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| Site Planning | Environmental Studies |
| Civil Engineering | Entitlements |
| Landscape Architecture | Construction Services |
| Land Surveying | 3D Visualization |
| Transportation Engineering | Laser Scanning |

January 10, 2022

Mr. Christopher Carthy, Chairman
and Members of the Planning Board
Town of North Castle
17 Bedford Road
Armonk, NY 10504

RE: JMC Project 20101
The Summit Club at Armonk Residential
Bedford Road (Route 22)
Town of North Castle, NY

Response to Town Comments Resubmission

Dear Chairman Carthy and Members of the Planning Board:

On behalf of the owner and applicant, Summit Club Partners, LLC, we are pleased to submit the following documents for your continued review of the Site Plan Application for the proposed residential development on The Summit Club residential property:

I. JMC Drawings:

| <u>Dwg. No.</u> | <u>Title</u> | <u>Rev. #/Date</u> | |
|-----------------|---|--------------------|------------|
| C-000 | Cover Sheet | 4 | 01/10/2022 |
| C-010 | Overall Existing Conditions Map | 4 | 01/10/2022 |
| C-011 | Existing Conditions Map (South) | 4 | 01/10/2022 |
| C-012 | Existing Conditions Map (North) | 4 | 01/10/2022 |
| C-020 | Site Demolition & Tree Removal Plan (South) | 4 | 01/10/2022 |
| C-021 | Site Demolition & Tree Removal Plan (North) | 4 | 01/10/2022 |
| C-022 | Site Tree Removal Table | 4 | 01/10/2022 |
| C-100A | Overall Site Layout and Phasing Plan | 4 | 01/10/2022 |
| C-100 | Site Layout Plan (South) | 4 | 01/10/2022 |
| C-101 | Site Layout Plan (North) | 4 | 01/10/2022 |
| C-102 | Fire Truck Access Plan | 4 | 01/10/2022 |
| C-200 | Site Grading Plan (South) | 4 | 01/10/2022 |
| C-201 | Site Grading Plan (North) | 4 | 01/10/2022 |
| C-202 | Road Profiles Plan | 4 | 01/10/2022 |
| C-300 | Site Utilities Plan (South) | 4 | 01/10/2022 |
| C-301 | Site Utilities Plan (North) | 4 | 01/10/2022 |
| C-302 | Sanitary Sewer Profiles | 4 | 01/10/2022 |
| C-303 | Water Main Profile | 4 | 01/10/2022 |
| C-304 | Storm Sewer Profiles | 4 | 01/10/2022 |

| | | | |
|-------|--|---|------------|
| C-400 | Site Erosion and Sediment Control Plan (South) | 4 | 01/10/2022 |
| C-401 | Site Erosion and Sediment Control Plan (North) | 4 | 01/10/2022 |
| C-402 | Erosion and Sediment Control/Phasing Notes | 4 | 01/10/2022 |
| C-900 | Construction Details | 4 | 01/10/2022 |
| C-901 | Construction Details | 4 | 01/10/2022 |
| C-902 | Construction Details | 4 | 01/10/2022 |
| C-903 | Construction Details | 4 | 01/10/2022 |
| C-904 | Construction Details | | 01/10/2022 |
| PSP-1 | Preliminary Subdivision Plat | 4 | 01/10/2022 |
| IPP-1 | Integrated Plot Plan | 4 | 01/10/2022 |

2. Granoff Architects Drawings:

| <u>Dwg. No.</u> | <u>Title</u> | | <u>Rev. #/Date</u> |
|------------------------------|---|---|--------------------|
| <u>Residences:</u> | | | |
| LS C | Cover-Landscape | 8 | 01/10/2022 |
| LS 100.0 | Overall Site Plan-Southern Development | 8 | 01/10/2022 |
| LS 100.1 | Overall Site Plan-Northern Development | 8 | 01/10/2022 |
| LS 101 | Amenities Side Site Plan-Landscape | 8 | 01/10/2022 |
| LS 102 | Main Entry Plan-Landscape | 8 | 01/10/2022 |
| LS 103 | Residential Side Site Plan-Landscape | 8 | 01/10/2022 |
| LS 104 | Residence Typical Plan-Landscape | 8 | 01/10/2022 |
| LS 105 | Detention Basin Planting Plan | 1 | 01/10/2022 |
| LS 106 | Water Treatment Area and Schematic Cottages | 8 | 01/10/2022 |
| <u>Clubhouse Building:</u> | | | |
| AS100 | Site Plan-Pool Terrace | | 01/10/2022 |
| A 100 | Floor Plan-Vault Level | | 01/10/2022 |
| A 101 | Floor Plan-Lower Level | | 01/10/2022 |
| A 102 | Floor Plan-Main Level | | 01/10/2022 |
| A 300 | Building Elevations | | 01/10/2022 |
| A 301 | Building Elevations | | 01/10/2022 |
| A 400 | Building Sections | | 01/10/2022 |
| <u>AFFH Building:</u> | | | |
| A 101 | AFFH Building 7- First Floor Plan | | 01/10/2022 |
| <u>Residential Building:</u> | | | |
| A 100 | Garage Floor Plan | | 01/11/2021 |

3. Apex Lighting Solutions Drawings:

| <u>Dwg. No.</u> | <u>Title</u> | | <u>Rev. #/Date</u> |
|-----------------|---|--|--------------------|
| SL-1A | Exterior Lighting Photometric Calculation | | 06/11/2021 |
| SL-2 | Exterior Lighting Photometric Calculation | | 06/14/2021 |

4. Razar Series LED Cutsheet/Specifications, prepared by U.S. Architectural Lighting.
5. "Preliminary Stormwater Pollution Prevention Plan", prepared by JMC, last revised 01/10/2022.
6. "50% Water Supply, Treatment and Distribution" plans, prepared by WSP USA, dated 11/23/2021.

The revisions depicted on the above noted plans reflect responses to comments outlined in the Town of North Castle Planning Department Memorandum, dated June 22, 2021 and Kellard Sessions Memorandum, dated June 24, 2021. For ease of review, we have repeated and enumerated the comments in italic print, followed by our responses:

Town of North Castle Planning Department, dated June 22, 2021

General Comments

Comment No. 1

The site plan has been revised to depict a proposed 58 space off-street parking lot adjacent to NY Route 22 and within the 100 foot R-2A buffer zone. Pursuant to Section 355-32.B of the Town Code, the intent of the Town Board is that a buffer area shall be used only for golf course uses, including access driveways and accessory parking, permitted in the R-2A District. In this case, the existing parking lot and proposed access drives were anticipated elements, but the proposed 58 space parking lot should not be constructed within the buffer. Any proposed new parking area shall be located outside of the buffer area. The area of the proposed off-street parking should be landscaped as anticipated during the environmental review of this project.

Response No. 1

The site plans have been revised to depict a more symmetrical 60 space off-street parking lot separated by a landscape island. The parking lot is necessary to help support the 600-membership capacity studied and approved in the EIS.

Comment No. 2

The site plan has been revised to depict a proposed contoured practice putting green adjacent to NY Route 22 and within the 100 foot R-2A buffer zone. Pursuant to Section 355-32.B of the Town Code, the intent of the Town Board is that a buffer area shall be used only for golf course uses, including access driveways and accessory parking, permitted in the R-2A District. In this case, existing golf uses were anticipated elements, but the proposed new practice green should not be constructed within the buffer. Any proposed new golf practice area shall be located outside of the buffer area. The area of the proposed practice green should be landscaped as anticipated during the environmental review of this project.

Response No. 2

The proposed practice putting green has been relocated outside of the 100-foot buffer area and is

now located in front of the proposed clubhouse/amenities building.

Comment No. 3

The site plan depicts new tennis courts (structures) in the “front yard” of the property. While the tennis courts have been removed from the buffer, it is recommended that the site plan be revised to eliminate the tennis courts from the front yard since this area serves as the gateway to the project. This area should be incorporated into a formal landscaping/screening plan.

Response No. 3

Six (6) tennis courts are proposed along the upper roadway accessing proposed building #7, four (4) of which were previously proposed in front of the proposed clubhouse/amenities building. Furthermore, substantial understory screening proposed along Rt 22, will serve to screen the courts from the road. Once bramble is removed to provide space for screening planting, a large number of existing trees are to be maintained, as shown on LSI00. Please refer to drawings and renderings prepared by Granoff Architects.

Comment No. 4

The site plan depicts a future road to provide access to the future tennis courts. It seems that a fully designed road would not be required for access. Perhaps, a golf cart path would be more appropriate for this area. If emergency vehicle access is required, a limited paved path with stabilized grasscrete shoulders may be more appropriate.

Response No. 4

The “future roadway” is now proposed and will be built to access proposed building #7 and the proposed tennis courts.

Comment No. 5

If the proposed future tennis courts or other active recreation area is not proposed to be constructed, it is recommended that a temporary use be established in this area. Consideration should be given to implementing the type of improvements constructed at the former MBIA property (path, walking trail, park like setting) that JMC prepared for that project.

Response No. 5

The “future tennis courts” are now proposed and will be built as an amenity for the development.

Comment No. 6

The site plan shall be revised to depict a lighting plan that conforms to the minimum requirements of Section 355-45.M of the Town Code. While a photometric plan and a lighting foundation detail was included, the plans do not depict details of the proposed light pole and fixture.

Response No. 6

A lighting plan conforming to the minimum requirements of Section 355-45.M of the Town code has been prepared and included in this submission. Please refer to drawings prepared by Apex Lighting Solutions. Cutsheets of the proposed light fixture have been included in this submission. Please refer to Razar Series LED specifications, prepared by U.S. Architectural Lighting.

Comment No. 7

The Applicant should indicate whether the tennis courts are proposed to be lit.

Response No. 7

The proposed tennis courts are not proposed to be lit at this time.

Comment No. 8

The site plan shall be revised to provide calculations demonstrating that the proposed units meet the minimum size requirements of the GCCFO Zoning District.

Response No. 8

Per Granoff Architects, The Residential Buildings have not changed since the last submission. The minimum one-bedroom unit is 900 sf per GCCFO zoning district and the proposed smallest unit is 2,377 sf (complies). The minimum two-bedroom unit is 1,100 sf per GCCFO zoning district and the proposed smallest unit is 2,997 sf (complies).

Comment No. 9

A golf course community must be affiliated with an adjoining membership club which is subject to a Town Board special use permit. Such affiliation shall be established by the requirement that, except for the initial developer/sponsor of the golf course community and successor sponsors/owners of units which have not yet been sold for owner occupancy, the owner of a dwelling unit of the golf course community must for the duration of ownership be a member (whether individually or as a family) of the membership club. The terms and conditions of membership shall be determined by the membership club.

The golf course of the affiliated membership club functions as the open space for the golf course community, and preservation of that open space is a basis for the permitted density of a golf course community. Accordingly, as a condition of site development plan approval of a golf course community, the affiliated membership club shall record in the Westchester County Clerk's office a permanent conservation easement pursuant to which the membership club agrees that the property on which the golf course is located shall be used solely as a golf course or as open space. The conservation easement shall be in form and substance reasonably acceptable to the Town Board and Town Attorney.

Response No. 9

The owners of the market-rate residences will all be members of The Summit Club which has reopened as of April, 2021. A Temporary Special Use Permit for the club/golf course operations, including the temporary facilities was approved by the Town Board on 02/24/2021.

The golf course lot is already subject to a recorded Declaration providing that the golf course lot can only be used as a golf course/club or as open space. The landowner, Summit Club Partners, LLC, will enter into a permanent conservation easement and file it with the Westchester County Clerk's office.

Comment No. 10

The Applicant will need to file the previously discussed conservation easement prior to the issuance of the first building permit.

Response No. 10

The comment is so noted.

Comment No. 11

The Applicant has indicated that chipping would be required during construction. At this time, the Applicant should provide details for review by the Planning Board.

Response No. 11

Based on the subsurface geotechnical exploration conducted at the property, rock is present in the proposed redevelopment area and blasting and/or chipping will be required to remove the rock during construction. All rock removal processes shall meet all applicable Town of North Castle. Additional information related to blasting and/or rock chipping in accordance with Town Code Chapter 22 "Blasting, Explosives and Chipping, last revised 11/18/2020 will be provided under separate cover.

Comment No. 12

The Applicant has indicated that rock processing would be proposed on the site. Additional details should be submitted regarding the proposed operation at this time.

Response No. 12

Based on the subsurface geotechnical exploration conducted at the property, rock is present in the proposed redevelopment area. Once removed, the rock will be processed on-site and used for construction. A note has been added to the site plans. All rock processing operations shall meet all applicable Town of North Castle and Westchester County Department of Health requirements. Additional information related to on-site rock processing in accordance with all local and WCDH requirements will be provided under separate cover.

Comment No. 13

The Town charges a fee in lieu of providing recreation facilities. The Applicant believes that sufficient on-site recreational facilities are being provided to meet the demand of the project, and has requested a credit be given for the market rate homes. The residents of the AFFH units would not be required to be members of the Club and would likely use Town recreation facilities. Therefore, the required \$1,000 per unit fee in lieu should be paid by the Applicant for the AFFH units.

Response No. 13

The comment is so noted.

Comment No. 14

The site plan depicts 39,204 square feet of Town-regulated steep slope disturbance.

Response No. 14

The current site plans have been revised to depict 25,700 square feet (0.59 acres) of Town-regulated steep slope disturbance.

Comment No. 15

The site plan depicts the removal of 266 Town-regulated trees.

Response No. 15

The current site plans have been revised to depict the removal of 225 Town-regulated trees.

Comment No. 16

The Applicant should update the Planning Board regarding the status of providing potable water to the project.

Response No. 16

The applicant has retained the services of a hydrogeologist/water system consultant who is currently working on the design of the new on-site water system. The new water system will be sized appropriately to accommodate the proposed residential, golf club and various amenities facilities. Please refer to drawings prepared by WSP USA.

Comment No. 17

The Applicant should update the Planning Board regarding the plans to improve the wastewater treatment plant.

Response No. 17

The applicant has retained the services of a wastewater treatment plant consultant who is currently working on the design of the new wastewater treatment plant. The new plant is currently proposed to be located within the existing wastewater treatment plant building and will be sized appropriately to accommodate the proposed residential, golf club and various amenities facilities.

Comment No. 18

The Applicant has stated that signage is proposed for the project. The location and design of the signage should be included on the plans at this time.

Response No. 18

New entrance signage will be proposed on the new decorative stone walls proposed at the entrance to the site. Additional signage will be provided throughout the interior of the development area as required (traffic control, directional, etc.). The design of the proposed entrance signage will be prepared and provided under separate cover.

Comment No. 19

Pursuant to Section 355-34.1(5)(b) of the Town Code, within multifamily developments, the affordable AFFH units shall be physically integrated into the design of the development and shall be distributed among various sizes (efficiency, one-, two-, three- and four-bedroom units) in the same proportion as all other units in the development. The plan should identify which units will be AFFH and demonstrate that the unit sizes are equally distributed among the various sizes.

Response No. 19

The applicant intends to build seven (7) AFFH units on-site (within building #7), which is 10% of the proposed sixty-six (66) market rate units.

Comment No. 20

Pursuant to Section 355-24.1.1 of the Town Code AFFH units shall be marketed in accordance with the Westchester County Fair Affordable Housing Affirmative Marketing Plan.

Response No. 20

The comment is so noted.

Comment No. 21

Pursuant to Section 355-24-1.2 of the Town Code, the maximum monthly rent for an affordable AFFH unit and the maximum gross sales price for an AFAH unit shall be established in accordance with US Department of Housing and Urban Development guidelines as published in the current edition of the Westchester County Area Median Income AMI Sales Rent Limits available from the County of Westchester.

Response No. 21

The comment is so noted.

Comment No. 22

Pursuant to Section 355-24-1.3 of the Town Code, units designated as affordable AFFH units shall remain affordable for a minimum of 50 years from date of initial certificate of occupancy for rental properties and from date of original sale for ownership units.

Response No. 22

The comment is so noted.

Comment No. 23

Pursuant to Section 355-24-1.4 of the Town Code, a property containing any affordable AFFH units shall be restricted using a mechanism such as declaration of restrictive covenants in recordable form acceptable to the Town which shall ensure that the affordable AFFH unit shall remain subject to affordable regulations for the minimum 50-year period of affordability. The covenants shall require that the unit be the primary residence of the resident household selected to occupy the unit upon approval such declaration shall be recorded against the property containing the affordable AFFH unit prior to the issuance of a Certificate of Occupancy for the development.

Response No. 23

The comment is so noted. The applicant will comply. Section 1d of the 12/11/2019 zoning declaration applies and specifies the conditions for issuance of Certificates of Occupancy.

Comment No. 24

Pursuant to Section 355-34.1(6)(a) of the Town Code the Applicant shall submit an exhibit demonstrating that the proposed AFFH units meet the minimum size requirements and are not less than 80% of the of average floor area of market rate units.

Response No. 24

Per Granoff Architects, See AFFH Building 7-First Floor Plan (A101). The revised chart shows the min. AFFH unit sizes and the proposed. The minimum one-bedroom is 700 sf, and 790 sf is proposed (complies). The minimum two-bedroom is 900 sf, and 1,330 sf is proposed (complies).

Kellard Sessions Memorandum, dated June 24, 2021

Cover Sheet

Comment No. 1

Parking space calculations do not appear to comply fully with the regulations. The additional ½ space per bedroom is only required for bedrooms in excess of the initial two (2) bedrooms per unit.

Response No. 1

All required and provided parking for the various uses of the development has been calculated in accordance with Town of North Castle Zoning Code Section 355-57 “Schedule of Off-Street Parking Requirements”.

Site Plans

Comment No. 2

The applicant should provide the design for the retaining wall (approximately 8 ft high) located along the cul-de-sac of Road B and driveway to Building #6. Proposed finishes should be provided for the Planning Board’s consideration.

Response No. 2

The proposed grading has been modified in this area, which now proposes a 2.5:1 stabilized slope and eliminates the proposed retaining wall. As indicated on the site plans, if a rock cut slope (1:12) is feasible to stabilize the area based on further geotechnical exploration then the finish will be natural rock. Slope stabilization areas have been hatched accordingly and a detail for slope stabilization has been included on the site plans.

Comment No. 3

The applicant should provide the design for the decorative stone wall along Bedford Road frontage.

Response No. 3

Per Granoff Architects, See detail 2 on Sheet LSI00.1 on Granoff Architects Landscape Drawing Set. Sheet is labeled “Overall Site Plan-Northern Development”

Comment No. 4

Traffic signage is not provided in front of the amenities building or proposed parking lot in front of the building.

Response No. 4

Traffic signage for the clubhouse/amenities building and associated parking lots has been depicted on the site plans.

Comment No. 5

Permeable asphalt pavement is proposed within the new parking lot in front of the amenities building. Soil test data should be provided.

Response No. 5

Soil test data (deep holes and infiltration testing) shall be performed for the permeable asphalt pavement area once the Planning Board is comfortable with the design of this parking area.

Comment No. 6

Pervious pavers are proposed within the parking courts in front of the residential buildings. Soil test data should be provided.

Response No. 6

Pervious pavers are no longer proposed at the parking courts in the front of each lower residential building. At this time, the applicant is exploring decorative pavers or asphalt pavement options in these areas. A detail of a decorative paver option for the parking courts and the main entrance has been included on the site plans.

Comment No. 7

Setbacks should be provided along internal property boundaries.

Response No. 7

In accordance with section 355-32D. "Golf Course Community Floating Overlay District: Lot, dimensional and parking requirements for a golf course community": "All lot, dimensional, and parking requirements in this section, including but not limited to maximum density, maximum building coverage, minimum yards and required off-street parking, shall apply to the land area in the GCCFO District as a whole, notwithstanding that the golf course community site may be comprised of more than one lot and/or parcel, or that the site may from time to time be subdivided or resubdivided, and all determinations and calculations relating to such requirements shall be made with reference to the boundaries of the entire land area in the GCCFO District and as though such area is a single lot (as defined in § 355-4 of this chapter), even though it is or will be comprised of more than one lot and/or parcel." That being said, dimensions from proposed structures to the proposed internal subdivision lines have been depicted on the plans.

Comment No. 8

Sidewalk width should be provided on the site plans.

Response No. 8

The widths of the proposed sidewalks have been dimensions on the site plans.

Comment No. 9

The applicant should examine the site plan and provide all required dimensions required to layout and construct roadways and parking areas. This should include dimensions, radii, tangents, etc., along roadway center lines, intersections and parking areas.

Response No. 9

Appropriate dimensions have been added to the site plans.

Comment No. 10

Below grade parking layouts should be provided for verification of the parking provided.

Response No. 10

Per Granoff Architects, Residential buildings 1-6 have 24 below grade parking spaces per building. Residential Plan A100 "Garage Floor Plan" dated 1-11-21 ARB Submission is re-submitted for convenience to illustrate this parking.

Comment No. 11

A Highway Work Permit and Driveway Access Permit will be required from the New York State Department of Transportation (NYSDOT).

Response No. 11

The applicant's Traffic Consultant shall prepare applications to the New York State Department of Transportation (NYSDOT) for all required permitting associated with work within the Bedford Road (NY-22) right-of-way.

Comment No. 12

The roadway center line radius for Road "A" is less than the Town regulations for roadways. We do not consider this portion of Road "A" west of the traffic circle to be a roadway, but a driveway servicing the amenities building. Considering the speed limit and grades in front of the building, we see no issue with the proposed radius.

Response No. 12

The comment is so noted.

Fire Truck Plan

Comment No. 13

The applicant has provided fire truck turning movements along proposed roadways and driveways through the project. The only apparent conflict is at the end of Road "A" where apparatus exiting the parking lot traverses over the three (3) parking spaces east of the driveway. The applicant should re-examine this turning movement and show whether the movement can be accomplished when vehicles are parked within these spaces. We would recommend that the plan be referred to the Armonk Fire Department for review.

Response No. 13

The fire truck turning analysis has been revised to avoid conflict with parking spaces.

Grading Plan

Comment No. 14

We would suggest the applicant re-examine the driveway grades where the driveway to the cart shed meets the amenity building driveway. Also, proposed grading at the southwest corner of the proposed tennis courts may require a wall.

Response No. 14

The proposed grading in this area has been revised accordingly.

Comment No. 15

Grading within the lawn area in front of Buildings #1 thru #4 and the northeast portion of the amenities building require some additional attention, contours appear to be missing.

Response No. 15

The proposed grading in this area has been revised accordingly.

Comment No. 16

Grading of the driveway and area between the pool deck and putting green behind Building #1 appear to also need some attention.

Response No. 16

The proposed grading in this area has been revised accordingly.

Comment No. 17

The embankment making up the detention pond is proposed at 1 vertical on 2.5 horizontal slope (1V:2.5H). The New York State Stormwater Management Design Manual (NYSSMDM) recommends a maximum slope of 1V:3H. It appears slope stabilization is being proposed, however, we could not find this additional detail. The applicant should consider revising the grading.

Response No. 17

Slope stabilization has been proposed for the areas of the 2.5:1 slopes adjacent to the detention pond. Slope stabilization areas have been hatched accordingly and a detail for slope stabilization has been included on the site plans.

Comment No. 18

Please provide a detail of the curb cut at the NYSDOT roadway. We have concern that the location and elevation of catch basins in relationship to the existing grades at Route 22 could result in ponding of stormwater runoff. Please address.

Response No. 18

A curb ending meeting existing pavement has been proposed at the left side (exit lane) of the site driveway to continue to allow runoff to discharge into the existing catch basin within Bedford Road (NY-22).

Comment No. 19

The proposed tennis courts are graded at a slope across their width of less than 1%. This may result in ponding and therefore, a different grading plan for the courts may be proposed at the time of their construction. We would recommend that the drainage system inverts at the tennis courts be established at an elevation, which would permit drainage at the far end of the court be collected should final grading vary from the proposed grades shown.

Response No. 19

The grading for the proposed tennis courts has been revised to depict 1% slopes across the widths and the inverts of the slotted drains have been adjusted to accommodate for final grading during construction.

Comment No. 20

The applicant should prepare a cut and fill analysis for each phase of construction so that there is an understanding of the overall requirement for import or export of materials and how materials will be handled between phases of construction, i.e., if there is surplus material for Phase 1, it is assumed it would be used to off-set fill requirements for Phase 2, etc.

Response No. 20

A cut and fill analysis for each phase of construction shall be prepared and submitted under separate cover.

Roadway Profiles

Comment No. 21

The proposed grade at Road "A" between Station 0+00 and 1+85.44 is less than the Town's minimum grade of 1.5%.

Response No. 21

The proposed grade at Road "A" has been revised accordingly.

Comment No. 22

The vertical curve at Road "B" Station 9+00.00 should be increased to a minimum of 160 feet in length to meet the minimum K value of 20 for crest curve and at Station 10+34.66 to 90 feet in length to meet the minimum K value of 15 for sag curves to comply with Town standards.

Response No. 22

The proposed vertical curve at Road "B" has been revised accordingly.

Comment No. 23

The vertical curve at Road "C" Station 0+50.50 should be increased to 105 feet in length to meet the minimum required K value of 15 to comply with Town standards.

Response No. 23

The proposed vertical curve at Road "C" has been revised accordingly.

Preliminary Utility Plans

Comment No. 24

Please clarify how the existing drainage system within the NYSDOT right-of-way at the proposed entrance functions and where it discharges.

Response No. 24

A curb ending meeting existing pavement has been proposed at the left side (exit lane) of the site driveway to continue to allow runoff to discharge into the existing catch basin within Bedford Road

(NY-22).

Comment No 25

The applicant is proposing a new water distribution system to service the project. Fire hydrants are proposed at various locations throughout the project. The applicant is proposing hydrants on the far side of the sidewalk approximately 10 feet from the roadway. Hydrants are typically installed within the grass strip between the roadway and sidewalk approximately two (2) feet off the roadway. This makes for easier access and clearing of snow. A hydrant is also proposed in front of the amenities building. We would suggest the hydrant layout be forwarded to the Armonk Fire Department for their review and comment.

Response No. 25

The proposed fire hydrants have been relocated closer to the proposed roadways (within the grassed strip between the roadway and sidewalk), 1'-6" from the face of curb, as indicated on the hydrant detail.

Comment No. 26

The proposed water distribution and sanitary sewer collection systems will require approval by the Westchester County health Department (WCHD).

Response No. 26

The comment is so noted. The applicant has retained the services of a hydrogeologist/water system consultant who is currently working on the design of the new on-site water system. The new water system will be sized appropriately to accommodate the proposed residential, golf club and various amenities facilities. Furthermore, the applicant has retained the services of a wastewater treatment plant consultant who is currently working on the design of the new wastewater treatment plant. The new plant is currently proposed to be located within the existing wastewater treatment plant building and will be sized appropriately to accommodate the proposed residential, golf club and various amenities facilities.

Comment No. 27

Individual domestic and fire service mains are proposed into each of the six (6) residential structures and the amenities building. Upon determination of the size and type of the service main, such information should be included on the site plans.

Response No. 27

The comment is so noted. The applicant is in the process of retaining an MEP engineer to assist with the design of the domestic and fire services.

Comment No. 28

The water main does not appear to have sufficient cover over the pipe between Station 1+00 and 4+00. Is

fire service and domestic water service required to the cart shed and if so, will it be a separate service line or be fed through the amenities building?

Response No. 28

The proposed water main has been revised to provide sufficient cover (minimum 4'). As indicated above, the applicant is in the process of retaining an MEP engineer to assist with the design of the domestic and fire services.

Comment No. 29

The applicant is proposing a new sewer collection system to service the project. The sewer main between the amenities building and sewer plant is proposed within the existing sewer trench. A separate branch will service the six (6) residential buildings from the rear of the buildings. Individual building services are proposed to each building. Also, a gravity service main is proposed to the gate house. We have provided preliminary comment related to the layout below.

Response No. 29

The comment is so noted.

Comment No. 30

The four (4) inch service pipe to the gate house appears to be proposed at a depth, which is significantly lower than what may be necessary (16 feet deep at SMH 4-1B). This excessive depth could be due a rim elevation at SMH 4-2B, which is ten (10) feet lower than the proposed grade. Please re-examine the design, it appears the sewer service could be raised significantly.

Response No. 30

The sanitary sewer and associated grading have been revised to reduce the proposed overall depth.

Comment No. 31

The sewer main within the rear of the residential buildings also appears to be excessively deep, with significant portions of the main in excess of 20 feet deep and a manhole at 22 feet deep. The depth of installation could be reduced significantly with some minor changes to the grading plan at SMH 15 and 13 and also within a short segment of the main between SMH's #11 and #12. Also, if the sewer main were constructed between manholes BMH #3 and SMH #7 instead of SMH #4 and SMH #7, further reductions of depth may be achieved.

Response No. 31

The sanitary sewer and associated grading have been revised to reduce the proposed overall depth.

Comment No. 32

There are no stormwater collection or treatment practices proposed on the plans for runoff from the amenities building, new tennis courts in front of the amenities building, driveway, existing parking lot or pool deck. The applicant should explain their intent on addressing the runoff.

Response No. 32

The west portion of the work area has been designed to function like existing conditions. The clubhouse/amenities building/pool area are replacing existing impervious area, while the existing parking lot remains unchanged. Similar to existing conditions, stormwater runoff from this area will travel overland and pass through several existing ponds before exiting the site to the north. The proposed overflow parking area will be a pervious pavement to allow the stormwater to infiltrate at a similar rate to existing conditions. As indicated above, soil testing (deep holes and infiltration testing) shall be performed for the permeable asphalt pavement area once the Planning Board is comfortable with the design of this parking area.

Comment No. 33

Drainage Manhole DMH-8A-1-1 is proposed at a depth of 20 feet. A shallow manhole located around Station 1+50 would permit reducing the depth to 3-4 feet for DMH-8A-1-1. Also, manhole DMH-4B-4 is 12 feet deep. This manhole could be significantly reduced with no additional improvements.

Response No. 33

The configuration of the proposed tennis courts has been redesigned and the grading and drainage system has been revised accordingly.

Comment No. 34

As previously mentioned, the inverts at DMH-8A-1-1 and DMH 4B-4 should be examined to assure a depth sufficient to collect runoff from the opposite side of the tennis court should an alternate grading scheme be implemented.

Response No. 34

The configuration of the proposed tennis courts has been redesigned and the grading and drainage system has been revised accordingly.

Comment No. 35

Roof discharge locations at Buildings 1-6 should be provided.

Response No. 35

Assumed locations of roof drain leaders have been depicted on the site plans connecting to the proposed stormwater system.

Comment No. 36

The plan illustrates catch basins and storm piping located within the proposed future road. The plan should clarify whether it is proposed to install these improvements as part of this plan or only if the future road is to be constructed.

Response No. 36

As indicated above, the “future roadway” is now proposed and will be built to access proposed building #7 and the proposed tennis courts and the stormwater infrastructure will now be installed during the construction of the roadway.

Utility Profiles

Comment No. 37

Crushed stone or gravel should be shown on the sewer profiles and water main profiles between the existing grade and the main when the mains are located within areas of fill.

Response No. 37

The profiles have been revised to depict crushed stone or gravel for the sewer and water mains between the existing grade and the mains when the mains are located within areas of fill.

Comment No. 38

The applicant should check drainage profiles for adequate cover over pipes. In particular, downstream of DMH-5B, vicinity DMH-5A, WQS-4A, TD-4B-5-1, between WQS-4B and CI-4B-1, CI-4B-1 and DMH-4B-2 and DMH-8B.

Response No. 38

The profiles have been revised to provide adequate cover over piping.

Comment No. 39

The profiles should illustrate all utility crossings to demonstrate that minimum required separation distances to sewer and water mains are provided.

Response No. 39

The profiles have been revised to depict all utility crossings to demonstrate the minimum separation distance to sewer and water mains are provided.

Construction Details

Comment No. 40

We would prefer all drainage structures to be precast concrete. Solid concrete block structures should only be used when precast options are not available.

Response No. 40

The drainage structure details have been revised accordingly.

Comment No. 41

Sidewalk thickness should be 5" minimum.

Response No. 41

The concrete sidewalk detail has been revised accordingly.

Comment No. 42

Heavy duty pavement should include a 4" thick binder course.

Response No. 42

The heavy-duty pavement detail has been revised accordingly.

Comment No. 43

Provide details for:

- 4" mountable curb
- Granite cobblestone pavers
- Porous pavers
- Tennis courts

Response No. 43

The 4" mountable curb detail and decorative pavers detail have been added to the Construction Details drawings. A detail of the tennis courts shall be provided by a company specializing in tennis court construction and provided under separate cover.

SWPPP

Comment No. 44

The applicant has submitted a Preliminary Stormwater Pollution Prevention Plan (SWPPP) for review and approval. Our office will continue to review the SWPPP along with the stormwater treatment design, pipe sizing and erosion and sediment plan as the project develops. We shall forward our preliminary comments on the SWPPP.

Response No. 44

The comment is so noted.

Comment No. 45

We note that the project proposes approximately 18 acres of overall disturbance. The plans indicate three (3) phases of construction. The Erosion and Sediment Control Plan shall clearly identify the phases of construction, total disturbance area for each phase, and the measures required to control erosion and sediment for each phase. Because disturbance for a particular phase will exceed five (5) acres, the owner has acknowledged that he will be required to perform increased inspections throughout construction.

Response No. 45

The Erosion and Sediment Control Plan depicts the three (3) phases of construction on sheets C-400 and C-401. The sequence of construction on sheet C-402 includes approximate disturbance areas for each phase as well as the measures required to control each phase. The SWPPP text contains instructions to increase the frequency of inspections when the disturbance is greater than five (5) acres upon approval of the waiver.

Comment No. 46

The Erosion and Sediment Control Plan should include additional measures such as diversion swales and water bars to direct stormwater runoff to the proposed temporary sediment basins. Due to the level of earthwork and grading proposed behind Buildings #4 thru #6, we recommend that an additional temporary sediment basin be constructed downgrade of this development area.

Response No. 46

The Erosion and Sediment Control Plan depicts temporary swales directing runoff into the proposed temporary sediment basins. Due to the lack of space behind Buildings #4 thru #6, a temporary swale will be placed directing the runoff to the temporary sediment basin. Buildings #1 thru #3 will be included within a separate phase to alleviate the strain on the basin.

We trust the attached documents and above responses are sufficient for your review and we respectfully request placement on the January 24th Planning Board agenda. Thank you for your consideration.

If you have any questions or require additional information, please do not hesitate to contact our office at (914) 273-5225.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC



Paul R. Sysak, RLA
Project Manager

cc: Adam R. Kaufman, AICP
Joseph M. Cermele, PE, CFM
Roland Baroni, Esq.
Jeffrey B. Mendell
Mark P. Weingarten, Esq.
Peter J. Wise, Esq.
Rich S. Granoff, AIA, LEED AP
Kenneth S. Andersen, AIA

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SITE PLAN APPROVAL DRAWINGS

THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)

TAX MAP SECTION 101.02 | BLOCK 1 | LOT 28.1 & 28.2
WESTCHESTER COUNTY

568 & 570 BEDFORD ROAD (NY-22)

 ARMONK, NY 10504

JMC Drawing List:

- C-000 COVER SHEET
- C-010 OVERALL EXISTING CONDITIONS MAP
- C-011 EXISTING CONDITIONS MAP (SOUTH)
- C-012 EXISTING CONDITIONS MAP (NORTH)
- C-020 SITE DEMOLITION & TREE REMOVAL PLAN (SOUTH)
- C-021 SITE DEMOLITION & TREE REMOVAL PLAN (NORTH)
- C-022 SITE TREE REMOVAL TABLE
- C-100A OVERALL SITE LAYOUT AND PHASING PLAN
- C-100 SITE LAYOUT PLAN (SOUTH)
- C-101 SITE LAYOUT PLAN (NORTH)
- C-102 FIRE TRUCK ACCESS PLAN
- C-200 SITE GRADING PLAN (SOUTH)
- C-201 SITE GRADING PLAN (NORTH)
- C-202 ROAD PROFILES PLAN
- C-300 SITE PRELIMINARY UTILITIES PLAN (SOUTH)
- C-301 SITE PRELIMINARY UTILITIES PLAN (NORTH)
- C-302 SANITARY SEWER PROFILES
- C-303 WATER MAIN PROFILES
- C-304 STORM SEWER PROFILES
- C-400 SITE EROSION & SEDIMENT CONTROL PLAN (SOUTH)
- C-401 SITE EROSION & SEDIMENT CONTROL PLAN (NORTH)
- C-402 EROSION & SEDIMENT CONTROL/PHASING NOTES
- C-900 CONSTRUCTION DETAILS
- C-901 CONSTRUCTION DETAILS
- C-902 CONSTRUCTION DETAILS
- C-903 CONSTRUCTION DETAILS
- C-904 CONSTRUCTION DETAILS
- PSP-1 PRELIMINARY SUBDIVISION PLAN (NO JURISDICTION SUBDIVISION)
- IPP-1 INTEGRATED PLOT PLAN (NO JURISDICTION SUBDIVISION)

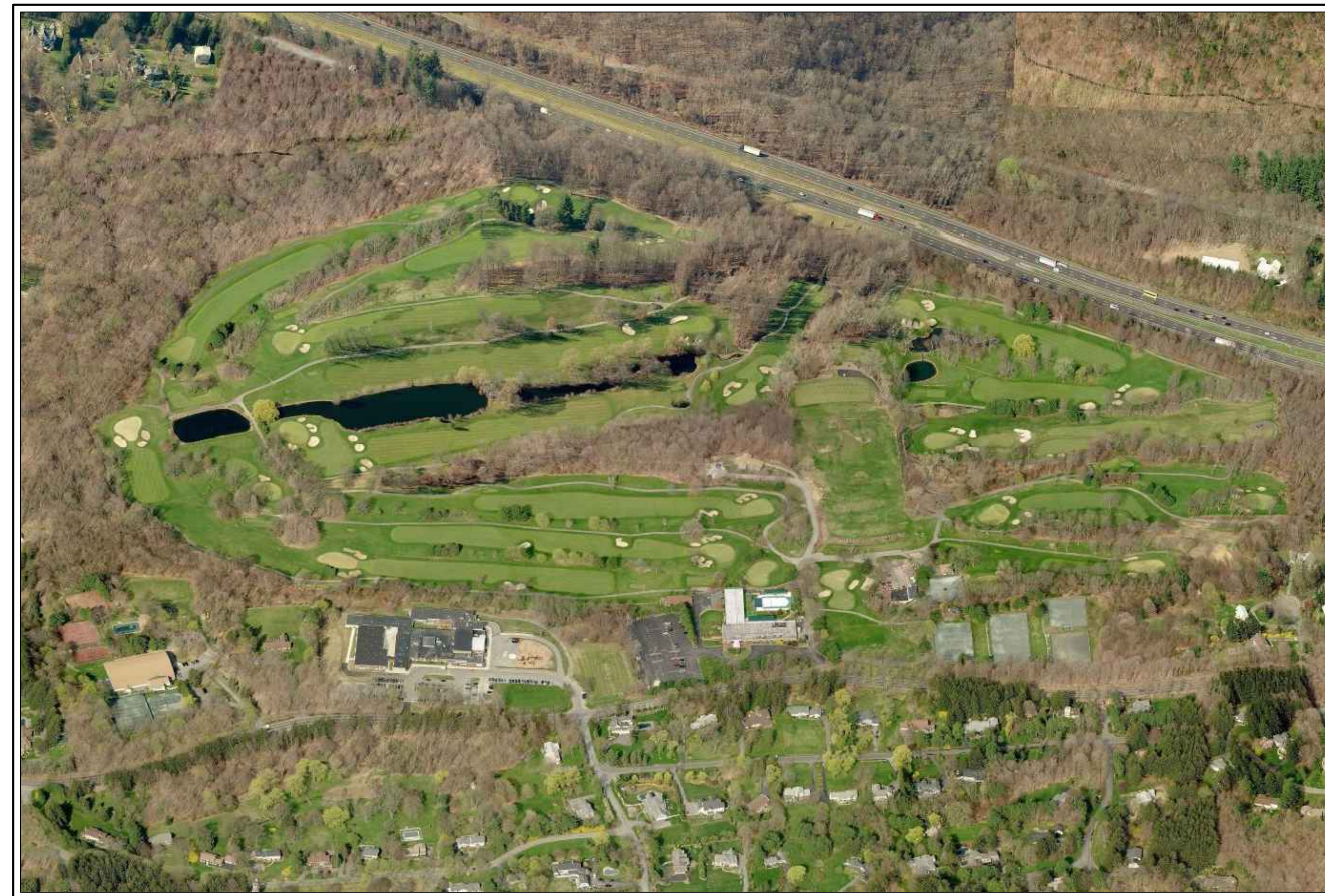
Applicant/Owner:
SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504
(914) 391-2900

Architect/Landscape Architect:
GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06830
(203) 625-9460

Attorney:
DELBELLO DONNELLAN WEINGARTEN WISE & WIEDERKEHR, LLP
THE GATEWAY BUILDING
ONE NORTH LEXINGTON AVENUE
WHITE PLAINS, NY 10601
(914) 681-0200

Lighting Consultant:
APEX LIGHTING SOLUTIONS
20-30 BEAVER ROAD
WETHERSFIELD, CT 06109
(860) 632-8766

Site Planner, Civil Engineer, Surveyor:
JMC PLANNING ENGINEERING LANDSCAPE ARCHITECTURE & LAND SURVEYING PLLC
120 BEDFORD ROAD
ARMONK, NY 10504
(914) 273-5225



| TABLE OF LAND USE | | | | | |
|--|----------------------------------|-----------------------------------|-------------|----------------------------------|----------------------------------|
| SECTION 101.02, BLOCK 1, LOT 28.1 & 28.2 (2/08/7,C1A) | | | | | |
| ZONES: "R-2A" - "ONE FAMILY RESIDENCE DISTRICT (2 ACRES)" | | | | | |
| "GCCFO" - "GOLF COURSE COMMUNITY FLOATING OVERLAY DISTRICT" | | | | | |
| PROPOSED USE: GOLF COURSE COMMUNITY | | | | | |
| FIRE/AMBULANCE DISTRICT: ARMONK FIRE DEPARTMENT (NORTH CASTLE DISTRICT #2) | | | | | |
| WATER DISTRICT: NORTH CASTLE WATER DISTRICT #2 | | | | | |
| SCHOOL DISTRICT: BYRAM HILLS CENTRAL SCHOOL DISTRICT | | | | | |
| SEWER DISTRICT: ON-SITE SEWAGE TREATMENT PLANT (SPDES PERMIT) | | | | | |
| DESCRIPTION | REQUIRED/ PERMITTED (R-2A) | REQUIRED/ PERMITTED (GCCFO) | EXISTING | PROPOSED/ PROVIDED (LOT 1) | PROPOSED/ PROVIDED (LOT 2) |
| LOT AREA (ACRES) | 2.0 MIN. (1) | SEE NOTE 1 | #156.30 (5) | #129.82 | #26.48 |
| LOT STREET FRONTAGE (FEET) | 150 MIN. (1) | SEE NOTE 1 | 1,519.70 | 1,519.70 (1) | 1,519.70 (1) |
| LOT WIDTH (FEET) | 150 MIN. (1) | SEE NOTE 1 | #2,300 | #2,300 (1) | #2,300 (1) |
| LOT DEPTH (FEET) | 150 MIN. (1) | SEE NOTE 1 | #1,805 | #1,805 (1) | #1,805 (1) |
| PRINCIPAL BUILDING MINIMUM YARDS (FEET) | | | | | |
| FRONT | 50 (1) | SEE NOTE 1 | #123.1 | #294.00 (1) | #267.61 (1) |
| SIDE | 30 (1) | SEE NOTE 1 | #287.8 | #84.41' (1) | #104.93 (1) |
| REAR | 50 (1) | SEE NOTE 1 | #1,645.5 | #1,733.58 (1) | #881.30 (1) |
| MAXIMUM BUILDING COVERAGE (%) | 8 (1) | 3.5 (1) | 0.72 (6) | 0.16 (1)(7) | 1.50 (1)(7) |
| MAXIMUM BUILDING HEIGHT (STORIES / FEET) | NA / 30 | 3 / 39.5 (2) | 3 / < 39.5 | 3 / < 39.5 | 3 / < 39.5 |
| PARKING SPACES | | | | | |
| STANDARD PARKING SPACES | 2 PER DWELLING UNIT | SEE NOTE 3 | - | 176 | 172 |
| ACCESSIBLE PARKING SPACES | N/A | - | - | 7 | 13 |
| TOTAL PARKING SPACES | 2 PER DWELLING UNIT | - | 180 | 181 | 186 |
| LOADING SPACES | N/A | SEE NOTE 4 | - | 2 | - |

NOTES:

- IN THE GCCFO DISTRICT, THE LOT, DIMENSIONAL, AND PARKING REQUIREMENTS FOR A GOLF COURSE COMMUNITY IN THIS SECTION SHALL SUPERSEDE THE SCHEDULE OF RESIDENCE DISTRICT REGULATIONS (§ 355-21 OF THIS CHAPTER), LOT SIZE, LOT CONFIGURATION AND OTHER LOT DIMENSIONAL REQUIREMENTS WITHIN A GCCFO DISTRICT SHALL BE DETERMINED BY THE PLANNING BOARD IN CONJUNCTION WITH SUBDIVISION APPROVAL. LOT SIZE, LOT CONFIGURATION AND OTHER LOT DIMENSIONAL REQUIREMENTS OF LOTS WITHIN A GCCFO DISTRICT SHALL BE BASED UPON THE PLANNING BOARD'S CONSIDERATION OF THE CHARACTER OF THE NEIGHBORHOOD IN WHICH THE GCCFO DISTRICT WILL BE LOCATED; THE GCCFO DISTRICT'S RELATIONSHIP TO ADJACENT DISTRICTS, PROPERTIES AND LAND USES; THE GCCFO DISTRICT'S TOPOGRAPHY; AND SUCH OTHER FACTORS THE PLANNING BOARD MAY DETERMINE TO BE APPROPRIATE. THE LOTS AND/OR PARCELS THAT TOGETHER COMPOSE A GOLF COURSE COMMUNITY SITE ARE NOT REQUIRED TO BE CONTIGUOUS, PROVIDED THAT EACH SUCH LOT AND/OR PARCEL ADJOINS THE AFFILIATED MEMBERSHIP CLUB. ALL LOT, DIMENSIONAL, AND PARKING REQUIREMENTS IN THIS SECTION, INCLUDING BUT NOT LIMITED TO MAXIMUM DENSITY, MAXIMUM BUILDING COVERAGE, MINIMUM YARDS AND REQUIRED OFF-STREET PARKING, SHALL APPLY TO THE LAND AREA IN THE GCCFO DISTRICT AS A WHOLE. NOTWITHSTANDING THAT THE GOLF COURSE COMMUNITY SITE MAY BE COMPRISED OF MORE THAN ONE LOT AND/OR PARCEL, OR THAT THE SITE MAY FROM TIME TO TIME BE SUBDIVIDED OR RESUBDIVIDED, AND ALL DETERMINATIONS AND CALCULATIONS RELATING TO SUCH REQUIREMENTS SHALL BE MADE WITH REFERENCE TO THE BOUNDARIES OF THE ENTIRE LAND AREA IN THE GCCFO DISTRICT AND AS THOUGH SUCH AREA IS A SINGLE LOT (AS DEFINED IN § 355-4 OF THIS CHAPTER), EVEN THOUGH IT IS OR WILL BE COMPRISED OF MORE THAN ONE LOT AND/OR PARCEL.
- THE MAXIMUM BUILDING HEIGHT SHALL BE THREE STORIES AND 39 1/2 FEET TO THE MEAN LEVEL OF THE PRIMARY ROOF, MEASURED FROM THE LEVEL OF THE FINISHED GRADE AT THE MAIN ENTRY TO THE BUILDING.
- RESIDENTIAL PARKING CALCULATIONS**
MARKET-RATE DWELLING UNITS REQUIREMENT: "OTHER MULTIFAMILY DWELLING UNITS": 2 FOR EACH DWELLING UNIT, PLUS 1/2 FOR EACH BEDROOM IN EXCESS OF 2, PLUS 10% VISITOR PARKING.
66 TOTAL MARKET-RATE DWELLING UNITS: (46) 2-BEDROOM UNITS, (16) 3-BEDROOM UNITS, (2) 4-BEDROOM UNITS
66 (DWELLING UNITS) X 2 = 132 PARKING SPACES
16 (3-BEDROOM UNITS) X 5 = 80 PARKING SPACES
2 (4-BEDROOM UNITS) X 1 = 2 PARKING SPACES
10% VISITOR PARKING: 142 X .10 = 14.2 (15) PARKING SPACES
TOTAL REQUIRED PARKING FOR MARKET-RATE UNITS: 157 PARKING SPACES
AFFH DWELLING UNITS REQUIREMENT: "MIDDLE-INCOME DWELLING UNITS AND AFFH UNITS": 1 FOR EACH DWELLING UNIT, PLUS 1/2 FOR EACH BEDROOM.
7 TOTAL AFFH DWELLING UNITS: (46) 2-BEDROOM UNITS, (16) 3-BEDROOM UNITS, (2) 4-BEDROOM UNITS
7 (DWELLING UNITS) X 1 = 7 PARKING SPACES
11 (TOTAL BEDROOMS) X 5 = 55 (6) PARKING SPACES
TOTAL REQUIRED PARKING FOR MARKET-RATE UNITS: 13 PARKING SPACES

PROPOSED BUILDING AREA SUMMARY (GROSS FLOOR AREA):

AMENITIES BUILDING:
FIRST FLOOR: 6,256 SF
LOWER LEVEL: 7,000 SF (5,000 SF FINISHED + 2,000 SF UNFINISHED)
PRO SHOP: 1,188 SF
TOTAL FOR AMENITIES BUILDING: 13,444 SF

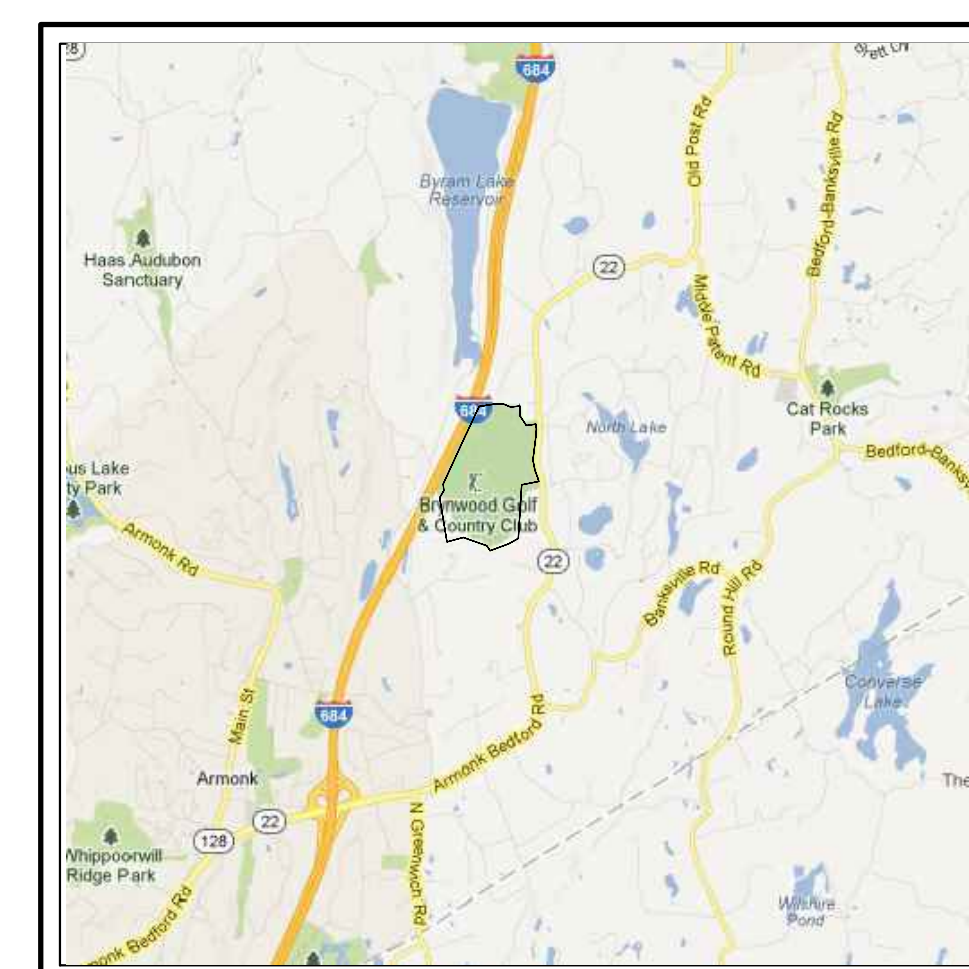
RESIDENTIAL BUILDINGS (#1-6):
EACH CONDO FLOOR: 12,350 S.F. (3 STORIES TOTAL = 37,050 S.F.)
EACH GARAGE PARKING LEVEL: 16,605 SF
TOTAL PER BUILDING (#1-6): 53,655 SF
TOTAL FOR ALL RESIDENTIAL BUILDINGS (#1-6): 321,930 SF

RESIDENTIAL UNIT PHASING DECLARATION:

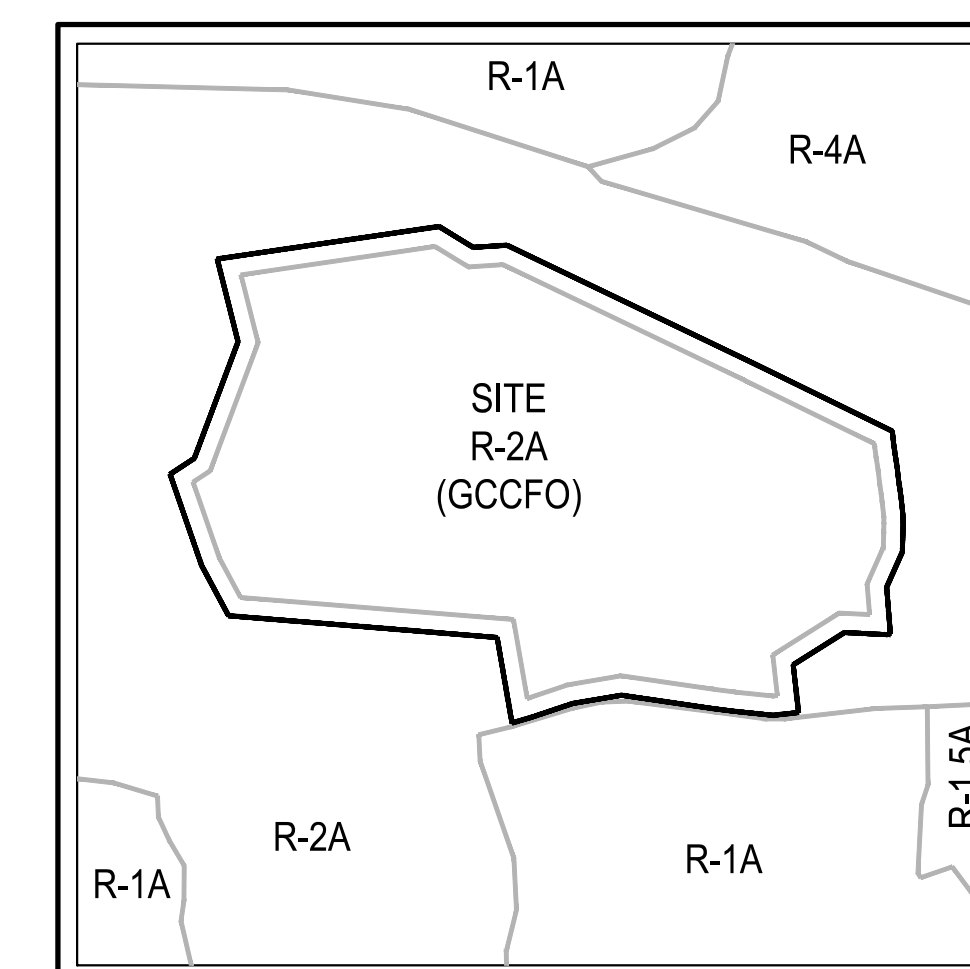
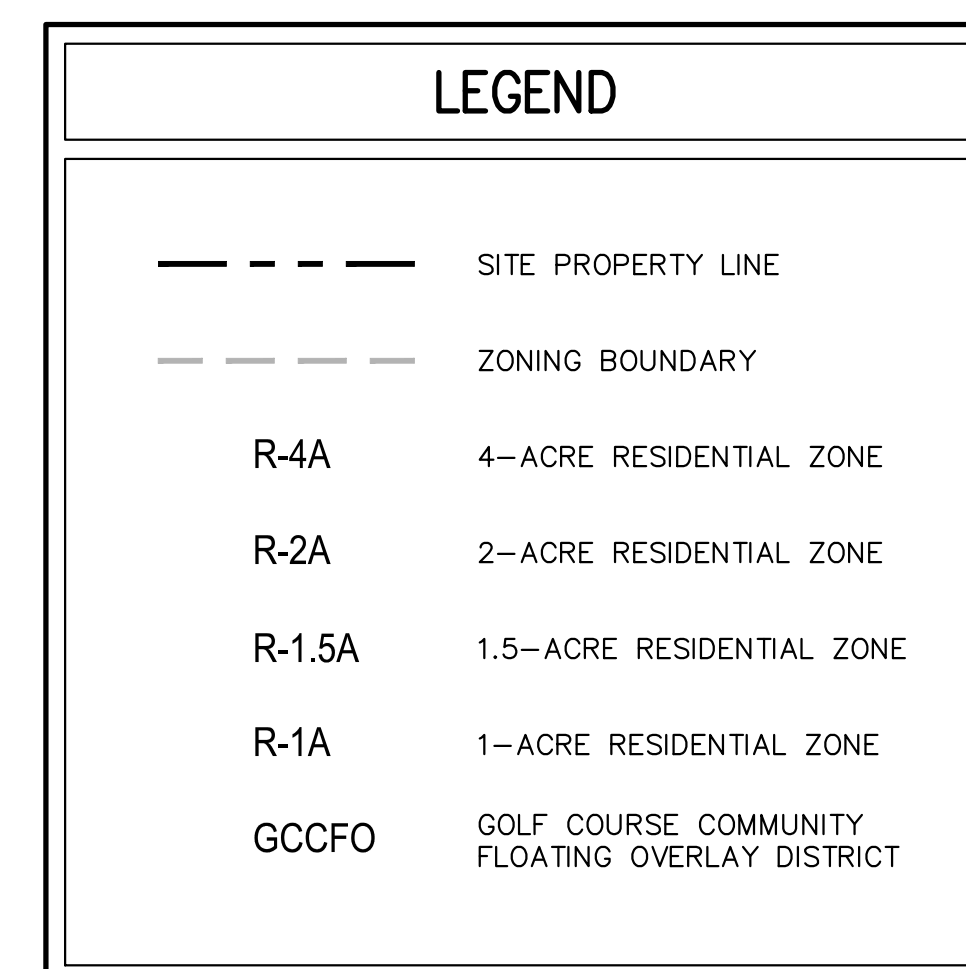
IN DECEMBER, 2019, IN CONSIDERATION OF THE ADOPTION BY THE TOWN OF THE AMENDMENT, THE APPLICANT RECORDED A DECLARATION PURSUANT TO WHICH THE APPLICANT MAY, SUBJECT TO SITE PLAN APPROVAL, CONSTRUCT ON THE DEVELOPMENT LOT A FIRST PHASE OF THE COMMUNITY ("PHASE 1"), WHICH MAY CONSIST OF UP TO THIRTY-SIX (36) RESIDENCES, WHICH MAY BE FEE-SIMPLE HOMES AND/OR CONDOMINIUM UNITS WITHOUT LIMITATION REGARDING FORM OF OWNERSHIP OF THE RESIDENCES, AND A SECOND PHASE OF THE COMMUNITY ("PHASE 2"), WHICH MAY CONSIST OF UP TO THIRTY-SEVEN (37) RESIDENCES, WHICH MAY BE FEE-SIMPLE HOMES AND/OR CONDOMINIUM UNITS WITHOUT LIMITATION REGARDING FORM OF OWNERSHIP OF THE RESIDENCES; PROVIDED THAT UNLESS THE AGGREGATE AVERAGE OF THE GROSS SALES PRICES OF THE MARKET-RATE PHASE 1 CONDOMINIUM UNITS IS \$700.00 PER SQUARE FOOT OR MORE, THE PHASE 2 CONDOMINIUM RESIDENCES ARE REQUIRED TO BE "50 AND OLDER" AGE-RESTRICTED HOUSING AS PERMITTED UNDER APPLICABLE FEDERAL LAW AND REGULATIONS. THE DECLARATION ALSO REQUIRES PHASE 1 TO INCLUDE FOUR (4) ON-SITE AFFORDABLE UNITS, AND PHASE 2 TO INCLUDE THREE (3) ON-SITE AFFORDABLE UNITS. HOWEVER, THE APPLICANT IS PERMITTED TO AT ANY TIME ELECT TO RELOCATE ALL OR A PORTION OF THE AFFORDABLE UNITS OFF-SITE, WITHIN AREAS IN THE ARMONK HAMLET THAT ARE SERVED BY PUBLIC SEWER AND WATER, AND THEREBY REDUCE THE ON-SITE AFFORDABLE UNITS AND SUBSTITUTE MARKET-RATE UNITS THEREON ON A ONE-TO-ONE BASIS, PROVIDED THAT IN NO EVENT SHALL THE TOTAL NUMBER OF RESIDENTIAL UNITS ON THE PROPERTY EXCEED SEVENTY-THREE (73).

GENERAL CONSTRUCTION NOTES APPLY TO ALL WORK HEREIN:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 "DIG SAFELY" (1-800-962-7862) TO HAVE UNDERGROUND UTILITIES LOCATED. EXPLORATORY EXCAVATIONS SHALL COMPLY WITH CODE 753 REQUIREMENTS. NO WORK SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE NOTIFIED THE CONTRACTOR THAT THEIR UTILITIES HAVE BEEN LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, INsofar AS THEY MAY BE ENDANGERED BY THE CONTRACTOR'S OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, IMMEDIATELY REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION OF UTILITY SERVICE.
- CONTRACTOR SHALL HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING UTILITIES DEPTHS AND ADVISE OF ANY CONFLICTS WITH PROPOSED UTILITIES. IF CONFLICTS ARE PRESENT, THE OWNER'S FIELD REPRESENTATIVE, JMC, PLLC AND THE APPLICABLE MUNICIPALITY OR AGENCY SHALL BE NOTIFIED IN WRITING. THE EXISTING/PROPOSED UTILITIES RELOCATION SHALL BE DESIGNED BY JMC, PLLC.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL LOCAL PERMITS REQUIRED.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERETO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA); AND APPLICABLE SAFETY, HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107-05 (SAFETY AND HEALTH REQUIREMENTS) OF THE NYS DOT STANDARD SPECIFICATIONS. IF THE CONTRACTOR PERFORMS ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE APPROVAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY THE SCOPE OF WORK SHOWN HEREON AT ALL TIMES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING PAVEMENT TO REMAIN.

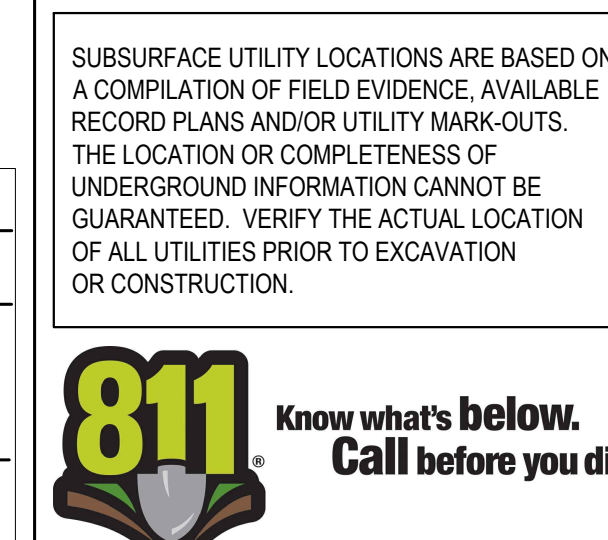


ZONING MAP
SCALE: 1" = 1,000'
SOURCE: TITLE / YEAR



APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED

CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. CERMELE, P.E., KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER



Revision

| No. | Revision | Date | By |
|-----|---------------------------|------------|----|
| 1. | RESPONSE TO TOWN COMMENTS | 01/11/2021 | NC |
| 2. | RESPONSE TO TOWN COMMENTS | 03/08/2021 | NC |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | NC |
| 4. | RESPONSE TO TOWN COMMENTS | 01/10/2022 | NC |

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED

CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. CERMELE, P.E., KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 1209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 1209, SUBSECTION 2.

LOT 1:

CLUBHOUSE/AMENITIES BUILDING: #9,115.72 S.F.
PRO SHOP: 2,025.00 S.F.
TOTAL LOT 1 BUILDING COVERAGE: #11,140.72 S.F.

LOT 2:

EXISTING SEWAGE TREATMENT PLANT TO REMAIN: #2,503.26 S.F.
RESIDENTIAL BUILDINGS: 6 X 14,364.24 S.F.
AFFH RESIDENTIAL BUILDING: #9,097.92
GATE HOUSE: 903 S.F.
TENNIS PAVILION: 375 S.F.
MAINTENANCE BUILDING: 2,500 S.F.
WATER TREATMENT BUILDING: 640 S.F.
TOTAL LOT 2 BUILDING COVERAGE: #102,204.62 S.F.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED

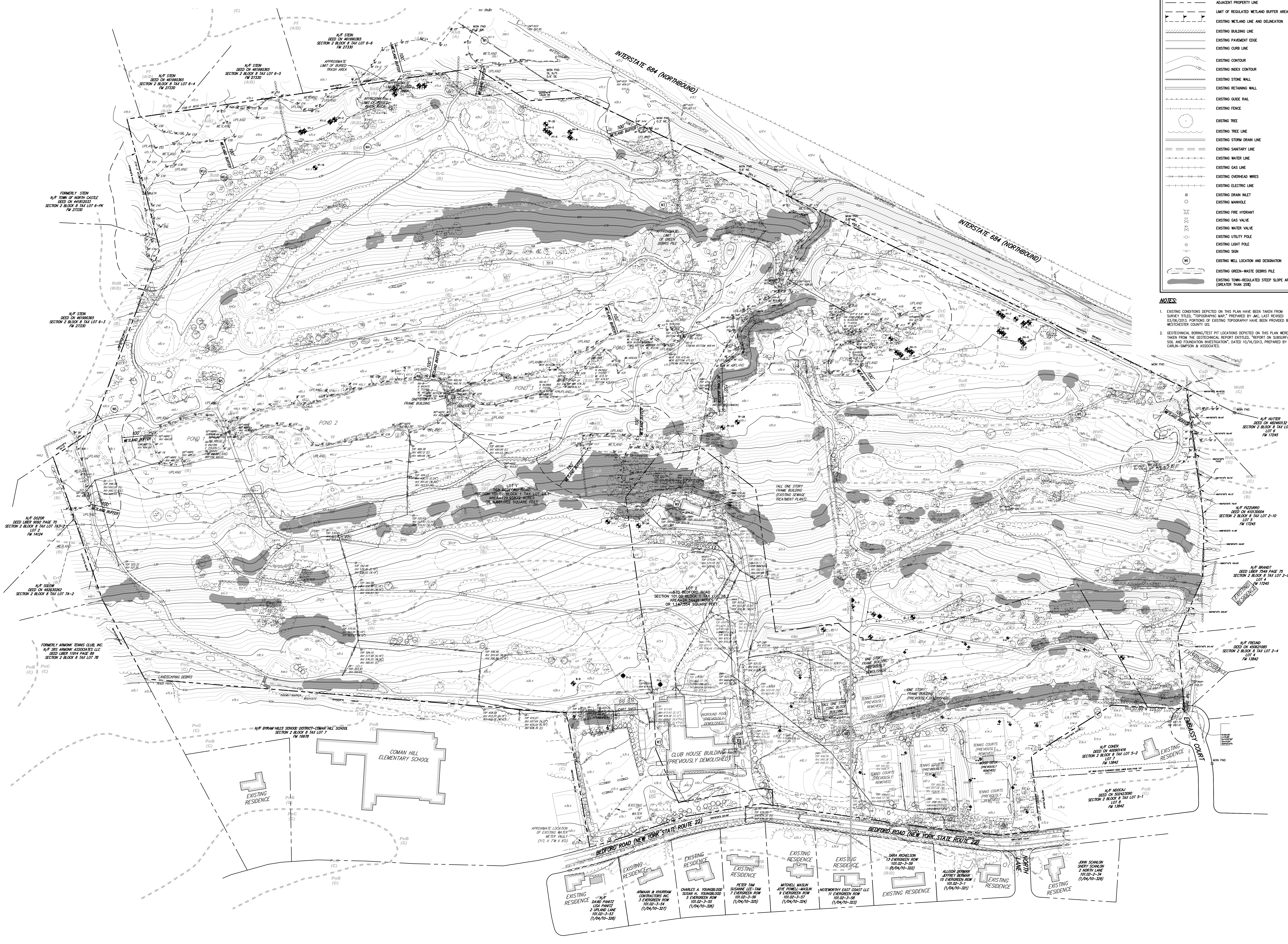
DATE: 11/23/2020

JMC Planning, Engineering, Landscape Architects & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD - ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpilc.com

Scale: NOT TO SCALE
Date: 11/23/2020
Project No: 20101
Sheet No: 001
C-000

C-000

NOT FOR CONSTRUCTION



LEGEND

| | |
|----------|---|
| [Symbol] | EXISTING PROPERTY LINE |
| [Symbol] | ADJACENT PROPERTY LINE |
| [Symbol] | LIMIT OF REGULATED WETLAND BUFFER AREA |
| [Symbol] | EXISTING WETLAND LINE AND DELINEATION |
| [Symbol] | EXISTING BUILDING LINE |
| [Symbol] | EXISTING PAVEMENT EDGE |
| [Symbol] | EXISTING CURB LINE |
| [Symbol] | EXISTING INDEX CONTOUR |
| [Symbol] | EXISTING STONE WALL |
| [Symbol] | EXISTING RETAINING WALL |
| [Symbol] | EXISTING CURE RAIL |
| [Symbol] | EXISTING FENCE |
| [Symbol] | EXISTING TREE |
| [Symbol] | EXISTING TREE LINE |
| [Symbol] | EXISTING STORM DRAIN LINE |
| [Symbol] | EXISTING SANITARY LINE |
| [Symbol] | EXISTING WATER LINE |
| [Symbol] | EXISTING GAS LINE |
| [Symbol] | EXISTING OVERHEAD WIRES |
| [Symbol] | EXISTING ELECTRIC LINE |
| [Symbol] | EXISTING DRAIN INLET |
| [Symbol] | EXISTING MANHOLE |
| [Symbol] | EXISTING FIRE HYDRANT |
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| [Symbol] | EXISTING WATER VALVE |
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| [Symbol] | EXISTING LIGHT POLE |
| [Symbol] | EXISTING SIGN |
| [Symbol] | EXISTING WELL LOCATION AND DESIGNATION |
| [Symbol] | EXISTING GREEN-WASTE DEBRIS PILE |
| [Symbol] | EXISTING TOWN-REGULATED STEEP SLOPE AREA (GREATER THAN 30%) |

NOTES

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.
- GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION," DATED 10/16/2014, PREPARED BY CARLIN-SIMPSON & ASSOCIATES.

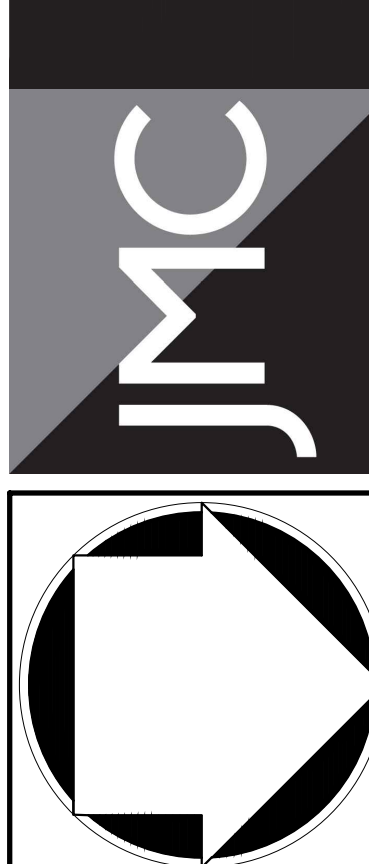
APPLICANT/OWNER: SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06850

| No. | Rev. | Date | By |
|-----|------|------------|----|
| 1. | 1. | 07/17/2020 | NC |
| 2. | 2. | 03/08/2021 | NC |
| 3. | 3. | 06/14/2021 | NC |
| 4. | 4. | 07/07/2022 | NC |

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10534
PHONE: 914-333-3223 - FAX: 914-233-2102
www.jmcp.com



OVERALL EXISTING CONDITIONS MAP
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209. SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
CHRISTOPHER CATHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. CERMIELE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

Scale: 1" = 100'
Date: 11/23/2020
Project No: 20101
DWG-DATE: [] DWG-REV: []
C-010

NOT FOR CONSTRUCTION



LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- LIMIT OF REGULATED WETLAND BUFFER AREA
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING STORM DRAIN LINE
- EXISTING SANITARY LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRE
- EXISTING ELECTRIC LINE
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING WELL LOCATION AND DESIGNATION
- EXISTING GREEN-WASTE DEBRIS PILE
- EXISTING TOWN-REGULATED STEEP SLOPE AREA (GREATER THAN 25%)

NOTES

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLES, "TOPOGRAPHIC MAP" PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GS.
- GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSIDIARY SOIL AND FOUNDATION INVESTIGATION", DATED 10/16/2013, PREPARED BY CARLIN-SIMPSON & ASSOCIATES.

REVISIONS

| No. | Date | By | NC | AG |
|-----|------------|----|----|----|
| 1. | 07/17/2021 | NC | | |
| 2. | 03/08/2021 | NC | | |
| 3. | 06/14/2021 | NC | | |
| 4. | 07/07/2021 | NC | | |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
330 RAILROAD AVENUE
GREENWICH, CT 06830

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD • ARMONK, NY 10534
PHONE: 914.333.3222 • FAX: 914.233.2102
www.jmcp.com

EXISTING CONDITIONS MAP (SOUTH)

THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209 SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. GEMBLE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER DATE: _____

NOT FOR CONSTRUCTION



LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- LIMIT OF REGULATED WETLAND BUFFER AREA
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GLEDE RAIL
- EXISTING FENCE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING STORM DRAIN LINE
- EXISTING SANITARY LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING ELECTRIC LINE
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING MILL LOCATION AND DESIGNATION
- EXISTING GREEN-WASTE DEBRIS PILE
- EXISTING TOWN-REGULATED STEEP SLOPE AREA (GREATER THAN 25%)

NOTES:

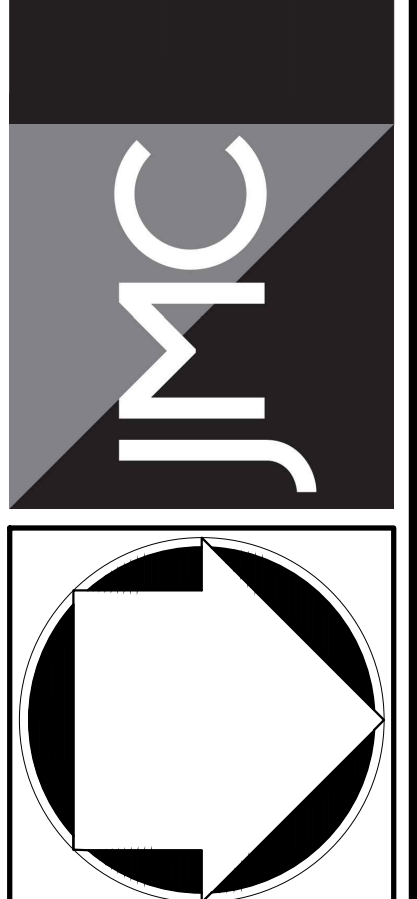
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY DC.
- GEOTECHNICAL BORINGS/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION," DATED 10/16/2013, PREPARED BY CARLIN-SIMPSON & ASSOCIATES.

APPLICANT/OWNER: SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06850

| No. | Date | By | Revision |
|-----|------------|----|---------------------------|
| 1. | 07/17/2020 | NC | RESPONSE TO TOWN COMMENTS |
| 2. | 03/06/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 3. | 06/14/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 4. | 07/07/2022 | NC | RESPONSE TO TOWN COMMENTS |

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD - ARMONK, NY 10534
PHONE: 914.233.2424 - FAX: 914.233.2102
www.jmcp.com

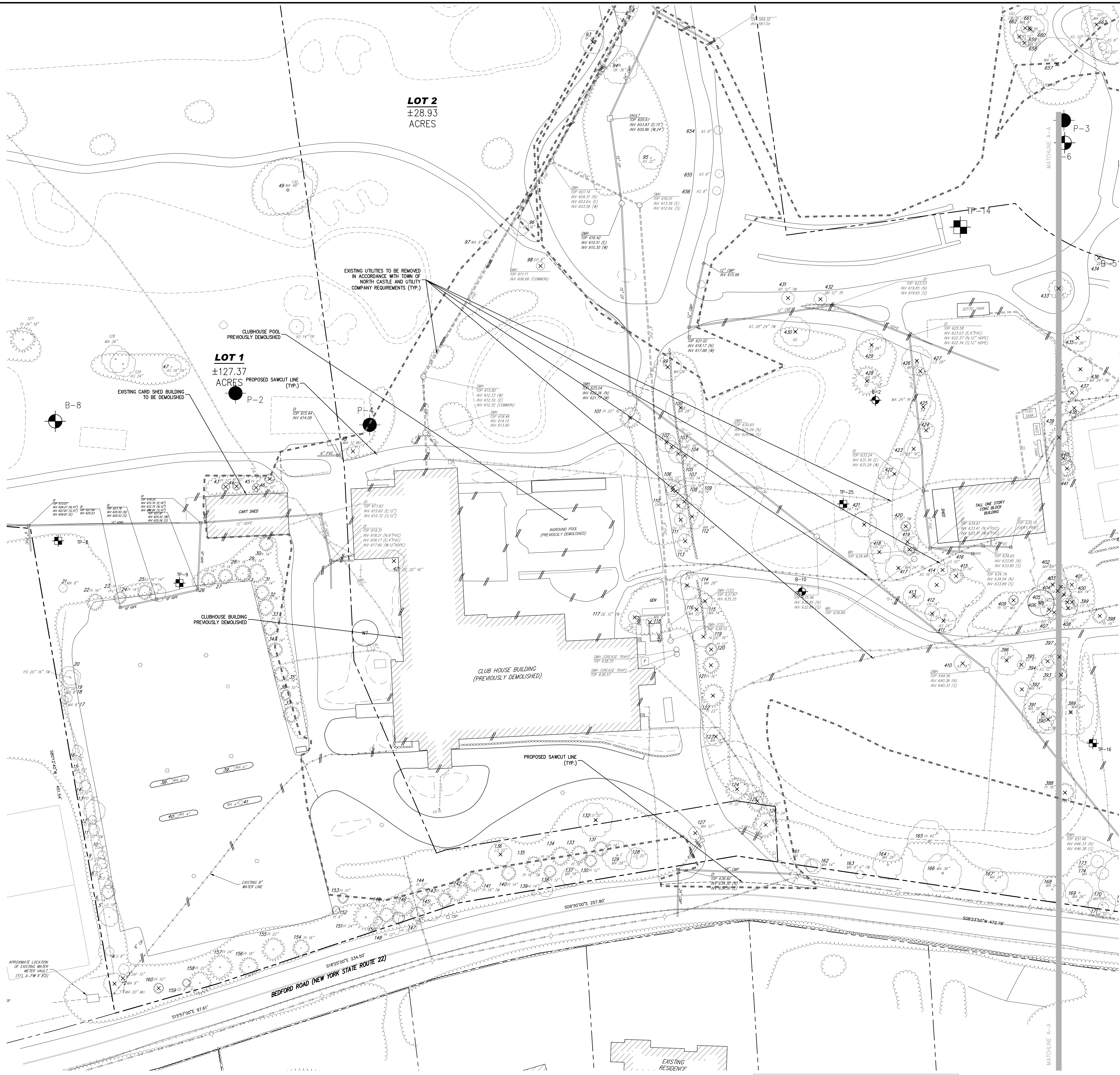


EXISTING CONDITIONS MAP (NORTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209. SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
CHRISTOPHER CARTHAY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. GEMELLE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

| Drawn | NC | Approved | AG |
|--------------|------------|----------|----|
| Scale: | 1" = 30' | | |
| Date: | 11/23/2020 | | |
| Project No.: | 20101 | | |
| Sheet Name: | EX NORTH | 09/02 | |
| Sheet No.: | C-012 | | |



| LEGEND | |
|--------|--|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | LIMIT OF REGULATED WETLAND BUFFER AREA |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING CONTOUR |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING GUIDE RAIL |
| | EXISTING FENCE |
| | EXISTING TREE |
| | EXISTING TREE TO BE REMOVED |
| | EXISTING TREE LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING SANITARY LINE |
| | EXISTING WATER LINE |
| | EXISTING GAS LINE |
| | EXISTING OVERHEAD WIRES |
| | EXISTING ELECTRIC LINE |
| | EXISTING DRAIN INLET |
| | EXISTING MANHOLE |
| | EXISTING FIRE HYDRANT |
| | EXISTING GAS VALVE |
| | EXISTING WATER VALVE |
| | EXISTING UTILITY POLE |
| | EXISTING LIGHT POLE |
| | EXISTING SIGN |
| | EXISTING WELL LOCATION AND DESIGNATION |
| | EXISTING FEATURE TO BE REMOVED |
| | PROPOSED SAWCUT LINE |
| | PROPOSED LIMIT OF DISTURBANCE |

TOTAL NUMBER OF TREES TO BE REMOVED: 225

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.
- GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION," DATED 10/16/2013, PREPARED BY CARL-SIMPSON & ASSOCIATES.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ADHERE TO ALL REQUIREMENTS OF AGENCIES HAVING JURISDICTION OVER ROCK CRUSHING OPERATIONS. PORTABLE ROCK CRUSHING EQUIPMENT USED IN WESTCHESTER COUNTY IS SUBJECT TO PERMITTING BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDOH). THE ROCK CRUSHING EQUIPMENT MUST MAINTAIN A VALID AND CURRENT PERMIT IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN CHAPTER 873, ARTICLE XII, SECTIONS 873.1353.1 AND 873.1306.1 OF THE WESTCHESTER COUNTY CODE. IN ADDITION TO COUNTY INSPECTION OF THE EQUIPMENT, THESE REGULATIONS REQUIRE MITIGATION MEASURES TO CONTROL THE POTENTIAL FOR FUGITIVE PARTICULATE EMISSIONS (STONE DUST).
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES TO BE DEMOLISHED AND EXISTING UTILITIES TO BE PROTECTED. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND JMC PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE START OF ANY DEMOLITION THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE TOWN OF NORTH CASTLE AND ALL OTHER AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL OUTSTANDING FEES, CHARGES, AND DEPOSITS TO ACQUIRE SAID PERMITS. NO DEMOLITION SHALL COMMENCE UNTIL A PERMIT HAS BEEN OBTAINED FROM THE TOWN.
- THE CONTRACTOR SHALL COORDINATE THE DISCONNECTION OF ALL UTILITIES WITH THE UTILITY COMPANY HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. CONFIRMATION OF DISCONNECTED UTILITIES SHALL BE PROVIDED TO THE TOWN OF NORTH CASTLE BUILDING DEPARTMENT IN ACCORDANCE WITH THEIR REQUIREMENTS. LETTERS FROM THE APPROPRIATE UTILITIES STATING THAT GAS AND ELECTRIC HAVE BEEN CUT OFF SHALL BE PROVIDED TO THE TOWN.
- THE CONTRACTOR SHALL OBTAIN, AND PROVIDE A COPY TO THE TOWN, A SEWER PLUG PERMIT INDICATING THAT A LICENSED PLUMBER HAS PLUGGED ALL EXISTING SEWER LINES TO THE EXISTING BUILDING. THE CONTRACTOR SHALL OBTAIN, AND PROVIDE A COPY TO THE TOWN, A WATER USE PERMIT INDICATING THAT A LICENSED PLUMBER HAS CUT OUT AND SEALED ALL EXISTING WATER SERVICE TO THE EXISTING BUILDING.
- ANY UNSUITABLE MATERIAL FOUND ON-SITE DURING DEMOLITION/CONSTRUCTION, AS DETERMINED BY THE PROJECT'S GEOTECHNICAL ENGINEER, SHALL BE PROPERLY DISPOSED OF OFF-SITE IN A MANNER APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND REPLACED WITH SUITABLE MATERIAL, AS REQUIRED.
- ALL DEMOLITION AND/OR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, INCLUDING STREETS AND SIDEWALKS, SHALL BE PERFORMED IN ACCORDANCE WITH TOWN/STATE REQUIREMENTS.
- ALL CONSTRUCTION/DEMOLITION DEBRIS NOT PROPOSED TO BE RECYCLED SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH THE REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION.
- EXISTING CONCRETE MAY BE STORED ON SITE, AND RECYCLED FOR USE AS COMPACTED FILL. ALL MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- PRIOR TO THE START OF SITE DEMOLITION, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TOWN REQUIREMENTS, AS REQUIRED AND/OR DIRECTED BY THE TOWN OF NORTH CASTLE OR JMC.
- EXISTING DRAINAGE PATTERNS ON SITE SHALL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE.
- ALL EXISTING UTILITY CASTINGS WHICH ARE TO REMAIN SHALL BE REMOVED AND RESET TO THE NEW PROPOSED GRADES IN ACCORDANCE WITH THE DIRECTIONS OF THE OWNER'S FIELD REPRESENTATIVE. EXISTING CASTINGS WHICH ARE DAMAGED OR UNFIT FOR INSTALLATION IN THE NEW CONSTRUCTION, AS DETERMINED BY THE OWNER'S FIELD REPRESENTATIVE, SHALL BE REPLACED.
- ALL EXISTING SIDEWALKS, CURBS, PAVEMENT, ETC. TO REMAIN, WHICH ARE DISTURBED OR DAMAGED DUE TO THE NEW CONSTRUCTION, ARE TO BE REPLACED WITH MATERIALS CONSISTENT WITH EXISTING CONDITIONS.
- THESE PLANS ARE TO BE PROVIDED TO BOTH THE DEMOLITION CONTRACTOR AND THE SITE CONTRACTOR FOR THEIR USE. INFORMATION AND COORDINATION. ANY QUESTIONS OF CONTRACTOR RESPONSIBILITY AND/OR SEPARATION OF WORK SHALL BE DIRECTED TO THE GENERAL CONTRACTOR IN WRITING PRIOR TO ISSUANCE OF BID.
- THE OWNER SHALL RETAIN A LICENSED AND QUALIFIED PROFESSIONAL, CERTIFIED BY THE STATE, TO INSPECT FOR THE PRESENCE OF ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS WITHIN DEMOLITION AREAS PRIOR TO THE COMMENCEMENT OF DEMOLITION. IF REMEDIATION IS REQUIRED, THE OWNER SHALL DO SO IN ACCORDANCE WITH THE NYS ASBESTOS RULES AND REGULATIONS AND/OR ANY AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED DOCUMENTATION TO THE STATE PRIOR TO OBTAINING A DEMOLITION PERMIT.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

CHRISTOPHER CARRY, CHAIRMAN, DATE: _____
 TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
 JOSEPH M. GERMEL, P.E., DATE: _____
 KELLARD SESSIONS CONSULTING, P.C.
 CONSULTING TOWN ENGINEER

- THE CONTRACTOR SHALL EXTERMINATE RODENTS AS REQUIRED BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH AND MENTAL HYGIENE. A LETTER FROM THE HEALTH DEPARTMENT CERTIFYING THAT A LICENSED EXTERMINATOR HAS TREATED THE EXISTING BUILDING SHALL BE PROVIDED TO THE TOWN DEPARTMENT OF BUILDINGS.
- PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR MUST PROVIDE 24-HOUR NOTIFICATION TO THE TOWN.
- THE CONTRACTOR SHALL PROVIDE VERIFICATION TO THE TOWN THAT FIVE (5)

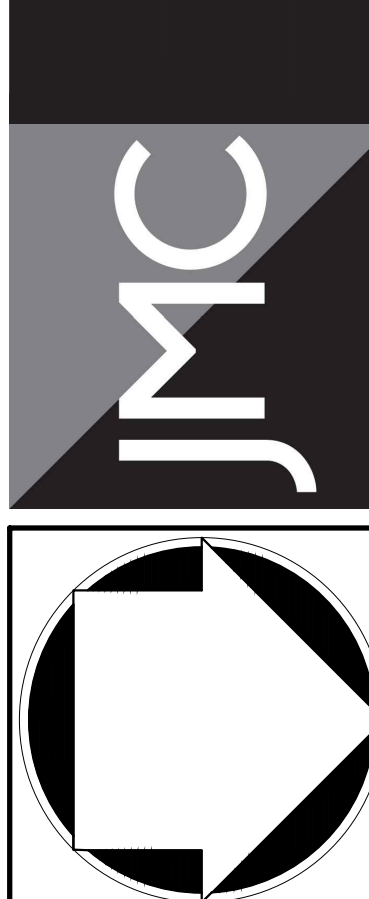
| Rev. | Date | By | Comments |
|------|------------|----|---------------------------|
| 1 | 07/17/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 2 | 03/08/2022 | NC | RESPONSE TO TOWN COMMENTS |
| 3 | 06/14/2022 | NC | RESPONSE TO TOWN COMMENTS |
| 4 | 07/07/2022 | NC | RESPONSE TO TOWN COMMENTS |

| No. | Revision |
|-----|---------------------------|
| 1 | RESPONSE TO TOWN COMMENTS |
| 2 | RESPONSE TO TOWN COMMENTS |
| 3 | RESPONSE TO TOWN COMMENTS |
| 4 | RESPONSE TO TOWN COMMENTS |

APPlicant/OWNER: **SUMMIT CLUB PARTNERS, LLC**
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEDFORD ROAD - ARMONK, NY 10504
 PH: 914.333.3232 - FAX: 914.243.2102
 www.jmcplc.com



SITE DEMOLITION & TREE REMOVAL PLAN (SOUTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND PERMITS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209.9 SUBSECTION 2.

| Date: | NC | Approved: | AG |
|--------------|------------|------------|-----|
| Scale: | 1" = 30' | | |
| Date: | 11/23/2020 | | |
| Project No.: | 20101 | | |
| Sheet No.: | 200 | 2000 SOUTH | 090 |

C-020

NOT FOR CONSTRUCTION



| LEGEND | |
|--------|--|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | LIMIT OF REGULATED WETLAND BUFFER AREA |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING CONTOUR |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING GUIDE RAIL |
| | EXISTING FENCE |
| | EXISTING TREE |
| | EXISTING TREE TO BE REMOVED |
| | EXISTING TREE LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING SANITARY LINE |
| | EXISTING WATER LINE |
| | EXISTING GAS LINE |
| | EXISTING OVERHEAD WIRES |
| | EXISTING ELECTRIC LINE |
| | EXISTING DRAIN INLET |
| | EXISTING MANHOLE |
| | EXISTING FIRE HYDRANT |
| | EXISTING GAS VALVE |
| | EXISTING WATER VALVE |
| | EXISTING UTILITY POLE |
| | EXISTING LIGHT POLE |
| | EXISTING SIGN |
| | EXISTING WELL LOCATION AND DESIGNATION |
| | EXISTING FEATURE TO BE REMOVED |
| | PROPOSED SCOWT LINE |
| | PROPOSED LIMIT OF DISTURBANCE |

TOTAL NUMBER OF TREES TO BE REMOVED: 225

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.
- GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION", DATED 10/16/2013, PREPARED BY CARL-SIMPSON & ASSOCIATES.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ADHERE TO ALL REQUIREMENTS OF AGENCIES HAVING JURISDICTION OVER ROCK CRUSHING OPERATIONS. PORTABLE ROCK CRUSHING EQUIPMENT USED IN WESTCHESTER COUNTY IS SUBJECT TO PERMITTING BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDH). THE ROCK CRUSHING EQUIPMENT MUST MAINTAIN A VALID AND CURRENT PERMIT IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN CHAPTER 873, ARTICLE XII, SECTIONS 873.133.1 AND 873.1306.1 OF THE WESTCHESTER COUNTY CODE. IN ADDITION TO COUNTY INSPECTION OF THE EQUIPMENT, THESE REGULATIONS REQUIRE MITIGATION MEASURES TO CONTROL THE POTENTIAL FOR FUGITIVE PARTICULATE EMISSIONS (STONE DUST).
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES TO BE DEMOLISHED AND EXISTING UTILITIES TO BE PROTECTED. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND JMC PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE START OF ANY DEMOLITION THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE TOWN OF NORTH CASTLE AND ALL OTHER AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL OUTSTANDING FEES, CHARGES, AND DEPOSITS TO ACQUIRE SAID PERMITS. NO DEMOLITION SHALL COMMENCE UNTIL A PERMIT HAS BEEN OBTAINED FROM THE TOWN.
- THE CONTRACTOR SHALL COORDINATE THE DISCONNECTION OF ALL UTILITIES WITH THE UTILITY COMPANY HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. CONFIRMATION OF DISCONNECTED UTILITIES SHALL BE PROVIDED TO THE TOWN OF NORTH CASTLE BUILDING DEPARTMENT IN ACCORDANCE WITH THEIR REQUIREMENTS. LETTERS FROM THE APPROPRIATE UTILITIES STATING THAT GAS AND ELECTRIC HAVE BEEN CUT OFF SHALL BE PROVIDED TO THE TOWN.
- THE CONTRACTOR SHALL OBTAIN, AND PROVIDE A COPY TO THE TOWN, A SEWER PLUG PERMIT INDICATING THAT A LICENSED PLUMBER HAS PLUGGED ALL EXISTING SEWER LINES TO THE EXISTING BUILDING. THE CONTRACTOR SHALL OBTAIN, AND PROVIDE A COPY TO THE TOWN, A WATER USE PERMIT INDICATING THAT A LICENSED PLUMBER HAS CUT AND SEALED ALL EXISTING WATER SERVICE TO THE EXISTING BUILDING.
- ANY UNSUITABLE MATERIAL FOUND ON-SITE DURING DEMOLITION/CONSTRUCTION, AS DETERMINED BY THE PROJECT'S GEOTECHNICAL ENGINEER, SHALL BE PROPERLY DISPOSED OF OFF-SITE IN A MANNER APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND REPLACED WITH SUITABLE MATERIAL, AS REQUIRED.
- ALL DEMOLITION AND/OR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, INCLUDING STREETS AND SIDEWALKS, SHALL BE PERFORMED IN ACCORDANCE WITH TOWN/STATE REQUIREMENTS.
- ALL CONSTRUCTION/DEMOLITION DEBRIS NOT PROPOSED TO BE RECYCLED SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH THE REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION.
- EXISTING CONCRETE MAY BE STORED ON SITE, AND RECYCLED FOR USE AS COMPACTED FILL. ALL MATERIAL TO BE USED AS FILL SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- PRIOR TO THE START OF SITE DEMOLITION, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH TOWN REQUIREMENTS, AS REQUIRED AND/OR DIRECTED BY THE TOWN OF NORTH CASTLE OR JMC.
- EXISTING DRAINAGE PATTERNS ON SITE SHALL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE.
- ALL EXISTING UTILITY CASTINGS WHICH ARE TO REMAIN SHALL BE REMOVED AND RESET TO THE NEW PROPOSED GRADES IN ACCORDANCE WITH THE DIRECTIONS OF THE OWNER'S FIELD REPRESENTATIVE. EXISTING CASTINGS WHICH ARE DAMAGED OR UNFIT FOR INSTALLATION IN THE NEW CONSTRUCTION, AS DETERMINED BY THE OWNER'S FIELD REPRESENTATIVE, SHALL BE REPLACED.
- ALL EXISTING SIDEWALKS, CURBS, PAVEMENT, ETC. TO REMAIN, WHICH ARE DISTURBED OR DAMAGED DUE TO THE NEW CONSTRUCTION, ARE TO BE REPLACED WITH MATERIALS CONSISTENT WITH EXISTING CONDITIONS.
- THESE PLANS ARE TO BE PROVIDED TO BOTH THE DEMOLITION CONTRACTOR AND THE SITE CONTRACTOR FOR THEIR USE. INFORMATION AND COORDINATION. ANY QUESTIONS OF CONTRACTOR RESPONSIBILITY AND/OR SEPARATION OF WORK SHALL BE DIRECTED TO THE GENERAL CONTRACTOR IN WRITING PRIOR TO ISSUANCE OF BID.
- THE OWNER SHALL RETAIN A LICENSED AND QUALIFIED PROFESSIONAL, CERTIFIED BY THE STATE, TO INSPECT FOR THE PRESENCE OF ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS WITHIN DEMOLITION AREAS PRIOR TO THE COMMENCEMENT OF DEMOLITION. IF REMEDIATION IS REQUIRED, THE OWNER SHALL DO SO IN ACCORDANCE WITH THE NYS ASBESTOS RULES AND REGULATIONS AND/OR ANY AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED DOCUMENTATION TO THE STATE PRIOR TO OBTAINING A DEMOLITION PERMIT.
- THE CONTRACTOR SHALL EXTERMINATE RODENTS AS REQUIRED BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH AND MENTAL HYGIENE. A LETTER FROM THE HEALTH DEPARTMENT CERTIFYING THAT A LICENSED EXTERMINATOR HAS TREATED THE EXISTING BUILDING SHALL BE PROVIDED TO THE TOWN DEPARTMENT OF BUILDINGS.
- PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR MUST PROVIDE 24-HOUR NOTIFICATION TO THE TOWN.
- THE CONTRACTOR SHALL PROVIDE VERIFICATION TO THE TOWN THAT FIVE (5)

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

CHRISTOPHER CARRY, CHAIRMAN, DATE: _____
 TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
 JOSEPH W. GERMEL, P.E. DATE: _____
 KELLARD SESSIONS CONSULTING, P.C.
 CONSULTING TOWN ENGINEER

| | |
|---|--|
| APPLICANT/OWNER: SUMMIT CLUB PARTNERS, LLC 568 BEDFORD ROAD (NY-22) ARMONK, NY 10504 | |
| ARCHITECT: GRANOFF ARCHITECTS 330 RAILROAD AVENUE GREENWICH, CT 06850 | |
| DATE: 11/23/2020 | REVISION: 01/17/2021 NC 03/08/2021 NC 06/14/2021 NC 07/07/2022 NC |
| PROJECT NO.: 20101 DRAWING NO.: 090-00 | |
| SCALE: 1" = 30' DATE: 11/23/2020 PROJECT NO.: 20101 DRAWING NO.: 090-00 | |
| ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 2209.9 SUBSECTION 2. | |
| C-021 | |

NOT FOR CONSTRUCTION

SARA RICHELSON
 11/23/2020

LANDSCAPE AREA LEGEND

- PROPOSED PARKING AREA (±116,361 S.F.)
- PROPOSED INTERIOR PARKING LANDSCAPED AREA (±25,746 S.F.)

PROPOSED INTERIOR PARKING LANDSCAPED AREA CALCULATION:

TOTAL PROPOSED INTERIOR PARKING LANDSCAPED AREA → 25,746 S.F. X 100 = ±22.1%
 TOTAL PROPOSED PARKING AREA → 116,361 S.F.

| UNIT / BEDROOM COUNT (Revised 1-10-22) | Count | Count | Count |
|--|--|------------------|------------------|
| BUILDING 1 (3 STORY) | 12 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 27 BEDROOMS/BLDG | 27 BEDROOMS/BLDG |
| BUILDING 2 (3 STORY) | 12 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 27 BEDROOMS/BLDG | 27 BEDROOMS/BLDG |
| BUILDING 3 (2 STORY) | 9 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 20 BEDROOMS/BLDG | 20 BEDROOMS/BLDG |
| BUILDING 4 (2 STORY) | 9 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 20 BEDROOMS/BLDG | 20 BEDROOMS/BLDG |
| BUILDING 5 (3 STORY) | 12 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 27 BEDROOMS/BLDG | 27 BEDROOMS/BLDG |
| BUILDING 6 (3 STORY) | 12 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS | 27 BEDROOMS/BLDG | 27 BEDROOMS/BLDG |
| BUILDING 7 (3 STORY) | 7 AFFH UNITS (0) 1 BEDROOMS & (4) 2 BEDROOMS | 18 BEDROOMS/BLDG | 18 BEDROOMS/BLDG |
| TOTALS | 78 UNITS (0) 3 BEDROOMS & (0) 2 BEDROOMS & (0) 4 BEDROOMS | 167 BEDROOMS | 167 BEDROOMS |
| DENSITY UNITS | 45.6 UNITS (0) 3 BEDROOMS + 0.6 DENSITY UNITS (0) 2 BEDROOMS + 2 DENSITY UNITS (0) 4 BEDROOMS + 2 DENSITY UNITS (0) 1 BEDROOMS = | 50.0 | 50.0 |
| DWELLING UNITS | 78 UNITS | | |

Density Unit Calculation:
 Site: 129.95872 acres
 Lot 2: 28.93 acres
 Total Site: 158.89272 acres + 4.3640/ac = (6,808,585.6308 sq ft) / 133,000 sq ft (10,714.74)
 51 Density Units Available
 45.6 Density Units Proposed (COMPLIES)

Dwelling Unit Calculation:
 Site: Lot 1: 129.95872 acres
 Lot 2: 28.93 acres
 Total Site: 158.89272 acres / 1.8 Acres = 88.27373
 87 Dwelling Units Available (88 Studied in the EIS)
 73 Dwelling Units Proposed (COMPLIES)

Minimum Unit Sizes:
 Market Rate Units
 Efficiency: 450 sq ft Min. N/A
 One-Bedroom: 700 sq ft Min. N/A
 Two-Bedroom: 900 sq ft 2,377 sq ft (if smallest complies)
 Three-Bedroom: 1,100 sq ft 2,997 sq ft (if smallest complies)

Affordable Units:
 Efficiency: 450 sq ft Min. N/A
 One-Bedroom: 700 sq ft Min. 790 sq ft (complies)
 Two-Bedroom: 900 sq ft 1,338 sq ft (complies)
 Three-Bedroom: 1,100 sq ft N/A

PHASING NOTES:

1. IN DECEMBER, 2019, IN CONSIDERATION OF THE ADOPTION BY THE TOWN OF THE AMENDMENT, THE APPLICANT RECORDED A DECLARATION PURSUANT TO WHICH THE APPLICANT MAY, SUBJECT TO SITE PLAN APPROVAL, CONSTRUCT ON THE DEVELOPMENT LOT 4 (FIRST PHASE OF THE COMMUNITY (PHASE 1)), WHICH MAY CONSIST OF UP TO THIRTY-SIX (36) RESIDENCES, WHICH MAY BE FEE-SIMPLE HOMES AND/OR CONDOMINIUM UNITS WITHOUT LIMITATION REGARDING FORM OF OWNERSHIP OF THE RESIDENCES, AND A SECOND PHASE OF THE COMMUNITY (PHASE 2), WHICH MAY CONSIST OF UP TO THIRTY-SEVEN (37) RESIDENCES, WHICH MAY BE FEE-SIMPLE HOMES AND/OR CONDOMINIUM UNITS WITHOUT LIMITATION REGARDING FORM OF OWNERSHIP OF THE RESIDENCES, PROVIDED THAT UNLESS THE AGGREGATE AVERAGE OF THE GROSS SALES PRICE OF THE MARKET-RATE PHASE 1 CONDOMINIUM UNITS IS \$700,000 PER SQUARE FOOT OR MORE, THE PHASE 2 CONDOMINIUM RESIDENCES ARE REQUIRED TO BE 50% AND OLDER AGE-RESTRICTED HOUSING AS PERMITTED UNDER APPLICABLE FEDERAL LAW AND REGULATIONS. THE DECLARATION ALSO REQUIRES PHASE 1 TO INCLUDE FOUR (4) ON-SITE AFFORDABLE UNITS, AND PHASE 2 TO INCLUDE THREE (3) ON-SITE AFFORDABLE UNITS. HOWEVER, THE APPLICANT IS PERMITTED TO AT ANY TIME ELECT TO RELOCATE ALL OR A PORTION OF THE AFFORDABLE UNITS OFF-SITE WITHIN AREAS IN THE ARMONK HAMLET THAT ARE SERVED BY PUBLIC SEWER AND WATER, AND THEREBY REDUCE THE ON-SITE AFFORDABLE AND SUBSTITUTE MARKET-RATE UNITS THEREFOR ON A ONE-TO-ONE BASIS, PROVIDED THAT IN NO EVENT SHALL THE TOTAL NUMBER OF RESIDENTIAL UNITS ON THE PROPERTY EXCEED SEVENTY-THREE (73).

2. REFER TO DRAWING C-402 FOR SEQUENCE OF CONSTRUCTION.

Project Summary Comparison Table

| | DEIS Plan | FEIS Alternative 2 | Modified Project (New Residential Development) |
|--|---|---|---|
| Market Rate Condominiums | 80 | 80 | See Unit/Bedroom Count Table |
| Fee-Simple Affordable Units | 0 | 0 | See Unit/Bedroom Count Table |
| Total Residential Units | 80 | 80 | See Unit/Bedroom Count Table |
| Golf Cottages (4 BR) | 5 | 10 | See Unit/Bedroom Count Table |
| Golf Residences (2 BR) | 55 | 70 | See Unit/Bedroom Count Table |
| Golf Residences (2 BR) | 0 | 0 | See Unit/Bedroom Count Table |
| Club Units (2 BR) | 14 | 0 | See Unit/Bedroom Count Table |
| Affordable Units (2 BR) | 6 | 7* | See Unit/Bedroom Count Table |
| Affordable Units (3 BR) | 1 | 0 | See Unit/Bedroom Count Table |
| Affordable Units (4 BR) | 1 | 1* | See Unit/Bedroom Count Table |
| Total Bedrooms | 209 | 198 | 197 |
| Buffer on Bedford Road | 25 feet | 100 feet | 100 feet |
| Open Space | 141.6 acres | 141.6 acres | 127.37 acres |
| Impervious Area | 17.5 ac. (6.6 ac. New Impervious) | 16.7 ac. (5.8 ac. New Impervious) | 9.1 ac. (6.0 ac. New Impervious) (3) |
| Length of Private Road | 3,750 lf | 3,258 lf | 2,262 lf |
| Steep Slope Impact | 2.75 acres | 2.75 acres | 0.59 acres |
| Steep to Inclinable | 479 acres | 813 acres | 235 acres |
| Wetland Impacts | add 1.25 acres of new wetland enhancements | add 1.25 acres of new wetland enhancements | N/A |
| Wetland Buffer Impacts | 4.34 acres | 4.59 acres | N/A |
| Trip Generation (Peak) | 47 AM / 55 PM | 47 AM / 55 PM (or less) | 47 AM / 55 PM (or less) |
| Additional Water Demand | 29,775 gpd | 28,225 gpd | 39,828 gpd |
| Additional Wastewater Generation | 29,775 gpd | 28,225 gpd | 39,828 gpd |
| Annual Tax and Mitigation Payment Revenue | \$1,493,323 | \$2,598,230 | \$2,598,230 |
| Total Population | 185,204 | 183,191 | 150,151 (1) |
| School Children - Local Experience | 10 | 9 | 4-5 (2) |
| School Children - Rutgers & Local Experience | 20 | 17 | 18-20 (2) |
| Visual Impacts | 4 new residential buildings along Bedford Road, with landscaping in 25-foot buffer. | 5 new detached single-family Golf Cottages along Bedford Road; portion of internal road close to Route 22 eliminated; landscaping added in 100 foot buffer along Bedford Road (100' buffer extends around the perimeter of the Site.) Repair to stone wall on Windmill Farms side of Route 22 | 7 new residential buildings, with tennis courts and amenities, building more than 100 feet from Bedford Road. |

NOTES:

- RUTGERS MULTIPLIERS (TOTAL POPULATION)
 - FOR THE 3-11-BEDROOM AFFH RENTAL UNITS, MULTIPLIER OF 1.09 = 5.97
 - FOR THE 4-6-BEDROOM AFFH RENTAL UNITS, MULTIPLIER OF 1.88 = 96.50; 4-2-BEDROOM AFFH RENTAL UNITS, MULTIPLIER OF 2.55 = 10.2; TOTAL 96.7
 - RUTGERS UNIVERSITY RESIDENTIAL DEMOGRAPHIC MULTIPLIERS (JUNE 2006): NEW YORK, OWNERSHIP UNITS IN BUILDINGS WITH 5+ UNITS, COSTING MORE THAN \$329,500 AND RENTAL UNITS IN BUILDINGS WITH 5+ UNITS, MID-LEVEL RENT (\$150-\$100) (2-BEDROOM)
 - FOR THE 1-4-BEDROOM UNITS, MULTIPLIER OF 3.05 = 48
 - RUTGERS UNIVERSITY RESIDENTIAL DEMOGRAPHIC MULTIPLIERS (JUNE 2006): NEW YORK, OWNERSHIP UNITS IN BUILDINGS WITH 5+ UNITS, ALL VALUES (3 BEDROOMS)
 - RUTGERS HAS NO DATA FOR THE 2-4-BEDROOM UNITS, FOR THE PURPOSE OF THIS ANALYSIS IT IS ASSUMED A TOTAL POPULATION OF 4 MARKET RATE UNITS, MULTIPLIER OF 4.0 = 8
 - TOTAL POPULATION= 100-151 PERSONS
 - LOCAL EXPERIENCE FROM THE 2-4-BEDROOM UNITS, FOR THE PURPOSE OF THIS ANALYSIS IT IS ASSUMED A SCHOOL-AGE CHILDREN IN PUBLIC SCHOOL, MULTIPLIER OF 1.0 = 2
 - TOTAL: 14-15 SCHOOL-AGE CHILDREN
 - APPROXIMATELY 2.3 PERSONS AVERAGE PER UNIT TIMES 73 UNITS EQUALS 167-168 PERSONS
 - USING THE SAME FORMAT AS THE PROJECT SUMMARY COMPARISON TABLE, THE TOTAL POPULATION WOULD BE 150-151 PERSONS.
- RUTGERS MULTIPLIERS (PUBLIC SCHOOL CHILDREN)
 - FOR THE 1-4-BEDROOM AFFH RENTAL UNITS, MULTIPLIER OF 0.27 = 0.81
 - FOR THE 4-6 MARKET RATE 2-BEDROOM UNITS, MULTIPLIER OF 0.05 = 2.3; 4-2-BEDROOM AFFH RENTAL UNITS, MULTIPLIER OF 0.45 = 1.8; TOTAL 4.1
 - RUTGERS UNIVERSITY RESIDENTIAL DEMOGRAPHIC MULTIPLIERS (JUNE 2006): NEW YORK, SCHOOL AGE CHILDREN IN PUBLIC SCHOOLS, OWNERSHIP UNITS IN BUILDINGS WITH 5+ UNITS, COSTING MORE THAN \$329,500 (2-BEDROOM)
 - FOR THE 1-4-BEDROOM UNITS, MULTIPLIER OF 0.49 = 7.84
 - RUTGERS UNIVERSITY RESIDENTIAL DEMOGRAPHIC MULTIPLIERS (JUNE 2006): NEW YORK, SCHOOL AGE CHILDREN IN PUBLIC SCHOOLS, OWNERSHIP UNITS IN BUILDINGS WITH 5+ UNITS, ALL VALUES (3 BEDROOMS)
 - RUTGERS HAS NO DATA FOR THE 2-4-BEDROOM UNITS, FOR THE PURPOSE OF THIS ANALYSIS IT IS ASSUMED A SCHOOL-AGE CHILDREN IN PUBLIC SCHOOL, MULTIPLIER OF 1.0 = 2
 - TOTAL: 14-15 SCHOOL-AGE CHILDREN
 - LOCAL EXPERIENCE FROM THE 2-4-BEDROOM UNITS, FOR THE PURPOSE OF THIS ANALYSIS IT IS ASSUMED A SCHOOL-AGE CHILDREN IN PUBLIC SCHOOL, MULTIPLIER OF 1.0 = 2
 - TOTAL: 14-15 SCHOOL-AGE CHILDREN
 - APPROXIMATELY 2.3 PERSONS AVERAGE PER UNIT TIMES 73 UNITS EQUALS 4-5 SCHOOL-AGE CHILDREN
 - USING THE SAME FORMAT AS THE PROJECT SUMMARY COMPARISON TABLE, THE TOTAL POPULATION WOULD BE 150-151 PERSONS.
- INCLUDES APPROXIMATELY 0.41 ACRES OF POROUS PAVEMENT

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING SETBACK LINE
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING STONE WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE AND DESIGNATION
- EXISTING TREE LINE
- EXISTING PAINT
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED SAWCUT LINE
- PROPOSED ACCESSIBLE PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
- PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
- PROPOSED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED POROUS PAVEMENT
- PROPOSED DECORATIVE PAVERS
- PROPOSED RETAINING WALL (DESIGN BY OTHERS)
- PROPOSED FENCE
- PROPOSED 2'-4" WIDE YELLOW LINES 8'-0" O.C.
- PROPOSED 12" WIDE WHITE STOP LINE
- PROPOSED ARROW MARKING ON PAVEMENT
- TRAFFIC SIGN LOCATION & DESIGNATION
- PEDESTRIAN CROSSING

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, PLLC, LAST REVISED 03/06/2013.



| No. | Revision | Date | By | App. |
|-----|---------------------------|------------|----|------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2020 | NC | AG |
| 2. | RESPONSE TO TOWN COMMENTS | 05/08/2021 | NC | AG |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | NC | AG |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 | NC | AG |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEDFORD ROAD - ARMONK, NY 10504
 PHONES: 914.333.2422 - FAX: 914.243.2102
 www.jmc.com

JMC

OVERALL AND PHASING PLAN
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. GERMIE, P.E.
 KELLARD SESSIONS CONSULTING, P.C.
 CONSULTING TOWN ENGINEER

Scale: 1" = 30'

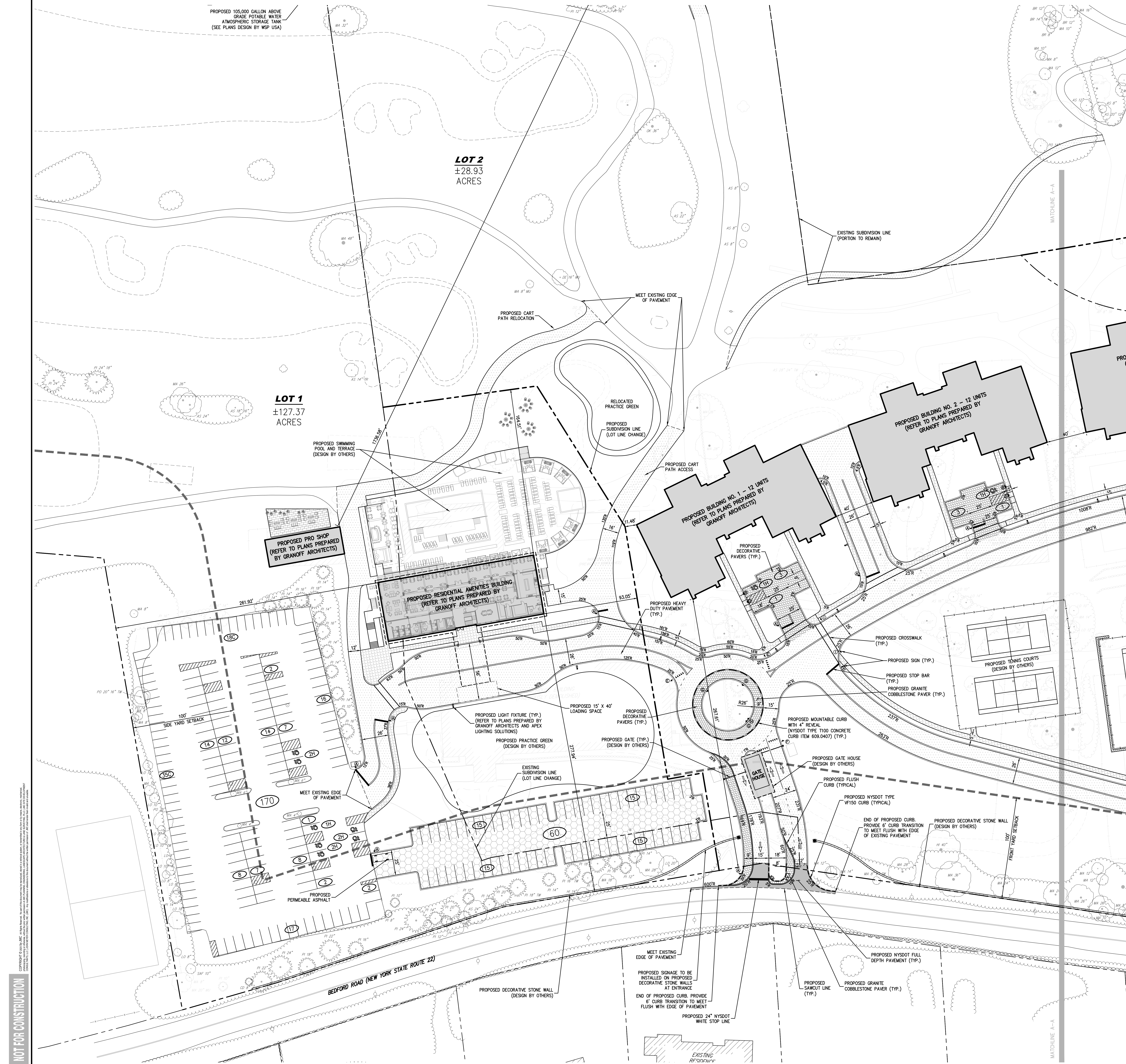
Date: 11/23/2020

Project No: 20101

DATE: _____

C-100A

NOT FOR CONSTRUCTION



| LEGEND | |
|--------|--|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | EXISTING SETBACK LINE |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING BUILDING LINE |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING STONE WALL |
| | EXISTING GUIDE RAIL |
| | EXISTING FENCE |
| | EXISTING TREE AND DESIGNATION |
| | EXISTING TREE LINE |
| | EXISTING PAINT |
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| | PROPOSED BUILDING LINE |
| | PROPOSED CONCRETE CURB |
| | PROPOSED SAWCUT LINE |
| | PROPOSED ACCESSIBLE PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS) |
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| | PROPOSED 2-4" WIDE YELLOW LINES 8" O.C. |
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| | PROPOSED ARROW MARKING ON PAVEMENT |
| | TRAFFIC SIGN LOCATION & DESIGNATION |
| | PEDESTRIAN CROSSING |

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LLC, LAST REVISED 03/06/2013.

SIGN TABLE

| EXISTING SIGN NUMBER | SIGN | SIZE | DESCRIPTION | MARKING TYPE | MARKING HEIGHT | REGULATORY | RECYCLED |
|----------------------|------|--------------------|-----------------------|---------------|----------------|---------------|----------|
| A | | 30"x30" | WHITE ON RED | STEEL CHANNEL | 7'-0" | R1-1 | X |
| B | | 12"x18" | GREEN & BLUE ON WHITE | STEEL CHANNEL | 7'-0" | R7-8 | X |
| C | | 12"x18" 12"x6" | GREEN & BLUE ON WHITE | STEEL CHANNEL | 7'-0" | R7-8 R7-8A | X |
| D | | 12"x18" | RED ON WHITE | STEEL CHANNEL | 7'-0" | NP1-2 | X |
| E | | 30"x30"x30" | RED ON WHITE | STEEL CHANNEL | 7'-0" | R1-2 | X |
| F | | 30"x30"x30" | RED ON WHITE | STEEL CHANNEL | 6'-0" | R1-2 | X |
| G | | 30"x24" | BLACK ON WHITE | STEEL CHANNEL | 7'-0" | R6-4 | X |
| H | | 30"x30" | BLACK ON WHITE | STEEL CHANNEL | 7'-0" | NW3-15 | X |
| I | | 30"x30" 24"x12" | BLACK ON YELLOW | STEEL CHANNEL | 7'-0" | W16-7PL | X |

APPLICANT: SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06850

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1 | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2 | RESPONSE TO TOWN COMMENTS | 05/08/2021 |
| 3 | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4 | RESPONSE TO TOWN COMMENTS | 07/07/2021 |

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10504
PHONE: 914.333.3232 - FAX: 914.233.2102
www.jmcp.com

SITE LAYOUT (SOUTH)

THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

DATE: _____

CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

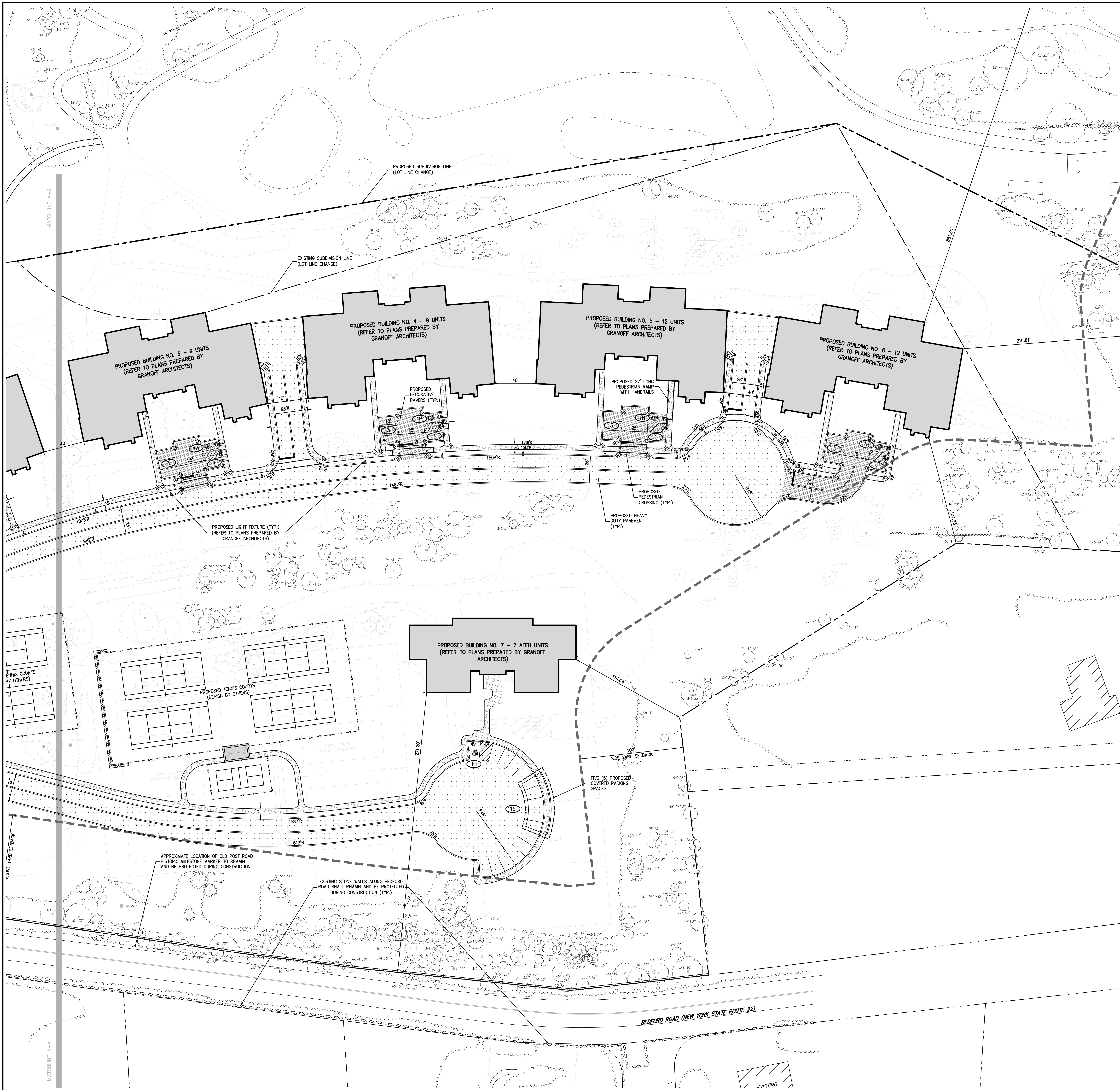
DATE: _____

JOSEPH M. GERNILE, P.E.
KELLARD SESSIONS CONSULTING, P.C.
CONSULTING TOWN ENGINEER

| Drawn | NC | Approved | AG |
|--------------|----------------|----------|----|
| Scale: | 1" = 30' | | |
| Date: | 11/23/2020 | | |
| Project No.: | 20101 | | |
| Sheet No.: | LA1011 (50% N) | LA101 | |

C-100

NOT FOR CONSTRUCTION



LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING SETBACK LINE
- EXISTING WETLAND LINE AND DELINEATION
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NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, PLLC, LAST REVISED 03/06/2013.

SIGN TABLE

| DESIGNATION NUMBER | SHOW | SIZE | DESCRIPTION | MONUMENT TYPE | MONUMENT HEIGHT | REGULATORY | RECOMMENDED |
|--------------------|------|-------------|-----------------------|---------------|-----------------|---------------|-------------|
| A | | 30"x30" | WHITE ON RED | STEEL CHANNEL | 7'-0" | R1-1 | X |
| B | | 12"x18" | GREEN & BLUE ON WHITE | STEEL CHANNEL | 7'-0" | R7-8 | X |
| C | | 12"x18" | GREEN & BLUE ON WHITE | STEEL CHANNEL | 7'-0" | R7-8 R7-8A | X |
| D | | 12"x18" | RED ON WHITE | STEEL CHANNEL | 7'-0" | NYP1-2 | X |
| E | | 30"x30"x30" | RED ON WHITE | STEEL CHANNEL | 7'-0" | R1-2 | X |
| F | | 30"x30"x30" | BLACK ON WHITE | STEEL CHANNEL | 6'-0" | R1-2 | X |
| G | | 30"x30" | BLACK ON YELLOW | STEEL CHANNEL | 6'-0" | NYWS-15 | X |
| H | | 30"x30" | BLACK ON WHITE | STEEL CHANNEL | 7'-0" | R6-4 | X |
| I | | 30"x30" | BLACK ON WHITE | STEEL CHANNEL | 7'-0" | NYWS-15 | X |
| J | | 30"x30" | BLACK ON WHITE | STEEL CHANNEL | 7'-0" | W11-2 W16-7.5 | X |

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

DATE: _____

CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

DATE: _____

JOSEPH M. CERNIELE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

APPLICANT: **SUMMIT CLUB PARTNERS, LLC**
568 BEDFORD ROAD (NY-22) ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
330 RAILROAD AVENUE GREENWICH, CT 06850

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/08/2021 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 |

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10504
PHONE: 914.233.2222 - FAX: 914.233.2102
www.jmcpic.com

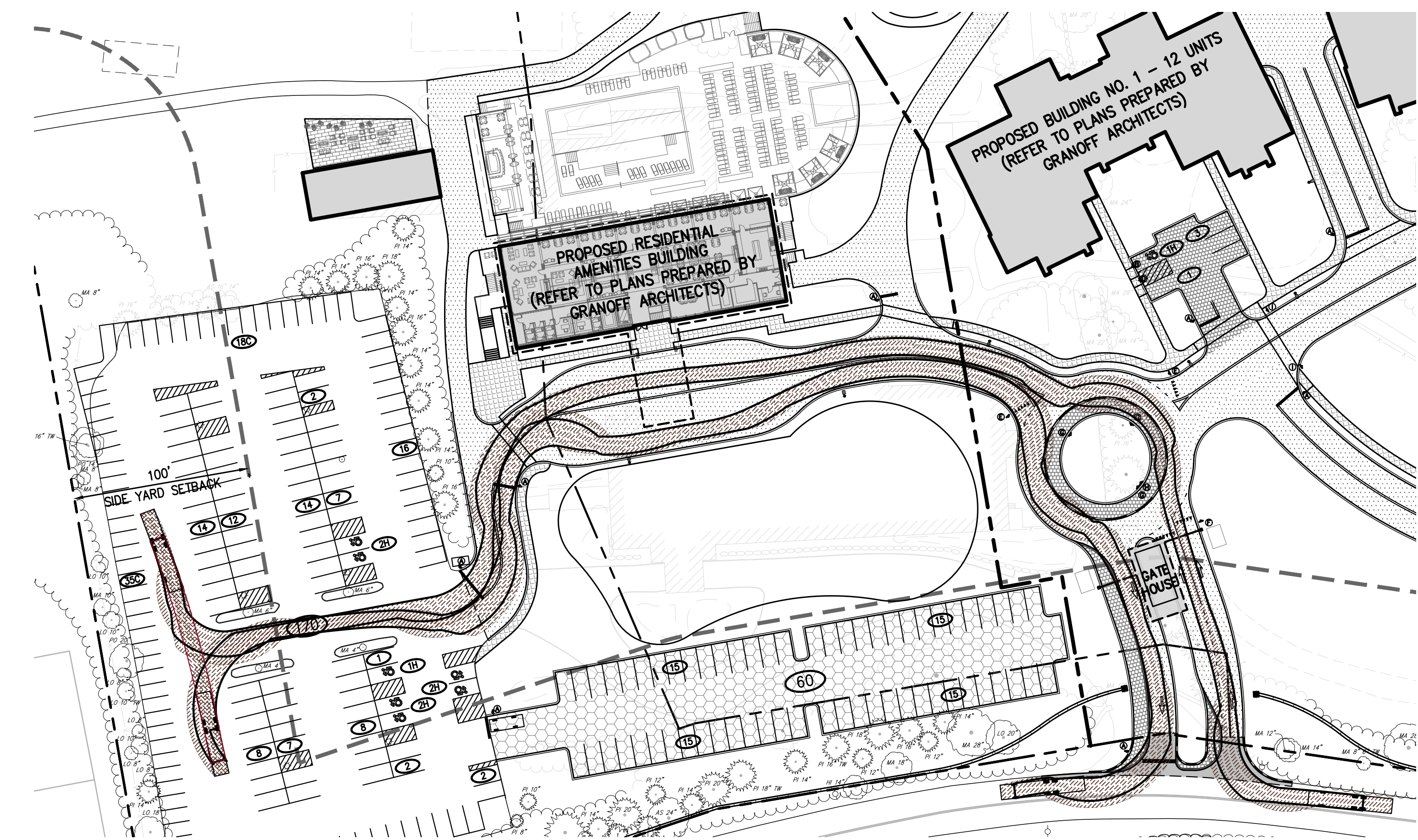
SITE LAYOUT (NORTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22) ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

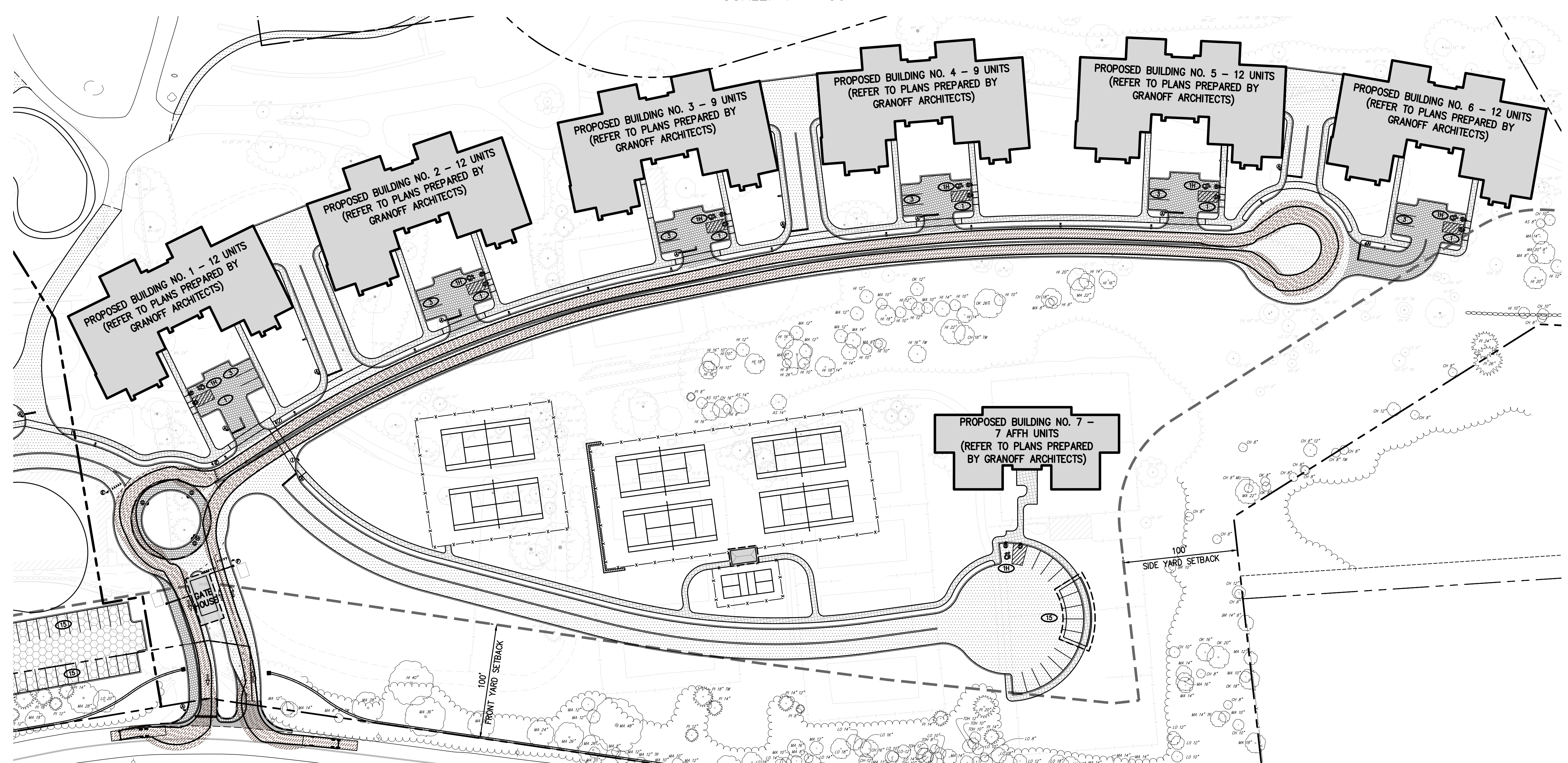
NOT FOR CONSTRUCTION

| FIRE TRUCK PROFILE | |
|---------------------------|----------|
| | |
| E-ONE HP95 Mid Mount | 47.750ft |
| Overall Length | 47.750ft |
| Overall Width | 7.917ft |
| Overall Body Height | 12.417ft |
| Min Body Ground Clearance | 6.833ft |
| Track Width | 6.000ft |
| Lock-to-lock time | 2.00s |
| Max Wheel Angle | 45.00° |

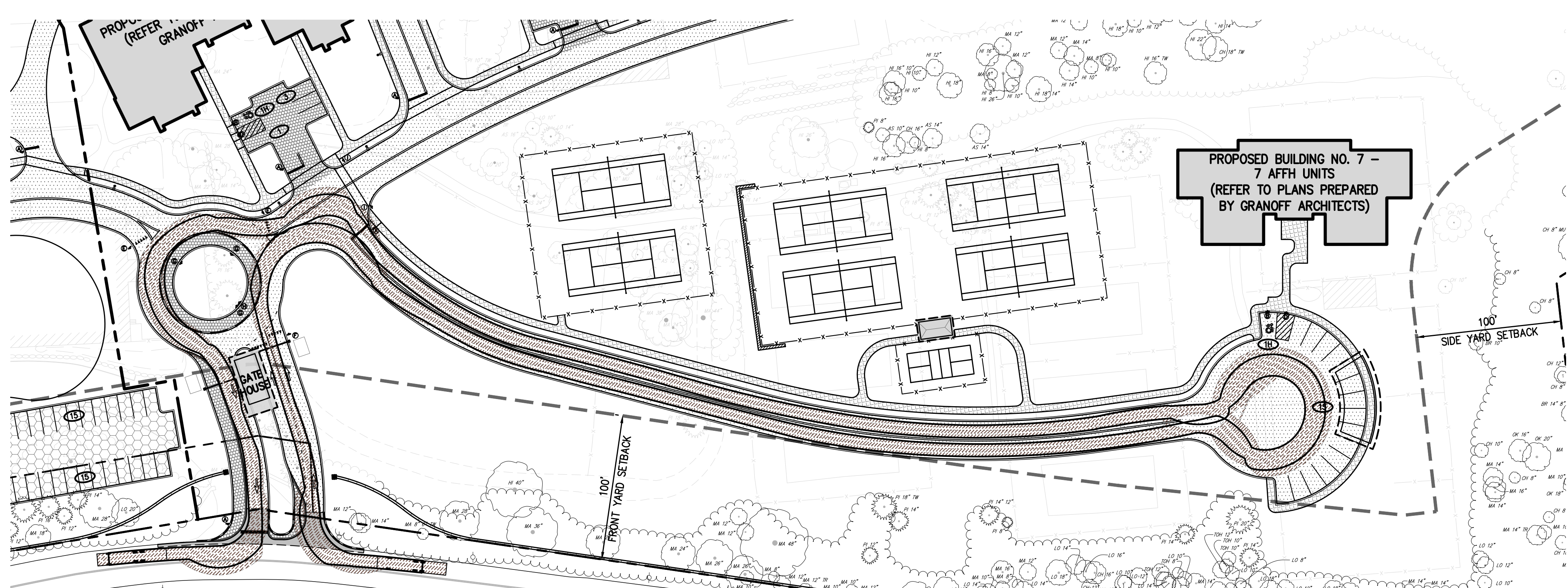
| No. | Rev. | Date | By |
|-----|---------------------------|------------|----|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 | NC |
| 2. | RESPONSE TO TOWN COMMENTS | 05/08/2021 | NC |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | NC |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 | NC |



ROAD A FIRE TRUCK TURNING ANALYSIS
SCALE: 1" = 50'



ROAD B FIRE TRUCK TURNING ANALYSIS
SCALE: 1" = 50'

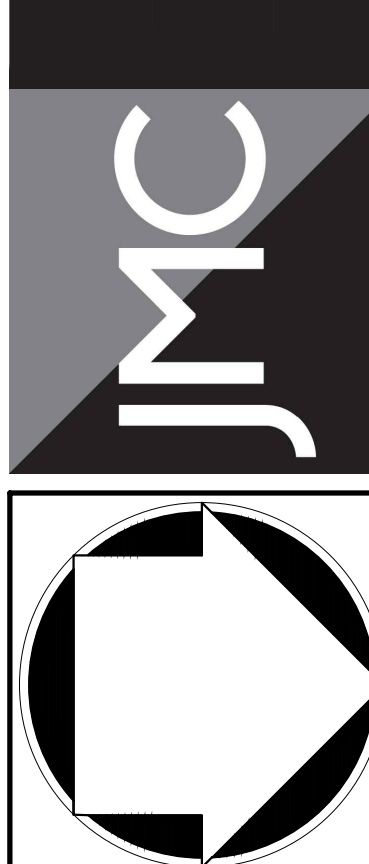


ROAD C FIRE TRUCK TURNING ANALYSIS
SCALE: 1" = 50'

APPLICANT/OWNER:
SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT:
GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
120 BEDFORD ROAD • ARMONK, NY 10504
PH: 914.233.2424 • FAX: 914.233.2102
www.jmcpic.com



FIRE TRUCK ACCESS PLAN
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

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APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. GEMBLE, P.E., KELLARD SESSIONS CONSULTING, P.C., CONSULTING TOWN ENGINEER

| Drawn | NC | Approved | AG |
|--------------|---------------|----------|-------|
| Scale: | AS SHOWN | | |
| Date: | 11/23/2020 | | |
| Project No.: | 20101 | | |
| Sheet Label: | TRUCK TURNING | of | LX140 |
| Sheet No.: | | | |

C-102

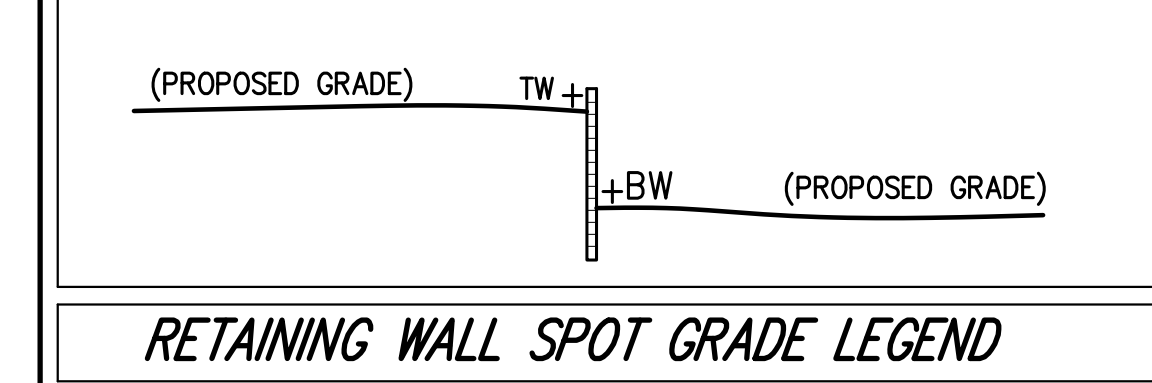
NOT FOR CONSTRUCTION



LEGEND

| | |
|--|---|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | EXISTING EASEMENT LINE |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING BUILDING OVERHANG |
| | EXISTING BUILDING LINE |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING CONTOUR |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING FENCE RAIL |
| | EXISTING FENCE |
| | EXISTING DRAIN INLET |
| | EXISTING MANHOLE |
| | EXISTING UTILITY POLE |
| | EXISTING LIGHT POLE |
| | EXISTING SIGN |
| | PROPOSED BUILDING LINE |
| | PROPOSED CONCRETE CURB |
| | PROPOSED CONCRETE SIDEWALK |
| | PROPOSED DROP CURB AND RAMP |
| | PROPOSED FINISHED GRADE |
| | PROPOSED SPOT GRADE |
| | PROPOSED SANITARY SEWER MANHOLE |
| | PROPOSED STORM DRAIN MANHOLE |
| | PROPOSED TYPE CI DRAIN INLET |
| | PROPOSED TYPE DI DRAIN INLET |
| | PROPOSED HEADWALL |
| | PROPOSED SUBSURFACE DRAINAGE OUTLET CONTROL STRUCTURE |
| | PROPOSED RETAINING WALL (DESIGN BY OTHERS) |
| | BORING LOCATION AND DESIGNATION |
| | PROPOSED LIMIT OF DISTURBANCE |

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.
 - GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION," DATED 10/16/2013, PREPARED BY CARLIN-SIMPSON & ASSOCIATES.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.

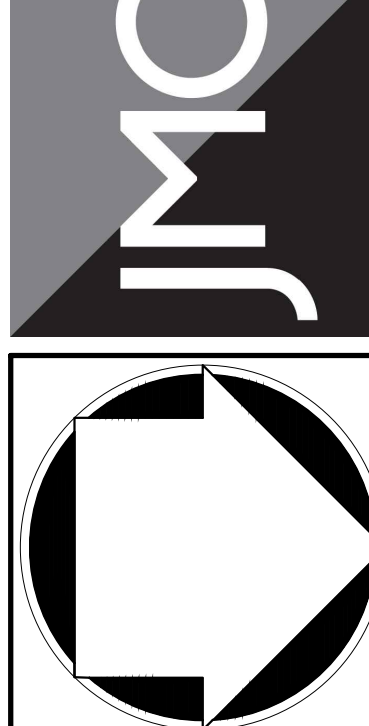


APPLICANT/OWNER: SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06850

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/09/2022 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2022 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 |

JMC Planning & Engineering, Landscape Architecture & Land Surveying, PLLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD - ARMONK, NY 10504
PHONE: 914.233.2222 - FAX: 914.233.2102
www.jmcpllc.com



SITE GRADING PLAN (SOUTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. CERNILE, P.E. KELLARD SESSONS CONSULTING, P.C. CONSULTING TOWN ENGINEER
SARA RICHEL, 12 ELIZABETH

Drawn: NC Approved: AG
Scale: 1" = 30'
Date: 11/23/2020
Project No.: 20101
DWG: GRAD-0000 GRAD-0001 GRAD-01
Drawing No.: **C-200**

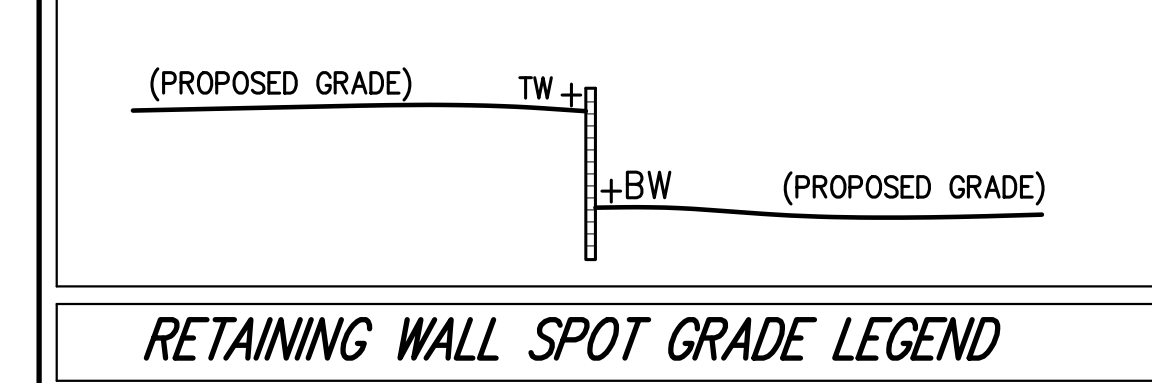
NOT FOR CONSTRUCTION



LEGEND

| | |
|--|---|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | EXISTING EASEMENT LINE |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING BUILDING OVERHANG |
| | EXISTING BUILDING LINE |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING FENCE RAIL |
| | EXISTING GUIDE |
| | EXISTING DRAIN INLET |
| | EXISTING MANHOLE |
| | EXISTING UTILITY POLE |
| | EXISTING LIGHT POLE |
| | EXISTING SIGN |
| | PROPOSED BUILDING LINE |
| | PROPOSED CONCRETE CURB |
| | PROPOSED CONCRETE SIDEWALK |
| | PROPOSED DROP CURB AND RAMP |
| | PROPOSED FINISHED GRADE |
| | PROPOSED SPOT GRADE |
| | PROPOSED SANITARY SEWER MANHOLE |
| | PROPOSED STORM DRAIN MANHOLE |
| | PROPOSED TYPE CI DRAIN INLET |
| | PROPOSED TYPE DI DRAIN INLET |
| | PROPOSED HEADWALL |
| | PROPOSED SUBSURFACE DRAINAGE OUTLET CONTROL STRUCTURE |
| | PROPOSED RETAINING WALL (DESIGN BY OTHERS) |
| | BORING LOCATION AND DESIGNATION |
| | PROPOSED LIMIT OF DISTURBANCE |

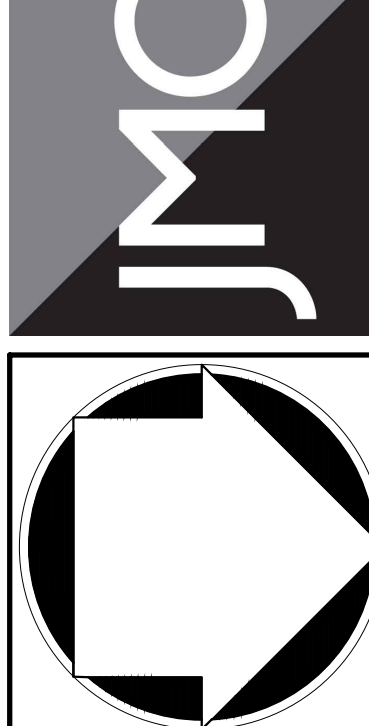
- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.
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| | |
|---------------------------|---------------------------|
| By | NC |
| Date | 07/17/2020 |
| Revised | 03/06/2021 |
| No. | 1 |
| Response to Town Comments | RESPONSE TO TOWN COMMENTS |
| No. | 2 |
| Response to Town Comments | RESPONSE TO TOWN COMMENTS |
| No. | 3 |
| Response to Town Comments | RESPONSE TO TOWN COMMENTS |
| No. | 4 |
| Response to Town Comments | RESPONSE TO TOWN COMMENTS |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
 330 RAILROAD AVENUE
 GREENWICH, CT 06850



SITE GRADING PLAN (NORTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

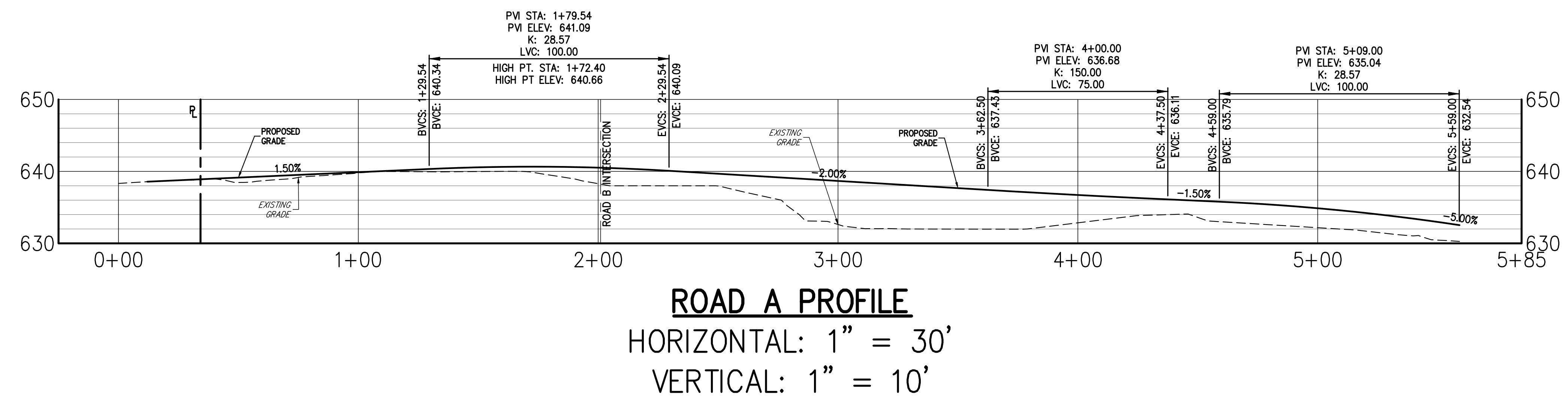
CHRISTOPHER CARTHAY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. GEMBLE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER DATE: _____

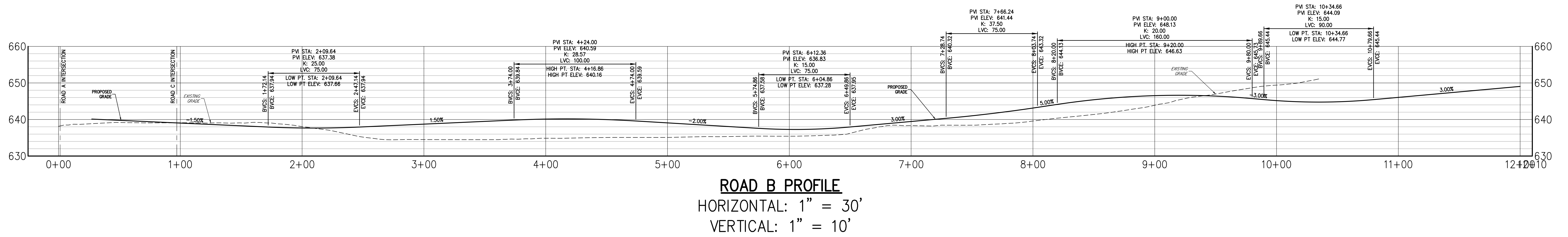
Drawn: NC Approved: AG
 Scale: 1" = 30'
 Date: 11/23/2020
 Project No: 20101
 2010-0000: GRAD NORTH 09/01/20
 Drawing No: **C-201**

NOT FOR CONSTRUCTION

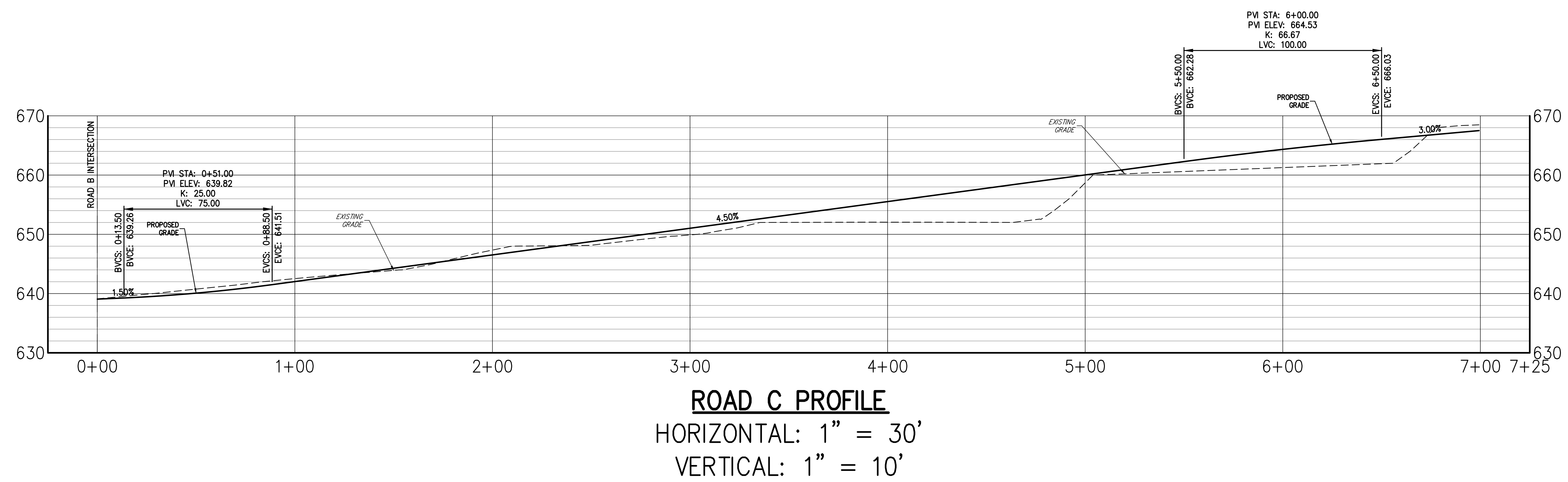
SARA RICHELSON
 11 FLEETWOOD DR NW



ROAD A PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



ROAD B PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



ROAD C PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'

NOT FOR CONSTRUCTION

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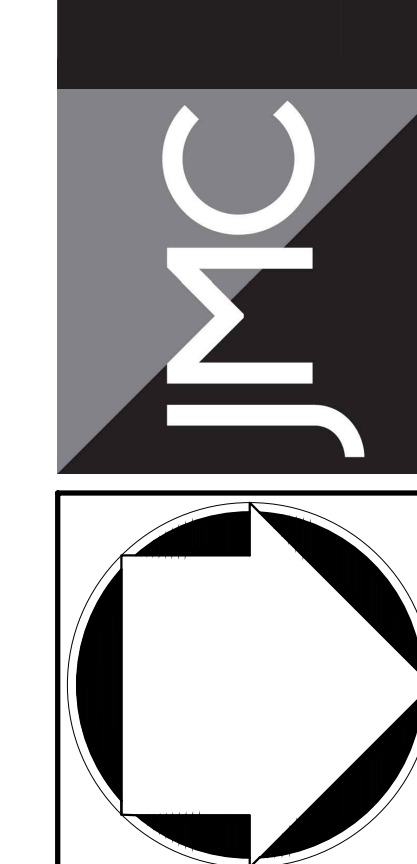
APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
 Scale: AS SHOWN
 Christopher Carthy, Chairman
 Town of North Castle Planning Board
 Engineering Drawings Reviewed by Town Consulting Engineer
 Joseph M. Gernie, P.E.
 Kellard Sessions Consulting, P.C.
 Consulting Town Engineer

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/08/2021 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2021 |

APPLICANT/OWNER:
SUMMIT CLUB PARTNERS, LLC
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

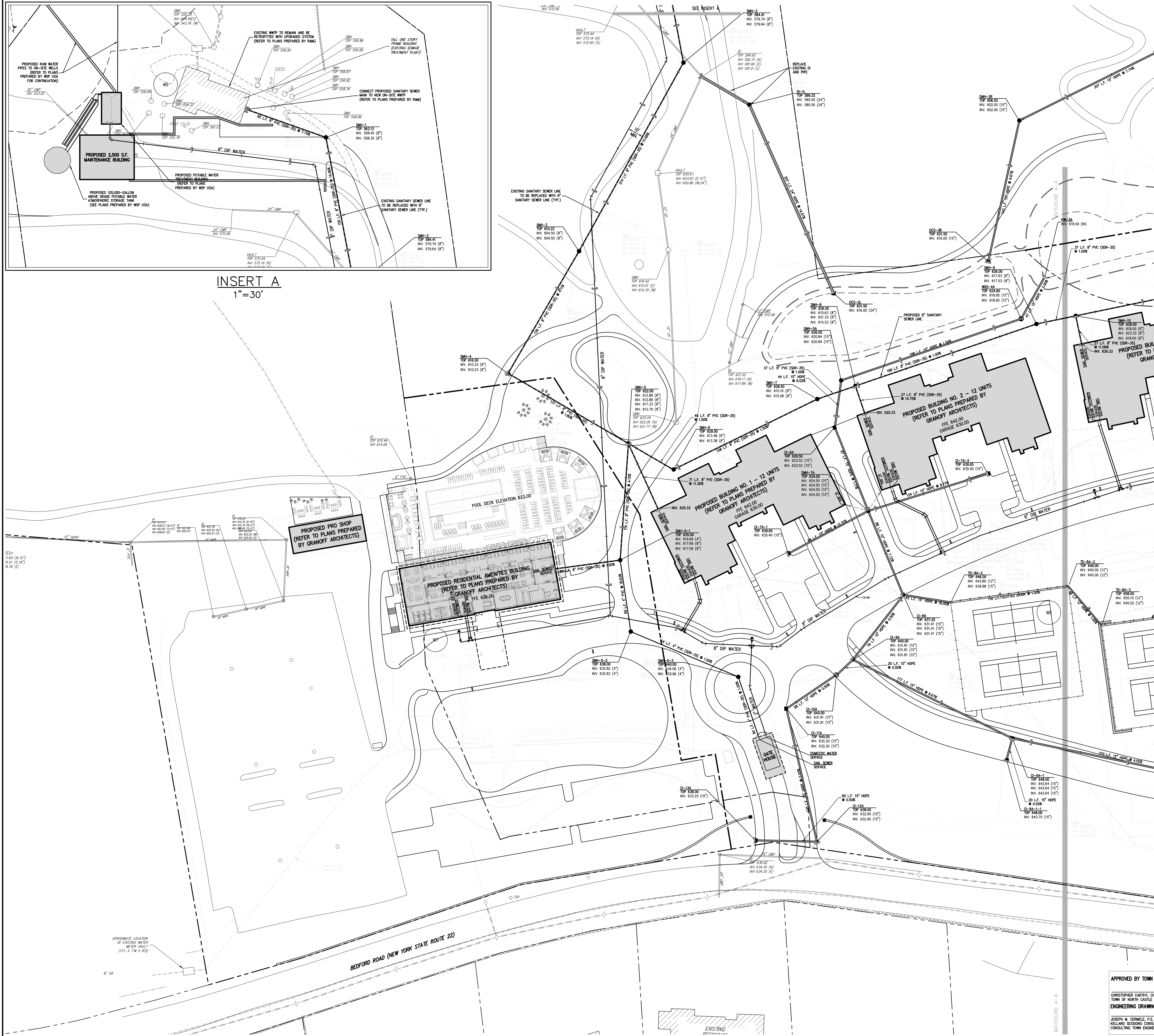
ARCHITECT:
GRANOFF ARCHITECTS
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMS Site Development Consultants, LLC
 JMC Meyer Consulting, LLC
 120 BEDFORD ROAD • ARMONK, NY 10504
 PH: 914-233-2102 • FAX: 914-233-2102
 www.jmcpllc.com



ROAD PROFILES PLAN
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

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INSERT A
1" = 30'

LEGEND

| | |
|----------|---|
| [Symbol] | EXISTING PROPERTY LINE |
| [Symbol] | ADJACENT PROPERTY LINE |
| [Symbol] | EXISTING EASEMENT LINE |
| [Symbol] | EXISTING BUILDING OVERHANG |
| [Symbol] | EXISTING BUILDING LINE |
| [Symbol] | EXISTING PAVEMENT EDGE |
| [Symbol] | EXISTING CURB LINE |
| [Symbol] | EXISTING CONTOUR |
| [Symbol] | EXISTING INDEX CONTOUR |
| [Symbol] | EXISTING STONE WALL |
| [Symbol] | EXISTING RETAINING WALL |
| [Symbol] | EXISTING GUIDE RAIL |
| [Symbol] | EXISTING FENCE |
| [Symbol] | EXISTING STORM DRAIN LINE AND SIZE |
| [Symbol] | EXISTING SANITARY LINE AND SIZE |
| [Symbol] | EXISTING WATER LINE |
| [Symbol] | EXISTING GAS LINE |
| [Symbol] | EXISTING OVERHEAD WIRES |
| [Symbol] | EXISTING GRAB INLET |
| [Symbol] | EXISTING MANHOLE |
| [Symbol] | EXISTING FIRE HYDRANT |
| [Symbol] | EXISTING GAS VALVE |
| [Symbol] | EXISTING WATER VALVE |
| [Symbol] | EXISTING UTILITY POLE |
| [Symbol] | EXISTING LIGHT POLE |
| [Symbol] | EXISTING SIGN |
| [Symbol] | PROPOSED BUILDING LINE |
| [Symbol] | PROPOSED CONCRETE CURB |
| [Symbol] | PROPOSED CONCRETE SIDEWALK |
| [Symbol] | PROPOSED CURB AND RAMP |
| [Symbol] | PROPOSED SANITARY SEWER MANHOLE |
| [Symbol] | PROPOSED STORM DRAIN MANHOLE |
| [Symbol] | PROPOSED TYPE C DRAIN INLET |
| [Symbol] | PROPOSED TYPE D DRAIN INLET |
| [Symbol] | PROPOSED HEADWALL |
| [Symbol] | PROPOSED SUBSURFACE DRAINAGE OUTLET CONTROL STRUCTURE |
| [Symbol] | PROPOSED HYDRANT |
| [Symbol] | PROPOSED STORM DRAIN LINE & SIZE |
| [Symbol] | PROPOSED SANITARY SEWER LINE & SIZE |
| [Symbol] | PROPOSED WATER LINE & SIZE |
| [Symbol] | PROPOSED GAS LINE |
| [Symbol] | PROPOSED ELECTRIC/TELEPHONE/CABLE |
| [Symbol] | PROPOSED WATER VALVE |
| [Symbol] | PROPOSED GAS VALVE |
| [Symbol] | PROPOSED RETAINING WALL (DESIGN BY OTHERS) |

- NOTES**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED "TOPOGRAPHIC MAP" PREPARED BY JMC LAST REVISED 03/06/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY, NY.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER, DURING CONSTRUCTION OF THE PROJECT THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DECREASE VEHICLE TRAFFIC.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNUAL EXTERIOR CORROSIONS IN ACCORDANCE WITH ASTM F-1248. JOINTS SHALL BE WATER TIGHT IN ACCORDANCE WITH ASTM D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRADIENT LINES SHALL BE POLYPROPYLENE GLASS REINFORCED (PPR) 15" WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CORNED-LINED DUCTILE IRON PIPE (DIP), CLASS 52, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM A-156, C-151, C-104 AND C-111.
 - ELECTRIC, TELEPHONE, FIRE ALARM AND CABLE TELEVISION LINES SHALL BE INSTALLED UNDERGROUND IN CONDUIT IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.

REVISIONS

| No. | Date | By | NC | Approved | AG |
|-----|------------|----|----|----------|----|
| 1. | 07/17/2021 | NC | NC | | |
| 2. | 03/08/2021 | NC | NC | | |
| 3. | 06/14/2021 | NC | NC | | |
| 4. | 07/07/2021 | NC | NC | | |

Applicant: **SUMMIT CLUB PARTNERS, LLC**
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504
 Architect: **GRANOFF ARCHITECTS**
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

JMC
 JMC Planning, Engineering, Landscaping, Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 Julia Meyer Consulting, Inc.
 120 BEDFORD ROAD - ARMONK, NY 10504
 PHONE: 914.333.3232 - FAX: 914.293.2102
 www.jmcpnc.com

SITE PRELIMINARY UTILITIES PLAN (SOUTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

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APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

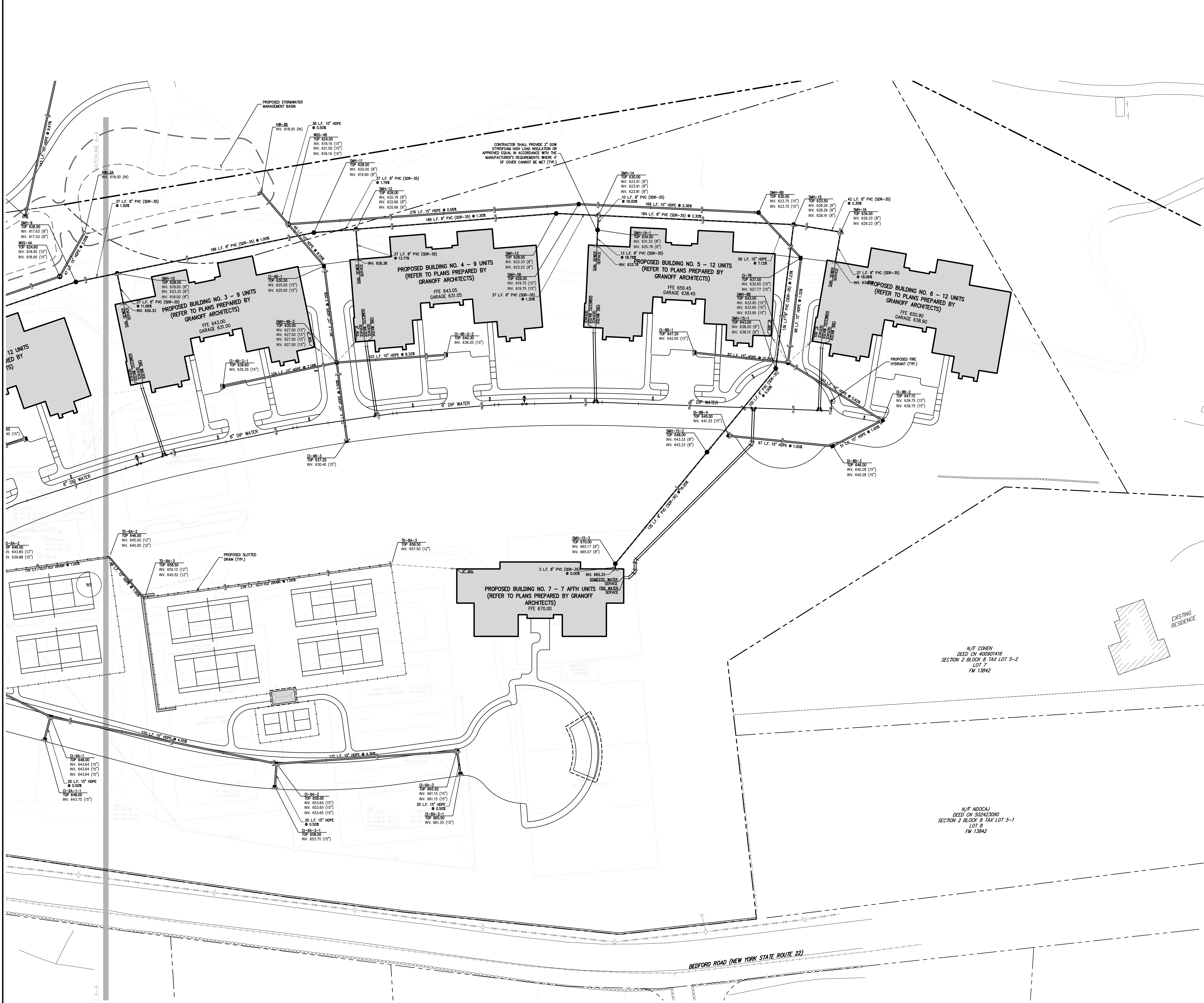
CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. CERNIELE, P.E.
 KELLARD SESSIONS CONSULTING, P.C.
 CONSULTING TOWN ENGINEER

Scale: 1" = 30'
 Date: 11/23/2020
 Project No: 20101
 Drawing No: UTIL SOUTH UTIL-01

C-300

NOT FOR CONSTRUCTION



LEGEND

| | |
|--|---|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | EXISTING EASEMENT LINE |
| | EXISTING BUILDING OVERHANG |
| | EXISTING BUILDING LINE |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING GUIDE RAIL |
| | EXISTING FENCE |
| | EXISTING STORM DRAIN LINE AND SIZE |
| | EXISTING GAS LINE |
| | EXISTING OVERHEAD WIRES |
| | EXISTING INLET |
| | EXISTING MANHOLE |
| | EXISTING FIRE HYDRANT |
| | EXISTING GAS VALVE |
| | EXISTING WATER VALVE |
| | EXISTING UTILITY POLE |
| | EXISTING SIGN |
| | PROPOSED BUILDING LINE |
| | PROPOSED CONCRETE CURB |
| | PROPOSED CONCRETE SIDEWALK |
| | PROPOSED STORM DRAIN AND RAMP |
| | PROPOSED SANITARY SEWER MANHOLE |
| | PROPOSED STORM DRAIN MANHOLE |
| | PROPOSED TYPE C DRAIN INLET |
| | PROPOSED TYPE D DRAIN INLET |
| | PROPOSED HEADWALL |
| | PROPOSED SUBSURFACE DRAINAGE OUTLET CONTROL STRUCTURE |
| | PROPOSED HYDRANT |
| | PROPOSED STORM DRAIN LINE & SIZE |
| | PROPOSED SANITARY SEWER LINE & SIZE |
| | PROPOSED WATER LINE & SIZE |
| | PROPOSED GAS LINE |
| | PROPOSED ELECTRIC/TELEPHONE/CABLE |
| | PROPOSED WATER VALVE |
| | PROPOSED GAS VALVE |
| | PROPOSED RETAINING WALL (DESIGN BY OTHERS) |

- NOTES**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED "TOPOGRAPHIC MAP" PREPARED BY JMC LAST REVISED 03/09/2013. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY, NY.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER, DURING CONSTRUCTION OF THE PROJECT THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DECREASE VEHICLE TRAFFIC.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS IN ACCORDANCE WITH ASTM F-394. JOINTS SHALL BE WATER TIGHT IN ACCORDANCE WITH ASTM D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE POLYPROPYLENE PIPE (PPR) 100-150 WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
 - UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CORNED-ENDED DUCTILE IRON PIPE (DIP), CLASS 52, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ANMA C-150, C-151, C-104 AND C-111.
 - ELECTRIC, TELEPHONE, FIRE ALARM AND CABLE TELEVISION LINES SHALL BE INSTALLED UNDERGROUND IN CONDUIT IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.

REVISIONS

| No. | Date | By | Revised |
|-----|------------|----|---------------------------|
| 1. | 07/17/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 2. | 03/08/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 3. | 06/14/2021 | NC | RESPONSE TO TOWN COMMENTS |
| 4. | 07/07/2022 | NC | RESPONSE TO TOWN COMMENTS |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
330 RAILROAD AVENUE
GREENWICH, CT 06850

JMC
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
120 BEDFORD ROAD - ARMONK, NY 10504
PH: 914-333-3242 - FAX: 914-233-2102
www.jmcp.com

SITE PRELIMINARY UTILITIES PLAN (NORTH)
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

DATE: _____

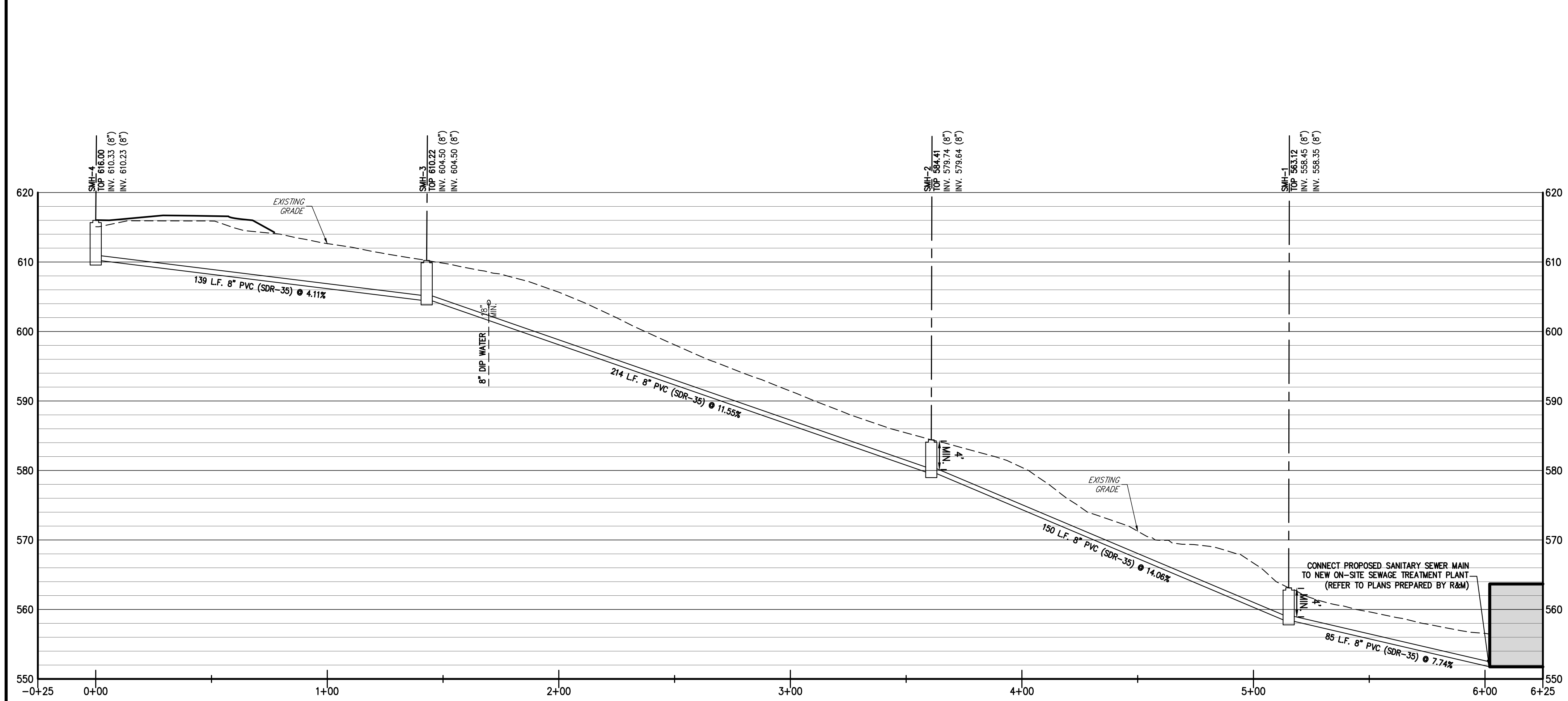
CHRISTOPHER CATHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. GEMBLE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

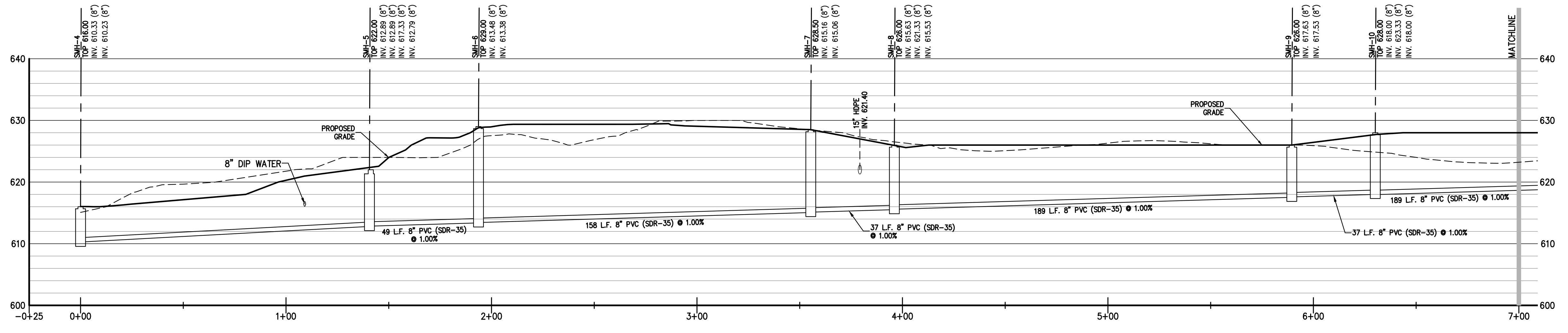
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|----------------|------------|----------|----|
| Drawn | NC | Approved | AG |
| Scale: | 1" = 30' | | |
| Date: | 11/23/2020 | | |
| Project No.: | 20101 | | |
| Sheet No.: | UTL NORTH | UTL 201 | |
| Drawing Title: | | | |

C-301

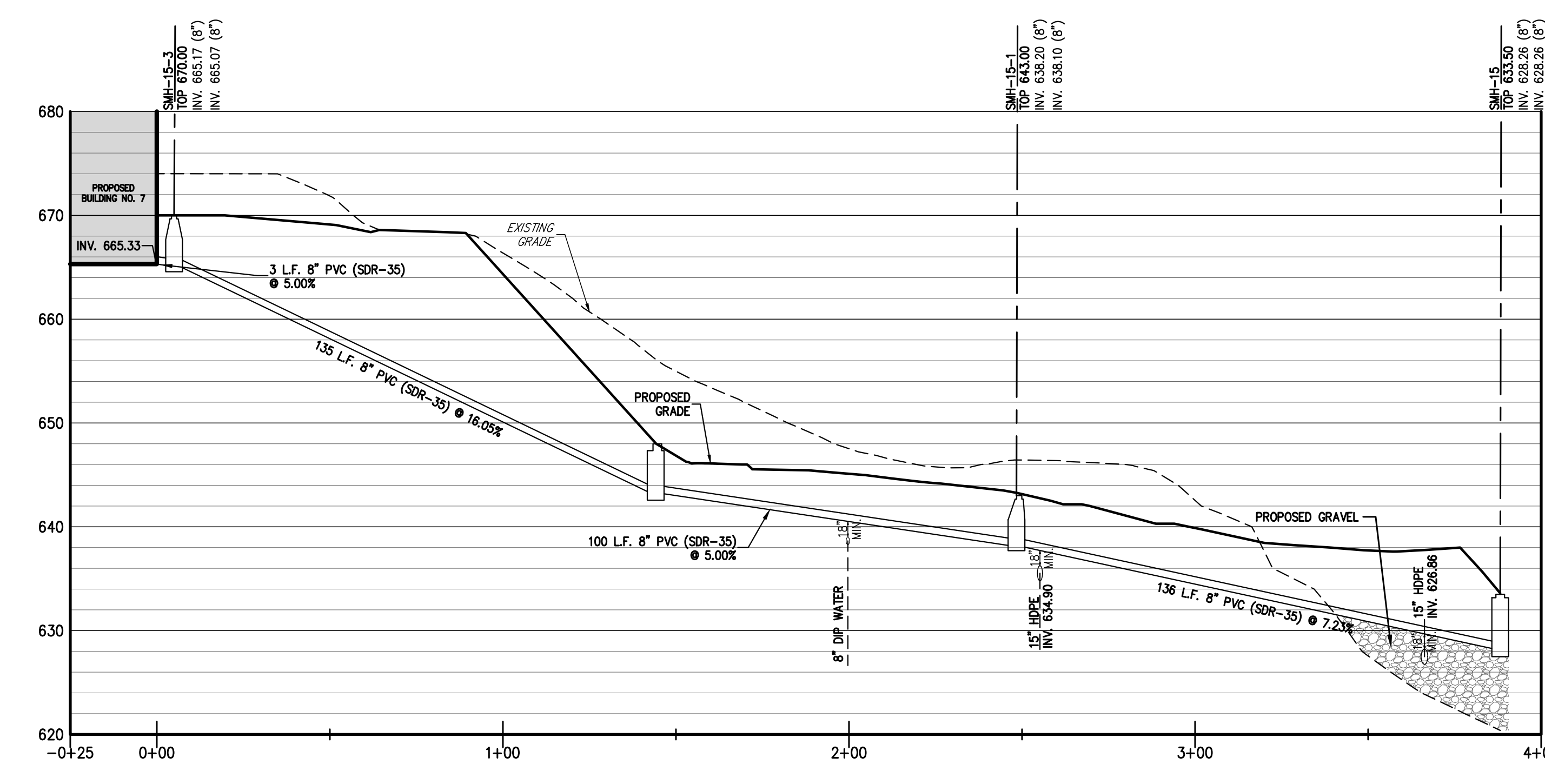
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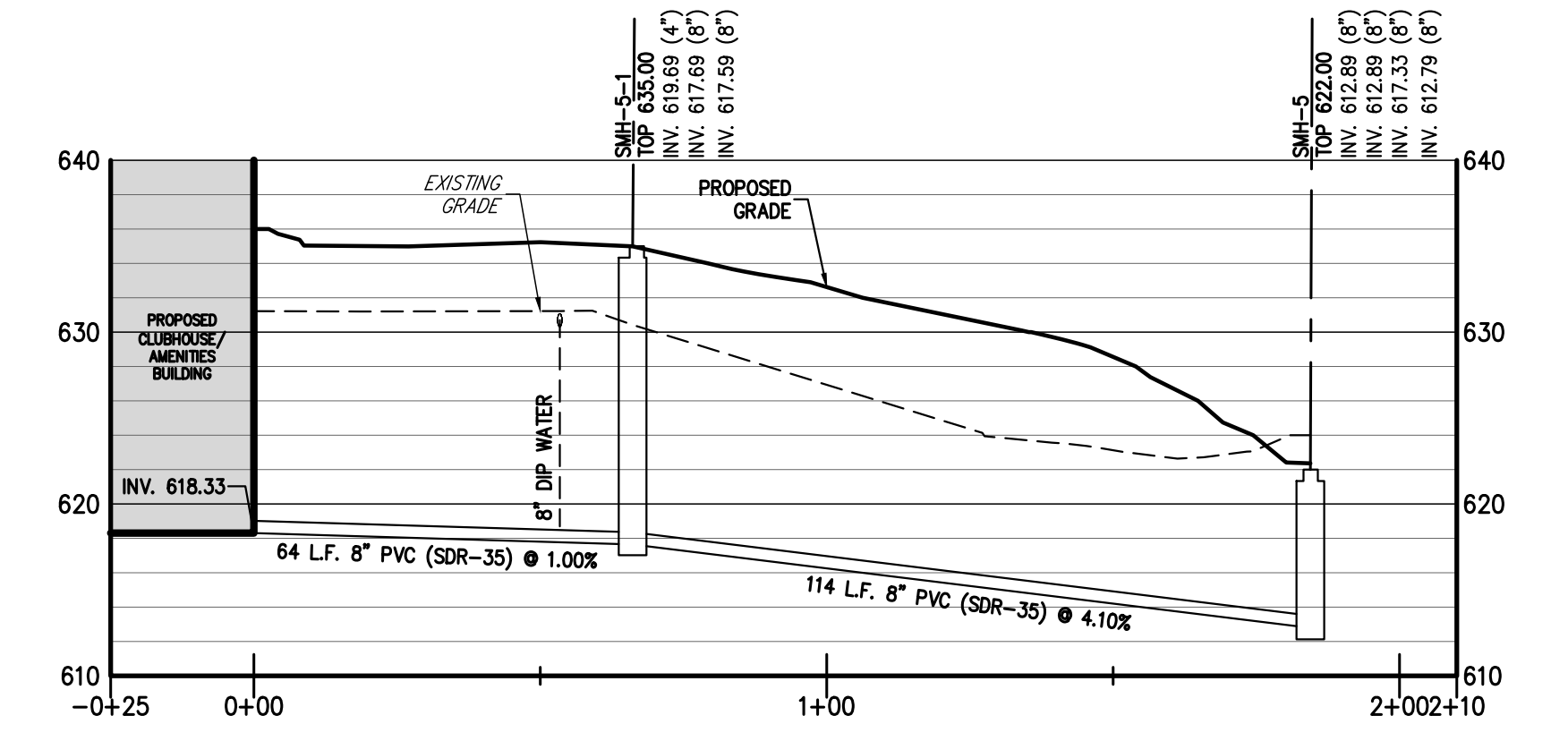
OSTP TO SMH-4 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



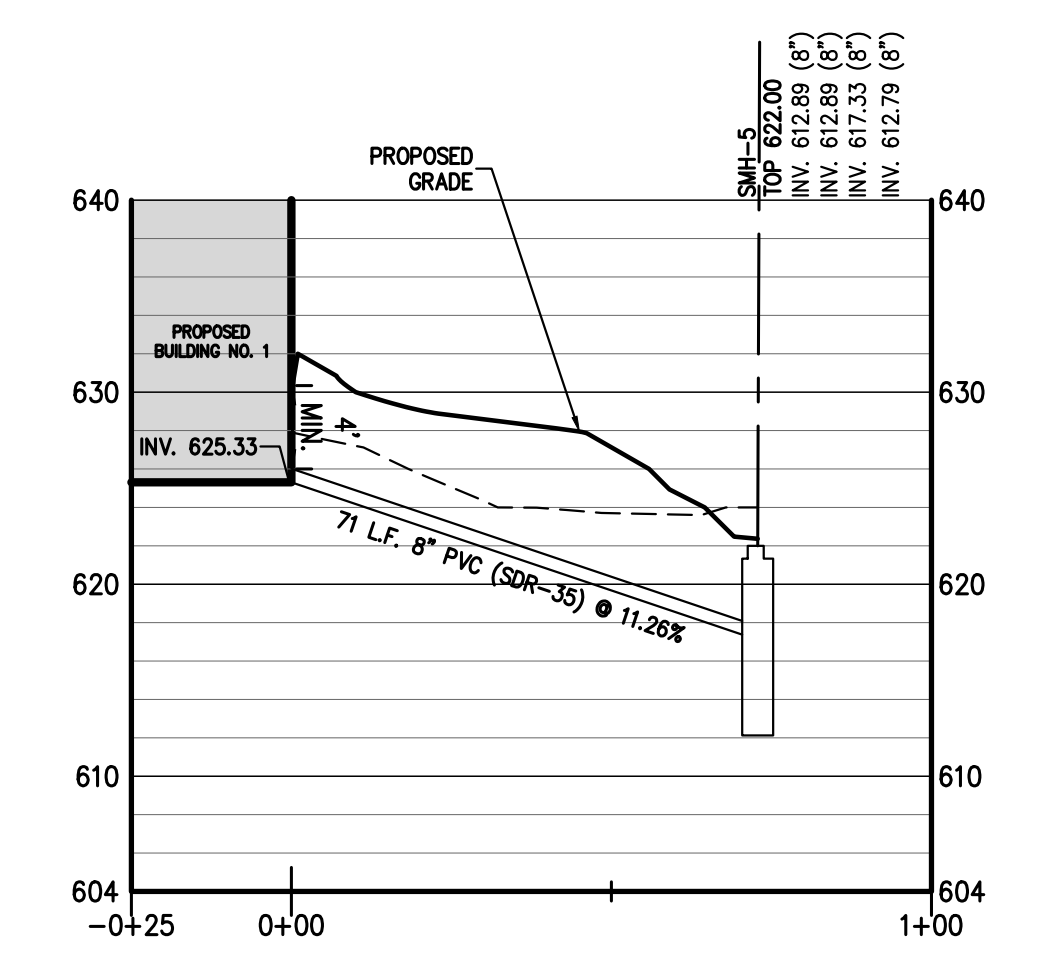
SMH-4 TO SMH-16 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



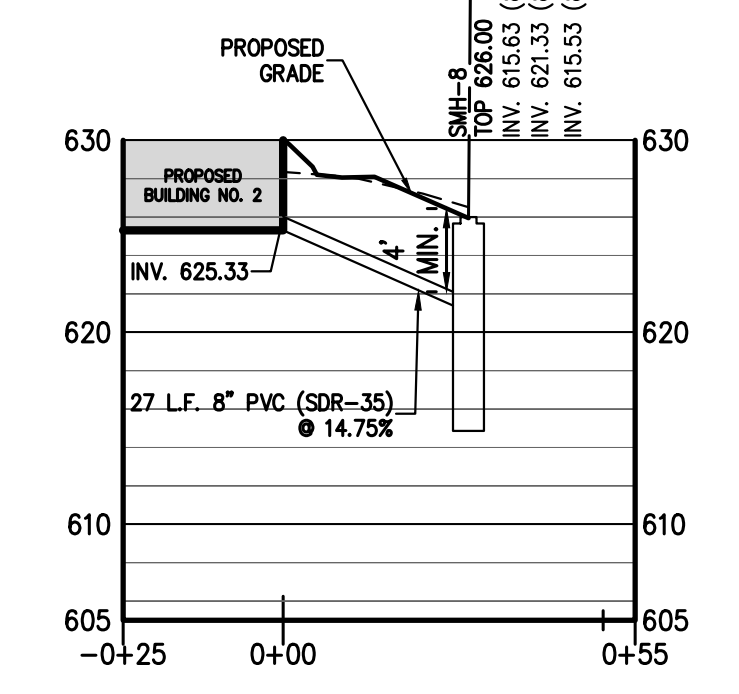
SMH-15 TO BUILDING NO. 7 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



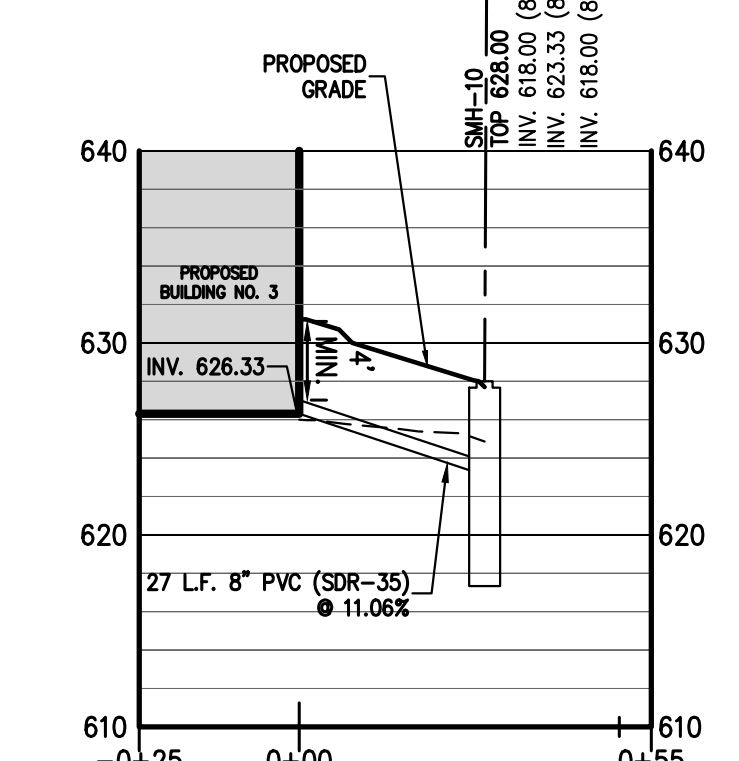
CLUBHOUSE TO SMH-5 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



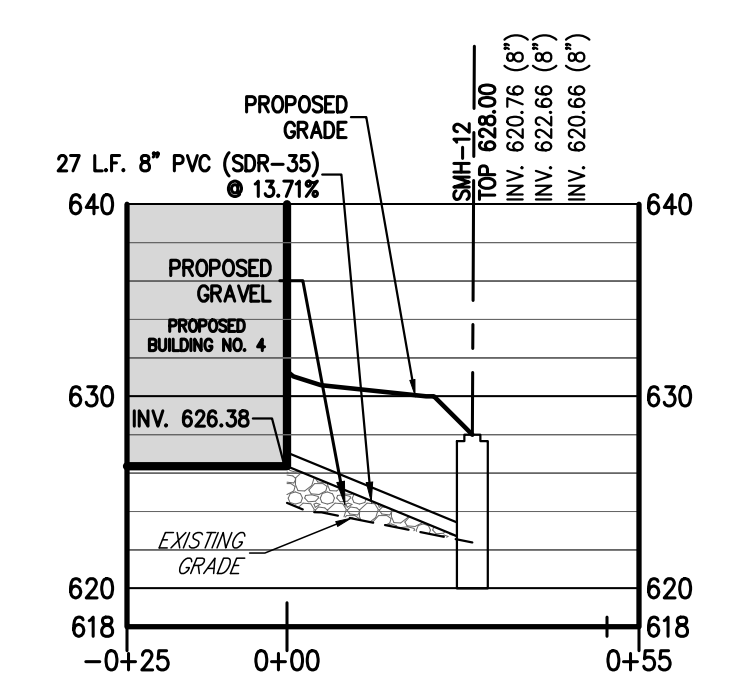
SMH-5 TO BUILDING NO. 1 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



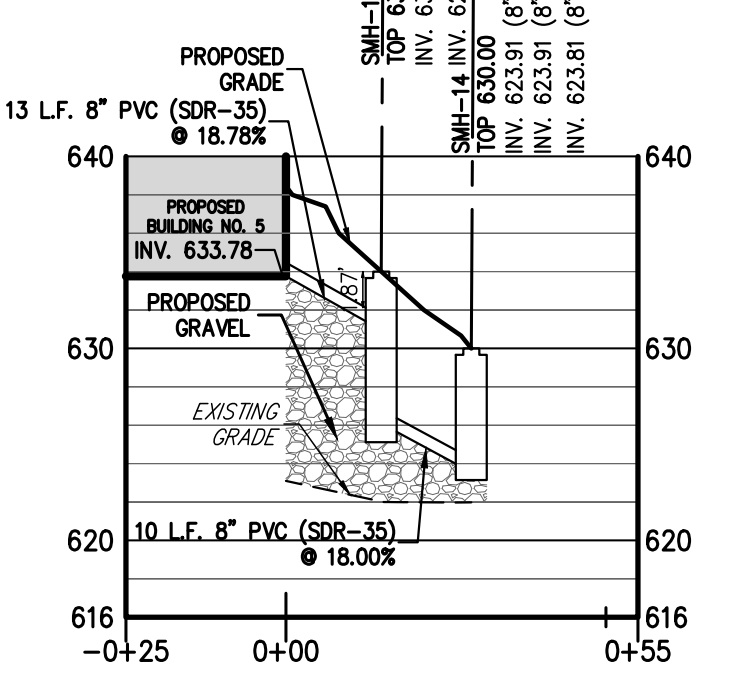
SMH-8 TO BUILDING NO. 2 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



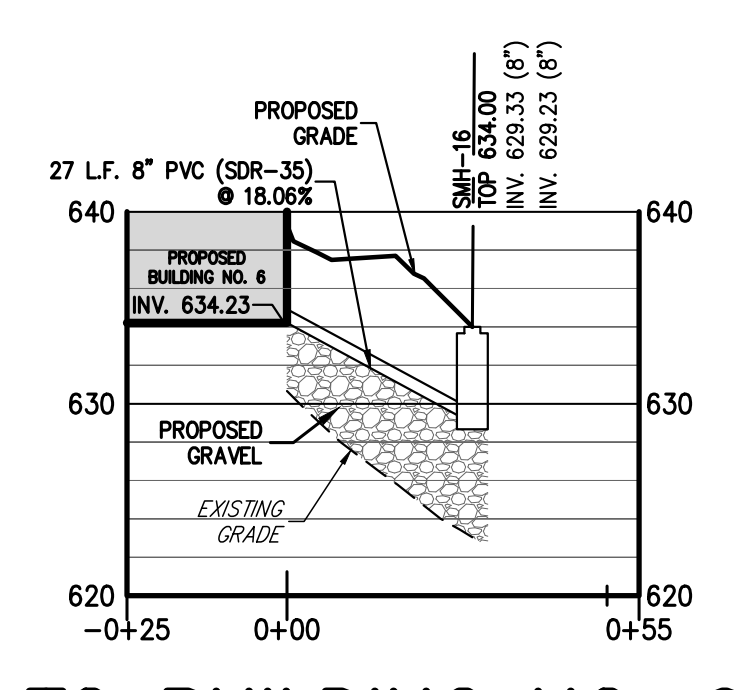
SMH-10 TO BUILDING NO. 3 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



SMH-12 TO BUILDING NO. 4 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



SMH-14 TO BUILDING NO. 5 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



SMH-16 TO BUILDING NO. 6 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'

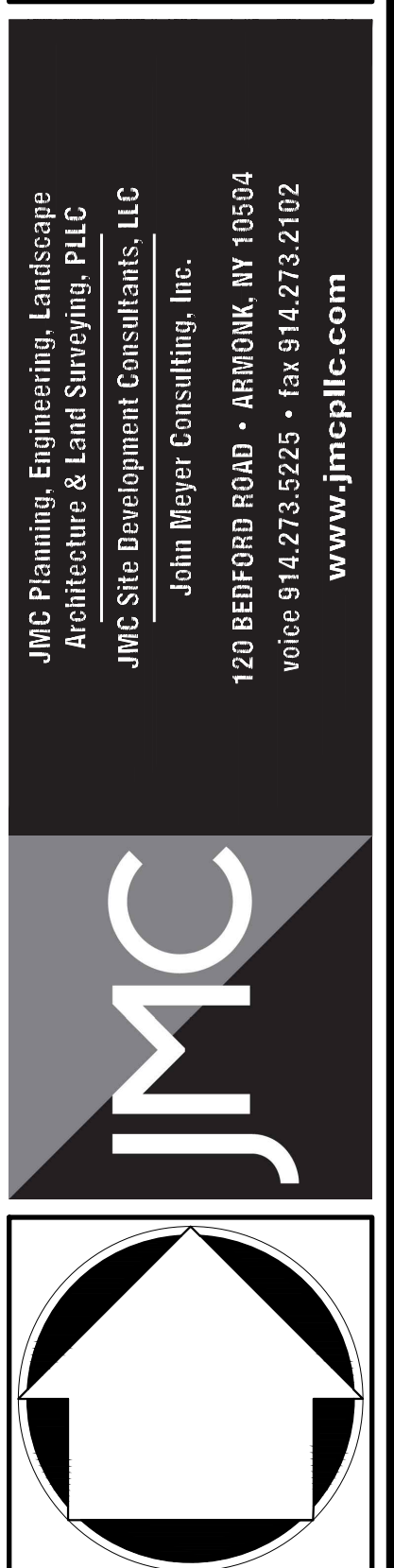
NOT FOR CONSTRUCTION

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
 CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER DATE: _____
 JOSEPH M. GEMELLE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER DATE: _____

| No. | Revisions | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 05/06/2021 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2021 |

| | |
|------------------|---|
| APPLICANT/OWNER: | SUMMIT CLUB PARTNERS, LLC 568 BEDFORD ROAD (NY-22) ARMONK, NY 10504 |
| ARCHITECT: | GRANOFF ARCHITECTS 330 RAILROAD AVENUE GREENWICH, CT 06850 |

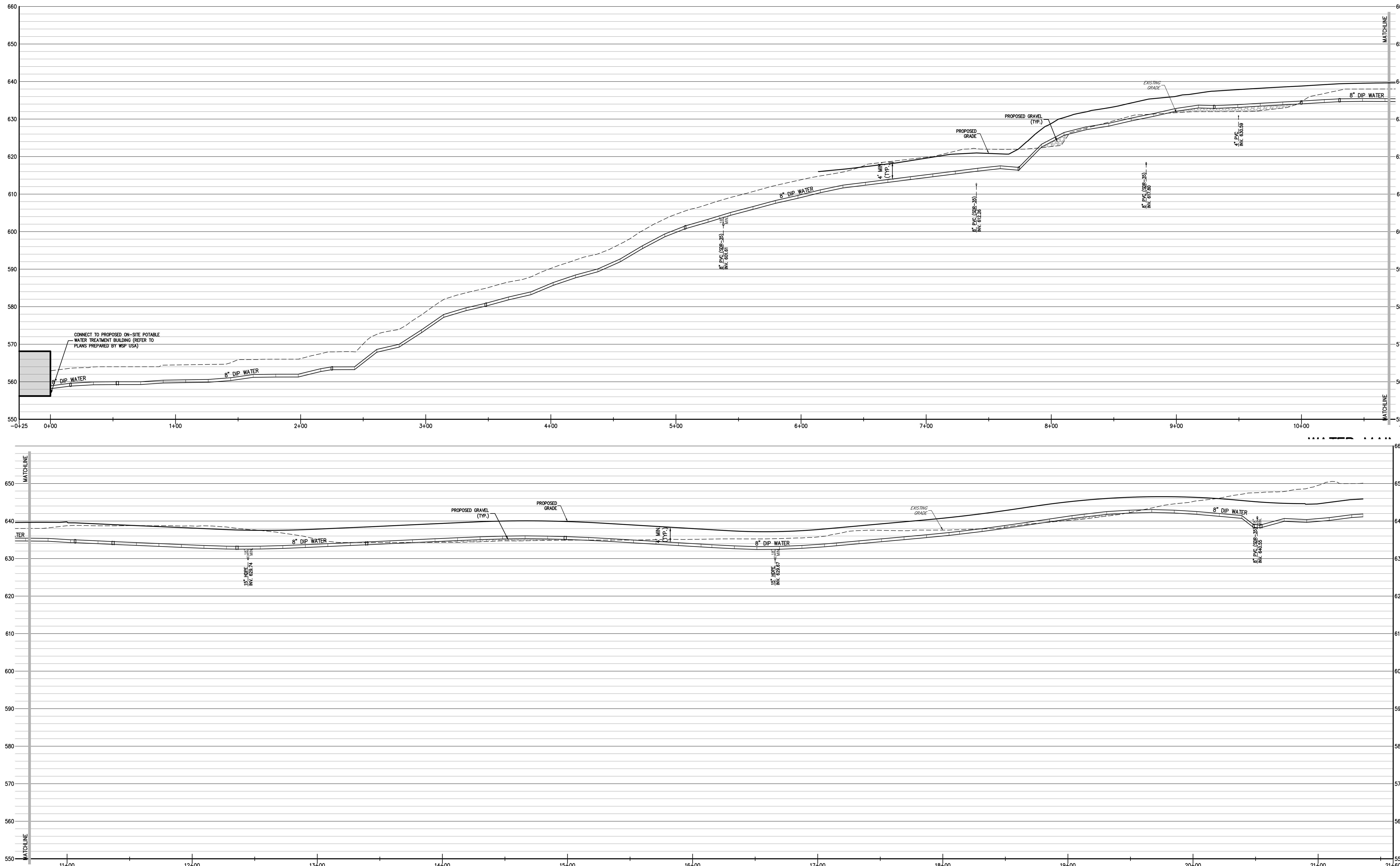
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEDFORD ROAD - ARMONK, NY 10534
 PHONE: 914-233-2222 - FAX: 914-233-2102
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SANITARY SEWER PROFILES
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
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 ARMONK, NY 10504

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NOT FOR CONSTRUCTION



WATER MAIN PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'

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APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

DATE: _____

CHRISTOPHER CARTHAY, CHAIRMAN,
 TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

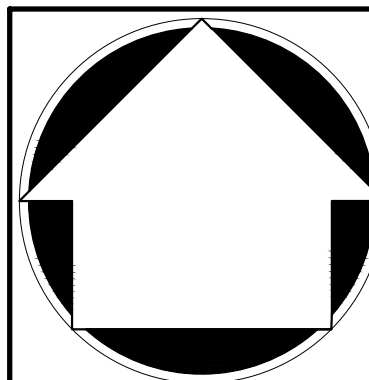
DATE: _____

JOSEPH M. GEMELLE, P.E.
 KELLARD SESSIONS CONSULTING, P.C.
 CONSULTING TOWN ENGINEER

Drawn: NC Approved: AG
 Scale: AS SHOWN
 Date: 11/23/2020
 Project No: 20101
 Drawing No: WATER PROFILE - ULL-201
 Drawing By: _____

C-303

WATER MAIN PROFILE
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

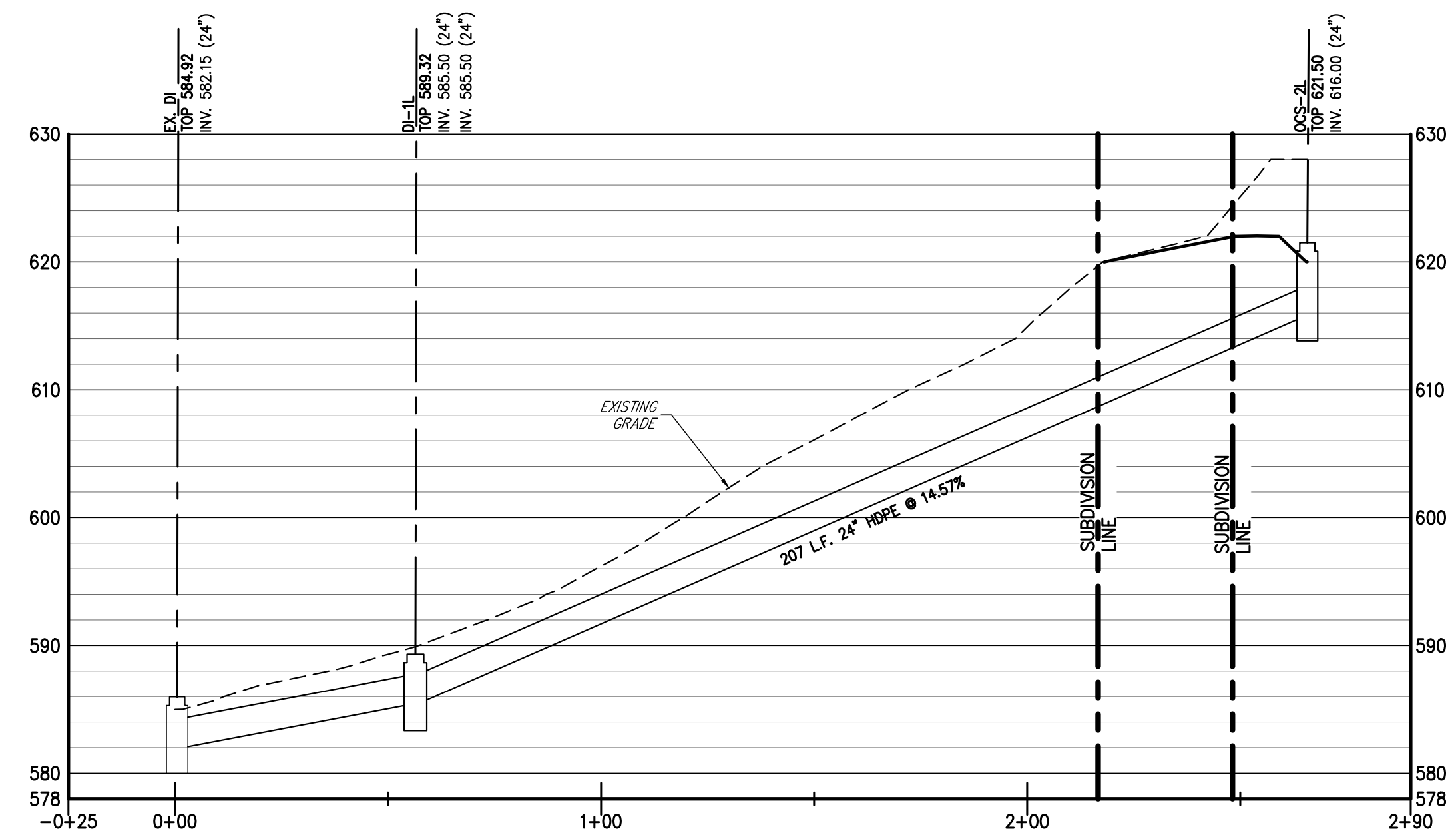


JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, LLC
 120 BEDFORD ROAD • ARMONK, NY 10504
 PHONE: 914.233.2429 • FAX: 914.233.2102
 www.jmcpic.com

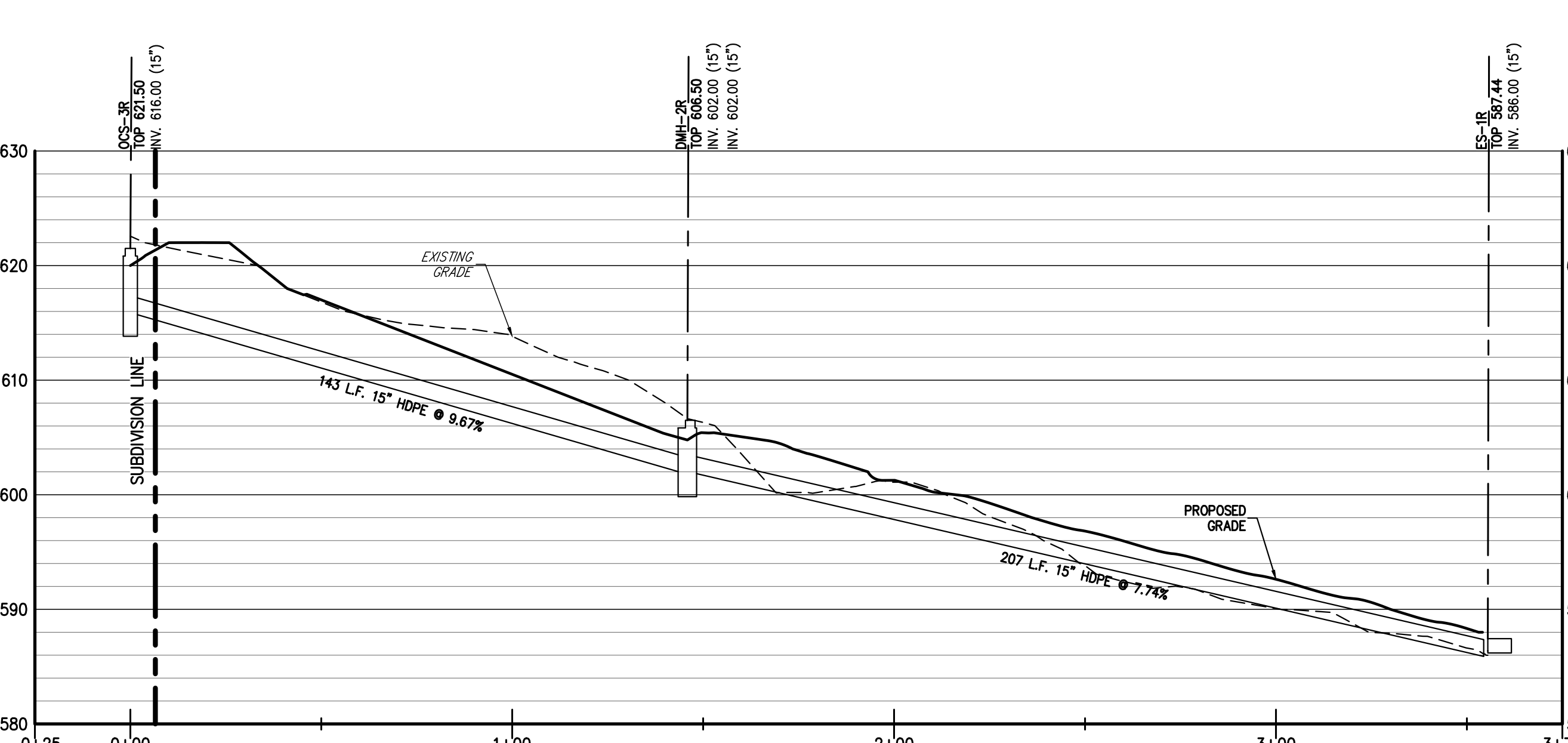
APPLICANT/OWNER:
SUMMIT CLUB PARTNERS, LLC
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT:
GRANOFF ARCHITECTS
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

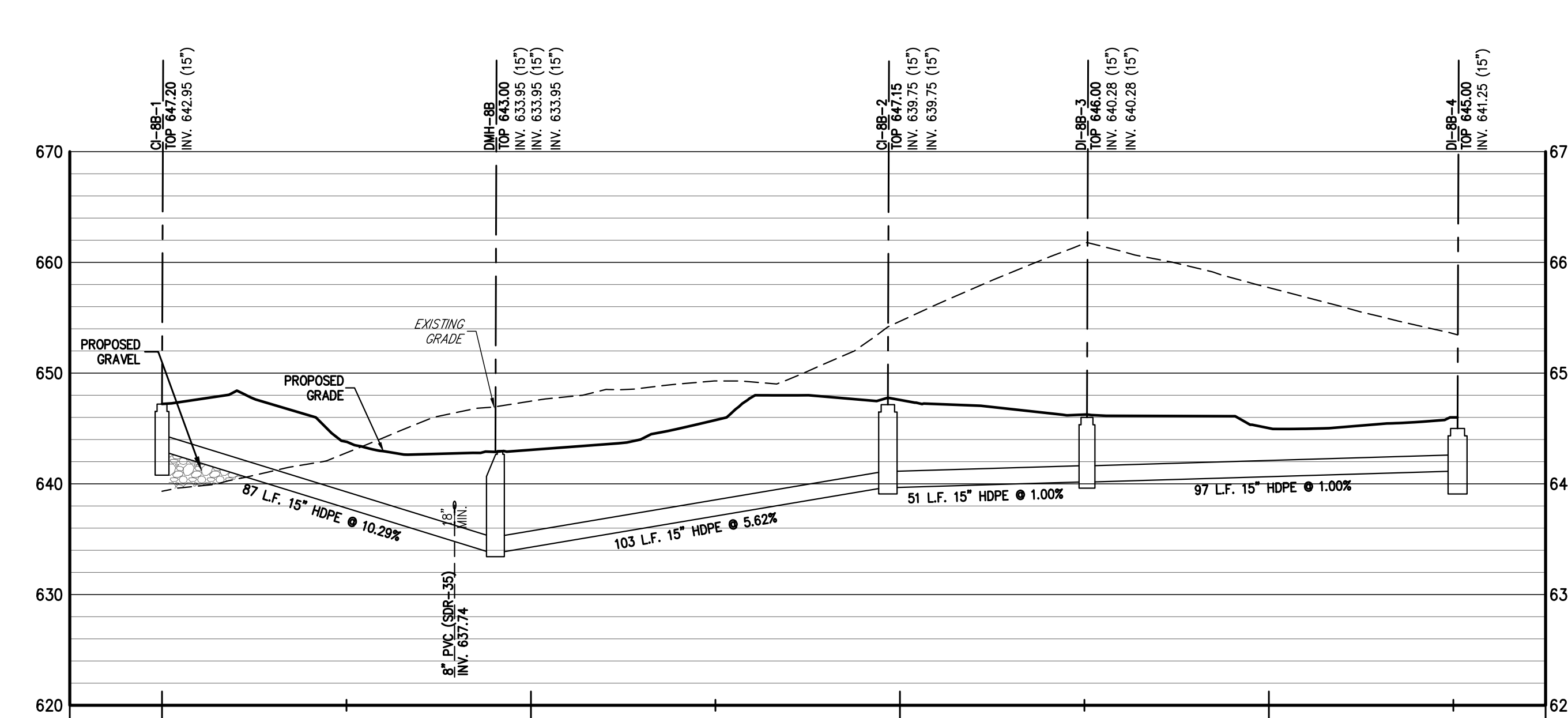
| No. | Revision | Date | By |
|-----|---------------------------|------------|----|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 | NC |
| 2. | RESPONSE TO TOWN COMMENTS | 05/08/2021 | NC |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | NC |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2021 | NC |



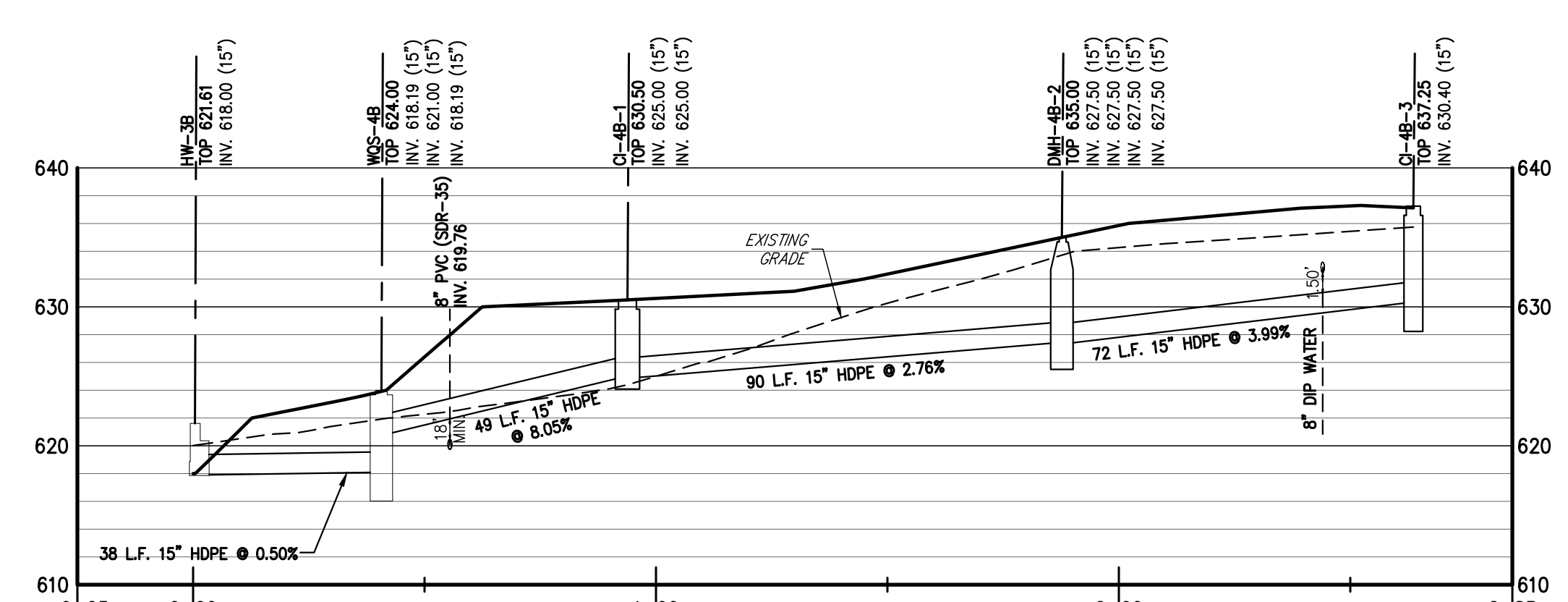
EX. DI TO OCS-2L PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



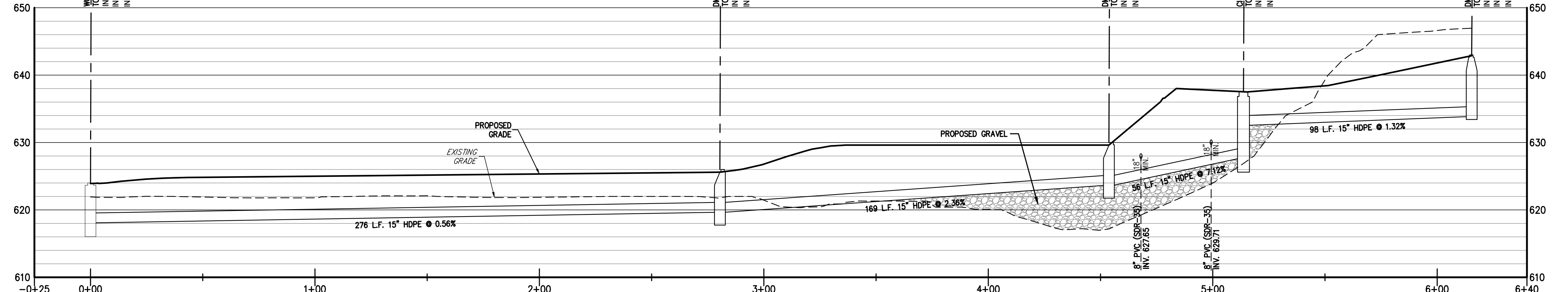
OCS-3R TO ES-1R PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



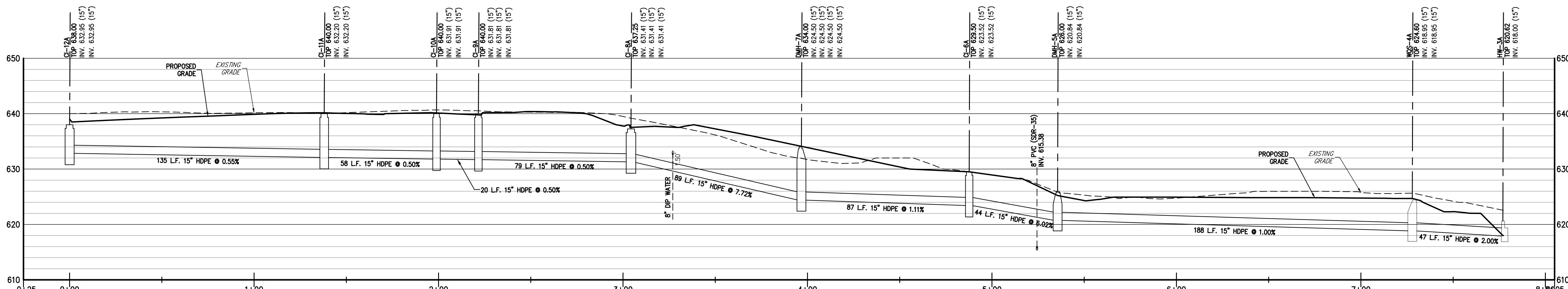
CI-8B-1 TO DI-8B-4 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



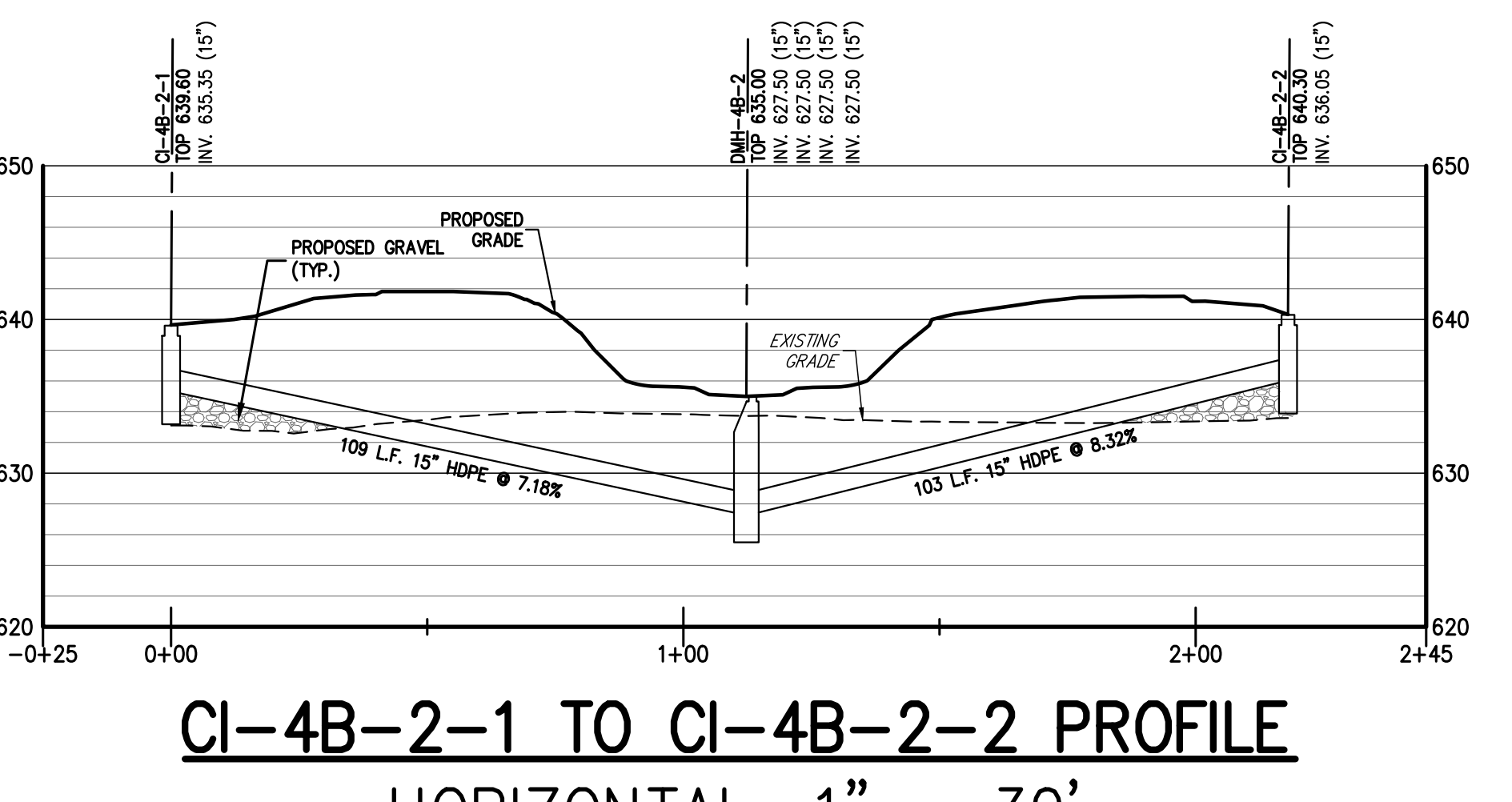
HW-3B TO CI-4B-3 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



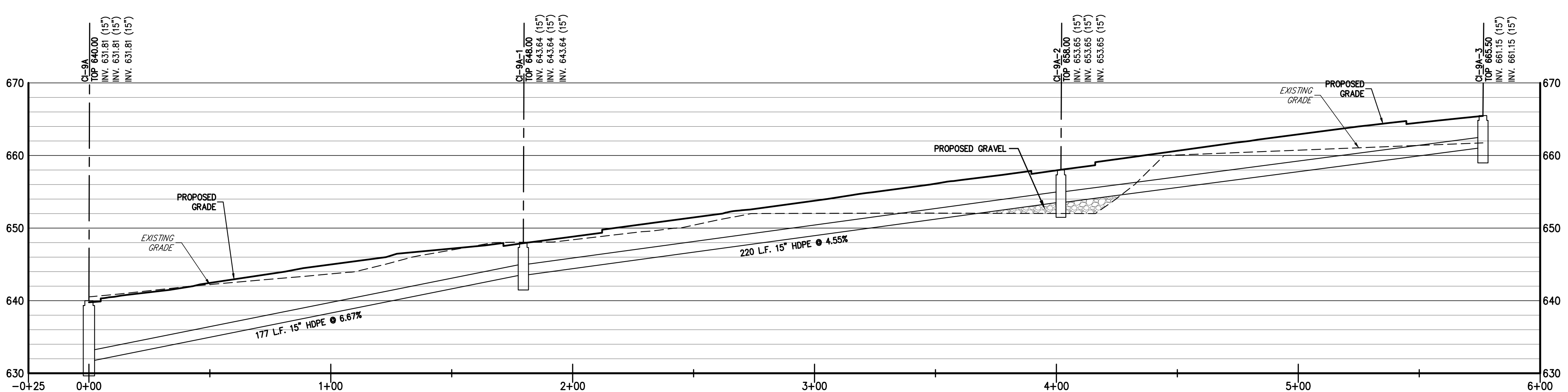
DMH-4B TO DMH-8B PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



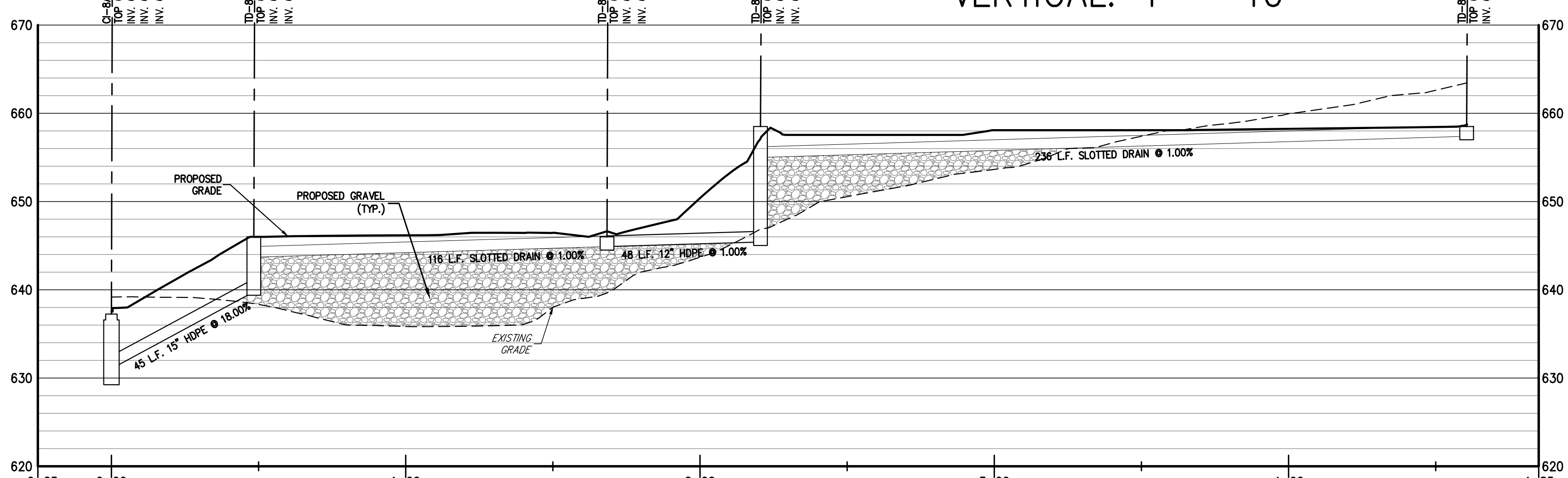
CI-12A TO HW-3A PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



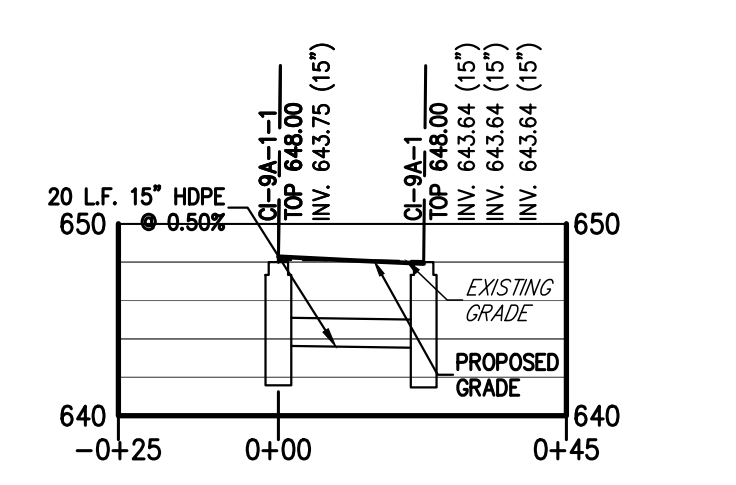
CI-4B-2-1 TO CI-4B-2-2 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



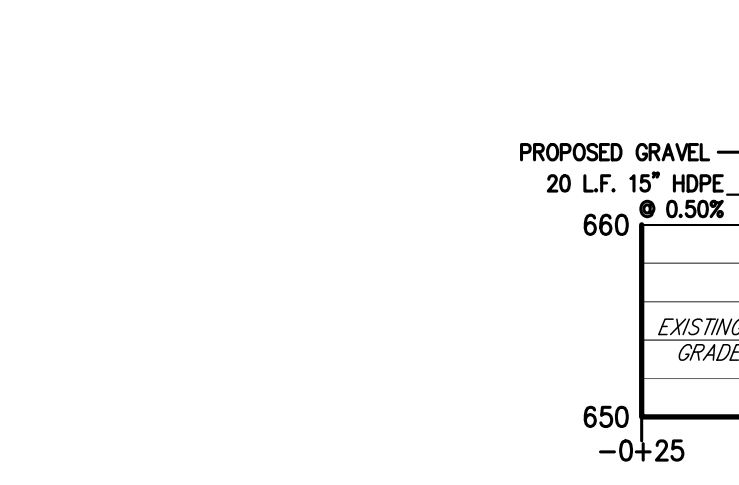
CI-9A TO CI-9A-3 PROFILE
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 VERTICAL: 1" = 10'



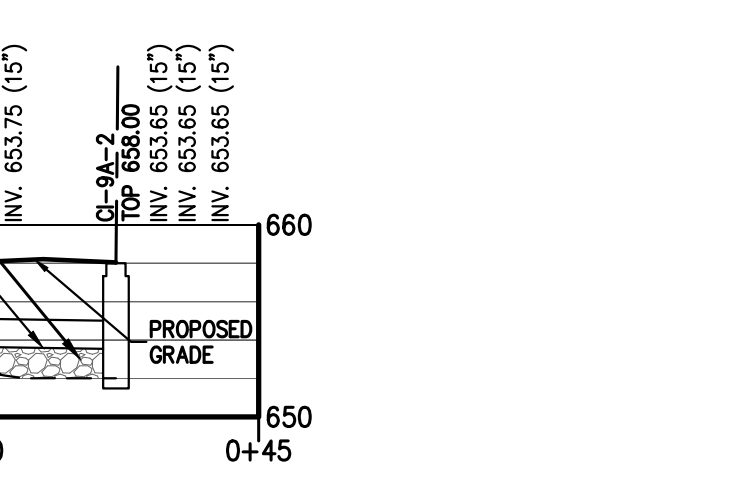
CI-8A TO TD-8A-3 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



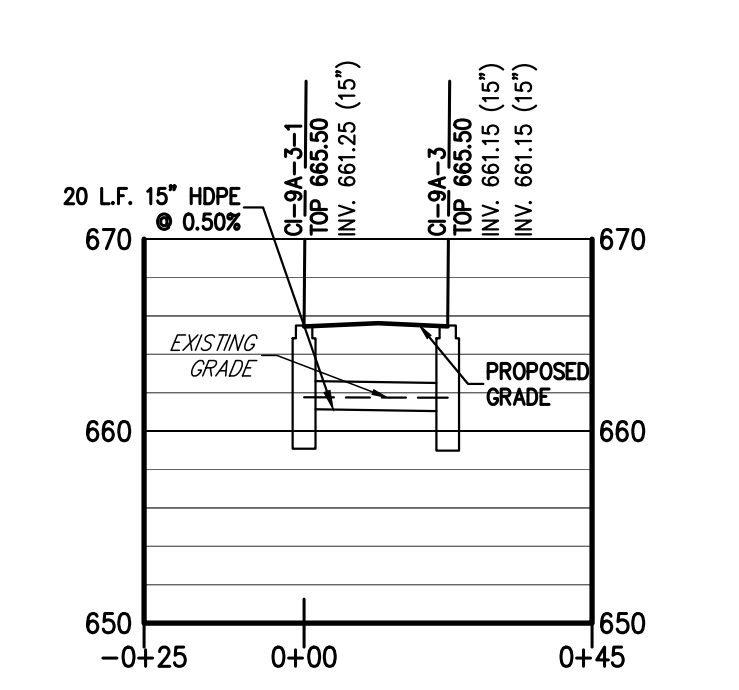
CI-9A-1-1 TO CI-9A-1 PROFILE
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 VERTICAL: 1" = 10'



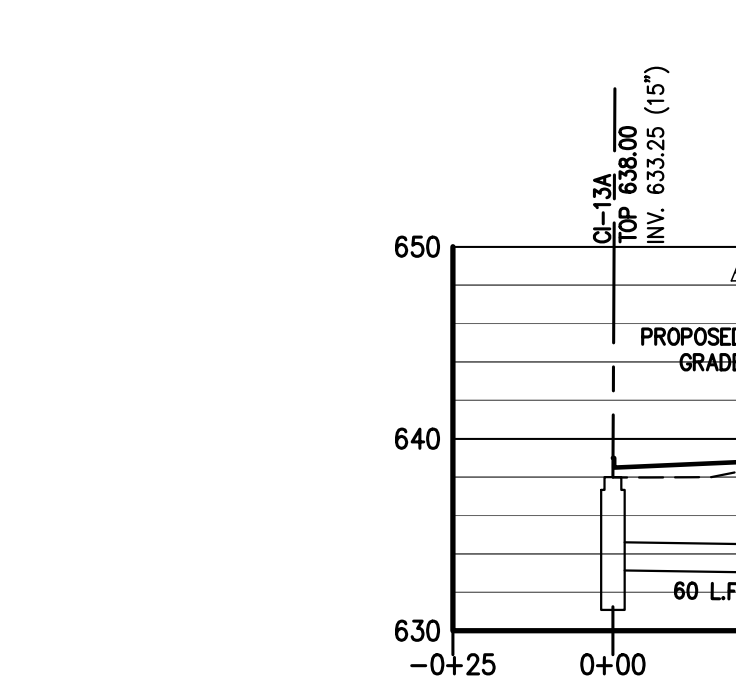
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 VERTICAL: 1" = 10'



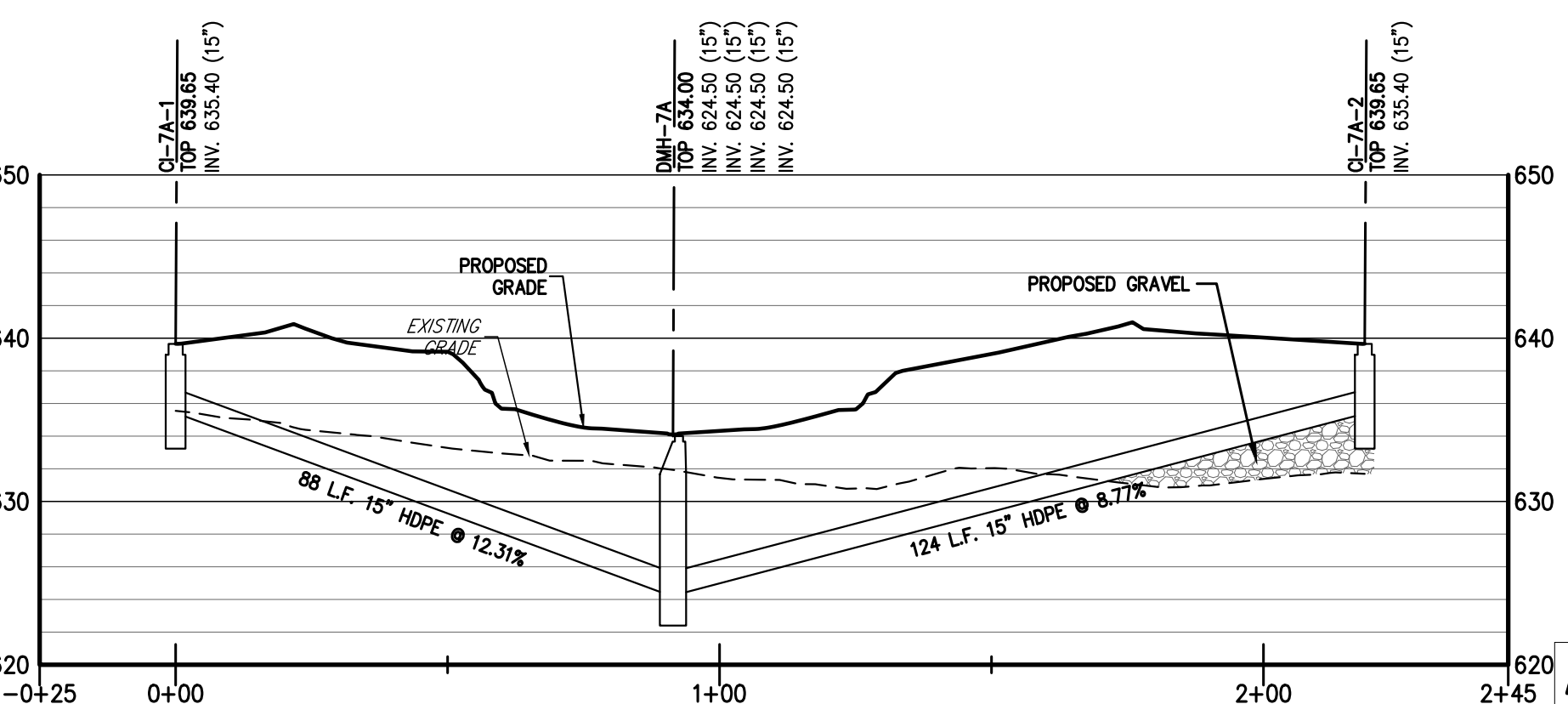
CI-9A-3-1 TO CI-9A-3 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



CI-13A TO CI-12A PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



CI-7A-1 TO CI-7A-2 PROFILE
 HORIZONTAL: 1" = 30'
 VERTICAL: 1" = 10'



APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
 CHRISTOPHER CARRHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
 JOSEPH M. GERMELI, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

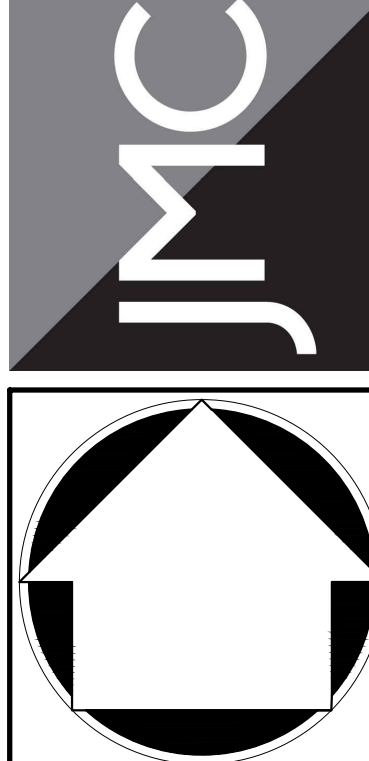
| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/08/2021 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 |

| By | Date |
|----|------------|
| NC | 07/17/2021 |
| NC | 03/08/2021 |
| NC | 06/14/2021 |
| NC | 07/07/2022 |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

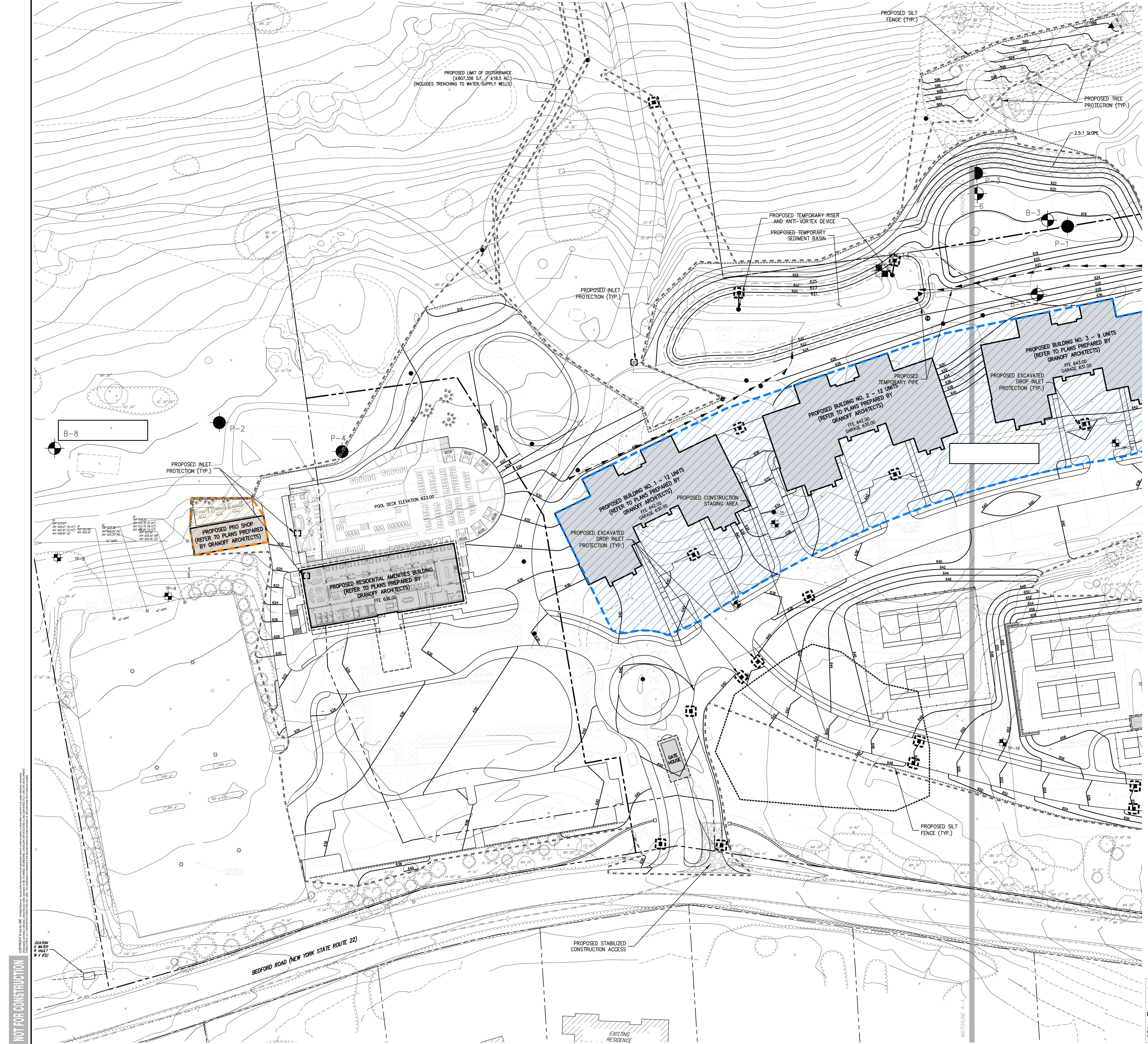
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
 JMC Site Development Consultants, LLC
 JMC Meyer Consulting, Inc.
 120 BEDFORD ROAD • ARMONK, NY 10504
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STORM SEWER PROFILES
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

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NOT FOR CONSTRUCTION



LEGEND

| | |
|----------|---|
| [Symbol] | PROPOSED INLET PROTECTION |
| [Symbol] | PROPOSED CONSTRUCTION FENCE |
| [Symbol] | PROPOSED SILT FENCE |
| [Symbol] | PROPOSED LIMIT OF DISTURBANCE |
| [Symbol] | PROPOSED STABILIZED CONSTRUCTION ENTRANCE |
| [Symbol] | PROPOSED STOOPPLE AREA |
| [Symbol] | PROPOSED TEMPORARY SEDIMENT BASIN |
| [Symbol] | PROPOSED TEMPORARY SHALE |
| [Symbol] | PROPOSED TREE PROTECTION |
| [Symbol] | PROPOSED TEMPORARY RISER & ANTI-VORTEX DEVICE |

- NOTES**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLES, "TOPOGRAPHIC MAP," PREPARED BY JMC/PLC, LAST REVISED 03/20/2011.
 - THIS PLAN IS FOR TEMPORARY EROSION AND SEDIMENT CONTROL INFORMATION ONLY.
 - BEFORE BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE PLANS AND SPECIFICATIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLAN.
 - THE CONTRACTOR SHALL INSPECT AND MAINTAIN ON-SITE EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS. ALL COLLECTED SEDIMENT WITHIN SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY AS REQUIRED TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE REDEPOSITED ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED/WARRANTED BY FIELD CONDITIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE, JMC, AND/OR ANY AUTHORITY HAVING JURISDICTION.
 - STOOPPLES OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED ON THIS PLAN OR AS APPROVED BY THE OWNER'S REPRESENTATIVE. STOOPPLED EXCAVATED MATERIAL SHALL HAVE TWO ROWS OF SILT FENCE LOCATED AROUND ITS PERIMETER. ALL STOOPPLED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO IMPED EROSION AND/OR VEHICULAR TRAFFIC CIRCULATION ROUTES.
 - DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MAINTAIN AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.
 - ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS THAT WILL NOT BE FURTHER DISTURBED WITHIN 14 CALENDAR DAYS (7 DAYS FOR CONSTRUCTION SITES THAT EITHER DIRECTLY DISCHARGE TO ONE OF THE 2000 RIVERS LISTED IN APPENDIX E OF THE GENERAL PERMIT OR ARE LOCATED WITHIN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GENERAL PERMIT) SHALL BE TEMPORARILY SEEDED WITHIN 24 HOURS OF DISTURBANCE. IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) "EROSION AND SEDIMENT CONTROL GUIDELINES" AND THE ANSI A300 BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPORTING, MAINTENANCE AND CARE, PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), LATEST EDITIONS, AS FOLLOWS:
 - SEED MIXTURE AND RATE OF APPLICATION
 - IN SPRING, SUMMER OR EARLY FALL, SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 POUNDS PER ACRE (APPROXIMATELY 0.7 POUNDS/1000 SQUARE FEET OR USE 1 POUND/1000 SQUARE FEET).
 - IN LATE FALL OR EARLY WINTER, SEED THE AREA WITH CERTIFIED "ARBORETOX" WHITE RYE (CERIAL RYE) AT 100 POUNDS PER ACRE (2.5 POUNDS/1000 SQUARE FEET).
 - APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDRATED METHODS.
 - MULCH ALL SEEDED AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (50 POUNDS PER 1000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTIGUOUS BLANKET.
 - ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.

| | |
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| DATE | 07/17/2021 |
| REVISION | 1. RESPONSE TO TOWN COMMENTS |
| DATE | 03/09/2021 |
| REVISION | 2. RESPONSE TO TOWN COMMENTS |
| DATE | 06/14/2021 |
| REVISION | 3. RESPONSE TO TOWN COMMENTS |
| DATE | 07/07/2021 |
| REVISION | 4. RESPONSE TO TOWN COMMENTS |

PROJECT OWNER: SUMMIT CLUB PARTNERS, LLC
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504
 ARCHITECT: GRANOFF ARCHITECTS
 330 GREENWOOD AVENUE
 GREENWICH, CT 06850

NOT FOR CONSTRUCTION

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

CHRISTOPHER CARRHY, CHAIRMAN,
TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. CERNIJE, P.E.
KELLARD SESSONS CONSULTING, P.C.
CONSULTING TOWN ENGINEER

| | | | |
|-------------|---------------------------|----------|----|
| Drawn | NC | Approved | AG |
| Scale | 1" = 30' | | |
| Date | 11/23/2020 | | |
| Project No. | 20101 | | |
| Sheet | 2 | of | 2 |
| Client | Summit Club Partners, LLC | | |

C-400



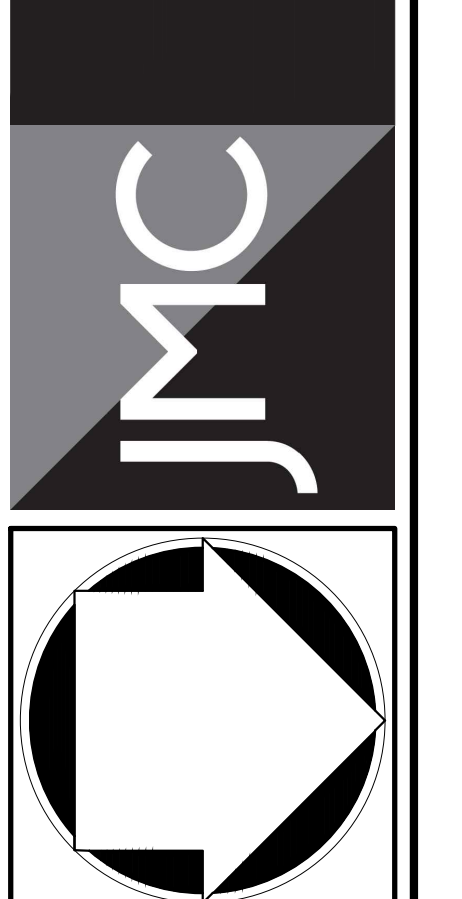
LEGEND

| | |
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| | PROPOSED INLET PROTECTION |
| | PROPOSED CONSTRUCTION FENCE |
| | PROPOSED SILT FENCE |
| | PROPOSED LIMIT OF DISTURBANCE |
| | PROPOSED STABILIZED CONSTRUCTION ENTRANCE |
| | PROPOSED STOOPPLE AREA |
| | PROPOSED TEMPORARY SEDIMENT BASIN |
| | PROPOSED TEMPORARY SHALE |
| | PROPOSED TREE PROTECTION |
| | PROPOSED TEMPORARY RISER & ANTI-VORTEX DEVICE |

- NOTES**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLES, "TOPOGRAPHIC MAP," PREPARED BY JMC/PLC, LAST REVISED 03/20/2011.
 - THIS PLAN IS FOR TEMPORARY EROSION AND SEDIMENT CONTROL INFORMATION ONLY.
 - BEFORE BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE PLANS AND SPECIFICATIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLAN.
 - THE CONTRACTOR SHALL INSPECT AND MAINTAIN ON-SITE EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS. ALL COLLECTED SEDIMENT WITHIN SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY AS REQUIRED TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE REUSED ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL INSPECT DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS, AFTER EACH RAINFALL, AND AS MAY BE REQUIRED OR DIRECTED BY ALL APPLICABLE APPROVALS AND PERMITS. THE CONTRACTOR SHALL IMMEDIATELY PROVIDE A WRITTEN REPORT ON FINDINGS OF SEDIMENT IN DOWNSTREAM AREAS TO ALL AUTHORITIES HAVING JURISDICTION AND MAKE REPAIRS AS REQUIRED OR DIRECTED.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED/WARRANTED BY FIELD CONDITIONS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE, JMC, AND/OR ANY AUTHORITY HAVING JURISDICTION.
 - STOOPPLING OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED ON THIS PLAN OR AS APPROVED BY THE OWNER'S REPRESENTATIVE. STOOPPLED EXCAVATED MATERIAL SHALL HAVE TWO ROWS OF 24" FENCE LOCATED AROUND THE PERIMETER. ALL STOOPPLED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO IMPED EROSION AND/OR VEHICULAR TRAFFIC CIRCULATION ROUTES.
 - MUST BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MAINTAIN AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.
 - ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS, THAT WILL NOT BE FURTHER DISTURBED WITHIN 14 CALENDAR DAYS (7 DAYS FOR CONSTRUCTION SITES THAT DIRECTLY DISCHARGE TO ONE OF THE 2000+ STREAMS LISTED IN APPENDIX E OF THE GENERAL PERMIT OR ARE LOCATED WITHIN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GENERAL PERMIT), SHALL BE TEMPORARILY SEEDED WITHIN 24 HOURS OF DISTURBANCE. IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) "EROSION AND SEDIMENT CONTROL GUIDELINES" AND THE ANSI ADOPTED BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPLANTING, MAINTENANCE AND CARE," PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISCA), LATEST EDITIONS, AS FOLLOWS:
 - SEED MIXTURE AND RATE OF APPLICATION
 - IN SPRING, SUMMER OR EARLY FALL, SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 20 POUNDS PER ACRE (APPROXIMATELY 0.7 POUNDS/1000 SQUARE FEET OR USE 1 POUND/1000 SQUARE FEET).
 - IN LATE FALL OR EARLY WINTER, SEED THE AREA WITH CERTIFIED "ARBORETOUR" WHITE RYE (CERIAL RYE) AT 100 POUNDS PER ACRE (2.5 POUNDS/1000 SQUARE FEET).
 - APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDROUS METHODS.
 - MULCH ALL SEEDING AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (50 POUNDS PER 1000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
 - ALL SEEDING AREAS SHALL BE FERTILIZED, RESEEDED, AND MOWED AS NECESSARY TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.

| APPLICANT/OWNER: | SUMMIT CLUB PARTNERS, LLC 568 BEDFORD ROAD (NY-22) ARMONK, NY 10504 | | | | | | | | | | | | | | | |
|------------------|--|------------|-------------|------|----|---------------------------|------------|----|---------------------------|------------|----|---------------------------|------------|----|---------------------------|------------|
| ARCHITECT: | GRANOFF ARCHITECTS 330 RAILROAD AVENUE GREENWICH, CT 06830 | | | | | | | | | | | | | | | |
| DATE: | 07/17/2021 | | | | | | | | | | | | | | | |
| REVISION: | <table border="1"> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>Date</th> </tr> <tr> <td>1.</td> <td>RESPONSE TO TOWN COMMENTS</td> <td>07/17/2021</td> </tr> <tr> <td>2.</td> <td>RESPONSE TO TOWN COMMENTS</td> <td>03/09/2021</td> </tr> <tr> <td>3.</td> <td>RESPONSE TO TOWN COMMENTS</td> <td>06/14/2021</td> </tr> <tr> <td>4.</td> <td>RESPONSE TO TOWN COMMENTS</td> <td>07/07/2021</td> </tr> </table> | No. | DESCRIPTION | Date | 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 | 2. | RESPONSE TO TOWN COMMENTS | 03/09/2021 | 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | 4. | RESPONSE TO TOWN COMMENTS | 07/07/2021 |
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| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 | | | | | | | | | | | | | | |
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| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 | | | | | | | | | | | | | | |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2021 | | | | | | | | | | | | | | |

JMC Planning, Engineering, Landscaping, Architecture & Land Surveying, PLLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
PHONE: 914.233.2222 • FAX: 914.233.2192
www.jmcpbc.com



SITE EROSION & SEDIMENT CONTROL PLAN (NORTH)
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
 CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
 ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
 JOSEPH M. CERNILE, P.E. KELLARD SESSONS CONSULTING, P.C. CONSULTING TOWN ENGINEER DATE: _____

| | | | |
|--------------|-----------|-----------|------------|
| Drawn: | NC | Approved: | AG |
| Scale: | 1" = 30' | Date: | 11/23/2020 |
| Project No.: | 20101 | Sheet: | 20101 |
| Job #: | 185 NORTH | Scale: | 1/8" = 1' |
| Client: | | | |

C-401

NOT FOR CONSTRUCTION

DISTURBANCE AUTHORIZATION, PHASING OF THE PROJECT AND SEQUENCING OF CONSTRUCTION

THE FOLLOWING SECTION DESCRIBES THE CONSTRUCTION PHASING PROPOSED FOR THIS PROJECT AND THE SEQUENCING OF THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS AND THE PROPOSED CONSTRUCTION.

THE PLAN DIVIDES THE SITE INTO THREE (3) AREAS TO BE IMPACTED BY DEVELOPMENT. THE AREA OF PROPOSED GROUND DISTURBANCE WITHIN EACH OF THE THREE (3) AREAS TO BE DISTURBED BY THE RESIDENTIAL, RESIDENTIAL AMENITIES COMPLEX, AND FUTURE PERMANENT CLUBHOUSE IMPROVEMENTS WILL BE MORE THAN FIVE (5) ACRES. THEREFORE, AND IN ACCORDANCE WITH NYSDEC SPDES GENERAL PERMIT NO. GP-0-20-001 EFFECTIVE JANUARY 29, 2020 THE OPERATOR SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE SEDIMENT & EROSION CONTROL PLANS, HAVE BEEN ADEQUATELY INSTALLED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE OPERATOR SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT TWO (2) SITE INSPECTIONS AT LEAST EVERY SEVEN (7) CALENDAR DAYS.

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY, THE OWNER OR OPERATOR SHALL IDENTIFY THE CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT WILL BE RESPONSIBLE FOR INSTALLING, CONSTRUCTING, REPAIRING, REPLACING, INSPECTING AND MAINTAINING THE EROSION AND SEDIMENT CONTROL PRACTICES INCLUDED IN THE SWPPP, AND THE CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT WILL BE RESPONSIBLE FOR CONSTRUCTING THE POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES INCLUDED IN THE SWPPP. THE OWNER OR OPERATOR SHALL HAVE EACH OF THE CONTRACTORS AND SUBCONTRACTORS IDENTIFY AT LEAST ONE PERSON FROM THEIR COMPANY THAT WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP. THIS PERSON SHALL BE KNOWN AS THE TRAINED CONTRACTOR. THE OWNER OR OPERATOR SHALL ENSURE THAT AT LEAST ONE TRAINED CONTRACTOR IS ON SITE ON A DAILY BASIS WHEN SOIL DISTURBANCE ACTIVITIES ARE BEING PERFORMED.

THE OWNER OR OPERATOR SHALL HAVE EACH OF THE CONTRACTORS AND SUBCONTRACTORS IDENTIFIED ABOVE SIGN A COPY OF THE CERTIFICATION STATEMENT PROVIDED BEFORE THEY COMMENCE ANY CONSTRUCTION ACTIVITY.

CONSTRUCTION ACCESS AND VEHICLE TRAVEL ON SITE

THE SITE ACCESS FOR CONSTRUCTION VEHICLE TRAFFIC WILL BE VIA THE EXISTING DRIVEWAY ALONG BEDFORD ROAD (NY 22). THIS ENTRANCE SHALL BE POSTED WITH 'CONSTRUCTION ACCESS' SIGNS VISIBLE IN BOTH DIRECTIONS OF ONCOMING TRAFFIC. WHERE PRACTICAL, THE EXISTING PAVED DRIVEWAY AND GOLF CART PATHS WHICH TRAVERSE THE SITE WILL BE USED FOR THE CONSTRUCTION VEHICLES.

A PRIMARY CONSTRUCTION STAGING AREA AND EQUIPMENT STORAGE AREA WILL BE ESTABLISHED AND LOCATED IN THE EXISTING LAWN AREA NEXT TO THE EXISTING ENTRANCE DRIVE. CONSTRUCTION VEHICLES SHALL NOT DISTURB ANY AREAS BEYOND THE CONSTRUCTION PHASE BEING WORKED AT THE TIME EXCEPT UNDER THE STRICT SUPERVISION OF THE OWNER'S FIELD REPRESENTATIVE AND ENCLOSED WITH 8' FOOT TALL CHAIN LINK SECURITY FENCING.

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION OPERATION DESCRIBED BELOW AND AS NOTED ON THE PLANS.

CONSTRUCTION PHASE 1 (~16.9 AC.)

- RESIDENTIAL BUILDINGS #4,5,6, AMENITIES COMPLEX, ROADWAYS, SIDEWALKS, TENNIS COURTS, ENTRANCE DRIVE, PARKING LOTS & PUTTING GREEN, WATER SYSTEM, WASTEWATER TREATMENT PLANT AND MAINTENANCE BUILDING/PARKING.
1. STAKE OUT ALL LIMITS OF DISTURBANCE. (AREAS SHALL BE DELINEATED WITH ORANGE CONSTRUCTION FENCE)
 2. TAG ALL EXISTING TREES TO BE REMOVED (TREES SHALL BE DELINEATED WITH COLORED CONSTRUCTION TAPE)
 3. CUT EXISTING TREES TO BE REMOVED.
 4. INSTALL CONSTRUCTION ACCESS, SILT FENCE (DOWNHILL OF ALL DISTURBANCE AREAS), INLET PROTECTION AND OTHER NECESSARY EROSION AND SEDIMENT CONTROLS, INCLUDING THE INSTALLATION OF THE TEMPORARY SEDIMENT BASIN AND TEMPORARY SWALES.
 5. COORDINATE INSPECTION OF INITIAL EROSION CONTROLS AND TREE REMOVAL BY TOWN CONSULTING ENGINEER AND J.M.C.
 6. DEMOLITION OF EXISTING BUILDINGS AND SITE FEATURES AS REQUIRED.
 7. STRIP AND STOCKPILE TOPSOIL. REMOVE STUMPS FROM CUT TREES.
 8. BEGIN BUILDING AND ROADWAY/PARKING LOT CONSTRUCTION, ROUGH GRADING.
 9. INSTALL STORM DRAIN SYSTEM COMPLETE (IMMEDIATELY INSTALL INLET PROTECTION ON ALL INLETS).
 10. INSTALL WATER SYSTEM AND SEWAGE TREATMENT PLANT IMPROVEMENTS.
 11. INSTALL PUBLIC UTILITIES (WATER, SANITARY SEWER, GAS, ELECTRIC, AND TELEPHONE) AS REQUIRED.
 12. INSTALL CONCRETE AND ASPHALT CONCRETE PAVEMENT COMPLETE.
 13. FINISH GRADING, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION AND/OR LANDSCAPING.
 14. CLEAN PAVEMENTS AND STORM DRAIN SYSTEM OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE REMOVAL OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.
 15. COMPLETE SITE AND BUILDING CONSTRUCTION.
 16. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS APPLICABLE ONCE VEGETATION IS ESTABLISHED (80% GRASS SPROUT OVER ENTIRE AREA).

CONSTRUCTION PHASE 2 (~2.3 AC.)

- RESIDENTIAL BUILDINGS #1,2,3
1. STAKE OUT ALL LIMITS OF DISTURBANCE. (AREAS SHALL BE DELINEATED WITH ORANGE CONSTRUCTION FENCE)
 2. TAG ALL EXISTING TREES TO BE REMOVED (TREES SHALL BE DELINEATED WITH COLORED CONSTRUCTION TAPE)
 3. CUT EXISTING TREES TO BE REMOVED.
 4. INSTALL CONSTRUCTION ACCESS, SILT FENCE (DOWNHILL OF ALL DISTURBANCE AREAS), INLET PROTECTION AND OTHER NECESSARY EROSION AND SEDIMENT CONTROLS, INCLUDING THE TEMPORARY SWALE BEHIND THE BUILDINGS.
 5. COORDINATE INSPECTION OF INITIAL EROSION CONTROLS AND TREE REMOVAL BY TOWN CONSULTING ENGINEER AND J.M.C.
 6. DEMOLITION OF EXISTING BUILDINGS AND SITE FEATURES AS REQUIRED.
 7. STRIP AND STOCKPILE TOPSOIL. REMOVE STUMPS FROM CUT TREES.
 8. BEGIN BUILDING AND ROADWAY/PARKING LOT CONSTRUCTION, ROUGH GRADING.
 9. INSTALL STORM DRAIN SYSTEM COMPLETE (IMMEDIATELY INSTALL INLET PROTECTION ON ALL INLETS).
 10. INSTALL PUBLIC UTILITIES (WATER, SANITARY SEWER, GAS, ELECTRIC, AND TELEPHONE) AS REQUIRED.
 11. INSTALL CONCRETE AND ASPHALT CONCRETE PAVEMENT COMPLETE.
 12. FINISH GRADING, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION AND/OR LANDSCAPING.
 13. CLEAN PAVEMENTS AND STORM DRAIN SYSTEM OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE REMOVAL OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.
 14. COMPLETE SITE AND BUILDING CONSTRUCTION.
 15. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS APPLICABLE ONCE VEGETATION IS ESTABLISHED (80% GRASS SPROUT OVER ENTIRE AREA).

CONSTRUCTION PHASE 3 (~3.0 AC.)

- GUEST COTTAGES AND PRO-SHOP
1. STAKE OUT ALL LIMITS OF DISTURBANCE. (AREAS SHALL BE DELINEATED WITH ORANGE CONSTRUCTION FENCE)
 2. TAG ALL EXISTING TREES TO BE REMOVED (TREES SHALL BE DELINEATED WITH COLORED CONSTRUCTION TAPE)
 3. CUT EXISTING TREES TO BE REMOVED.
 4. INSTALL CONSTRUCTION ACCESS, SILT FENCE (DOWNHILL OF ALL DISTURBANCE AREAS), INLET PROTECTION AND OTHER NECESSARY EROSION AND SEDIMENT CONTROLS.
 5. COORDINATE INSPECTION OF INITIAL EROSION CONTROLS AND TREE REMOVAL BY TOWN CONSULTING ENGINEER AND J.M.C.
 6. DEMOLITION OF EXISTING BUILDINGS AND SITE FEATURES AS REQUIRED.
 7. STRIP AND STOCKPILE TOPSOIL. REMOVE STUMPS FROM CUT TREES.
 8. BEGIN BUILDING AND ROADWAY/PARKING LOT CONSTRUCTION, ROUGH GRADING.
 9. INSTALL STORM DRAIN SYSTEM COMPLETE (IMMEDIATELY INSTALL INLET PROTECTION ON ALL INLETS).
 10. INSTALL PUBLIC UTILITIES (WATER, SANITARY SEWER, GAS, ELECTRIC, AND TELEPHONE) AS REQUIRED.
 11. INSTALL CONCRETE AND ASPHALT CONCRETE PAVEMENT COMPLETE.
 12. FINISH GRADING, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION AND/OR LANDSCAPING.
 13. CLEAN PAVEMENTS AND STORM DRAIN SYSTEM OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE REMOVAL OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.
 14. COMPLETE SITE AND BUILDING CONSTRUCTION.
 15. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS APPLICABLE ONCE VEGETATION IS ESTABLISHED (80% GRASS SPROUT OVER ENTIRE AREA).

GENERAL NOTES

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH ALL THE PLANS, PRIOR TO BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION.
2. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING ANY CLEARING AND GRUBBING OR EARTHWORK.
3. EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
4. GRASS SEED MIX FOR SEDIMENT AND EROSION CONTROL MAY BE APPLIED BY EITHER MECHANICAL OR HYDROSEEDING METHODS. HYDROSEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
5. SEEDED AREAS HAVING A GRADED SLOPE OF 25% OR LESS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 LBS. PER 1,000 S.F.) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS BY THE CONTRACTOR. ALL COLLECTED SEDIMENT WITHIN SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE RESPREAD ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
7. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE CONTRACTOR.
8. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT SETTLEMENT.
9. EXCAVATIONS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTIES, NOR DIVERT WATER ONTO THE PROPERTY OF OTHERS.
10. THE CONTRACTOR SHALL INSPECT DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A TWICE A WEEK BASIS AND AFTER RAINSTORMS.
11. AS WARRANTED BY FIELD CONDITIONS, SPECIAL ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED.
12. STOCKPILING OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED. STOCKPILED EXCAVATED MATERIAL SHALL HAVE SILT FENCE LOCATED AROUND PERIMETER. ALL STOCKPILED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO IMPEDE ON EXISTING TRAFFIC CIRCULATION ROUTES.
13. THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL INFORMATION ONLY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE OWNER'S FIELD REPRESENTATIVE AND/OR THE TOWN OF NORTH CASTLE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH NYSDEC RULES AND REGULATIONS AS SET FORTH BY SPDES GENERAL PERMIT GP-0-20-001 FOR DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES EFFECTIVE 01/29/2020.
16. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHALL BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. THE SOIL STABILIZATION MEASURES SELECTED SHALL BE IN CONFORMANCE WITH THE TECHNICAL STANDARD, NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED AUGUST 2005.
17. THE OWNER OR OPERATOR SHALL INSTALL ANY ADDITIONAL SITE SPECIFIC PRACTICES NEEDED TO PROTECT WATER QUALITY.
18. CONTRACTOR SHALL UTILIZE EXISTING PAVED AREAS WHERE PRACTICAL AND AS MAY BE DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE FOR ACCESS ROUTES THROUGH THE DURATION OF CONSTRUCTION. DAMAGE TO EXISTING CART PATHS CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED UPON COMPLETION OF THE PROJECT.

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/09/2021 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2021 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 |

APPLICANT/OWNER: **SUMMIT CLUB PARTNERS, LLC**
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ARCHITECT: **GRANOFF ARCHITECTS**
330 RAILROAD AVENUE
GREENWICH, CT 06030

J.M.C. Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
J.M.C. Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10554
PHONE: 914.233.2229 - FAX: 914.233.2192
www.jmcp.com



EROSION & SEDIMENT CONTROL/PHASING NOTES
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____

DATE: _____

CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD

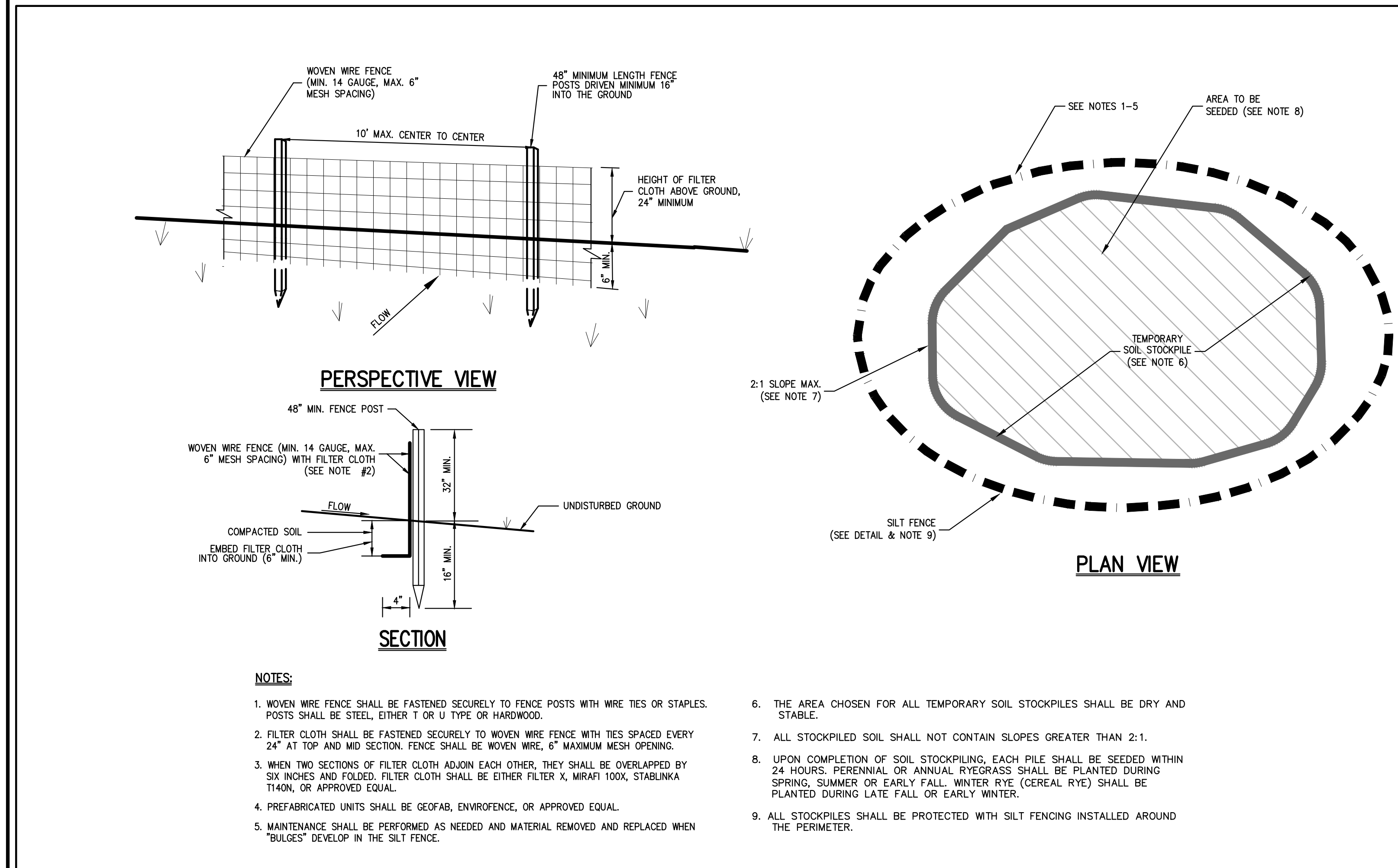
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

DATE: _____

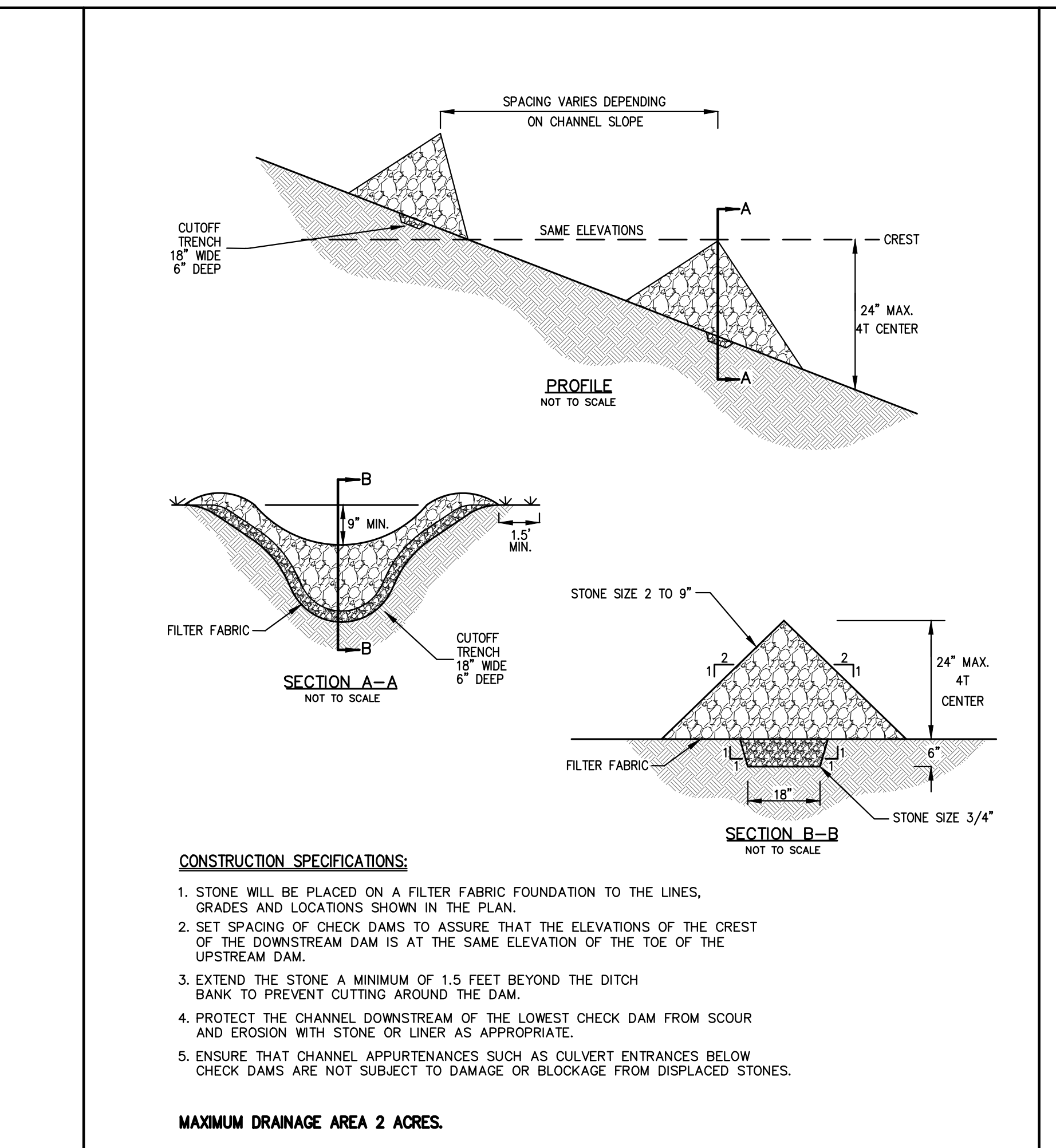
JOSEPH M. CERNILE, P.E.
KELLARD SESSONS CONSULTING, P.C.
CONSULTING TOWN ENGINEER

Scale: NOT TO SCALE
Date: 11/23/2020
Project No.: 20101
SHEET: 402 OF 402

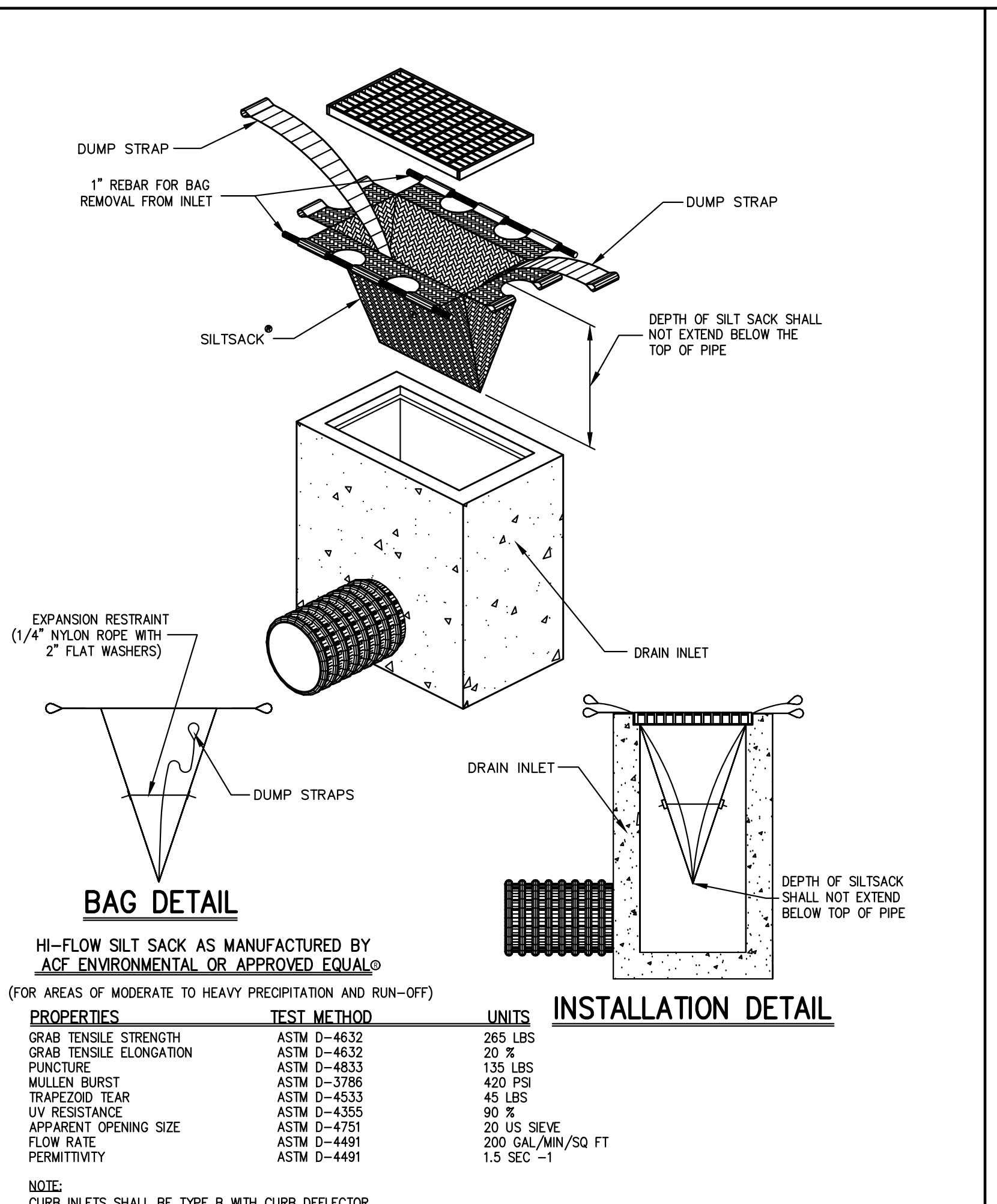
C-402



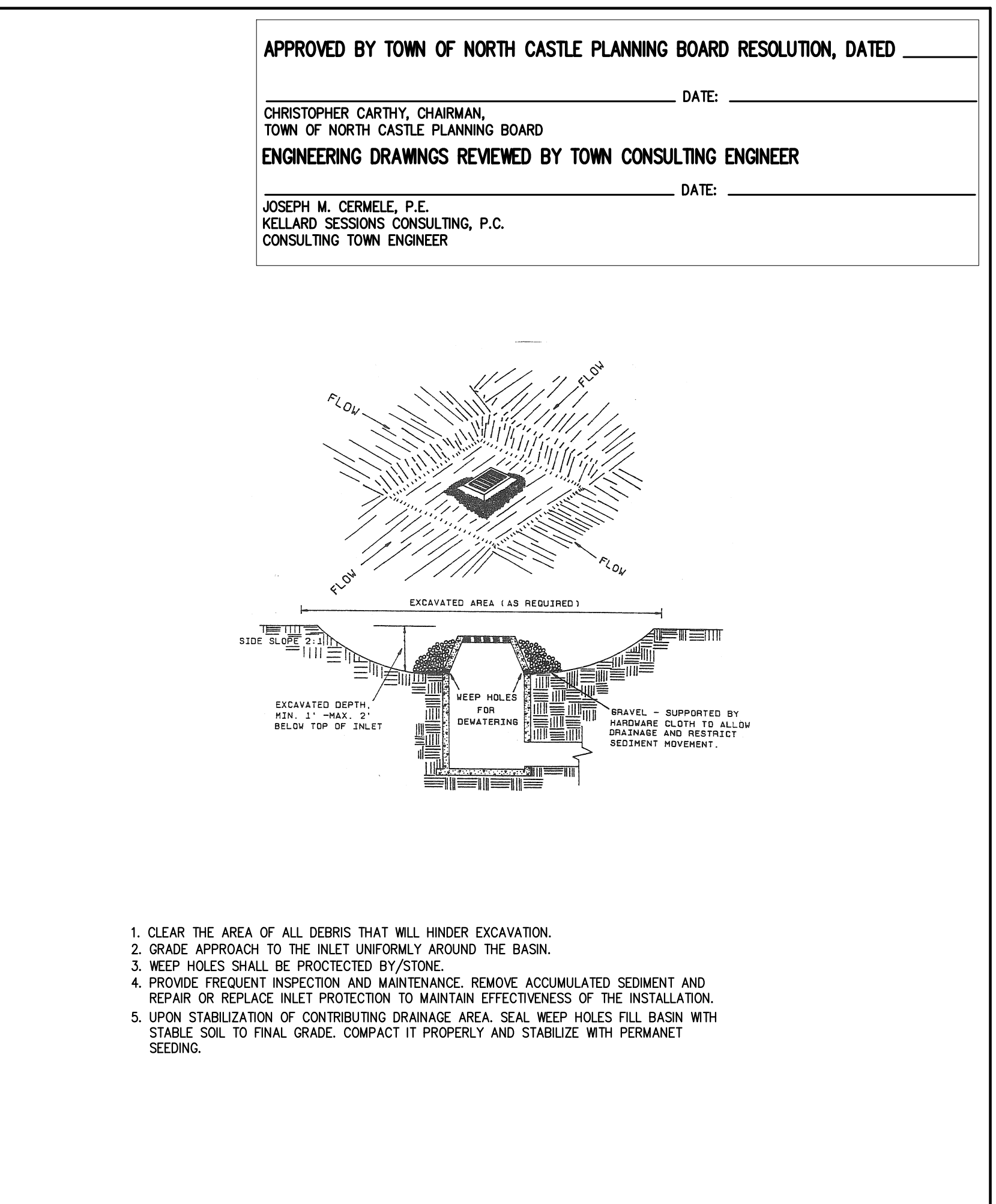
TEMPORARY SOIL STOCKPILE WITH SILT FENCE



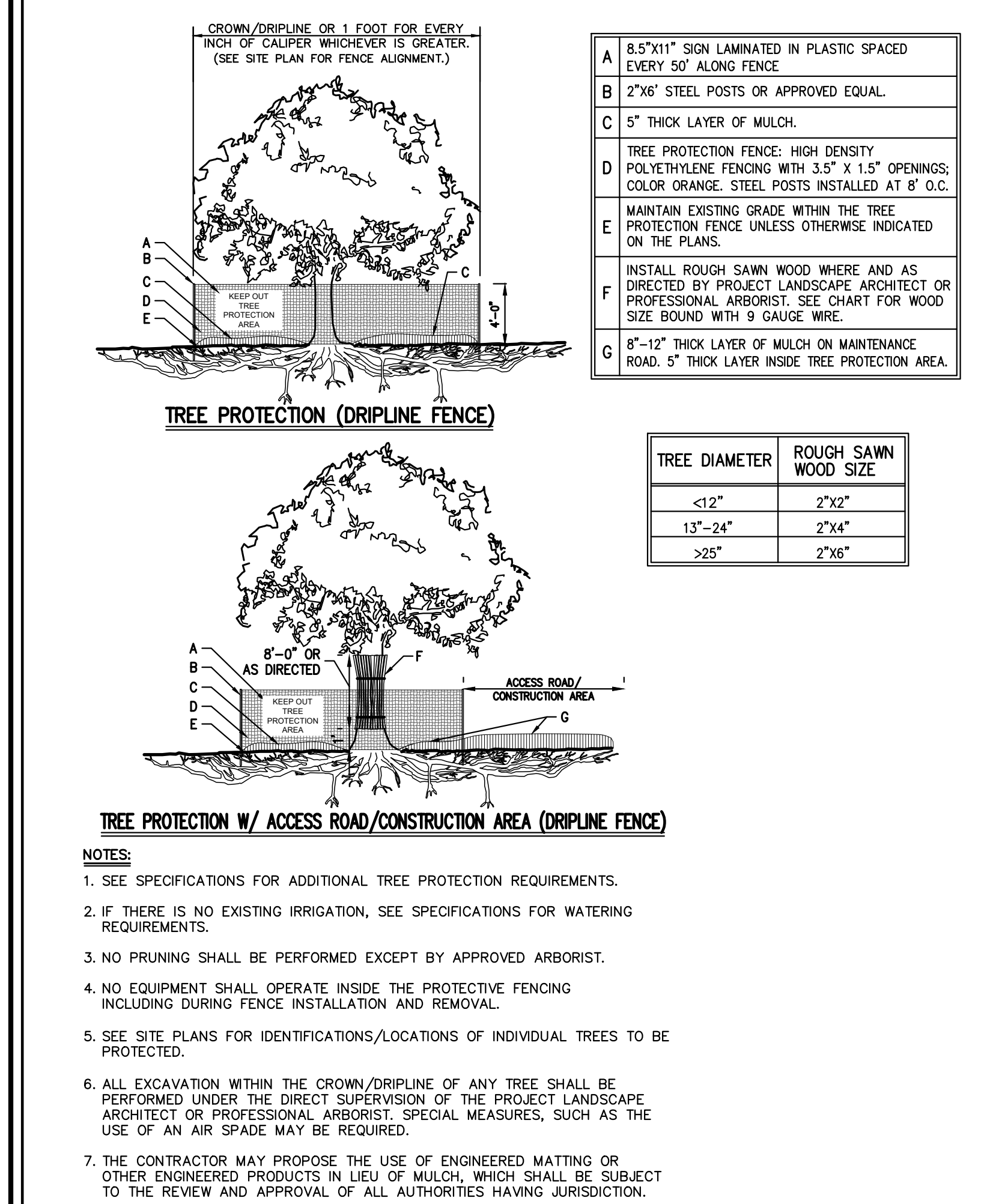
STONE CHECK DAM



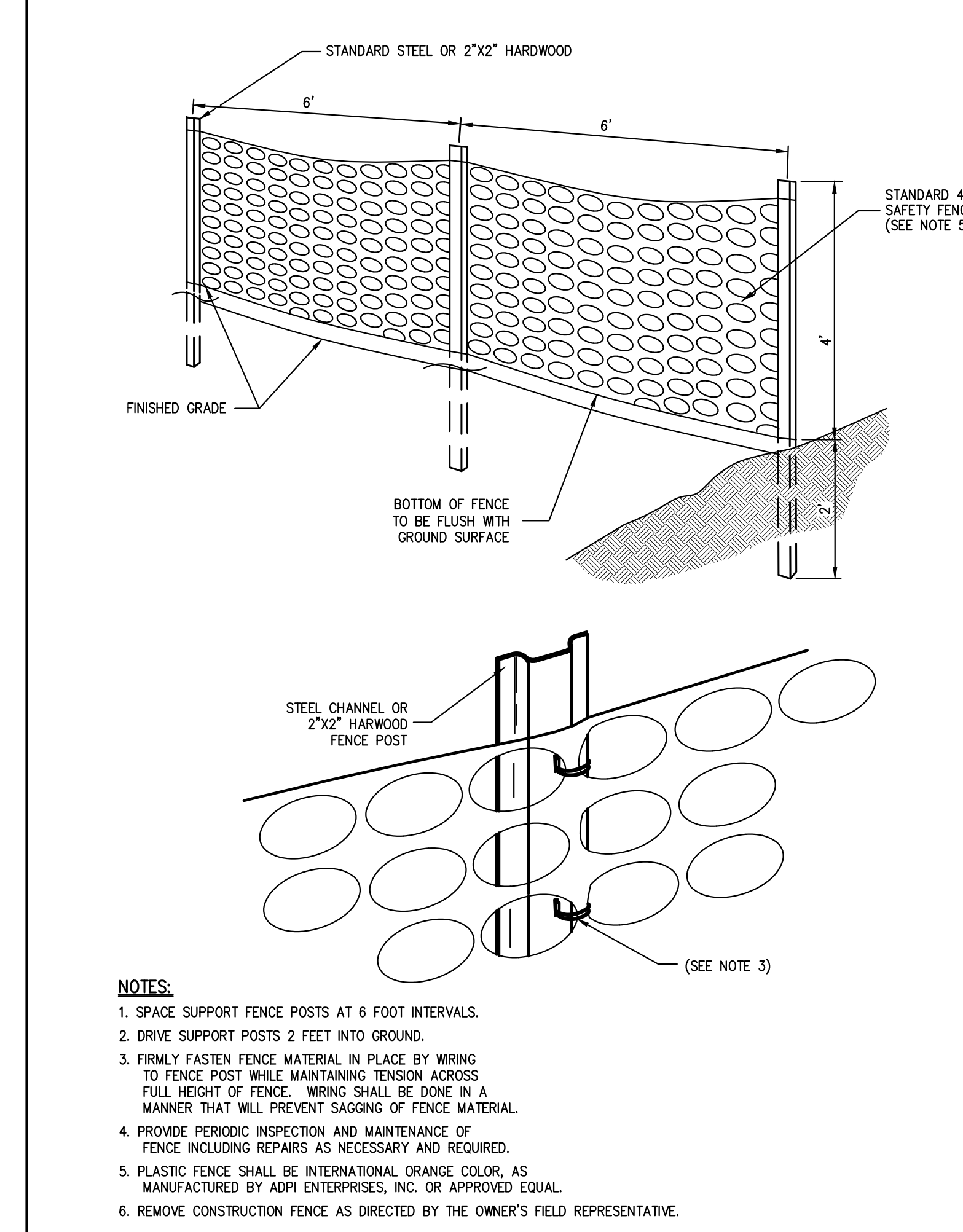
MANUFACTURED INSERT INLET PROTECTION



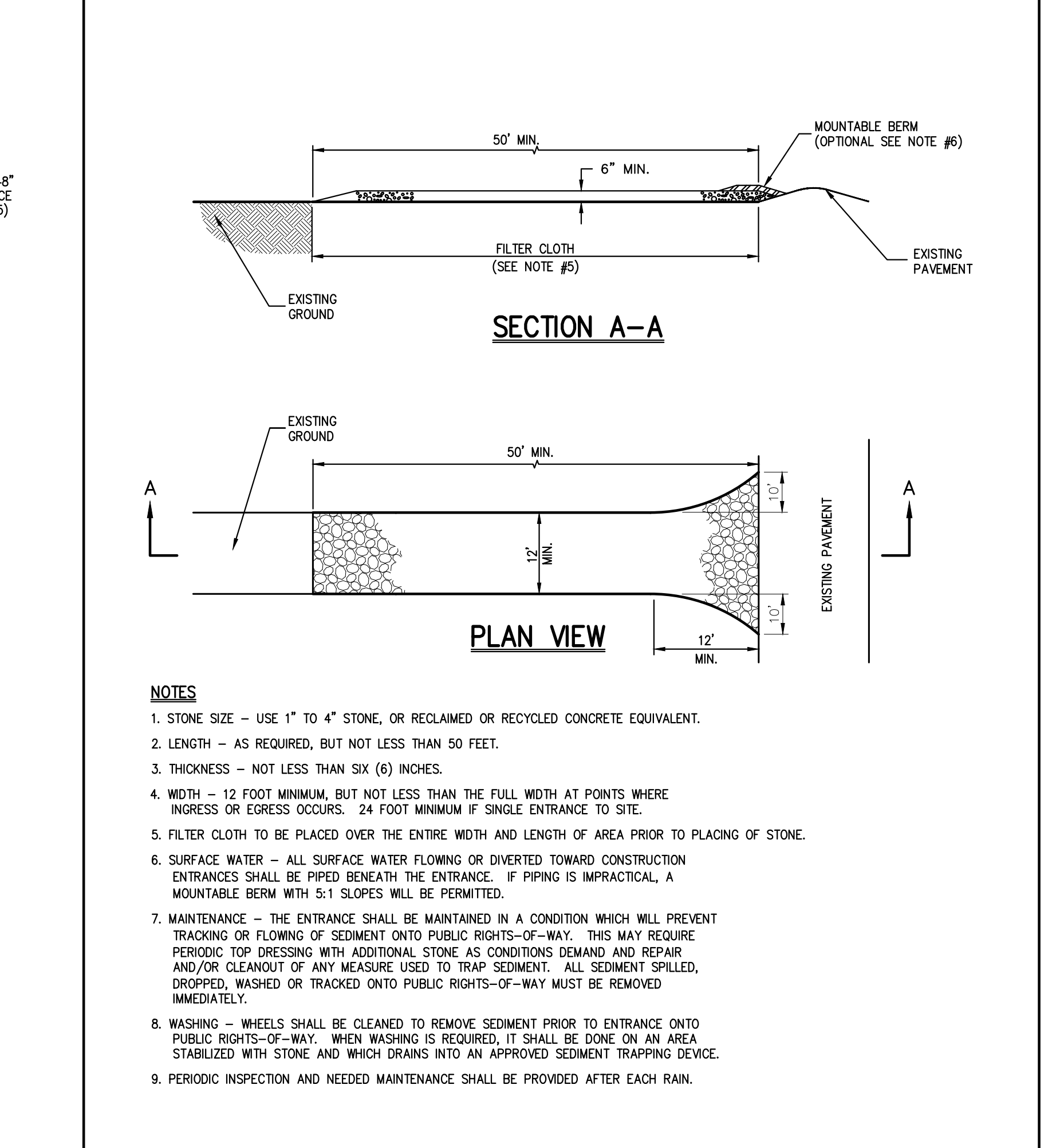
EXCAVATED DROP INLET PROTECTION



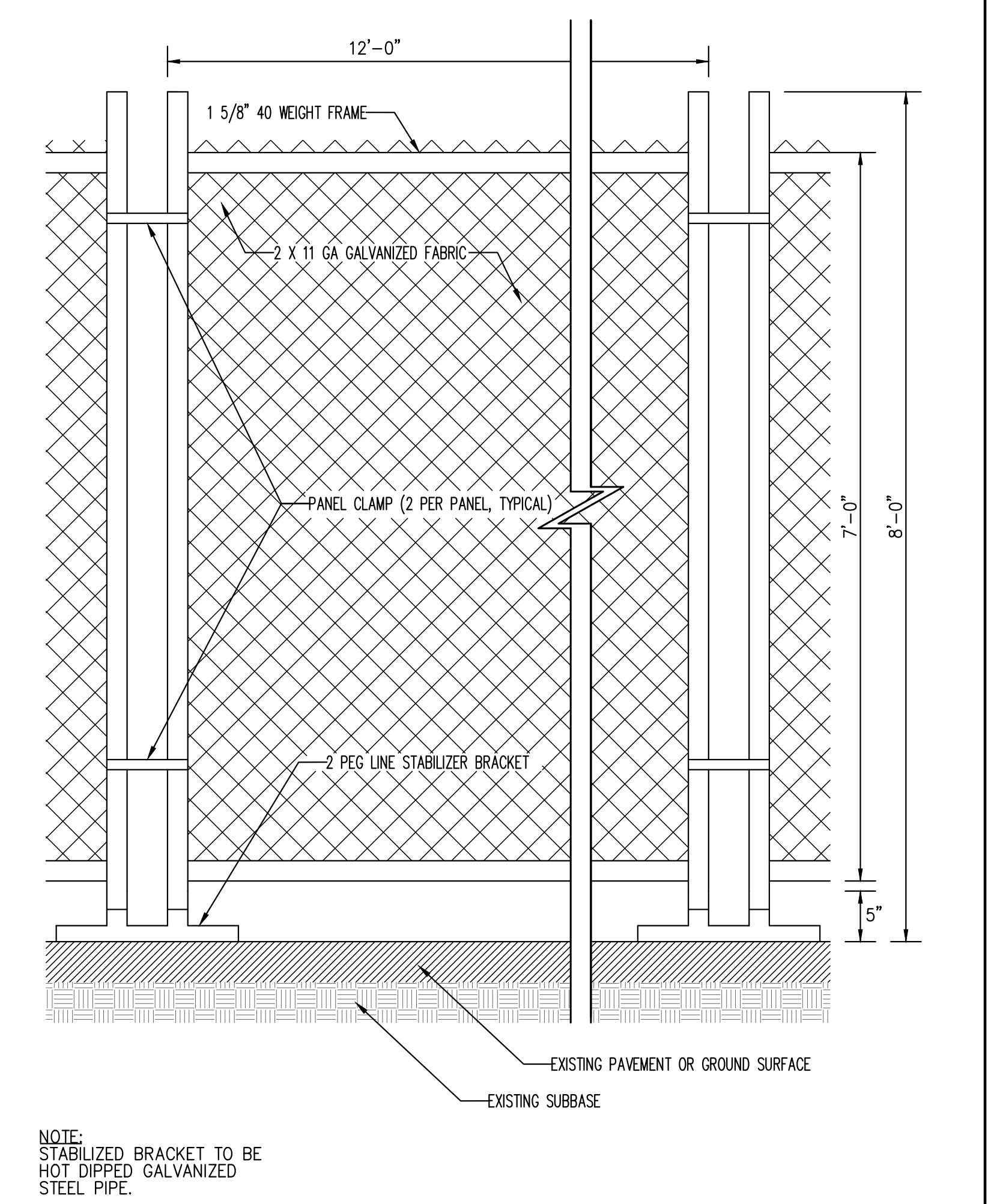
TREE PROTECTION



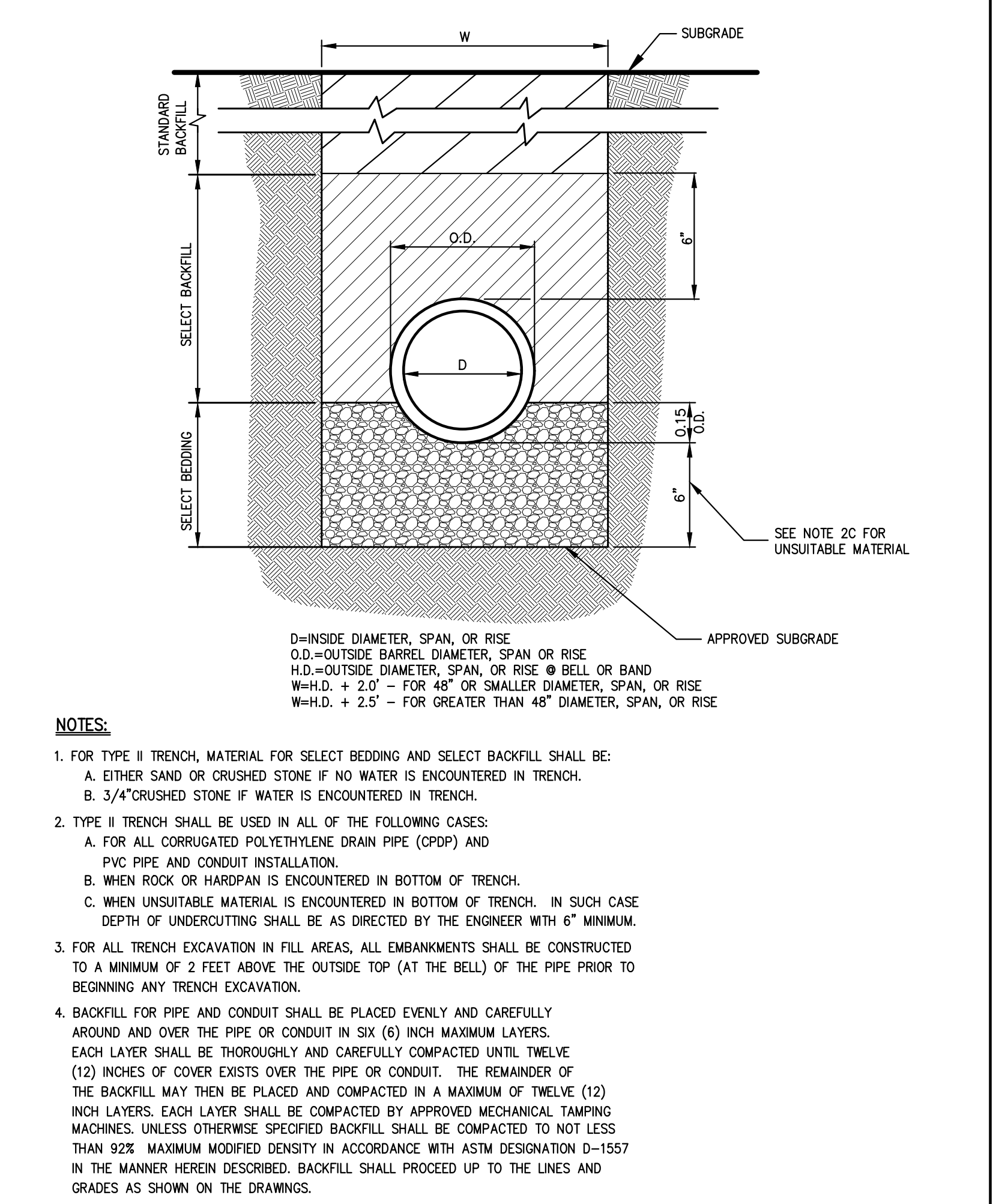
CONSTRUCTION FENCE



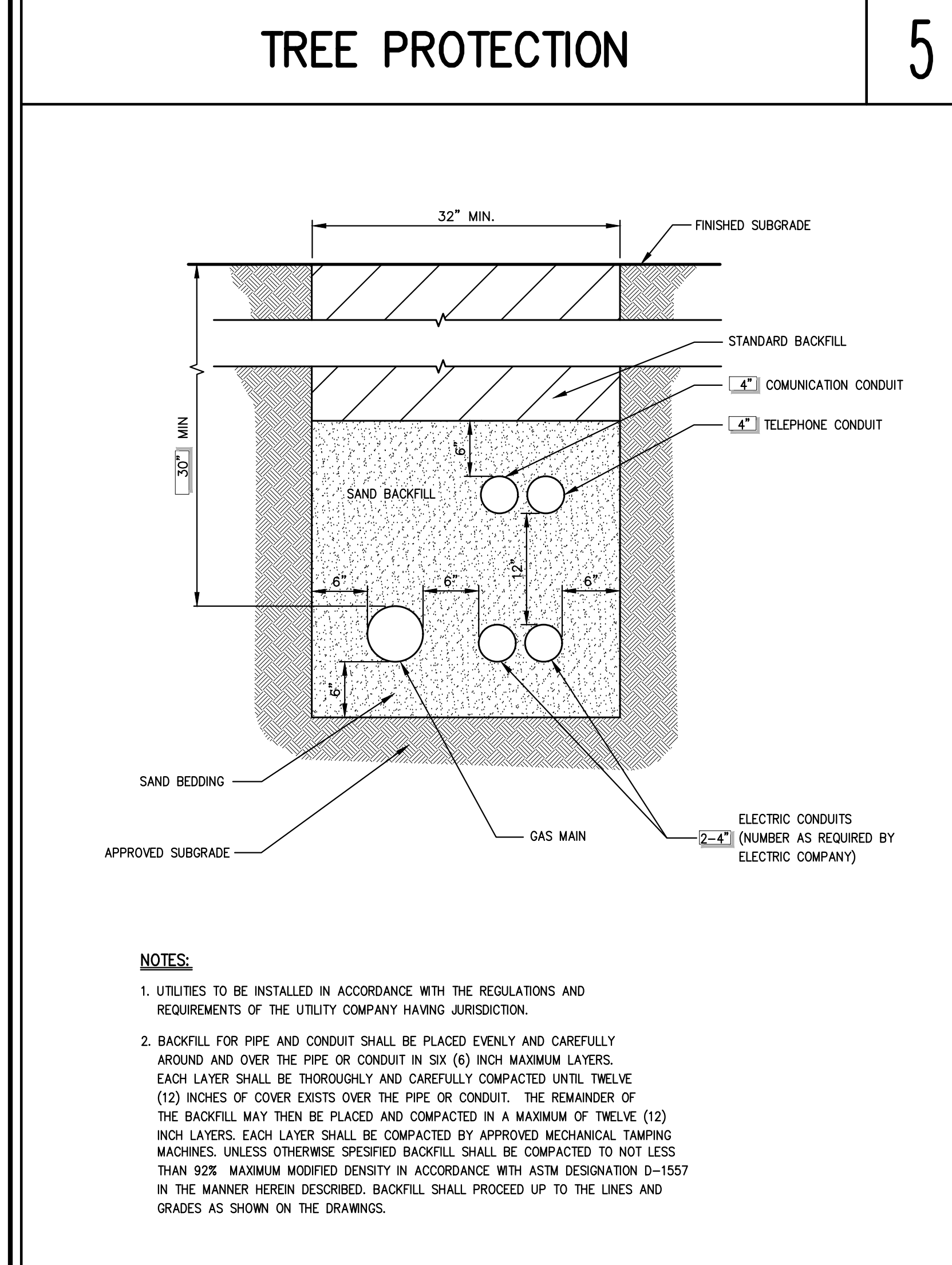
STABILIZED CONSTRUCTION ENTRANCE



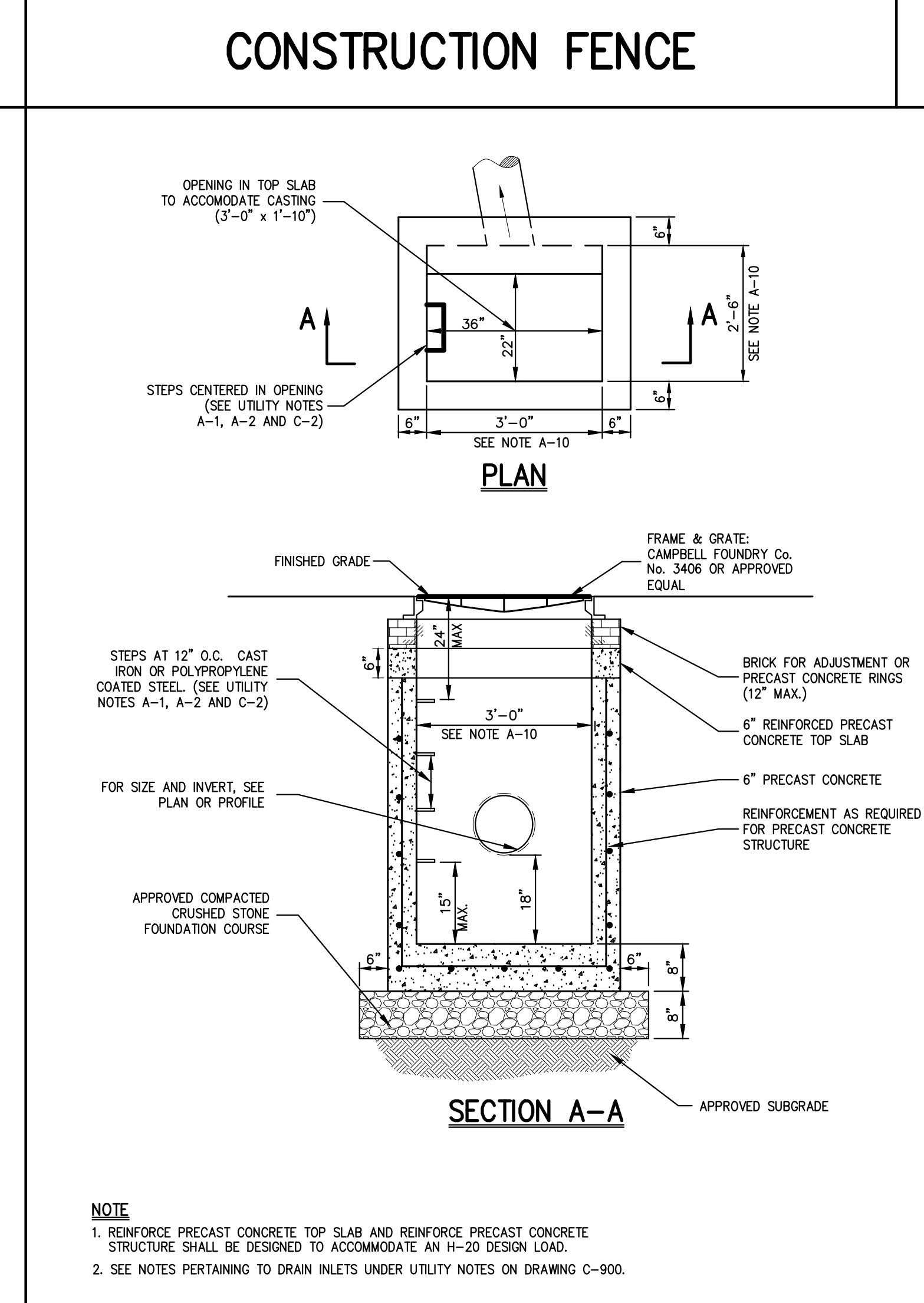
TEMPORARY CHAIN LINK CONSTRUCTION FENCE



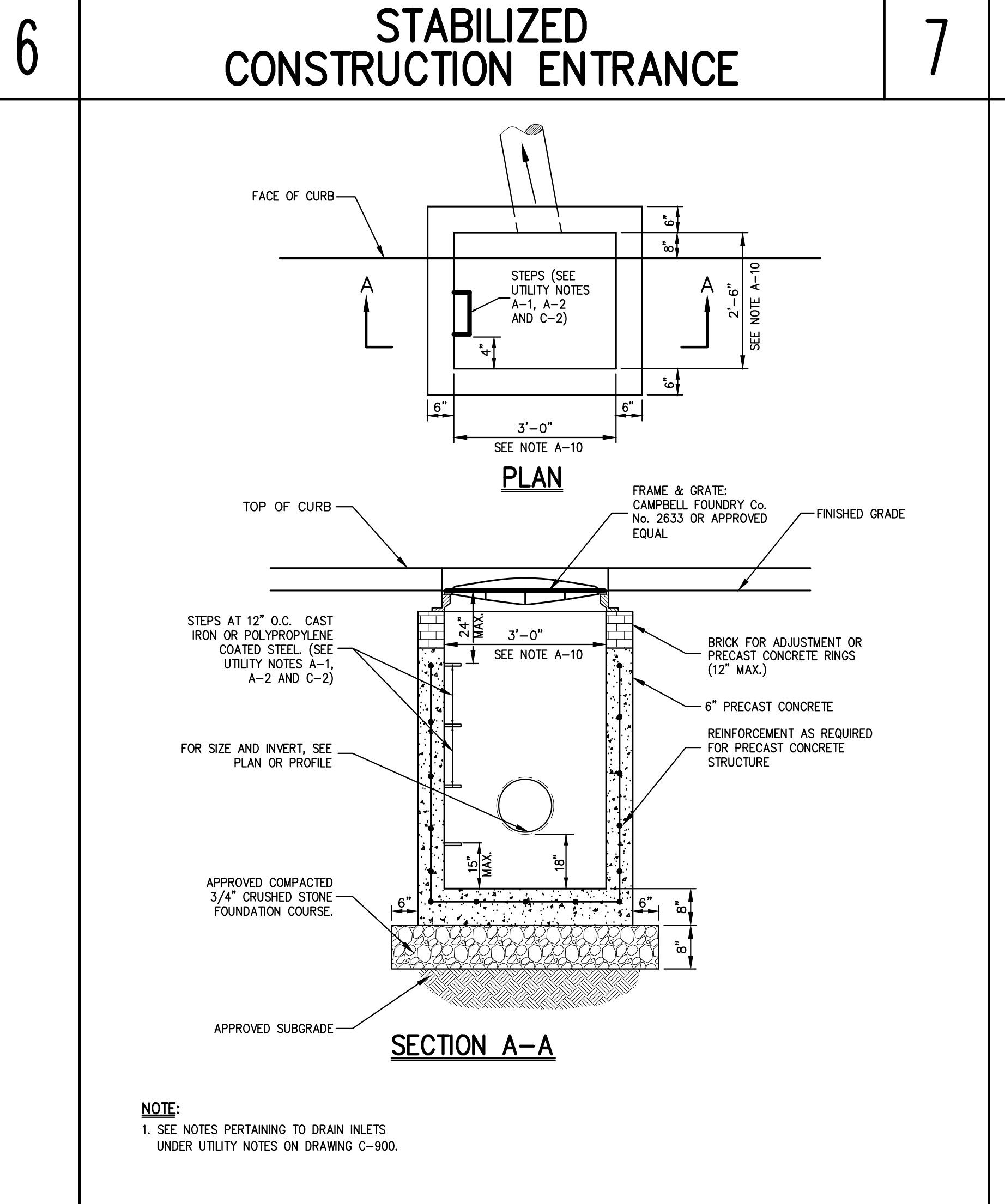
TYPE II TRENCH



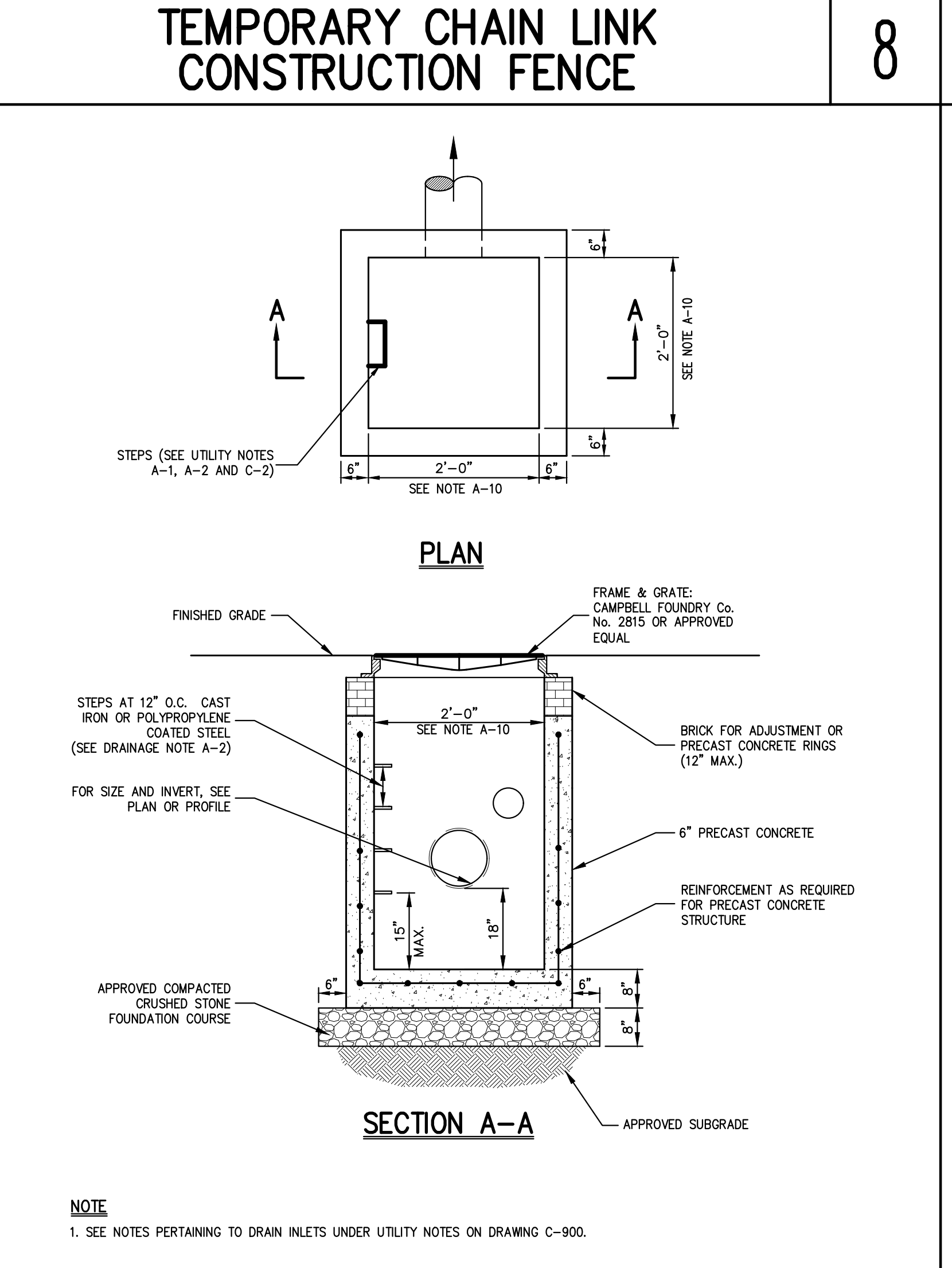
UTILITY TRENCH DETAIL



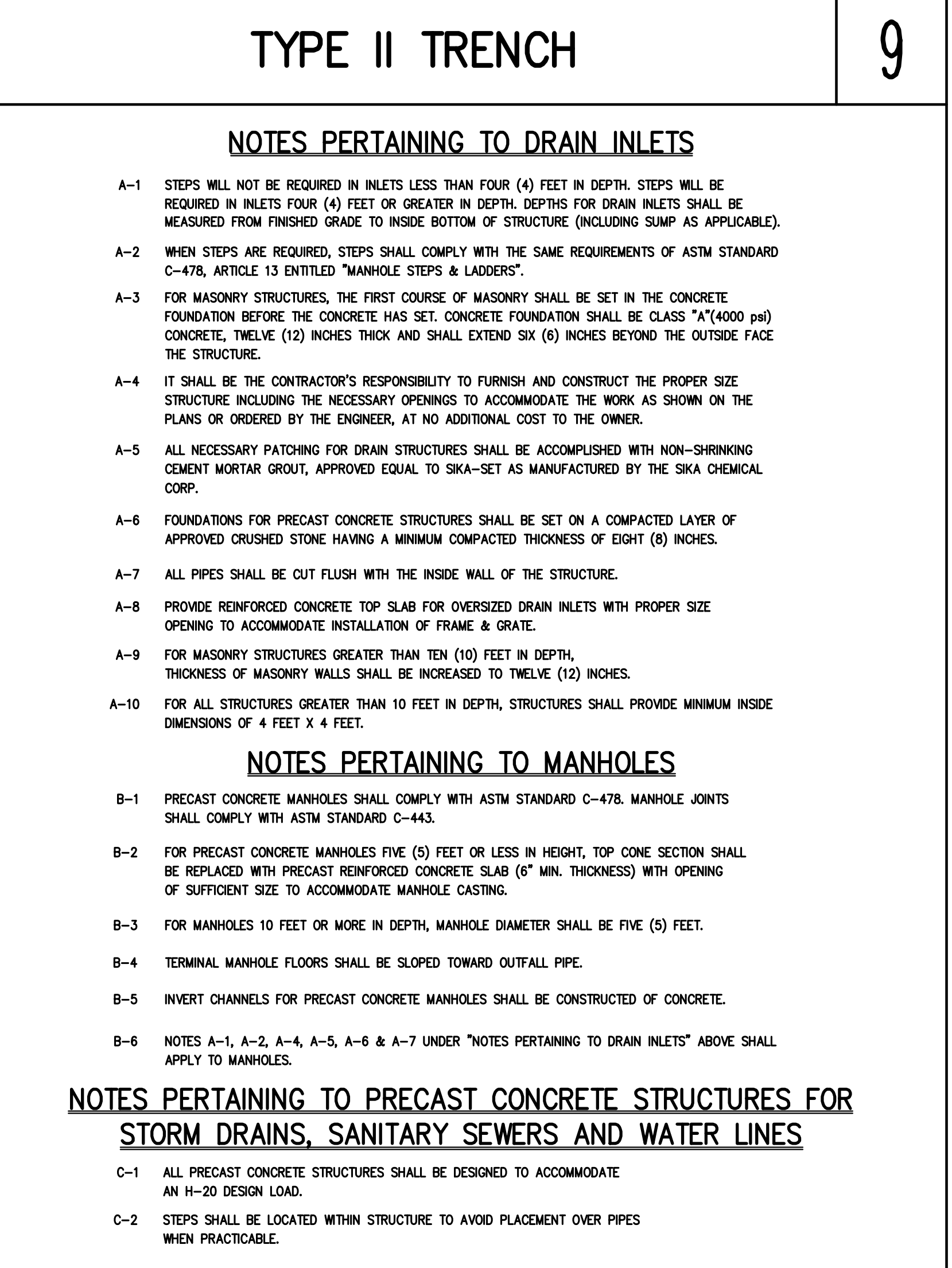
DRAIN INLET (TYPE DI)



DRAIN INLET (TYPE CI)



LAWN INLET (TYPE LI)



UTILITY NOTES

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE _____

CHRISTOPHER CATHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. CERMELE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

APPLICANT: SUMMIT CLUB PARTNERS, LLC 566 BEDFORD ROAD (NY-22) ARMONK, NY 10504

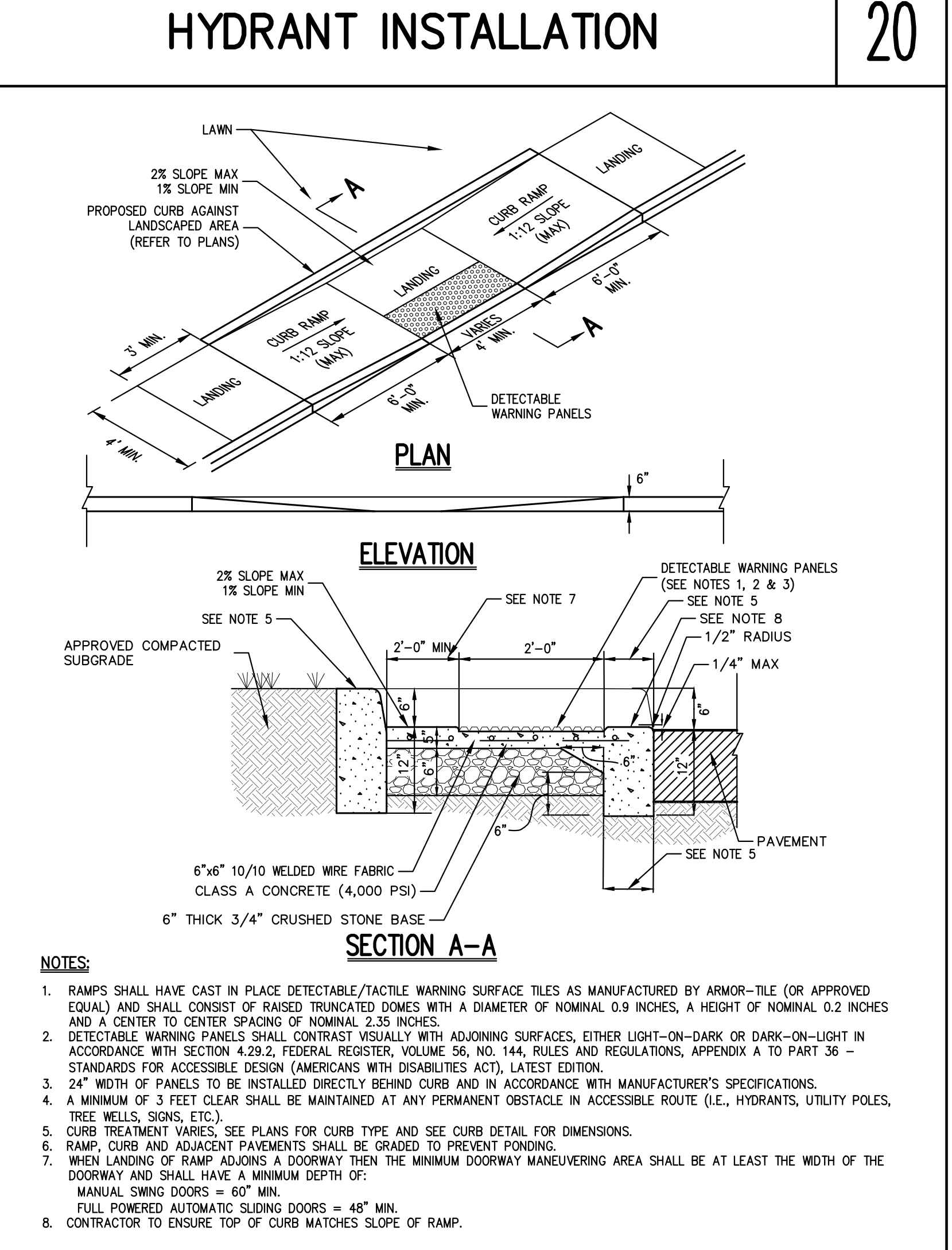
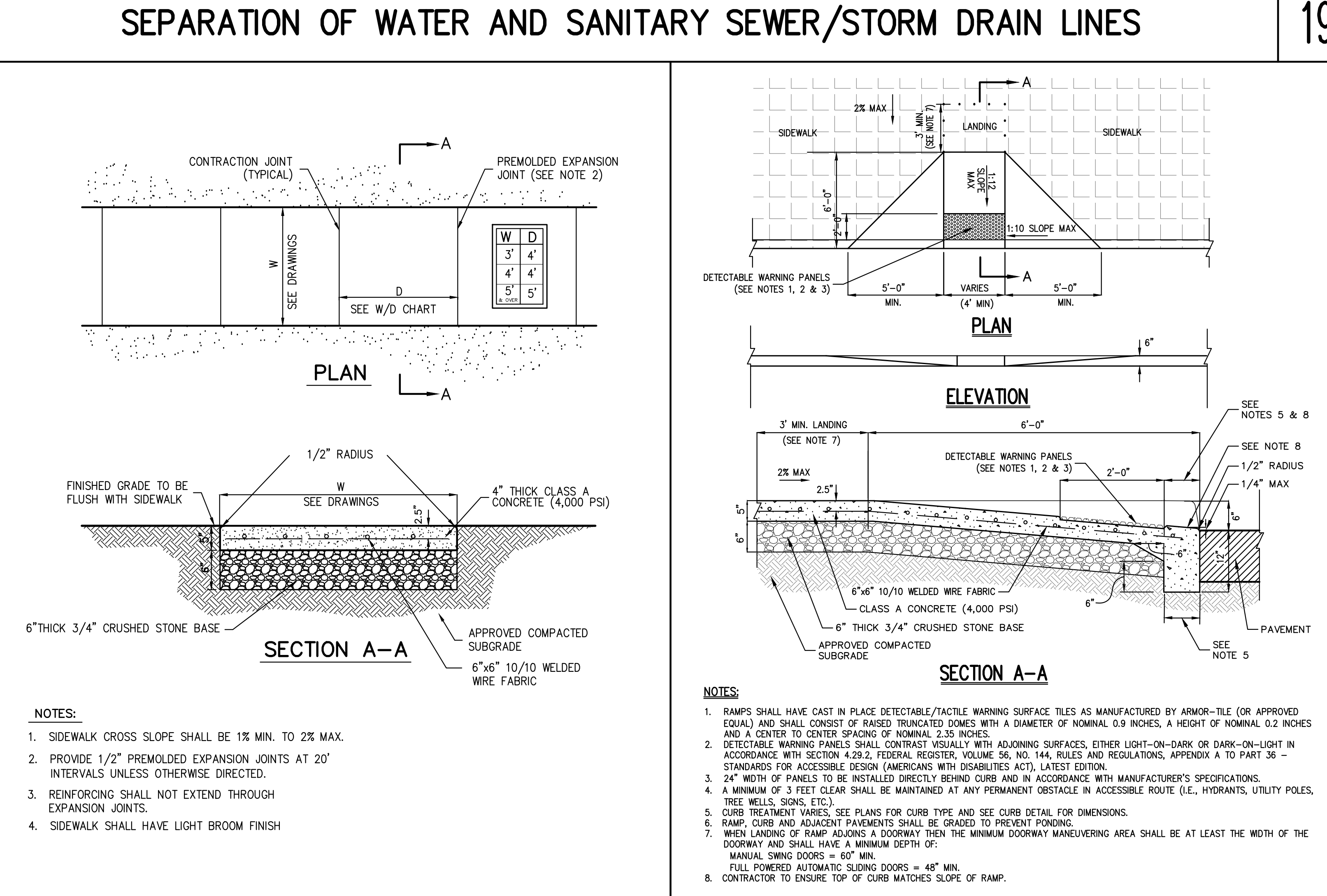
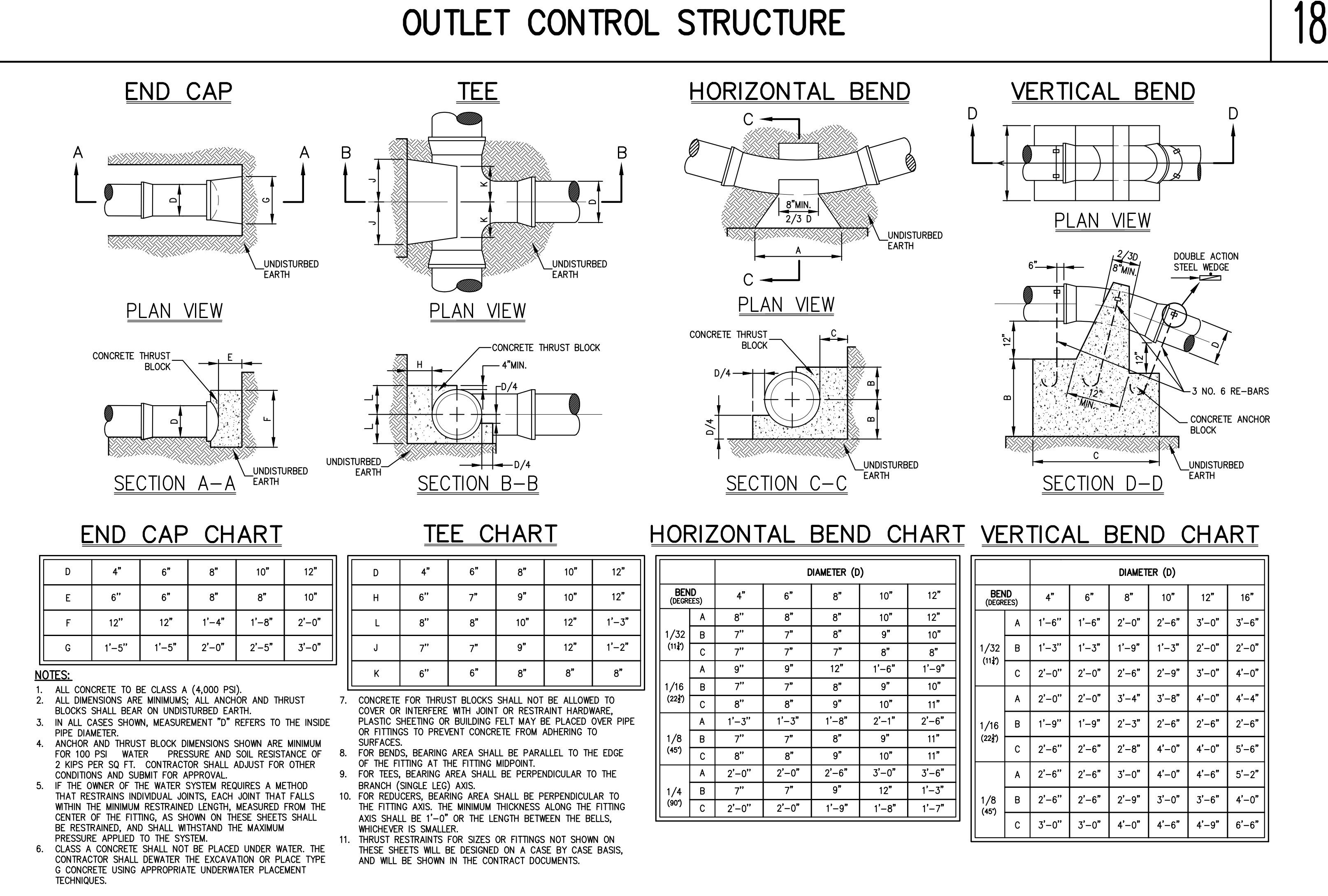
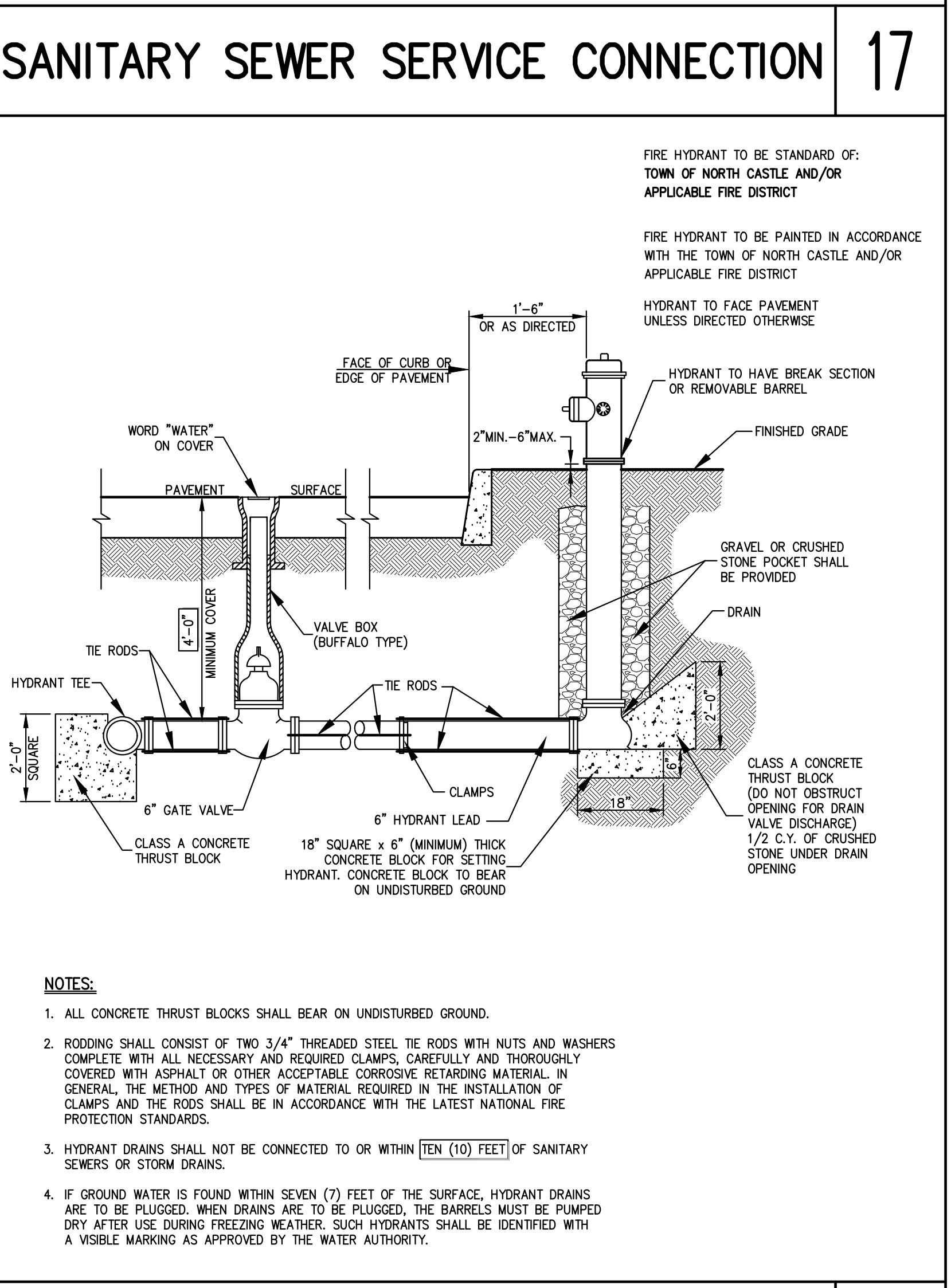
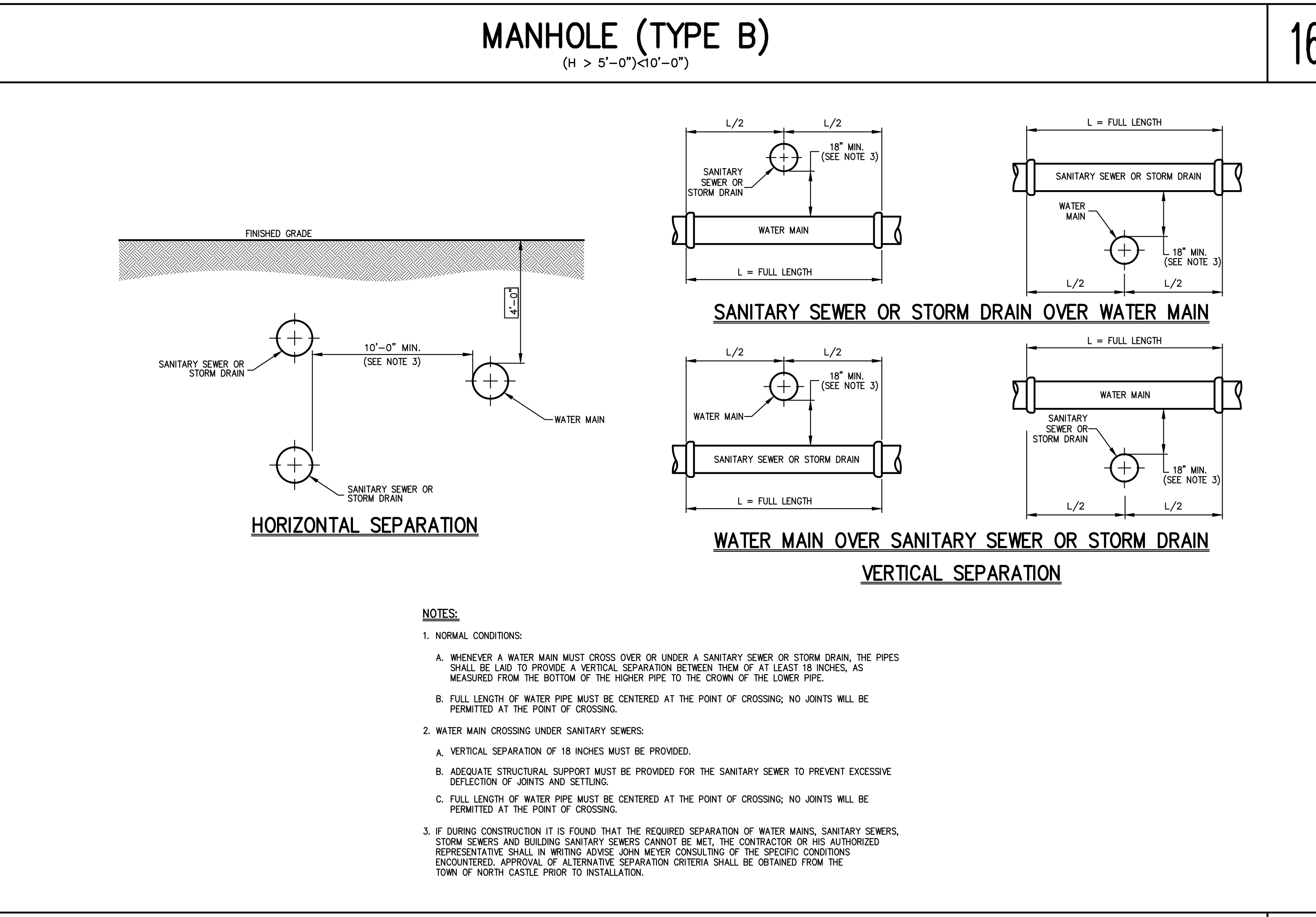
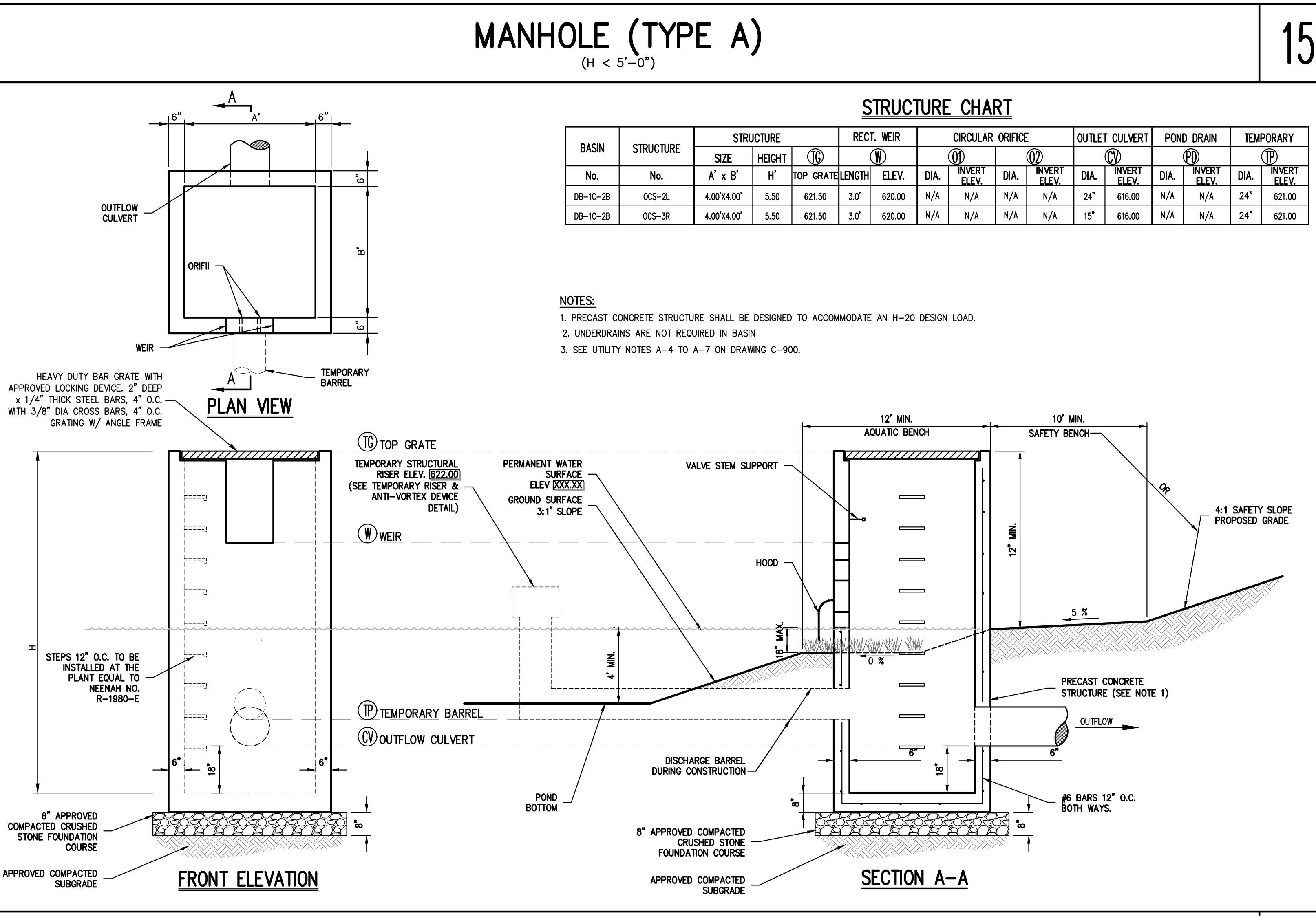
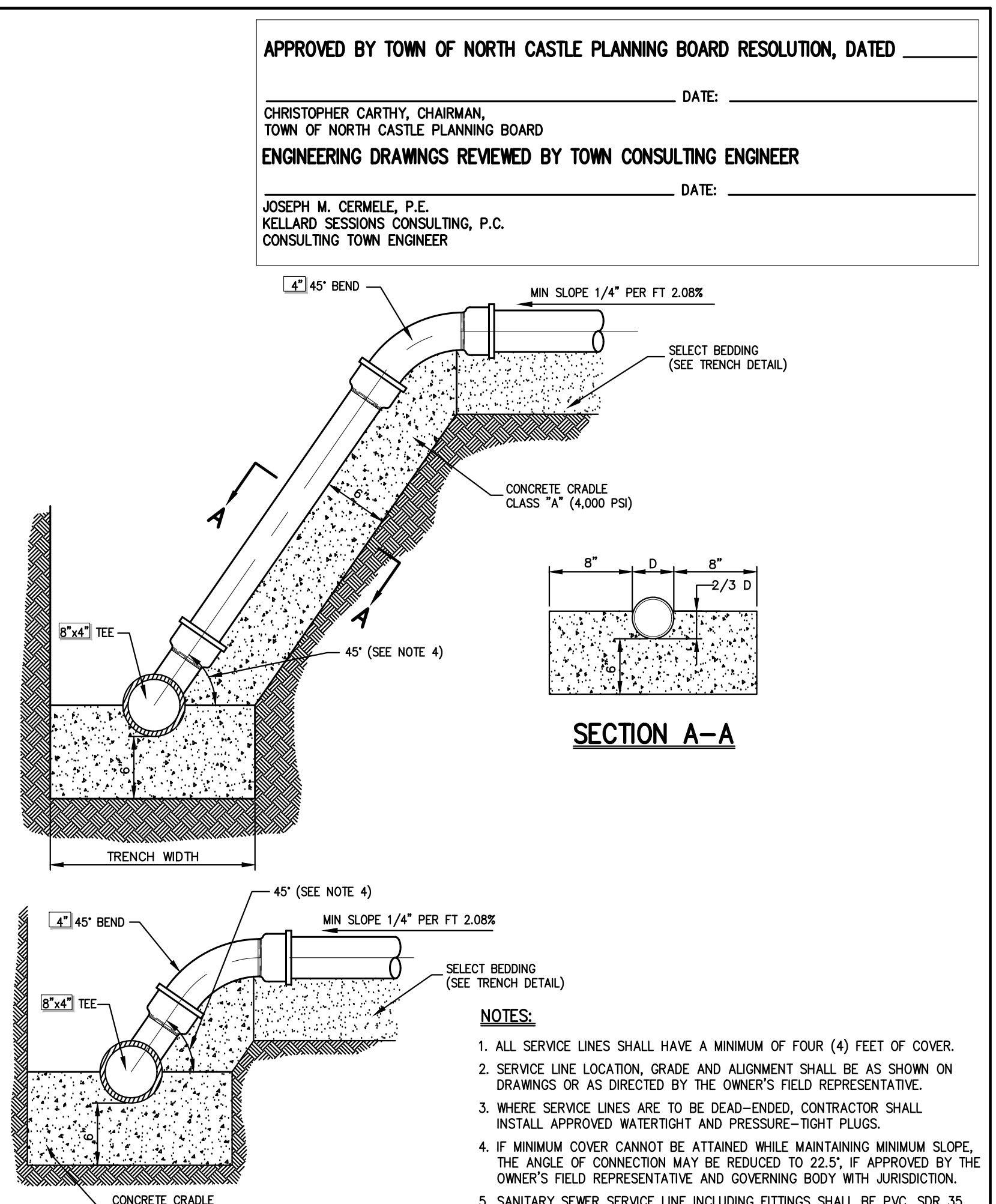
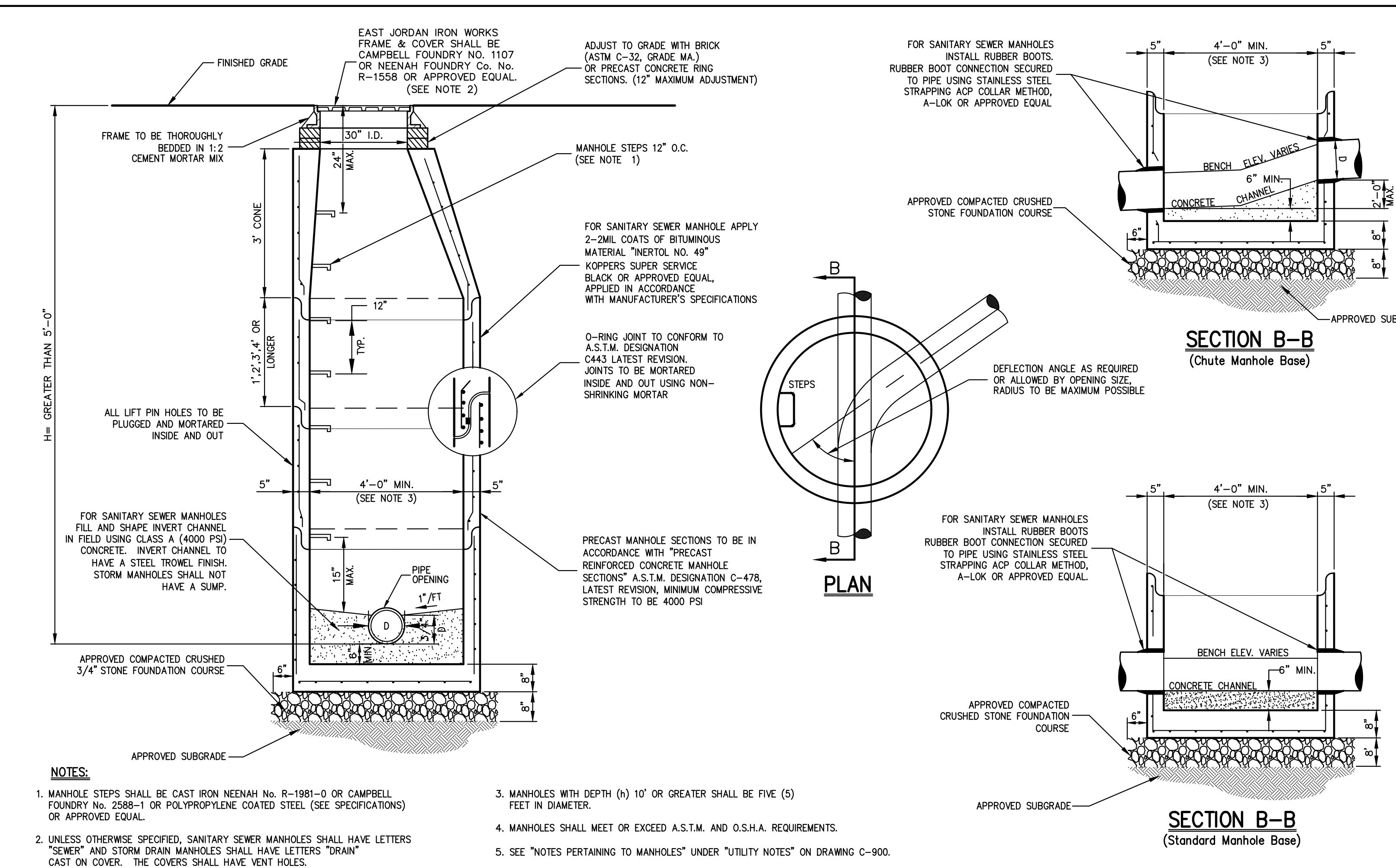
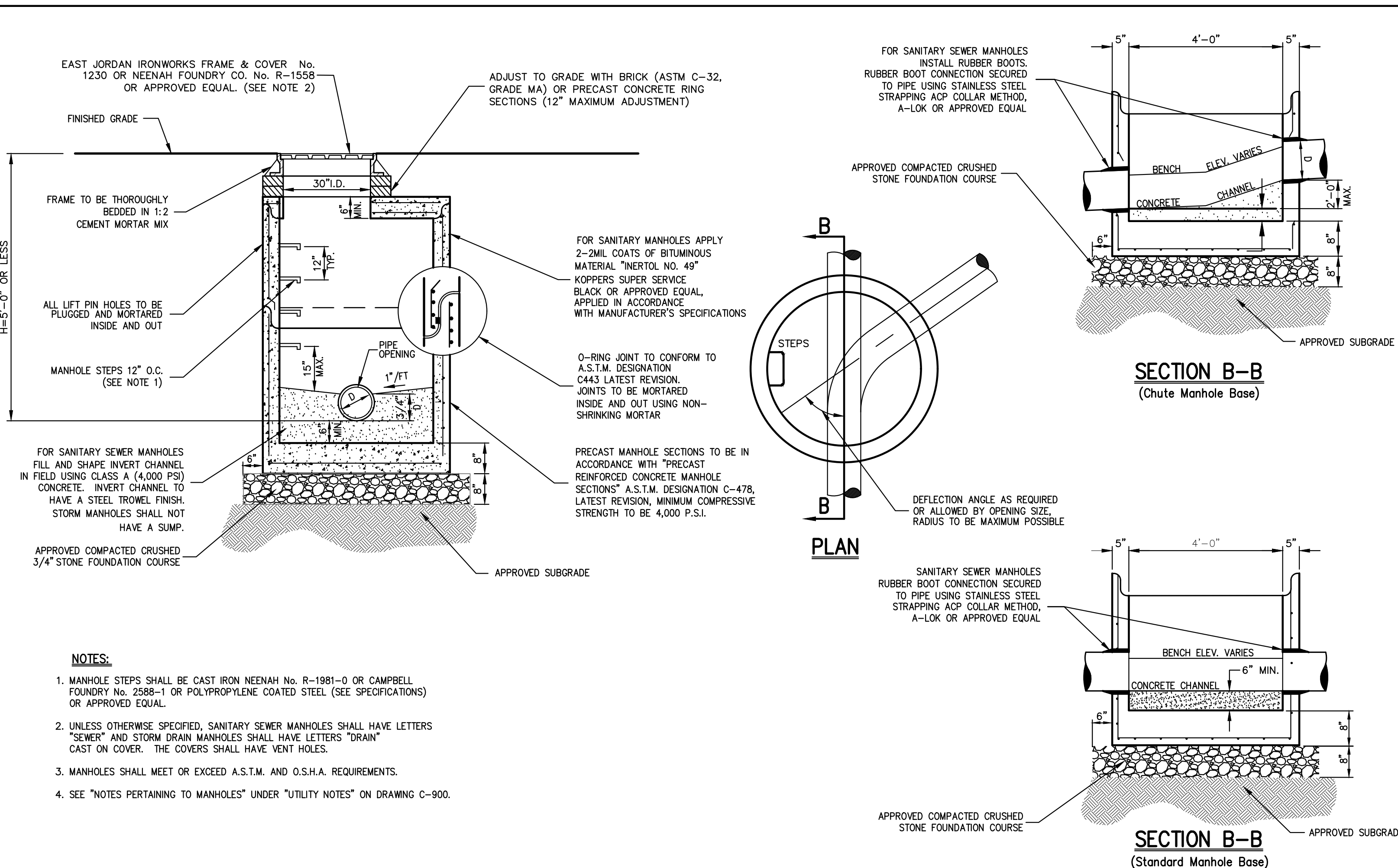
ARCHITECT: GRANOFF ARCHITECTS 330 RAILROAD AVENUE GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, LLC 1208590900 16409 - ARMONK, NY 10504 voice 914 233 5233 - fax 914 272 2702 www.jmcinc.com

CONSTRUCTION DETAILS THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE) 566 & 570 BEDFORD ROAD (NY-22) ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Drawn: NC Approved: AG Scale: NOT TO SCALE Date: 11/23/2020 Project No: 20101 SHEET: C-900



APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE _____

CHRISTOPHER CATHY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. CERMELE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER

DATE _____

APPLICANT: SUMMIT CLUB PARTNERS, LLC 568 BEDFORD ROAD (NY-22) ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS 330 RAILROAD AVENUE GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, LLC John Meyer Consulting, Inc. 120 BEDFORD ROAD - ARMONK, NY 10504 voice 914.233.5233 fax 914.273.2702 www.jmcplc.com

CONSTRUCTION DETAILS THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE) 568 & 570 BEDFORD ROAD (NY-22) ARMONK, NY 10504

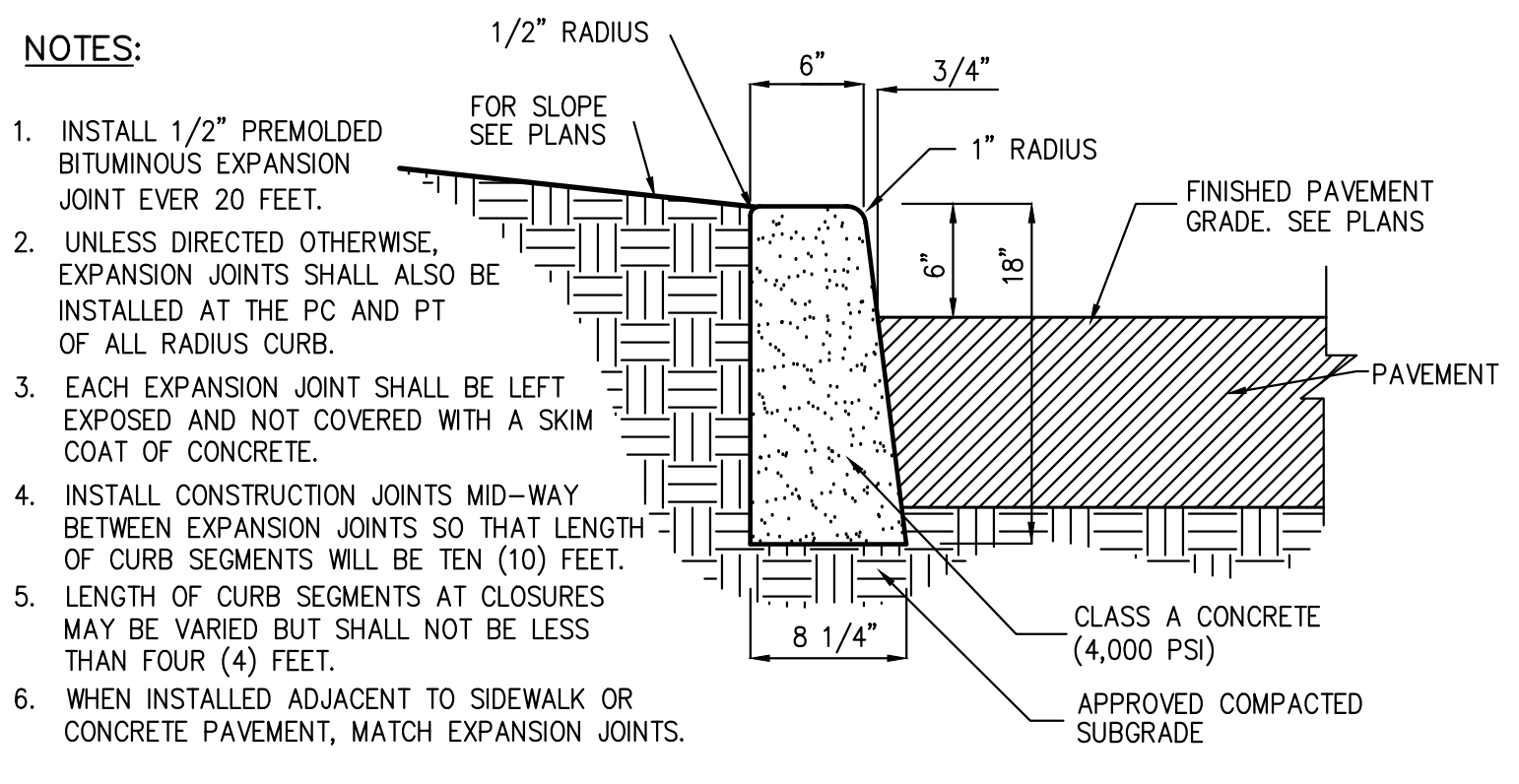
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Scale: NC Approved AG

Date: 11/23/2020

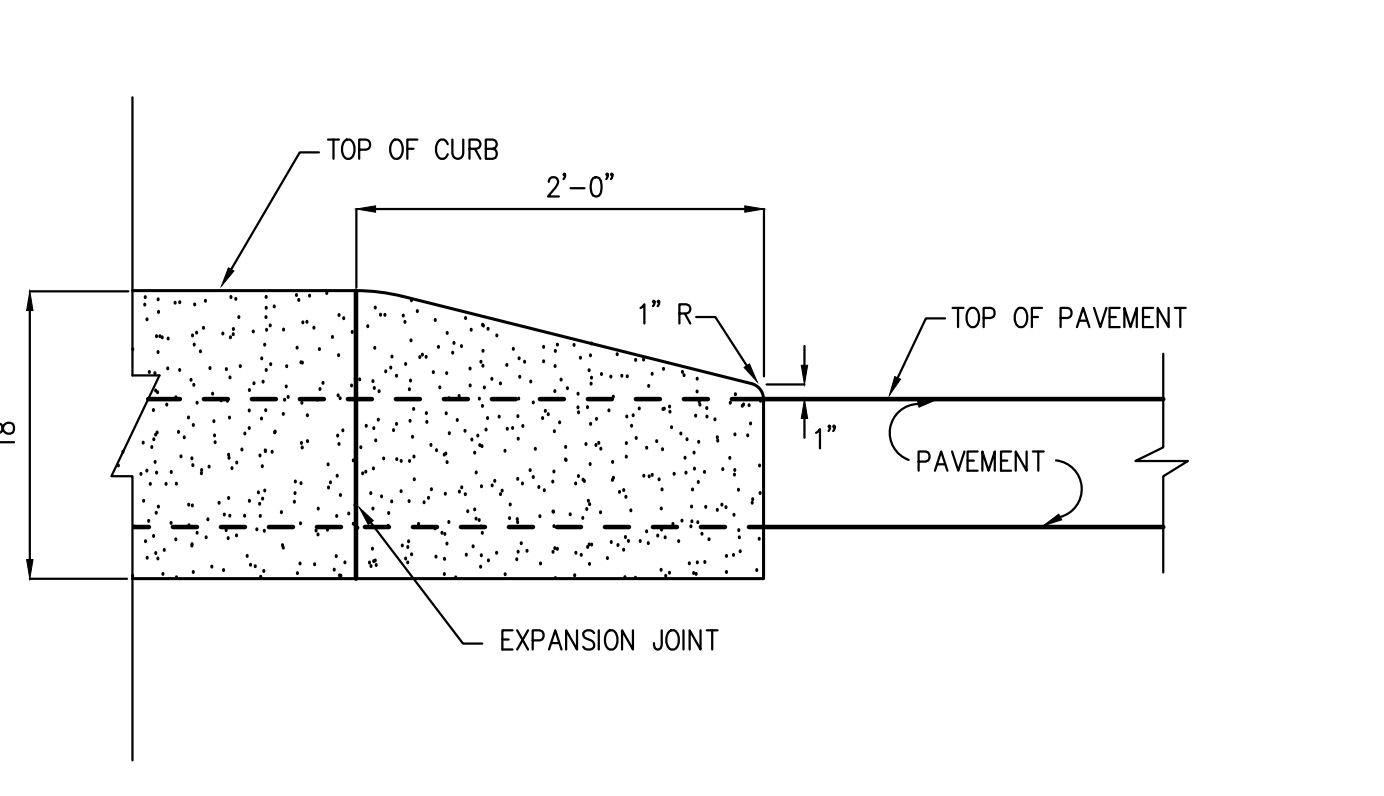
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Sheet No: C-901



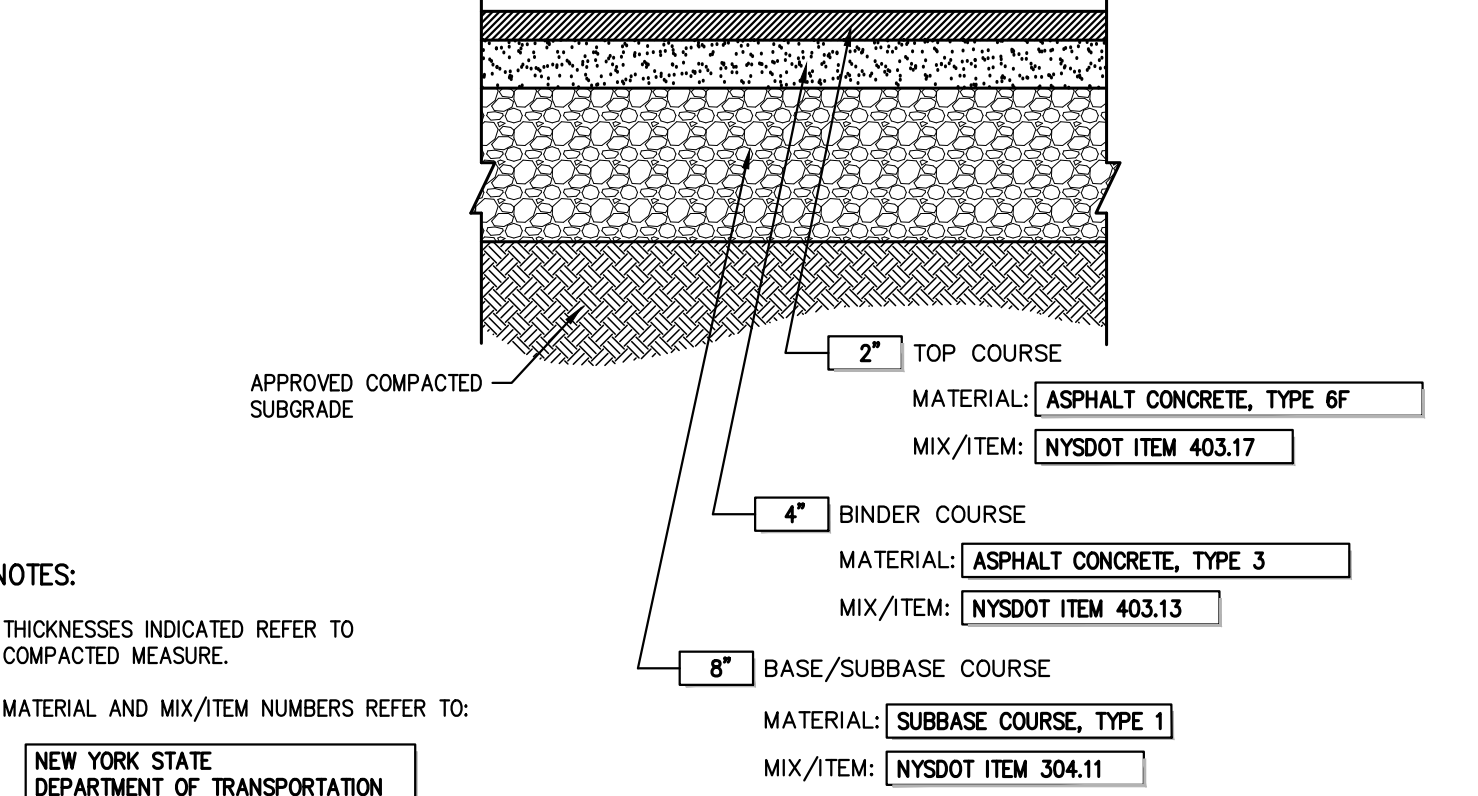
CAST-IN-PLACE CONCRETE CURB

25



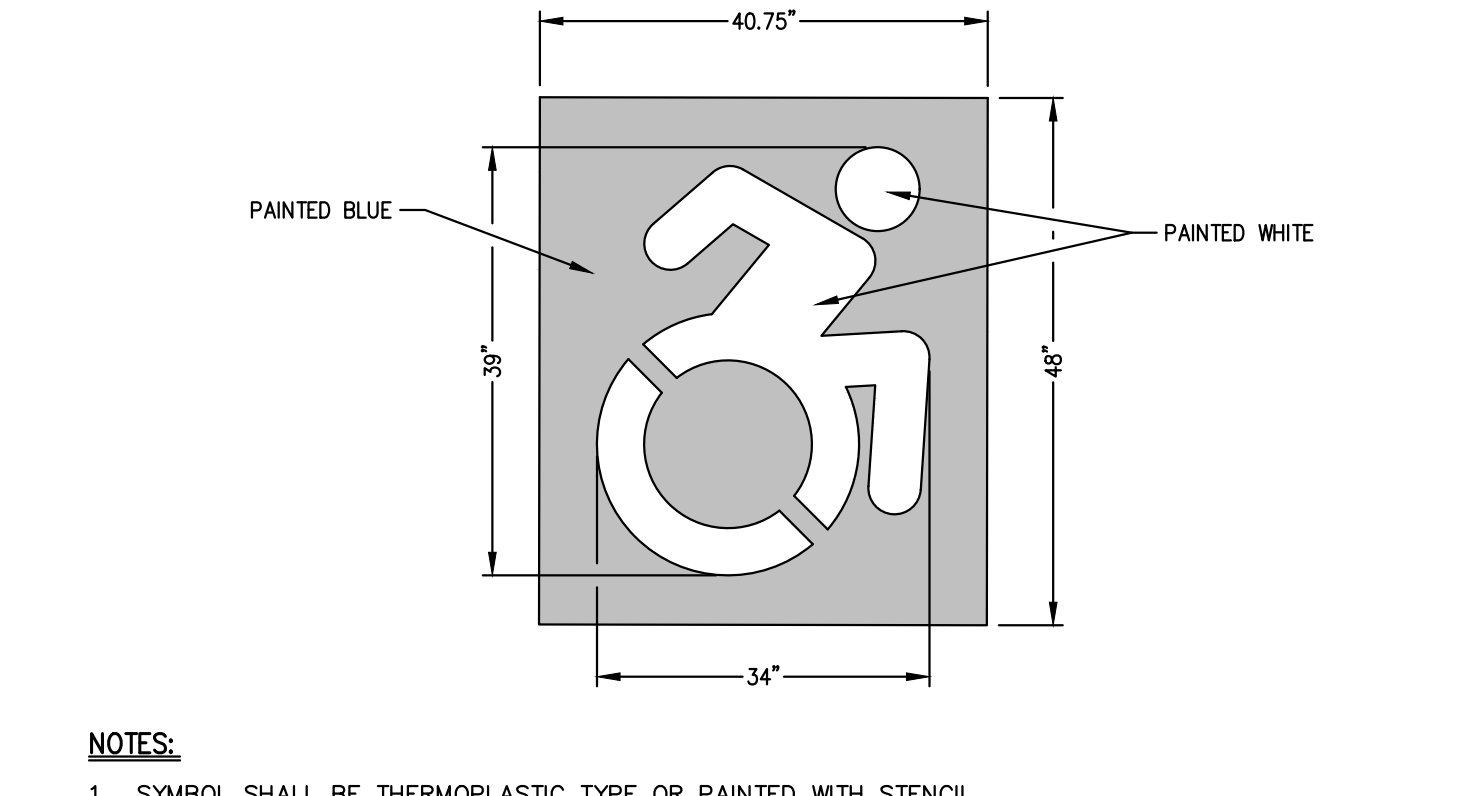
CONCRETE CURB ENDING

26



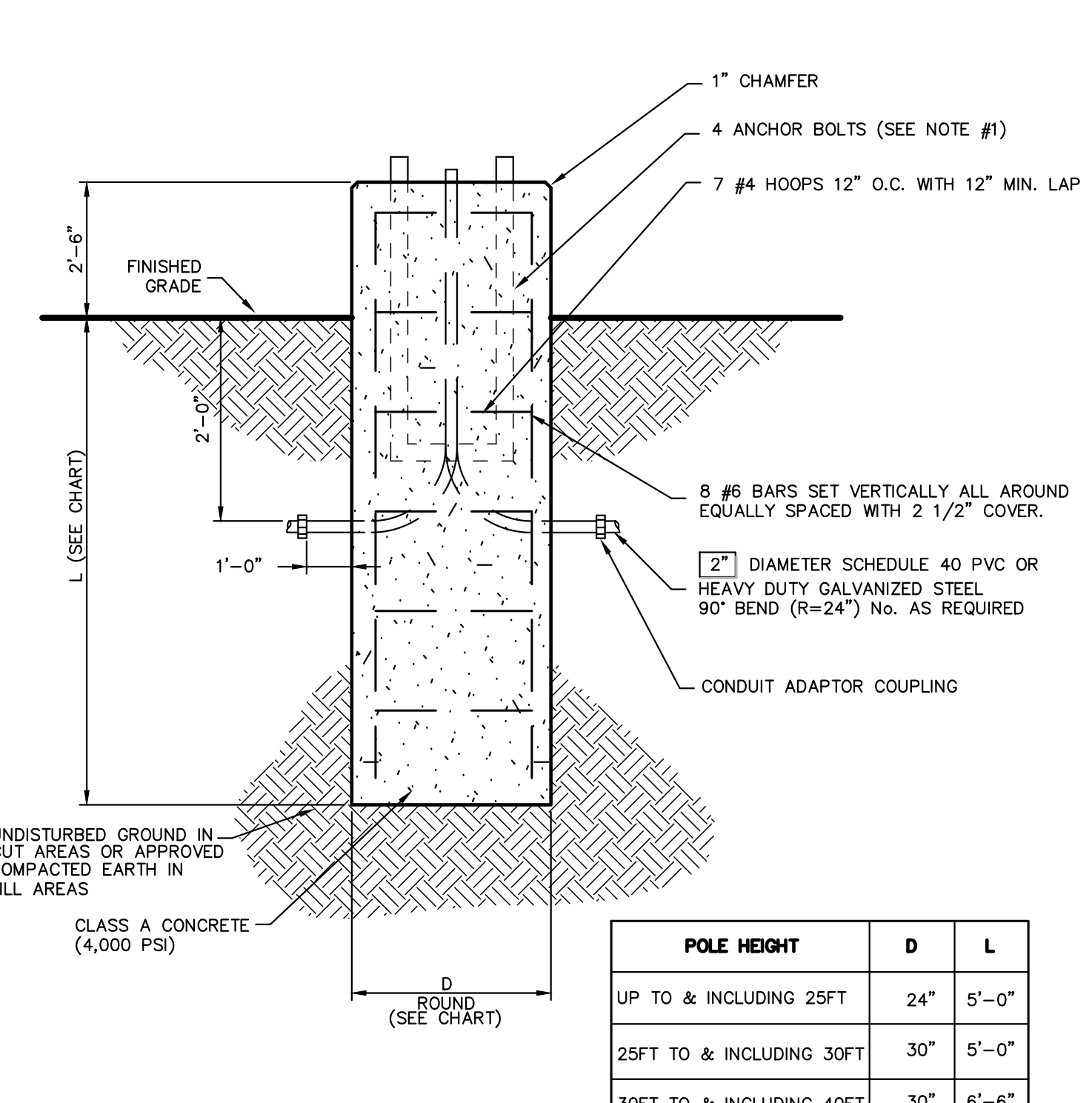
SITE PAVEMENT (HEAVY DUTY)

27



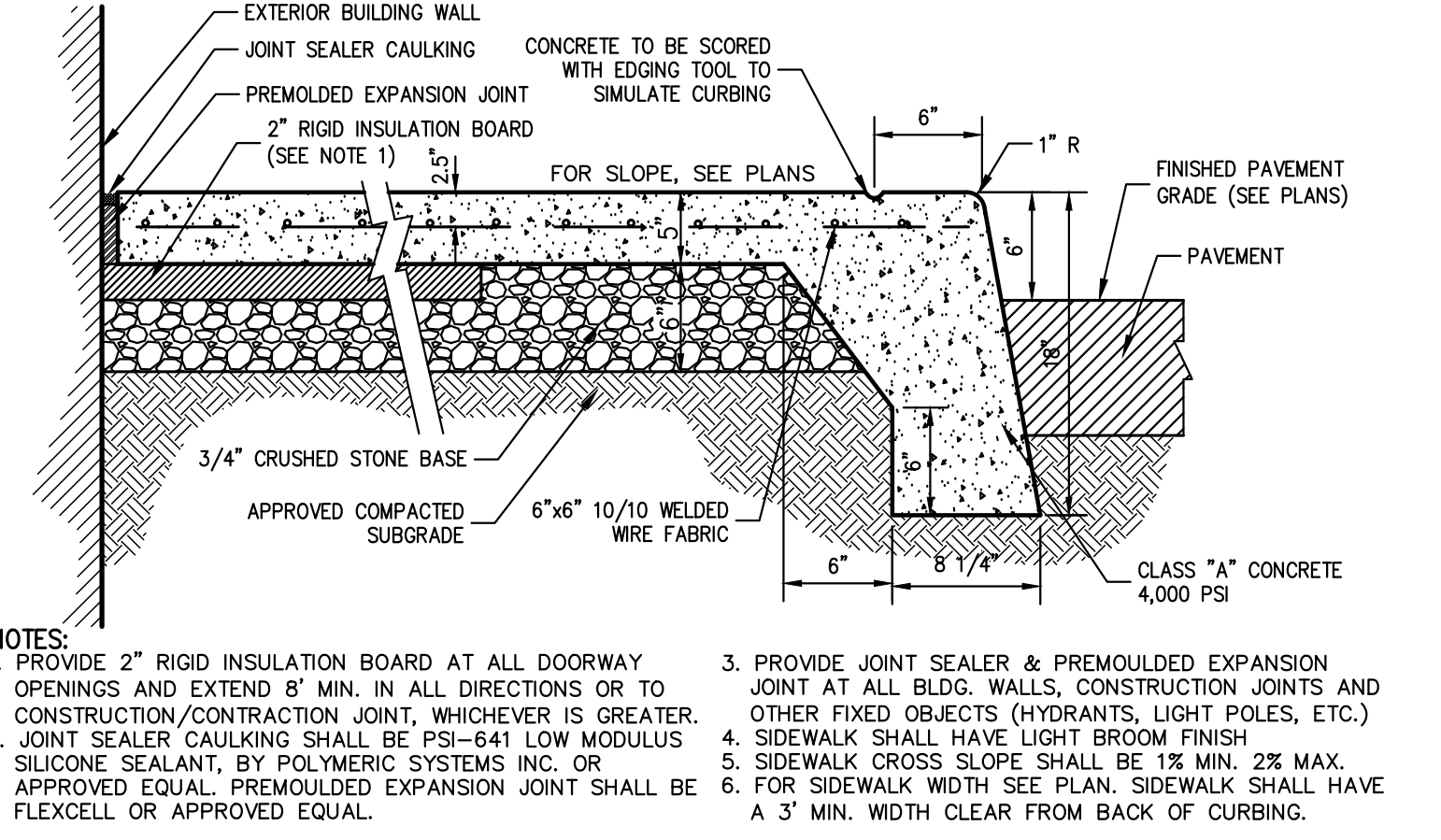
PAINTED ACCESSIBLE SYMBOL

28



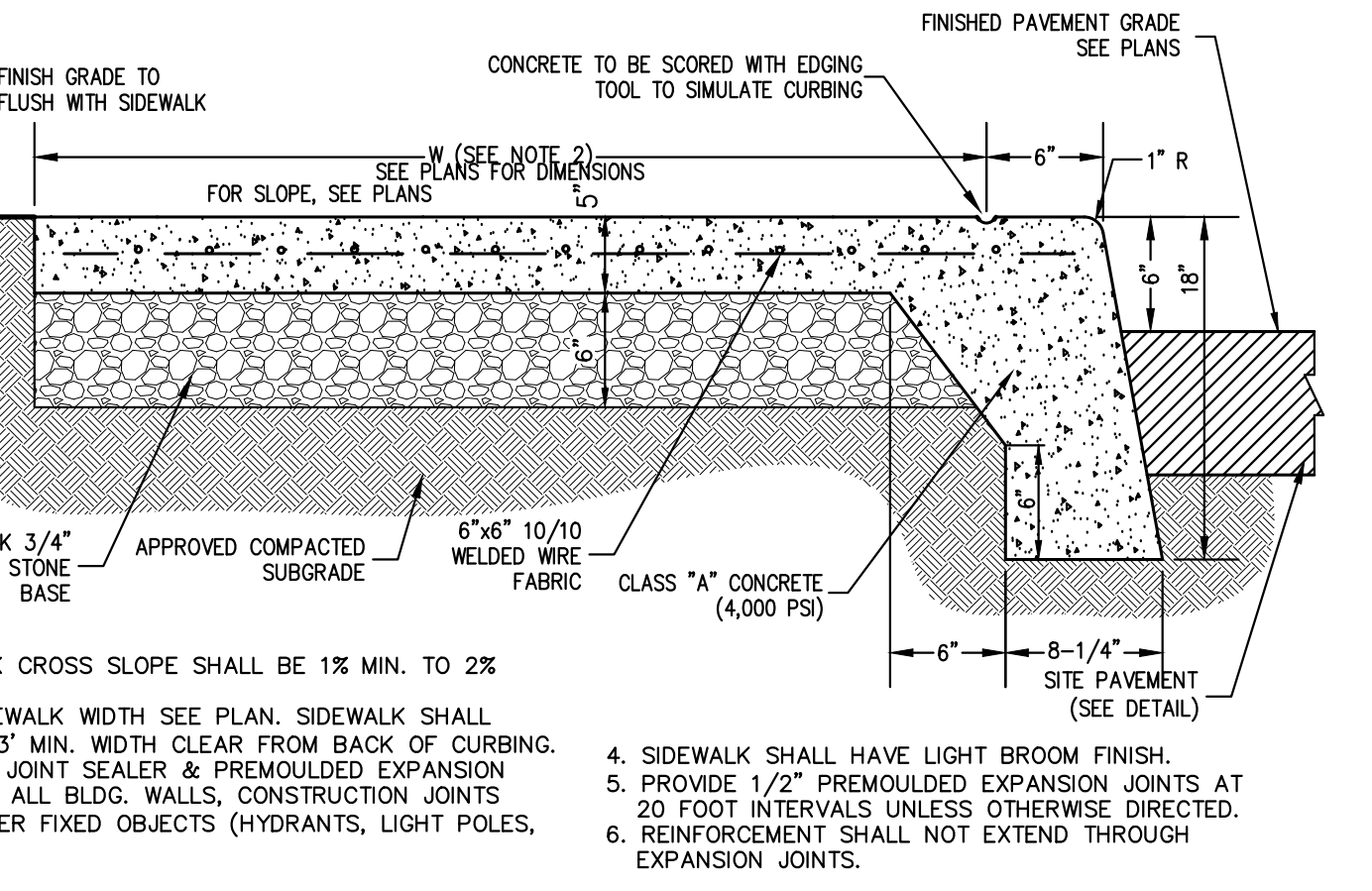
LIGHTING STANDARD FOUNDATION (ROUND)

33



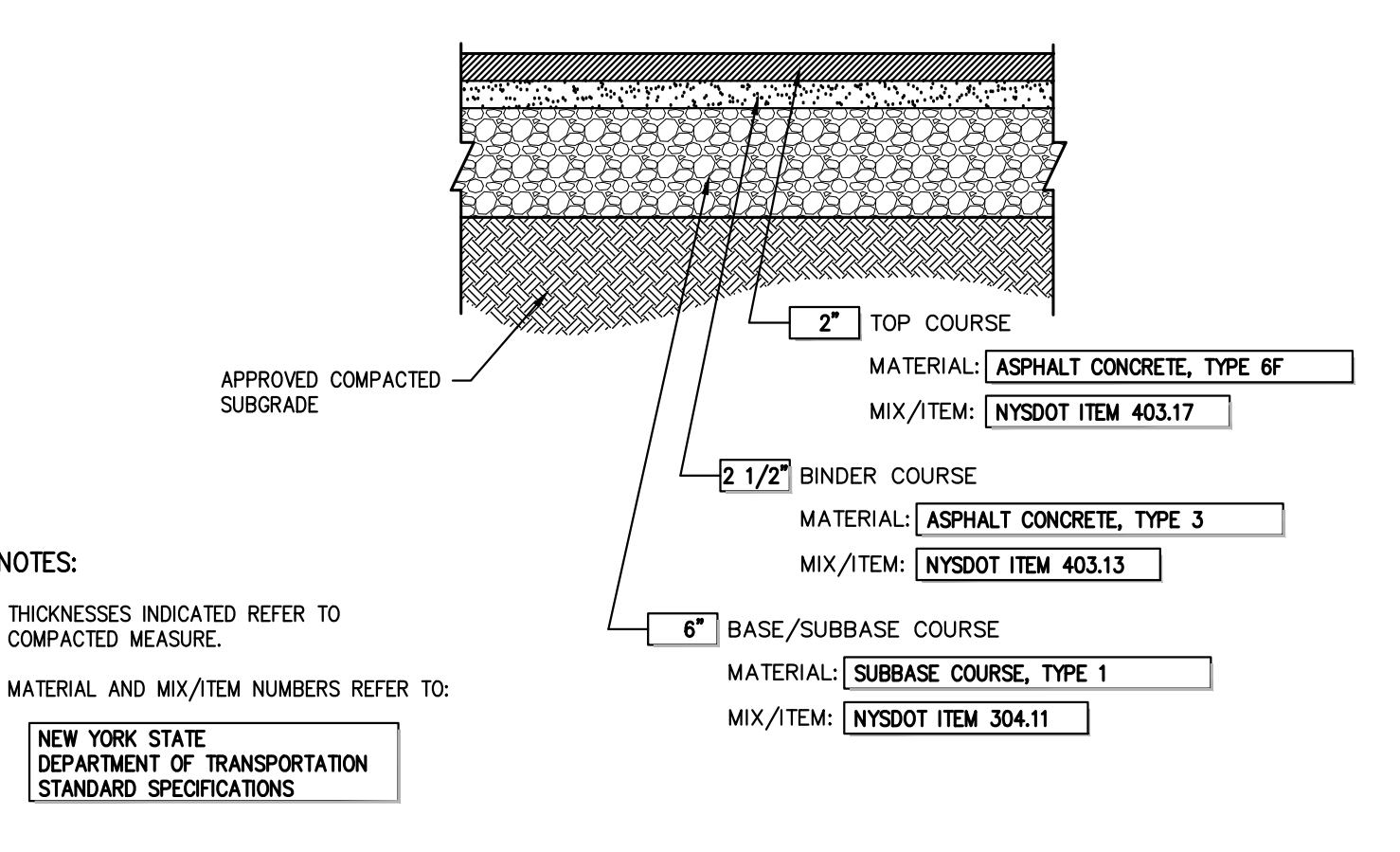
BUILDING PERIMETER MONOLITHIC CURB & SIDEWALK

29



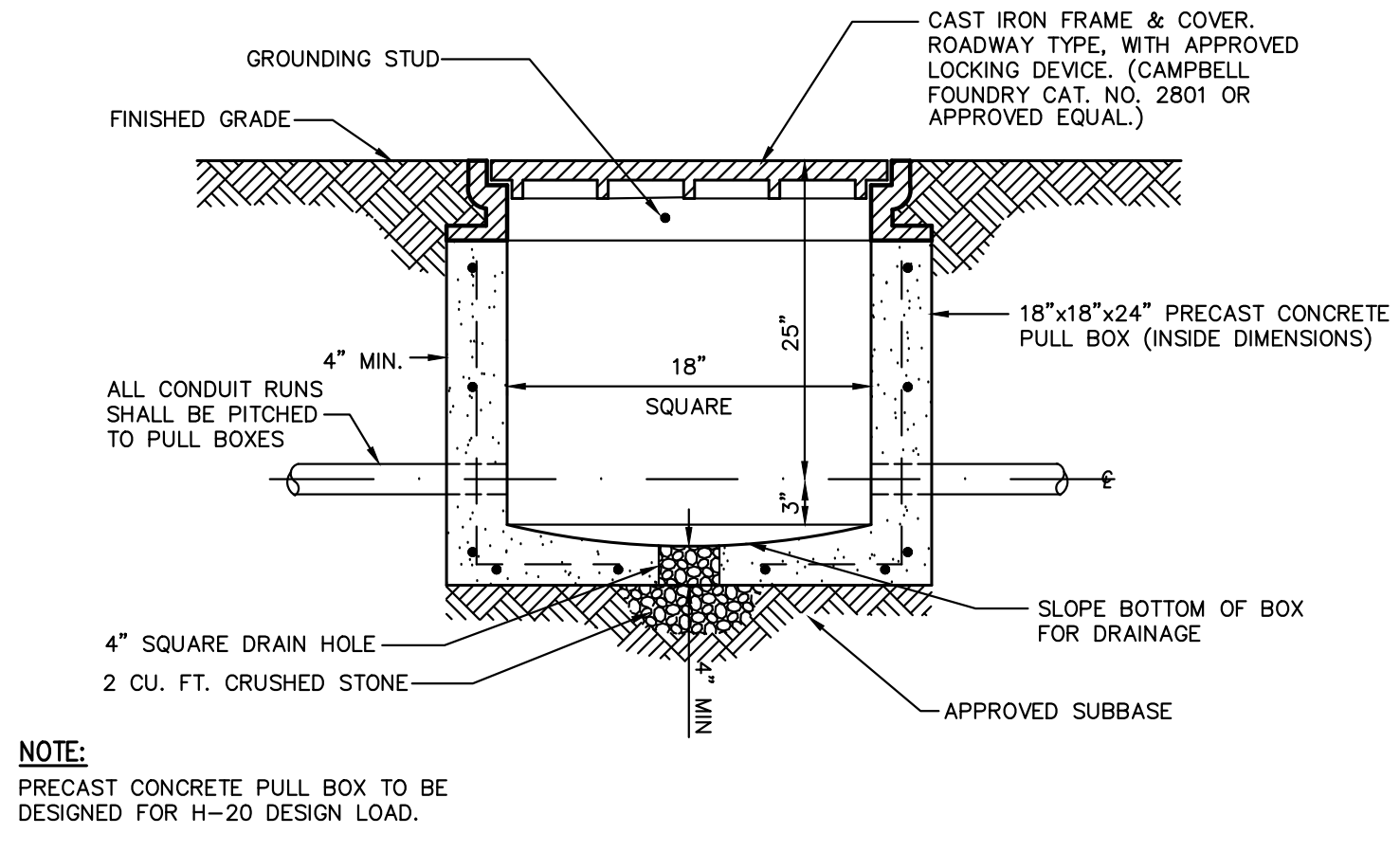
MONOLITHIC CONCRETE CURB AND SIDEWALK

30



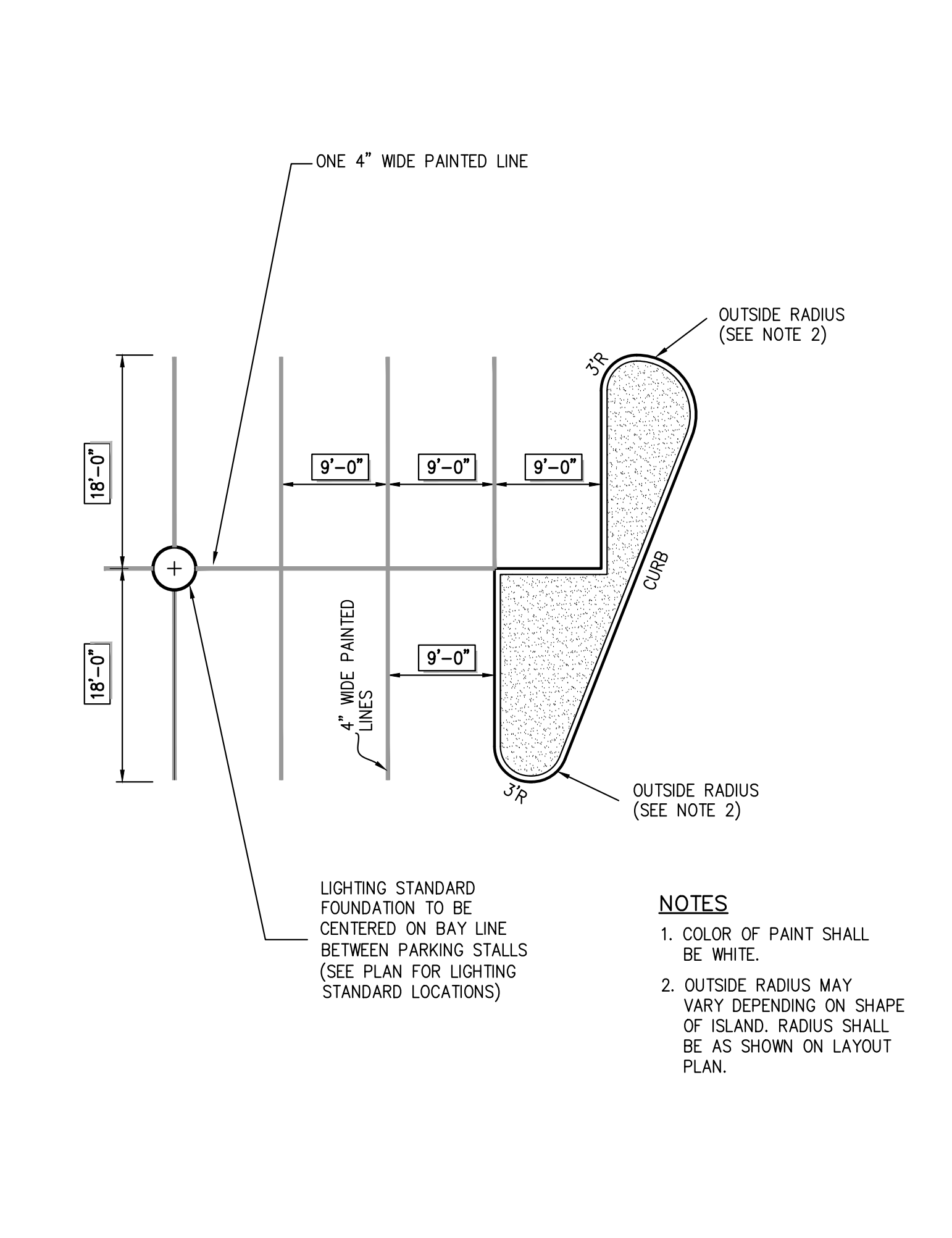
SITE PAVEMENT (LIGHT DUTY)

31



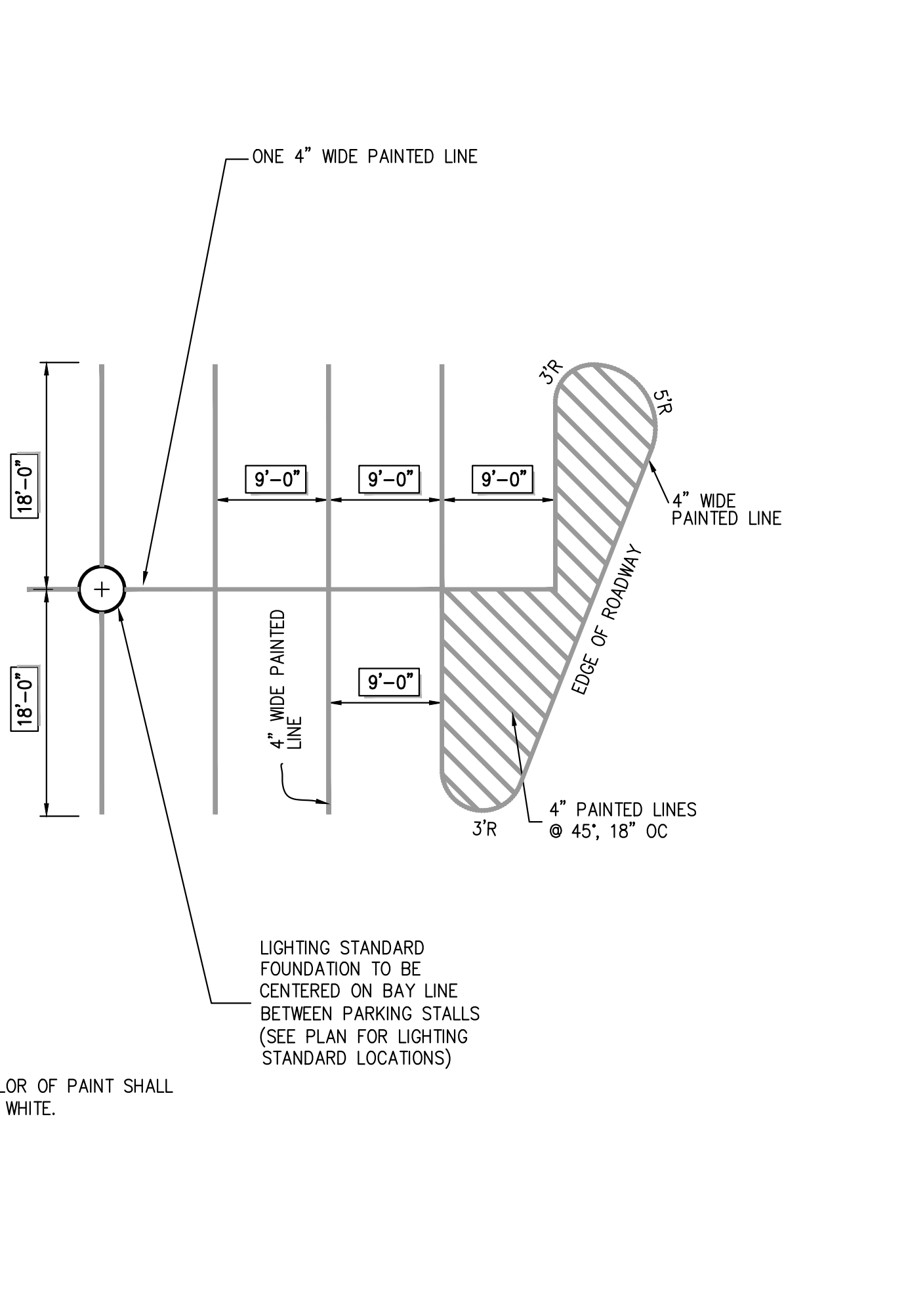
ELECTRICAL PULL BOX

32



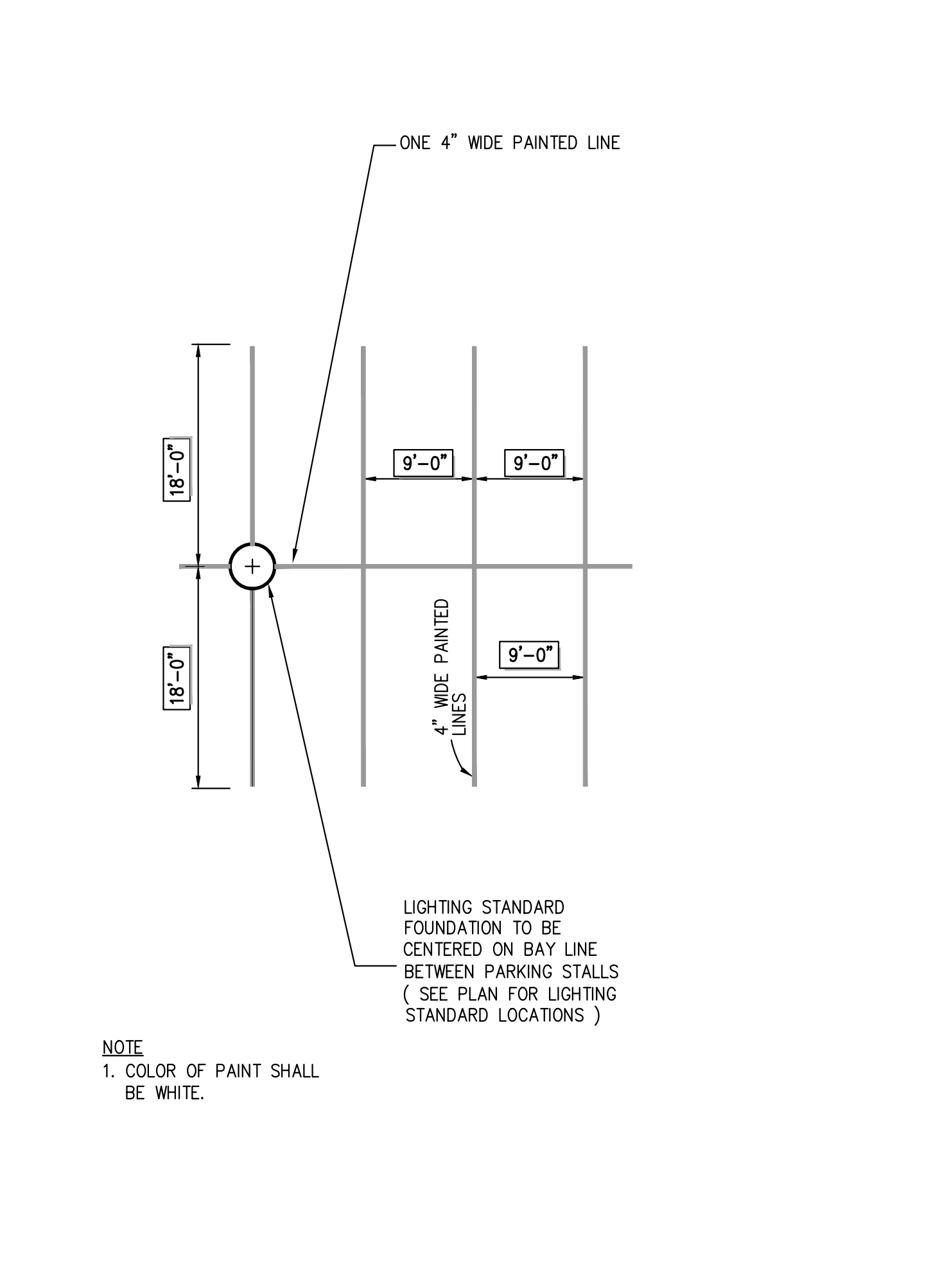
90° PARKING (SINGLE STRIPING-CURBED END)

34



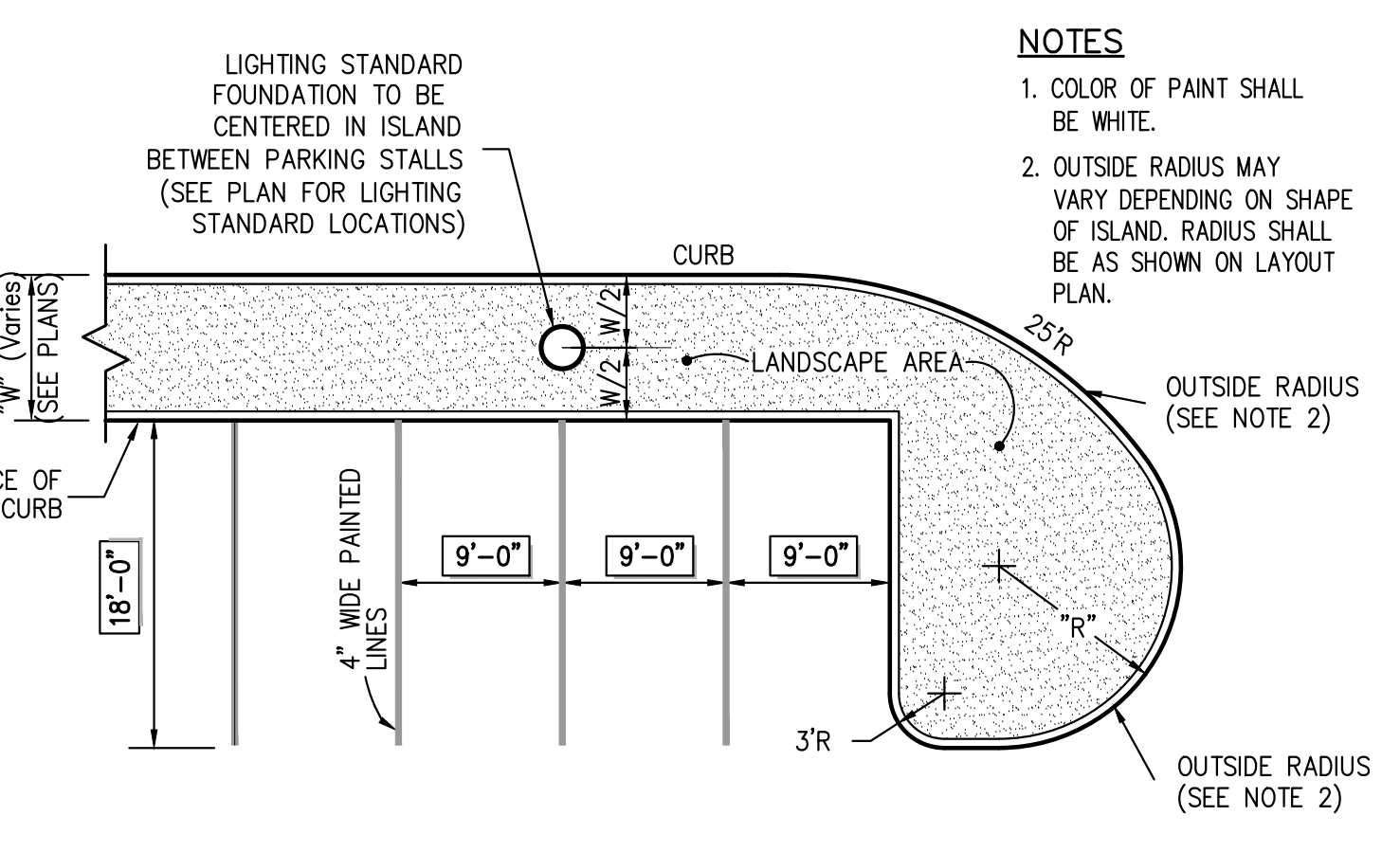
90° PARKING (SINGLE STRIPING-PAINTED END)

35



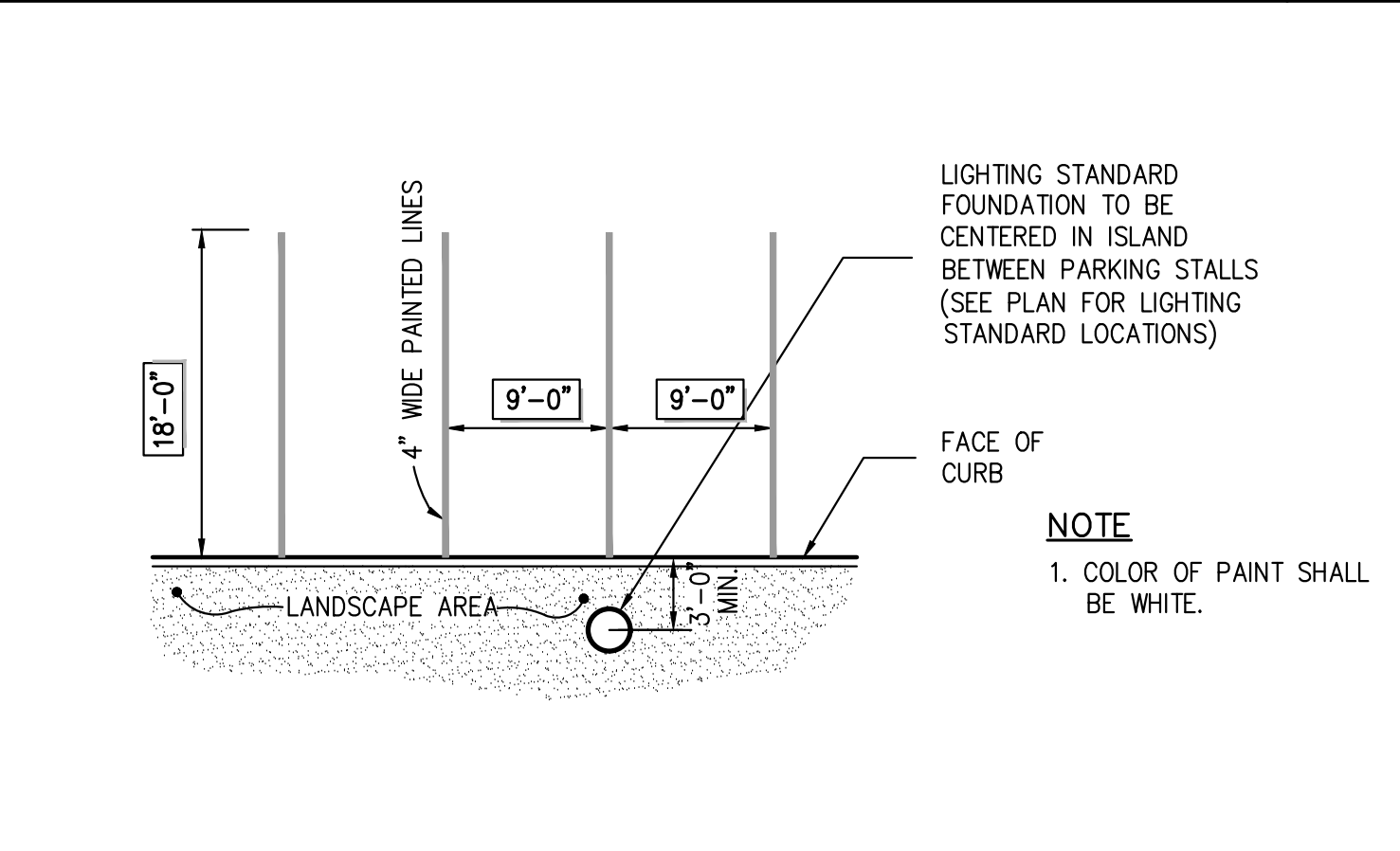
90° PARKING (SINGLE STRIPING - W/O CURBED ISLAND)

36



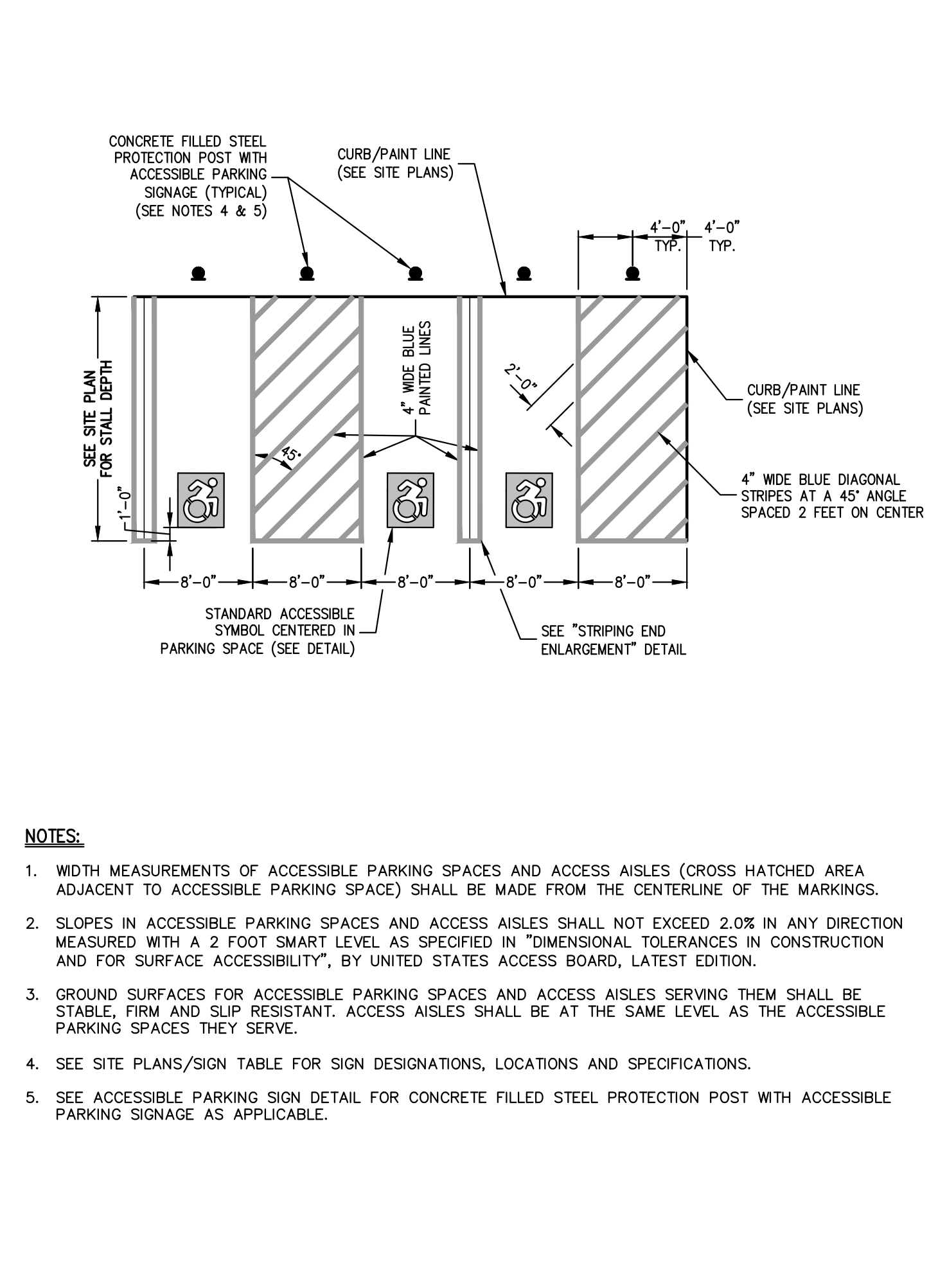
90° PARKING (SINGLE STRIPING - CURBED END)

37



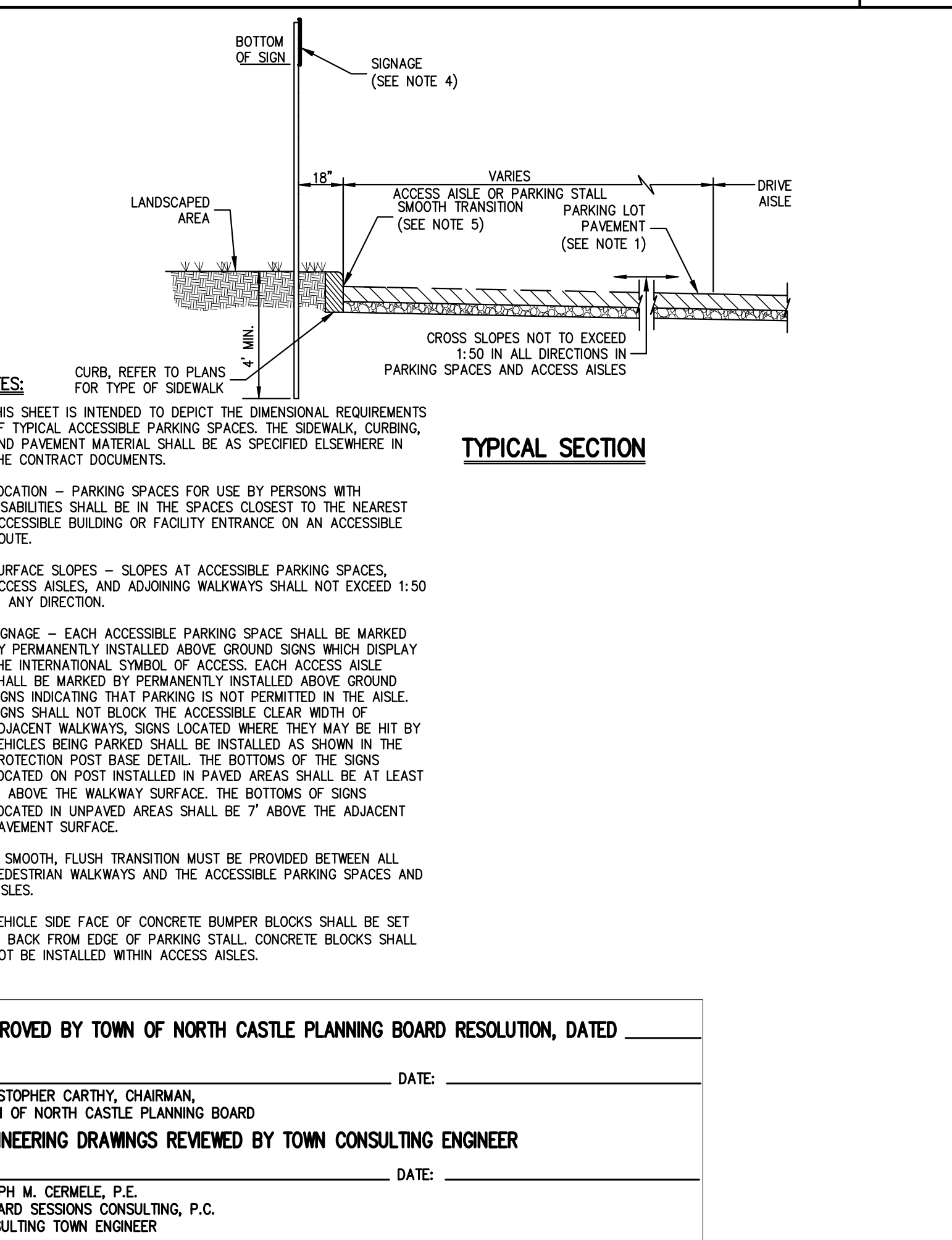
90° PARKING (SINGLE STRIPING - CURBED PERIMETER)

38



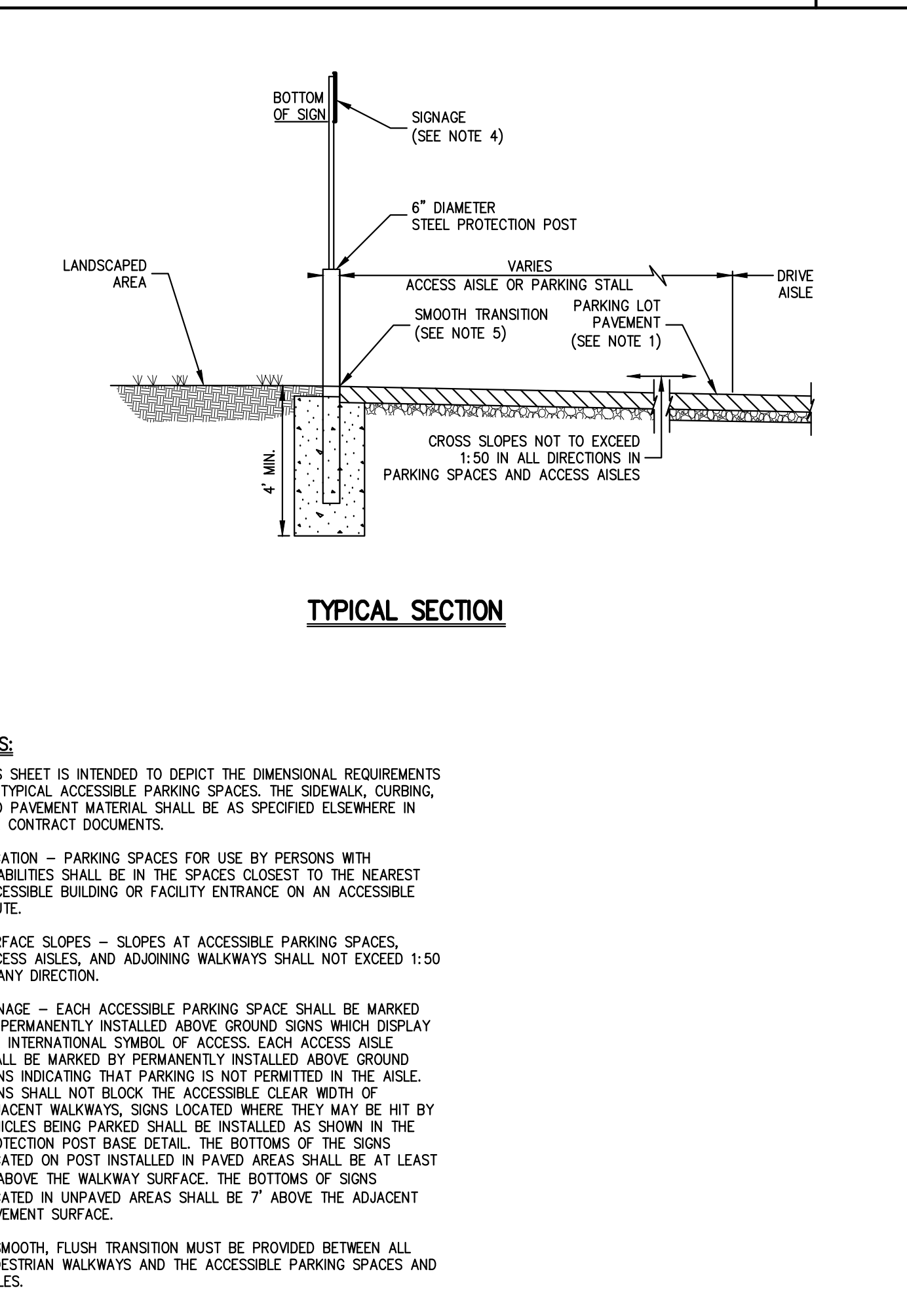
ACCESSIBLE PARKING (DOUBLE STRIPING - NEW YORK)

39



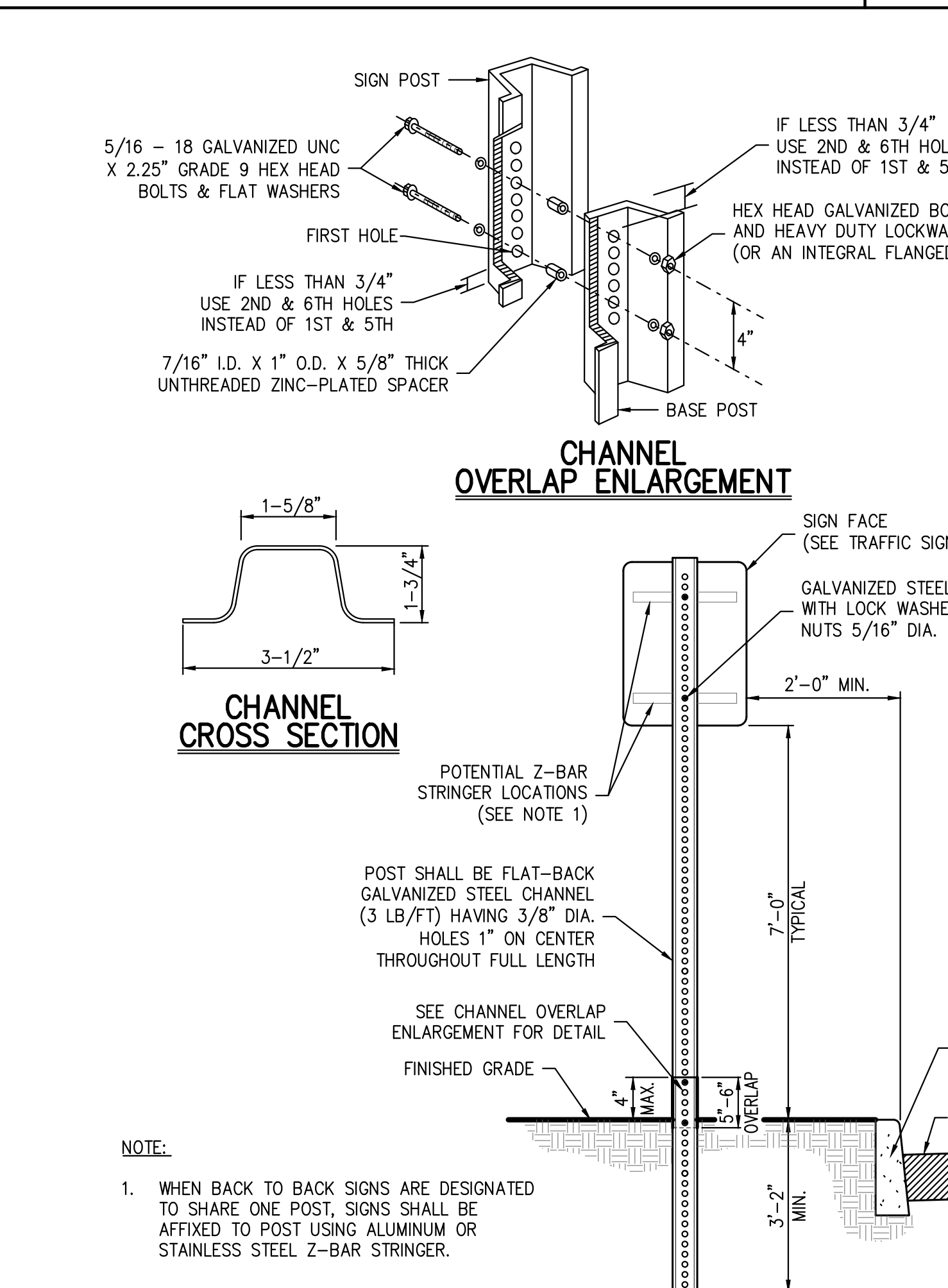
TYPICAL ACCESSIBLE PARKING STALL AND AISLE (TYPE A)

40



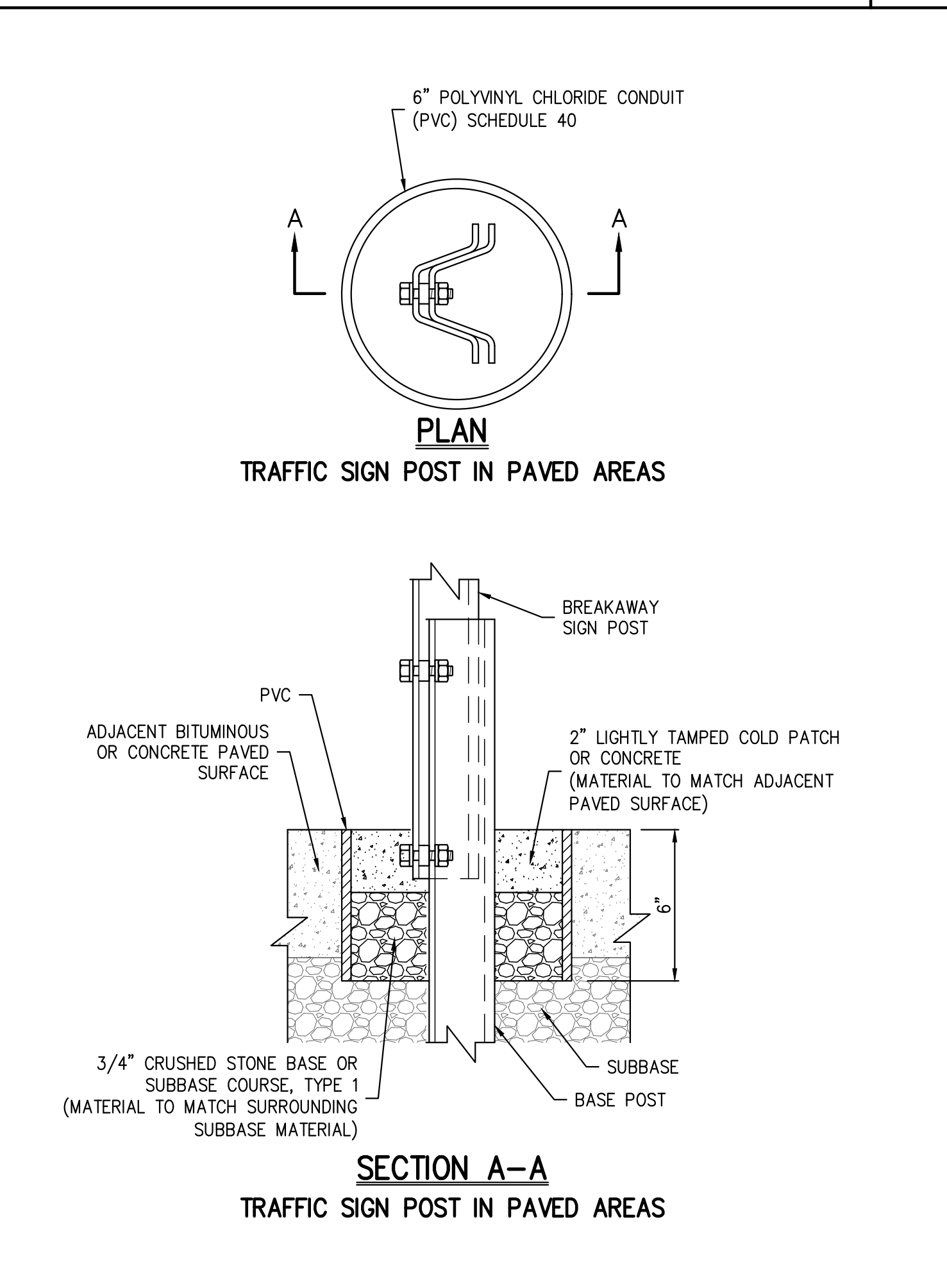
TYPICAL ACCESSIBLE PARKING STALL AND AISLE (TYPE C)

41



TRAFFIC SIGN POST (BREAKAWAY STEEL CHANNEL)

42



ACCESSIBLE PARKING SIGN DETAIL

43

| Rev | Date | By | Check | Comments |
|-----|------------|----|-------|---------------------------|
| 1 | 01/17/2021 | NC | NC | RESPONSE TO TOWN COMMENTS |
| 2 | 03/08/2021 | NC | NC | RESPONSE TO TOWN COMMENTS |
| 3 | 06/14/2021 | NC | NC | RESPONSE TO TOWN COMMENTS |
| 4 | 07/10/2022 | NC | NC | RESPONSE TO TOWN COMMENTS |

APPLICANT: SUMMIT CLUB PARTNERS, LLC
 566 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architects & Land Surveying, LLC
 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10504
 voice 914.233.5253 - fax 914.272.2702
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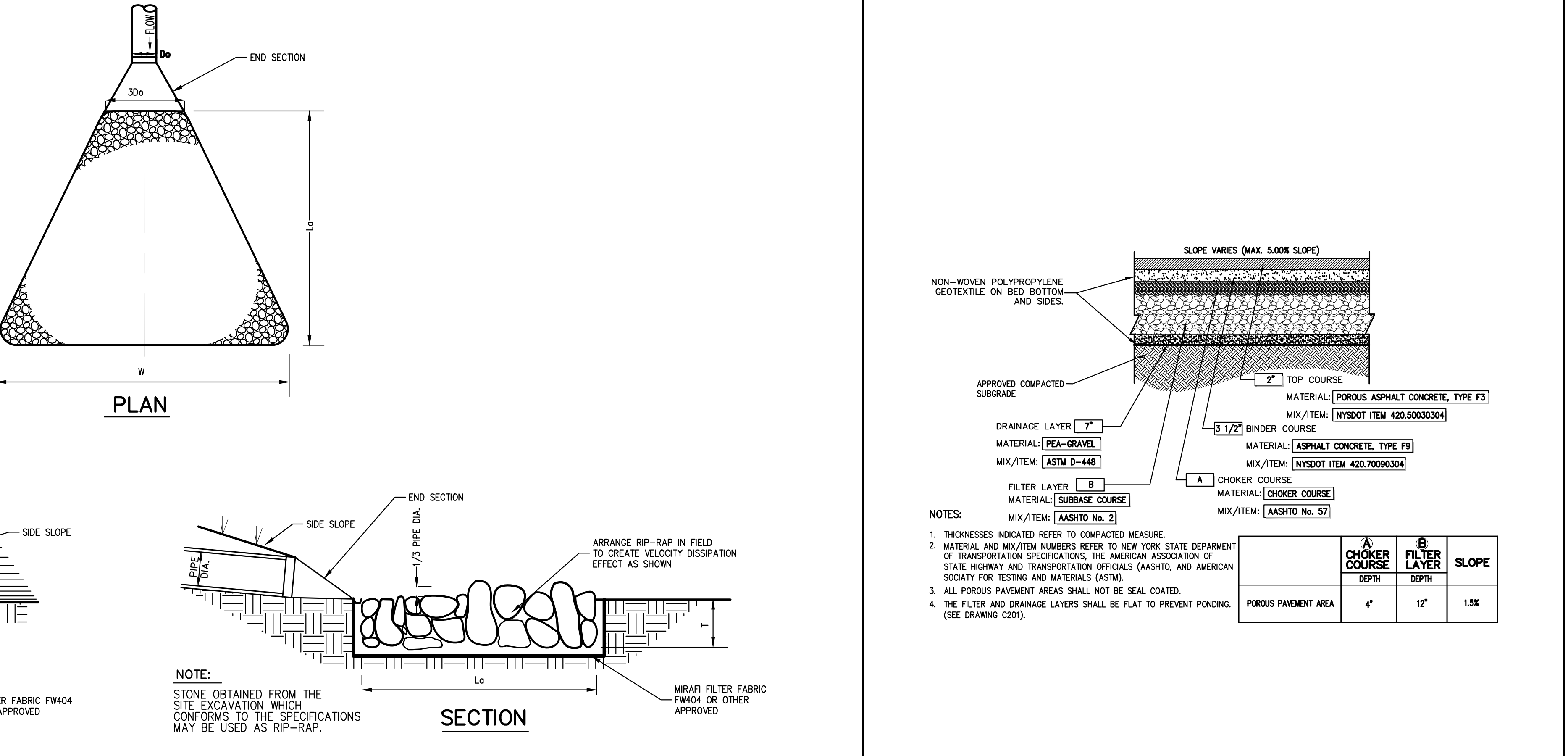
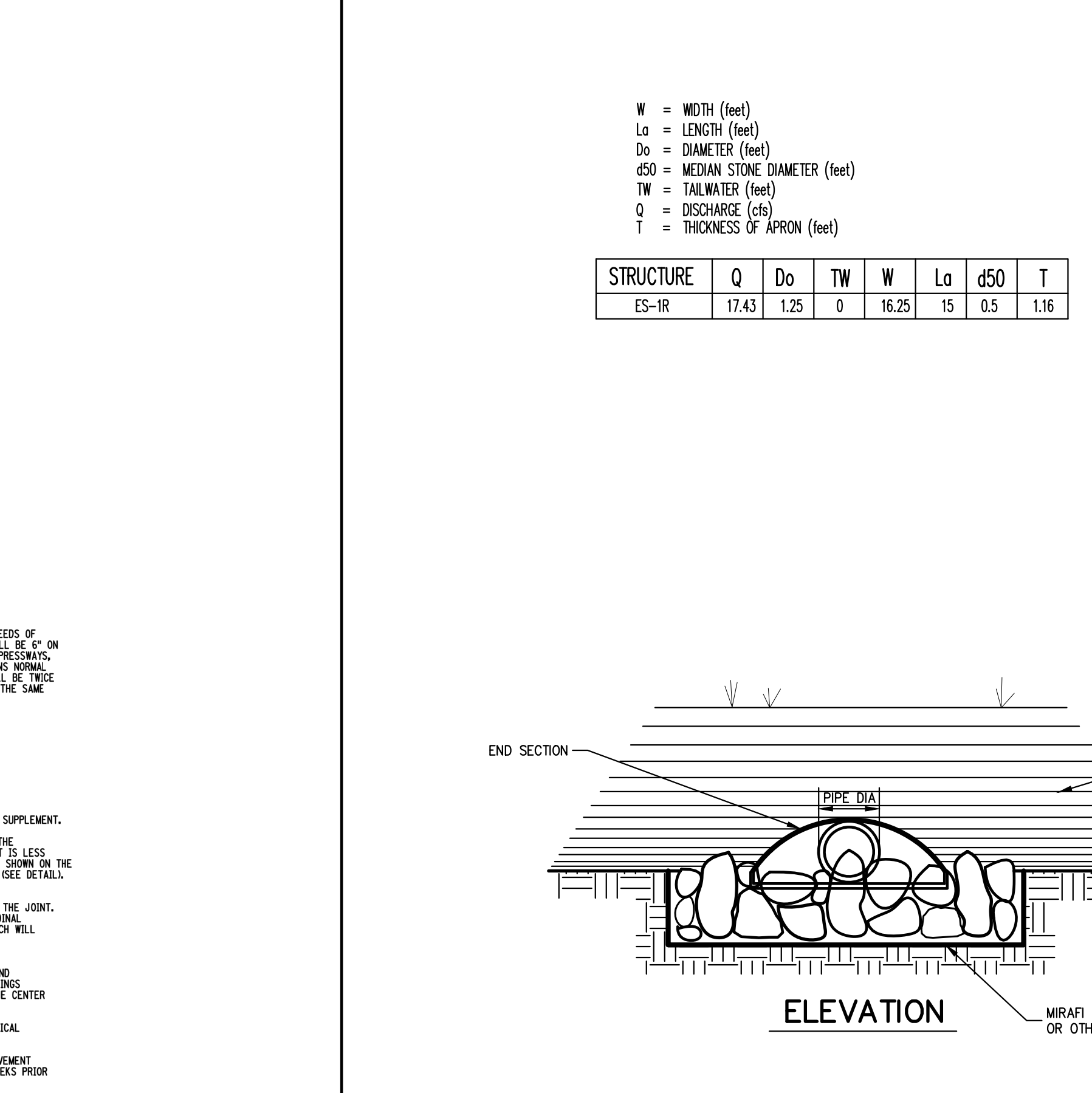
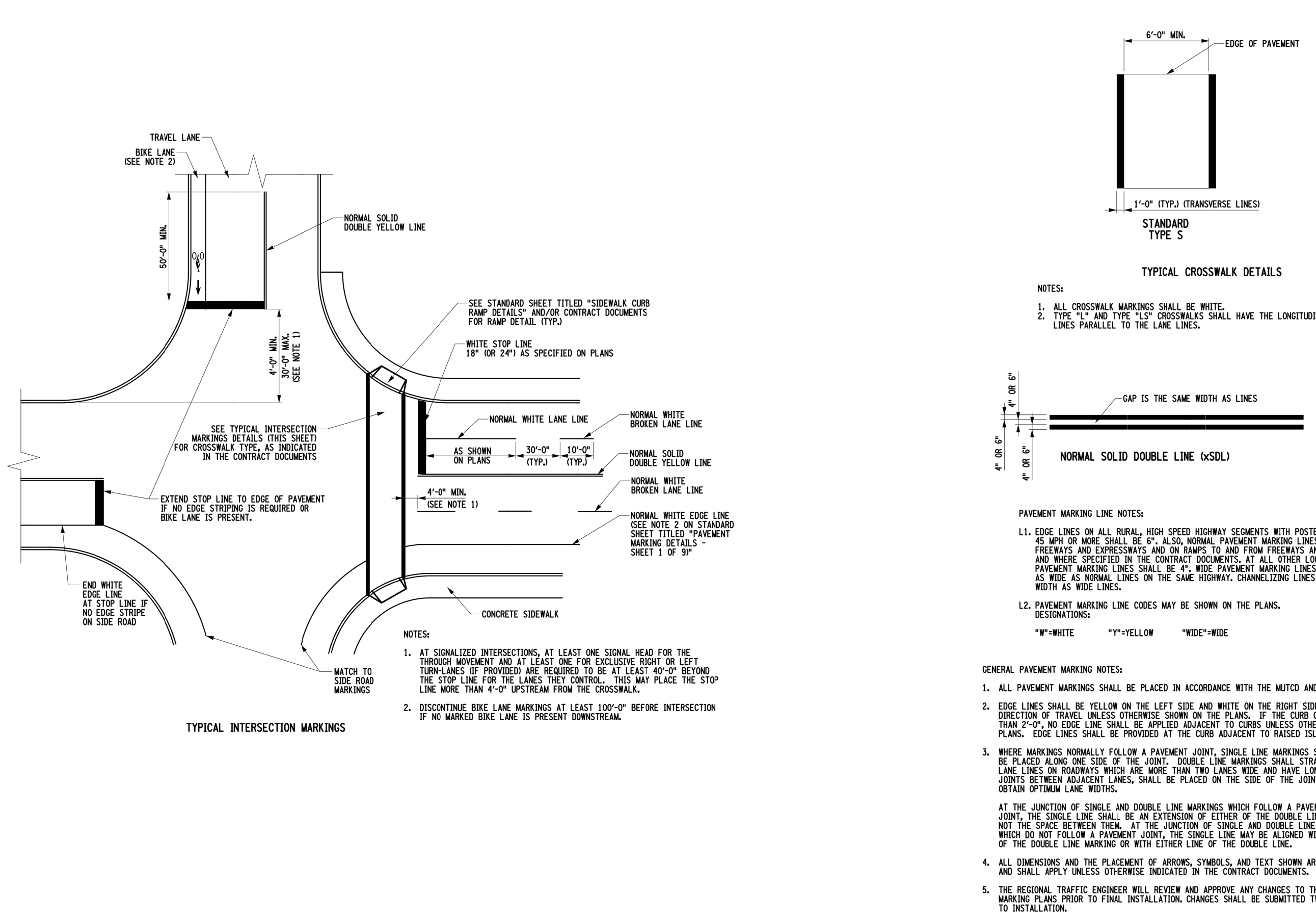
CONSTRUCTION DETAILS
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
 566 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

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| Drawn | NC | Approved | AG |
|-------------|--------------|----------|----|
| Scale | NOT TO SCALE | | |
| Date | 11/23/2020 | | |
| Project No. | 20101 | | |
| Sheet No. | DET-3 | | |

C-902

NOT FOR CONSTRUCTION



PAVEMENT MARKINGS

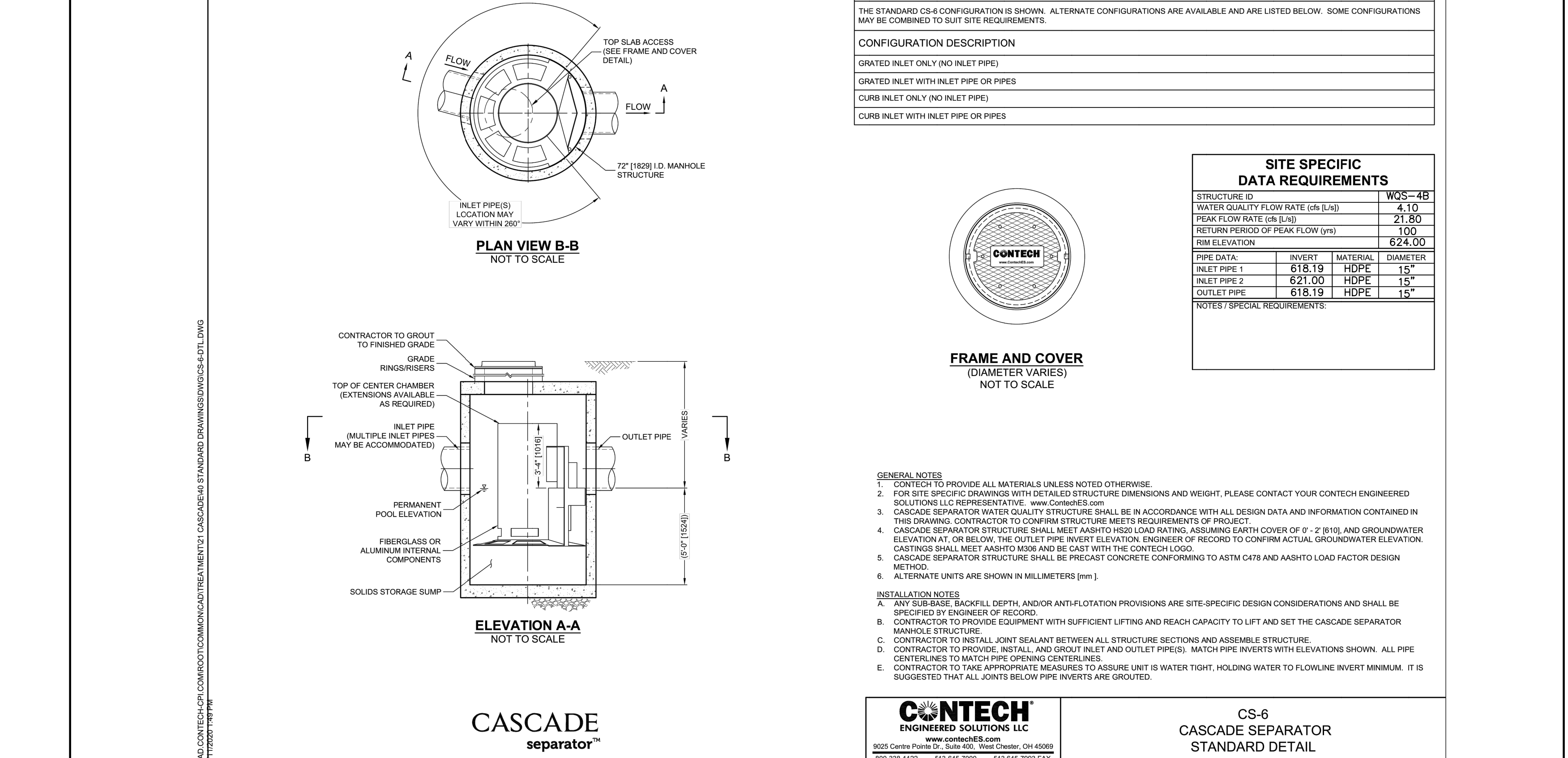
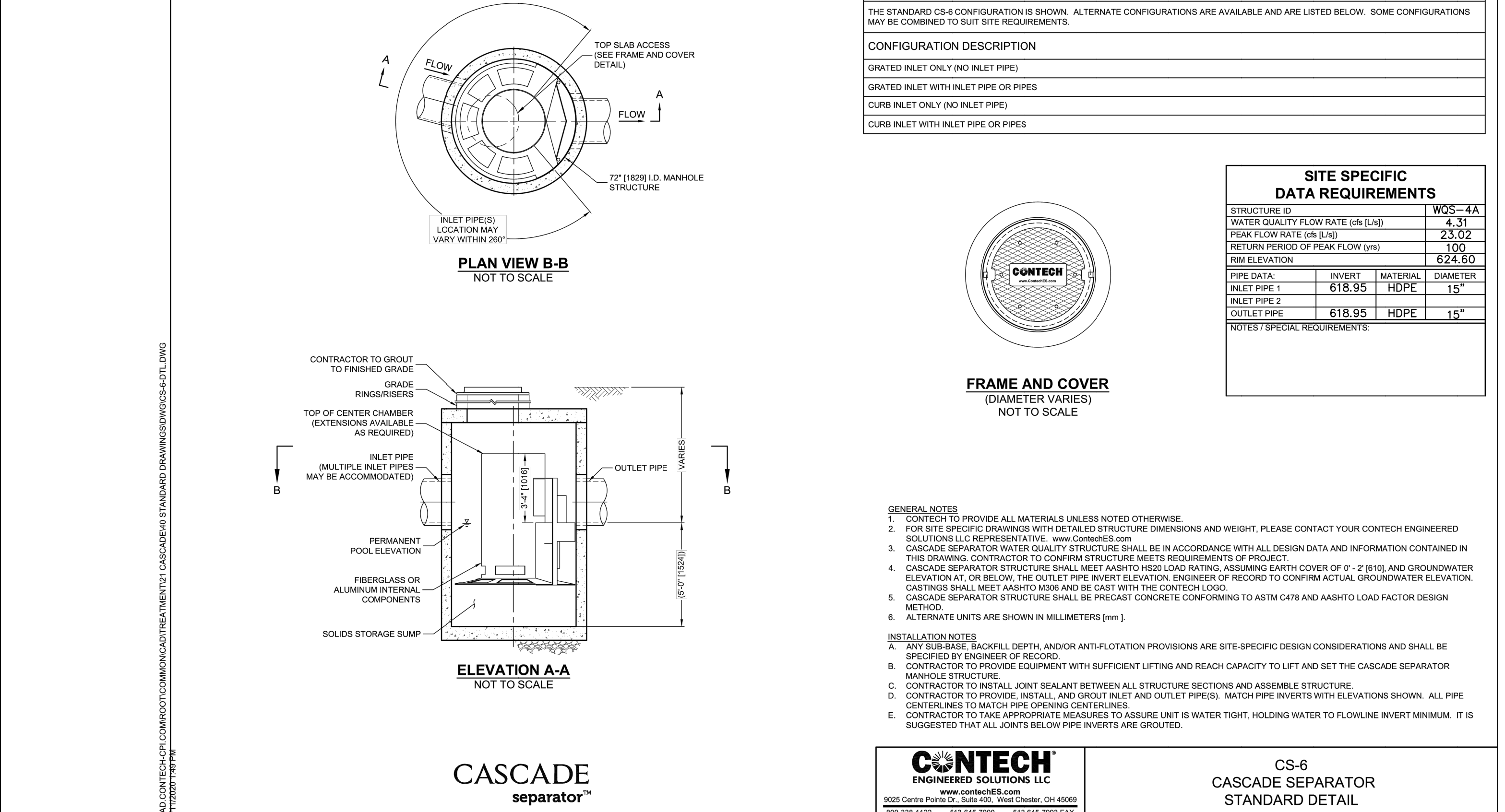
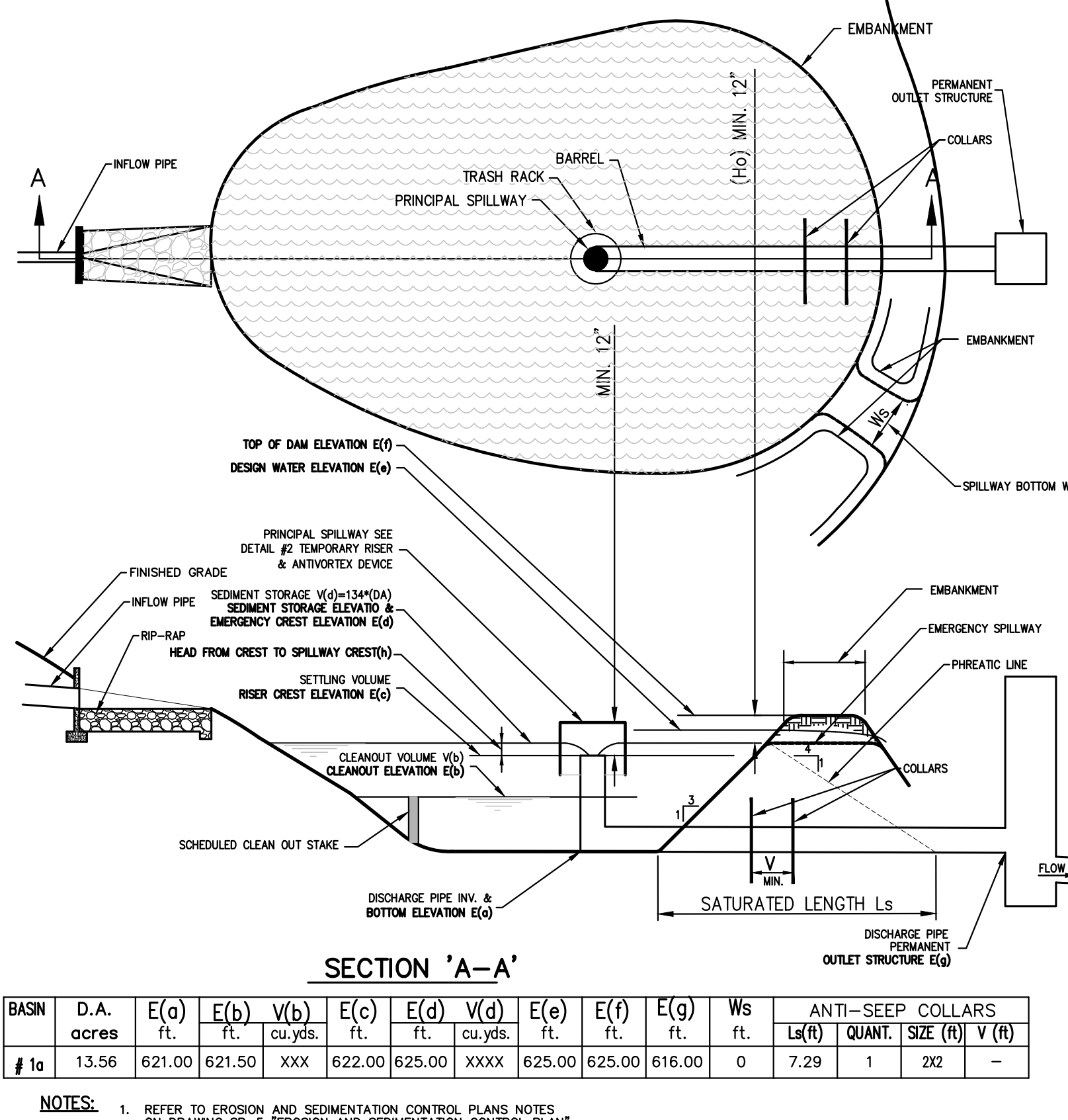
44

RIP-RAP APRON/ENERGY DISSIPATOR

45

POROUS PAVEMENT

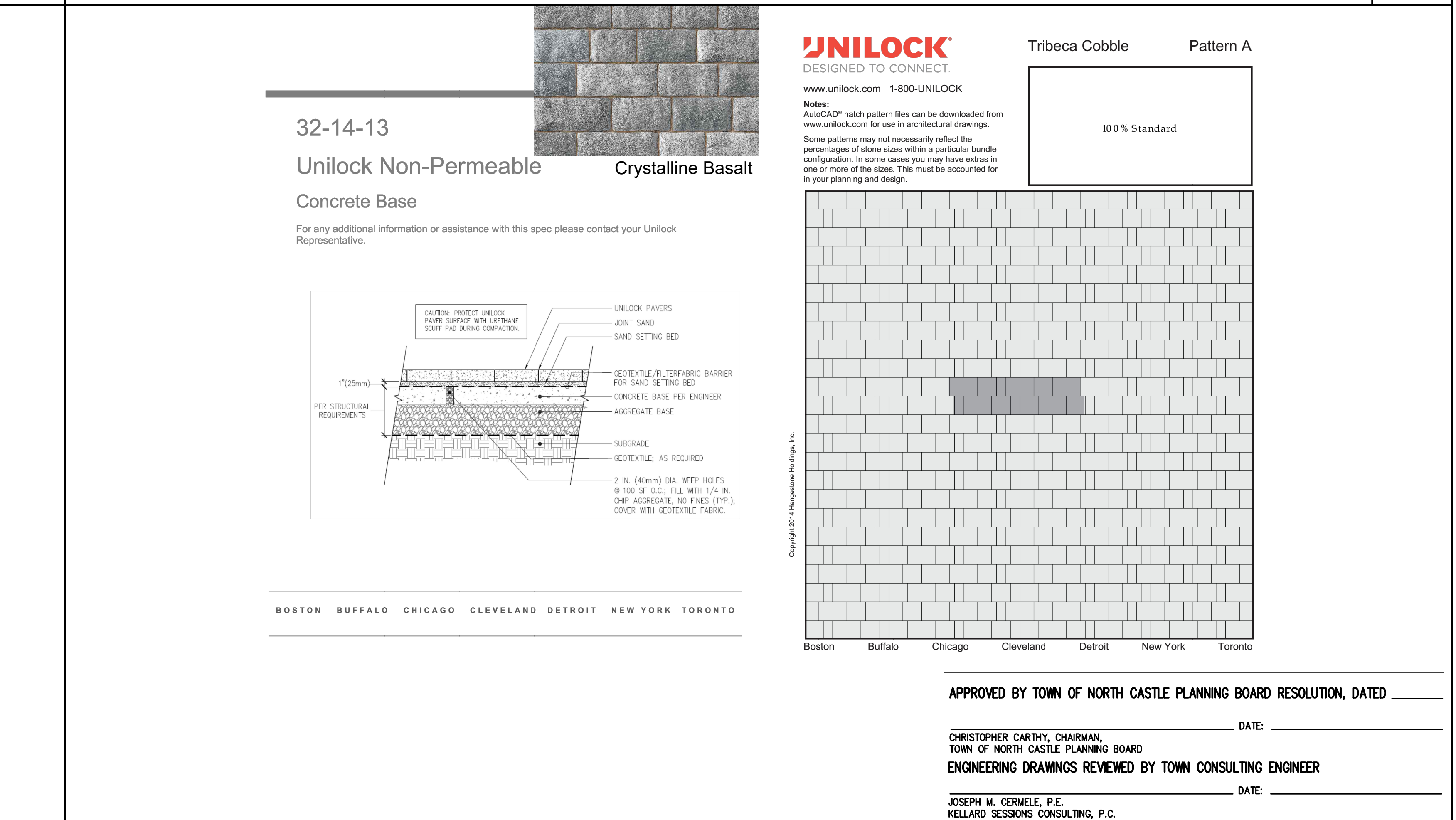
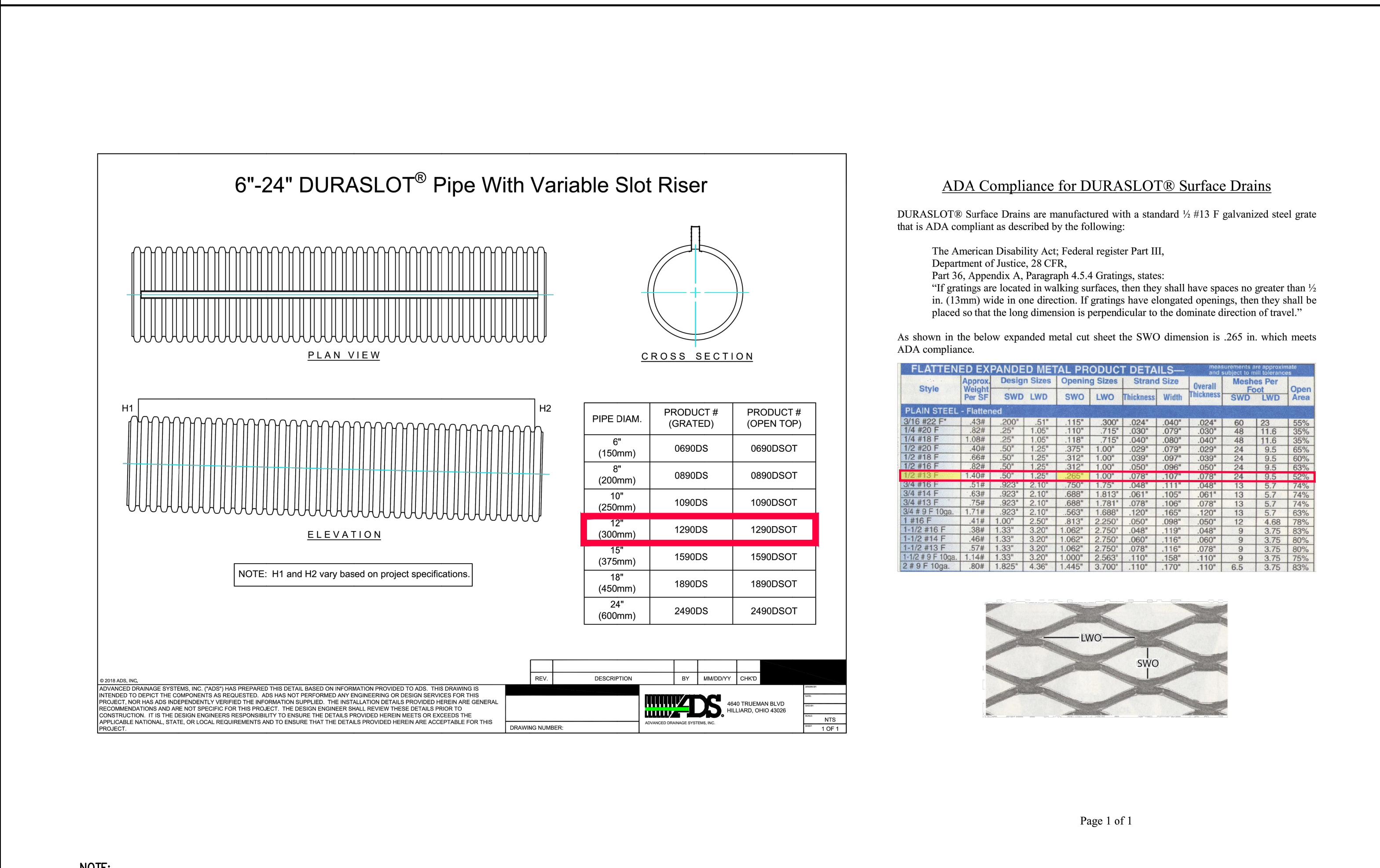
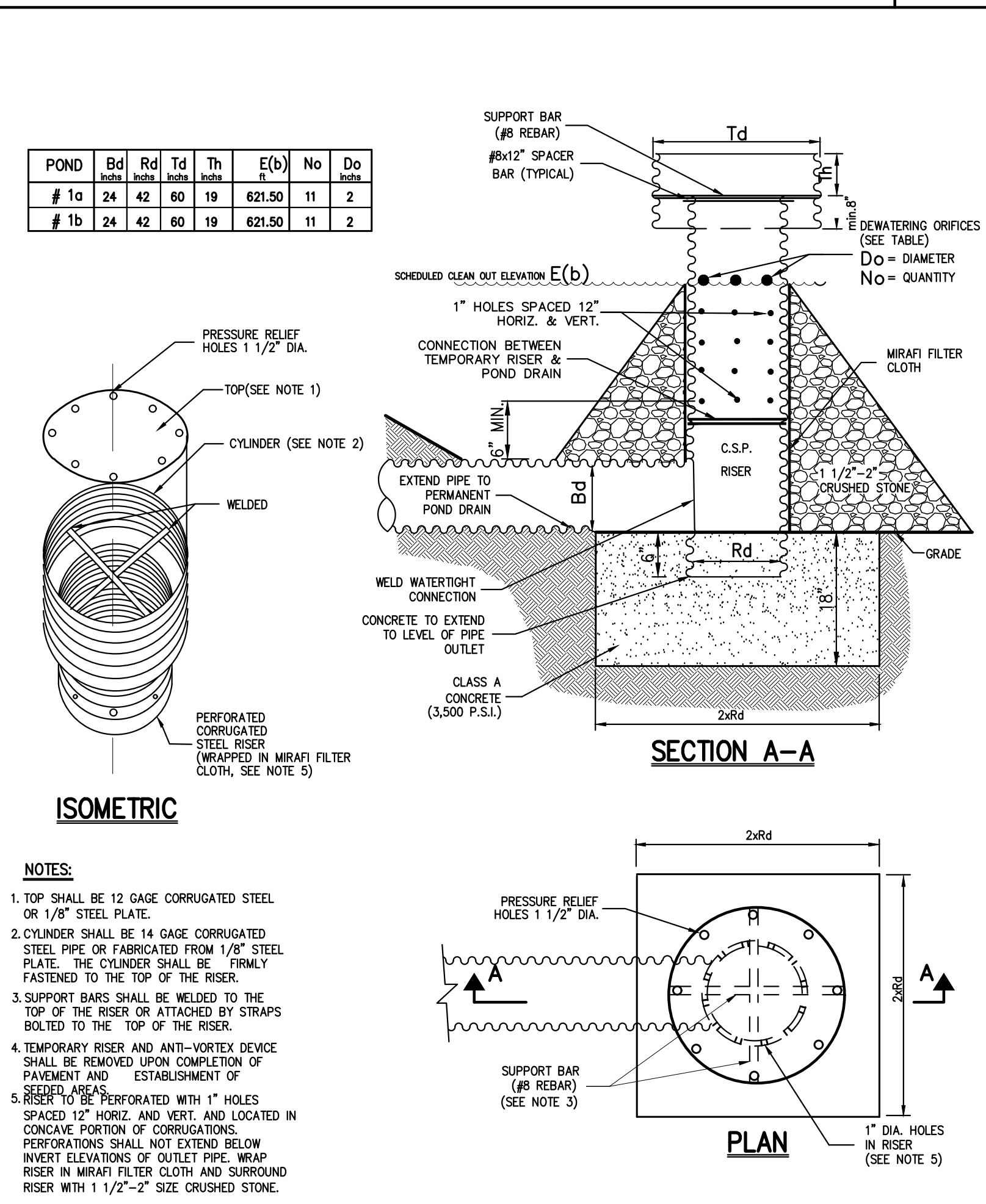
46



TEMPORARY SEDIMENT BASIN DETAIL

WQS-4A

WQS-4B



TEMPORARY RISER & ANTI-VORTEX DEVICE

12" DURASLOT PIPE WITH VARIABLE SLOT RISER WITH ADA COMPLIANT GRATE

DECORATIVE PAVER

APPLICANT: SUMMIT CLUB PARTNERS, LLC
PROJECT: 566 BEDFORD ROAD (NY-22) ARMONK, NY 10504

ARCHITECT: GRANOFF ARCHITECTS
 330 RAILROAD AVENUE GREENWICH, CT 06850

DATE: 01/07/2021
NO.: 1
REVISION: RESPONSE TO TOWN COMMENTS

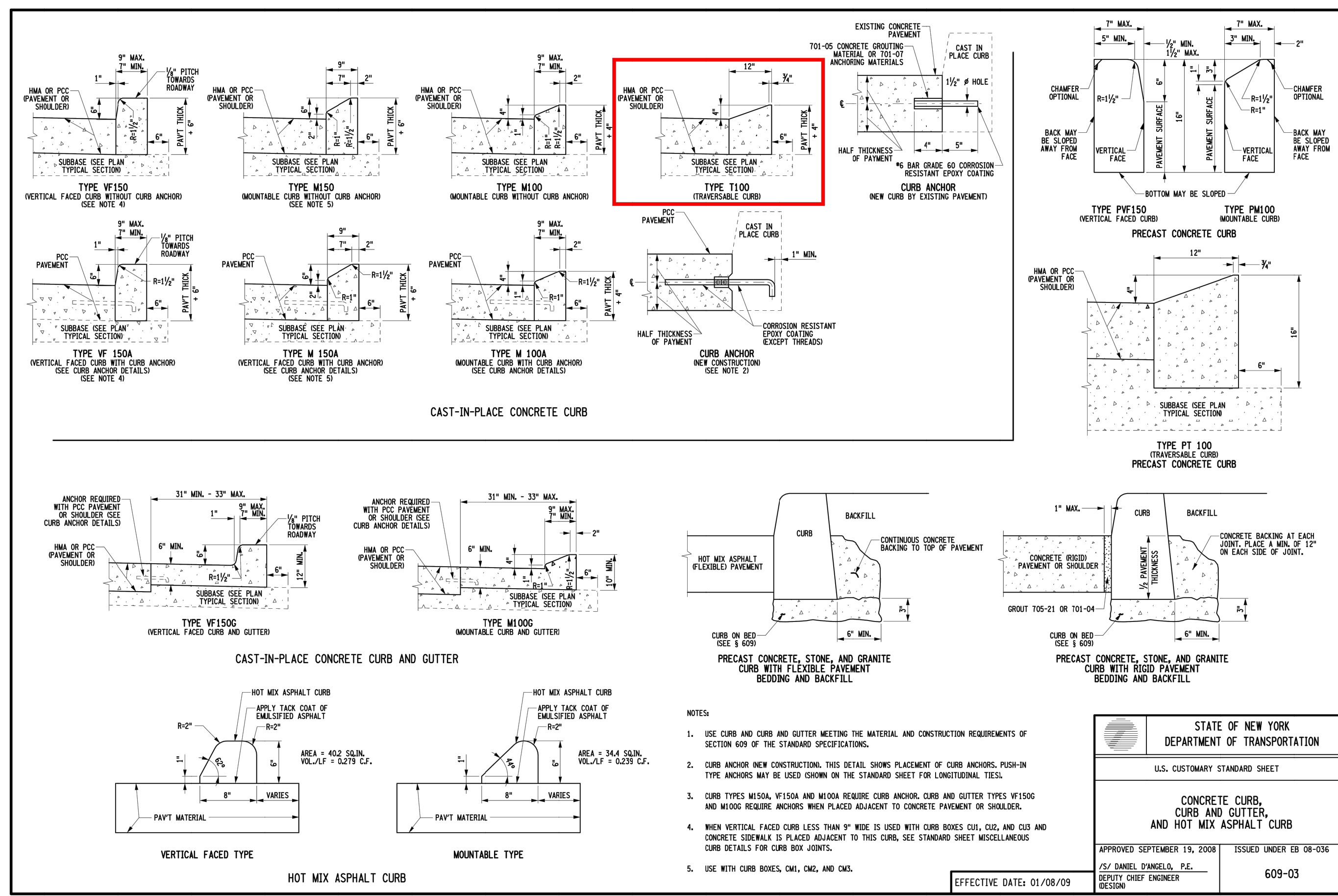
DATE: 03/08/2021
NO.: 2
REVISION: RESPONSE TO TOWN COMMENTS

DATE: 06/14/2021
NO.: 3
REVISION: RESPONSE TO TOWN COMMENTS

DATE: 07/20/2022
NO.: 4
REVISION: RESPONSE TO TOWN COMMENTS

Scale: NOT TO SCALE
Date: 11/23/2020
Project No.: 20101
Sheet No.: C-903

NOT FOR CONSTRUCTION

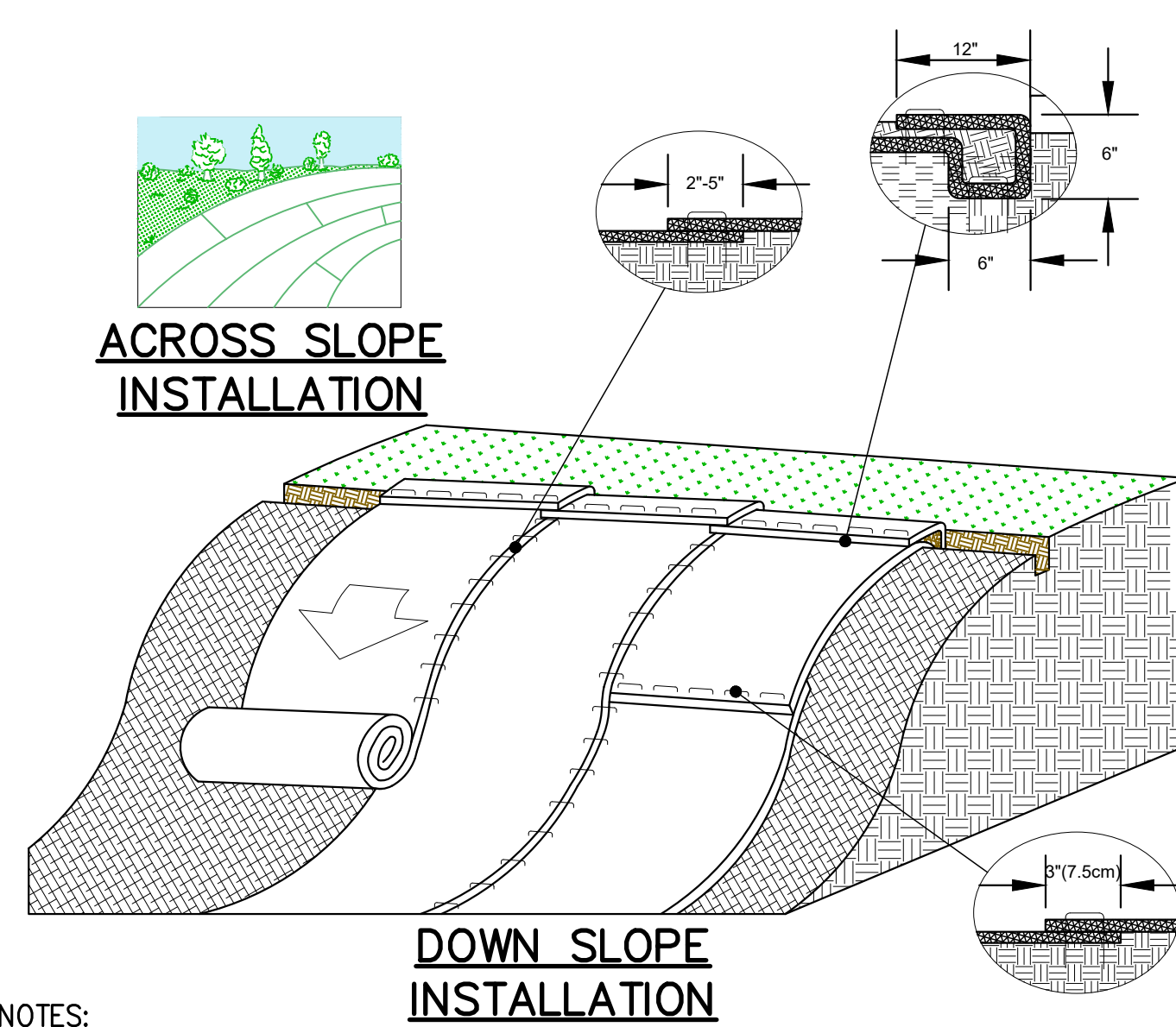


4" MOUNTABLE CONCRETE CURB

53

ROLLED EROSION CONTROL MATTING

54



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPs.
3. ROLL THE RECPs EITHER DOWN OR HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPs TYPE.
5. CONSECUTIVE RECPs SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPs WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.
7. MATERIAL FOR THE RECP SHALL BE EAST COAST EROSION CONTROL ECS-2B BIODEGRADABLE DOUBLE NET STRAW OR APPROVED EQUAL.

CONSTRUCTION DETAILS AT ARMONK (RESIDENTIAL PHASE)

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

CHRISTOPHER CARTHY, CHAIRMAN,
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING, P.C.
CONSULTING TOWN ENGINEER

CONSTRUCTION DETAILS
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
566 & 570 BEDFORD ROAD, (NY-22)
ARMONK, NY 10504

JMC
JMC Planning, Engineering, Landscape
Architecture & Land Surveying, LLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD - ARMONK, NY 10504
VOICE: 914.273.5243 • FAX: 914.273.2102
www.jmcplc.com

APPLICANT/OWNER:
SUMMIT CLUB PARTNERS, LLC
566 BEDFORD ROAD, (NY-22)
ARMONK, NY 10504

ARCHITECT:
GRANOFF ARCHITECTS
330 RAILROAD AVENUE
GREENWICH, CT 06830

| | | | |
|-----|-----------|------|----|
| No. | Revisions | Date | By |
| | | | |
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Scale: NOT TO SCALE
Date: 01/10/2022
Project No: 20101
Sheet No: DET-5
Drawing No: C-904

NOTES:

1. IN THE GCFO DISTRICT, THE LOT, DIMENSIONAL, AND PARKING REQUIREMENTS FOR A GOLF COURSE COMMUNITY IN THIS SECTION SHALL SUPERSEDE THE SCHEDULE OF RESIDENCE DISTRICT REGULATIONS (§ 355-21 OF THIS CHAPTER). LOT SIZE, LOT CONFIGURATION AND OTHER LOT DIMENSIONAL REQUIREMENTS WITHIN A GCFO DISTRICT SHALL BE DETERMINED BY THE PLANNING BOARD IN CONJUNCTION WITH SUBDIVISION APPROVAL. LOT SIZE, LOT CONFIGURATION AND OTHER LOT DIMENSIONAL REQUIREMENTS OF LOTS WITHIN A GCFO DISTRICT SHALL BE BASED UPON THE PLANNING BOARD'S CONSIDERATION OF THE CHARACTER OF THE NEIGHBORHOOD IN WHICH THE GCFO DISTRICT WILL BE LOCATED, THE GCFO DISTRICT'S RELATIONSHIP TO ADJOINING DISTRICTS, PROPERTIES AND LAND USES; THE GCFO DISTRICT'S TOPOGRAPHY; AND SUCH OTHER FACTORS THE PLANNING BOARD MAY DETERMINE TO BE APPROPRIATE. THE LOTS AND/OR PARCELS THAT TOGETHER COMPOSE A GOLF COURSE COMMUNITY SITE ARE NOT REQUIRED TO BE CONTIGUOUS, PROVIDED THAT EACH SUCH LOT AND/OR PARCEL, ADJOINING THE AFFILIATED MEMBERSHIP CLUB, ALL LOT, DIMENSIONAL, AND PARKING REQUIREMENTS IN THIS SECTION, INCLUDING BUT NOT LIMITED TO MAXIMUM DENSITY, MAXIMUM BUILDING COVERAGE, MINIMUM YARDS AND REQUIRED OFF-STREET PARKING, SHALL APPLY TO THE LAND AREA IN THE GCFO DISTRICT AS A WHOLE. NOTWITHSTANDING THAT THE GOLF COURSE COMMUNITY SITE MAY BE COMPOSED OF MORE THAN ONE LOT AND/OR PARCEL, OR THAT THE SITE MAY FROM TIME TO TIME BE SUBDIVIDED OR RESUBDIVIDED, AND ALL DETERMINATIONS AND CALCULATIONS RELATING TO SUCH REQUIREMENTS SHALL BE MADE WITH REFERENCE TO THE BOUNDARIES OF THE ENTIRE LAND AREA IN THE GCFO DISTRICT AND AS THOUGH SUCH AREA IS A SINGLE LOT (AS DEFINED IN § 355-4 OF THIS CHAPTER), EVEN THOUGH IT IS OR WILL BE COMPRISED OF MORE THAN ONE LOT AND/OR PARCEL.

2. THE MAXIMUM BUILDING HEIGHT SHALL BE THREE STOREYS AND 39 1/2 FEET TO THE MEAN LEVEL OF THE PRIMARY ROOF, MEASURED FROM THE LEVEL OF THE FINISHED GRADE AT THE MAIN ENTRY TO THE BUILDING.

3. RESIDENTIAL PARKING CALCULATIONS
MARKET-RATE DWELLING UNITS REQUIREMENT: "OTHER MULTIFAMILY DWELLING UNITS": 2 FOR EACH DWELLING UNIT, PLUS 1/4 FOR EACH BEDROOM IN EXCESS OF 2, PLUS 10X VISITOR PARKING.

66 TOTAL MARKET-RATE DWELLING UNITS: (46) 2-BEDROOM UNITS, (16) 3-BEDROOM UNITS, (2) 4-BEDROOM UNITS
66 (DWELLING UNITS) X 2 = 132 PARKING SPACES
16 (3-BEDROOM UNITS) X 5 = 80 PARKING SPACES
2 (4-BEDROOM UNITS) X 1 = 2 PARKING SPACES
10X VISITOR PARKING: 142 X 10 = 142 (1X) PARKING SPACES

TOTAL REQUIRED PARKING FOR MARKET-RATE UNITS: 157 PARKING SPACES
AFFH DWELLING UNITS REQUIREMENT: "MIDDLE-INCOME DWELLING UNITS AND AFFH UNITS": 1 FOR EACH DWELLING UNIT, PLUS 1/4 FOR EACH BEDROOM.
7 TOTAL AFFH DWELLING UNITS: (46) 2-BEDROOM UNITS, (16) 3-BEDROOM UNITS, (2) 4-BEDROOM UNITS
7 (DWELLING UNITS) X 1 = 7 PARKING SPACES
11 (TOTAL BEDROOMS) X .5 = 5.5 (6) PARKING SPACES
TOTAL REQUIRED PARKING FOR MARKET-RATE UNITS: 13 PARKING SPACES
GOLF COURSE/CLUB PARKING CALCULATIONS
GOLF COURSE/CLUB REQUIREMENT: "GOLF OR COUNTRY CLUBS": 1 FOR EACH 3 MEMBERS, PLUS 1 FOR EACH 3 SEATS IN THE MEETING AND/OR DINING ROOMS.
600 TOTAL MEMBERSHIPS:
600 (MEMBERSHIPS) / 3 = 200 PARKING SPACES
287 TOTAL SEATS: (252 RESTAURANT SEATS + 35 BAR SEATS)
287 (SEATS) / 3 = 95.7 (96) = PARKING SPACES
TOTAL REQUIRED PARKING FOR GOLF COURSE/CLUB: 296 PARKING SPACES
TOTAL REQUIRED PARKING: 170 RESIDENTIAL + 296 GOLF COURSE/CLUB = 466 SPACES
TOTAL PROVIDED PARKING: 190 RESIDENTIAL + 230 GOLF COURSE/CLUB + 25 MAINTENANCE + 66 GOLF CLUB RESIDENT CREDIT (1 SPACE/UNIT) = 511 SPACES

LEGEND

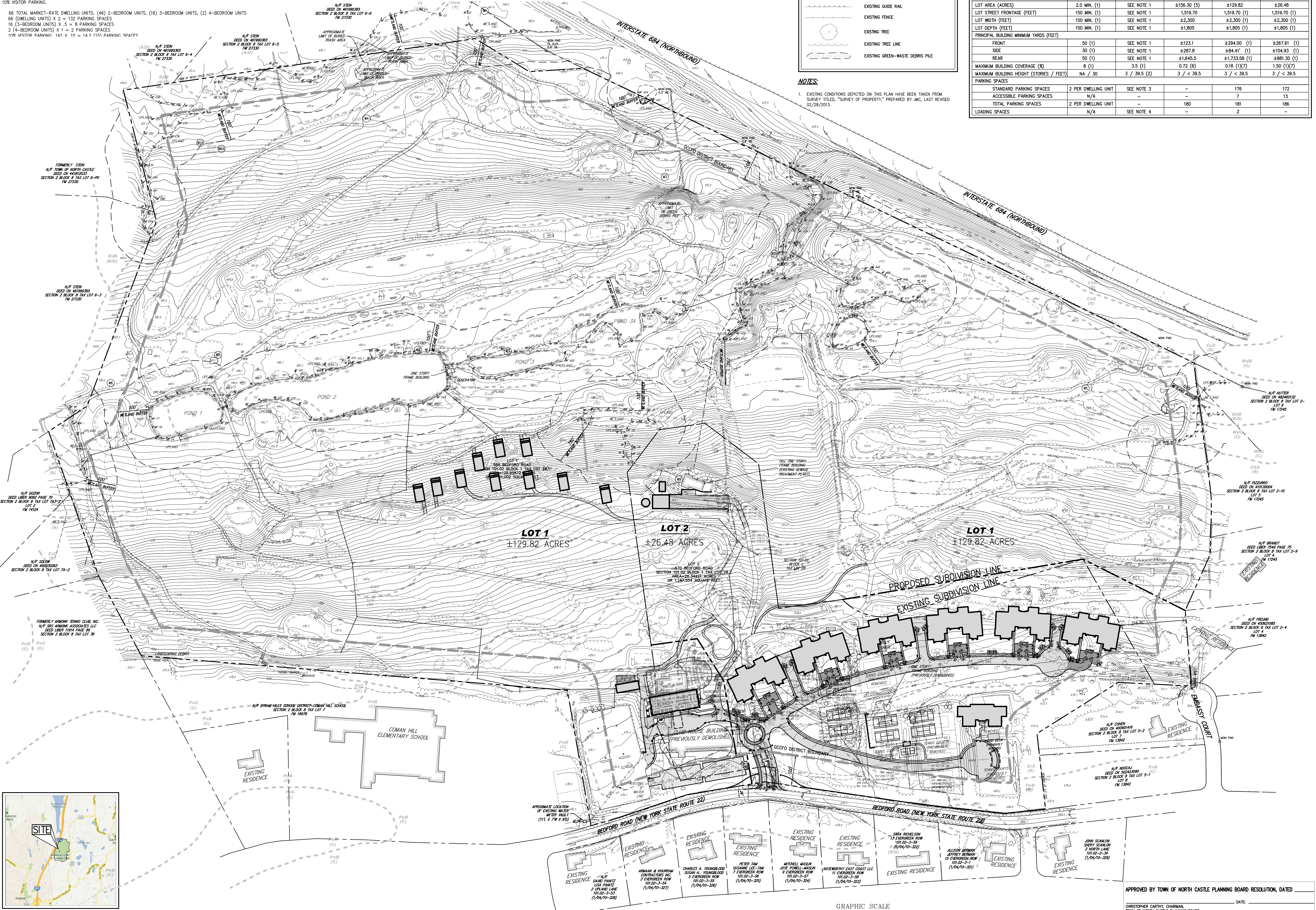
- EXISTING PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- LIMIT OF REGULATED WETLAND BUFFER AREA
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING GREEN-WASTE DEBRIS PILE

NOTES:
1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 02/28/2013.

TABLE OF LAND USE

SECTION 101.02, BLOCK 1, LOT 28.1 & 28.2 (2/08/7.61A)
ZONES "R-2A" - "ONE FAMILY RESIDENCE DISTRICT (2 ACRES)"
"GCFO" - "GOLF COURSE COMMUNITY FLOATING OVERLAY DISTRICT"
PROPOSED USE: GOLF COURSE COMMUNITY
FIRE/AMBULANCE DISTRICT: ARMONK FIRE DEPARTMENT (NORTH CASTLE DISTRICT #2)
WATER DISTRICT: NORTH CASTLE WATER DISTRICT #2
SCHOOL DISTRICT: BYRAM HILLS CENTRAL SCHOOL DISTRICT
SEWER DISTRICT: ON-SITE SEWAGE TREATMENT PLANT (SPDES PERMIT)

| DESCRIPTION | REQUIRED/ PERMITTED (R-2A) | REQUIRED/ PERMITTED (GCFO) | EXISTING | PROPOSED/ PROVIDED (LOT 1) | PROPOSED/ PROVIDED (LOT 2) |
|--|----------------------------------|----------------------------------|-------------|----------------------------------|----------------------------------|
| LOT AREA (ACRES) | 2.0 MIN. (1) | SEE NOTE 1 | ±156.30 (5) | ±129.82 | ±26.48 |
| LOT STREET FRONTAGE (FEET) | 150 MIN. (1) | SEE NOTE 1 | 1,519.70 | 1,519.70 (1) | 1,519.70 (1) |
| LOT WIDTH (FEET) | 150 MIN. (1) | SEE NOTE 1 | ±2,300 | ±2,300 (1) | ±2,300 (1) |
| LOT DEPTH (FEET) | 150 MIN. (1) | SEE NOTE 1 | ±1,805 | ±1,805 (1) | ±1,805 (1) |
| PRINCIPAL BUILDING MINIMUM YARDS (FEET) | | | | | |
| FRONT | 50 (1) | SEE NOTE 1 | ±123.1 | ±294.00 (1) | ±267.61 (1) |
| SIDE | 30 (1) | SEE NOTE 1 | ±287.8 | ±84.41 (1) | ±104.93 (1) |
| REAR | 50 (1) | SEE NOTE 1 | ±1,645.5 | ±1,733.58 (1) | ±881.30 (1) |
| MAXIMUM BUILDING COVERAGE (%) | 8 (1) | 3.5 (1) | 0.72 (6) | 0.16 (1)(7) | 1.50 (1)(7) |
| MAXIMUM BUILDING HEIGHT (STORIES / FEET) | NA / 30 | 3 / < 39.5 (2) | 3 / < 39.5 | 3 / < 39.5 | 3 / < 39.5 |
| PARKING SPACES | | | | | |
| STANDARD PARKING SPACES | 2 PER DWELLING UNIT | SEE NOTE 3 | - | 176 | 172 |
| ACCESSIBLE PARKING SPACES | N/A | - | - | 7 | 13 |
| TOTAL PARKING SPACES | 2 PER DWELLING UNIT | - | 180 | 181 | 186 |
| LOADING SPACES | N/A | SEE NOTE 4 | - | 2 | - |

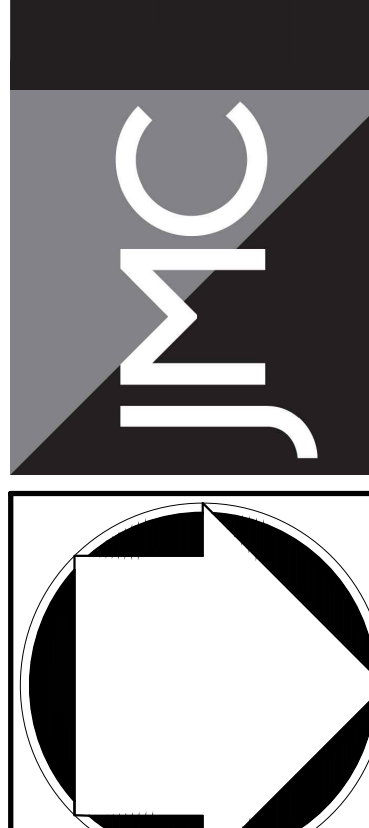


NOT FOR CONSTRUCTION

| No. | Revision | Date |
|-----|---------------------------|------------|
| 1. | RESPONSE TO TOWN COMMENTS | 07/17/2021 |
| 2. | RESPONSE TO TOWN COMMENTS | 03/09/2022 |
| 3. | RESPONSE TO TOWN COMMENTS | 06/14/2022 |
| 4. | RESPONSE TO TOWN COMMENTS | 07/07/2022 |

APPLICANT/OWNER:
SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
420 BEDFORD ROAD - ARMONK, NY 10534
PHONE: 914.233.2222 - FAX: 914.233.2192
www.jmcpllc.com



PRELIMINARY SUBDIVISION PLAN
(NO JURISDICTION SUBDIVISION)
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____
CHRISTOPHER CARRY, CHAIRMAN, TOWN OF NORTH CASTLE PLANNING BOARD
ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER
JOSEPH M. CERNILE, P.E. KELLARD SESSIONS CONSULTING, P.C. CONSULTING TOWN ENGINEER
DATE: _____

Drawn: DK Approved: AG
Scale: 1" = 100'
Date: 11/23/2020
Project No.: 20101
SHEET: 0000000000 SHEET PLACKET-0000

PSP-1

| LEGEND | |
|--------|--|
| | EXISTING PROPERTY LINE |
| | ADJACENT PROPERTY LINE |
| | LIMIT OF REGULATED WETLAND BUFFER AREA |
| | EXISTING WETLAND LINE AND DELINEATION |
| | EXISTING BUILDING LINE |
| | EXISTING PAVEMENT EDGE |
| | EXISTING CURB LINE |
| | EXISTING CONTOUR |
| | EXISTING INDEX CONTOUR |
| | EXISTING STONE WALL |
| | EXISTING RETAINING WALL |
| | EXISTING GUIDE RAIL |
| | EXISTING FENCE |
| | EXISTING TREE |
| | EXISTING TREE LINE |
| | EXISTING STORM DRAIN LINE |
| | EXISTING SANITARY LINE |
| | EXISTING WATER LINE |
| | EXISTING GAS LINE |
| | EXISTING OVERHEAD WIRES |
| | EXISTING ELECTRIC LINE |
| | EXISTING DRAIN INLET |
| | EXISTING MANHOLE |
| | EXISTING FIRE HYDRANT |
| | EXISTING GAS VALVE |
| | EXISTING WATER VALVE |
| | EXISTING UTILITY POLE |
| | EXISTING LIGHT POLE |
| | EXISTING SIGN |
| | TOWN-REGULATED STEEP SLOPES |
| | EXISTING WELL LOCATION AND DESIGNATION |
| | EXISTING GREEN-WASTE DEBRIS PILE |

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC MAP," PREPARED BY JMC, LAST REVISED 03/06/2021. PORTIONS OF EXISTING TOPOGRAPHY HAVE BEEN PROVIDED BY WESTCHESTER COUNTY GIS.

REVISIONS

| No. | Date | Description |
|-----|------------|---------------------------|
| 1. | 07/17/2021 | RESPONSE TO TOWN COMMENTS |
| 2. | 03/09/2022 | RESPONSE TO TOWN COMMENTS |
| 3. | 06/14/2022 | RESPONSE TO TOWN COMMENTS |
| 4. | 07/07/2022 | RESPONSE TO TOWN COMMENTS |

APPLICANT/TOWNER: SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

JMC

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10504
PHONE: 914.233.2222 - FAX: 914.233.2192
WWW.JMCPINC.COM

INTEGRATED PLOT PLAN
(NO JURISDICTION SUBDIVISION)
THE SUMMIT CLUB AT ARMONK
(RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED _____ DATE: _____

CHRISTOPHER CARRY, CHAIRMAN,
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING DRAWINGS REVIEWED BY TOWN CONSULTING ENGINEER

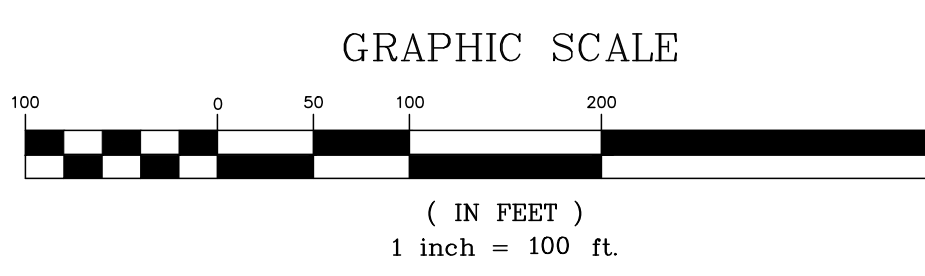
JOSEPH M. CERNIJE, P.E.
KELLARD SESSIONS CONSULTING, P.C.
CONSULTING TOWN ENGINEER

Scale: 1" = 100'
Date: 11/23/2020
Project No: 20101
Drawing No: 200-SUBMITTER (GRADED PLOT PLAN) - SHEET 01

IPP-1



VICINITY MAP
SCALE: 1" = 5,000'



NOT FOR CONSTRUCTION

THE SUMMIT CLUB AT ARMONK NORTH CASTLE, NY

GENERAL NOTES:

- CONTACT THE PROJECT LANDSCAPE ARCHITECT AT: GRANOFF ARCHITECTS P.C. 330 RAILROAD AVE GREENWICH, CT 06830 (203) 625-9460
- THE TERM "CONTRACTOR" SHALL BE DEFINED AS THE GENERAL CONTRACTOR AND SUB-CONTRACTORS; THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING ALL SUBCONTRACTORS HEREON. ALL DRAWINGS AND NOTES APPLY TO ALL CONTRACTORS AND HIS/HER SUBCONTRACTORS.
- CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT AT LEAST 48 HOURS PRIOR TO ANY ROUTINE FIELD OBSERVATION REQUIRED.
- CONSTRUCTION SHALL FOLLOW THE CONDITIONS OF THE PLANS AND SPECIFICATIONS. IN ANY CASE OF DISCREPANCY BETWEEN SITE CONDITIONS AND THE DRAWINGS AND THE SPECIFICATIONS OR BETWEEN DRAWINGS AND SPECIFICATIONS NOTIFY THE LANDSCAPE ARCHITECT AS SOON AS THE DISCREPANCY IS APPARENT.
- VERIFY LOCATIONS, ELEVATIONS AND DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY.
- CONTACT "CALL DIG SAFELY NEW YORK" AT 1-800-962-7962 PRIOR TO ANY SITE WORK ACTIVITY. THE CONTRACTOR SHALL BE AWARE OF ALL SUBSURFACE DRAINAGE AND ALL UTILITIES AS SHOWN ON PLANS AND AS MARKED OUT ON SITE. PROTECT EXPOSED LINES FROM DAMAGE AND DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ALL DAMAGED UTILITIES DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL CONSTRUCTION PERMITS AND LICENSES REQUIRED TO COMPLETE THE WORK. ALL BONDS AND INSURANCE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INFORM ALL CONTRACTORS, SUBCONTRACTORS, AND EMPLOYEES OF ALL CONDITIONS ASSOCIATED WITH ANY PERMITS ISSUED.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL DAMAGE AND DISTURBANCE WHICH MAY OCCUR AS A RESULT OF HIS WORK.
- BLEND NEW WORK SMOOTHLY WITH EXISTING GRADES AND MATERIALS TO REMAIN. AVOID SHARP BREAKS IN GRADE; ROUND OVER TOP AND BOTTOMS OF SLOPES.
- FINAL GRADE IN ALL CASES SHALL SLOPE AWAY FROM THE BUILDING AT A MINIMUM OF 1/4" PER FOOT (2%) AND ALL PAVED AREAS SHALL HAVE A MINIMUM PITCH OF AT LEAST 1/8" PER FOOT (1%).
- ALL TREES OR VEGETATION TO BE REMOVED OR TRANSPLANTED ARE TAGGED ON SITE WITH FLAGGING TAPE. REFER TO TREE PROTECTION PLANS, NOTES AND DETAILS.
- THE CONTRACTOR SHALL PROTECT ALL CATCH BASINS WITH FILTER FABRIC OR STAKED HAY BALES AND SHALL EMPLOY ALL OTHER NECESSARY MEANS TO CONTROL AND PREVENT EROSION THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL AREAS STABILIZED. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA EXPOSED AT ANY ONE TIME AND STABILIZE THE AREA AS SOON AS PRACTICAL. REFER TO EROSION CONTROL DRAWINGS, NOTES AND DETAILS. ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF ANY ACCUMULATED DEBRIS AT THE END OF PROJECT CONSTRUCTION. SEE TREE PROTECTION & EROSION CONTROL DETAILS SHEET.
- THE CONTRACTOR SHALL MAINTAIN ACCESS AND EGRESS TO THE SITE AT ALL TIMES DURING CONSTRUCTION. NOTIFY OWNER 24 HOURS IN ADVANCE OF ANY DISRUPTION IN ACCESS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL DEVICES, WARNING SIGNS, BARRIERS, FLASHERS, FLAG MEN, ETC.) IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. USDOT, FHA 1988 PT. VI, TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS AS MAY BE AMENDED TO DATE, FOR THE MAINTENANCE AND PROTECTION OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON BEDFORD RD. THE STREET SHALL NOT BE CLOSED TO TRAFFIC, NOR SHALL ANY TRAFFIC BE DETOURD TO OTHER STREETS WITHOUT PRIOR WRITTEN APPROVAL OF THE VILLAGE TRAFFIC ENGINEER.
- WORKING HOURS AND ALL NOISE PRODUCING ACTIVITIES MUST CONFORM TO THE TOWN OF NORTH CASTLE REGULATED WORKING HOURS.
- REMOVAL AND DISPOSAL OF ALL MATERIALS TO COMPLY WITH ANY AND ALL STATE AND LOCAL CODES AND REGULATIONS.
- THE CONTRACTOR IS TO RESTORE TO ORIGINAL CONDITION ALL DISTURBED AREAS CAUSED BY THE ACTIVITIES OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE TO SUPERVISE THE ASSEMBLY OF ALL MATERIALS.
- THE CONTRACTOR SHALL DETERMINE THE METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES OF IMPLEMENTING THE PROJECT.
- THE CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED TO PRODUCE A COMPLETE JOB IN ACCORDANCE WITH THE BEST APPLICABLE STANDARDS. IT IS INTENDED THAT THE WORK BE EXECUTED IN ACCORDANCE WITH THE BEST CUSTOMARY BUILDING PRACTICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK OR IF ERRORS, CONFLICTS OR DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY AND REQUEST INTERPRETATION BEFORE PROCEEDING WITH THE WORK. IF THE CONTRACTOR FAILS TO MAKE SUCH A STATEMENT AND REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED, NOR ADDITIONAL EXPENSE BE ACCEPTED FOR FAILURE TO CARRY OUT WORK IN A SATISFACTORY MANNER.
- CONTRACTOR SHALL REFER TO ADDITIONAL NOTES FOUND THROUGHOUT THE CONTRACT DRAWINGS.

OUTDOOR LIGHTING NOTES:

- ALL LIGHTING WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE AND IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE TOWN OF NORTH CASTLE, INCLUDING PERMITS AND REQUIRED INSPECTIONS
- ALL FIXTURES SHALL BE FULL CUTOFF; SHALL BE COMPLIANT WITH DARK SKY RECOMMENDATIONS; OR FITTED WITH SHROUDS TO SHIELD THE LIGHT SOURCE.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES, OUTLETS AND SWITCHES LISTED AND SHOWN ON PLANS. SIZE AND PROVIDE ALL TRANSFORMERS AND JUNCTION BOXES NECESSARY TO COMPLETE THE WORK, INCLUDING CONDUIT, WIRE, FITTINGS, EXCAVATION, BACKFILL, ETC. REQUIRED TO MAKE A COMPLETE FUNCTIONING SYSTEM. ALL FIXTURES SHALL BE SUPPLIED WITH LAMPS. THE LEAST WATT LAMP SHALL BE SUPPLIED, SUBJECT TO THE OWNER'S APPROVAL. RE-LAMPING WITH MAXIMUM WATT LAMPS MAY BE REQUIRED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS NECESSARY FOR A COMPLETE INSTALLATION. THIS INCLUDES SIZING GALVANIZED STEEL AND PVC WITH ALL ASSOCIATED FITTINGS, COUPLINGS AND BUSHINGS. ALL LINE VOLTAGE SHALL BE IN CONDUIT WITH A MINIMUM COVER OF 24 INCHES AND A MINIMUM OF 12 INCHES OF COMPACTED SAND AROUND IT AND AS PER CODE. METALLIC CAUTION TAPE SHALL BE PLACED 6 INCHES BELOW FINISHED GRADE.
- ALL WIRING AND TRENCHING TO TREE TRUNKS BENEATH TREE CANOPIES TO BE RADIAL TO TREE TRUNK AND APPROVED BY L.A. PRIOR TO GROUND DISTURBANCE. TRENCHING WITHIN THE TREE CANOPY SHALL BE EXCAVATED WITH AN AIR SPADE TOOL TO MINIMIZE ROOT DAMAGE. CARE IS TO BE TAKEN TO PREVENT EXPOSED TREE ROOTS FROM DRYING.
- FINAL SWITCH LOCATIONS TO BE APPROVED BY OWNER. CONTRACTOR SHALL VERIFY AND COORDINATE NEW SWITCHES WITH EXISTING INTERIOR LIGHTING. DRAWING SHOWS PROPOSED LANDSCAPE LIGHTING AND DOES NOT SHOW EXISTING ARCHITECTURAL LIGHTING
- FINAL FIXTURE PLACEMENT TO BE APPROVED BY THE LANDSCAPE ARCHITECT & OWNER AFTER NIGHTTIME DEMONSTRATION OF INITIAL PLACEMENT.
- ALL PATH LIGHTS TO BE LOCATED 12" BACK FROM EDGE OF PAVING UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
- LOCATIONS OF TRANSFORMERS, JUNCTION BOXES, FIXTURES AND OUTLETS ARE A GRAPHIC REPRESENTATION AND MAY NOT SHOW PRECISE LOCATION. FINAL LOCATIONS TO BE APPROVED BY L.A. PRIOR TO INSTALLATION. ACTUAL WIRING ROUTES ARE NOT SHOWN ON THIS PLAN. WIRING ROUTES INDICATED ARE A GRAPHIC REPRESENTATION OF CONNECTIONS AND GROUPINGS OF LIGHTS FOR SWITCHING. L.A. TO APPROVE WIRING ROUTES PRIOR TO GROUND DISTURBANCE. ALL LINE VOLTAGE RUNS IN CONDUIT MINIMUM 18 INCHES DEEP OR AS PER LOCAL CODE..
- STAKE MOUNTED UPLIGHTS TO BE MOVABLE WITHIN A SIX (6) FOOT RADIUS OF INSTALLED LOCATION.
- TRANSFORMERS FOR LOW VOLTAGE LIGHTING AND JUNCTION BOXES NOT SHOWN. CONTRACTOR TO DETERMINE NUMBER REQUIRED AND COORDINATE THEIR LOCATION WITH THE LANDSCAPE ARCHITECT.
- WIRING SIZES ARE TO BE DETERMINED BY ELECTRICIAN TO INSURE FULLY FUNCTIONAL SYSTEM WITH NO MORE THAN A 5% VOLTAGE DROP FROM EACH TRANSFORMER TO FARTHEST FIXTURE ON LINE FROM THAT TRANSFORMER.
- ALL WIRE CONNECTIONS TO BE THOROUGHLY SEALED WITH SILICONE SEALANT & WILL BE LOCATED WITHIN FIXTURE STEMS, TREE MOUNTS, OR JUNCTION BOXES WHEREVER POSSIBLE. DIRECT BURIAL OF LOW VOLTAGE CONNECTIONS WILL BE MINIMIZED; DIRECT BURIAL CONNECTIONS FOR LINE VOLTAGE WILL NOT BE PERMITTED.
- REVIEW EXISTING CONDITIONS AND PROPOSED PLANTING PLANS. ELECTRICIAN TO BE RESPONSIBLE FOR RESTORING ANY SITE OR UTILITY DAMAGE CAUSED BY HIS INSTALLATION WORK.
- SEE LIGHTING PLAN FOR LIGHT FIXTURE TYPE AND SPECIFICATIONS.

TREE PROTECTION AND EROSION CONTROL NOTES:

- ALL TREE PROTECTION AND REMOVALS SHALL BE IN ACCORDANCE WITH THE DRAWINGS, DETAILS AND NOTES HEREON. REFER TO TREE PROTECTION DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION
- PRIOR TO ANY OTHER WORK, THE CONTRACTOR SHALL STAKE OUT THE LIMITS OF "TREE PROTECTION AREAS" WITHIN THE WORK ZONE AS SHOWN ON THE PLANS FOR APPROVAL BY THE LANDSCAPE ARCHITECT. IF NO TREE/LANDSCAPE PROTECTION AREA LIMITS ARE SPECIFICALLY SHOWN ON THE PLANS AND WORK WILL OCCUR IN OR NEAR TREES OR VEGETATED AREAS, THE LANDSCAPE ARCHITECT WILL DIRECT THE CONTRACTOR, THE INTENT OF THE LIMITS ARE TO PROTECT THE ROOT ZONE OF INDIVIDUAL TREES AND GROUPINGS OF TREES (USING THE "DRIPLINE" - THE VERTICAL PROJECTION TO THE GROUND OF THE TREES' CANOPY - AS A GUIDE). LAWNS AND OTHER VALUABLE VEGETATION TO THE MAXIMUM EXTENT FEASIBLE WHILE ALLOWING THE CONTRACTOR SUFFICIENT ROOM TO OPERATE. THEREFORE, THE CONTRACTOR MUST ASSESS THE ADEQUACY OF THE ALLOWED SPACE FOR ALL CONCEIVABLE ACTIVITIES INCLUDING THE PARKING OF PERSONAL VEHICLES. IT IS UNDERSTOOD THAT WORK MAY NEED TO OCCUR IN THE ROOT ZONE OF TREES, IN SUCH CASES, THE CONTRACTOR MAY PROPOSE ADJUSTMENTS TO THE STAKEOUT OF PROTECTION LIMITS TO SUIT FIELD CONDITIONS AND SUCH OPERATIONS. ANY SUCH ADJUSTMENTS SHALL BE SHOWN ON A PLAN AND/OR APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL, PARK ANY VEHICLE, OR DRIVE ANY VEHICLE WITHIN THE DRIP LINE OF EXISTING TREES. IT IS UNDERSTOOD THAT LOCALIZED STAGINGS/STORAGE AREAS MAY BE NECESSARY IN ADDITION TO ANY MAIN AREAS SHOWN ON PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT FOR ANY AREAS OUTSIDE TREE/LANDSCAPE PROTECTION FOR AREAS APPROPRIATE FOR STORAGE OF MATERIALS, AND EQUIPMENT AS WELL AS PARKING OF CONTRACTOR'S VEHICLES AND ACCESS ROUTES THROUGH THE ACTIVE WORK ZONE. THESE AREAS MUST BE DEFINED BY APPROPRIATE FENCING AND MUST MEET ALL TREE PROTECTION SPECIFICATIONS.
- ONCE PROTECTION FENCING IS IN PLACE, THE CONTRACTOR SHALL NOT ENTER OR DAMAGE OR DIMINISH THE LANDSCAPE OR ANY PORTION THERE OF WITHIN THE DEFINED TREE/LANDSCAPE PROTECTION AREAS. AT ALL TIMES DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL AVOID SOIL COMPACTION, POLLUTION, EROSION AND IMPACTS TO EXISTING VEGETATION UNLESS REMOVAL, SELECTIVE THINNING OR CLEARING ARE SPECIFIED IN THE DRAWINGS.
- WHERE WORK AREAS MUST ENCRATCH ON TREE ROOT ZONES, THE CONTRACTOR, IF ORDERED BY LANDSCAPE ARCHITECT OR AS NOTED ON THE PLANS, SHALL FURNISH APPROXIMATELY 12-INCH LAYER OF WOOD CHIPS OR ACCESS MAT WITHIN THE DRIP LINE AREA TO REDUCE SOIL COMPACTION ON UNPAVED AREAS TO MINIMIZE SOIL COMPACTION AND PREVENT CONTAMINATION OF EXISTING SOIL. UNDER NO CIRCUMSTANCES MAY PETROLEUM PRODUCTS, CONCRETE WASH WATER, PAINT, OR OTHER POLLUTANTS BE ALLOWED TO SEEP INTO THE LANDSCAPE.
- THE LANDSCAPE ARCHITECT MUST BE NOTIFIED WHENEVER TRENCHING OCCURS WITHIN THE DRIPLINE FOR ANY TREE. ALL EXCAVATION WITHIN THE DRIP LINE OF A TREE OR NEAR THE DRIP LINE SHALL BE PERFORMED WITH AN AIR SPADE. THERE WILL BE NO SEPARATE PAYMENT FOR ANY REQUIRED AIR SPADE EXCAVATION. SEE ROOT PRUNING AND TRENCHING DETAILS.
- NO TREE PRUNING MAY BE PERFORMED EXCEPT BY (OR UNDER THE SUPERVISION OF) A QUALIFIED TREE-CARE PROFESSIONAL APPROVED BY THE LANDSCAPE ARCHITECT.
- "UNAUTHORIZED" TREE REMOVALS: IF THE CONTRACTOR REMOVES TREES NOT IDENTIFIED ON THE DRAWINGS OR REMOVES TREES NOT APPROVED BY LANDSCAPE ARCHITECT, OR SO SEVERELY DAMAGES TREES AS A RESULT OF CONSTRUCTION ACTIVITY THAT IN THE JUDGMENT OF LANDSCAPE ARCHITECT THEY MUST BE REMOVED, THE CONTRACTOR SHALL PROVIDE REPLACEMENT TREES AT HIS/HER OWN EXPENSE. SUCH THAT FOR EACH TREE REMOVED EQUALS ONE SIX INCH CALIPER TREE AS APPROVED BY THE LANDSCAPE ARCHITECT. THE FINAL LOCATION OF REPLACEMENT TREES SHALL BE WITHIN THE PROJECT LIMITS AND WILL BE LOCATED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF PLANTING WITHIN THE LIMITS IS NOT POSSIBLE THE LANDSCAPE ARCHITECT, OWNER, AND CONTRACTOR SHALL AGREE ON APPROPRIATE MITIGATION. ANY REPLACEMENT TREES PLANTED AS MITIGATION MUST BE WATERED, MAINTAINED AND GUARANTEED PER PLANTING SPECIFICATIONS IN THE DRAWINGS AND AT NO ADDITIONAL COST.
- LANDSCAPE MAINTENANCE DURING CONSTRUCTION: DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL MAINTAIN THE APPEARANCE OF THE PROJECT SITE BY REMOVING LITTER, DEBRIS AND EXCESS MATERIALS, AS PART OF THE CONSTRUCTION OPERATIONS. FROM THE WORK SITE ON A REGULAR BASIS AND SHALL STORE ALL CONSTRUCTION EQUIPMENT AND CONSTRUCTION MATERIAL IN AN ORGANIZED MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
- IN CASE OF A TREE REMOVAL, ALL REMNANTS INCLUDING, BUT NOT LIMITED TO, STUMPS, TRUNKS, LIMBS, BRANCHES, AND FOLIAGE SHALL BE DISPOSED OF AS EXPEDITIOUSLY AS POSSIBLE.
- RESTORATION OF LANDSCAPE: ALL EXCESS MATERIALS AND DEBRIS RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR, AS PART OF SITE RESTORATION. ALL SOIL DIMINISHED AND/OR CONTAMINATED WITH EXCESS MATERIAL AND DEBRIS SHALL ALSO BE REMOVED AND REPLACED WITH TOPSOIL ACCEPTABLE TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR, AS DIRECTED BY LANDSCAPE ARCHITECT, SHALL RESTORE A MINIMUM OF 6" OF NEW TOPSOIL ON ALL AREAS WHERE THE TOPSOIL LAYER HAS BEEN DIMINISHED OR LOST DUE TO HIS/HER OPERATIONS. OUTSIDE THE DRIP LINE OF TREES, IF IT IS DETERMINED BY THE LANDSCAPE ARCHITECT THAT THE SOIL HAS BEEN COMPACTED DURING THE COURSE OF THE PROJECT, IT WILL BE UNCOMPACTED AND LOOSENED (BY USE OF AN AIR SPADE WITHIN AND NEAR THE DRIPLINES OF TREES) TO THE DEPTH OF 12 INCHES PRIOR TO FINAL GRADING OR PLANTING. UNDER NO CIRCUMSTANCES MAY HEAVY EQUIPMENT (IE. PAVLOADERS) BE USED TO ACCOMPLISH SITE RESTORATION WITHIN THE DRIP LINE OF TREES. IN ALL ROOT-SENSITIVE AREAS, WORK MUST BE DONE USING ONLY AN AIR SPADE.
- ALL UTILITY CONFLICTS WITH PROPOSED TREES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFER TO THE DEMOLITION/EROSION CONTROL PLAN FOR MORE INFORMATION

PLANTING NOTES:

- SEE DEMOLITION AND EROSION CONTROL DRAWING FOR EXISTING PLANTS TO BE STOCKPILED AND MAINTAINED FOR TRANSPLANTING. ADDITIONAL PLANTINGS MAY BE REQUIRED FOR TOP OF WALL BARRIER PLANTING AND WILL BE REQUESTED UPON OWNER'S APPROVAL. ADDITIONAL PLANTING PHASES TO BE COMPLETED IN SEPARATE CONTRACT (SPRING SEASON).
- TOPSOIL FOR PLANTING:
 - MATERIAL: TOPSOIL SHALL CONSIST OF NATURAL LOAM, FREE FROM SUBSOIL, OBTAINED FROM AN AREA THAT HAS NEVER BEEN PREVIOUSLY STRIPPED. MANUFACTURED OR AMENDED SOILS ARE NOT ACCEPTABLE UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.
 - QUALITY: TOPSOIL SHALL BE OF UNIFORM QUALITY, FREE FROM HARD CLODS, STIFF CLAY, HARD PLAN, SODS, PARTIALLY DISINTEGRATED STONE, LIME, CEMENT, ASHES, SLAG, CONCRETE, TAR RESIDUES, TARRED PAPER, BOARDS, CHIPS, STICKS, OR ANY OTHER UNDESIRABLE MATERIAL.
 - NO TOPSOIL SHALL BE DELIVERED, MANIPULATED OR HANDLED IN A FROZEN OR MUDDY CONDITION. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT, ON OR AFTER DELIVERY, OF ANY MATERIAL THAT DOES NOT, IN THEIR OPINION, MEET THESE SPECIFICATIONS.
- IRRIGATION SYSTEM (SEPARATE PRICE):
 - THE EXISTING IRRIGATION SYSTEM SHALL BE MODIFIED AND SHALL BE A FULLY OPERATIONAL AND COMPLETE IN-GROUND IRRIGATION SYSTEM, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - ALL EXCAVATION, TRENCHING, PUMPS, FILTERS, VALVES, BOXES, TIMERS, CONNECTIONS, WIRING, PIPING, DRIP TUBE, HEADS AND EMITTERS AS NECESSARY.
 - CONTRACTOR IS REQUIRED TO COORDINATE WORK WITH IRRIGATION CONTRACTOR. CONTRACTOR SHALL PROVIDE SLEEVES AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE IRRIGATION INSTALLER
- NEW SEED (INCLUDING FINE GRADING) WHERE REQUIRED:
 - INSTALLATION OF SEED SHALL INCLUDE FINE GRADING, PREPARATION OF SOIL BED, INCORPORATION OF FERTILIZER AND PEST PROTECTION (BEFORE AND AFTER INSTALLATION) AND MAINTENANCE UNTIL FINAL ACCEPTANCE.
 - SEED MIX SHALL BE LOW MAINTENANCE, NATIVE, AND DROUGHT TOLERANT MIX WITH ANNUAL RYE. SEED MIX APPROPRIATE FOR TIME OF PLANTING. SEED MIX TO BE APPROVED BY THE LANDSCAPE ARCHITECT. SEEDING RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 - FERTILIZER FOR LAWNS: FERTILIZE LAWN AREAS EVENLY USING MECHANICAL METHODS ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED. FERTILIZER TO BE "SCOTT'S ORGANIC CHOICE LAWN FOOD" BY THE SCOTT'S MIRACLE-GRO COMPANY 14111 SCOTTSLAWN ROAD MARYSVILLE, OH 43041, OR AS RECOMMENDED BY THE SOD GROWER, OR APPROVED EQUAL.
- ACCEPTANCE (OF SEED): THE LANDSCAPE ARCHITECT SHALL REJECT ANY AREAS OF SEED WHICH IN THEIR OPINION HAS NOT PROPERLY GERMINATED TO FORM AN EVEN AND VIGOROUS GROWING BED. REJECTED SEED BEDS SHALL BE PREPARED AND RE-SEEDED AT NO COST TO THE OWNER. SEED LAWNS SHALL BE READY FOR ACCEPTANCE AFTER A MINIMUM OF A 60 DAY ACTIVE GROWING PERIOD, UNTIL A UNIFORM STAND OF 2 1/2 INCHES IS OBTAINED, WITH A MINIMUM OF 95% COVERAGE. UNACCEPTED SEED LAWNS SHALL BE RE-SEEDED AS SPECIFIED.

5. MAINTENANCE OF SEED:

-THE CONTRACTOR SHALL PROPERLY WATER AS OFTEN AS REQUIRED TO MAINTAIN OPTIMUM GROWING CONDITIONS UNTIL FINAL ACCEPTANCE, THE CONTRACTOR SHALL MAINTAIN LAWN AT ONE AND A HALF TO THREE INCHES (1-1/2 TO 3") IN HEIGHT, FOR TWO MOWINGS OR UNTIL ACCEPTANCE. CONTRACTOR SHALL MONITOR IRRIGATION SYSTEM TO ENSURE NEW SOD AND SEED LAWNS RECEIVE PROPER AMOUNTS OF WATER.

-MAINTAIN ALL LAWNS THROUGHOUT AND IMMEDIATELY FOLLOWING PLANTING OPERATIONS UNTIL PROJECT IS CERTIFIED SUBSTANTIALLY COMPLETE.

-MAINTAIN SURFACES AND SUPPLY ADDITIONAL TOPSOIL WHERE NECESSARY, INCLUDING AREAS AFFECTED BY EROSION. REPLANT DAMAGED LAWN AREAS SHOWING GROWTH FAILURE, DETEIORATION, BARE OR THIN SPOTS AND ERODED AREAS.

LOCATION MAP:



LOCAL MAP (N.T.S.)

DRAWING LIST:

| | |
|----------|---|
| LS C | COVER SHEET |
| LS 100.0 | OVERALL SITE PLAN - SOUTHERN DEVELOPMENT |
| LS 100.1 | OVERALL SITE PLAN - NORTHERN DEVELOPMENT |
| LS 101 | AMENITIES SIDE SITE PLAN - LANDSCAPE |
| LS 102 | MAIN ENTRY PLAN - LANDSCAPE |
| LS 103 | RESIDENTIAL SIDE SITE PLAN - LANDSCAPE |
| LS 104 | RESIDENTIAL TYPICAL PLAN - LANDSCAPE |
| LS 105 | DETENTION BASIN PLANTING PLAN |
| LS 106 | WATER TREATMENT AREA AND SCHEMATIC COTTAGES |

REFER TO GRANOFF ARCHITECTS ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION

ABBREVIATIONS:

| ABBREVIATION | DESCRIPTION | MANUF. | MANUFACTURER |
|--------------|---------------------------|--------|------------------|
| B.P. | BOTTOM PIER | MAX. | MAXIMUM |
| B.S. | BOTTOM STEP | MFR. | MANUFACTURER |
| B.W. | BOTTOM WALL | MIN. | MINIMUM |
| BL | BASE LINE | MH | MAN HOLE |
| BC | BOTTOM OF CURB | NEC. | NECESSARY |
| BLDG. | BUILDING | N.I.C | NOT IN CONTRACT |
| CL | CENTER LINE | N.T.S | NOT TO SCALE |
| CMU | CONCRETE MASONRY UNIT | NO./# | NUMBER |
| CONC. | CONCRETE | OC | ON CENTER |
| CONT. | CONTINUOUS | PL | PROPERTY LINE |
| DI | DRAIN INLET | R | RISER |
| DIA. | DIAMETER | REQ'D | REQUIRED |
| DN | DOWN | R.O.W. | RIGHT OF WAY |
| EA. | EACH | SPEC. | SPECIFICATION |
| EJ | EXPANSION JOINT | SQ. | SQUARE |
| EL. | ELEVATION | T | TREAD |
| ELEV. | ELEVATION | TC | TOP OF CURB |
| EQ. | EQUAL | T.P. | TOP PIER |
| E.W. | EACH WAY | T.S. | TOP STAIR |
| EX.JT. | EXPANSION JOINT | T.W. | TOP WALL |
| EXPJT. | EXISTING | TBD | TO BE DETERMINED |
| EX. | EXISTING | TPP | TYPICAL |
| FL | FLOW LINE | UW | UNDER WATER |
| FLR. | FLOOR | UG | UNDERGROUND |
| FLWR | FLOWER | VIF | VERIFY IN FIELD |
| FTG. | FOOTING | W/L | WATER LINE |
| G | GRATE ELEVATION/RIM ELEV. | W/ | WITH |
| H.B. | HOSE BIB | W/O | WITHOUT |
| JNT. | JOINT | WT | WATERTABLE |

REFER TO OTHER DRAWINGS FOR LEGENDS AND KEYS

GRANOFF ARCHITECTS

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Landscape Architect:
Granoff Architects
330 Railroad Ave.
Greenwich, CT 06830

Client:
JMC Site Development Consultants
120 Bedford Road
Armonk, NY 10504

| # | DATE | REVISION DESCRIPTION | BY: |
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| 1 | 11.23.20 | PLANNING BOARD SUBMISSION | KA |
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| 4 | 05.08.21 | ARB SUBMISSION | KA |
| 5 | 06.14.21 | PLANNING BOARD SUBMISSION | KA |
| 6 | 07.12.21 | PLANNING BOARD SUBMISSION | KA |
| 7 | 11.23.21 | EDIT, PROSHOP LAYOUT SCHEM | JS |
| 8 | 11.02.22 | PLANNING BOARD SUBMISSION | KA |

PHASE

SUBMITAL

PROJECT NAME

SUMMIT CLUB PARTNERS LLC

ARMONK, NY

JOB NO.: 20035

DRAWN BY: JS

PROJ. MANAGER: KA

DATE: 01.10.22

SCALE:

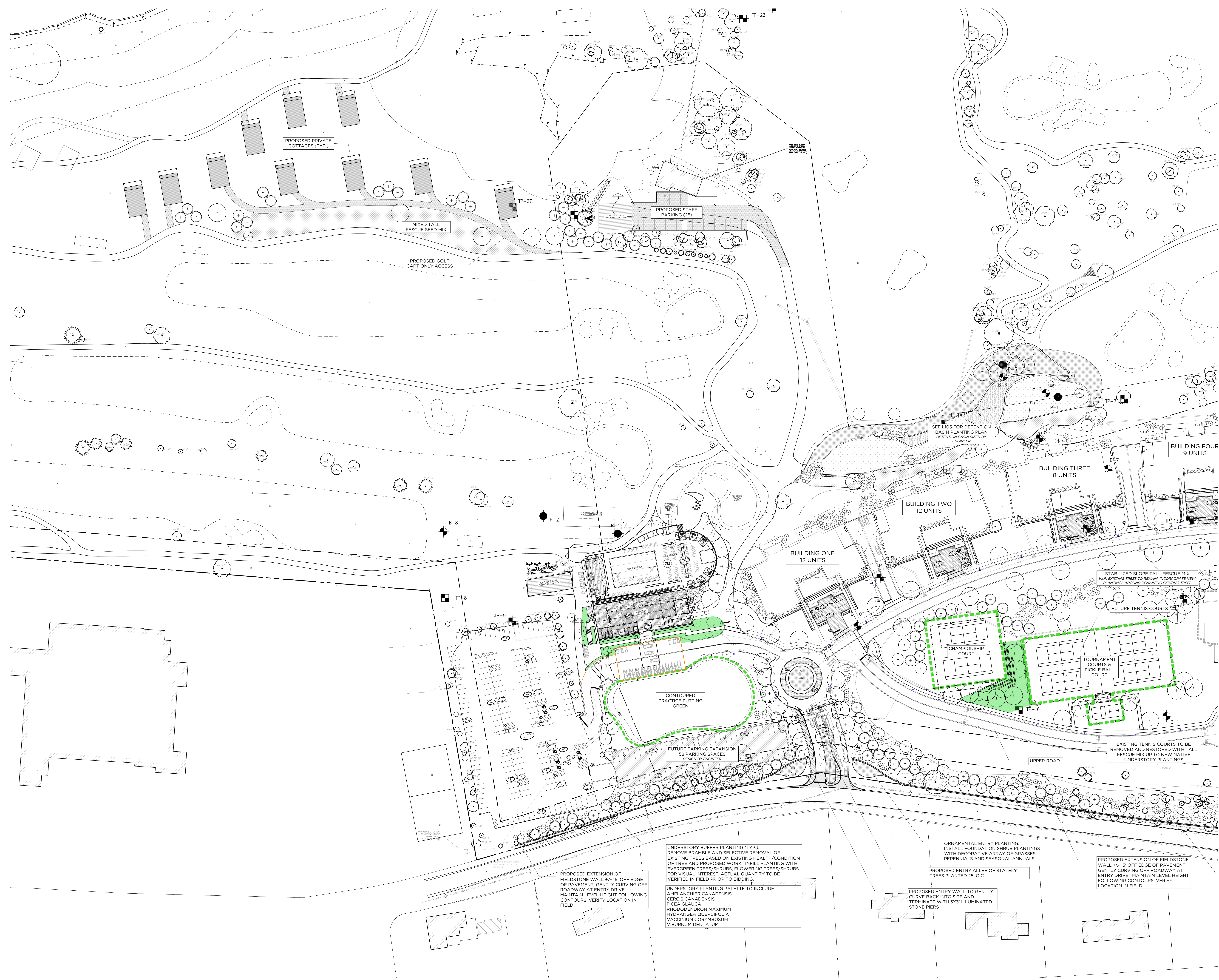
DRAWING TITLE

COVER

DRAWING NO.

LS C

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ARMONK, NY
 JOB NO.: 20035
 DRAWN BY: JS PROJ. MANAGER: KA
 DATE: 01.10.22 SCALE:

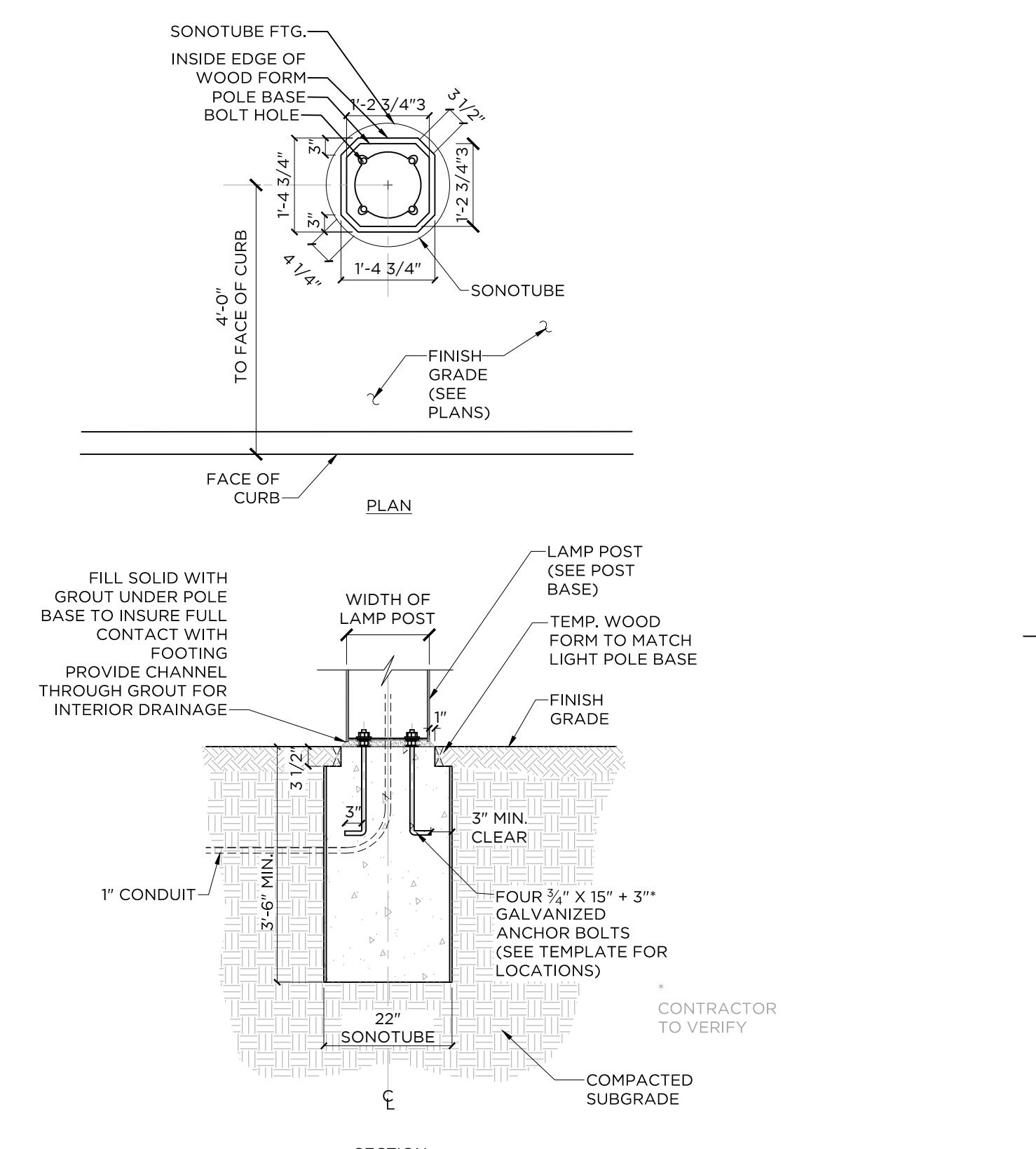
OVERALL SITE PLAN - SOUTHERN DEVELOPMENT

DRAWING NO.
LS100.0

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OVERALL SOUTHERN LANDSCAPE SITE PLAN

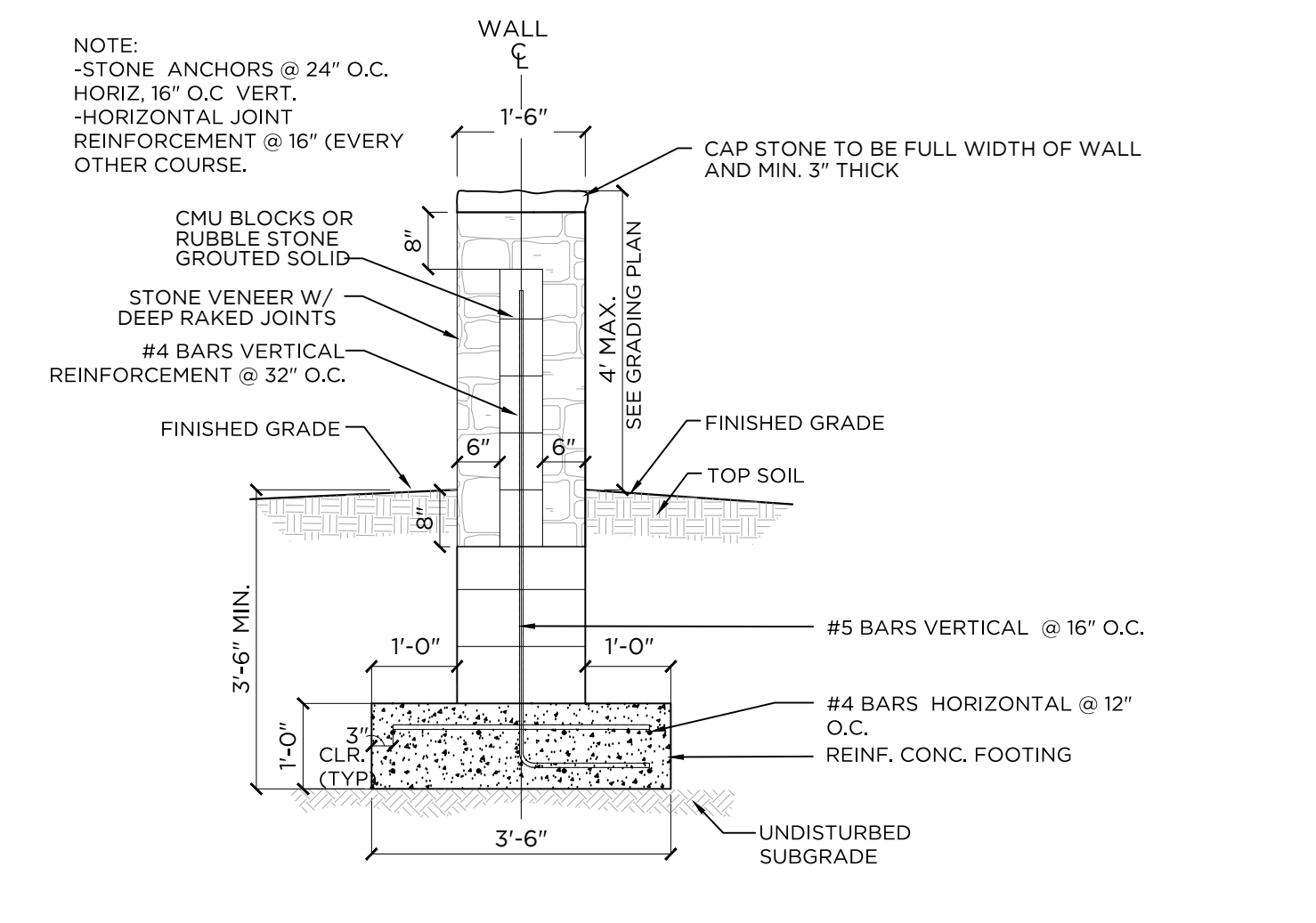
1" = 50'-0"

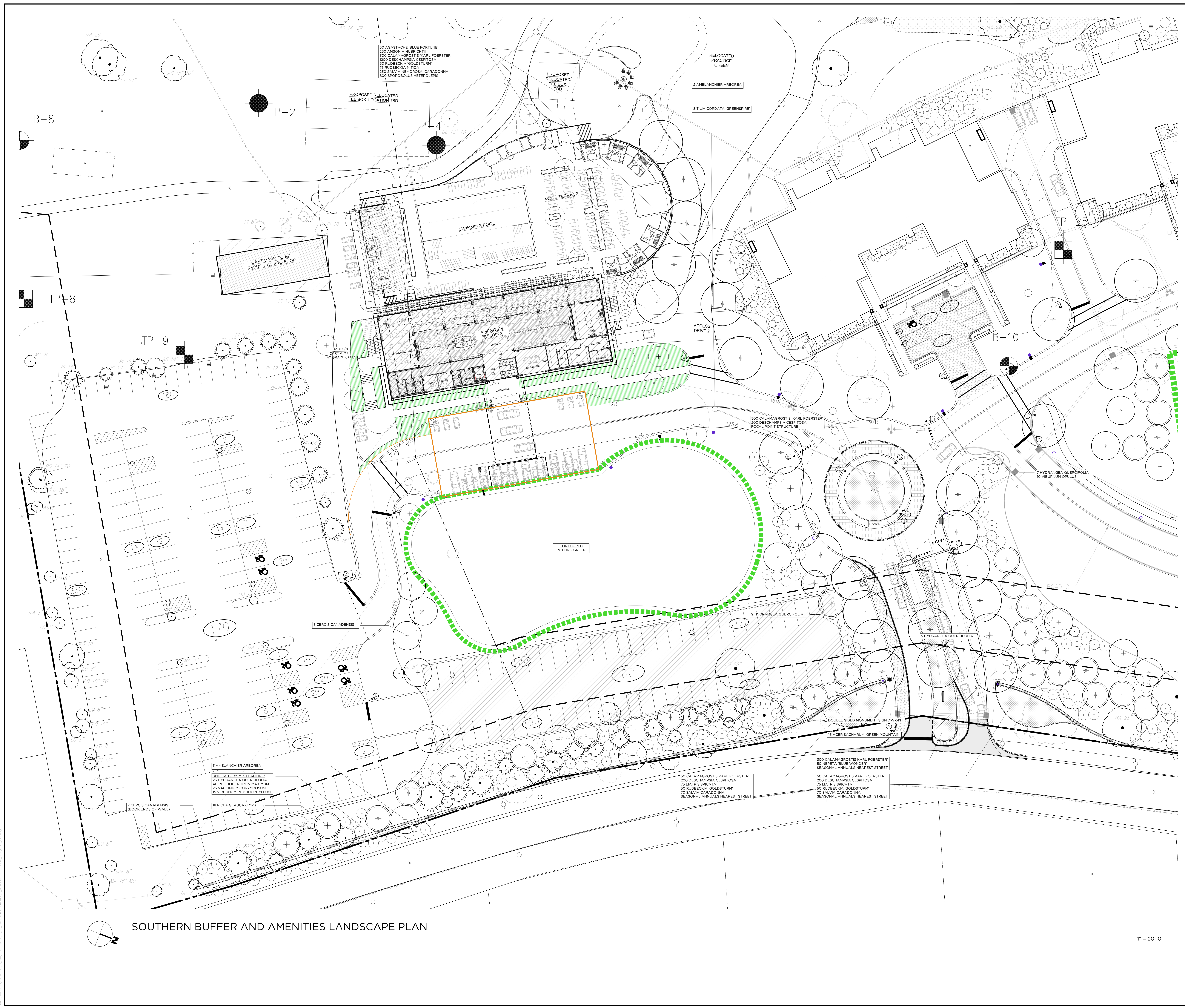


NOTES:
 - SEE PLAN FOR LOCATIONS.
 - EXISTING FOOTINGS TO REMAIN AND BE REUSED FOR NEW LIGHT POLES IF DETERMINED TO BE STRUCTURALLY SUITABLE
 - LIGHTING SPEC - USA LIGHTING RZR - 18' MOUNTING HEIGHT
 - SEE APEX LIGHTING PLAN FOR FULL SPEC

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SOUTHERN BUFFER AND AMENITIES LANDSCAPE PLAN

1" = 20'-0"

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| 5 | 06.14.21 | PLANNING BOARD SUBMISSION | KA |
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ARMONK, NY
JOB NO.: 20035
DRAWN BY: JS PROJ. MANAGER: KA
DATE: 01.10.22 SCALE:
DRAWING TITLE:
AMENITIES SIDE SITE PLAN - LANDSCAPE

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LS101

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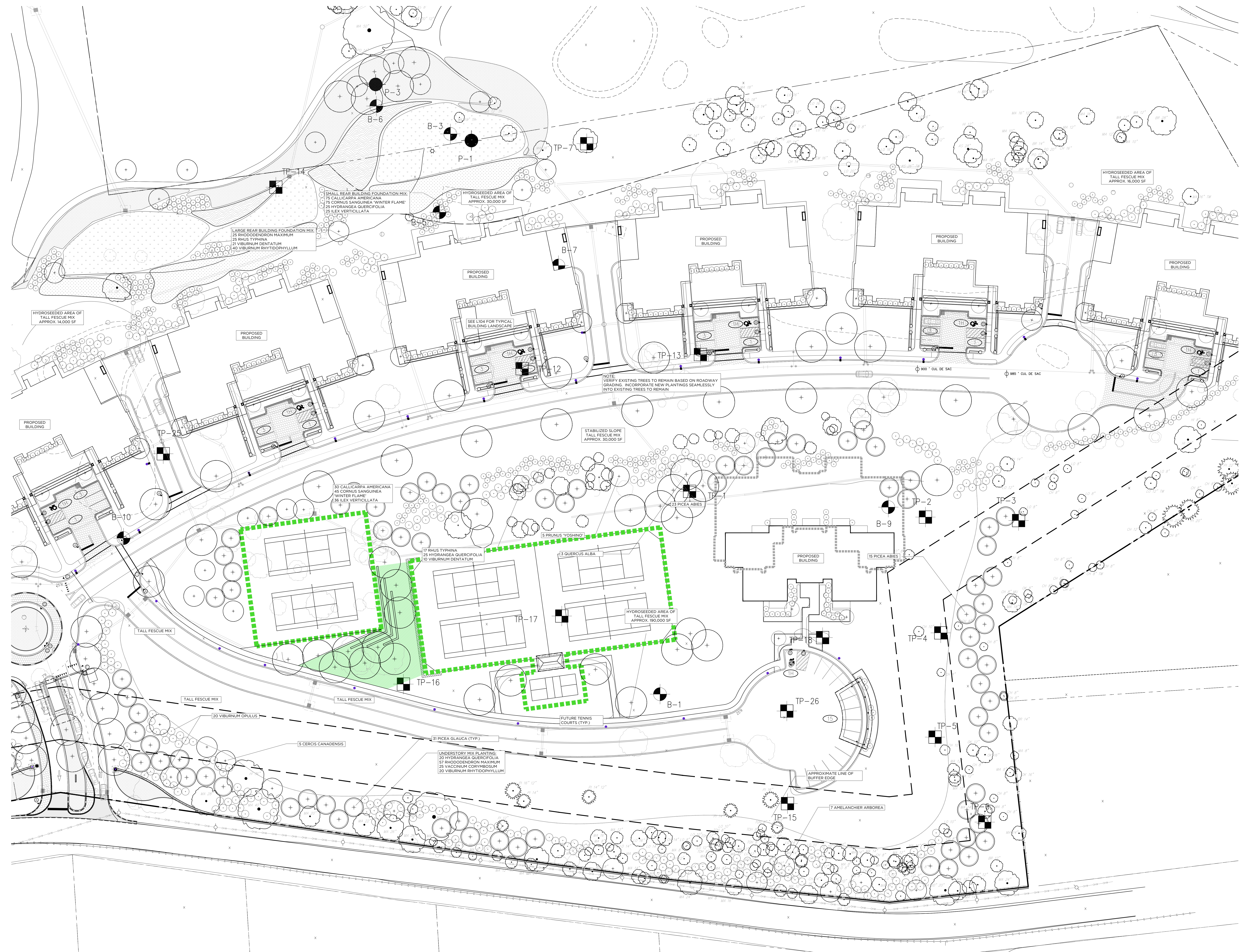
DRAWING TITLE
MAIN ENTRY PLAN - LANDSCAPE

DRAWING NO.
LS102

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MAIN ENTRY LANDSCAPE PLAN

1" = 20'-0"



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| 6 | 07.12.21 | PLANNING BOARD SUBMISSION | KA |
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 DATE: **01.10.22** SCALE:

DRAWING TITLE
RESIDENTIAL SIDE SITE PLAN - LANDSCAPE

DRAWING NO.
LS103

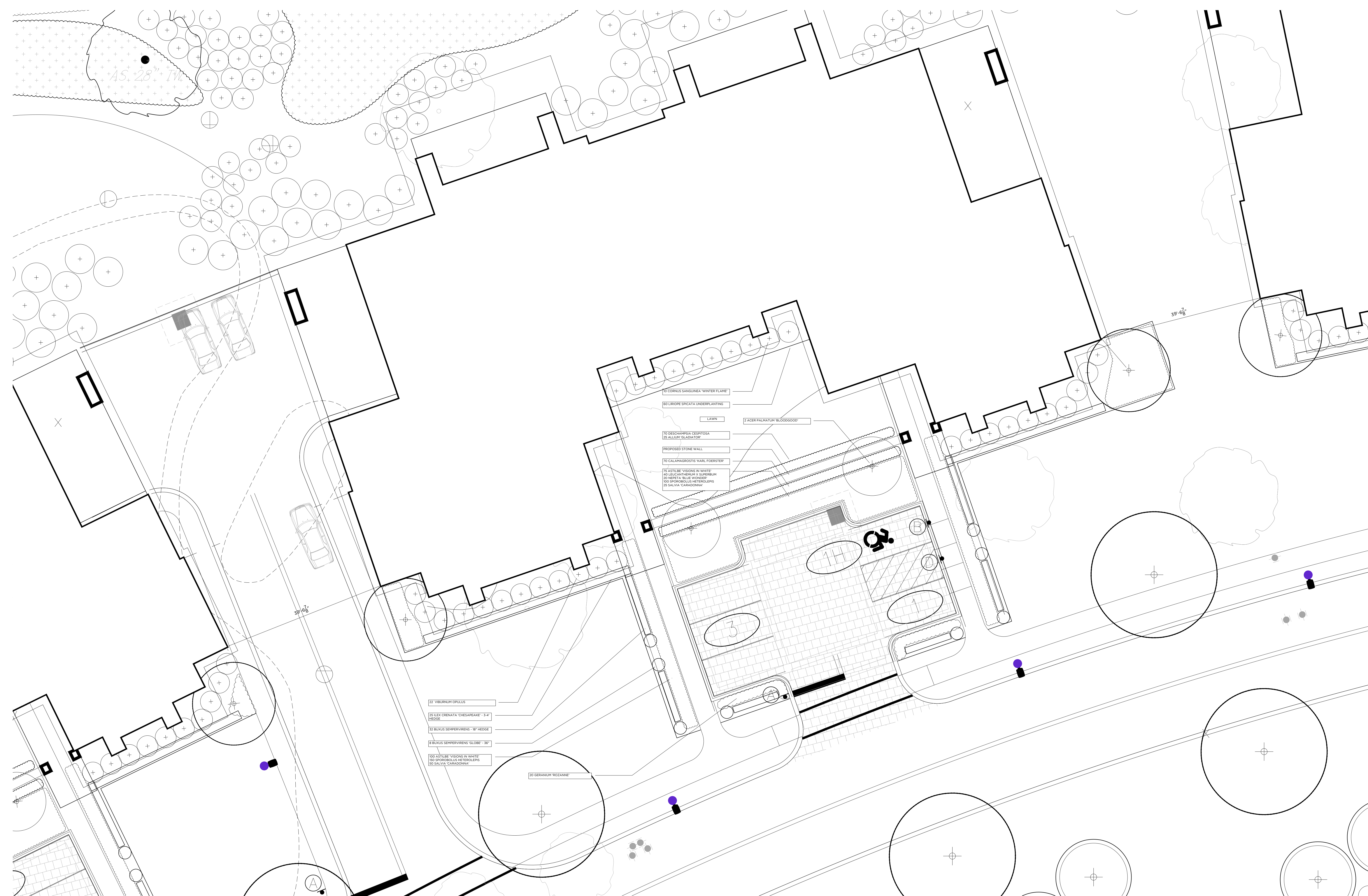
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NORTHERN BUFFER AND RESIDENTIAL LANDSCAPE PLAN

1" = 30'-0"

PLANTING SCHEDULE

| Residence Landscape Typical | | | | |
|-------------------------------|---|---------------------------|---------|--------------------|
| QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | REMARKS |
| 4 TREES | | | | |
| 2 | <i>Acer palmatum 'Bloodgood'</i> | Japanese Maple | 8-10' | Matching |
| 2 | <i>Acer rubrum 'October Glory'</i> | | 3' cal. | Matching |
| 97 SHRUBS | | | | |
| 8 | <i>Buxus sempervirens 'Globe'</i> | Boxwood | 36" | Globe specimen |
| 32 | <i>Buxus sempervirens</i> | Boxwood | 18" | Hedge quality |
| 10 | <i>Cornus sanguinea 'Winter Flame'</i> | Red twig Dogwood | 3 gal. | |
| 25 | <i>Ilex crenata 'Chesapeake'</i> | Chesapeake Japanese Holly | 3-4' | Full Hedge quality |
| 22 | <i>Viburnum opulus</i> | Snowball Viburnum | 5 gal. | Full Shape |
| 731 GRASSES/PERENNIALS | | | | |
| 75 | <i>Astilbe x 'Vagabond in White'</i> | White Astilbe | 1 gal. | |
| 90 | <i>Carex 'Ice Dance'</i> | Sedge | 1 gal. | |
| 5 | <i>Clematis terniflora 'Sweet Autumn'</i> | Sweet Autumn Clematis | 1 gal. | |
| 90 | <i>Deschampsia cespitosa</i> | Tufted Hair Grass | 1 gal. | |
| 26 | <i>Echinacea 'White Swan'</i> | Coneflower | 1 gal. | |
| 20 | <i>Geranium 'Rozanne'</i> | Cranesbill | 1 gal. | |
| 60 | <i>Liriope spicata</i> | Lily Turf | 1 gal. | |
| 40 | <i>Leucanthemum x superbum</i> | Shasta Daisy | 1 gal. | |
| 20 | <i>Nepeta 'Blue Wonder'</i> | Catmint | 1 gal. | |
| 75 | <i>Salvia nemorosa 'Caradonna'</i> | Caradonna Meadow Sage | 1 gal. | |
| 250 | <i>Sporobolus heterolepis</i> | Prarie Dropseed | 1 gal. | |
| 25 BULBS | | | | |
| 25 | <i>Allium 'Gladiator'</i> | Allium | Bulb | |
| 2500 | <i>Narcissus naturalizing mix</i> | Naturalizing daffodils | Bulb | |



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 JOB NO.: 20035
 DRAWN BY: JS PROJ. MANAGER: KA
 DATE: 01.10.22 SCALE:
 DRAWING TITLE
RESIDENCE TYPICAL PLAN - LANDSCAPE

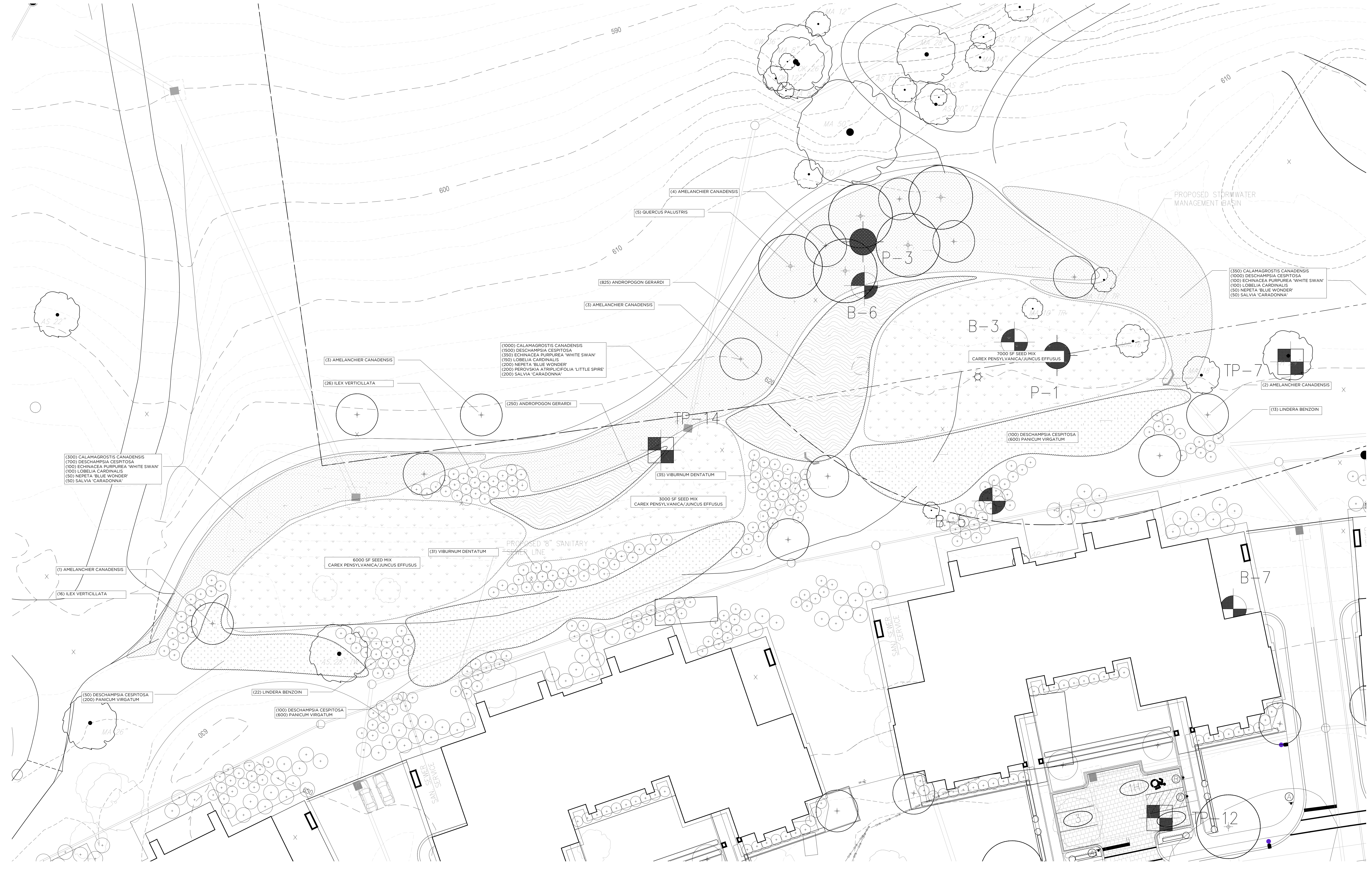
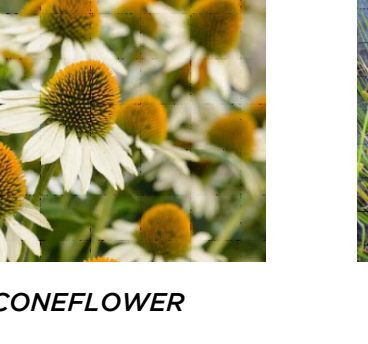
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TYPICAL RESIDENCE ENTRY LANDSCAPE PLAN

1" = 10'-0"

PLANTING SCHEDULE

| QUANTITY | BOTANICAL NAME | Detention Basin Planting COMMON NAME | SIZE | REMARKS |
|----------|--|---|--------|----------------------------------|
| 18 | TREES | | | |
| 13 | <i>Amelanchier canadensis</i> | Serviceberry | 7'-8' | Multistem |
| 5 | <i>Quercus palustris</i> | Pin Oak | 2' cal | Full shape |
| 143 | SHRUBS | | | |
| 42 | <i>Ilex verticillata</i> | Winterberry | 3'-4' | |
| 35 | <i>Lindera benzoin</i> | Spicebush | 3 gal | |
| 66 | <i>Viburnum dentatum</i> | Arrowwood/Viburnum | 3 gal | Full shape |
| 6725 | PERENNIALS/GRASSES | | | |
| 1075 | <i>Andropogon gerardi</i> | Big Bluestem | 1 gal | |
| 1650 | <i>Calamagrostis 'Karl Foerster'</i> | Feather Reed Grass | 1 gal | |
| n/a | <i>Carex pennsylvanica</i> | Sedge | Seed | Basin Floor Seed Mix (16,000 sf) |
| 3450 | <i>Deschampsia cespitosa</i> | Tufted Hair Grass | 1 gal | |
| 550 | <i>Echinacea 'White Swan'</i> | Coneflower | 1 gal | |
| n/a | <i>Juncus effusus</i> | Soft Rush | Seed | Basin Floor Seed Mix (16,000 sf) |
| 350 | <i>Lobelia cardinalis</i> | Cardinal Flower | 1 gal | |
| 100 | <i>Nepeta 'Blue Wonder'</i> | Catmint | 1 gal | |
| 200 | <i>Perovskia atriplicifolia 'Little Spire'</i> | Dward Russian Sage | 1 gal | |
| 300 | <i>Salvia nemorosa 'Caradonna'</i> | Caradonna Meadow Sage | 1 gal | |



DETENTION BASIN LANDSCAPE PLAN

1/16" = 1'-0"

| # | DATE | REVISION DESCRIPTION | BY: |
|---|----------|----------------------------|-----|
| 1 | 11.23.20 | PLANNING BOARD SUBMISSION | KA |
| 2 | 01.11.21 | ARB SUBMISSION | KA |
| 3 | 03.08.21 | ARB SUBMISSION | KA |
| 4 | 05.09.21 | ARB SUBMISSION | KA |
| 5 | 06.14.21 | PLANNING BOARD SUBMISSION | KA |
| 6 | 07.12.21 | PLANNING BOARD SUBMISSION | KA |
| 7 | 11.23.21 | EDIT, PROSHOP LAYOUT SCHEM | JS |
| 8 | 1.10.22 | PLANNING BOARD SUBMISSION | KA |

PHASE
SUBMITAL

PROJECT NAME
**SUMMIT CLUB
 PARTNERS LLC**

ARMONK, NY
 JOB NO: 20035
 DRAWN BY: JS PROJ. MANAGER: KA
 DATE: 01.10.22 SCALE:
 DRAWING TITLE
**DETENTION BASIN
 PLANTING PLAN**

DRAWING NO.
LS105

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REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
|---|----------|----------------------------|-----|
| 1 | 11.23.20 | PLANNING BOARD SUBMISSION | KA |
| 2 | 01.11.21 | ARB SUBMISSION | KA |
| 3 | 03.08.21 | ARB SUBMISSION | KA |
| 4 | 05.09.21 | ARB SUBMISSION | KA |
| 5 | 06.14.21 | PLANNING BOARD SUBMISSION | KA |
| 6 | 07.12.21 | PLANNING BOARD SUBMISSION | KA |
| 7 | 11.23.21 | EDIT, PROSHOP LAYOUT SCHEM | JS |
| 8 | 1.10.22 | PLANNING BOARD SUBMISSION | KA |

PHASE
SUBMITAL

PROJECT NAME
SUMMIT CLUB PARTNERS LLC

ARMONK, NY
 JOB NO: 20035
 DRAWN BY: JS PROJ. MANAGER: KA
 DATE: 01.10.22 SCALE:

DRAWING TITLE
WATER TREATMENT AREA AND SCHEMATIC COTTAGES

DRAWING NO.
LS106

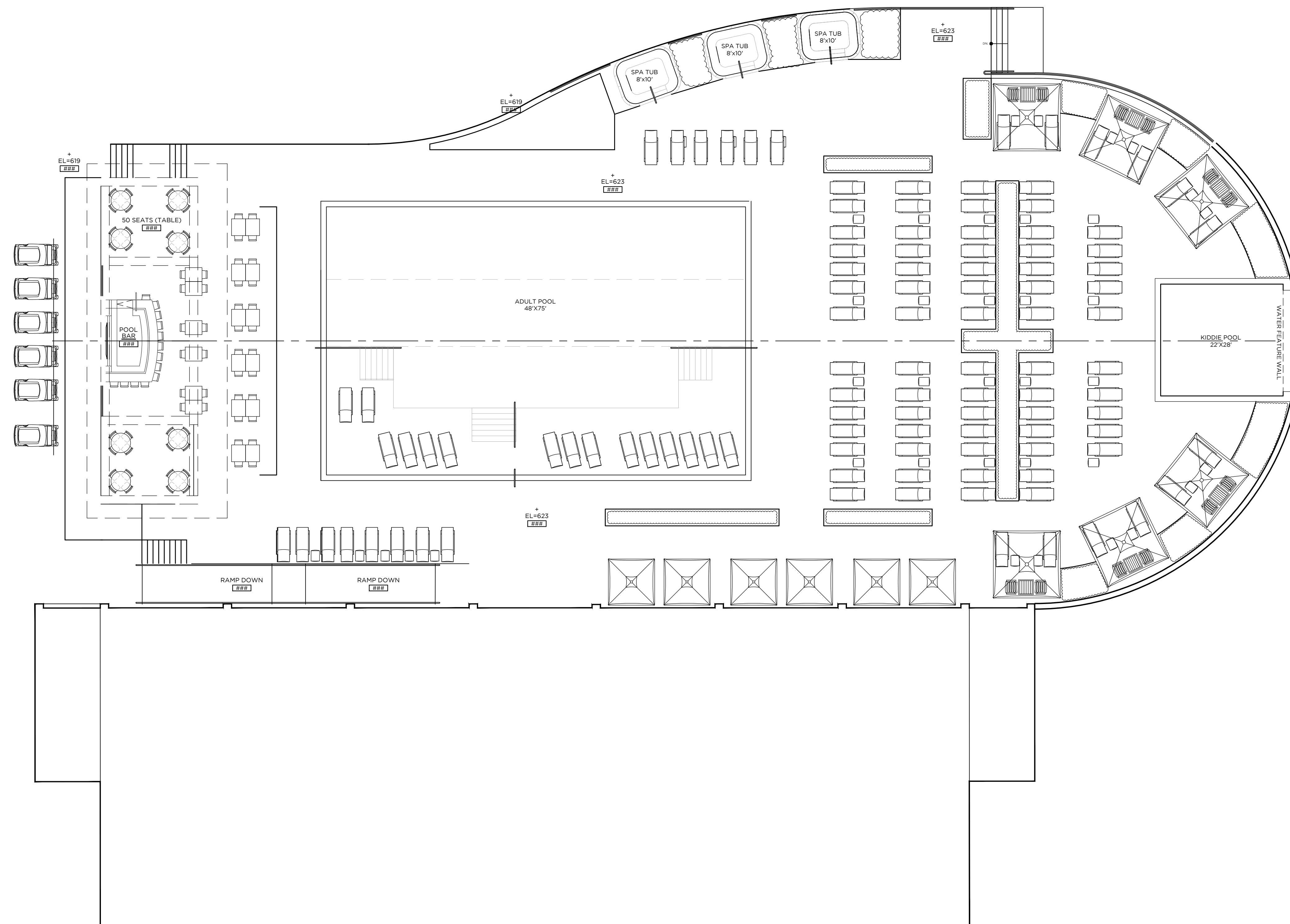
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WATER TREATMENT AND WOODLAND COTTAGES PLAN

1" = 30'-0"

CONSULTANTS

Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504



REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
|---|------|----------------------|-----|
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PHASE

**PLANNING BOARD
 SUBMISSION**

PROJECT NAME

**SUMMIT CLUB PARTNERS
 LLC**

ARMONK, NY

JOB NO.: 20035

DRAWN BY: JS, JT PROJ. MANAGER: KA

DATE: 01.10.22 SCALE: AS NOTED

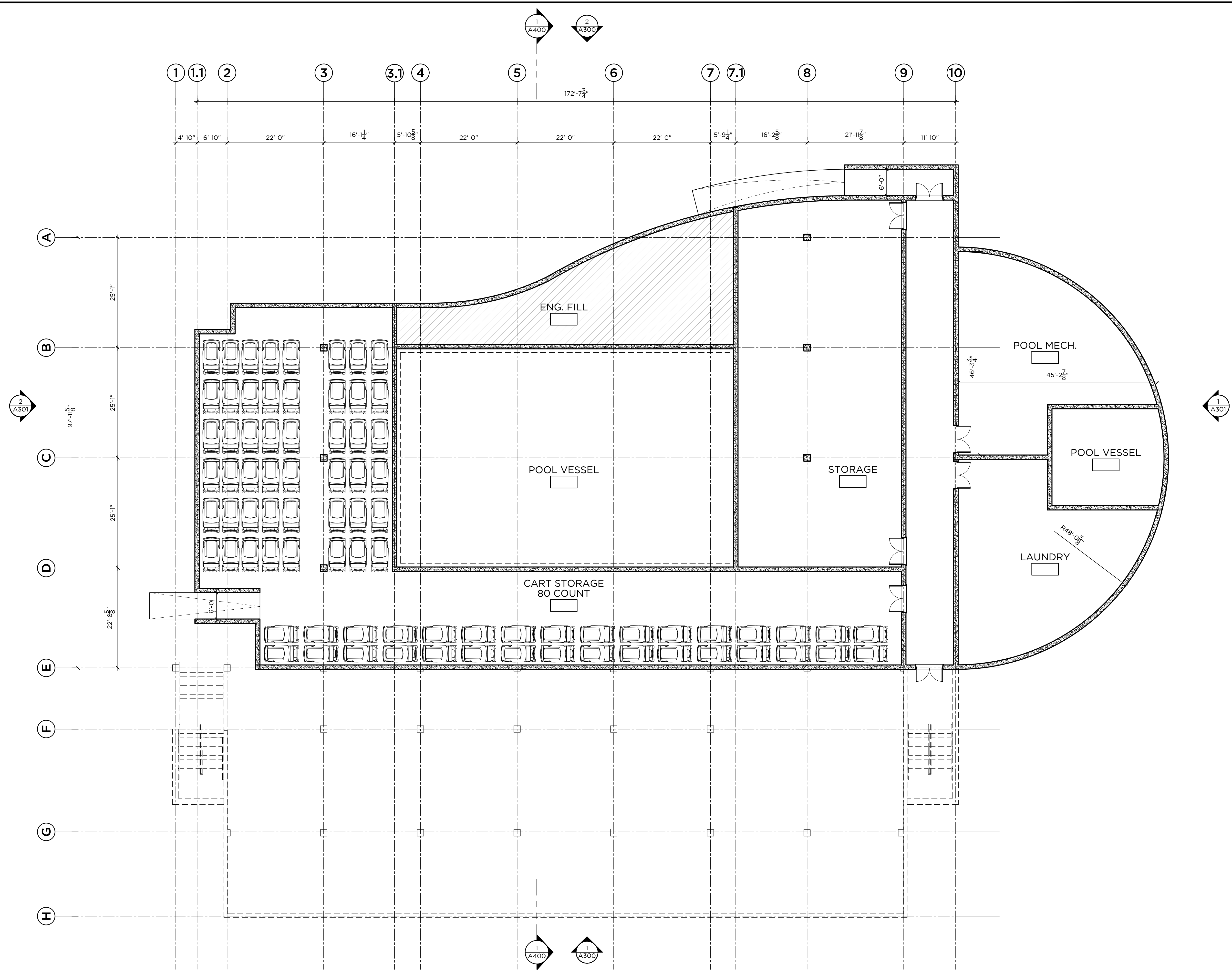
DRAWING TITLE

SITE PLAN - POOL TERRACE

DRAWING NO.

AS-100

CONSULTANTS
 Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504



1 FLOOR PLAN - VAULT LEVEL
 3/32"=1'-0"

REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
|---|------|----------------------|-----|
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PHASE
PLANNING BOARD SUBMISSION

PROJECT NAME
SUMMIT CLUB PARTNERS LLC
 ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: **AS NOTED**
 DRAWING TITLE
FLOOR PLAN - VAULT LEVEL

DRAWING NO.
A100

CONSULTANTS
 Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504

REVISIONS

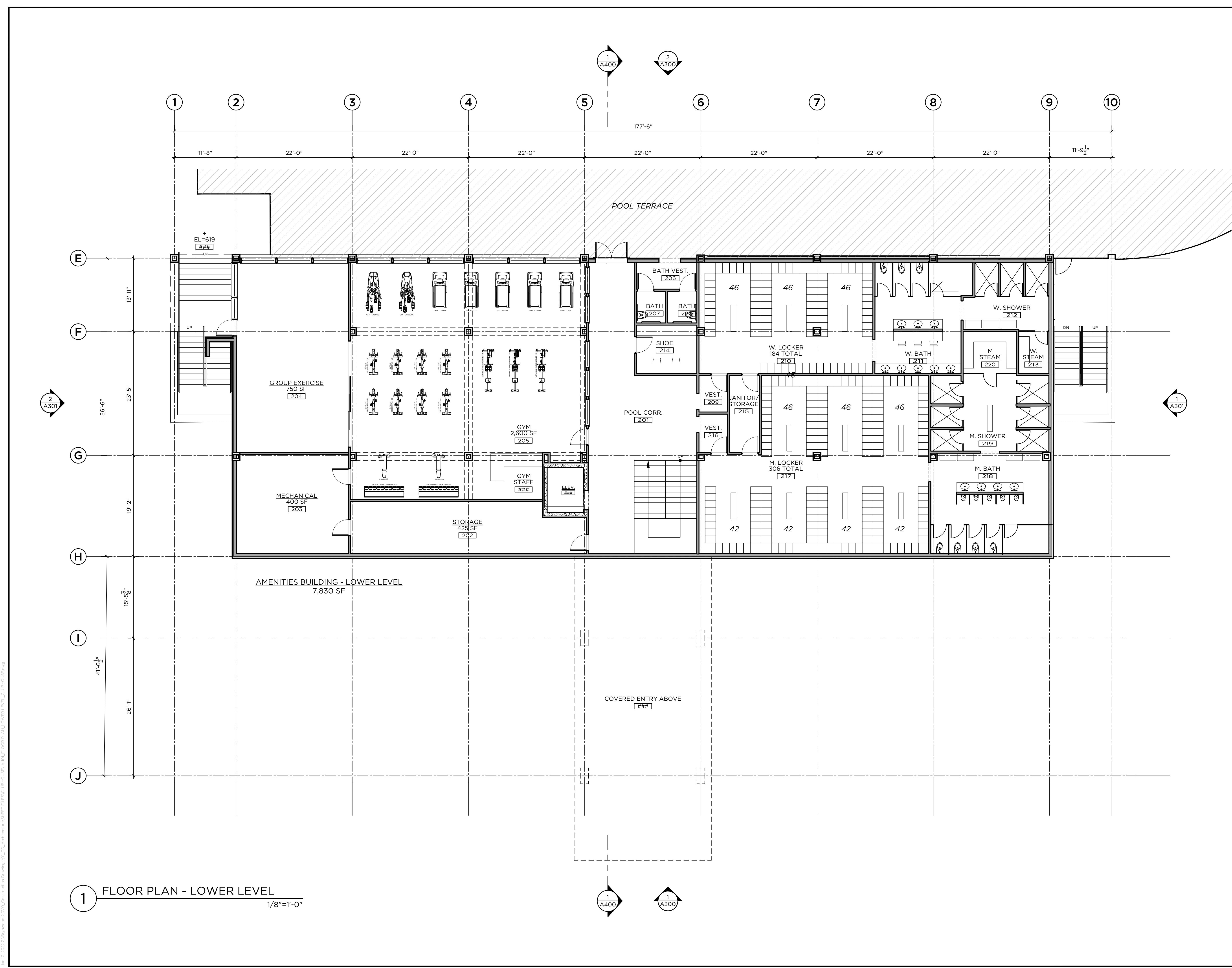
| # | DATE | REVISION DESCRIPTION | BY: |
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PHASE
PLANNING BOARD SUBMISSION

PROJECT NAME
SUMMIT CLUB PARTNERS LLC
 ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: AS NOTED
 DRAWING TITLE
FLOOR PLAN - LOWER LEVEL

DRAWING NO.
A101

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1 FLOOR PLAN - LOWER LEVEL
 1/8"=1'-0"

JAN 10, 2022 2:18pm 2022-01-10 11:00 AM LOWER LEVEL CLUBHOUSE.dwg

CONSULTANTS

Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504

REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
|---|------|----------------------|-----|
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PHASE
**PLANNING BOARD
 SUBMISSION**

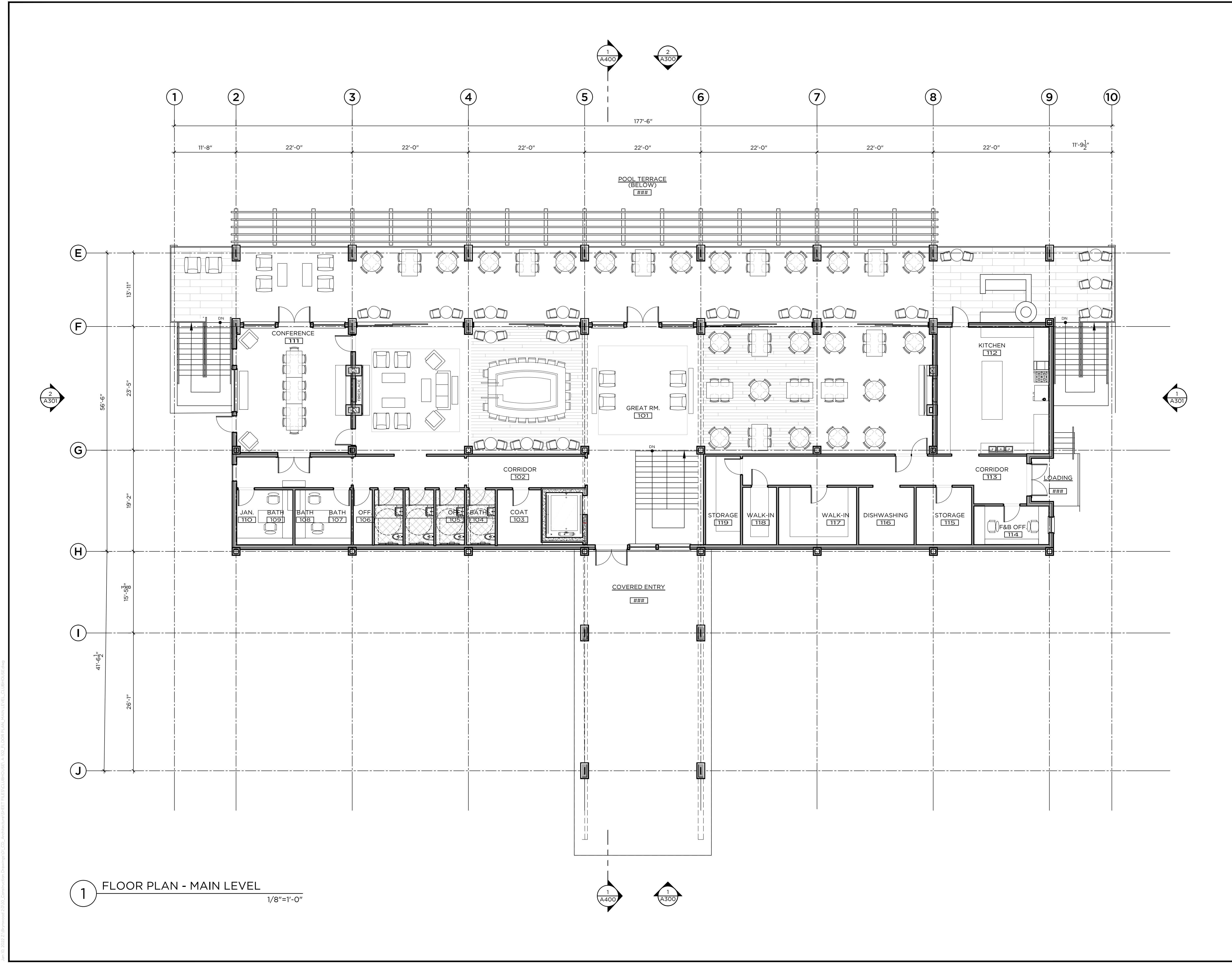
PROJECT NAME
**SUMMIT CLUB PARTNERS
 LLC**

ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: **AS NOTED**

DRAWING TITLE
FLOOR PLAN - MAIN LEVEL

DRAWING NO.
A102

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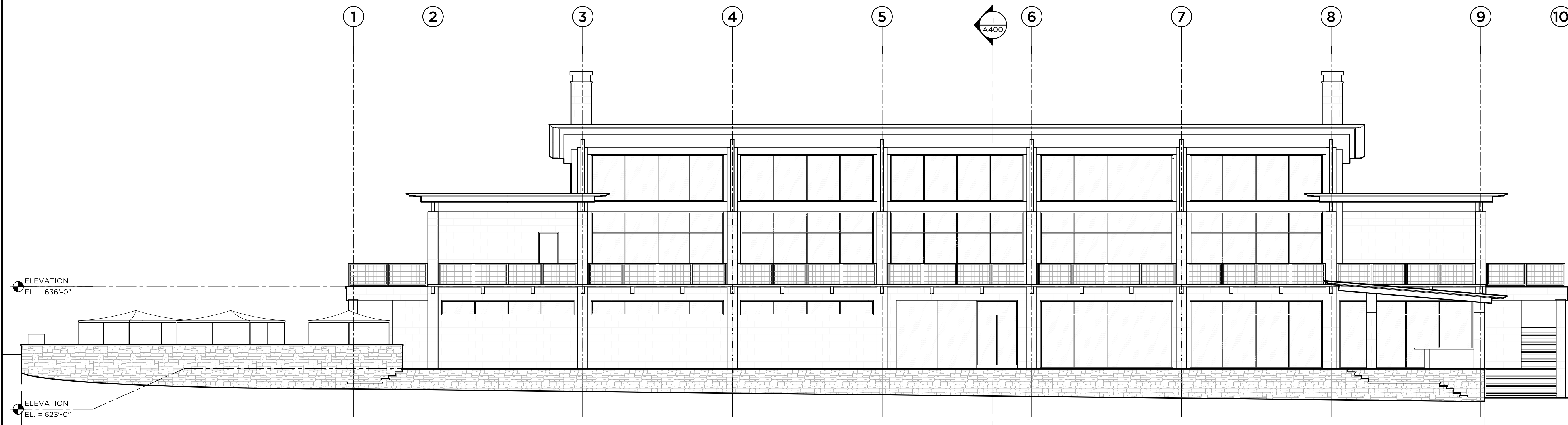


1 FLOOR PLAN - MAIN LEVEL
 1/8"=1'-0"

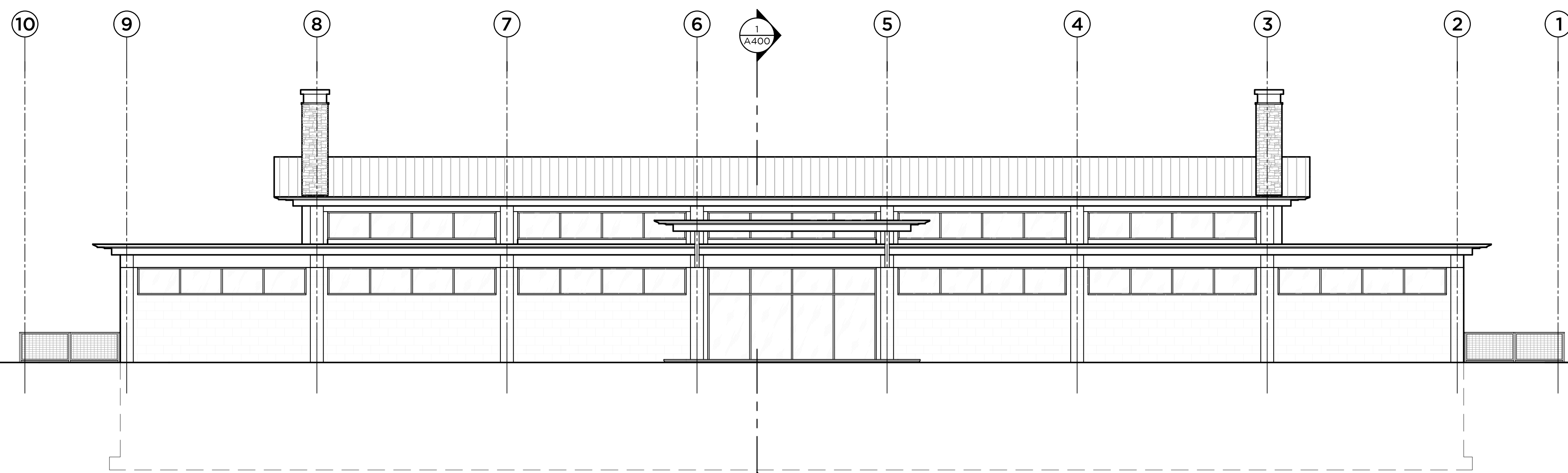
JAN 10 2022 2:18pm 2022 Constructor: Drawings\01_02_Architectural\Sheet Files\CAD\CLUBHOUSE_VA_102_FLOOR PLAN MAIN LEVEL_CLUBHOUSE.dwg

CONSULTANTS

Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504



2 NORTHEAST ELEVATION
 1/8"=1'-0"



1 SOUTHWEST ELEVATION
 1/8"=1'-0"

REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
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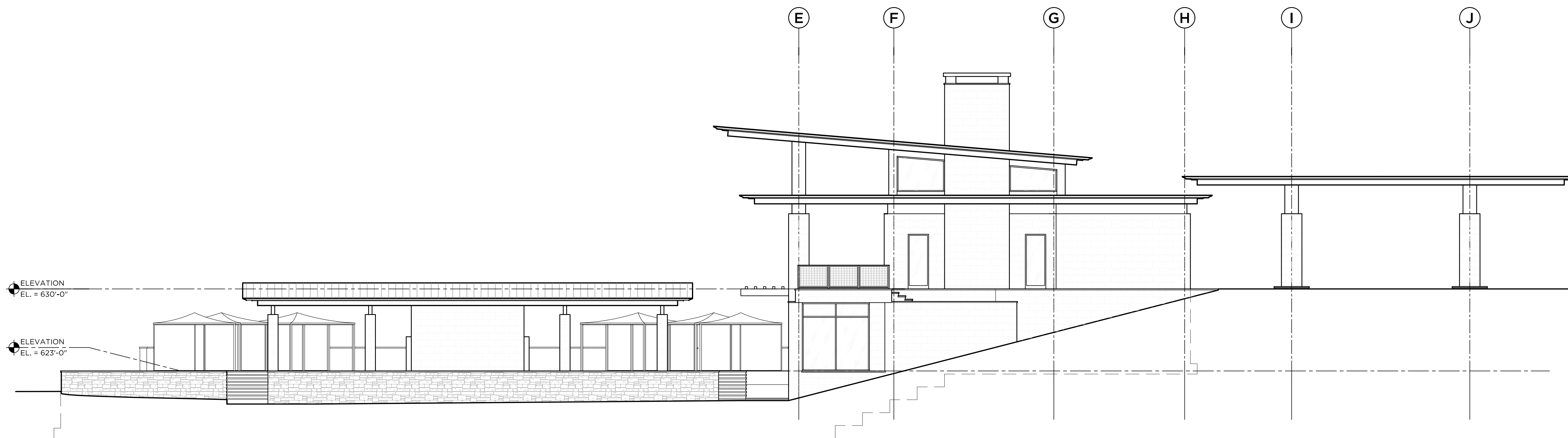
PHASE
**PLANNING BOARD
 SUBMISSION**

PROJECT NAME
**SUMMIT CLUB PARTNERS
 LLC**
 ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: **AS NOTED**
 DRAWING TITLE
BUILDING ELEVATIONS

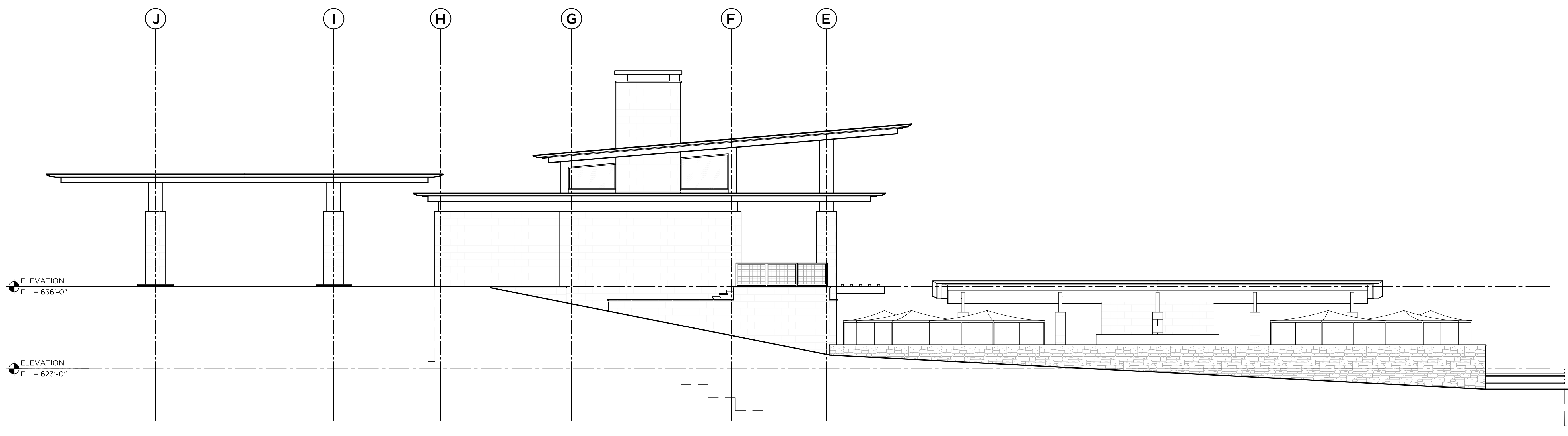
DRAWING NO.
A300

JAN 10, 2022 2:18pm 2022-01-10 10:18:00 AM C:\Users\jgranoff\OneDrive - R.S. Granoff Architects\Documents\A300 BUILDING ELEVATIONS\CLUBHOUSE.dwg

CONSULTANTS
 Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504



2 SOUTHEAST ELEVATION
 1/8"=1'-0"



1 NORTHWEST ELEVATION
 1/8"=1'-0"

| # | DATE | REVISION DESCRIPTION | BY: |
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PHASE
**PLANNING BOARD
 SUBMISSION**

PROJECT NAME
**SUMMIT CLUB PARTNERS
 LLC**
 ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: **AS NOTED**
 DRAWING TITLE
BUILDING ELEVATIONS

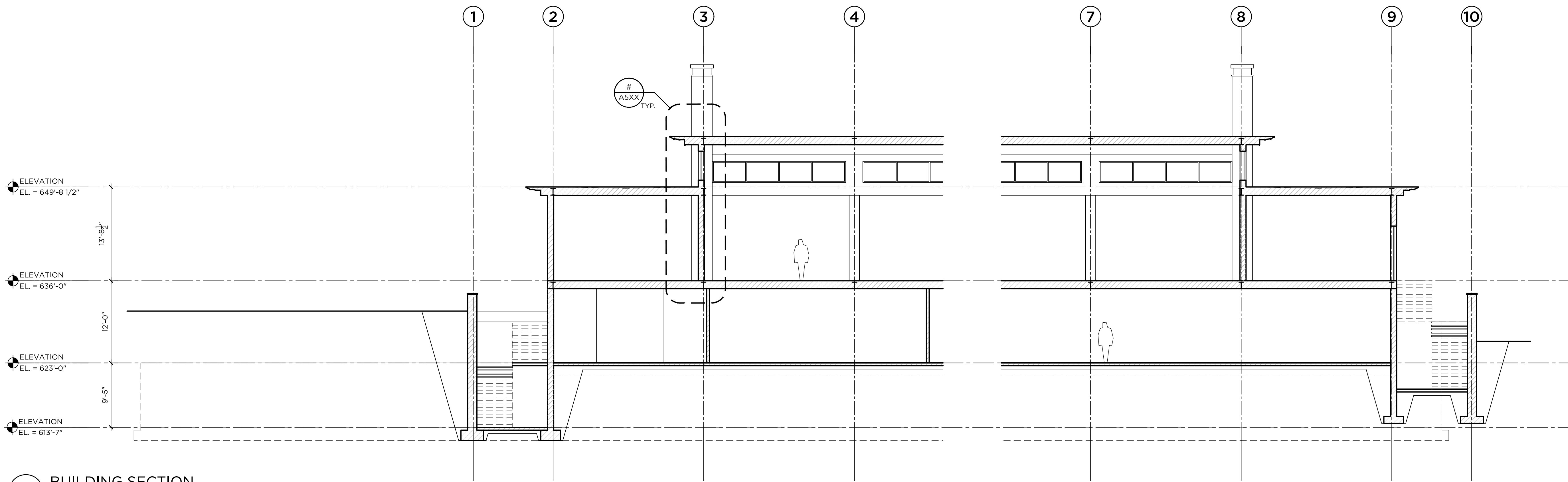
DRAWING NO.
A301

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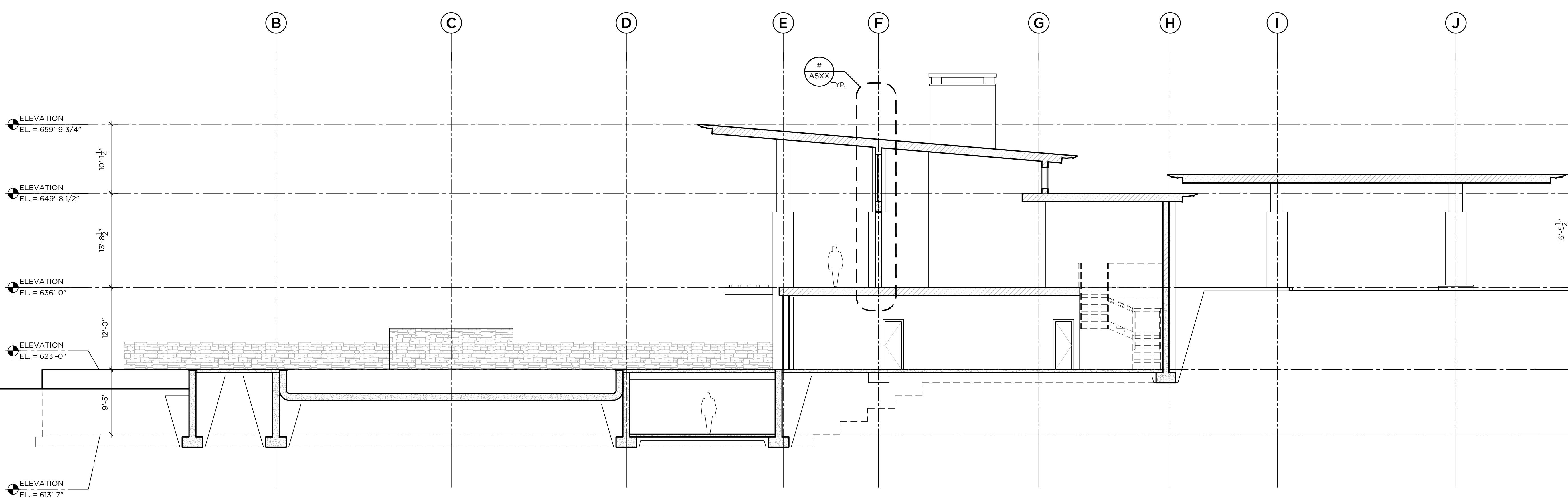
JAN 10, 2022 2:18pm 2022-01-10 10:18:00 AM C:\Users\jgranoff\OneDrive\Documents\Projects\2022\20035\20035_ARCHITECTURE\20035_ARCHITECTURE_SHEET_ELEVATIONS\20035_ARCHITECTURE_SHEET_ELEVATIONS_CUBHOUSE.dwg

CONSULTANTS

Civil:
JMC Site Development Consultants
 120 Bedford Rd.
 Armonk, NY 10504



2 BUILDING SECTION
 1/8"=1'-0"



1 BUILDING SECTION
 1/8"=1'-0"

REVISIONS

| # | DATE | REVISION DESCRIPTION | BY: |
|---|------|----------------------|-----|
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PHASE
**PLANNING BOARD
 SUBMISSION**

PROJECT NAME
**SUMMIT CLUB PARTNERS
 LLC**

ARMONK, NY
 JOB NO.: **20035**
 DRAWN BY: **JS, JT** PROJ. MANAGER: **KA**
 DATE: **01.10.22** SCALE: **AS NOTED**

DRAWING TITLE
BUILDING SECTIONS

DRAWING NO.
A400

JUN 10, 2022 2:18pm revised 20190 Contractor: Dranapak01 CAD Architect: SHEET ELEVATIONS AND BUILDING SECTIONS CLUBHOUSE.dwg

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VIEW 1



VIEW 2



VIEW 3



VIEW 4



VIEW 5



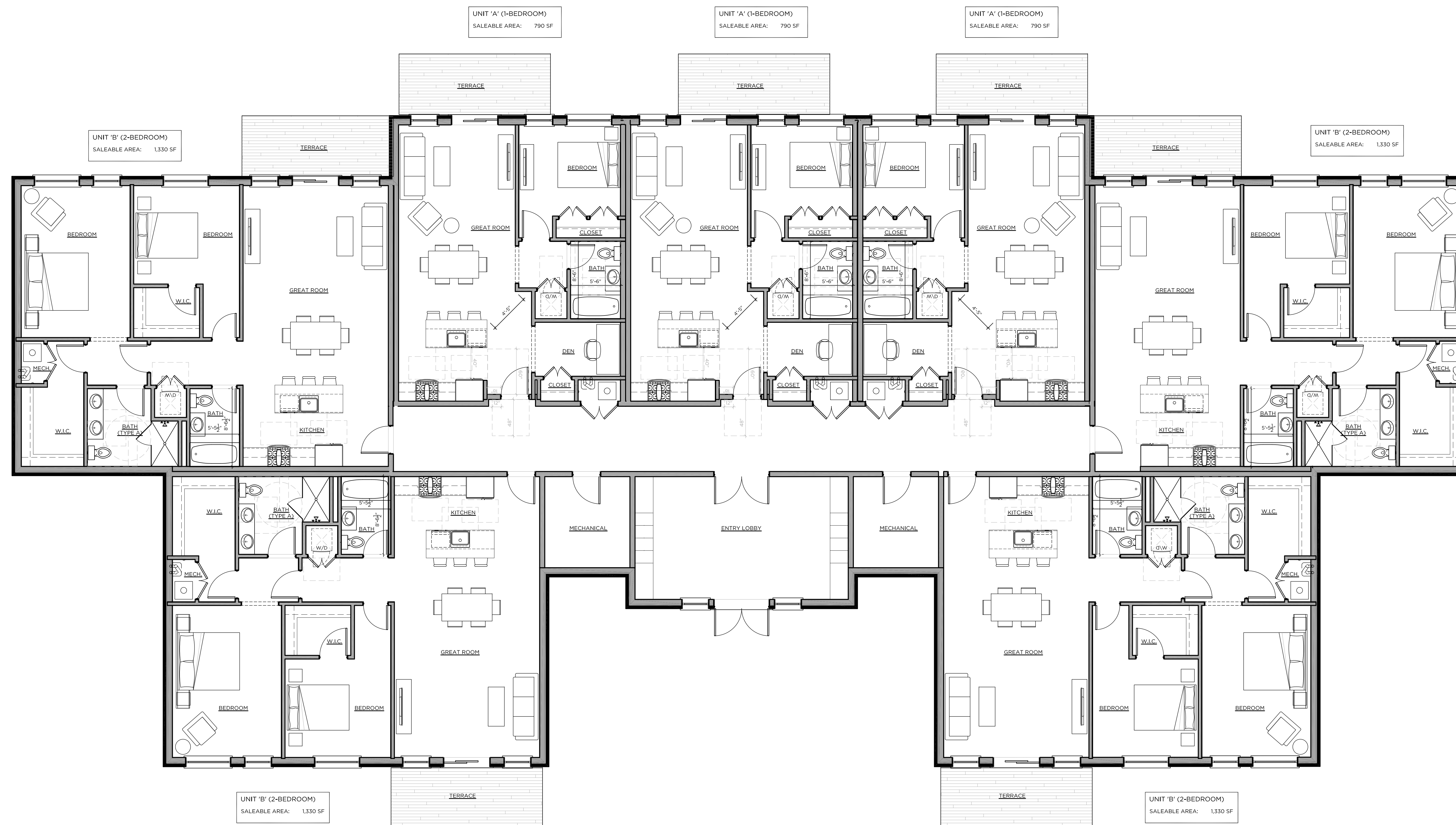
VIEW 6



VIEW 7



VIEW 8



| UNIT / BEDROOM COUNT (Revised 1-10-22) | | | |
|--|--------------|--|---|
| BUILDING 1 (3 STORY) | 12 UNITS | (3) 3 BEDROOMS & (9) 2 BEDROOMS | 27 BEDROOMS/BLDG |
| BUILDING 2 (3 STORY) | 12 UNITS | (3) 3 BEDROOMS & (9) 2 BEDROOMS | 27 BEDROOMS/BLDG |
| BUILDING 3 (2 STORY) | 9 UNITS | (2) 3 BEDROOMS & (1) 4 BEDROOM | 20 BEDROOMS/BLDG |
| BUILDING 4 (2 STORY) | 9 UNITS | (2) 3 BEDROOMS & (1) 4 BEDROOM | 20 BEDROOMS/BLDG |
| BUILDING 5 (3 STORY) | 12 UNITS | (3) 3 BEDROOMS & (9) 2 BEDROOMS | 27 BEDROOMS/BLDG |
| BUILDING 6 (3 STORY) | 12 UNITS | (3) 3 BEDROOMS & (9) 2 BEDROOMS | 27 BEDROOMS/BLDG |
| BUILDING 7 (3 STORY) | 7 AFFH UNITS | (3) 1 BEDROOMS & (4) 2 BEDROOMS | 11 BEDROOMS/BLDG |
| TOTALS | 73 UNITS | (16) 3 BEDROOMS & (50) 2 BEDROOMS & (2) 4 BEDROOM | 157 BEDROOMS |
| DENSITY UNITS | 43.6 UNITS | (16) 3 BEDROOMS = 10.6 DENSITY UNITS (50) 2 BEDROOMS = 25 DENSITY UNITS (2) 4 BEDROOMS = 2 DENSITY UNITS (3) 1 BEDROOMS = | (16/3) X 2 = 10.6 50/2 = 25 +2 (3/1) X 2 = 6 |
| DWELLING UNITS | 73 UNITS | | |

Density Unit Calculation:
 Site:
 Lot 1= 129.95872 acres
 Lot 2= 26.34421 acres
 Total Site=156.30293 acres x 43.560sf/ac = (6,808,555.6308 sf) / 133,000=511921476
 51 Density Units Available
 43.6 Density Units Proposed (COMPLIES)

Dwelling Unit Calculation:
 Site:
 Lot 1=129.95872 acres
 Lot 2=26.34421 acres
 Total Site=156.30293 acres / 1.8 Acres = 86.834961
 87 Dwelling Units Available (88 Studied in the EIS)
 73 Dwelling Units Proposed (COMPLIES)

Minimum Unit Sizes:
Market Rate Units
 Efficiency: 450 sf Min. N/A
 One-Bedroom: 700 sf Min. N/A
 Two-Bedroom: 900 sf 2,377 sf is smallest (complies)
 Three-Bedroom: 1,100 sf 2,997 sf is smallest (complies)

AFFH Units
 Efficiency: 450 sf Min. N/A
 One-Bedroom: 700 sf Min. 790 sf (complies)
 Two-Bedroom: 900 sf 1,330 sf (complies)
 Three-Bedroom: 1,100 sf N/A

| REVISIONS | | | |
|-----------|----------|-----------------------------|-----|
| # | DATE | REVISION DESCRIPTION | BY: |
| 1 | 11.23.20 | PLANNING BOARD SUBMISSION | KA |
| 2 | 01.11.21 | ARB SUBMISSION | KA |
| 3 | 03.08.21 | ARB SUBMISSION | KA |
| 4 | 05.09.21 | ARB SUBMISSION | KA |
| 5 | 06.14.21 | PLANNING BOARD SUBMISSION | KA |
| 6 | 07.12.21 | PLANNING BOARD SUBMISSION | KA |
| 7 | 11.21.21 | EDIT - PROSHOP LAYOUT SCHEM | JS |
| 8 | 1.10.22 | PLANNING BOARD SUBMISSION | KA |

PHASE
SUBMITAL

PROJECT NAME
**SUMMIT CLUB
 PARTNERS LLC**

ARMONK, NY
 JOB NO.: 20055
 DRAWN BY: JS PROJ. MANAGER: KA
 DATE: 01.10.22 SCALE: 1/8"=1'-0"

DRAWING TITLE
**AFFH BUILDING 7
 FIRST FLOOR PLAN**

DRAWING NO.

A101

CONSULTANTS

Structural:
Company Name
Street Address
City, State Phone Number

Landscape Architect:
Company Name
Street Address
City, State Phone Number

Civil:
Company Name
Street Address
City, State Phone Number

Plumbing:
Company Name
Street Address
City, State Phone Number

Mechanical:
Company Name
Street Address
City, State Phone Number

Electrical:
Company Name
Street Address
City, State Phone Number



| REVISIONS | | | |
|-----------|----------|---------------------------|-----|
| # | DATE | REVISION DESCRIPTION | BY: |
| 1 | 11.23.20 | PLANNING BOARD SUBMISSION | KA |
| 2 | 01.11.21 | ARB SUBMISSION | KA |
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PHASE
**PRELIMINARY
NOT FOR CONSTRUCTION**

PROJECT NAME
**SUMMIT CLUB
PARTNERS LLC**

ARMONK, NY
JOB NO.: 20055
DRAWN BY: EF MM PROJ. MANAGER: KA
DATE: 01.11.21 SCALE:

DRAWING TITLE
GARAGE FLOOR PLAN

DRAWING NO.
A100

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JOB NAME: SUMMIT CLUB
 APEX LIGHTING SOLUTIONS
 REFLECTANCES: N/A
 WORKPLANE/CALC PLANE: @ GRADE
 MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
 APPS: LED
 SALES: TM

| Qty | Label | Arrangement | Lumens | Input Watts | LLF | BUG Rating | Description |
|-----|-------|-------------|--------|-------------|-------|------------|---|
| 7 | SL2 | SINGLE | 11518 | 86.8 | 0.850 | B2-U0-G2 | U.S. ARCH RZR-PLED-II-40LED-700MA-WV-VOLT-FINISH MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |
| 3 | SL2HS | SINGLE | 8423 | 86.8 | 0.850 | B1-U0-G2 | U.S. ARCH RZR-PLED-II-40LED-700MA-WV-VOLT-FINISH-HS-PLED MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |
| 3 | SL3 | SINGLE | 10880 | 86.8 | 0.850 | B2-U0-G3 | U.S. ARCH RZR-PLED-III-W-40LED-700MA-WV-VOLT-FINISH MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |
| 5 | SL4 | SINGLE | 10595 | 86.8 | 0.850 | B2-U0-G3 | U.S. ARCH RZR-PLED-IV-FT-W-40LED-700MA-WV-VOLT-FINISH MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |
| 10 | SL5 | SINGLE | 11920 | 86.8 | 0.850 | B4-U0-G2 | U.S. ARCH RZR-PLED-VSQ-M-40LED-700MA-WV-VOLT-FINISH MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |

| Label | Grid Z | Avg | Max | Min | Avg/Min | Max/Min |
|-------|--------|------|-----|-----|---------|---------|
| SITE | 0 | 0.39 | 4.7 | 0.0 | N.A. | N.A. |



GENERAL DISCLAIMER:
 Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to variations in calculation methods, lighting products, unmodeled performance, measurement techniques and field conditions such as voltage and temperature variations. These data should be used to generate the attached calculations as a guide only. For proper comparison of alternatives to layouts, it is essential that you insert all outputs into current Light Loss Factors.

NOTE TO REVIEWER:
 Total Light Loss Factor (LLF) applied at time of design is determined by applying the Light Loss Factor (LLF) based on IES recommended values and a Ballast Factor (BF) from current ballast specifications. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately represent actual results.

| REVISIONS |
|-----------------------|
| REV. X XX-XX-05 XXXXX |



PROJECT TITLE: SUMMIT CLUB
 20-30 BEAVER ROAD
 WETHERSFIELD, CT 06099
 TELEPHONE 860.632.8766
 FACSIMILE 860.632.8236
 www.apexlighting.com

DRAWING TITLE: EXTERIOR LIGHTING PHOTOMETRIC CALCULATION

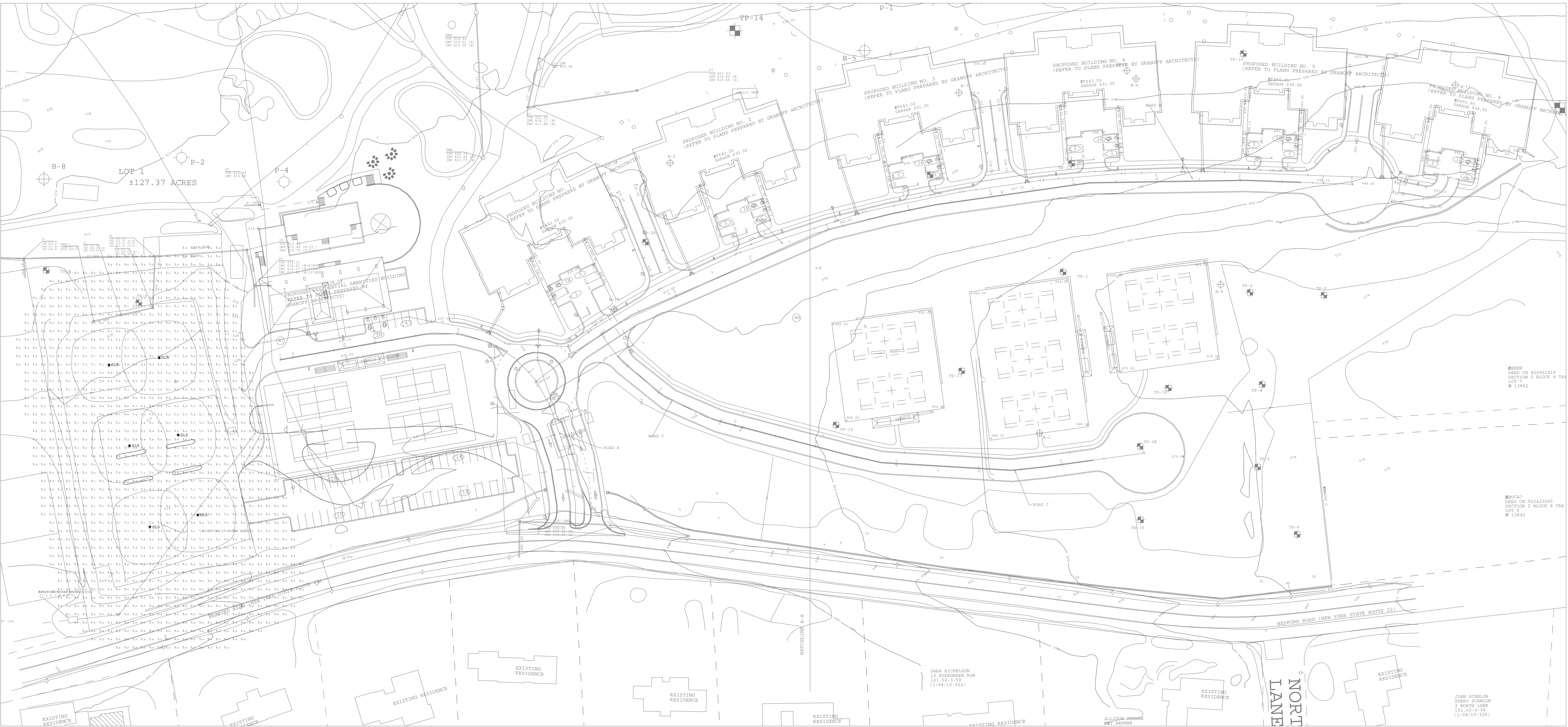
SCALE: 1"=40'-0"
 DATE: 6/11/21
 DRAWN BY: LED
 SHEET: SL-1A

FILE NAME: SL-1A SUMMIT CLUB 06-11-2021 LED.dwg

JOB NAME: SUMMIT CLUB
 APEX LIGHTING SOLUTIONS
 REFLECTANCES: N/A
 WORKPLANE/CALC PLANE: @ GRADE
 MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
 APPS: LED
 SALES: TM

| Qty | Label | Arrangement | Lumens | Input Watts | LLF | BUG Rating | Description |
|-----|-------|-------------|--------|-------------|-------|------------|---|
| 6 | SL5 | SINGLE | 11920 | 86.8 | 0.850 | B4-U0-G2 | U.S. ARCH RZR-PLD-VSQ-M-40LED-700MA-WV-VOLT-FINISH MOUNTED TO 18FT POLE @ 18FT AFG TO BOF |

| Label | Grid Z | Avg | Max | Min | Avg/Min | Max/Min |
|-------------------|--------|------|-----|-----|---------|---------|
| SITE | 0 | 0.47 | 3.0 | 0.0 | N.A. | N.A. |
| LARGE PARKING LOT | | 1.29 | 2.9 | 0.1 | 12.90 | 29.00 |



GENERAL DISCLAIMER:
 Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to variations in calculation methods, field conditions, unmodeled performance, measurement techniques and field conditions such as voltage and temperature variations. These data may be generated for informational purposes only. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately represent actual results.
 For proper comparison of electronic layouts, it is essential that you insert all occupied use correct Light Loss Factors.

| REVISIONS |
|-----------------------|
| REV. X XX-XX-05 XXXXX |

APEX LIGHTING SOLUTIONS
 THE POINT WHERE ALL SCENARIOS MEET CONVERSE

20-30 BEAVER ROAD
 WETHERSFIELD, CT 06099
 TELEPHONE 860.632.8766
 FACSIMILE 860.632.8236
 www.apexlight.com

PROJECT TITLE: SUMMIT CLUB

DRAWING TITLE: EXTERIOR LIGHTING PHOTOMETRIC CALCULATION

SCALE: 1"=40'-0"

DATE: 6/14/21

DRAWN BY: LED

SHEET: SL-2

FILE NAME: SL-2 SUMMIT CLUB 06-14-2021 LED.dwg

SOLID STATE AREA LIGHTING

RAZAR SERIES-LED

SPECIFICATIONS

PROJECT NAME: _____

PROJECT TYPE: _____

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance $\leq \pm .002"$) to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/ INTEGRATED ARM

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVER(S)

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS

High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

AMBER LED's

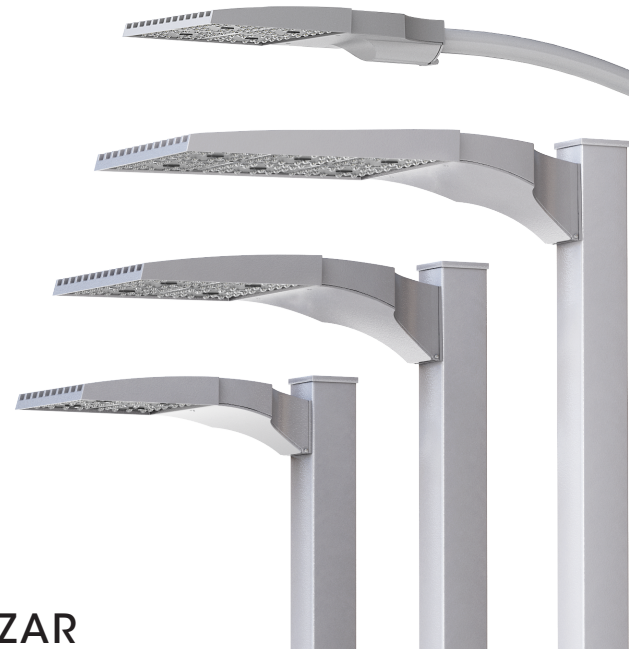
PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. **TRA** (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

MAST ARM FITTER/ELECTRICAL HOUSING

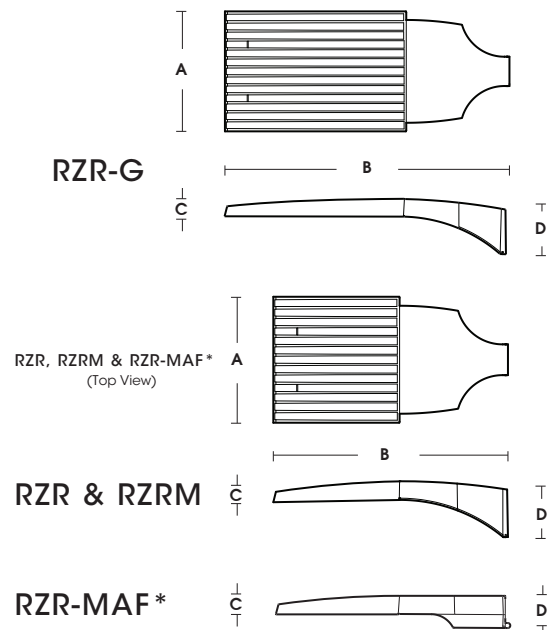
Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, +1.5°, +1.5 or +3° up from the horizontal. All hardware is stainless steel.



RAZAR

(MODELS: RZRM, RZR, RZR-G & RZR-MAF*)

PATENT PENDING



| FIXTURE | A | B | C | D |
|----------------|-----------------|-----------------|---------------|----------------|
| RZR-G | 15" 381mm | 36.5" 927mm | 3" 76mm | 7" 187mm |
| RZR | 14.75" 375mm | 28.25" 718mm | 2.75" 70mm | 6.5" 165mm |
| RZRM | 11.5" 292mm | 22" 559mm | 2.5" 64mm | 5.25" 133mm |
| RZR-MAF | 15" 381mm | 28.25" 724mm | 2.5" 64mm | 4" 102mm |

*DLC PENDING AS OF 7/19



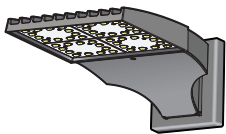
2020248



RAZAR SERIES-LED

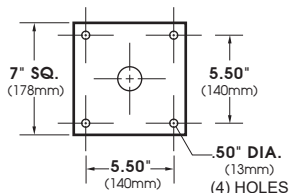
S P E C I F I C A T I O N S

WALLMOUNT

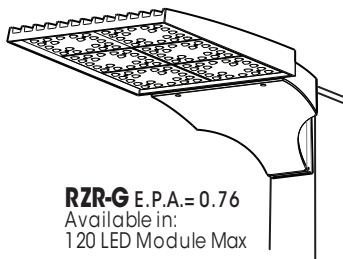


CAST ALUMINUM ARM AND WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

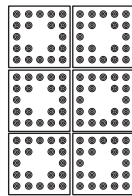
WALL PLATE



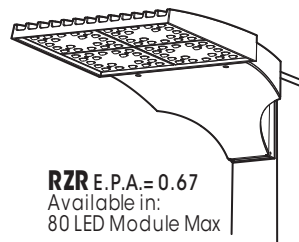
PLED® MODULES



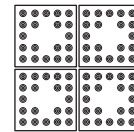
RZR-G E.P.A.= 0.76
Available in:
120 LED Module Max



120 LED Module

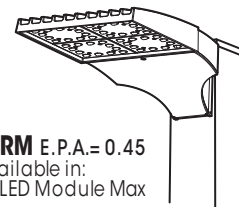
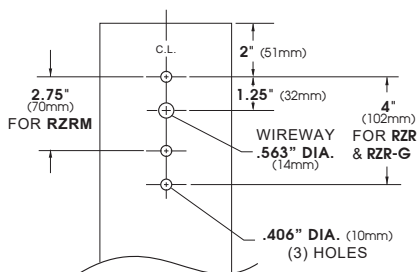


RZR E.P.A.= 0.67
Available in:
80 LED Module Max

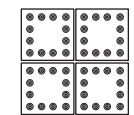


80 LED Module

POLE DRILLING TEMPLATE



RZRM E.P.A.= 0.45
Available in:
48 LED Module Max



48 LED Module

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/277/RAL-8019-S

S P E C / O R D E R I N G I N F O R M A T I O N

| MODEL | OPTICS | LED MODE | VOLTAGE | FINISH | OPTIONS |
|---|--|---|--|---|---|
| MODEL | OPTICS | LED MODE | VOLTAGE | FINISH | OPTIONS |
| <input type="checkbox"/> RZR-G | <input type="checkbox"/> TYPE II PLED-II <input type="checkbox"/> TYPE II FRONT ROW PLED-II-FR | RZR-G <input type="checkbox"/> 120LED <input type="checkbox"/> 350mA <input type="checkbox"/> NW (4000K)* <input type="checkbox"/> 80LED <input type="checkbox"/> 525mA <input type="checkbox"/> CW (5000K) <input type="checkbox"/> 700mA ² <input type="checkbox"/> WW (3000K) <input type="checkbox"/> 1050mA ² | <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 | STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T | <input type="checkbox"/> HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR HL5W <input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD ... HS-PLED <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) ... PC+V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ... TPR <input type="checkbox"/> 7-PIN TWIST LOCK RECEPTACLE ONLY ... TPR7 <input type="checkbox"/> SINGLE FUSE (120V, 277V, 347V) ... SF <input type="checkbox"/> DOUBLE FUSE (208V, 240V, 480V) ... DF <input type="checkbox"/> STEP DIM MOTION SENSOR (PROGRAMMED 50/100) MS-F211 <input type="checkbox"/> REMOTE MOTION SENSOR CONFIGURATOR MS-FC10 |
| <input type="checkbox"/> RZR | <input type="checkbox"/> TYPE II MEDIAN ILLUMINATOR PLED-II-ML | RZR <input type="checkbox"/> 80LED <input type="checkbox"/> 40LED | | <input type="checkbox"/> GREEN RAL-6005-T | |
| <input type="checkbox"/> RZR-MAF ¹ | <input type="checkbox"/> TYPE III MED. PLED-III-M <input type="checkbox"/> TYPE III WIDE PLED-III-W | RZR <input type="checkbox"/> 80LED <input type="checkbox"/> 40LED | | <input type="checkbox"/> GREEN RAL-6005-T | |
| <input type="checkbox"/> RZRM | <input type="checkbox"/> TYPE IV PLED-IV <input type="checkbox"/> TYPE IV PLED-IV-FT <input type="checkbox"/> TYPE V NARROW PLED-VSQ-N <input type="checkbox"/> TYPE V MED. PLED-VSQ-M <input type="checkbox"/> TYPE V WIDE PLED-VSQ-W | RZRM <input type="checkbox"/> 48LED <input type="checkbox"/> 24LED | | FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9005-S) CONSULT FACTORY FOR CUSTOM COLORS | |

NOTES:
1 - DLC PENDING AS OF 7/19

NOTES:
2 - 700mA and 1050mA NOT FOR USE WITH TRA LED'S
3 - NARROW BAND AMBERS HAVE NO DEFINABLE COT EQUIVALENT
4 - AVAILABLE IN 350mA & 525mA DRIVE CURRENTS ONLY



Approximate Average Lumens - 4000K (Lumens median of all distributions)

| | 350mA | | | 525mA | | | 700mA | | | 1050mA | | |
|-----|-------|--------|---------|-------|--------|---------|-------|--------|---------|--------|--------|----------|
| | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. | Watts | Lumens | HID Eq. |
| 24 | 28 | 3541 | 50 | 41 | 5058 | 70-100 | 53 | 6567 | 100 | 81 | 8773 | 150-175 |
| 40 | 45 | 5997 | 70-100 | 66 | 8653 | 100-150 | 87 | 10995 | 175 | 134 | 14647 | 200-250 |
| 48 | 55 | 7046 | 100 | 81 | 10018 | 150-175 | 105 | 12600 | 200 | 160 | 17566 | 250 |
| 80 | 87 | 11622 | 175-200 | 131 | 16736 | 200-250 | 174 | 21235 | 400 | 266 | 28190 | 450-575 |
| 120 | 127 | 17405 | 250 | 195 | 24860 | 450 | 260 | 31592 | 575-750 | 396 | 43323 | 750-1000 |

| LED COUNT | SOURCE TYPE | SOURCE | INITIAL LUMENS - 4000K CCT | INITIAL LUMENS - 3000K CCT | INITIAL LUMENS - 5000K CCT | L70 GREATER THAN (HR) | STARTING TEMP. | SYSTEM WATTS | VOLTS | MAX INPUT AMPS |
|--------------|-------------|----------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|------------|----------------|
| 24 | LED | 24 PLED® Optical Module - 350mA | 3,298 - 3,784 | 3,133 - 3,595 | 3,463 - 3,973 | 60,000+ | -20°F | 29 | 120 277 | 0.24 0.10 |
| 24 | LED | 24 PLED® Optical Module - 525mA | 4,711 - 5,405 | 4,475 - 5,135 | 4,947 - 5,675 | 60,000+ | -20°F | 42 | 120 277 | 0.34 0.15 |
| 24 | LED | 24 PLED® Optical Module - 700mA | 6,023 - 6,911 | 5,722 - 6,565 | 6,324 - 7,256 | 60,000+ | -20°F | 56 | 120 277 | 0.45 0.20 |
| 24 | LED | 24 PLED® Optical Module - 1050mA | 8,171 - 9,375 | 7,762 - 8,906 | 8,580 - 9,844 | 60,000+ | -20°F | 82 | 120 277 | 0.68 0.30 |
| 40 | LED | 40 PLED® Optical Module - 350mA | 5,585 - 6,408 | 5,306 - 6,088 | 5,864 - 6,729 | 60,000+ | -20°F | 43 | 120 277 | 0.38 0.17 |
| 40 | LED | 40 PLED® Optical Module - 525mA | 8,059 - 9,246 | 7,656 - 8,784 | 8,462 - 9,709 | 60,000+ | -20°F | 65 | 120 277 | 0.55 0.24 |
| 40 | LED | 40 PLED® Optical Module - 700mA | 10,240 - 11,749 | 9,728 - 11,162 | 10,752 - 12,337 | 60,000+ | -20°F | 87 | 120 277 | 0.73 0.32 |
| 40 | LED | 40 PLED® Optical Module - 1050mA | 13,642 - 15,652 | 12,960 - 14,870 | 14,324 - 16,435 | 60,000+ | -20°F | 128 | 120 277 | 1.12 0.49 |
| 48 | LED | 48 PLED® Optical Module - 350mA | 6,562 - 7,529 | 6,234 - 7,153 | 6,890 - 7,909 | 60,000+ | -20°F | 53 | 120 277 | 0.46 0.20 |
| 48 | LED | 48 PLED® Optical Module - 525mA | 9,330 - 10,705 | 8,864 - 10,170 | 9,797 - 11,240 | 60,000+ | -20°F | 79 | 120 277 | 0.68 0.29 |
| 48 | LED | 48 PLED® Optical Module - 700mA | 11,735 - 13,464 | 11,148 - 12,791 | 12,322 - 14,137 | 60,000+ | -20°F | 106 | 120 277 | 0.88 0.38 |
| 48 | LED | 48 PLED® Optical Module - 1050mA | 16,360 - 18,771 | 15,542 - 17,832 | 17,178 - 19,709 | 60,000+ | -20°F | 160 | 120 277 | 1.33 0.58 |
| RZR | | | | | | | | | | |
| 80 | LED | 80 PLED® Optical Module - 350mA | 10,824 - 12,419 | 10,283 - 11,798 | 11,365 - 13,040 | 60,000+ | -20°F | 86 | 120 277 | 0.75 0.33 |
| 80 | LED | 80 PLED® Optical Module - 525mA | 15,587 - 17,884 | 14,808 - 16,990 | 16,366 - 18,778 | 60,000+ | -20°F | 130 | 120 277 | 1.10 0.48 |
| 80 | LED | 80 PLED® Optical Module - 700mA | 19,767 - 22,680 | 18,779 - 21,546 | 20,755 - 23,814 | 60,000+ | -20°F | 174 | 120 277 | 1.45 0.63 |
| 80 | LED | 80 PLED® Optical Module - 1050mA | 26,255 - 30,124 | 24,942 - 28,618 | 27,568 - 31,630 | 60,000+ | -20°F | 257 | 120 277 | 2.22 0.96 |
| RZR-G | | | | | | | | | | |
| 80 | LED | 80 PLED® Optical Module - 350mA | 10,950 - 12,564 | 10,403 - 11,936 | 11,498 - 13,192 | 60,000+ | -20°F | 87 | 120 277 | 0.75 0.33 |
| 80 | LED | 80 PLED® Optical Module - 525mA | 15,735 - 18,054 | 14,948 - 17,151 | 16,522 - 18,957 | 60,000+ | -20°F | 129 | 120 277 | 1.10 0.48 |
| 80 | LED | 80 PLED® Optical Module - 700mA | 20,074 - 23,032 | 19,071 - 21,881 | 21,078 - 24,184 | 60,000+ | -20°F | 174 | 120 277 | 1.45 0.63 |
| 80 | LED | 80 PLED® Optical Module - 1050mA | 27,651 - 31,725 | 26,268 - 30,139 | 29,033 - 33,311 | 60,000+ | -20°F | 266 | 120 277 | 2.22 0.96 |



| LED COUNT | SOURCE TYPE | SOURCE | INITIAL LUMENS - 4000K CCT | INITIAL LUMENS - 3000K CCT | INITIAL LUMENS - 5000K CCT | L70 GREATER THAN (HR) | STARTING TEMP. | SYSTEM WATTS | VOLTS | MAX INPUT AMPS |
|-----------|-------------|-----------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|------------|----------------|
| 120 | LED | 120 PLED® Optical Module - 350mA | 16,211 - 18,599 | 15,400 - 17,669 | 17,021 - 19,529 | 60,000+ | -20°F | 130 | 120 277 | 1.06 0.46 |
| 120 | LED | 120 PLED® Optical Module - 525mA | 23,154 - 26,566 | 21,996 - 25,238 | 24,312 - 27,894 | 60,000+ | -20°F | 192 | 120 277 | 1.63 0.70 |
| 120 | LED | 120 PLED® Optical Module - 700mA | 29,424 - 33,760 | 27,953 - 32,072 | 30,895 - 35,448 | 60,000+ | -20°F | 260 | 120 277 | 2.17 0.94 |
| 120 | LED | 120 PLED® Optical Module - 1050mA | 40,350 - 46,296 | 38,333 - 43,981 | 42,368 - 48,611 | 60,000+ | -20°F | 398 | 120 277 | 3.33 1.43 |

- NOTES:**
1. Max Input Amps is the highest of starting, operating, or open circuit currents.
 2. Lumen values for LED Modules vary according to the distribution type. 80LED array appears in both the RZR and RZR-G models.
 3. System Watts includes the source watts and all driver components.
 4. Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use surge suppressor supplied with luminaire.
Note: Surge suppressors are considered a perishable device.
 5. L70(10K) – TM-21 6x rule applied.

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



**PRELIMINARY STORMWATER POLLUTION
PREVENTION PLAN**

***THE SUMMIT CLUB AT
ARMONK***

**568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504**

*Applicant/Operator/
Owner:* **Summit Club Partners, LLC
c/o Mr. Jeff Mendell
(203) 813-3264**

Prepared by:



JMC Project 20101

Draft: 06/14/2021
Revised: 01/10/2022

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APPENDICES

| <u>FIGURES</u> | <u>DESCRIPTION</u> |
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- | | |
|----|-------------------|
| I. | Site Location Map |
|----|-------------------|

APPENDIX DESCRIPTION

- | | |
|----|---|
| A. | Existing & Proposed Hydrologic Calculations |
| B. | NYSDEC Stormwater Sizing Calculations |
| C. | Soil Testing Data |
| D. | Temporary & Permanent Erosion and Sediment Control Inspection and Maintenance Checklist |
| E. | Contractor's Certification |
| F. | Temporary Sediment Basin Design Data Sheet |
| G. | Drawings |
| | DA-1 "Existing Drainage Area Map" |
| | DA-2 "Proposed Drainage Area Map" |

REFERENCED DRAWINGS FOR SWPPP DESIGN AND DETAILS

JMC SITE PLANS

| <u>Dwg. No.</u> | <u>Title</u> | <u>Rev. No./Date</u> |
|------------------------|---------------------------------|-----------------------------|
| C-000 | Cover Sheet | 01/10/2022 |
| C-010 | Overall Existing Conditions | 01/10/2022 |
| C-011 | Existing Conditions Map (South) | 01/10/2022 |
| C-012 | Existing Conditions Map (North) | 01/10/2022 |
| C-020 | Site Demolition Plan (South) | 01/10/2022 |
| C-021 | Site Demolition Plan (North) | 01/10/2022 |
| C-022 | Site Tree Removal Table | 01/10/2022 |
| C-100A | Overall Site Layout Plan | 01/10/2022 |
| C-100 | Site Layout Plan (South) | 01/10/2022 |
| C-101 | Site Layout Plan (North) | 01/10/2022 |
| C-102 | Fire Truck Access Plan | 01/10/2022 |
| C-200 | Site Grading Plan (South) | 01/10/2022 |
| C-201 | Site Grading Plan (North) | 01/10/2022 |
| C-202 | Road Profiles Plan | 01/10/2022 |
| C-300 | Utilities Plan (South) | 01/10/2022 |
| C-301 | Utilities Plan (North) | 01/10/2022 |
| C-302 | Sanitary Profiles | 01/10/2022 |
| C-303 | Water Profiles | 01/10/2022 |
| C-304 | Storm Profiles | 01/10/2022 |
| C-400 | SE Plan (South) | 01/10/2022 |
| C-401 | SE Plan (North) | 01/10/2022 |
| C-900 | Construction Details | 01/10/2022 |
| C-901 | Construction Details | 01/10/2022 |
| C-902 | Construction Details | 01/10/2022 |
| C-903 | Construction Details | 01/10/2022 |

I. INTRODUCTION

This Stormwater Pollution Prevention Plan has been prepared for the 156.30 acre Summit Club at Armonk site, located in the Town of North Castle, Westchester County, New York (hereinafter referred to as the "Site"). The site is bordered by residential to the north and south, NY-22 (Bedford Road) to the east, and I-684 to the west. The development has been designed in accordance with the following:

- Requirements of the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit No. GP-0-20-001, effective January 29, 2020.
- Chapter 267 "Stormwater Management" of the Town of North Castle Zoning Code
- New York State Stormwater Management Design Manual.

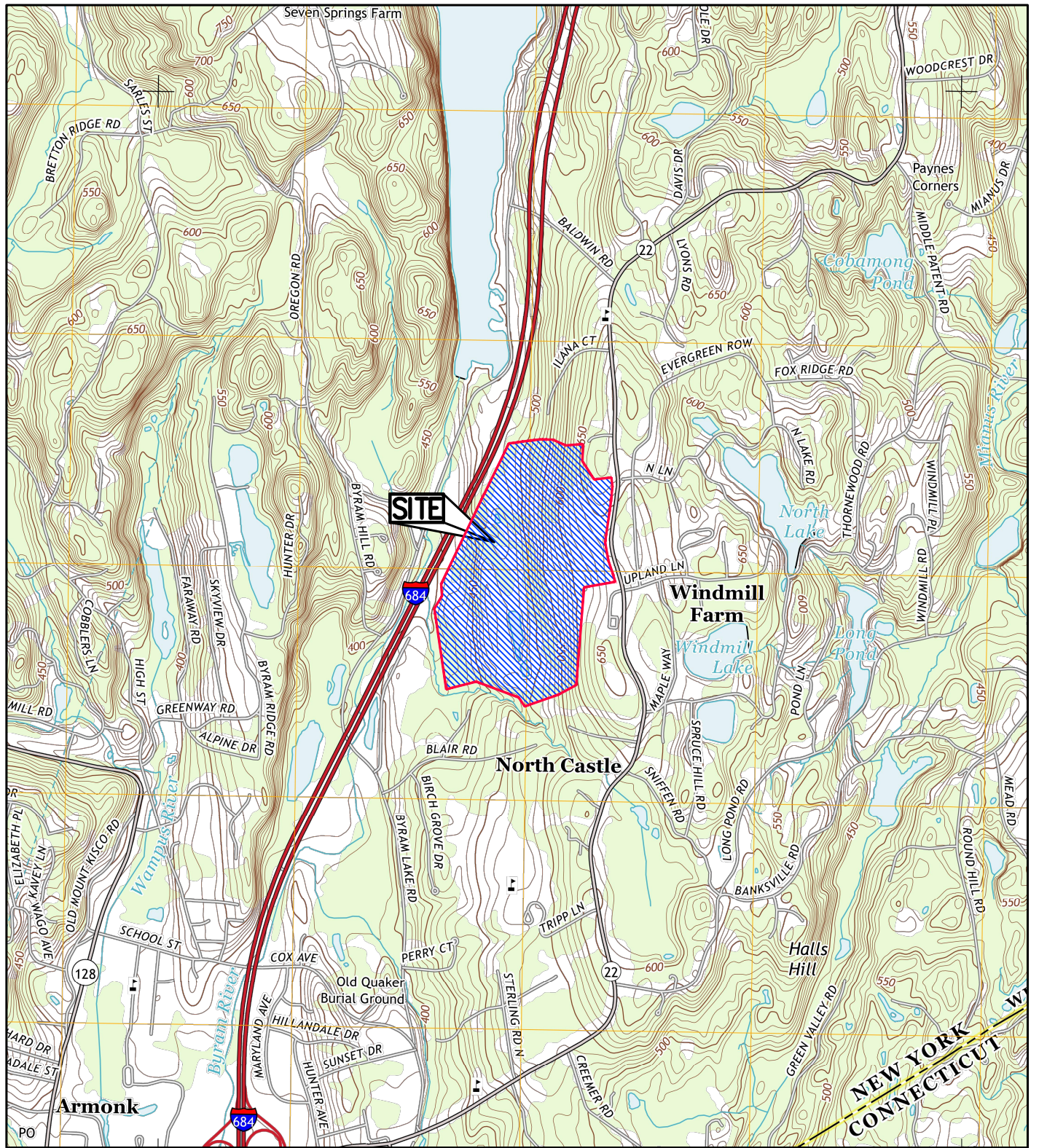
The project will consist of approximately 18.9 acres of disturbance at the east end of the site. The existing clubhouse, pool and tennis have recently been demolished. Seven multifamily 3-story residential buildings are being proposed, along with a residential amenities building, pool and tennis courts. An entrance road and overflow parking area are also being added.

II. STORMWATER MANAGEMENT PLANNING

In order to be eligible for coverage under the NYSDEC SPDES General Permit No. GP-0-20-001 for Stormwater Discharges from Construction Activities, the Stormwater Pollution Prevention Plan (SWPPP) includes stormwater management practices (SMP's) from the publication "New York State Stormwater Management Design Manual," last revised January 2015.

A Stormwater Pollution Prevention Plan has been prepared for this project because it is a construction activity that involves:

- Soil disturbances of one (1) or more acres of land.

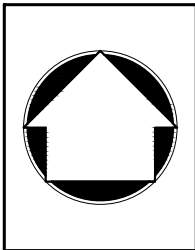


THE SUMMIT CLUB AT ARMONK
 568 BEDFORD ROAD (NY 22) TOWN OF NORTH CASTLE, NY

USGS SITE LOCATION MAP

DATE: 05/27/2021 JMC PROJECT: 20101

FIGURE: 1 SCALE: 1"=2000'



120 BEDFORD RD
 ARMONK
 NY 10504

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 fax 273-2102

JMCPLLC.COM

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The proposed stormwater facilities have been designed such that the quantity and quality of stormwater runoff during and after construction are not adversely altered or are enhanced when compared to pre-development conditions.

Based on the GIS information provided by the website of the New York State Office of Parks, Recreation and Historic Places, the site does not contain, nor is it immediately adjacent to any properties listed on the State or National Register of Historic Places.

The Six Step Process for Stormwater Site Planning and Practice Selection

Stormwater management using green infrastructure is summarized in the six step process described below. The six step process was adhered to when developing this SWPPP. Information is provided in this SWPPP which documents compliance with the required process as follows:

Step 1: Site Planning

Implement planning practices that protect natural resources and utilize the hydrology of the site. Strong consideration must be given to reducing impervious cover to aid in the preservation of natural resources including protecting natural areas, avoiding sensitive areas and minimizing grading and soil disturbance.

Step 2: Determine Water Quality Treatment Volume (WQv)

Determine the required WQv for the site based on the site layout, impervious areas and sub-catchments. This initial calculation of WQv will have to be revised after green infrastructure techniques are applied. The following method has been used to calculate the WQv.

- **90% Rule** - According to the New York State Stormwater Design Manual, Section 4.1, the water quality volume is determined from the 90% rule. The method is based on 90% of the average annual stormwater runoff volume which must be provided due to

impervious surfaces. The Water Quality Volume (denoted as the WQv) is designed to improve water quality sizing to capture and treat 90% of the average annual stormwater runoff volume. The WQv is directly related to the amount of impervious cover created at a site. The average rainfall storm depth for 90% of storms in New York State in one year is used to calculate a volume of runoff. The rainfall depth depends on the location of the site within the state. From this depth of rainfall, the required water quality volume is calculated.

The project is a redevelopment and therefore will comply with the strategies outlined within Chapter 9: Redevelopment Projects of the Design Manual. There are different options to control water quality depending on the redevelopment.

Since the redevelopment results in the creation of additional impervious area, Water Quality Treatment Option II will be utilized which requires treatment for 25% of the existing impervious area, plus 100% of the additional, new impervious area.

The plan proposes that a minimum of 25% of the water quality volume (WQv) from the disturbed area is captured and treated by the implementation of standard practices. When utilizing structural stormwater management practices, these practices should be targeted to treat areas with the greatest pollutant generation potential (e.g. parking areas, service stations, etc).

Step 3: Runoff Reduction Volumes (RRv) by Applying Green Infrastructure Techniques and Standard SMP's

RRv is required for this project since it is a combination of both new development and redevelopment.

Green infrastructure techniques or standard SMP's with RRv capacity can potentially reduce the required WQv by incorporating combinations of green infrastructure techniques and standard SMP's within each drainage area on the site.

Green infrastructure techniques are grouped into two categories:

- Practices resulting in a reduction of contributing area such as preservation/restoration of conservation areas, vegetated channels, etc.
- Practices resulting in a reduction of contributing volume such as green roofs, stormwater planters, and rain gardens.

Apply a combination of green infrastructure techniques and standard SMPs with RRv capacity to provide 100% of the WQv calculated in Step 2. If the RRv calculated in this step is greater than or equal to the WQv in Step 2, the RRv requirement has been met and Step 4 can be skipped. If the RRv provided cannot meet or exceed 100% of the WQv, the project must, at a minimum, reduce a percentage of the runoff from impervious areas to be constructed on the site. The percent reduction is based on the Hydrologic Soil Group(s) (HSG) of the site and is defined as Specific Reduction Factor (S).

The following green infrastructure techniques and practices are provided in the Design Manual:

- **Conservation of Natural Areas**
 - There are no areas on the site available to be dedicated to a conservation. Therefore, there is no area to be subtracted from the contributing area for the WQv calculation.
- **Sheet flow to Riparian Buffers or Filter Strips**
 - There are some well vegetated areas on-site with acceptable slopes that lend an opportunity as a buffer and still meet the minimum contributing length of flow. However, this practice was not used since an infiltration pond was a more practical and efficient treatment method.
- **Vegetated Swales**
 - The use of sheet flow into vegetated swales cannot be implemented along the proposed driveway because of the steep slope or throughout the parking areas due to the limited flow lengths, rock outcroppings, septic expansion areas, etc.
- **Tree Planting / Tree Pits**

- The project includes extensive tree planting around its perimeter as part of the proposed landscaping plan. However, the new trees are not credited towards area reduction for the water quality volume.
- **Disconnection of Rooftop Runoff**
 - This practice is not practical for this project since these items are typically used in a residential application with small rooftop areas.
- **Stream Daylighting**
 - This practice is not possible for this project since there are no existing streams.
- **Rain Gardens**
 - This practice is not practical for this project since a contributing drainage area is limited to 1,000 square feet of rooftop. This practice is typically used in a smaller residential application.
- **Green Roofs**
 - This practice is not proposed for this project due to the desired aesthetics of the buildings. Other more practical and efficient treatment methods were used.
- **Stormwater Planters**
 - Small drainage areas, less than 15,000 square feet can be collected by roof drains and discharged into stormwater planters which infiltrate stormwater prior to entering the underground storm pipes. However, this practice was not used in lieu of more practical and efficient treatment methods.
- **Rain Barrels and Cisterns**
 - Underground storage tanks could feasibly be installed to collect stormwater runoff to be used for irrigation purposes. However, this practice was not used in lieu of more practical and efficient treatment methods.
- **Porous Paving**
 - This practice is being utilized for the overflow parking area. In addition, pervious pavers are shown in front of the residential buildings but have been conservatively treated as impervious areas in the calculations.
- **Standard Practices with RRv Capacity**
 - **Biofilters and Bioretention Basins** – These practices cannot be proposed because the soil within the areas that have the ability to accommodate the practices has observed

groundwater elevations that are too close to the surface which would not provide the required separation from the bottom of the practice to groundwater.

- **Infiltration Practices** – An infiltration pond is located behind the residential buildings and is proposed to treat and retain runoff from a majority of the disturbance area.

The Minimum RRv capacity required must be provided by green infrastructure techniques to verify that the RRv requirement has been met. The RRv that is provided by the green infrastructure techniques can then be subtracted from the Total Required WQv that must be provided by the SMP's.

Step 4: Determine the minimum RRv Required

The minimum RRv is calculated similar to the WQv. However, it is determined using only the new impervious cover and accounts for the hydrologic soil group present. In no case shall the runoff reduction achieved from the newly constructed impervious area be less than the minimum runoff reduction volume (RRv_{min}).

Step 5: Apply Standard Stormwater Management Practices to Address Remaining Water Quality Volume

Apply the standard SMP's to meet additional water quality volume requirements that cannot be addressed by applying the green infrastructure techniques. The standard SMP's with RRv capacity must be implemented to verify that the RRv requirement has been met.

- **Infiltration Practices** – An infiltration pond is proposed to treat and retain runoff from the residential portion of the site. This practice is located in an area the groundwater elevation is acceptable to provide the required separation. According to Section 3.6 of the Design Manual, 100% of the WQv provided by an Infiltration Practice can be applied towards meeting the RRv criteria.
- **Porous Pavement** – Pavement with a high void ratio which allows the water to flow through in and into a drainage area below is being used to treat the water from the

proposed overflow parking area. According to Section 3.6 of the Design Manual, 100% of the WQv provided by an Infiltration Practice can be applied towards meeting the RRv criteria.

Step 6: Apply Volume and Peak Rate Control Practices to Meet Water Quantity Requirements

The Channel Protection Volume (CPv), Overbank Flood Control (Qp) and Extreme Flood Control (Qf) must be met for the plan to be completed. This is accomplished by using practices such as infiltration basins, dry detention basins, etc. to meet water quantity requirements. The following standards must be met:

I. Stream Channel Protection (CPv)

Stream Channel Protection Volume Requirements (CPv) are designed to protect stream channels from erosion. In New York State this goal is accomplished by providing 24-hour extended detention of the one-year, 24-hour storm event, remained from runoff reduction. Reduction of runoff for meeting stream channel protection objectives, where site conditions allow, is encouraged and the volume reduction achieved through green infrastructure can be deducted from CPv. Trout waters may be exempted from the 24-hour ED requirement, with only 12 hours of extended detention required to meet this criterion. Detention time may be calculated using either a center of mass method or plug flow calculation method.

- CPv for a redevelopment project is not required if there is no increase in impervious area or changes to hydrology that increase the discharge rate. This criterion, as defined in Chapter 4 of New York State Stormwater Design Manual, is not based on a pre versus post-development comparison. However, for a redevelopment project this requirement is relaxed. If the hydrology and hydraulic study shows that the post-construction 1-year 24 hour discharge rate and velocity are less than or equal to the pre-construction discharge rate, providing 24 hour detention of the 1-year storm to meet the channel protection criteria is not required.

2. Overbank Flood (Qp) which is the 10 year storm.

Overbank control requires storage to attenuate the post development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates.

3. Extreme Storm (Qf) which is the 100 year storm.

100 Year Control requires storage to attenuate the post development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates.

Based on the foregoing, this project is eligible for coverage under NYSDEC SPDES General Permit No. GP-0-20-001.

III. STUDY METHODOLOGY

Runoff rates were calculated based upon the standards set forth by the United States Department of Agriculture Natural Resources Conservation Service Technical Release 55, Urban Hydrology for Small Watersheds (TR-55), dated June 1986. The methodology set forth in TR-55 considers a multitude of characteristics for watershed areas including soil types, soil permeability, vegetative cover, time of concentration, topography, rainfall intensity, ponding areas, etc.

The 1, 10, 25, 100-year storm recurrence intervals were reviewed in the design of the stormwater management facilities (see Appendix A Existing & Proposed Hydrologic Calculations).

Anticipated drainage conditions were analyzed taking into account the rate of runoff which will result from the construction of buildings, parking areas and other impervious surfaces associated with the site development.

Base Data and Design Criteria

For the stormwater management analysis, the following base information and methodology were used:

1. The site drainage patterns and outfall facilities were reviewed by JMC personnel for the purpose of gathering background data and confirming existing mapping of the watershed areas.
2. An Existing Drainage Area Map was developed from the topographical survey. The drainage area map reflects the existing conditions within and around the project area.
3. A Proposed Drainage Area Map was developed from the proposed grading design superimposed over the topographical survey. The drainage area map reflects the proposed conditions within the project area and the existing conditions to remain in the surrounding area.
4. The United States Department of Agriculture (USDA) Web Soil Survey of the site available on its website at <http://websoilsurvey.nrcd.usda.gov>.
5. Soil Survey of Putnam and Westchester Counties, 1994.
6. The United States Department of Agriculture Natural Resources Conservation Service Technical Report No. 55, Urban Hydrology for Small Watersheds (TR-55), dated June 1986.
7. The time of concentration was calculated using the methods described in Chapter 3 of TR-55, Second Edition, June 1986. Manning's kinematics wave equation was used to determine the travel time of sheet flow. The 2-year 24-hour precipitation amount of 3.4 inches was used in the equation for all storm events. The travel time for shallow concentrated flow was computed using Figure 3-1 and Table 3-1 of TR-55. Manning's Equation was used to determine the travel time for channel reaches.

8. All hydrologic calculations were performed with the Bentley PondPack software package version 10.0.
9. All hydraulic calculations were performed with the Civil 3D Storm Sewer Analysis software package version 2020.
10. The New York State Stormwater Management Design Manual, revised January 2015.
11. New York Standards and Specifications for Erosion and Sediment Control, November 2016.
12. The storm flows for the 1-, 10-, 25-, & 100-year recurrence interval storms were analyzed for the total watershed areas. The Type III distribution design storm for a 24 hour duration was used and the mass rainfall for each design storm was taken from the Extreme Precipitation in New York & New England developed by the Natural Resource Conservation Service (NRCS) and the Northeast Regional Climate Center (NRCC) as follows:

24 Hour Rainfall Amounts

| Design Storm Recurrence Interval | Inches of Rainfall |
|----------------------------------|--------------------|
| 1 Year | 2.8 |
| 10 Year | 5.1 |
| 25 Year | 6.4 |
| 100 Year | 9.1 |

IV. EXISTING CONDITIONS

The existing conditions of the project site consists of an existing clubhouse building with a swimming pool, fourteen tennis courts, and a parking lot to remain. The majority of the site drains through the golf course to the west, passing through a series of swales and pond before finally existing the site by I-684. A small portion of the stormwater drains to the east towards Bedford Road (NYS Route 22).

The following natural features, conservation areas, resource areas and drainage patterns of the project site have been identified and utilized to develop Drawing DA-I “Existing Drainage Area Map” which is included in Appendix G:

- Wetlands (jurisdictional, wetland of special concern)
- Waterways (major, perennial, intermittent, springs)
- Buffers (stream, wetland, forest, etc.)
- Forest, vegetative cover
- Topography (contour lines, existing flow paths, steep slopes, etc.)
- Soil (hydrologic soil groups, highly erodible soils, etc.)

Based on the USDA Web soil survey, most on-site soils are well drained, with some moderately well drained soils. Most of the soils belong to hydrological groups B or C. The soil types, boundaries and drainage areas/designations are depicted on Drawing DA-I within Appendix G.

Two separate Design Points (DP-1C and DP-2) were identified for comparing peak rates of runoff in existing and proposed conditions. Similarly, five separate drainage areas were identified in existing conditions based on the existing drainage divides at the site. The numbers included in the name of each drainage area correspond to the Design Point they drain towards.

The following is a description of each of the drainage areas analyzed in the existing conditions analysis. Refer to Drawing DA-I in Appendix G.

Existing Drainage Area 1C-2 (EDA-1C-2) is 12.59 acres in size and is located on the southern portion of the disturbance area. This area consists of the existing clubhouse, pool, parking lot, several tennis courts, and landscaped areas. This drainage area drains towards Junction 1C-2 where it passes through several ponds before traveling to the design point. The Curve Number (CN) and Time of Concentration (T_c) for this drainage area are 80 and 18 minutes, respectively.

Existing Drainage Area 1C-6 (EDA-1C-6) is 0.35 acres in size and is located on the western portion of the disturbance area. This area consists mostly of landscaped area. This drainage area

drains towards Junction IC-6 where it runs via overland flow into a wetland area before traveling to the design point. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 66 and 7 minutes, respectively.

Existing Drainage Area IC-7 (EDA-IC-7) is 1.59 acres in size and is located on the western portion of the disturbance area. This area consists mostly of landscaped area with a couple of tennis courts. This drainage area drains towards Junction IC-7 where it runs via overland flow into a series of ponds before traveling to the design point. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 76 and 14 minutes, respectively.

Existing Drainage Area IC-10 (EDA-IC-10) is 4.76 acres in size and is located on the western portion of the disturbance area. This area consists mostly of landscaped area with a couple of tennis courts. This drainage area drains towards Junction IC-7 where it runs via overland flow into a series of ponds before traveling to the design point. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 67 and 9 minutes, respectively.

Existing Drainage Area 2 (EDA-2) is 3.37 acres in size and is located on the eastern portion of the disturbance area. This area consists mostly of landscaped area with a portion of the tennis courts. This drainage area drains towards a drain inlet along Bedford Road. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 79 and 11 minutes, respectively.

The peak rates of runoff to the design points from the drainage areas for each storm are shown in the table below:

Table I
Summary of Peak Rates of Runoff in Existing Conditions
(Cubic Feet per Second)

| Storm Recurrence Interval | DP-1C | DP-2 |
|---------------------------|-------|-------|
| 1 year | 13.53 | 3.15 |
| 10 year | 41.12 | 9.00 |
| 25 year | 58.24 | 12.55 |
| 100 year | 95.31 | 19.92 |

V. **PROPOSED CONDITIONS**

The proposed improvements consist of the entrance driveway, six residential buildings, amenities building, pool, and tennis courts.

The proposed drainage improvements include an infiltration basin, a detention basin, and porous pavement. After treatment for water quality and peak rate attenuation, stormwater discharges from the ponds will travel through overland flow and ponds/wetlands. The overland discharges provide multiple opportunities for water quality enhancement and infiltration in addition to the proposed stormwater management basins.

This section describes the design and analysis of the proposed conditions used to demonstrate that the SWPPP meets the requirements of the General Permit.

The Six Step Process For Stormwater Site Planning and Practice Selection

Step 1: Site Planning

The following practices and site features were incorporated in the site design:

- Preserving hydrology - Maintaining drainage divides
- Wetlands and buffers – The site includes 6.56 acres of wetlands and 26.01 acres of wetland buffers. The project requires the disturbance of 0 acres of wetlands and 0 acres of wetland buffers.
- Floodplain considerations - The site does not lie within the 100 year flood zone according to the National Flood Insurance Program Flood Insurance Rate Map (FIRM) No. 36119C0164F and No. 36119C0168F, effective date 09/28/2007.
- Waterways (major, perennial, intermittent, springs) – The location, setback, cross section, etc. of the existing waterway has been maintained.
- Forest, vegetative cover – The maximum amount of forest and vegetative cover has been maintained and/or provided.

- Topography (contour lines, existing flow paths, steep slopes, etc.) has been maintained or disturbed to the minimum extent practicable.
- Soil (hydrologic soil groups, highly erodible soils, etc.)

Step 2: Determine Water Quality Treatment Volume (WQv)

Step 3: Runoff Reduction Volumes (RRv) by Applying Green Infrastructure Techniques and Standard SMP's

- **Infiltration Basin**
- **Porous Pavement**

Step 4: Determine the minimum RRv Required

RRv_{min} calculations can be found in Appendix 'B'. RRv_{min} was met through infiltration basins and porous pavement.

Step 5: Apply Standard Stormwater Management Practices to Address Remaining Water Quality Volume

Non Standard/Alternative SMP's to Address Remaining Water Quality Volume (for Redevelopment Projects)

- **Hydrodynamic Separators (pretreatment)**

Step 6: Apply Volume and Peak Rate Control Practices to Meet Water Quantity Requirements

- **PONDS**

Extended Detention Pond

Description

Pond that treats the water quantity volume through extended detention.

All practices exceed the required elements of SMP criteria as outlined in Chapter 6 of the NYS Stormwater Management Design Manual. A summary of each category is provided below.

1. Feasibility – Stormwater practices are designed based upon unique physical environmental considerations noted in the NYS Stormwater Management Design Manual (NYSSMDM).
2. Conveyance – The design conveys runoff to the designed stormwater practice in a manner that is safe, minimizes erosion and disruption to natural drainage channel and promotes filtering and infiltration.
3. Pretreatment – All stormwater practices provide pretreatment as required in accordance with NYSSMDM design guidelines.
4. Treatment Geometry – The plan provides water quality treatment in accordance with NYSSMDM guidelines.
5. Environmental/Landscaping – Extensive landscaping has been provided for each proposed stormwater practice to enhance pollutant removal and provide aesthetic enhancement to the property.
6. Maintenance – Maintenance for the environment practices has been provided and is detail the SWPPP Report as required. Maintenance access is provided in the design plans.

In order to determine the post-development rates of runoff generated on-site, the following drainage areas were analyzed in the post-development conditions. These areas are graphically depicted on Drawing DA-2 "Proposed Drainage Area Map" located in Appendix "G".

Two separate Design Points (DP-1C and DP-2) were identified for comparing peak rates of runoff in existing and proposed conditions. Similarly, three separate drainage areas were

identified in proposed conditions based on the proposed drainage divides at the site. The numbers included in the name of each drainage area correspond to the Design Point they drain towards.

The following is a description of each of the drainage areas analyzed in the proposed conditions analysis. Refer to Drawing DA-2 in Appendix G.

Proposed Drainage Area IC-2A (PDA-IC-2A) is 6.28 acres in size and is located on the southern portion of the disturbed area. This area consists of the existing parking area, proposed amenities building, pool, tennis courts, and parking overflow area. The parking overflow area will consist of pervious pavement, while the remaining impervious area is either existing or replacing existing impervious. This drainage area drains towards Junction IC-2 where it passes through several ponds before traveling to the design point. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 87 and 17 minutes, respectively.

Proposed Drainage Area IC-2B (PDA-IC-2B) is 13.45 acres in size and is located on the northern portion of the disturbed area. This area consists of the proposed residential buildings, roadways and parking areas, and tennis courts. This drainage area drains towards an infiltration and detention pond for quality and quantity treatment. As the stormwater exits the detention pond, it is directed towards two separate locations, Junction IC-2 and Junction IC-10. This is done to align post-development flows with pre-development conditions. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 79 and 10 minutes, respectively.

Proposed Drainage Area 2 (PDA-2) is 2.93 acres in size and is located on the eastern portion of the disturbed area. This area consists of existing landscaped area. This drainage area drains towards a drain inlet along Bedford Road. The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 74 and 11 minutes, respectively.

The peak rates of runoff to the design point of each of the analyzed drainage areas for each storm are shown on the table below:

Table 3
Summary of Proposed Peak Rates of Runoff in Proposed Conditions
(Cubic Feet per Second)

| Storm Recurrence Interval | DP-1C | DP-2 |
|---------------------------|-------|-------|
| 1 year | 6.18 | 1.94 |
| 10 year | 26.38 | 6.62 |
| 25 year | 43.84 | 9.60 |
| 100 year | 82.49 | 15.93 |

The reductions in peak rates of runoff from proposed to existing conditions are shown on the table below:

Table 4
Percent Reductions in Peak Rates of Runoff (Existing vs. Proposed Conditions)
(Cubic Feet per Second)

| Design Point | Storm Recurrence Frequency (Years) | Existing Peak Runoff Rate (cfs) | Proposed Peak Runoff Rate (cfs) | Percent Reduction (%) |
|--------------|------------------------------------|---------------------------------|---------------------------------|-----------------------|
| 1C | 1 year | 13.53 | 7.23 | 46.6 |
| | 10 year | 41.12 | 26.55 | 35.4 |
| | 25 year | 58.24 | 44.19 | 24.1 |
| | 100 year | 95.31 | 82.90 | 13.0 |
| 2 | 1 year | 3.15 | 1.87 | 40.6 |
| | 10 year | 9.00 | 6.37 | 29.2 |
| | 25 year | 12.55 | 9.23 | 26.5 |
| | 100 year | 19.92 | 15.32 | 23.1 |

As demonstrated in Table 4, the proposed stormwater improvements will result in significant reductions of peak rates of runoff for all storms and design points analyzed.

VI. SOIL EROSION & SEDIMENT CONTROL

A potential impact of the proposed development on any soils or slopes will be that of erosion and transport of sediment during construction. An Erosion and Sediment Control Management Program will be established for the proposed development, beginning at the start of construction and continuing throughout its course, as outlined in the "New York State Standards and

Specifications for Erosion and Sediment Control," November 2016. A continuing maintenance program will be implemented for the control of sediment transport and erosion control after construction and throughout the useful life of the project.

The Operator shall have a qualified professional conduct an assessment of the site prior to the commencement of construction and certify that the appropriate erosion and sediment controls, as shown on the Sediment & Erosion Control Plans, have been adequately installed to ensure overall preparedness of the site for the commencement of construction. In addition, the Operator shall have a qualified professional conduct one site inspection at least every seven calendar days and at least two site inspections every seven calendar days when greater than five acres of soil is disturbed at any one time. In accordance with NYSDEC SPDES General Permit No. GP-0-20-001 effective January 29, 2020 written authorization by the MS4 (Town of North Castle) to disturb greater than five (5) acres of soil at any one time is hereby requested, subject to the following provisions:

1. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
2. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, last revised November 2016.
3. The owner or operator shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
4. The owner or operator shall install any additional site-specific practices needed to protect water quality.
5. The owner or operator shall include the requirements above in their SWPPP.

Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the trained contractor. The owner or operator shall ensure that at least one trained contractor is on site on a daily basis when soil disturbance activities are being performed. The owner or operator shall have each of the contractors and subcontractors identified above sign a copy of the certification statement provided in Appendix E before they commence any construction activity.

Soil Description

As provided by the United States Department of Agriculture, Soil Conservation Service "Web Soil Survey," soil classifications which exist on the subject site are described below.

Soils are placed into four hydrologic groups: A, B, C, and D. In the definitions of the classes, infiltration rate is the rate at which water enters the soil at the surface and is controlled by the surface conditions. Transmission rate is the rate at which water moves in the soil and is controlled by soil properties. Definitions of the classes are as follows:

- A. (Low runoff potential). The soils have a high infiltration rate even when thoroughly wetted. They chiefly consist of deep, well drained to excessively drained sands or gravels. They have a high rate of water transmission.

- B. The soils have a moderate infiltration rate when thoroughly wetted. They chiefly are moderately deep to deep, moderately well drained to well drained soils that have moderately fine to moderately coarse textures. They have a moderate rate of water transmission.

- C. The soils have a slow infiltration rate when thoroughly wetted. They chiefly have a layer that impedes downward movement of water or have moderately fine to fine texture. They have a slow rate of water transmission.
- D. (High runoff potential). The soils have a very slow infiltration rate when thoroughly wetted. They chiefly consist of clay soils that have a high swelling potential, soils that have a permanent high water table, soils that have a claypan or clay layer at or near the surface, and shallow soils over nearly impervious material. They have a very slow rate of water transmission.

A soil's tendency to erode is also described in the USDA web soil survey. The ratings in this interpretation indicate the hazard of soil loss from unsurfaced areas. The ratings are based on soil erosion factor K, slope, and content of rock fragments. The hazard is described as "slight," "moderate," or "SEVERE." A rating of "slight" indicates that little or no erosion is likely; "moderate" indicates that some erosion is likely, that the temporarily unsurfaced / unstabilized during construction may require occasional maintenance, and that simple erosion-control measures are needed; and "SEVERE" indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that erosion-control measures are needed.

Per the Soil Survey, the following soils listed below are present at the site. Following this list is a detailed description of each soil type found on the property:

| SYM. | HYDRO. | SOIL GROUP | DESCRIPTION |
|-------------|---------------|-------------------|--|
| Ub | B | | Udorthents, Smoothed |
| PnB | C | | Paxton fine sandy loam, 3 to 8 percent |
| CrC | B | | Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky |
| PnC | C | | Paxton fine sandy loam, 8 to 15 percent |
| CsD | B | | Charlton-Chatfield complex, 15 to 35 percent slopes, very rocky |

Ub, Udorthents, Smoothed

This soil consists of very deep, excessively drained to moderately well drained soils that have been altered by cutting and filling. It is made up of soil material in alternating layers ranging from

sand to silt loam. Slopes are mainly 3 to 15 percent, but they range from 0 to 25 percent. Because of the variability of the Udorthents, a typical pedon is not described. The fill material is commonly more than 20 inches deep over the original soil. The content of rock fragments ranges from 0 to 60 percent. The properties and characteristics of the Udorthents are so variable that onsite investigation and evaluation are required to determine the suitability and limitations for proposed uses.

Hydrologic group: **B**

Erosion Hazard Rating: **NOT RATED**

PnB, Paxton fine sandy loam, 3 to 8 percent

This soil is gently sloping, very deep, and well drained. It is on broad ridges and small hills. Individual areas are irregularly shaped or are long and narrow. Included with this soil in mapping are a few areas of the moderately well drained Woodbridge soils, small areas of the somewhat poorly drained Ridgebury soils, small areas of Charlton soils that do not have a dense substratum, and the areas of rock outcrop. Woodbridge soils are on the lower concave side slopes and at the bottom of the hills. Ridgebury soils are along drainageways. The rock outcrop is in a few areas, generally near areas of Chatfield or Hollis soils. Also included are a new soils that have a very stony surface. The seasonally high water table is 1.5 to 2.5 feet. The available water capacity is moderate.

Hydrologic group: **C**

Erosion Hazard Rating: **SLIGHT**

CrC, Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky

The unit consists of very deep and moderately deep, well drained and somewhat excessively drained Chatfield soil and the well-drained Charlton soil. It is on hilltops and hillsides that are underlain by highly folded bedrock. Included in mapping are areas of moderately well drained Sutton soils, the somewhat poorly drained and poorly drained Leicester soils, and the poorly

drained and very poorly drained Sun soils. Sutton soils are along drainageways and in concave interridge areas. Leicester and Sun soils are in shallow depressions and along drainageways. Also included are the poorly drained Carlisle and Palms soils, the somewhat excessively drained and well drained Hollis soils, and areas of soils that are similar to the Chatfield soil but are deep over bedrock. Carlisle and Palms soils are in closed depressions. Hollis soils are shallow over bedrock. They are in scattered areas throughout the unit but are mostly on ridgetops. The soils that are similar to the Chatfield soils are in the western part of Putnam County, in areas where the surface is extremely stony or bouldery. The seasonally high water table is more than 6 feet. The available water capacity is moderate.

Hydrologic group: **B**

Erosion Hazard Rating: **MODERATE**

PnC, Paxton fine sandy loam, 8 to 15 percent

This soil is strongly sloping, very deep, and well drained. It is on the sides and tops broad ridges and small hills. Individual areas are irregularly shaped or are long and narrow. Included with this soil in mapping are a few areas of the moderately well drained Woodbridge soils, small areas of the somewhat poorly drained Ridgebury soils, small areas of Charlton soils that do not have a dense substratum, and the areas of rock outcrop. Woodbridge soils are on the lower concave side slopes and at the bottom of the hills. Ridgebury soils are along drainageways. The rock outcrop is in a few areas, generally near areas of Chatfield or Hollis soils. Also included are a new soils that have a very stony surface. The seasonally high water table is 1.5 to 2.5 feet. The available water capacity is moderate.

Hydrologic group: **C**

Erosion Hazard Rating: **MODERATE**

CsD, Charlton-Chatfield complex, 15 to 35 percent slopes, very rocky

The unit consists of very deep and moderately deep, well drained and somewhat excessively drained Chatfield soil and the well-drained Charlton soil. It is on tops and sides of hills that are underlain by highly folded bedrock. Slopes range from 15 to 35 percent. Included in mapping are areas of moderately well drained Sutton soils, the somewhat poorly drained and poorly drained Leicester soils, and the poorly drained and very poorly drained Sun soils. Sutton soils are along drainageways and in concave interridge areas. Leicester and Sun soils are in shallow depressions and along drainageways. Also included are the poorly drained Carlisle and Palms soils, the somewhat excessively drained and well drained Hollis soils, and areas of soils that are similar to the Chatfield soil but are deep over bedrock. Carlisle and Palms soils are in closed depressions. Hollis soils are shallow over bedrock. They are in scattered areas throughout the unit but are mostly on ridgetops. The soils that are similar to the Chatfield soils are in the western part of Putnam County, in areas where the surface is extremely stony or bouldery. The seasonally high water table is more than 6 feet. The available water capacity is moderate.

Hydrologic group: **B**

Erosion Hazard Rating: **SEVERE**

On-Site Pollution Prevention

There are temporary pollution prevention measures used to control litter and construction debris on site, such as:

- Silt Fence
- Silt Sack
- Stone Check Dam
- Excavated Drop Inlet Protection

There will be inlet protection provided for all storm drains and inlets with the use of curb gutter inlet protection structures and stone & block drop inlet protection, which keep silt, sediment and construction litter and debris out of the on-site stormwater drainage system.

Temporary Control Measures

Temporary control measures and facilities will include silt fences, construction ditches, stabilized construction access, temporary seeding, mulching and sediment traps with temporary riser and anti-vortex devices.

Throughout the construction of the proposed redevelopment, temporary control facilities will be implemented to control on-site erosion and sediment transfer. Construction ditches, if required, will be used to direct stormwater runoff to temporary sediment traps for settlement. The sediment traps will be constructed as part of this project will serve as temporary sediment basins to remove sediment and pollutants from the stormwater runoff produced during construction. Descriptions of the temporary sediment & erosion controls that will be used during the development of the site including silt fence, stabilized construction access, seeding, mulching and inlet protection are as follows:

1. Silt Fence is constructed using a geotextile fabric. The fence will be either 18 inches or 30 inches high. The height of the fence can be increased in the event of placing these devices on uncompacted fills or extremely loose undisturbed soils. The fences will not be placed in areas which receive concentrated flows such as ditches, swales and channels nor will the filter fabric material be placed across the entrance to pipes, culverts, spillway structures, sediment traps or basins.
2. Stabilized Construction Access consists of AASHTO No. 1 rock. The rock entrance will be a minimum of 50 feet in length by 24 feet in width by 8 inches in depth.
3. Seeding will be used to create a vegetative surface to stabilize disturbed earth until at least 80% of the disturbed area has a perennial vegetative cover. This amount is required to adequately function as a sediment and erosion control facility. Grass lining will also be used to line temporary channels and the surrounding disturbed areas.
4. Mulching is used as an anchor for seeding and disturbed areas to reduce soil loss due to storm events. These areas will be mulched with straw at a rate of 3 tons per acre such that

the mulch forms a continuous blanket. Mulch must be placed after seeding or within 48 hours after seeding is completed.

5. Inlet Protection will be provided for all stormwater basins and inlets with the use of curb & gutter inlet protection and stone & block inlet protection structures, which will keep silt, sediment and construction debris out of the storm system. Existing structures within existing paved areas will be protected using “Silt Sacks” inside the structures.
6. Stone Check Dams are small barriers of crushed stone which will be laid across the grass swales which are approximately 12 inches high, located every one foot of elevation change along the swales so that the crest elevation of the downstream dam is at the same elevation of the toe of the upstream dam.

The contractor shall be responsible for maintaining the temporary sediment and erosion control measures throughout construction. This maintenance will include, but not be limited to, the following tasks:

1. For dust control purposes, moisten all exposed graded areas with water at least twice a day in those areas where soil is exposed and cannot be planted with a temporary cover due to construction operations or the season (December through March).
2. Inspection of erosion and sediment control measures shall be performed at the end of each construction day and immediately following each rainfall event. All required repairs shall be immediately executed by the contractor.
3. Sediment deposits shall be removed when they reach approximately $\frac{1}{3}$ the height of the silt fence. All such sediment shall be properly disposed of in fill areas on the site, as directed by the Owner’s Field Representative. Fill shall be protected following disposal with mulch, temporary and/or permanent vegetation and be completely circumscribed on the downhill side by silt fence.
4. Rake all exposed areas parallel to the slope during earthwork operations.

5. Following final grading, the disturbed area shall be stabilized with a permanent surface treatment (i.e. turf grass, pavement or sidewalk). During rough grading, areas which are not to be disturbed for fourteen or more days shall be stabilized with the temporary seed mixture, as defined on the plans. Seed all piles of dirt in exposed soil areas that will not receive a permanent surface treatment.

Concrete Material and Equipment Management

Concrete washouts shall be used to contain concrete and liquids when the chutes of concrete mixers and hoppers of concrete pumps are rinsed out after delivery. The washout facilities consolidate solid for easier disposal and prevent runoff of liquids. The wash water is alkaline and contains high levels of chromium, which can leach into the ground and contaminate groundwater. It can also migrate to a storm drain, which can increase the pH of area waters and harm aquatic life. Solids that are improperly disposed of can clog storm drain pipes and cause flooding. Installing concrete washout facilities not only prevents pollution but also is a matter of good housekeeping at your construction site.

Prefabricated concrete washout containers can be delivered to the site to provide maintenance and disposal of materials. Regular pick-ups of solid and liquid waste materials will be necessary. To prevent leaks on the job site, ensure that prefabricated washout containers are watertight. A self installed concrete washout facility can be utilized although they are much less reliable than prefabricated containers and are prone to leaks. There are many design options for the washout, but they are preferably built below-grade to prevent breaches and reduce the likelihood of runoff. Above-grade structures can also be used if they are sized and constructed correctly and are diligently maintained. One of the most common problems with self-installed concrete washout facilities is that they can leak or be breached as a result of constant use, therefore the contractor shall be sure to use quality materials and inspect the facilities on a daily basis.

Washouts must be sized to handle solids, wash water, and rainfall to prevent overflow.

Concrete Washout Systems, Inc. estimates that 7 gallons of wash water are used to wash one truck chute and 50 gallons are used to wash out the hopper of a concrete pump truck.

For larger sites, a below-grade washout should be at least 10 feet wide and sized to contain all liquid and solid waste expected to be generated in between cleanout periods. A minimum of 12-inches of freeboard must be provided. The pit must be lined with plastic sheeting of at least 10-mil thickness without holes or tears to prevent leaching of liquids into the ground. Concrete wash water should never be placed in a pit that is connected to the storm drain system or that drains to nearby waterways.

An above-grade washout can be constructed at least 10 feet wide by 10 feet long and sized to contain all liquid and solid waste expected to be generated in between cleanout periods. A minimum of 4-inches of freeboard must be provided. The washout structures can be constructed with staked straw bales or sandbags double-or triple lined with plastic sheeting of at least 10-mil thickness without holes or tears.

Concrete washout facilities shall not be located within 50 feet of storm drains, open ditches, or water bodies and should be placed in locations that allow for convenient access for concrete trucks. The contractor shall check all concrete washout facilities daily to determine if they have been filled to 75 percent capacity, which is when materials need to be removed. Both above-and below-ground self-installed washouts should be inspected daily to ensure that plastic linings are intact and sidewalls have not been damaged by construction activities. Prefabricated washout containers should be inspected daily as well as to ensure the container is not leaking or nearing 75 percent capacity. Inspectors should also note whether the facilities are being used regularly. Additional signage for washouts may be needed in more convenient locations if concrete truck operators are not utilizing them.

The washout structures must be drained or covered prior to predicted rainstorms to prevent overflows. Hardened solids either whole or broken must be removed and then they may be reused onsite or hauled away for recycling.

Once materials are removed from the concrete washout, a new structure must be built or excavated, or if the previous structure is still intact, inspect it for signs of weakening or damage and make any necessary repairs. Line the structure with new plastic that is free of holes or tears and replace signage if necessary. It is very important that new plastic be used after every cleaning because pumps and concrete removal equipment can damage the existing liner.

Construction Site Chemical Control

The purpose of this management measure is to prevent the generation of nonpoint source pollution from construction sites due to improper handling and usage of nutrients and toxic substances, and to prevent the movement of toxic substances from the construction site.

Many potential pollutants other than sediment are associated with construction activities. These pollutants include pesticides; fertilizers used for vegetative stabilization; petrochemicals; construction chemicals such as concrete products, sealers, and paints; wash water associated with these products; paper; wood; garbage; and sanitary waste.

Disposal of excess pesticides and pesticide-related wastes should conform to registered label directions for the disposal and storage of pesticides and pesticide containers set forth in applicable Federal, State and local regulations that govern their usage, handling, storage, and disposal.

Pesticides should be disposed of through either a licensed waste management firm or a treatment, storage and disposal (TSD) facility. Containers should be triple-rinsed before disposal, and rinse waters should be reused as product.

Other practices include setting aside a locked storage area, tightly closing lids, storing in a cool, dry place, checking containers periodically for leaks or deterioration, maintaining a list of products in storage, using plastic sheeting to line the storage areas, and notifying neighboring property owners prior to spraying.

When storing petroleum products, follow these guidelines:

- Create a shelter around the area with cover and wind protection;
- Line the storage area with a double layer of plastic sheeting or similar material;
- Create an impervious berm around the perimeter with a capacity of 110 percent greater than that of the largest container;
- Clearly label all products;
- Keep tanks off the ground; and
- Keep lids securely fastened.

Post spill procedure information and have persons trained in spill handling on site or on call at all times. Materials for cleaning up spills should be kept on site and easily available. Spills should be cleaned up immediately and the contaminated material properly disposed of. Maintain and wash equipment and machinery in confined areas specifically designed to control runoff.

Thinners or solvents should not be discharged into sanitary or storm systems when cleaning machinery. Use alternative methods for cleaning larger equipment parts, such as high-pressure, high-temperature water washes, or steam cleaning. Equipment-washing detergents can be used, and wash water may be discharged into sanitary sewers if solids are removed from the solution first. (This practice should be verified with the local sewer authority.) Small parts can be cleaned with degreasing solvents, which can then be reused or recycled.

Solid Waste Management and Portable Sanitary Management

The purpose of this management measure is to prevent the potential for solid waste such as construction debris, trash, etc. from construction sites due to improper handling and storage. Debris and litter should be removed periodically from the BMP's and surrounding areas to prevent clogging of pipes and structures. All construction material shall be stored in designated staging areas. Roll-off containers shall be placed on site and all empty containers, construction debris and litter shall be placed in the containers.

Portable sanitary units may be utilized on-site or bathrooms will be provided within construction trailers. A sanitation removal company will be hired to pump/remove any sanitary waste. In the event that portable sanitary units are used and then cleaned after being emptied, the rinse water may not be disposed of to the storm drain system. It shall be contained for later disposal if it can't be disposed of on-site. Remove paper and trash before cleaning the portable sanitary units. The portable sanitary units shall be located away from the storm drain system if possible. Provide over head cover for wash areas if possible. Maintain spill response material and equipment on site to eliminate the potential for contaminants and wash water from entering the storm drain system.

Permanent Control Measures and Facilities for Long Term Protection

Towards the completion of construction, permanent sediment and erosion control measures will be developed for long term erosion protection. The following permanent control measures and facilities have been proposed to be implemented for the project:

1. Vegetated Swales will function to provide additional treatment of stormwater runoff by removal of pollutants and will promote a reduction of peak flows and provide runoff infiltration.
2. Infiltration Basins will be used to treat the runoff volume generated from the developed area and provide improvement to water quality control. The proposed basins will provide water quality for 90% of the average annual stormwater runoff volume. The water quality volume will be retained and higher storms will be released gradually. Refer to the water quality volume calculations, in Appendix B.
3. A Hydrodynamic Water Quality Structure will be used to provide pretreatment of the water quality flow rate for separating sediment, debris, floatables, etc. from the runoff prior to discharge to the SMP's. The Water Quality Structure has been designed to treat up to the required water quality volume and appropriately handle all storm frequencies without the resuspension of solids. The system will provide 80% TSS removal rate for particles having a mean particle size of 125 microns for stormwater runoff.

4. Catch Basins will be used to remove some of the coarse sand and grit sediment before entering the drainage system. Each catch basin will be constructed with an 18 inch deep sump.
5. Rip-Rap Energy Dissipators At discharge points from the stormwater drainage system into the stormwater management basins, rip-rap pads consisting of angular rocks will be placed to dissipate velocity and reduce the risk of erosion.
6. Seeding of at least 70% perennial vegetative cover will be used to produce a permanent uniform erosion resistant surface. The seeded areas will be mulched with straw at a rate of 2 tons per acre such that the mulch forms a continuous blanket.

Specifications for Soil Restoration

Prior to the final stabilization of the disturbed areas, soil restoration will be required for all vegetated areas to recover the original properties and porosity of the soil. Soil Restoration Requirements are provided on Table 7 below:

Table 7

Soil Restoration Requirements

| Type of Soil Disturbance | Soil Restoration Requirement | | Comments/Examples |
|--|--|---------------------------------------|--|
| No soil disturbance | Restoration not permitted | | Preservation of Natural Features |
| Minimal soil disturbance | Restoration not required | | Clearing and grubbing |
| Areas where topsoil is stripped only – no change in grade | HSG A&B | HSG C&D | Protect area from any ongoing construction activities |
| | apply 6 inches of topsoil | Aerate* and apply 6 inches of topsoil | |
| Areas of cut or fill | HSG A&B | HSG C&D | Clearing and grubbing |
| | Aerate and apply 6 inches of topsoil | Apply full Soil Restoration** | |
| Heavy traffic areas on site (especially) in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls) | Apply full Soil Restoration (decompaction and compost enhancement) | | |
| Areas where Runoff Reduction and/or Infiltration practices are applied | Restoration not required, but may be applied to enhance the reduction specified for appropriate practices. | | Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area. |
| Redevelopment projects | Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area. | | |

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

** Per "Deep Ripping and De-compaction, DEC 2008."

During periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following full soil restoration steps applied:

1. Apply 3 inches of compost over subsoil.
2. Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor-mounted disc, or tiller, mixing, and circulating air and compost into subsoils.
3. Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.

Specifications for Final Stabilization of Graded Areas

Final stabilization of graded areas consists of the placement of topsoil and installation of landscaping (unless the area is to be paved, or a building is to be constructed in the location). Topsoil is to be spread as soon as grading operations are completed. Topsoil is to be placed to a minimum depth of six inches on all embankments, planting areas and seeding/sod areas. The subgrade is to be scarified to a depth of two inches to provide a bond of the topsoil with the subsoil. Topsoil is to be raked to an even surface and cleared of all debris, roots, stones and other unsatisfactory material.

Planting operations shall be conducted under favorable weather conditions as follows:

- Permanent Lawns - April 15 (provided soil is frost-free and not excessively moist) to May 15; August 15 to October 15.
- Temporary Lawn Seeding - if outside of the time periods noted above, the areas shall be seeded immediately on completion of topsoil operations with annual ryegrass (Italian rye) at a rate of six pounds per 1,000 square feet. Temporary lawn installation is permitted provided the soil is frost-free and not excessively moist. The permanent lawn is to be installed the next planting season.

On slopes with a grade of 3 horizontal to 1 vertical or greater, and in swales, a geotextile netting or mat shall be installed for stabilization purposes as shown on the Plans. Seeded areas are to be

mulched with straw or hay at an application rate of 70-90 pounds per 1,000 s.f. Straw or hay mulch must be spread uniformly and anchored immediately after spreading to prevent wind blowing. Mulches must be inspected periodically and in particular after rainstorms to check for erosion. If erosion is observed, additional mulch must be applied. Netting shall be inspected after rainstorms for dislocation or failure; any damage shall be repaired immediately.

All denuded surfaces which will be exposed for a period of over two months or more shall be temporarily hydroseeded with (a) perennial ryegrass at a rate of 40 lbs per acre (1.0 lb per 1000 square feet); (b) Certified "Aroostook" winter rye (cereal rye) @ 100 lb per acre (2.5 lb/1000 s.f.) to be used in the months of October and November.

Permanent turfgrass cover is to consist of a seed mixture as follows:

(a) Sunny sites

| | |
|--------------------|---------------------------------|
| Kentucky Bluegrass | 2.0-2.6 pounds/1000 square feet |
| Perennial Ryegrass | 0.6-0.7 pounds/1000 square feet |
| Fine Fescue | 0.4-0.6 pounds/1000 square feet |

(b) Shady sites

| | |
|--------------------|---------------------------------|
| Kentucky Bluegrass | 0.8-1.0 pounds/1000 square feet |
| Perennial Ryegrass | 0.6-0.7 pounds/1000 square feet |
| Fine Fescue | 2.6-3.3 pounds/1000 square feet |

All plant materials shall comply with the standards of the American Association Of Nurserymen with respect to height and caliper as described in its publication American Standard for Nursery Stock, latest edition.

VII. CONSTRUCTION PHASE AND POST-CONSTRUCTION MAINTENANCE

During the construction phase and following construction of the project, a number of maintenance measures will be taken with respect to the site maintenance. Measures to be taken included the following:

I. During Construction

The area of proposed ground disturbance will at times exceed five (5) acres. Therefore, and in accordance with NYSDEC SPDES General Permit No. GP-0-20-001 effective January 29, 2020 written authorization by the MS4 (Town of North Castle) to disturb greater than five (5) acres of soil at any one time is hereby requested, subject to the following provisions:

- i. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- ii. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, last revised November 2016.
- iii. The owner or operator shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- iv. The owner or operator shall install any additional site-specific practices needed to protect water quality.
- v. The owner or operator shall include the requirements above in their SWPPP.

The minimum number of required weekly inspections will be two (2) erosion control inspections shall be made at the site every seven (7) calendar days.

In the circumstance of greater than five (5) acres of soil be disturbed at any one time, and the activity be temporarily or permanently ceased, then soil stabilization measures shall be initiated by the end of the next business day and completed within seven (7) days from ceasing activity.

A qualified professional acceptable to the municipality will be hired by the owner or operator to monitor the installation and maintenance of the sediment and erosion control plans. The qualified professional shall report directly to the Engineering Consultant and shall be responsible for ensuring compliance with the design of the sediment and erosion control plans.

In the event that there has been a variance with the design of the sediment and erosion control measures so that the ability of the measures to adequately perform the intended function is lessened or compromised and/or the facilities are not adequately maintained, the qualified professional shall be required to report such variance to the Engineering Consultant within 48 hours and shall be empowered to order immediate repairs to the sediment and erosion control measures.

The qualified professional will also be responsible for observing the adequacy of the vegetation growth (trees, shrubs, groundcovers and turfgrasses) in newly graded areas and for ordering additional plantings in the event that the established plant materials do not adequately protect the ground surface from erosion.

2. Following Construction

Site maintenance activities on the property will include:

- Grounds maintenance, including mowing of lawns;
- Planting of trees, shrubs and groundcovers; pruning of trees and shrubs;
- Application of fertilizer and herbicides;
- Maintenance of stormwater management area;

Grounds maintenance on the site will be performed by landscaping contractor.

Fertilizer is typically applied twice in the year - once in the spring and once in the fall. The application of fertilizer is usually necessary to maintain healthy lawn growth due to competition for nutrients with trees and shrubs and since the clippings are often removed. It is not recommended that fertilizer be applied during the summer. It is at this time that lawns are typically dormant.

Fertilizers come in three basic types: (1) Organic; (2) Soluble synthetic and (3) Slow release.

Organic fertilizers are derived from plant or animal waste. Since they are heavier and bulkier than other fertilizers, it is necessary to apply a much greater amount at one time. Soluble synthetic fertilizers are predictable with determining the exact impact on a lawn. However more applications are necessary since their effect is often short term. Slow release fertilizers have a high percentage of nitrogen so quantities that need be handled at one time are smaller. Slow release fertilizers will be utilized by the project.

A complete fertilizer contains all three of the primary nutrients - nitrogen (N), phosphorus (P) and potassium in the form of potash (K). Typically, a 3-1-2 ratio of nutrients (N-P-K) is used for lawn applications.

Fertilizer shall be applied by the landscape contractor in accordance with the manufacturer's instructions. The application of fertilizer does require some skill on the part of the operator. Should there be a spill of fertilizer, the landscape contractor shall be required to scrape or vacuum it up. The area will then be watered in accordance with the manufacturer's instructions to ensure that the fertilizer becomes soluble and available to plants and does not run off.

Summit Club Partners, LLC will be responsible for the long-term operation and maintenance of the permanent stormwater management practices. The permanent stormwater management practices shall be maintained in accordance with the Maintenance Inspection Checklists provided in Appendix D.

VIII. CONCLUSION

This Stormwater Pollution Prevention Plan has been prepared to describe the project's pre and post-development stormwater management improvements and its sediment and erosion control improvements to be utilized during construction. The proposed permanent improvements and the interim improvements to be utilized during construction have been designed in accordance with the requirements of the:

- Requirements of the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit No. GP-0-20-001, effective January 29, 2020.
- Chapter 267 "Stormwater Management" of the Town of North Castle Zoning Code
- New York State Stormwater Management Design Manual.

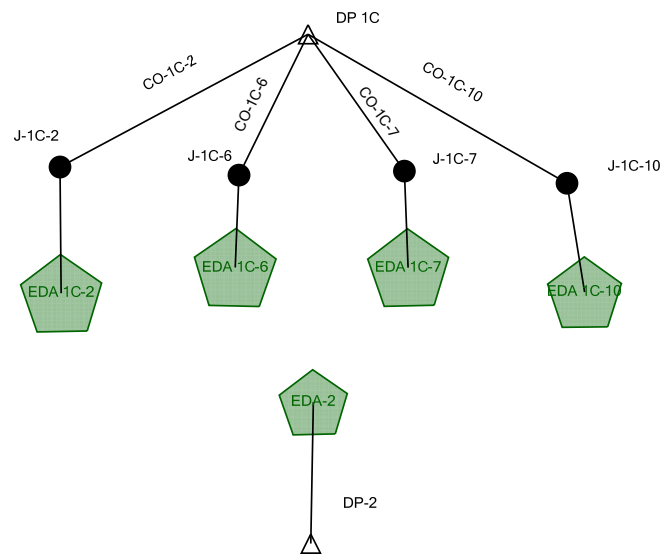
The project employs a variety of practices to enhance stormwater quality and reduce peak rates of runoff associated with the proposed improvements. These measures include an infiltration basin, detention basin, and porous pavement.

Based on the foregoing, it is our professional opinion that the proposed improvements will provide water quantity and quality enhancements which exceed the above mentioned requirements and are not anticipated to have any adverse impacts to the site or any surrounding areas.

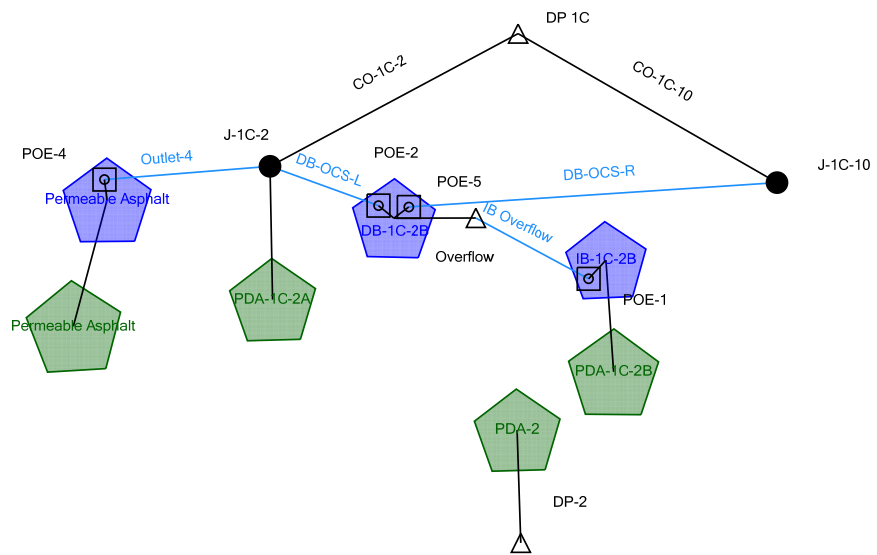
APPENDIX A

***EXISTING AND PROPOSED HYDROLOGIC
CALCULATIONS***

Scenario: Pre-Development 1 year



Scenario: Post-Development 1 year



Stormwater Hydrologic Calculations

Project Summary

| | |
|----------|------------------------------|
| Title | The Summit Club at Armonk |
| Engineer | Michael Thompson, PE |
| Company | JMC, PLLC |
| Date | 1/10/2022 |

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Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Catchments Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|-----------|--------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| EDA 1C-2 | Pre-Development 1 year | 1 | 50,159 | 12.250 | 10.75 |
| EDA 1C-2 | Pre-Development 10 year | 10 | 136,541 | 12.200 | 30.02 |
| EDA 1C-2 | Pre-Development 25 year | 25 | 190,446 | 12.200 | 41.73 |
| EDA 1C-2 | Pre-Development 100 year | 100 | 305,340 | 12.200 | 65.98 |
| EDA 1C-6 | Pre-Development 1 year | 1 | 570 | 12.150 | 0.12 |
| EDA 1C-6 | Pre-Development 10 year | 10 | 2,282 | 12.100 | 0.60 |
| EDA 1C-6 | Pre-Development 25 year | 25 | 3,494 | 12.100 | 0.94 |
| EDA 1C-6 | Pre-Development 100 year | 100 | 6,254 | 12.100 | 1.71 |
| EDA 1C-7 | Pre-Development 1 year | 1 | 5,095 | 12.200 | 1.16 |
| EDA 1C-7 | Pre-Development 10 year | 10 | 15,216 | 12.150 | 3.61 |
| EDA 1C-7 | Pre-Development 25 year | 25 | 21,734 | 12.150 | 5.18 |
| EDA 1C-7 | Pre-Development 100 year | 100 | 35,850 | 12.150 | 8.48 |
| EDA 1C-10 | Pre-Development 1 year | 1 | 8,426 | 12.150 | 1.80 |
| EDA 1C-10 | Pre-Development 10 year | 10 | 32,561 | 12.150 | 8.53 |
| EDA 1C-10 | Pre-Development 25 year | 25 | 49,470 | 12.150 | 13.10 |
| EDA 1C-10 | Pre-Development 100 year | 100 | 87,757 | 12.150 | 23.15 |
| EDA-2 | Pre-Development 1 year | 1 | 12,744 | 12.150 | 3.15 |
| EDA-2 | Pre-Development 10 year | 10 | 35,467 | 12.150 | 9.00 |
| EDA-2 | Pre-Development 25 year | 25 | 49,754 | 12.150 | 12.55 |
| EDA-2 | Pre-Development 100 year | 100 | 80,319 | 12.150 | 19.92 |
| PDA-1C-2A | Post-Development 1 year | 1 | 27,313 | 12.200 | 6.18 |
| PDA-1C-2A | Post-Development 10 year | 10 | 69,692 | 12.200 | 15.82 |
| PDA-1C-2A | Post-Development 25 year | 25 | 95,575 | 12.200 | 21.49 |

Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Catchments Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|-------------------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| PDA-1C-2A | Post-Development 100 year | 100 | 150,166 | 12.200 | 33.10 |
| PDA-1C-2B | Post-Development 1 year | 1 | 53,690 | 12.150 | 13.72 |
| PDA-1C-2B | Post-Development 10 year | 10 | 146,107 | 12.150 | 37.70 |
| PDA-1C-2B | Post-Development 25 year | 25 | 203,773 | 12.150 | 52.09 |
| PDA-1C-2B | Post-Development 100 year | 100 | 326,676 | 12.150 | 81.79 |
| PDA-2 | Post-Development 1 year | 1 | 8,325 | 12.150 | 1.94 |
| PDA-2 | Post-Development 10 year | 10 | 26,143 | 12.150 | 6.62 |
| PDA-2 | Post-Development 25 year | 25 | 37,815 | 12.150 | 9.60 |
| PDA-2 | Post-Development 100 year | 100 | 63,317 | 12.150 | 15.93 |
| Permeable Asphalt | Post-Development 1 year | 1 | 3,850 | 12.100 | 0.96 |
| Permeable Asphalt | Post-Development 10 year | 10 | 7,318 | 12.100 | 1.78 |
| Permeable Asphalt | Post-Development 25 year | 25 | 9,294 | 12.100 | 2.24 |
| Permeable Asphalt | Post-Development 100 year | 100 | 13,337 | 12.100 | 3.18 |

Node Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|-------|--------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| DP-2 | Pre-Development 1 year | 1 | 12,744 | 12.150 | 3.15 |
| DP-2 | Post-Development 1 year | 1 | 8,325 | 12.150 | 1.94 |
| DP-2 | Pre-Development 10 year | 10 | 35,467 | 12.150 | 9.00 |
| DP-2 | Post-Development 10 year | 10 | 26,143 | 12.150 | 6.62 |
| DP-2 | Pre-Development 25 year | 25 | 49,754 | 12.150 | 12.55 |
| DP-2 | Post-Development 25 year | 25 | 37,815 | 12.150 | 9.60 |
| DP-2 | Pre-Development 100 year | 100 | 80,319 | 12.150 | 19.92 |

Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Node Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|--------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| DP-2 | Post-Development 100 year | 100 | 63,317 | 12.150 | 15.93 |
| DP 1C | Pre-Development 1 year | 1 | 64,087 | 12.350 | 13.53 |
| DP 1C | Post-Development 1 year | 1 | 27,251 | 12.350 | 6.18 |
| DP 1C | Pre-Development 10 year | 10 | 186,221 | 12.350 | 41.12 |
| DP 1C | Post-Development 10 year | 10 | 132,258 | 12.450 | 26.38 |
| DP 1C | Pre-Development 25 year | 25 | 264,642 | 12.350 | 58.24 |
| DP 1C | Post-Development 25 year | 25 | 203,757 | 12.400 | 43.84 |
| DP 1C | Pre-Development 100 year | 100 | 434,447 | 12.300 | 95.31 |
| DP 1C | Post-Development 100 year | 100 | 363,166 | 12.400 | 82.49 |
| J-1C-2 | Pre-Development 1 year | 1 | 50,159 | 12.250 | 10.75 |
| J-1C-2 | Post-Development 1 year | 1 | 27,313 | 12.200 | 6.18 |
| J-1C-2 | Pre-Development 10 year | 10 | 136,541 | 12.200 | 30.02 |
| J-1C-2 | Post-Development 10 year | 10 | 101,036 | 12.250 | 20.31 |
| J-1C-2 | Pre-Development 25 year | 25 | 190,446 | 12.200 | 41.73 |
| J-1C-2 | Post-Development 25 year | 25 | 149,745 | 12.250 | 32.13 |
| J-1C-2 | Pre-Development 100 year | 100 | 305,340 | 12.200 | 65.98 |
| J-1C-2 | Post-Development 100 year | 100 | 266,854 | 12.250 | 65.02 |
| J-1C-6 | Pre-Development 1 year | 1 | 570 | 12.150 | 0.12 |
| J-1C-6 | Pre-Development 10 year | 10 | 2,282 | 12.100 | 0.60 |
| J-1C-6 | Pre-Development 25 year | 25 | 3,494 | 12.100 | 0.94 |
| J-1C-6 | Pre-Development 100 year | 100 | 6,254 | 12.100 | 1.71 |
| J-1C-7 | Pre-Development 1 year | 1 | 5,095 | 12.200 | 1.16 |
| J-1C-7 | Pre-Development 10 year | 10 | 15,216 | 12.150 | 3.61 |

Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Node Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) |
|---------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|
| J-1C-7 | Pre-Development 25 year | 25 | 21,734 | 12.150 | 5.18 |
| J-1C-7 | Pre-Development 100 year | 100 | 35,850 | 12.150 | 8.48 |
| J-1C-10 | Pre-Development 1 year | 1 | 8,426 | 12.150 | 1.80 |
| J-1C-10 | Post-Development 1 year | 1 | 0 | 0.000 | 0.00 |
| J-1C-10 | Pre-Development 10 year | 10 | 32,561 | 12.150 | 8.53 |
| J-1C-10 | Post-Development 10 year | 10 | 31,354 | 12.450 | 6.97 |
| J-1C-10 | Pre-Development 25 year | 25 | 49,470 | 12.150 | 13.10 |
| J-1C-10 | Post-Development 25 year | 25 | 54,184 | 12.350 | 12.48 |
| J-1C-10 | Pre-Development 100 year | 100 | 87,757 | 12.150 | 23.15 |
| J-1C-10 | Post-Development 100 year | 100 | 96,564 | 12.250 | 17.47 |

Pond Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) | Maximum Water Surface Elevation (ft) | Maximum Pond Storage (ft ³) |
|----------------|--------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|--------------------------------------|---|
| IB-1C-2B (IN) | Post-Development 1 year | 1 | 53,690 | 12.150 | 13.72 | (N/A) | (N/A) |
| IB-1C-2B (OUT) | Post-Development 1 year | 1 | 0 | 0.000 | 0.00 | 619.99 | 19,929 |
| IB-1C-2B (IN) | Post-Development 10 year | 10 | 146,107 | 12.150 | 37.70 | (N/A) | (N/A) |
| IB-1C-2B (OUT) | Post-Development 10 year | 10 | 62,706 | 12.200 | 26.91 | 620.87 | 32,874 |
| IB-1C-2B (IN) | Post-Development 25 year | 25 | 203,773 | 12.150 | 52.09 | (N/A) | (N/A) |
| IB-1C-2B (OUT) | Post-Development 25 year | 25 | 108,364 | 12.150 | 37.30 | 621.28 | 38,870 |

Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Pond Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) | Maximum Water Surface Elevation (ft) | Maximum Pond Storage (ft ³) |
|-------------------------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|--------------------------------------|---|
| IB-1C-2B (IN) | Post-Development 100 year | 100 | 326,676 | 12.150 | 81.79 | (N/A) | (N/A) |
| IB-1C-2B (OUT) | Post-Development 100 year | 100 | 213,275 | 12.150 | 60.39 | 621.96 | 48,968 |
| DB-1C-2B (IN) | Post-Development 1 year | 1 | 0 | 0.000 | 0.00 | (N/A) | (N/A) |
| DB-1C-2B (OUT) | Post-Development 1 year | 1 | 0 | 0.000 | 0.00 | 620.00 | 0 |
| DB-1C-2B (IN) | Post-Development 10 year | 10 | 62,706 | 12.200 | 26.91 | (N/A) | (N/A) |
| DB-1C-2B (OUT) | Post-Development 10 year | 10 | 62,698 | 12.450 | 13.94 | 620.84 | 11,823 |
| DB-1C-2B (IN) | Post-Development 25 year | 25 | 108,364 | 12.150 | 37.30 | (N/A) | (N/A) |
| DB-1C-2B (OUT) | Post-Development 25 year | 25 | 108,354 | 12.350 | 24.96 | 621.24 | 17,430 |
| DB-1C-2B (IN) | Post-Development 100 year | 100 | 213,275 | 12.150 | 60.39 | (N/A) | (N/A) |
| DB-1C-2B (OUT) | Post-Development 100 year | 100 | 213,250 | 12.250 | 51.19 | 621.92 | 26,897 |
| Permeable Asphalt (IN) | Post-Development 1 year | 1 | 3,850 | 12.100 | 0.96 | (N/A) | (N/A) |
| Permeable Asphalt (OUT) | Post-Development 1 year | 1 | 0 | 0.000 | 0.00 | 634.50 | 1,300 |
| Permeable Asphalt (IN) | Post-Development 10 year | 10 | 7,318 | 12.100 | 1.78 | (N/A) | (N/A) |
| Permeable Asphalt (OUT) | Post-Development 10 year | 10 | 0 | 0.000 | 0.00 | 634.66 | 2,419 |
| Permeable Asphalt (IN) | Post-Development 25 year | 25 | 9,294 | 12.100 | 2.24 | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Master Network Summary

Pond Summary

| Label | Scenario | Return Event (years) | Hydrograph Volume (ft ³) | Time to Peak (hours) | Peak Flow (ft ³ /s) | Maximum Water Surface Elevation (ft) | Maximum Pond Storage (ft ³) |
|-------------------------|---------------------------|----------------------|--------------------------------------|----------------------|--------------------------------|--------------------------------------|---|
| Permeable Asphalt (OUT) | Post-Development 25 year | 25 | 0 | 0.000 | 0.00 | 634.74 | 3,052 |
| Permeable Asphalt (IN) | Post-Development 100 year | 100 | 13,337 | 12.100 | 3.18 | (N/A) | (N/A) |
| Permeable Asphalt (OUT) | Post-Development 100 year | 100 | 0 | 0.000 | 0.00 | 634.94 | 4,485 |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 1 years

Label: Time-Depth - 1

Storm Event: 1 year

Scenario: Pre-Development 1 year

| | |
|--------------------------|--------------|
| Time-Depth Curve: 1 year | |
| Label | 1 year |
| Start Time | 0.000 hours |
| Increment | 0.100 hours |
| End Time | 24.000 hours |
| Return Event | 1 years |

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|--------------|------------|------------|------------|------------|------------|
| 0.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.500 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.500 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 2.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 3.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 3.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4.500 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| 5.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 5.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 6.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 6.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 7.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 7.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 8.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 8.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 9.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| 9.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 10.000 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| 10.500 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 |
| 11.000 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 |
| 11.500 | 0.8 | 0.9 | 1.0 | 1.0 | 1.2 |
| 12.000 | 1.4 | 1.6 | 1.8 | 1.8 | 1.9 |
| 12.500 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 |
| 13.000 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 |
| 13.500 | 2.2 | 2.2 | 2.2 | 2.2 | 2.3 |
| 14.000 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 14.500 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 |
| 15.000 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 15.500 | 2.4 | 2.4 | 2.5 | 2.5 | 2.5 |
| 16.000 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 16.500 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 1 years

Label: Time-Depth - 1

Storm Event: 1 year

Scenario: Pre-Development 1 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 |
| 17.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 18.000 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 18.500 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 19.000 | 2.6 | 2.6 | 2.6 | 2.7 | 2.7 |
| 19.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 20.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 20.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 21.000 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 21.500 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 22.000 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 |
| 22.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 23.000 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 23.500 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 24.000 | 2.8 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 10 years

Label: Time-Depth - 1

Storm Event: 10 year

Scenario: Pre-Development 10 year

Time-Depth Curve: 10 year

| | |
|--------------|--------------|
| Label | 10 year |
| Start Time | 0.000 hours |
| Increment | 0.100 hours |
| End Time | 24.000 hours |
| Return Event | 10 years |

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|-----------------|---------------|---------------|---------------|---------------|---------------|
| 0.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.500 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 3.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 3.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 4.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 4.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 5.500 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 6.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 6.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| 7.000 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 7.500 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 8.000 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 8.500 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 9.000 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 9.500 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 10.000 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 |
| 10.500 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 |
| 11.000 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 |
| 11.500 | 1.5 | 1.6 | 1.7 | 1.9 | 2.1 |
| 12.000 | 2.6 | 3.0 | 3.2 | 3.4 | 3.5 |
| 12.500 | 3.6 | 3.7 | 3.7 | 3.8 | 3.8 |
| 13.000 | 3.8 | 3.9 | 3.9 | 3.9 | 4.0 |
| 13.500 | 4.0 | 4.0 | 4.1 | 4.1 | 4.1 |
| 14.000 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 14.500 | 4.3 | 4.3 | 4.3 | 4.3 | 4.4 |
| 15.000 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 15.500 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 16.000 | 4.5 | 4.5 | 4.6 | 4.6 | 4.6 |
| 16.500 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 10 years

Label: Time-Depth - 1

Storm Event: 10 year

Scenario: Pre-Development 10 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 17.500 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 18.000 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 18.500 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 19.000 | 4.8 | 4.8 | 4.8 | 4.9 | 4.9 |
| 19.500 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 20.000 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 20.500 | 4.9 | 4.9 | 4.9 | 5.0 | 5.0 |
| 21.000 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 21.500 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 22.000 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 22.500 | 5.0 | 5.1 | 5.1 | 5.1 | 5.1 |
| 23.000 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 23.500 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 24.000 | 5.1 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 100 years

Label: Time-Depth - 1

Storm Event: 100 year

Scenario: Pre-Development 100 year

Time-Depth Curve: 100 year

| | |
|--------------|--------------|
| Label | 100 year |
| Start Time | 0.000 hours |
| Increment | 0.100 hours |
| End Time | 24.000 hours |
| Return Event | 100 years |

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|-----------------|---------------|---------------|---------------|---------------|---------------|
| 0.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.500 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1.500 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| 2.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 2.500 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| 3.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 3.500 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 |
| 4.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 4.500 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 5.000 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 5.500 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 6.000 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 6.500 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 7.000 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| 7.500 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 8.000 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 8.500 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 |
| 9.000 | 1.3 | 1.4 | 1.4 | 1.4 | 1.5 |
| 9.500 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 |
| 10.000 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 |
| 10.500 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 |
| 11.000 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 |
| 11.500 | 2.7 | 2.9 | 3.1 | 3.4 | 3.8 |
| 12.000 | 4.6 | 5.3 | 5.7 | 6.0 | 6.3 |
| 12.500 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 |
| 13.000 | 6.9 | 6.9 | 7.0 | 7.0 | 7.1 |
| 13.500 | 7.2 | 7.2 | 7.3 | 7.3 | 7.4 |
| 14.000 | 7.4 | 7.5 | 7.5 | 7.5 | 7.6 |
| 14.500 | 7.6 | 7.7 | 7.7 | 7.7 | 7.8 |
| 15.000 | 7.8 | 7.8 | 7.9 | 7.9 | 7.9 |
| 15.500 | 8.0 | 8.0 | 8.0 | 8.0 | 8.1 |
| 16.000 | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 |
| 16.500 | 8.2 | 8.2 | 8.3 | 8.3 | 8.3 |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 100 years

Label: Time-Depth - 1

Storm Event: 100 year

Scenario: Pre-Development 100 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 8.3 | 8.3 | 8.4 | 8.4 | 8.4 |
| 17.500 | 8.4 | 8.4 | 8.4 | 8.5 | 8.5 |
| 18.000 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 18.500 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 19.000 | 8.6 | 8.6 | 8.6 | 8.7 | 8.7 |
| 19.500 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 20.000 | 8.7 | 8.8 | 8.8 | 8.8 | 8.8 |
| 20.500 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 21.000 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 21.500 | 8.9 | 8.9 | 8.9 | 8.9 | 9.0 |
| 22.000 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 22.500 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 23.000 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 23.500 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 24.000 | 9.1 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 25 years

Label: Time-Depth - 1

Storm Event: 25 year

Scenario: Pre-Development 25 year

Time-Depth Curve: 25 year

| | |
|--------------|--------------|
| Label | 25 year |
| Start Time | 0.000 hours |
| Increment | 0.100 hours |
| End Time | 24.000 hours |
| Return Event | 25 years |

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|-----------------|---------------|---------------|---------------|---------------|---------------|
| 0.000 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.500 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 1.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 1.500 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2.000 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 2.500 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 3.000 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 3.500 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| 4.000 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 4.500 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 5.000 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 5.500 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| 6.000 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 6.500 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| 7.000 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 7.500 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 8.000 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| 8.500 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 |
| 9.000 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 9.500 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 |
| 10.000 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 |
| 10.500 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 |
| 11.000 | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 |
| 11.500 | 1.9 | 2.0 | 2.2 | 2.4 | 2.7 |
| 12.000 | 3.2 | 3.8 | 4.0 | 4.3 | 4.4 |
| 12.500 | 4.5 | 4.6 | 4.7 | 4.7 | 4.8 |
| 13.000 | 4.8 | 4.9 | 4.9 | 5.0 | 5.0 |
| 13.500 | 5.0 | 5.1 | 5.1 | 5.2 | 5.2 |
| 14.000 | 5.2 | 5.3 | 5.3 | 5.3 | 5.3 |
| 14.500 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 |
| 15.000 | 5.5 | 5.5 | 5.5 | 5.6 | 5.6 |
| 15.500 | 5.6 | 5.6 | 5.7 | 5.7 | 5.7 |
| 16.000 | 5.7 | 5.7 | 5.7 | 5.8 | 5.8 |
| 16.500 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |

Stormwater Hydrologic Calculations

Subsection: Time-Depth Curve

Return Event: 25 years

Label: Time-Depth - 1

Storm Event: 25 year

Scenario: Pre-Development 25 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

| Time (hours) | Depth (in) | Depth (in) | Depth (in) | Depth (in) | Depth (in) |
|--------------|------------|------------|------------|------------|------------|
| 17.000 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 17.500 | 5.9 | 5.9 | 5.9 | 6.0 | 6.0 |
| 18.000 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 18.500 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 |
| 19.000 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 19.500 | 6.1 | 6.1 | 6.1 | 6.1 | 6.2 |
| 20.000 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 20.500 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 21.000 | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 |
| 21.500 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 22.000 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 22.500 | 6.3 | 6.4 | 6.4 | 6.4 | 6.4 |
| 23.000 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 23.500 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 24.000 | 6.4 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.040 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.23 ft/s |
| Segment Time of Concentration | 0.120 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 405.00 ft |
| Is Paved? | False |
| Slope | 0.079 ft/ft |
| Average Velocity | 4.53 ft/s |
| Segment Time of Concentration | 0.025 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 0.145 hours |
|-----------------------------------|-------------|

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

| Segment #1: TR-55 Sheet Flow | |
|---|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.020 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.18 ft/s |
| Segment Time of Concentration | 0.158 hours |
| Segment #2: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 2,090.00 ft |
| Is Paved? | False |
| Slope | 0.063 ft/ft |
| Average Velocity | 4.05 ft/s |
| Segment Time of Concentration | 0.143 hours |
| Time of Concentration (Composite) | |
| Time of Concentration (Composite) | 0.302 hours |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

| Segment #1: TR-55 Sheet Flow | |
|---|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.040 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.23 ft/s |
| Segment Time of Concentration | 0.120 hours |
| Segment #2: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 24.00 ft |
| Is Paved? | False |
| Slope | 0.040 ft/ft |
| Average Velocity | 3.23 ft/s |
| Segment Time of Concentration | 0.002 hours |
| Time of Concentration (Composite) | |
| Time of Concentration (Composite) | 0.122 hours |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

| Segment #1: TR-55 Sheet Flow | |
|---|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.220 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.46 ft/s |
| Segment Time of Concentration | 0.061 hours |
| Segment #2: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 1,250.00 ft |
| Is Paved? | False |
| Slope | 0.016 ft/ft |
| Average Velocity | 2.04 ft/s |
| Segment Time of Concentration | 0.170 hours |
| Time of Concentration (Composite) | |
| Time of Concentration (Composite) | 0.231 hours |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA 1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

$$\text{Where: } \frac{(L_f / V) / 3600}{R = \text{Hydraulic radius}} \\ A_q = \text{Flow area, square feet} \\ W_p = \text{Wetted perimeter, feet} \\ V = \text{Velocity, ft/sec} \\ S_f = \text{Slope, ft/ft} \\ n = \text{Manning's n} \\ T_c = \text{Time of concentration, hours} \\ L_f = \text{Flow length, feet}$$

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:} \\ V = 20.3282 * (S_f^{0.5})$$

$$\text{Where: } \frac{(L_f / V) / 3600}{V = \text{Velocity, ft/sec}} \\ S_f = \text{Slope, ft/ft} \\ T_c = \text{Time of concentration, hours} \\ L_f = \text{Flow length, feet}$$

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.060 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.27 ft/s |
| Segment Time of Concentration | 0.102 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 945.00 ft |
| Is Paved? | False |
| Slope | 0.034 ft/ft |
| Average Velocity | 2.98 ft/s |
| Segment Time of Concentration | 0.088 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 0.190 hours |
|-----------------------------------|-------------|

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: EDA-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-1C-2A

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

| Segment #1: TR-55 Sheet Flow | |
|---|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.030 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.21 ft/s |
| Segment Time of Concentration | 0.135 hours |
| Segment #2: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 51.00 ft |
| Is Paved? | False |
| Slope | 0.040 ft/ft |
| Average Velocity | 3.23 ft/s |
| Segment Time of Concentration | 0.004 hours |
| Segment #3: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 705.00 ft |
| Is Paved? | True |
| Slope | 0.011 ft/ft |
| Average Velocity | 2.13 ft/s |
| Segment Time of Concentration | 0.092 hours |
| Segment #4: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 847.00 ft |
| Is Paved? | False |
| Slope | 0.099 ft/ft |
| Average Velocity | 5.08 ft/s |
| Segment Time of Concentration | 0.046 hours |
| Time of Concentration (Composite) | |
| Time of Concentration (Composite) | 0.277 hours |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-1C-2A

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-1C-2B

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

| Segment #1: TR-55 Sheet Flow | |
|---|---------------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.040 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.23 ft/s |
| Segment Time of Concentration | 0.120 hours |
| Segment #2: TR-55 Shallow Concentrated Flow | |
| Hydraulic Length | 650.00 ft |
| Is Paved? | False |
| Slope | 0.060 ft/ft |
| Average Velocity | 3.95 ft/s |
| Segment Time of Concentration | 0.046 hours |
| Segment #3: TR-55 Channel Flow | |
| Flow Area | 1.2 ft ² |
| Hydraulic Length | 272.00 ft |
| Manning's n | 0.011 |
| Slope | 0.058 ft/ft |
| Wetted Perimeter | 3.93 ft |
| Average Velocity | 14.97 ft/s |
| Segment Time of Concentration | 0.005 hours |
| Time of Concentration (Composite) | |
| Time of Concentration (Composite) | 0.171 hours |

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-1C-2B

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

$$T_c = \frac{(0.007 * ((n * L_f)^{0.8}))}{((P^{0.5}) * (S_f^{0.4}))}$$

Where: Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 100.00 ft |
| Manning's n | 0.150 |
| Slope | 0.060 ft/ft |
| 2 Year 24 Hour Depth | 3.4 in |
| Average Velocity | 0.27 ft/s |
| Segment Time of Concentration | 0.102 hours |

Segment #2: TR-55 Shallow Concentrated Flow

| | |
|-------------------------------|-------------|
| Hydraulic Length | 945.00 ft |
| Is Paved? | False |
| Slope | 0.034 ft/ft |
| Average Velocity | 2.98 ft/s |
| Segment Time of Concentration | 0.088 hours |

Time of Concentration (Composite)

| | |
|-----------------------------------|-------------|
| Time of Concentration (Composite) | 0.190 hours |
|-----------------------------------|-------------|

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: PDA-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== SCS Channel Flow

$$T_c = \frac{R = Q_a / W_p}{V = (1.49 * (R^{2/3}) * (S_f^{-0.5})) / n}$$

Where: $(L_f / V) / 3600$
R= Hydraulic radius
A_q= Flow area, square feet
W_p= Wetted perimeter, feet
V= Velocity, ft/sec
S_f= Slope, ft/ft
n= Manning's n
T_c= Time of concentration, hours
L_f= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

$$T_c = \frac{\text{Unpaved surface:}}{V = 16.1345 * (S_f^{0.5})}$$

$$\text{Paved Surface:}$$
$$V = 20.3282 * (S_f^{0.5})$$

Where: $(L_f / V) / 3600$
V= Velocity, ft/sec
S_f= Slope, ft/ft
T_c= Time of concentration, hours
L_f= Flow length, feet

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: Permeable Asphalt

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Time of Concentration Results

Segment #1: User Defined Tc

| | |
|-----------------------|-------------|
| Time of Concentration | 0.083 hours |
|-----------------------|-------------|

Time of Concentration (Composite)

| | |
|--------------------------------------|-------------|
| Time of Concentration (Composite) | 0.083 hours |
|--------------------------------------|-------------|

Stormwater Hydrologic Calculations

Subsection: Time of Concentration Calculations

Label: Permeable Asphalt

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

==== User Defined

Tc = Value entered by user

Where: Tc= Time of concentration, hours

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: EDA 1C-10
 Scenario: Pre-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 12,431 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 139,499 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 55,495 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 207,425 | (N/A) | (N/A) | 66.695 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: EDA 1C-2
 Scenario: Pre-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 220,539 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 141,879 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 185,851 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 548,269 | (N/A) | (N/A) | 80.290 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: EDA 1C-6
 Scenario: Pre-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|--|--------|----------------------------|----------|-----------|-------------|
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 5,565 | 0.0 | 0.0 | 74.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 9,586 | 0.0 | 0.0 | 61.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 15,151 | (N/A) | (N/A) | 65.775 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: EDA 1C-7
 Scenario: Pre-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 18,249 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 23,115 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 28,113 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 69,477 | (N/A) | (N/A) | 75.979 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: EDA-2
 Scenario: Pre-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 32,054 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 4,452 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 110,290 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 146,796 | (N/A) | (N/A) | 78.846 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: PDA-1C-2A
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 124,252 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 48,193 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 82,975 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 255,420 | (N/A) | (N/A) | 83.222 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: PDA-1C-2B
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 253,721 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B | 61.000 | 197,857 | 0.0 | 0.0 | 61.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 134,359 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 585,937 | (N/A) | (N/A) | 80.003 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: PDA-2
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|----------------------------|----------|-----------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil C | 98.000 | 1,533 | 0.0 | 0.0 | 98.000 |
| Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C | 74.000 | 126,260 | 0.0 | 0.0 | 74.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 127,793 | (N/A) | (N/A) | 74.288 |

Stormwater Hydrologic Calculations

Subsection: Runoff CN-Area
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Runoff Curve Number Data

| Soil/Surface Description | CN | Area (ft ²) | C (%) | UC (%) | Adjusted CN |
|---|--------|-------------------------|-------|--------|-------------|
| Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil B | 98.000 | 17,994 | 0.0 | 0.0 | 98.000 |
| COMPOSITE AREA & WEIGHTED CN ---> | (N/A) | 17,994 | (N/A) | (N/A) | 98.000 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|---|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.145 hours |
| Area (User Defined) | 207,425 ft ² |
| <hr/> | |
| Computational Time Increment | 0.019 hours |
| Time to Peak (Computed) | 12.150 hours |
| Flow (Peak, Computed) | 1.80 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 1.80 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 67.000 |
| Area (User Defined) | 207,425 ft ² |
| Maximum Retention (Pervious) | 4.9 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.5 in |
| Runoff Volume (Pervious) | 8,447 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 8,426 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.145 hours |
| Computational Time Increment | 0.019 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 37.24 ft ³ /s |
| Unit peak time, Tp | 0.097 hours |
| Unit receding limb, Tr | 0.386 hours |
| Total unit time, Tb | 0.483 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|--|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.145 hours |
| Area (User Defined) | 207,425 ft ² |
| <hr/> | |
| Computational Time Increment | 0.019 hours |
| Time to Peak (Computed) | 12.130 hours |
| Flow (Peak, Computed) | 8.60 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 8.53 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 67.000 |
| Area (User Defined) | 207,425 ft ² |
| Maximum Retention (Pervious) | 4.9 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.9 in |
| Runoff Volume (Pervious) | 32,619 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 32,561 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.145 hours |
| Computational Time Increment | 0.019 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 37.24 ft ³ /s |
| Unit peak time, Tp | 0.097 hours |
| Unit receding limb, Tr | 0.386 hours |
| Total unit time, Tb | 0.483 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|---|--------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.145 hours |
| Area (User Defined) | 207,425 ft ² |
| <hr/> | |
| Computational Time Increment | 0.019 hours |
| Time to Peak (Computed) | 12.130 hours |
| Flow (Peak, Computed) | 13.28 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 13.10 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 67.000 |
| Area (User Defined) | 207,425 ft ² |
| Maximum Retention (Pervious) | 4.9 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.9 in |
| Runoff Volume (Pervious) | 49,550 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 49,470 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.145 hours |
| Computational Time Increment | 0.019 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 37.24 ft ³ /s |
| Unit peak time, Tp | 0.097 hours |
| Unit receding limb, Tr | 0.386 hours |
| Total unit time, Tb | 0.483 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: EDA 1C-10

Storm Event: 100 year

Scenario: Pre-Development 100 year

| | |
|---|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.145 hours |
| Area (User Defined) | 207,425 ft ² |
| <hr/> | |
| Computational Time Increment | 0.019 hours |
| Time to Peak (Computed) | 12.130 hours |
| Flow (Peak, Computed) | 23.61 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 23.15 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 67.000 |
| Area (User Defined) | 207,425 ft ² |
| Maximum Retention (Pervious) | 4.9 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 5.1 in |
| Runoff Volume (Pervious) | 87,882 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 87,757 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.145 hours |
| Computational Time Increment | 0.019 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-10

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|------------------------|--------------------------|
| Unit peak, qp | 37.24 ft ³ /s |
| Unit peak time, Tp | 0.097 hours |
| Unit receding limb, Tr | 0.386 hours |
| Total unit time, Tb | 0.483 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|---|--------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.302 hours |
| Area (User Defined) | 548,269 ft ² |
| <hr/> | |
| Computational Time Increment | 0.040 hours |
| Time to Peak (Computed) | 12.232 hours |
| Flow (Peak, Computed) | 10.86 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.250 hours |
| Flow (Peak Interpolated Output) | 10.75 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 548,269 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.1 in |
| Runoff Volume (Pervious) | 50,353 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 50,159 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.302 hours |
| Computational Time Increment | 0.040 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 47.26 ft ³ /s |
| Unit peak time, Tp | 0.201 hours |
| Unit receding limb, Tr | 0.805 hours |
| Total unit time, Tb | 1.006 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|---|--------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.302 hours |
| Area (User Defined) | 548,269 ft ² |
| <hr/> | |
| Computational Time Increment | 0.040 hours |
| Time to Peak (Computed) | 12.232 hours |
| Flow (Peak, Computed) | 30.13 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 30.02 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 548,269 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 3.0 in |
| Runoff Volume (Pervious) | 136,967 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 136,541 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.302 hours |
| Computational Time Increment | 0.040 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 47.26 ft ³ /s |
| Unit peak time, Tp | 0.201 hours |
| Unit receding limb, Tr | 0.805 hours |
| Total unit time, Tb | 1.006 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|--------------------------------------|-------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.302 hours |
| Area (User Defined) | 548,269 ft ² |

| | |
|--|--------------------------|
| Computational Time Increment | 0.040 hours |
| Time to Peak (Computed) | 12.192 hours |
| Flow (Peak, Computed) | 41.73 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 41.73 ft ³ /s |

| | |
|---|-------------------------|
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 548,269 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|-------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 4.2 in |
| Runoff Volume (Pervious) | 191,004 ft ³ |

| | |
|---|-------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 190,446 ft ³ |

| | |
|--------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.302 hours |
| Computational Time Increment | 0.040 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

| | |
|------------------------|--------------------------|
| Unit peak, qp | 47.26 ft ³ /s |
| Unit peak time, Tp | 0.201 hours |
| Unit receding limb, Tr | 0.805 hours |
| Total unit time, Tb | 1.006 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: EDA 1C-2

Storm Event: 100 year

Scenario: Pre-Development 100 year

| | |
|--|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.302 hours |
| Area (User Defined) | 548,269 ft ² |
| <hr/> | |
| Computational Time Increment | 0.040 hours |
| Time to Peak (Computed) | 12.192 hours |
| Flow (Peak, Computed) | 66.05 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 65.98 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 548,269 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.7 in |
| Runoff Volume (Pervious) | 306,164 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 305,340 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.302 hours |
| Computational Time Increment | 0.040 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-2

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|--------------------------|
| Unit peak, q_p | 47.26 ft ³ /s |
| Unit peak time, T_p | 0.201 hours |
| Unit receding limb, T_r | 0.805 hours |
| Total unit time, T_b | 1.006 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|---|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.122 hours |
| Area (User Defined) | 15,151 ft ² |
| <hr/> | |
| Computational Time Increment | 0.016 hours |
| Time to Peak (Computed) | 12.148 hours |
| Flow (Peak, Computed) | 0.12 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 0.12 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 66.000 |
| Area (User Defined) | 15,151 ft ² |
| Maximum Retention (Pervious) | 5.2 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.5 in |
| Runoff Volume (Pervious) | 571 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 570 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.122 hours |
| Computational Time Increment | 0.016 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 3.23 ft ³ /s |
| Unit peak time, Tp | 0.081 hours |
| Unit receding limb, Tr | 0.326 hours |
| Total unit time, Tb | 0.407 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|---|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.122 hours |
| Area (User Defined) | 15,151 ft ² |
| <hr/> | |
| Computational Time Increment | 0.016 hours |
| Time to Peak (Computed) | 12.131 hours |
| Flow (Peak, Computed) | 0.62 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 0.60 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 66.000 |
| Area (User Defined) | 15,151 ft ² |
| Maximum Retention (Pervious) | 5.2 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.8 in |
| Runoff Volume (Pervious) | 2,285 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 2,282 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.122 hours |
| Computational Time Increment | 0.016 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|-------------------------|
| Unit peak, q_p | 3.23 ft ³ /s |
| Unit peak time, T_p | 0.081 hours |
| Unit receding limb, T_r | 0.326 hours |
| Total unit time, T_b | 0.407 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|--|-------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.122 hours |
| Area (User Defined) | 15,151 ft ² |
| Computational Time Increment | 0.016 hours |
| Time to Peak (Computed) | 12.131 hours |
| Flow (Peak, Computed) | 0.96 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 0.94 ft ³ /s |
| Drainage Area | |
| SCS CN (Composite) | 66.000 |
| Area (User Defined) | 15,151 ft ² |
| Maximum Retention (Pervious) | 5.2 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.8 in |
| Runoff Volume (Pervious) | 3,499 ft ³ |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 3,494 ft ³ |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.122 hours |
| Computational Time Increment | 0.016 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 3.23 ft ³ /s |
| Unit peak time, Tp | 0.081 hours |
| Unit receding limb, Tr | 0.326 hours |
| Total unit time, Tb | 0.407 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: EDA 1C-6

Storm Event: 100 year

Scenario: Pre-Development 100 year

| | |
|--|-------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.122 hours |
| Area (User Defined) | 15,151 ft ² |
| <hr/> | |
| Computational Time Increment | 0.016 hours |
| Time to Peak (Computed) | 12.115 hours |
| Flow (Peak, Computed) | 1.73 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 1.71 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 66.000 |
| Area (User Defined) | 15,151 ft ² |
| Maximum Retention (Pervious) | 5.2 in |
| Maximum Retention (Pervious, 20 percent) | 1.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 5.0 in |
| Runoff Volume (Pervious) | 6,262 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 6,254 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.122 hours |
| Computational Time Increment | 0.016 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-6

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|-------------------------|
| Unit peak, q_p | 3.23 ft ³ /s |
| Unit peak time, T_p | 0.081 hours |
| Unit receding limb, T_r | 0.326 hours |
| Total unit time, T_b | 0.407 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|--|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.231 hours |
| Area (User Defined) | 69,477 ft ² |
| <hr/> | |
| Computational Time Increment | 0.031 hours |
| Time to Peak (Computed) | 12.189 hours |
| Flow (Peak, Computed) | 1.16 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 1.16 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 76.000 |
| Area (User Defined) | 69,477 ft ² |
| Maximum Retention (Pervious) | 3.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.6 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.9 in |
| Runoff Volume (Pervious) | 5,111 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 5,095 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.231 hours |
| Computational Time Increment | 0.031 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 7.83 ft ³ /s |
| Unit peak time, Tp | 0.154 hours |
| Unit receding limb, Tr | 0.616 hours |
| Total unit time, Tb | 0.769 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|--|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.231 hours |
| Area (User Defined) | 69,477 ft ² |
| <hr/> | |
| Computational Time Increment | 0.031 hours |
| Time to Peak (Computed) | 12.189 hours |
| Flow (Peak, Computed) | 3.66 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 3.61 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 76.000 |
| Area (User Defined) | 69,477 ft ² |
| Maximum Retention (Pervious) | 3.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.6 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.6 in |
| Runoff Volume (Pervious) | 15,254 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 15,216 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.231 hours |
| Computational Time Increment | 0.031 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

| | |
|------------------------|-------------------------|
| Unit peak, qp | 7.83 ft ³ /s |
| Unit peak time, Tp | 0.154 hours |
| Unit receding limb, Tr | 0.616 hours |
| Total unit time, Tb | 0.769 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|--------------------------------------|------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.231 hours |
| Area (User Defined) | 69,477 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.031 hours |
| Time to Peak (Computed) | 12.158 hours |
| Flow (Peak, Computed) | 5.23 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 5.18 ft ³ /s |

| | |
|---|------------------------|
| Drainage Area | |
| SCS CN (Composite) | 76.000 |
| Area (User Defined) | 69,477 ft ² |
| Maximum Retention (Pervious) | 3.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.6 in |

| | |
|---------------------------------------|------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 3.8 in |
| Runoff Volume (Pervious) | 21,785 ft ³ |

| | |
|---|------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 21,734 ft ³ |

| | |
|--------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.231 hours |
| Computational Time Increment | 0.031 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|-------------------------|
| Unit peak, q_p | 7.83 ft ³ /s |
| Unit peak time, T_p | 0.154 hours |
| Unit receding limb, T_r | 0.616 hours |
| Total unit time, T_b | 0.769 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: EDA 1C-7

Storm Event: 100 year

Scenario: Pre-Development 100 year

| | |
|---|-------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.231 hours |
| Area (User Defined) | 69,477 ft ² |
| <hr/> | |
| Computational Time Increment | 0.031 hours |
| Time to Peak (Computed) | 12.158 hours |
| Flow (Peak, Computed) | 8.56 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 8.48 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 76.000 |
| Area (User Defined) | 69,477 ft ² |
| Maximum Retention (Pervious) | 3.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.6 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.2 in |
| Runoff Volume (Pervious) | 35,927 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 35,850 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.231 hours |
| Computational Time Increment | 0.031 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA 1C-7

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|-------------------------|
| Unit peak, q_p | 7.83 ft ³ /s |
| Unit peak time, T_p | 0.154 hours |
| Unit receding limb, T_r | 0.616 hours |
| Total unit time, T_b | 0.769 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|--|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 146,796 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 3.17 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 3.15 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 79.000 |
| Area (User Defined) | 146,796 ft ² |
| Maximum Retention (Pervious) | 2.7 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.0 in |
| Runoff Volume (Pervious) | 12,776 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 12,744 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 20.06 ft ³ /s |
| Unit peak time, Tp | 0.127 hours |
| Unit receding limb, Tr | 0.508 hours |
| Total unit time, Tb | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|--------------------------------------|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 146,796 ft ² |

| | |
|--|-------------------------|
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 9.02 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 9.00 ft ³ /s |

| | |
|---|-------------------------|
| Drainage Area | |
| SCS CN (Composite) | 79.000 |
| Area (User Defined) | 146,796 ft ² |
| Maximum Retention (Pervious) | 2.7 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.9 in |
| Runoff Volume (Pervious) | 35,540 ft ³ |

| | |
|---|------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 35,467 ft ³ |

| | |
|--------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 20.06 ft ³ /s |
| Unit peak time, Tp | 0.127 hours |
| Unit receding limb, Tr | 0.508 hours |
| Total unit time, Tb | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|---|--------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 146,796 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 12.57 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 12.55 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 79.000 |
| Area (User Defined) | 146,796 ft ² |
| Maximum Retention (Pervious) | 2.7 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 4.1 in |
| Runoff Volume (Pervious) | 49,849 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 49,754 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 20.06 ft ³ /s |
| Unit peak time, Tp | 0.127 hours |
| Unit receding limb, Tr | 0.508 hours |
| Total unit time, Tb | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: EDA-2

Storm Event: 100 year

Scenario: Pre-Development 100 year

| | |
|--|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 146,796 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 19.92 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 19.92 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 79.000 |
| Area (User Defined) | 146,796 ft ² |
| Maximum Retention (Pervious) | 2.7 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.6 in |
| Runoff Volume (Pervious) | 80,460 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 80,319 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: EDA-2

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|--------------------------|
| Unit peak, q_p | 20.06 ft ³ /s |
| Unit peak time, T_p | 0.127 hours |
| Unit receding limb, T_r | 0.508 hours |
| Total unit time, T_b | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|--|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.277 hours |
| Area (User Defined) | 255,420 ft ² |
| Computational Time Increment | 0.037 hours |
| Time to Peak (Computed) | 12.201 hours |
| Flow (Peak, Computed) | 6.18 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 6.18 ft ³ /s |
| Drainage Area | |
| SCS CN (Composite) | 83.000 |
| Area (User Defined) | 255,420 ft ² |
| Maximum Retention (Pervious) | 2.0 in |
| Maximum Retention (Pervious, 20 percent) | 0.4 in |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.3 in |
| Runoff Volume (Pervious) | 27,401 ft ³ |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 27,313 ft ³ |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.277 hours |
| Computational Time Increment | 0.037 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 23.96 ft ³ /s |
| Unit peak time, Tp | 0.185 hours |
| Unit receding limb, Tr | 0.739 hours |
| Total unit time, Tb | 0.924 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|--|--------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.277 hours |
| Area (User Defined) | 255,420 ft ² |
| <hr/> | |
| Computational Time Increment | 0.037 hours |
| Time to Peak (Computed) | 12.201 hours |
| Flow (Peak, Computed) | 15.83 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 15.82 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 83.000 |
| Area (User Defined) | 255,420 ft ² |
| Maximum Retention (Pervious) | 2.0 in |
| Maximum Retention (Pervious, 20 percent) | 0.4 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 3.3 in |
| Runoff Volume (Pervious) | 69,876 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 69,692 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.277 hours |
| Computational Time Increment | 0.037 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 23.96 ft ³ /s |
| Unit peak time, Tp | 0.185 hours |
| Unit receding limb, Tr | 0.739 hours |
| Total unit time, Tb | 0.924 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|---|--------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.277 hours |
| Area (User Defined) | 255,420 ft ² |
| <hr/> | |
| Computational Time Increment | 0.037 hours |
| Time to Peak (Computed) | 12.201 hours |
| Flow (Peak, Computed) | 21.50 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 21.49 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 83.000 |
| Area (User Defined) | 255,420 ft ² |
| Maximum Retention (Pervious) | 2.0 in |
| Maximum Retention (Pervious, 20 percent) | 0.4 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 4.5 in |
| Runoff Volume (Pervious) | 95,813 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 95,575 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.277 hours |
| Computational Time Increment | 0.037 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 23.96 ft ³ /s |
| Unit peak time, T_p | 0.185 hours |
| Unit receding limb, T_r | 0.739 hours |
| Total unit time, T_b | 0.924 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: PDA-1C-2A

Storm Event: 100 year

Scenario: Post-Development 100 year

| | |
|---|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.277 hours |
| Area (User Defined) | 255,420 ft ² |
| <hr/> | |
| Computational Time Increment | 0.037 hours |
| Time to Peak (Computed) | 12.201 hours |
| Flow (Peak, Computed) | 33.11 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.200 hours |
| Flow (Peak Interpolated Output) | 33.10 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 83.000 |
| Area (User Defined) | 255,420 ft ² |
| Maximum Retention (Pervious) | 2.0 in |
| Maximum Retention (Pervious, 20 percent) | 0.4 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 7.1 in |
| Runoff Volume (Pervious) | 150,514 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 150,166 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.277 hours |
| Computational Time Increment | 0.037 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2A

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 23.96 ft ³ /s |
| Unit peak time, T_p | 0.185 hours |
| Unit receding limb, T_r | 0.739 hours |
| Total unit time, T_b | 0.924 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|--|--------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.171 hours |
| Area (User Defined) | 585,937 ft ² |
| <hr/> | |
| Computational Time Increment | 0.023 hours |
| Time to Peak (Computed) | 12.138 hours |
| Flow (Peak, Computed) | 13.74 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 13.72 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 585,937 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 1.1 in |
| Runoff Volume (Pervious) | 53,813 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 53,690 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.171 hours |
| Computational Time Increment | 0.023 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 89.23 ft ³ /s |
| Unit peak time, Tp | 0.114 hours |
| Unit receding limb, Tr | 0.455 hours |
| Total unit time, Tb | 0.569 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|--|--------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.171 hours |
| Area (User Defined) | 585,937 ft ² |
| <hr/> | |
| Computational Time Increment | 0.023 hours |
| Time to Peak (Computed) | 12.138 hours |
| Flow (Peak, Computed) | 38.01 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 37.70 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 585,937 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 3.0 in |
| Runoff Volume (Pervious) | 146,377 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 146,107 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.171 hours |
| Computational Time Increment | 0.023 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 89.23 ft ³ /s |
| Unit peak time, T_p | 0.114 hours |
| Unit receding limb, T_r | 0.455 hours |
| Total unit time, T_b | 0.569 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|--------------------------------------|-------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.171 hours |
| Area (User Defined) | 585,937 ft ² |

| | |
|--|--------------------------|
| Computational Time Increment | 0.023 hours |
| Time to Peak (Computed) | 12.138 hours |
| Flow (Peak, Computed) | 52.61 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 52.09 ft ³ /s |

| | |
|---|-------------------------|
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 585,937 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |

| | |
|---------------------------------------|-------------------------|
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 4.2 in |
| Runoff Volume (Pervious) | 204,127 ft ³ |

| | |
|--|-------------------------|
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 203,773 ft ³ |

| | |
|---------------------------------------|-------------|
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.171 hours |
| Computational Time Increment | 0.023 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 89.23 ft ³ /s |
| Unit peak time, T_p | 0.114 hours |
| Unit receding limb, T_r | 0.455 hours |
| Total unit time, T_b | 0.569 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Return Event: 100 years

Label: PDA-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

| | |
|--|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.171 hours |
| Area (User Defined) | 585,937 ft ² |
| <hr/> | |
| Computational Time Increment | 0.023 hours |
| Time to Peak (Computed) | 12.138 hours |
| Flow (Peak, Computed) | 82.75 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 81.79 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 80.000 |
| Area (User Defined) | 585,937 ft ² |
| Maximum Retention (Pervious) | 2.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.5 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.7 in |
| Runoff Volume (Pervious) | 327,199 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 326,676 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.171 hours |
| Computational Time Increment | 0.023 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-1C-2B

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 89.23 ft ³ /s |
| Unit peak time, T_p | 0.114 hours |
| Unit receding limb, T_r | 0.455 hours |
| Total unit time, T_b | 0.569 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| | |
|--|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 127,793 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 1.96 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 1.94 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 74.000 |
| Area (User Defined) | 127,793 ft ² |
| Maximum Retention (Pervious) | 3.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.7 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 0.8 in |
| Runoff Volume (Pervious) | 8,349 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 8,325 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 17.47 ft ³ /s |
| Unit peak time, Tp | 0.127 hours |
| Unit receding limb, Tr | 0.508 hours |
| Total unit time, Tb | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| | |
|---|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 127,793 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 6.64 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 6.62 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 74.000 |
| Area (User Defined) | 127,793 ft ² |
| Maximum Retention (Pervious) | 3.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.7 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.5 in |
| Runoff Volume (Pervious) | 26,201 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 26,143 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, qp | 17.47 ft ³ /s |
| Unit peak time, Tp | 0.127 hours |
| Unit receding limb, Tr | 0.508 hours |
| Total unit time, Tb | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| | |
|--|-------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 127,793 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 9.62 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 9.60 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 74.000 |
| Area (User Defined) | 127,793 ft ² |
| Maximum Retention (Pervious) | 3.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.7 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 3.6 in |
| Runoff Volume (Pervious) | 37,893 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 37,815 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|--------------------------|
| Unit peak, q_p | 17.47 ft ³ /s |
| Unit peak time, T_p | 0.127 hours |
| Unit receding limb, T_r | 0.508 hours |
| Total unit time, T_b | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary
 Label: PDA-2
 Scenario: Post-Development 100 year

Return Event: 100 years
 Storm Event: 100 year

| | |
|--|--------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.190 hours |
| Area (User Defined) | 127,793 ft ² |
| <hr/> | |
| Computational Time Increment | 0.025 hours |
| Time to Peak (Computed) | 12.155 hours |
| Flow (Peak, Computed) | 15.95 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.150 hours |
| Flow (Peak Interpolated Output) | 15.93 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 74.000 |
| Area (User Defined) | 127,793 ft ² |
| Maximum Retention (Pervious) | 3.5 in |
| Maximum Retention (Pervious, 20 percent) | 0.7 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.0 in |
| Runoff Volume (Pervious) | 63,436 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 63,317 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.190 hours |
| Computational Time Increment | 0.025 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: PDA-2

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|--------------------------|
| Unit peak, q_p | 17.47 ft ³ /s |
| Unit peak time, T_p | 0.127 hours |
| Unit receding limb, T_r | 0.508 hours |
| Total unit time, T_b | 0.634 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

| | |
|--|-------------------------|
| Storm Event | 1 year |
| Return Event | 1 years |
| Duration | 24.000 hours |
| Depth | 2.8 in |
| Time of Concentration (Composite) | 0.083 hours |
| Area (User Defined) | 17,994 ft ² |
| <hr/> | |
| Computational Time Increment | 0.011 hours |
| Time to Peak (Computed) | 12.100 hours |
| Flow (Peak, Computed) | 0.96 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 0.96 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 98.000 |
| Area (User Defined) | 17,994 ft ² |
| Maximum Retention (Pervious) | 0.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 2.6 in |
| Runoff Volume (Pervious) | 3,852 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 3,850 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.083 hours |
| Computational Time Increment | 0.011 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: Permeable Asphalt

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 5.62 ft ³ /s |
| Unit peak time, Tp | 0.056 hours |
| Unit receding limb, Tr | 0.222 hours |
| Total unit time, Tb | 0.278 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary
 Label: Permeable Asphalt
 Scenario: Post-Development 10 year

Return Event: 10 years
 Storm Event: 10 year

| | |
|--|-------------------------|
| Storm Event | 10 year |
| Return Event | 10 years |
| Duration | 24.000 hours |
| Depth | 5.1 in |
| Time of Concentration (Composite) | 0.083 hours |
| Area (User Defined) | 17,994 ft ² |
| <hr/> | |
| Computational Time Increment | 0.011 hours |
| Time to Peak (Computed) | 12.100 hours |
| Flow (Peak, Computed) | 1.78 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 1.78 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 98.000 |
| Area (User Defined) | 17,994 ft ² |
| Maximum Retention (Pervious) | 0.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 4.9 in |
| Runoff Volume (Pervious) | 7,322 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 7,318 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.083 hours |
| Computational Time Increment | 0.011 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: Permeable Asphalt

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 5.62 ft ³ /s |
| Unit peak time, Tp | 0.056 hours |
| Unit receding limb, Tr | 0.222 hours |
| Total unit time, Tb | 0.278 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary
 Label: Permeable Asphalt
 Scenario: Post-Development 25 year

Return Event: 25 years
 Storm Event: 25 year

| | |
|--|-------------------------|
| Storm Event | 25 year |
| Return Event | 25 years |
| Duration | 24.000 hours |
| Depth | 6.4 in |
| Time of Concentration (Composite) | 0.083 hours |
| Area (User Defined) | 17,994 ft ² |
| <hr/> | |
| Computational Time Increment | 0.011 hours |
| Time to Peak (Computed) | 12.100 hours |
| Flow (Peak, Computed) | 2.24 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 2.24 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 98.000 |
| Area (User Defined) | 17,994 ft ² |
| Maximum Retention (Pervious) | 0.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 6.2 in |
| Runoff Volume (Pervious) | 9,299 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 9,294 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.083 hours |
| Computational Time Increment | 0.011 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: Permeable Asphalt

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| SCS Unit Hydrograph Parameters | |
|--------------------------------|-------------------------|
| Unit peak, qp | 5.62 ft ³ /s |
| Unit peak time, Tp | 0.056 hours |
| Unit receding limb, Tr | 0.222 hours |
| Total unit time, Tb | 0.278 hours |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary
 Label: Permeable Asphalt
 Scenario: Post-Development 100 year

Return Event: 100 years
 Storm Event: 100 year

| | |
|--|-------------------------|
| Storm Event | 100 year |
| Return Event | 100 years |
| Duration | 24.000 hours |
| Depth | 9.1 in |
| Time of Concentration (Composite) | 0.083 hours |
| Area (User Defined) | 17,994 ft ² |
| <hr/> | |
| Computational Time Increment | 0.011 hours |
| Time to Peak (Computed) | 12.100 hours |
| Flow (Peak, Computed) | 3.18 ft ³ /s |
| Output Increment | 0.050 hours |
| Time to Flow (Peak Interpolated Output) | 12.100 hours |
| Flow (Peak Interpolated Output) | 3.18 ft ³ /s |
| <hr/> | |
| Drainage Area | |
| SCS CN (Composite) | 98.000 |
| Area (User Defined) | 17,994 ft ² |
| Maximum Retention (Pervious) | 0.2 in |
| Maximum Retention (Pervious, 20 percent) | 0.0 in |
| <hr/> | |
| Cumulative Runoff | |
| Cumulative Runoff Depth (Pervious) | 8.9 in |
| Runoff Volume (Pervious) | 13,345 ft ³ |
| <hr/> | |
| Hydrograph Volume (Area under Hydrograph curve) | |
| Volume | 13,337 ft ³ |
| <hr/> | |
| SCS Unit Hydrograph Parameters | |
| Time of Concentration (Composite) | 0.083 hours |
| Computational Time Increment | 0.011 hours |
| Unit Hydrograph Shape Factor | 483.432 |
| K Factor | 0.749 |
| Receding/Rising, Tr/Tp | 1.670 |

Stormwater Hydrologic Calculations

Subsection: Unit Hydrograph Summary

Label: Permeable Asphalt

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

| | |
|---------------------------|-------------------------|
| Unit peak, q_p | 5.62 ft ³ /s |
| Unit peak time, T_p | 0.056 hours |
| Unit receding limb, T_r | 0.222 hours |
| Total unit time, T_b | 0.278 hours |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 0.050 | 0.200 |
| Peak Time (hours)... | 0.000 | 0.000 |
| Peak Flow (ft ³ /s)... | 0.00 | 0.00 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------|
| Volume (Routing, Inflow) | 0 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 0 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.150 | 12.300 |
| Peak Flow (ft ³ /s)... | 1.80 | 1.80 |

| Inflow/Outflow Volumes | |
|--------------------------------|-----------------------|
| Volume (Routing, Inflow) | 8,426 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 8,426 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|-----------------------------|-------------------------|
| Infiltration Method | No Infiltration |
| Translation Routing Summary | |
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.450 | 12.600 |
| Peak Flow (ft ³ /s)... | 6.97 | 6.97 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 31,354 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 31,354 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|-----------------------------|-------------------------|
| Infiltration Method | No Infiltration |
| Translation Routing Summary | |
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.150 | 12.300 |
| Peak Flow (ft ³ /s)... | 8.53 | 8.53 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 32,561 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 32,561 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.350 | 12.500 |
| Peak Flow (ft ³ /s)... | 12.48 | 12.48 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 54,184 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 54,184 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.150 | 12.300 |
| Peak Flow (ft ³ /s)... | 13.10 | 13.10 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 49,470 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 49,470 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.250 | 12.400 |
| Peak Flow (ft ³ /s)... | 17.47 | 17.47 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 96,564 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 96,564 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-10

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.138 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.150 | 12.300 |
| Peak Flow (ft ³ /s)... | 23.15 | 23.15 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 87,757 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 87,757 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.200 | 12.350 |
| Peak Flow (ft ³ /s)... | 6.18 | 6.18 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 27,313 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 27,313 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.250 | 12.400 |
| Peak Flow (ft ³ /s)... | 10.75 | 10.75 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 50,159 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 50,159 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|-----------------------------|-------------------------|
| Infiltration Method | No Infiltration |
| Translation Routing Summary | |
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.250 | 12.400 |
| Peak Flow (ft ³ /s)... | 20.31 | 20.31 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 101,036 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 101,036 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.200 | 12.350 |
| Peak Flow (ft ³ /s)... | 30.02 | 30.02 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 136,541 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 136,541 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.250 | 12.400 |
| Peak Flow (ft ³ /s)... | 32.13 | 32.13 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 149,745 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 149,745 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.200 | 12.350 |
| Peak Flow (ft ³ /s)... | 41.73 | 41.73 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 190,446 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 190,446 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.250 | 12.400 |
| Peak Flow (ft ³ /s)... | 65.02 | 65.02 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 266,854 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 266,854 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-2

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.165 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.150 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.150 |
| Peak Time (hours)... | 12.200 | 12.350 |
| Peak Flow (ft ³ /s)... | 65.98 | 65.98 |

| Inflow/Outflow Volumes | |
|--------------------------------|-------------------------|
| Volume (Routing, Inflow) | 305,340 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 305,340 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.096 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.150 | 12.250 |
| Peak Flow (ft ³ /s)... | 0.12 | 0.12 |

| Inflow/Outflow Volumes | |
|--------------------------------|---------------------|
| Volume (Routing, Inflow) | 570 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 570 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-6

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.096 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.100 | 12.200 |
| Peak Flow (ft ³ /s)... | 0.60 | 0.60 |

| Inflow/Outflow Volumes | |
|--------------------------------|-----------------------|
| Volume (Routing, Inflow) | 2,282 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 2,282 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-6

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.096 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.100 | 12.200 |
| Peak Flow (ft ³ /s)... | 0.94 | 0.94 |

| Inflow/Outflow Volumes | |
|--------------------------------|-----------------------|
| Volume (Routing, Inflow) | 3,494 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 3,494 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary
 Label: CO-1C-6
 Scenario: Pre-Development 100 year

Return Event: 100 years
 Storm Event: 100 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.096 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.100 | 12.200 |
| Peak Flow (ft ³ /s)... | 1.71 | 1.71 |

| Inflow/Outflow Volumes | |
|--------------------------------|-----------------------|
| Volume (Routing, Inflow) | 6,254 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 6,254 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.084 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.200 | 12.300 |
| Peak Flow (ft ³ /s)... | 1.16 | 1.16 |

| Inflow/Outflow Volumes | |
|--------------------------------|-----------------------|
| Volume (Routing, Inflow) | 5,095 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 5,095 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-7

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.084 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.150 | 12.250 |
| Peak Flow (ft ³ /s)... | 3.61 | 3.61 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 15,216 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 15,216 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-7

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

| Infiltration | |
|---------------------|-----------------|
| Infiltration Method | No Infiltration |

| Translation Routing Summary | |
|-----------------------------|-------------------------|
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.084 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.150 | 12.250 |
| Peak Flow (ft ³ /s)... | 5.18 | 5.18 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 21,734 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 21,734 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Channel Routing Summary

Label: CO-1C-7

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

| Infiltration | |
|-----------------------------|-------------------------|
| Infiltration Method | No Infiltration |
| Translation Routing Summary | |
| Flow (Base) | 0.00 ft ³ /s |
| Translate | 0.084 hours |

| | Inflow Hydrograph | Outflow Hydrograph |
|-----------------------------------|-------------------|--------------------|
| Time Start (hours)... | 0.000 | 0.100 |
| Time Step (hours)... | 0.050 | 0.050 |
| Time End (hours)... | 24.000 | 24.100 |
| Peak Time (hours)... | 12.150 | 12.250 |
| Peak Flow (ft ³ /s)... | 8.48 | 8.48 |

| Inflow/Outflow Volumes | |
|--------------------------------|------------------------|
| Volume (Routing, Inflow) | 35,850 ft ³ |
| Volume (Routing, Unrouted) | 0 ft ³ |
| Volume (Routing, Base Flow) | 0 ft ³ |
| Volume (Routing, Infiltration) | 0 ft ³ |
| Volume (Routing, Outflow) | 35,850 ft ³ |

Stormwater Hydrologic Calculations

Subsection: Addition Summary
 Label: DP 1C
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-10 | 0 | 0.000 | 0.00 |
| Flow (From) | CO-1C-2 | 27,313 | 12.350 | 6.18 |
| Flow (In) | DP 1C | 27,251 | 12.350 | 6.18 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-7 | J-1C-7 |
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |
| CO-1C-6 | J-1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-7 | 5,095 | 12.300 | 1.16 |
| Flow (From) | CO-1C-10 | 8,426 | 12.300 | 1.80 |
| Flow (From) | CO-1C-2 | 50,159 | 12.400 | 10.75 |
| Flow (From) | CO-1C-6 | 570 | 12.250 | 0.12 |
| Flow (In) | DP 1C | 64,087 | 12.350 | 13.53 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-10 | 31,354 | 12.600 | 6.97 |
| Flow (From) | CO-1C-2 | 101,036 | 12.400 | 20.31 |
| Flow (In) | DP 1C | 132,258 | 12.450 | 26.38 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-7 | J-1C-7 |
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |
| CO-1C-6 | J-1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-7 | 15,216 | 12.250 | 3.61 |
| Flow (From) | CO-1C-10 | 32,561 | 12.300 | 8.53 |
| Flow (From) | CO-1C-2 | 136,541 | 12.350 | 30.02 |
| Flow (From) | CO-1C-6 | 2,282 | 12.200 | 0.60 |
| Flow (In) | DP 1C | 186,221 | 12.350 | 41.12 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-10 | 54,184 | 12.500 | 12.48 |
| Flow (From) | CO-1C-2 | 149,745 | 12.400 | 32.13 |
| Flow (In) | DP 1C | 203,757 | 12.400 | 43.84 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-7 | J-1C-7 |
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |
| CO-1C-6 | J-1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-7 | 21,734 | 12.250 | 5.18 |
| Flow (From) | CO-1C-10 | 49,470 | 12.300 | 13.10 |
| Flow (From) | CO-1C-2 | 190,446 | 12.350 | 41.73 |
| Flow (From) | CO-1C-6 | 3,494 | 12.200 | 0.94 |
| Flow (In) | DP 1C | 264,642 | 12.350 | 58.24 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-10 | 96,564 | 12.400 | 17.47 |
| Flow (From) | CO-1C-2 | 266,854 | 12.400 | 65.02 |
| Flow (In) | DP 1C | 363,166 | 12.400 | 82.49 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP 1C

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'DP 1C'

| Upstream Link | Upstream Node |
|---------------|---------------|
| CO-1C-7 | J-1C-7 |
| CO-1C-10 | J-1C-10 |
| CO-1C-2 | J-1C-2 |
| CO-1C-6 | J-1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | CO-1C-7 | 35,850 | 12.250 | 8.48 |
| Flow (From) | CO-1C-10 | 87,757 | 12.300 | 23.15 |
| Flow (From) | CO-1C-2 | 305,340 | 12.350 | 65.98 |
| Flow (From) | CO-1C-6 | 6,254 | 12.200 | 1.71 |
| Flow (In) | DP 1C | 434,447 | 12.300 | 95.31 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | PDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | PDA-2 | 8,325 | 12.150 | 1.94 |
| Flow (In) | DP-2 | 8,325 | 12.150 | 1.94 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA-2 | 12,744 | 12.150 | 3.15 |
| Flow (In) | DP-2 | 12,744 | 12.150 | 3.15 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | PDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | PDA-2 | 26,143 | 12.150 | 6.62 |
| Flow (In) | DP-2 | 26,143 | 12.150 | 6.62 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA-2 | 35,467 | 12.150 | 9.00 |
| Flow (In) | DP-2 | 35,467 | 12.150 | 9.00 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | PDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | PDA-2 | 37,815 | 12.150 | 9.60 |
| Flow (In) | DP-2 | 37,815 | 12.150 | 9.60 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA-2 | 49,754 | 12.150 | 12.55 |
| Flow (In) | DP-2 | 49,754 | 12.150 | 12.55 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | PDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | PDA-2 | 63,317 | 12.150 | 15.93 |
| Flow (In) | DP-2 | 63,317 | 12.150 | 15.93 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: DP-2

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'DP-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|---------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA-2 | 80,319 | 12.150 | 19.92 |
| Flow (In) | DP-2 | 80,319 | 12.150 | 19.92 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|---------------|---------------|
| DB-OCS-R | DB-1C-2B |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | DB-OCS-R | 0 | 0.000 | 0.00 |
| Flow (In) | J-1C-10 | 0 | 0.000 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-10 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | EDA 1C-10 | 8,426 | 12.150 | 1.80 |
| Flow (In) | J-1C-10 | 8,426 | 12.150 | 1.80 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|---------------|---------------|
| DB-OCS-R | DB-1C-2B |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | DB-OCS-R | 31,354 | 12.450 | 6.97 |
| Flow (In) | J-1C-10 | 31,354 | 12.450 | 6.97 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-10 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-10 | 32,561 | 12.150 | 8.53 |
| Flow (In) | J-1C-10 | 32,561 | 12.150 | 8.53 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|---------------|---------------|
| DB-OCS-R | DB-1C-2B |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | DB-OCS-R | 54,184 | 12.350 | 12.48 |
| Flow (In) | J-1C-10 | 54,184 | 12.350 | 12.48 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-10 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-10 | 49,470 | 12.150 | 13.10 |
| Flow (In) | J-1C-10 | 49,470 | 12.150 | 13.10 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|---------------|---------------|
| DB-OCS-R | DB-1C-2B |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | DB-OCS-R | 96,564 | 12.250 | 17.47 |
| Flow (In) | J-1C-10 | 96,564 | 12.250 | 17.47 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-10

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-10'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-10 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-10 | 87,757 | 12.150 | 23.15 |
| Flow (In) | J-1C-10 | 87,757 | 12.150 | 23.15 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| DB-OCS-L | DB-1C-2B |
| <Catchment to Outflow Node> | PDA-1C-2A |
| Outlet-4 | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | DB-OCS-L | 0 | 0.000 | 0.00 |
| Flow (From) | PDA-1C-2A | 27,313 | 12.200 | 6.18 |
| Flow (From) | Outlet-4 | 0 | 0.000 | 0.00 |
| Flow (In) | J-1C-2 | 27,313 | 12.200 | 6.18 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | EDA 1C-2 | 50,159 | 12.250 | 10.75 |
| Flow (In) | J-1C-2 | 50,159 | 12.250 | 10.75 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| DB-OCS-L | DB-1C-2B |
| <Catchment to Outflow Node> | PDA-1C-2A |
| Outlet-4 | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | DB-OCS-L | 31,345 | 12.450 | 6.97 |
| Flow (From) | PDA-1C-2A | 69,692 | 12.200 | 15.82 |
| Flow (From) | Outlet-4 | 0 | 0.000 | 0.00 |
| Flow (In) | J-1C-2 | 101,036 | 12.250 | 20.31 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-2 | 136,541 | 12.200 | 30.02 |
| Flow (In) | J-1C-2 | 136,541 | 12.200 | 30.02 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| DB-OCS-L | DB-1C-2B |
| <Catchment to Outflow Node> | PDA-1C-2A |
| Outlet-4 | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | DB-OCS-L | 54,170 | 12.350 | 12.48 |
| Flow (From) | PDA-1C-2A | 95,575 | 12.200 | 21.49 |
| Flow (From) | Outlet-4 | 0 | 0.000 | 0.00 |
| Flow (In) | J-1C-2 | 149,745 | 12.250 | 32.13 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-2 | 190,446 | 12.200 | 41.73 |
| Flow (In) | J-1C-2 | 190,446 | 12.200 | 41.73 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| DB-OCS-L | DB-1C-2B |
| <Catchment to Outflow Node> | PDA-1C-2A |
| Outlet-4 | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|-----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | DB-OCS-L | 116,688 | 12.250 | 33.73 |
| Flow (From) | PDA-1C-2A | 150,166 | 12.200 | 33.10 |
| Flow (From) | Outlet-4 | 0 | 0.000 | 0.00 |
| Flow (In) | J-1C-2 | 266,854 | 12.250 | 65.02 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-2

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-2'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-2 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-2 | 305,340 | 12.200 | 65.98 |
| Flow (In) | J-1C-2 | 305,340 | 12.200 | 65.98 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-6

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-6'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-6 | 570 | 12.150 | 0.12 |
| Flow (In) | J-1C-6 | 570 | 12.150 | 0.12 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-6

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-6'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-6 | 2,282 | 12.100 | 0.60 |
| Flow (In) | J-1C-6 | 2,282 | 12.100 | 0.60 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-6

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-6'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-6 | 3,494 | 12.100 | 0.94 |
| Flow (In) | J-1C-6 | 3,494 | 12.100 | 0.94 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-6

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-6'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-6 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-6 | 6,254 | 12.100 | 1.71 |
| Flow (In) | J-1C-6 | 6,254 | 12.100 | 1.71 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-7

Scenario: Pre-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Summary for Hydrograph Addition at 'J-1C-7'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-7 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-7 | 5,095 | 12.200 | 1.16 |
| Flow (In) | J-1C-7 | 5,095 | 12.200 | 1.16 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-7

Scenario: Pre-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'J-1C-7'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-7 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | EDA 1C-7 | 15,216 | 12.150 | 3.61 |
| Flow (In) | J-1C-7 | 15,216 | 12.150 | 3.61 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-7

Scenario: Pre-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'J-1C-7'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-7 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-7 | 21,734 | 12.150 | 5.18 |
| Flow (In) | J-1C-7 | 21,734 | 12.150 | 5.18 |

Stormwater Hydrologic Calculations

Subsection: Addition Summary

Label: J-1C-7

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Summary for Hydrograph Addition at 'J-1C-7'

| Upstream Link | Upstream Node |
|-----------------------------|---------------|
| <Catchment to Outflow Node> | EDA 1C-7 |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------|---------------------------|----------------------|----------------------------------|
| Flow (From) | EDA 1C-7 | 35,850 | 12.150 | 8.48 |
| Flow (In) | J-1C-7 | 35,850 | 12.150 | 8.48 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 1 years

Label: DB-1C-2B (IN)

Storm Event: 1 year

Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: DB-1C-2B (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 10.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 12.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 12.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 12.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 12.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 13.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 13.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 13.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 13.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 14.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 14.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 14.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 14.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 15.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 15.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 15.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 15.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 16.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 16.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 16.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 16.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 17.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 17.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 17.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 17.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 18.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 18.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 18.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 18.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 19.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 19.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 19.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 19.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 20.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: DB-1C-2B (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 20.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 20.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 20.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 24.000 | 620.00 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: DB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: DB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 12.000 | 620.00 | 620.00 | 620.08 | 620.27 | 620.50 |
| 12.250 | 620.70 | 620.79 | 620.82 | 620.83 | 620.84 |
| 12.500 | 620.84 | 620.82 | 620.79 | 620.76 | 620.73 |
| 12.750 | 620.70 | 620.66 | 620.64 | 620.61 | 620.58 |
| 13.000 | 620.56 | 620.54 | 620.51 | 620.49 | 620.47 |
| 13.250 | 620.46 | 620.44 | 620.42 | 620.41 | 620.39 |
| 13.500 | 620.38 | 620.37 | 620.36 | 620.35 | 620.34 |
| 13.750 | 620.33 | 620.32 | 620.31 | 620.30 | 620.29 |
| 14.000 | 620.29 | 620.28 | 620.27 | 620.26 | 620.26 |
| 14.250 | 620.25 | 620.24 | 620.24 | 620.23 | 620.23 |
| 14.500 | 620.22 | 620.22 | 620.21 | 620.21 | 620.20 |
| 14.750 | 620.20 | 620.19 | 620.19 | 620.18 | 620.18 |
| 15.000 | 620.18 | 620.17 | 620.17 | 620.16 | 620.16 |
| 15.250 | 620.16 | 620.15 | 620.15 | 620.15 | 620.14 |
| 15.500 | 620.14 | 620.13 | 620.13 | 620.13 | 620.12 |
| 15.750 | 620.12 | 620.12 | 620.11 | 620.11 | 620.11 |
| 16.000 | 620.10 | 620.10 | 620.10 | 620.09 | 620.09 |
| 16.250 | 620.09 | 620.08 | 620.08 | 620.08 | 620.08 |
| 16.500 | 620.07 | 620.07 | 620.07 | 620.07 | 620.07 |
| 16.750 | 620.07 | 620.06 | 620.06 | 620.06 | 620.06 |
| 17.000 | 620.06 | 620.06 | 620.06 | 620.05 | 620.05 |
| 17.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 17.500 | 620.05 | 620.04 | 620.04 | 620.04 | 620.04 |
| 17.750 | 620.04 | 620.04 | 620.04 | 620.03 | 620.03 |
| 18.000 | 620.03 | 620.03 | 620.03 | 620.03 | 620.03 |
| 18.250 | 620.02 | 620.02 | 620.02 | 620.02 | 620.02 |
| 18.500 | 620.02 | 620.02 | 620.02 | 620.02 | 620.02 |
| 18.750 | 620.02 | 620.01 | 620.01 | 620.01 | 620.01 |
| 19.000 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 19.250 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 19.500 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 19.750 | 620.01 | 620.01 | 620.01 | 620.01 | 620.00 |
| 20.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: DB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 20.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 20.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 20.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 24.000 | 620.00 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: DB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: DB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.03 |
| 12.000 | 620.15 | 620.36 | 620.62 | 620.89 | 621.09 |
| 12.250 | 621.19 | 621.23 | 621.24 | 621.24 | 621.22 |
| 12.500 | 621.19 | 621.14 | 621.09 | 621.04 | 620.98 |
| 12.750 | 620.93 | 620.88 | 620.84 | 620.80 | 620.76 |
| 13.000 | 620.73 | 620.69 | 620.66 | 620.63 | 620.61 |
| 13.250 | 620.58 | 620.56 | 620.54 | 620.52 | 620.50 |
| 13.500 | 620.49 | 620.47 | 620.46 | 620.44 | 620.43 |
| 13.750 | 620.42 | 620.41 | 620.40 | 620.39 | 620.38 |
| 14.000 | 620.37 | 620.36 | 620.35 | 620.34 | 620.33 |
| 14.250 | 620.32 | 620.32 | 620.31 | 620.31 | 620.30 |
| 14.500 | 620.29 | 620.29 | 620.28 | 620.28 | 620.27 |
| 14.750 | 620.27 | 620.26 | 620.26 | 620.25 | 620.25 |
| 15.000 | 620.24 | 620.24 | 620.23 | 620.23 | 620.22 |
| 15.250 | 620.22 | 620.22 | 620.21 | 620.21 | 620.21 |
| 15.500 | 620.20 | 620.20 | 620.19 | 620.19 | 620.19 |
| 15.750 | 620.18 | 620.18 | 620.17 | 620.17 | 620.17 |
| 16.000 | 620.16 | 620.16 | 620.16 | 620.15 | 620.15 |
| 16.250 | 620.14 | 620.14 | 620.14 | 620.13 | 620.13 |
| 16.500 | 620.13 | 620.12 | 620.12 | 620.12 | 620.11 |
| 16.750 | 620.11 | 620.11 | 620.10 | 620.10 | 620.10 |
| 17.000 | 620.10 | 620.09 | 620.09 | 620.09 | 620.08 |
| 17.250 | 620.08 | 620.08 | 620.08 | 620.07 | 620.07 |
| 17.500 | 620.07 | 620.07 | 620.07 | 620.06 | 620.06 |
| 17.750 | 620.06 | 620.06 | 620.06 | 620.06 | 620.06 |
| 18.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.04 |
| 18.500 | 620.04 | 620.04 | 620.04 | 620.04 | 620.04 |
| 18.750 | 620.03 | 620.03 | 620.03 | 620.03 | 620.03 |
| 19.000 | 620.03 | 620.03 | 620.03 | 620.02 | 620.02 |
| 19.250 | 620.02 | 620.02 | 620.02 | 620.02 | 620.02 |
| 19.500 | 620.02 | 620.02 | 620.02 | 620.01 | 620.01 |
| 19.750 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 20.000 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: DB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 20.500 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 20.750 | 620.01 | 620.01 | 620.00 | 620.00 | 620.00 |
| 21.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 21.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 24.000 | 620.00 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: DB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 0.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 1.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 2.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 3.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 4.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 5.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 6.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 7.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 8.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 9.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: DB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 10.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 11.500 | 620.02 | 620.06 | 620.11 | 620.18 | 620.26 |
| 11.750 | 620.35 | 620.45 | 620.56 | 620.69 | 620.82 |
| 12.000 | 620.99 | 621.21 | 621.47 | 621.70 | 621.85 |
| 12.250 | 621.92 | 621.92 | 621.88 | 621.83 | 621.77 |
| 12.500 | 621.70 | 621.63 | 621.55 | 621.46 | 621.37 |
| 12.750 | 621.28 | 621.21 | 621.14 | 621.08 | 621.03 |
| 13.000 | 620.98 | 620.93 | 620.89 | 620.85 | 620.81 |
| 13.250 | 620.78 | 620.75 | 620.72 | 620.69 | 620.67 |
| 13.500 | 620.65 | 620.63 | 620.61 | 620.60 | 620.58 |
| 13.750 | 620.57 | 620.55 | 620.54 | 620.53 | 620.51 |
| 14.000 | 620.50 | 620.49 | 620.48 | 620.47 | 620.46 |
| 14.250 | 620.45 | 620.44 | 620.43 | 620.43 | 620.42 |
| 14.500 | 620.41 | 620.41 | 620.40 | 620.39 | 620.39 |
| 14.750 | 620.38 | 620.37 | 620.37 | 620.36 | 620.36 |
| 15.000 | 620.35 | 620.35 | 620.34 | 620.34 | 620.33 |
| 15.250 | 620.33 | 620.32 | 620.32 | 620.31 | 620.31 |
| 15.500 | 620.31 | 620.30 | 620.30 | 620.29 | 620.29 |
| 15.750 | 620.28 | 620.28 | 620.27 | 620.27 | 620.26 |
| 16.000 | 620.26 | 620.25 | 620.25 | 620.25 | 620.24 |
| 16.250 | 620.24 | 620.23 | 620.23 | 620.22 | 620.22 |
| 16.500 | 620.22 | 620.21 | 620.21 | 620.21 | 620.20 |
| 16.750 | 620.20 | 620.20 | 620.19 | 620.19 | 620.19 |
| 17.000 | 620.18 | 620.18 | 620.18 | 620.17 | 620.17 |
| 17.250 | 620.17 | 620.16 | 620.16 | 620.16 | 620.16 |
| 17.500 | 620.15 | 620.15 | 620.15 | 620.15 | 620.14 |
| 17.750 | 620.14 | 620.14 | 620.13 | 620.13 | 620.13 |
| 18.000 | 620.12 | 620.12 | 620.12 | 620.12 | 620.11 |
| 18.250 | 620.11 | 620.11 | 620.11 | 620.10 | 620.10 |
| 18.500 | 620.10 | 620.10 | 620.09 | 620.09 | 620.09 |
| 18.750 | 620.09 | 620.08 | 620.08 | 620.08 | 620.08 |
| 19.000 | 620.08 | 620.07 | 620.07 | 620.07 | 620.07 |
| 19.250 | 620.07 | 620.07 | 620.06 | 620.06 | 620.06 |
| 19.500 | 620.06 | 620.06 | 620.06 | 620.06 | 620.05 |
| 19.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.000 | 620.05 | 620.05 | 620.05 | 620.04 | 620.04 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: DB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 620.04 | 620.04 | 620.04 | 620.04 | 620.03 |
| 20.500 | 620.03 | 620.03 | 620.03 | 620.03 | 620.03 |
| 20.750 | 620.03 | 620.02 | 620.02 | 620.02 | 620.02 |
| 21.000 | 620.02 | 620.02 | 620.02 | 620.02 | 620.02 |
| 21.250 | 620.02 | 620.02 | 620.01 | 620.01 | 620.01 |
| 21.500 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 21.750 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 22.000 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 22.250 | 620.01 | 620.01 | 620.01 | 620.01 | 620.01 |
| 22.500 | 620.01 | 620.00 | 620.00 | 620.00 | 620.00 |
| 22.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.000 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.250 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.500 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 23.750 | 620.00 | 620.00 | 620.00 | 620.00 | 620.00 |
| 24.000 | 620.00 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 1 years

Label: IB-1C-2B (IN)

Storm Event: 1 year

Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: IB-1C-2B (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 10.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 10.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 10.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 10.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 11.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 11.250 | 618.00 | 618.01 | 618.01 | 618.01 | 618.01 |
| 11.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.02 |
| 11.750 | 618.02 | 618.04 | 618.06 | 618.10 | 618.16 |
| 12.000 | 618.25 | 618.39 | 618.57 | 618.78 | 618.99 |
| 12.250 | 619.17 | 619.32 | 619.45 | 619.56 | 619.65 |
| 12.500 | 619.72 | 619.78 | 619.82 | 619.86 | 619.88 |
| 12.750 | 619.90 | 619.91 | 619.93 | 619.94 | 619.95 |
| 13.000 | 619.96 | 619.96 | 619.97 | 619.97 | 619.97 |
| 13.250 | 619.97 | 619.97 | 619.97 | 619.97 | 619.97 |
| 13.500 | 619.97 | 619.97 | 619.97 | 619.97 | 619.98 |
| 13.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 14.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 14.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 14.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 14.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 15.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 15.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 15.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 15.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 16.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 16.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 16.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 16.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 17.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 17.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 17.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 17.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 18.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 18.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 18.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 18.750 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 19.000 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 19.250 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 19.500 | 619.98 | 619.98 | 619.98 | 619.98 | 619.98 |
| 19.750 | 619.98 | 619.99 | 619.99 | 619.99 | 619.99 |
| 20.000 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: IB-1C-2B (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 20.500 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 20.750 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 21.000 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 21.250 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 21.500 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 21.750 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 22.000 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 22.250 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 22.500 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 22.750 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 23.000 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 23.250 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 23.500 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 23.750 | 619.99 | 619.99 | 619.99 | 619.99 | 619.99 |
| 24.000 | 619.99 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: IB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 9.250 | 618.00 | 618.00 | 618.00 | 618.01 | 618.01 |
| 9.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 9.750 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: IB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 10.250 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 10.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 10.750 | 618.01 | 618.02 | 618.02 | 618.02 | 618.02 |
| 11.000 | 618.03 | 618.03 | 618.04 | 618.05 | 618.06 |
| 11.250 | 618.08 | 618.09 | 618.11 | 618.14 | 618.17 |
| 11.500 | 618.20 | 618.23 | 618.28 | 618.34 | 618.42 |
| 11.750 | 618.52 | 618.66 | 618.83 | 619.04 | 619.30 |
| 12.000 | 619.65 | 620.08 | 620.33 | 620.48 | 620.57 |
| 12.250 | 620.64 | 620.74 | 620.82 | 620.85 | 620.86 |
| 12.500 | 620.87 | 620.86 | 620.84 | 620.81 | 620.78 |
| 12.750 | 620.75 | 620.71 | 620.68 | 620.65 | 620.63 |
| 13.000 | 620.60 | 620.58 | 620.55 | 620.53 | 620.51 |
| 13.250 | 620.49 | 620.47 | 620.46 | 620.44 | 620.42 |
| 13.500 | 620.41 | 620.40 | 620.39 | 620.37 | 620.36 |
| 13.750 | 620.35 | 620.34 | 620.33 | 620.32 | 620.32 |
| 14.000 | 620.31 | 620.30 | 620.29 | 620.28 | 620.28 |
| 14.250 | 620.27 | 620.26 | 620.26 | 620.25 | 620.25 |
| 14.500 | 620.24 | 620.23 | 620.23 | 620.22 | 620.22 |
| 14.750 | 620.21 | 620.21 | 620.21 | 620.20 | 620.20 |
| 15.000 | 620.19 | 620.19 | 620.19 | 620.18 | 620.18 |
| 15.250 | 620.17 | 620.17 | 620.16 | 620.16 | 620.16 |
| 15.500 | 620.15 | 620.15 | 620.15 | 620.14 | 620.14 |
| 15.750 | 620.14 | 620.13 | 620.13 | 620.12 | 620.12 |
| 16.000 | 620.12 | 620.11 | 620.11 | 620.10 | 620.10 |
| 16.250 | 620.10 | 620.10 | 620.10 | 620.09 | 620.09 |
| 16.500 | 620.09 | 620.09 | 620.08 | 620.08 | 620.08 |
| 16.750 | 620.08 | 620.07 | 620.07 | 620.07 | 620.07 |
| 17.000 | 620.07 | 620.07 | 620.06 | 620.06 | 620.06 |
| 17.250 | 620.06 | 620.06 | 620.06 | 620.06 | 620.05 |
| 17.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 17.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: IB-1C-2B (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 24.000 | 620.05 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: IB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 8.500 | 618.00 | 618.01 | 618.01 | 618.01 | 618.01 |
| 8.750 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 9.000 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 9.250 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 9.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 9.750 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: IB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 618.01 | 618.01 | 618.02 | 618.02 | 618.02 |
| 10.250 | 618.02 | 618.03 | 618.03 | 618.04 | 618.05 |
| 10.500 | 618.06 | 618.07 | 618.08 | 618.09 | 618.11 |
| 10.750 | 618.13 | 618.14 | 618.16 | 618.18 | 618.21 |
| 11.000 | 618.23 | 618.26 | 618.29 | 618.32 | 618.35 |
| 11.250 | 618.39 | 618.44 | 618.48 | 618.54 | 618.59 |
| 11.500 | 618.66 | 618.73 | 618.81 | 618.91 | 619.05 |
| 11.750 | 619.22 | 619.43 | 619.69 | 620.00 | 620.21 |
| 12.000 | 620.37 | 620.52 | 620.67 | 620.82 | 620.98 |
| 12.250 | 621.14 | 621.23 | 621.27 | 621.28 | 621.27 |
| 12.500 | 621.25 | 621.21 | 621.17 | 621.11 | 621.06 |
| 12.750 | 621.00 | 620.95 | 620.90 | 620.86 | 620.82 |
| 13.000 | 620.78 | 620.75 | 620.71 | 620.68 | 620.65 |
| 13.250 | 620.62 | 620.60 | 620.58 | 620.56 | 620.54 |
| 13.500 | 620.52 | 620.51 | 620.49 | 620.47 | 620.46 |
| 13.750 | 620.45 | 620.44 | 620.42 | 620.41 | 620.40 |
| 14.000 | 620.39 | 620.38 | 620.37 | 620.37 | 620.36 |
| 14.250 | 620.35 | 620.34 | 620.33 | 620.33 | 620.32 |
| 14.500 | 620.31 | 620.31 | 620.30 | 620.30 | 620.29 |
| 14.750 | 620.29 | 620.28 | 620.28 | 620.27 | 620.27 |
| 15.000 | 620.26 | 620.26 | 620.25 | 620.25 | 620.25 |
| 15.250 | 620.24 | 620.24 | 620.23 | 620.23 | 620.22 |
| 15.500 | 620.22 | 620.21 | 620.21 | 620.21 | 620.20 |
| 15.750 | 620.20 | 620.20 | 620.19 | 620.19 | 620.18 |
| 16.000 | 620.18 | 620.17 | 620.17 | 620.17 | 620.16 |
| 16.250 | 620.16 | 620.15 | 620.15 | 620.15 | 620.14 |
| 16.500 | 620.14 | 620.14 | 620.13 | 620.13 | 620.13 |
| 16.750 | 620.12 | 620.12 | 620.12 | 620.11 | 620.11 |
| 17.000 | 620.11 | 620.10 | 620.10 | 620.10 | 620.10 |
| 17.250 | 620.10 | 620.09 | 620.09 | 620.09 | 620.09 |
| 17.500 | 620.08 | 620.08 | 620.08 | 620.08 | 620.07 |
| 17.750 | 620.07 | 620.07 | 620.07 | 620.07 | 620.07 |
| 18.000 | 620.06 | 620.06 | 620.06 | 620.06 | 620.06 |
| 18.250 | 620.06 | 620.06 | 620.05 | 620.05 | 620.05 |
| 18.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 18.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 19.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: IB-1C-2B (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 24.000 | 620.05 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: IB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 0.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 1.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 2.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 3.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 4.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 5.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.000 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.250 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.500 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 6.750 | 618.00 | 618.00 | 618.00 | 618.00 | 618.00 |
| 7.000 | 618.00 | 618.00 | 618.00 | 618.01 | 618.01 |
| 7.250 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 7.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 7.750 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 8.000 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 8.250 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 8.500 | 618.01 | 618.01 | 618.01 | 618.01 | 618.01 |
| 8.750 | 618.01 | 618.01 | 618.02 | 618.02 | 618.02 |
| 9.000 | 618.02 | 618.03 | 618.03 | 618.04 | 618.05 |
| 9.250 | 618.06 | 618.07 | 618.08 | 618.09 | 618.10 |
| 9.500 | 618.12 | 618.13 | 618.15 | 618.17 | 618.19 |
| 9.750 | 618.21 | 618.23 | 618.25 | 618.27 | 618.30 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: IB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 618.32 | 618.35 | 618.38 | 618.41 | 618.44 |
| 10.250 | 618.48 | 618.51 | 618.55 | 618.59 | 618.64 |
| 10.500 | 618.68 | 618.73 | 618.78 | 618.83 | 618.89 |
| 10.750 | 618.94 | 619.00 | 619.06 | 619.13 | 619.19 |
| 11.000 | 619.26 | 619.34 | 619.41 | 619.49 | 619.58 |
| 11.250 | 619.67 | 619.77 | 619.88 | 619.99 | 620.07 |
| 11.500 | 620.14 | 620.19 | 620.23 | 620.27 | 620.32 |
| 11.750 | 620.38 | 620.46 | 620.55 | 620.66 | 620.78 |
| 12.000 | 620.94 | 621.12 | 621.34 | 621.57 | 621.76 |
| 12.250 | 621.89 | 621.96 | 621.96 | 621.92 | 621.87 |
| 12.500 | 621.80 | 621.73 | 621.65 | 621.57 | 621.48 |
| 12.750 | 621.39 | 621.31 | 621.23 | 621.17 | 621.11 |
| 13.000 | 621.05 | 621.00 | 620.95 | 620.91 | 620.87 |
| 13.250 | 620.83 | 620.80 | 620.77 | 620.74 | 620.72 |
| 13.500 | 620.69 | 620.67 | 620.65 | 620.63 | 620.62 |
| 13.750 | 620.60 | 620.59 | 620.57 | 620.56 | 620.55 |
| 14.000 | 620.53 | 620.52 | 620.51 | 620.50 | 620.49 |
| 14.250 | 620.48 | 620.47 | 620.46 | 620.46 | 620.45 |
| 14.500 | 620.44 | 620.43 | 620.42 | 620.42 | 620.41 |
| 14.750 | 620.41 | 620.40 | 620.39 | 620.39 | 620.38 |
| 15.000 | 620.38 | 620.37 | 620.37 | 620.36 | 620.36 |
| 15.250 | 620.35 | 620.35 | 620.34 | 620.34 | 620.33 |
| 15.500 | 620.33 | 620.32 | 620.32 | 620.31 | 620.31 |
| 15.750 | 620.30 | 620.30 | 620.29 | 620.29 | 620.28 |
| 16.000 | 620.28 | 620.27 | 620.27 | 620.26 | 620.26 |
| 16.250 | 620.26 | 620.25 | 620.25 | 620.24 | 620.24 |
| 16.500 | 620.24 | 620.23 | 620.23 | 620.22 | 620.22 |
| 16.750 | 620.22 | 620.21 | 620.21 | 620.21 | 620.20 |
| 17.000 | 620.20 | 620.20 | 620.19 | 620.19 | 620.19 |
| 17.250 | 620.19 | 620.18 | 620.18 | 620.18 | 620.17 |
| 17.500 | 620.17 | 620.17 | 620.16 | 620.16 | 620.16 |
| 17.750 | 620.16 | 620.15 | 620.15 | 620.15 | 620.14 |
| 18.000 | 620.14 | 620.14 | 620.13 | 620.13 | 620.13 |
| 18.250 | 620.12 | 620.12 | 620.12 | 620.12 | 620.11 |
| 18.500 | 620.11 | 620.11 | 620.11 | 620.10 | 620.10 |
| 18.750 | 620.10 | 620.10 | 620.10 | 620.10 | 620.09 |
| 19.000 | 620.09 | 620.09 | 620.09 | 620.08 | 620.08 |
| 19.250 | 620.08 | 620.08 | 620.08 | 620.07 | 620.07 |
| 19.500 | 620.07 | 620.07 | 620.07 | 620.07 | 620.06 |
| 19.750 | 620.06 | 620.06 | 620.06 | 620.06 | 620.06 |
| 20.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: IB-1C-2B (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 20.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 21.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 22.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.000 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.250 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.500 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 23.750 | 620.05 | 620.05 | 620.05 | 620.05 | 620.05 |
| 24.000 | 620.05 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: Permeable Asphalt (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 3.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 3.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 3.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 3.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 4.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 4.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 4.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 4.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 5.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 5.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 5.500 | 634.32 | 634.32 | 634.33 | 634.33 | 634.33 |
| 5.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 7.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 7.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 7.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 7.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 8.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 8.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 8.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 8.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.34 |
| 9.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 9.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 9.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 9.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: Permeable Asphalt (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 10.250 | 634.34 | 634.34 | 634.35 | 634.35 | 634.35 |
| 10.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 10.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 11.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.36 |
| 11.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 11.500 | 634.36 | 634.36 | 634.37 | 634.37 | 634.37 |
| 11.750 | 634.38 | 634.38 | 634.39 | 634.40 | 634.41 |
| 12.000 | 634.43 | 634.44 | 634.46 | 634.48 | 634.49 |
| 12.250 | 634.49 | 634.50 | 634.50 | 634.50 | 634.50 |
| 12.500 | 634.50 | 634.50 | 634.49 | 634.49 | 634.49 |
| 12.750 | 634.48 | 634.48 | 634.47 | 634.47 | 634.47 |
| 13.000 | 634.46 | 634.46 | 634.46 | 634.45 | 634.45 |
| 13.250 | 634.45 | 634.44 | 634.44 | 634.44 | 634.43 |
| 13.500 | 634.43 | 634.43 | 634.43 | 634.42 | 634.42 |
| 13.750 | 634.42 | 634.42 | 634.41 | 634.41 | 634.41 |
| 14.000 | 634.41 | 634.41 | 634.40 | 634.40 | 634.40 |
| 14.250 | 634.40 | 634.40 | 634.39 | 634.39 | 634.39 |
| 14.500 | 634.39 | 634.39 | 634.39 | 634.38 | 634.38 |
| 14.750 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 15.000 | 634.38 | 634.37 | 634.37 | 634.37 | 634.37 |
| 15.250 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 15.500 | 634.37 | 634.36 | 634.36 | 634.36 | 634.36 |
| 15.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 16.000 | 634.36 | 634.36 | 634.36 | 634.35 | 634.35 |
| 16.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 16.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 16.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 17.000 | 634.35 | 634.35 | 634.34 | 634.34 | 634.34 |
| 17.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 17.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 17.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 18.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 18.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 18.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 18.750 | 634.34 | 634.33 | 634.33 | 634.33 | 634.33 |
| 19.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 19.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 19.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 19.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 20.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation
 Label: Permeable Asphalt (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 20.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 20.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 21.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 21.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 21.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 21.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 22.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 22.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 22.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 22.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 24.000 | 634.33 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Permeable Asphalt (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 3.000 | 634.32 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 5.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 5.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 5.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 5.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 6.250 | 634.33 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 7.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 7.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 7.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 7.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 8.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 8.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 8.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 8.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 9.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 9.250 | 634.35 | 634.36 | 634.36 | 634.36 | 634.36 |
| 9.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 9.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Permeable Asphalt (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 634.36 | 634.36 | 634.37 | 634.37 | 634.37 |
| 10.250 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 10.500 | 634.37 | 634.37 | 634.37 | 634.38 | 634.38 |
| 10.750 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 11.000 | 634.38 | 634.38 | 634.39 | 634.39 | 634.39 |
| 11.250 | 634.39 | 634.39 | 634.39 | 634.40 | 634.40 |
| 11.500 | 634.40 | 634.40 | 634.41 | 634.41 | 634.42 |
| 11.750 | 634.43 | 634.44 | 634.45 | 634.47 | 634.49 |
| 12.000 | 634.52 | 634.55 | 634.59 | 634.61 | 634.63 |
| 12.250 | 634.64 | 634.65 | 634.65 | 634.66 | 634.66 |
| 12.500 | 634.65 | 634.65 | 634.64 | 634.63 | 634.63 |
| 12.750 | 634.62 | 634.61 | 634.61 | 634.60 | 634.59 |
| 13.000 | 634.59 | 634.58 | 634.57 | 634.57 | 634.56 |
| 13.250 | 634.55 | 634.55 | 634.54 | 634.54 | 634.53 |
| 13.500 | 634.53 | 634.52 | 634.52 | 634.51 | 634.51 |
| 13.750 | 634.50 | 634.50 | 634.49 | 634.49 | 634.49 |
| 14.000 | 634.48 | 634.48 | 634.47 | 634.47 | 634.47 |
| 14.250 | 634.46 | 634.46 | 634.46 | 634.45 | 634.45 |
| 14.500 | 634.45 | 634.44 | 634.44 | 634.44 | 634.44 |
| 14.750 | 634.43 | 634.43 | 634.43 | 634.43 | 634.42 |
| 15.000 | 634.42 | 634.42 | 634.42 | 634.42 | 634.41 |
| 15.250 | 634.41 | 634.41 | 634.41 | 634.41 | 634.41 |
| 15.500 | 634.40 | 634.40 | 634.40 | 634.40 | 634.40 |
| 15.750 | 634.40 | 634.39 | 634.39 | 634.39 | 634.39 |
| 16.000 | 634.39 | 634.39 | 634.39 | 634.38 | 634.38 |
| 16.250 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 16.500 | 634.38 | 634.38 | 634.37 | 634.37 | 634.37 |
| 16.750 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 17.000 | 634.37 | 634.37 | 634.37 | 634.36 | 634.36 |
| 17.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 17.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 17.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.35 |
| 18.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 18.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 18.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 18.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 19.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 19.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 20.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Permeable Asphalt (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 20.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 20.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.750 | 634.34 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 23.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 24.000 | 634.33 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Permeable Asphalt (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 2.250 | 634.32 | 634.32 | 634.32 | 634.33 | 634.33 |
| 2.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 2.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 4.750 | 634.33 | 634.33 | 634.33 | 634.34 | 634.34 |
| 5.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 5.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 5.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 5.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 6.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 7.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.35 |
| 7.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 7.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 7.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 8.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 8.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 8.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 8.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 9.000 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 9.250 | 634.36 | 634.37 | 634.37 | 634.37 | 634.37 |
| 9.500 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 9.750 | 634.37 | 634.37 | 634.37 | 634.38 | 634.38 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Permeable Asphalt (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 10.250 | 634.38 | 634.38 | 634.38 | 634.38 | 634.39 |
| 10.500 | 634.39 | 634.39 | 634.39 | 634.39 | 634.39 |
| 10.750 | 634.39 | 634.39 | 634.40 | 634.40 | 634.40 |
| 11.000 | 634.40 | 634.40 | 634.40 | 634.40 | 634.41 |
| 11.250 | 634.41 | 634.41 | 634.41 | 634.42 | 634.42 |
| 11.500 | 634.42 | 634.43 | 634.43 | 634.44 | 634.45 |
| 11.750 | 634.46 | 634.47 | 634.49 | 634.51 | 634.53 |
| 12.000 | 634.57 | 634.61 | 634.65 | 634.69 | 634.71 |
| 12.250 | 634.73 | 634.74 | 634.74 | 634.74 | 634.74 |
| 12.500 | 634.74 | 634.73 | 634.72 | 634.72 | 634.71 |
| 12.750 | 634.70 | 634.69 | 634.68 | 634.67 | 634.66 |
| 13.000 | 634.66 | 634.65 | 634.64 | 634.63 | 634.62 |
| 13.250 | 634.62 | 634.61 | 634.60 | 634.59 | 634.59 |
| 13.500 | 634.58 | 634.57 | 634.57 | 634.56 | 634.56 |
| 13.750 | 634.55 | 634.54 | 634.54 | 634.53 | 634.53 |
| 14.000 | 634.52 | 634.52 | 634.51 | 634.51 | 634.51 |
| 14.250 | 634.50 | 634.50 | 634.49 | 634.49 | 634.48 |
| 14.500 | 634.48 | 634.48 | 634.47 | 634.47 | 634.47 |
| 14.750 | 634.46 | 634.46 | 634.46 | 634.45 | 634.45 |
| 15.000 | 634.45 | 634.45 | 634.44 | 634.44 | 634.44 |
| 15.250 | 634.44 | 634.43 | 634.43 | 634.43 | 634.43 |
| 15.500 | 634.43 | 634.42 | 634.42 | 634.42 | 634.42 |
| 15.750 | 634.42 | 634.41 | 634.41 | 634.41 | 634.41 |
| 16.000 | 634.41 | 634.40 | 634.40 | 634.40 | 634.40 |
| 16.250 | 634.40 | 634.40 | 634.39 | 634.39 | 634.39 |
| 16.500 | 634.39 | 634.39 | 634.39 | 634.39 | 634.39 |
| 16.750 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 17.000 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 17.250 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 17.500 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 17.750 | 634.37 | 634.37 | 634.37 | 634.36 | 634.36 |
| 18.000 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 18.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 18.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 18.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 19.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 20.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Permeable Asphalt (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 20.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 20.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 21.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 22.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 23.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 23.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 23.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 23.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 24.000 | 634.34 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Permeable Asphalt (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 0.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.500 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 0.750 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.000 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.250 | 634.32 | 634.32 | 634.32 | 634.32 | 634.32 |
| 1.500 | 634.32 | 634.32 | 634.33 | 634.33 | 634.33 |
| 1.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 2.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 2.250 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 2.500 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 2.750 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.000 | 634.33 | 634.33 | 634.33 | 634.33 | 634.33 |
| 3.250 | 634.33 | 634.34 | 634.34 | 634.34 | 634.34 |
| 3.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 3.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 4.000 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 4.250 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 4.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 4.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 5.000 | 634.34 | 634.34 | 634.34 | 634.35 | 634.35 |
| 5.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 5.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 5.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 6.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 6.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 6.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 6.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.36 |
| 7.000 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 7.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 7.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 7.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 8.000 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 8.250 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 8.500 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 8.750 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 9.000 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 9.250 | 634.39 | 634.39 | 634.39 | 634.39 | 634.39 |
| 9.500 | 634.39 | 634.39 | 634.39 | 634.39 | 634.39 |
| 9.750 | 634.40 | 634.40 | 634.40 | 634.40 | 634.40 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Permeable Asphalt (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 10.000 | 634.40 | 634.40 | 634.40 | 634.41 | 634.41 |
| 10.250 | 634.41 | 634.41 | 634.41 | 634.41 | 634.41 |
| 10.500 | 634.42 | 634.42 | 634.42 | 634.42 | 634.42 |
| 10.750 | 634.42 | 634.43 | 634.43 | 634.43 | 634.43 |
| 11.000 | 634.43 | 634.44 | 634.44 | 634.44 | 634.44 |
| 11.250 | 634.45 | 634.45 | 634.45 | 634.46 | 634.46 |
| 11.500 | 634.47 | 634.47 | 634.48 | 634.49 | 634.50 |
| 11.750 | 634.52 | 634.54 | 634.56 | 634.59 | 634.63 |
| 12.000 | 634.68 | 634.74 | 634.80 | 634.85 | 634.88 |
| 12.250 | 634.91 | 634.92 | 634.93 | 634.94 | 634.94 |
| 12.500 | 634.94 | 634.94 | 634.93 | 634.92 | 634.91 |
| 12.750 | 634.90 | 634.89 | 634.88 | 634.86 | 634.85 |
| 13.000 | 634.84 | 634.83 | 634.81 | 634.80 | 634.79 |
| 13.250 | 634.77 | 634.76 | 634.75 | 634.74 | 634.73 |
| 13.500 | 634.72 | 634.71 | 634.70 | 634.69 | 634.68 |
| 13.750 | 634.67 | 634.66 | 634.65 | 634.64 | 634.64 |
| 14.000 | 634.63 | 634.62 | 634.61 | 634.61 | 634.60 |
| 14.250 | 634.59 | 634.59 | 634.58 | 634.57 | 634.57 |
| 14.500 | 634.56 | 634.56 | 634.55 | 634.54 | 634.54 |
| 14.750 | 634.53 | 634.53 | 634.53 | 634.52 | 634.52 |
| 15.000 | 634.51 | 634.51 | 634.50 | 634.50 | 634.50 |
| 15.250 | 634.49 | 634.49 | 634.48 | 634.48 | 634.48 |
| 15.500 | 634.47 | 634.47 | 634.47 | 634.47 | 634.46 |
| 15.750 | 634.46 | 634.46 | 634.45 | 634.45 | 634.45 |
| 16.000 | 634.45 | 634.44 | 634.44 | 634.44 | 634.44 |
| 16.250 | 634.43 | 634.43 | 634.43 | 634.43 | 634.42 |
| 16.500 | 634.42 | 634.42 | 634.42 | 634.42 | 634.42 |
| 16.750 | 634.41 | 634.41 | 634.41 | 634.41 | 634.41 |
| 17.000 | 634.41 | 634.40 | 634.40 | 634.40 | 634.40 |
| 17.250 | 634.40 | 634.40 | 634.40 | 634.40 | 634.39 |
| 17.500 | 634.39 | 634.39 | 634.39 | 634.39 | 634.39 |
| 17.750 | 634.39 | 634.39 | 634.38 | 634.38 | 634.38 |
| 18.000 | 634.38 | 634.38 | 634.38 | 634.38 | 634.38 |
| 18.250 | 634.38 | 634.38 | 634.38 | 634.37 | 634.37 |
| 18.500 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 18.750 | 634.37 | 634.37 | 634.37 | 634.37 | 634.37 |
| 19.000 | 634.37 | 634.37 | 634.37 | 634.37 | 634.36 |
| 19.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 19.500 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 19.750 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 20.000 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Permeable Asphalt (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) | Elevation (ft) |
|--------------|----------------|----------------|----------------|----------------|----------------|
| 20.250 | 634.36 | 634.36 | 634.36 | 634.36 | 634.36 |
| 20.500 | 634.36 | 634.36 | 634.36 | 634.35 | 634.35 |
| 20.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 21.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 21.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 21.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 21.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 22.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 22.250 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 22.500 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 22.750 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 23.000 | 634.35 | 634.35 | 634.35 | 634.35 | 634.35 |
| 23.250 | 634.35 | 634.35 | 634.35 | 634.34 | 634.34 |
| 23.500 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 23.750 | 634.34 | 634.34 | 634.34 | 634.34 | 634.34 |
| 24.000 | 634.34 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: DB-1C-2B
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 0 | 0 | 0 | 0 | 0 |
| 7.750 | 0 | 0 | 0 | 0 | 0 |
| 8.000 | 0 | 0 | 0 | 0 | 0 |
| 8.250 | 0 | 0 | 0 | 0 | 0 |
| 8.500 | 0 | 0 | 0 | 0 | 0 |
| 8.750 | 0 | 0 | 0 | 0 | 0 |
| 9.000 | 0 | 0 | 0 | 0 | 0 |
| 9.250 | 0 | 0 | 0 | 0 | 0 |
| 9.500 | 0 | 0 | 0 | 0 | 0 |
| 9.750 | 0 | 0 | 0 | 0 | 0 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: DB-1C-2B
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10.000 | 0 | 0 | 0 | 0 | 0 |
| 10.250 | 0 | 0 | 0 | 0 | 0 |
| 10.500 | 0 | 0 | 0 | 0 | 0 |
| 10.750 | 0 | 0 | 0 | 0 | 0 |
| 11.000 | 0 | 0 | 0 | 0 | 0 |
| 11.250 | 0 | 0 | 0 | 0 | 0 |
| 11.500 | 0 | 0 | 0 | 0 | 0 |
| 11.750 | 0 | 0 | 0 | 0 | 0 |
| 12.000 | 0 | 0 | 0 | 0 | 0 |
| 12.250 | 0 | 0 | 0 | 0 | 0 |
| 12.500 | 0 | 0 | 0 | 0 | 0 |
| 12.750 | 0 | 0 | 0 | 0 | 0 |
| 13.000 | 0 | 0 | 0 | 0 | 0 |
| 13.250 | 0 | 0 | 0 | 0 | 0 |
| 13.500 | 0 | 0 | 0 | 0 | 0 |
| 13.750 | 0 | 0 | 0 | 0 | 0 |
| 14.000 | 0 | 0 | 0 | 0 | 0 |
| 14.250 | 0 | 0 | 0 | 0 | 0 |
| 14.500 | 0 | 0 | 0 | 0 | 0 |
| 14.750 | 0 | 0 | 0 | 0 | 0 |
| 15.000 | 0 | 0 | 0 | 0 | 0 |
| 15.250 | 0 | 0 | 0 | 0 | 0 |
| 15.500 | 0 | 0 | 0 | 0 | 0 |
| 15.750 | 0 | 0 | 0 | 0 | 0 |
| 16.000 | 0 | 0 | 0 | 0 | 0 |
| 16.250 | 0 | 0 | 0 | 0 | 0 |
| 16.500 | 0 | 0 | 0 | 0 | 0 |
| 16.750 | 0 | 0 | 0 | 0 | 0 |
| 17.000 | 0 | 0 | 0 | 0 | 0 |
| 17.250 | 0 | 0 | 0 | 0 | 0 |
| 17.500 | 0 | 0 | 0 | 0 | 0 |
| 17.750 | 0 | 0 | 0 | 0 | 0 |
| 18.000 | 0 | 0 | 0 | 0 | 0 |
| 18.250 | 0 | 0 | 0 | 0 | 0 |
| 18.500 | 0 | 0 | 0 | 0 | 0 |
| 18.750 | 0 | 0 | 0 | 0 | 0 |
| 19.000 | 0 | 0 | 0 | 0 | 0 |
| 19.250 | 0 | 0 | 0 | 0 | 0 |
| 19.500 | 0 | 0 | 0 | 0 | 0 |
| 19.750 | 0 | 0 | 0 | 0 | 0 |
| 20.000 | 0 | 0 | 0 | 0 | 0 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 1 years

Label: DB-1C-2B

Storm Event: 1 year

Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 20.250 | 0 | 0 | 0 | 0 | 0 |
| 20.500 | 0 | 0 | 0 | 0 | 0 |
| 20.750 | 0 | 0 | 0 | 0 | 0 |
| 21.000 | 0 | 0 | 0 | 0 | 0 |
| 21.250 | 0 | 0 | 0 | 0 | 0 |
| 21.500 | 0 | 0 | 0 | 0 | 0 |
| 21.750 | 0 | 0 | 0 | 0 | 0 |
| 22.000 | 0 | 0 | 0 | 0 | 0 |
| 22.250 | 0 | 0 | 0 | 0 | 0 |
| 22.500 | 0 | 0 | 0 | 0 | 0 |
| 22.750 | 0 | 0 | 0 | 0 | 0 |
| 23.000 | 0 | 0 | 0 | 0 | 0 |
| 23.250 | 0 | 0 | 0 | 0 | 0 |
| 23.500 | 0 | 0 | 0 | 0 | 0 |
| 23.750 | 0 | 0 | 0 | 0 | 0 |
| 24.000 | 0 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: DB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 0 | 0 | 0 | 0 | 0 |
| 7.750 | 0 | 0 | 0 | 0 | 0 |
| 8.000 | 0 | 0 | 0 | 0 | 0 |
| 8.250 | 0 | 0 | 0 | 0 | 0 |
| 8.500 | 0 | 0 | 0 | 0 | 0 |
| 8.750 | 0 | 0 | 0 | 0 | 0 |
| 9.000 | 0 | 0 | 0 | 0 | 0 |
| 9.250 | 0 | 0 | 0 | 0 | 0 |
| 9.500 | 0 | 0 | 0 | 0 | 0 |
| 9.750 | 0 | 0 | 0 | 0 | 0 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: DB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 0 | 0 | 0 | 0 | 0 |
| 10.250 | 0 | 0 | 0 | 0 | 0 |
| 10.500 | 0 | 0 | 0 | 0 | 0 |
| 10.750 | 0 | 0 | 0 | 0 | 0 |
| 11.000 | 0 | 0 | 0 | 0 | 0 |
| 11.250 | 0 | 0 | 0 | 0 | 0 |
| 11.500 | 0 | 0 | 0 | 0 | 0 |
| 11.750 | 0 | 0 | 0 | 0 | 0 |
| 12.000 | 0 | 40 | 1,076 | 3,744 | 7,057 |
| 12.250 | 9,742 | 11,084 | 11,425 | 11,645 | 11,823 |
| 12.500 | 11,706 | 11,424 | 11,078 | 10,654 | 10,189 |
| 12.750 | 9,745 | 9,316 | 8,913 | 8,530 | 8,171 |
| 13.000 | 7,832 | 7,506 | 7,196 | 6,905 | 6,634 |
| 13.250 | 6,378 | 6,148 | 5,924 | 5,715 | 5,532 |
| 13.500 | 5,352 | 5,176 | 5,020 | 4,878 | 4,735 |
| 13.750 | 4,590 | 4,457 | 4,341 | 4,228 | 4,115 |
| 14.000 | 3,998 | 3,882 | 3,779 | 3,686 | 3,594 |
| 14.250 | 3,504 | 3,418 | 3,329 | 3,238 | 3,158 |
| 14.500 | 3,089 | 3,021 | 2,955 | 2,890 | 2,828 |
| 14.750 | 2,767 | 2,703 | 2,636 | 2,569 | 2,509 |
| 15.000 | 2,455 | 2,404 | 2,353 | 2,302 | 2,251 |
| 15.250 | 2,202 | 2,153 | 2,104 | 2,055 | 2,001 |
| 15.500 | 1,943 | 1,884 | 1,829 | 1,781 | 1,736 |
| 15.750 | 1,690 | 1,644 | 1,598 | 1,552 | 1,505 |
| 16.000 | 1,459 | 1,414 | 1,371 | 1,326 | 1,276 |
| 16.250 | 1,226 | 1,178 | 1,137 | 1,101 | 1,069 |
| 16.500 | 1,040 | 1,012 | 985 | 960 | 936 |
| 16.750 | 912 | 890 | 868 | 848 | 828 |
| 17.000 | 808 | 790 | 772 | 755 | 739 |
| 17.250 | 723 | 708 | 693 | 679 | 662 |
| 17.500 | 642 | 622 | 600 | 579 | 557 |
| 17.750 | 535 | 513 | 492 | 472 | 452 |
| 18.000 | 432 | 414 | 396 | 378 | 361 |
| 18.250 | 345 | 329 | 314 | 300 | 286 |
| 18.500 | 273 | 260 | 248 | 236 | 225 |
| 18.750 | 215 | 205 | 195 | 186 | 177 |
| 19.000 | 169 | 161 | 153 | 146 | 139 |
| 19.250 | 133 | 127 | 121 | 115 | 110 |
| 19.500 | 105 | 100 | 96 | 91 | 87 |
| 19.750 | 83 | 80 | 76 | 73 | 69 |
| 20.000 | 66 | 63 | 61 | 58 | 56 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: DB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 53 | 51 | 49 | 47 | 45 |
| 20.500 | 43 | 41 | 39 | 38 | 36 |
| 20.750 | 35 | 33 | 32 | 31 | 29 |
| 21.000 | 28 | 27 | 26 | 25 | 24 |
| 21.250 | 23 | 22 | 21 | 21 | 20 |
| 21.500 | 19 | 19 | 18 | 17 | 17 |
| 21.750 | 16 | 16 | 15 | 15 | 14 |
| 22.000 | 14 | 13 | 13 | 13 | 12 |
| 22.250 | 12 | 12 | 11 | 11 | 11 |
| 22.500 | 11 | 10 | 10 | 10 | 10 |
| 22.750 | 10 | 9 | 9 | 9 | 9 |
| 23.000 | 9 | 9 | 8 | 8 | 8 |
| 23.250 | 8 | 8 | 8 | 8 | 8 |
| 23.500 | 8 | 7 | 7 | 7 | 7 |
| 23.750 | 7 | 7 | 7 | 7 | 7 |
| 24.000 | 7 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: DB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 0 | 0 | 0 | 0 | 0 |
| 7.750 | 0 | 0 | 0 | 0 | 0 |
| 8.000 | 0 | 0 | 0 | 0 | 0 |
| 8.250 | 0 | 0 | 0 | 0 | 0 |
| 8.500 | 0 | 0 | 0 | 0 | 0 |
| 8.750 | 0 | 0 | 0 | 0 | 0 |
| 9.000 | 0 | 0 | 0 | 0 | 0 |
| 9.250 | 0 | 0 | 0 | 0 | 0 |
| 9.500 | 0 | 0 | 0 | 0 | 0 |
| 9.750 | 0 | 0 | 0 | 0 | 0 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: DB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 0 | 0 | 0 | 0 | 0 |
| 10.250 | 0 | 0 | 0 | 0 | 0 |
| 10.500 | 0 | 0 | 0 | 0 | 0 |
| 10.750 | 0 | 0 | 0 | 0 | 0 |
| 11.000 | 0 | 0 | 0 | 0 | 0 |
| 11.250 | 0 | 0 | 0 | 0 | 0 |
| 11.500 | 0 | 0 | 0 | 0 | 0 |
| 11.750 | 0 | 0 | 0 | 0 | 428 |
| 12.000 | 2,039 | 4,988 | 8,732 | 12,426 | 15,238 |
| 12.250 | 16,709 | 17,226 | 17,430 | 17,427 | 17,138 |
| 12.500 | 16,646 | 16,025 | 15,305 | 14,542 | 13,778 |
| 12.750 | 13,056 | 12,391 | 11,770 | 11,193 | 10,671 |
| 13.000 | 10,182 | 9,712 | 9,274 | 8,879 | 8,508 |
| 13.250 | 8,164 | 7,850 | 7,561 | 7,291 | 7,043 |
| 13.500 | 6,823 | 6,603 | 6,398 | 6,221 | 6,042 |
| 13.750 | 5,867 | 5,714 | 5,571 | 5,426 | 5,278 |
| 14.000 | 5,144 | 5,025 | 4,907 | 4,790 | 4,670 |
| 14.250 | 4,554 | 4,456 | 4,366 | 4,277 | 4,190 |
| 14.500 | 4,106 | 4,018 | 3,932 | 3,856 | 3,789 |
| 14.750 | 3,721 | 3,655 | 3,590 | 3,527 | 3,466 |
| 15.000 | 3,401 | 3,332 | 3,265 | 3,205 | 3,149 |
| 15.250 | 3,095 | 3,041 | 2,986 | 2,933 | 2,879 |
| 15.500 | 2,827 | 2,774 | 2,717 | 2,656 | 2,594 |
| 15.750 | 2,535 | 2,481 | 2,431 | 2,381 | 2,329 |
| 16.000 | 2,277 | 2,225 | 2,173 | 2,122 | 2,070 |
| 16.250 | 2,016 | 1,958 | 1,898 | 1,843 | 1,795 |
| 16.500 | 1,752 | 1,710 | 1,669 | 1,628 | 1,588 |
| 16.750 | 1,548 | 1,509 | 1,470 | 1,432 | 1,395 |
| 17.000 | 1,357 | 1,314 | 1,265 | 1,215 | 1,169 |
| 17.250 | 1,129 | 1,095 | 1,064 | 1,035 | 1,007 |
| 17.500 | 981 | 956 | 932 | 909 | 887 |
| 17.750 | 866 | 845 | 826 | 807 | 788 |
| 18.000 | 771 | 754 | 738 | 722 | 707 |
| 18.250 | 693 | 678 | 660 | 641 | 620 |
| 18.500 | 598 | 575 | 553 | 531 | 509 |
| 18.750 | 487 | 466 | 446 | 426 | 407 |
| 19.000 | 388 | 370 | 353 | 337 | 321 |
| 19.250 | 306 | 292 | 279 | 266 | 253 |
| 19.500 | 241 | 230 | 219 | 209 | 199 |
| 19.750 | 190 | 181 | 173 | 165 | 157 |
| 20.000 | 150 | 143 | 137 | 130 | 124 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: DB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 119 | 113 | 108 | 103 | 99 |
| 20.500 | 94 | 90 | 86 | 82 | 78 |
| 20.750 | 75 | 72 | 68 | 65 | 63 |
| 21.000 | 60 | 57 | 55 | 52 | 50 |
| 21.250 | 48 | 46 | 44 | 42 | 41 |
| 21.500 | 39 | 38 | 36 | 35 | 33 |
| 21.750 | 32 | 31 | 30 | 29 | 28 |
| 22.000 | 27 | 26 | 25 | 24 | 23 |
| 22.250 | 22 | 22 | 21 | 20 | 20 |
| 22.500 | 19 | 19 | 18 | 17 | 17 |
| 22.750 | 16 | 16 | 16 | 15 | 15 |
| 23.000 | 15 | 14 | 14 | 14 | 13 |
| 23.250 | 13 | 13 | 13 | 12 | 12 |
| 23.500 | 12 | 12 | 11 | 11 | 11 |
| 23.750 | 11 | 11 | 11 | 10 | 10 |
| 24.000 | 10 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: DB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 0 | 0 | 0 | 0 | 0 |
| 7.750 | 0 | 0 | 0 | 0 | 0 |
| 8.000 | 0 | 0 | 0 | 0 | 0 |
| 8.250 | 0 | 0 | 0 | 0 | 0 |
| 8.500 | 0 | 0 | 0 | 0 | 0 |
| 8.750 | 0 | 0 | 0 | 0 | 0 |
| 9.000 | 0 | 0 | 0 | 0 | 0 |
| 9.250 | 0 | 0 | 0 | 0 | 0 |
| 9.500 | 0 | 0 | 0 | 0 | 0 |
| 9.750 | 0 | 0 | 0 | 0 | 0 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: DB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10.000 | 0 | 0 | 0 | 0 | 0 |
| 10.250 | 0 | 0 | 0 | 0 | 0 |
| 10.500 | 0 | 0 | 0 | 0 | 0 |
| 10.750 | 0 | 0 | 0 | 0 | 0 |
| 11.000 | 0 | 0 | 0 | 0 | 0 |
| 11.250 | 0 | 0 | 0 | 0 | 37 |
| 11.500 | 259 | 780 | 1,563 | 2,537 | 3,654 |
| 11.750 | 4,909 | 6,322 | 7,898 | 9,616 | 11,522 |
| 12.000 | 13,858 | 16,898 | 20,623 | 23,819 | 25,868 |
| 12.250 | 26,897 | 26,883 | 26,340 | 25,626 | 24,766 |
| 12.500 | 23,832 | 22,804 | 21,678 | 20,425 | 19,153 |
| 12.750 | 18,011 | 16,977 | 16,035 | 15,183 | 14,394 |
| 13.000 | 13,688 | 13,037 | 12,421 | 11,856 | 11,351 |
| 13.250 | 10,896 | 10,471 | 10,082 | 9,735 | 9,412 |
| 13.500 | 9,115 | 8,850 | 8,591 | 8,353 | 8,138 |
| 13.750 | 7,926 | 7,732 | 7,555 | 7,369 | 7,195 |
| 14.000 | 7,045 | 6,894 | 6,734 | 6,584 | 6,458 |
| 14.250 | 6,335 | 6,213 | 6,090 | 5,973 | 5,873 |
| 14.500 | 5,782 | 5,688 | 5,597 | 5,511 | 5,419 |
| 14.750 | 5,327 | 5,249 | 5,179 | 5,105 | 5,031 |
| 15.000 | 4,960 | 4,891 | 4,820 | 4,744 | 4,668 |
| 15.250 | 4,600 | 4,537 | 4,474 | 4,410 | 4,346 |
| 15.500 | 4,283 | 4,220 | 4,156 | 4,088 | 4,015 |
| 15.750 | 3,945 | 3,882 | 3,821 | 3,759 | 3,696 |
| 16.000 | 3,632 | 3,569 | 3,506 | 3,444 | 3,376 |
| 16.250 | 3,305 | 3,240 | 3,183 | 3,131 | 3,079 |
| 16.500 | 3,029 | 2,979 | 2,931 | 2,884 | 2,838 |
| 16.750 | 2,794 | 2,749 | 2,699 | 2,646 | 2,596 |
| 17.000 | 2,550 | 2,507 | 2,467 | 2,428 | 2,389 |
| 17.250 | 2,350 | 2,311 | 2,273 | 2,234 | 2,196 |
| 17.500 | 2,158 | 2,120 | 2,081 | 2,041 | 1,995 |
| 17.750 | 1,948 | 1,901 | 1,856 | 1,814 | 1,777 |
| 18.000 | 1,740 | 1,703 | 1,666 | 1,628 | 1,591 |
| 18.250 | 1,555 | 1,519 | 1,485 | 1,452 | 1,420 |
| 18.500 | 1,389 | 1,357 | 1,322 | 1,282 | 1,242 |
| 18.750 | 1,203 | 1,166 | 1,133 | 1,105 | 1,080 |
| 19.000 | 1,057 | 1,034 | 1,011 | 989 | 967 |
| 19.250 | 946 | 924 | 903 | 882 | 861 |
| 19.500 | 841 | 821 | 802 | 784 | 766 |
| 19.750 | 749 | 733 | 717 | 702 | 688 |
| 20.000 | 672 | 655 | 634 | 613 | 591 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: DB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 568 | 546 | 524 | 502 | 480 |
| 20.500 | 459 | 439 | 420 | 401 | 383 |
| 20.750 | 365 | 348 | 332 | 317 | 302 |
| 21.000 | 288 | 275 | 262 | 250 | 238 |
| 21.250 | 227 | 217 | 207 | 197 | 188 |
| 21.500 | 179 | 171 | 163 | 156 | 149 |
| 21.750 | 142 | 135 | 129 | 123 | 118 |
| 22.000 | 113 | 108 | 103 | 98 | 94 |
| 22.250 | 90 | 86 | 83 | 79 | 76 |
| 22.500 | 73 | 70 | 67 | 64 | 61 |
| 22.750 | 59 | 56 | 54 | 52 | 50 |
| 23.000 | 48 | 46 | 45 | 43 | 42 |
| 23.250 | 40 | 39 | 37 | 36 | 35 |
| 23.500 | 34 | 32 | 31 | 30 | 30 |
| 23.750 | 29 | 28 | 27 | 26 | 26 |
| 24.000 | 25 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: IB-1C-2B
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 0 | 0 | 0 | 0 | 0 |
| 7.750 | 0 | 0 | 0 | 0 | 0 |
| 8.000 | 0 | 0 | 0 | 0 | 0 |
| 8.250 | 0 | 0 | 0 | 0 | 0 |
| 8.500 | 0 | 0 | 0 | 0 | 0 |
| 8.750 | 0 | 0 | 0 | 0 | 0 |
| 9.000 | 0 | 0 | 0 | 0 | 0 |
| 9.250 | 0 | 0 | 0 | 0 | 0 |
| 9.500 | 0 | 0 | 0 | 0 | 0 |
| 9.750 | 0 | 0 | 0 | 0 | 1 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 1 years

Label: IB-1C-2B

Storm Event: 1 year

Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 2 | 2 | 3 | 4 | 5 |
| 10.250 | 6 | 7 | 9 | 10 | 11 |
| 10.500 | 13 | 14 | 16 | 17 | 19 |
| 10.750 | 21 | 22 | 24 | 26 | 28 |
| 11.000 | 30 | 32 | 35 | 38 | 42 |
| 11.250 | 46 | 50 | 55 | 61 | 66 |
| 11.500 | 73 | 81 | 97 | 121 | 156 |
| 11.750 | 214 | 369 | 637 | 1,039 | 1,628 |
| 12.000 | 2,550 | 3,935 | 5,757 | 7,850 | 9,925 |
| 12.250 | 11,738 | 13,249 | 14,526 | 15,614 | 16,528 |
| 12.500 | 17,273 | 17,855 | 18,294 | 18,618 | 18,861 |
| 12.750 | 19,055 | 19,215 | 19,351 | 19,465 | 19,560 |
| 13.000 | 19,636 | 19,694 | 19,736 | 19,765 | 19,784 |
| 13.250 | 19,795 | 19,801 | 19,803 | 19,806 | 19,808 |
| 13.500 | 19,810 | 19,813 | 19,815 | 19,817 | 19,820 |
| 13.750 | 19,822 | 19,824 | 19,827 | 19,829 | 19,832 |
| 14.000 | 19,834 | 19,837 | 19,839 | 19,841 | 19,842 |
| 14.250 | 19,843 | 19,845 | 19,846 | 19,847 | 19,848 |
| 14.500 | 19,849 | 19,850 | 19,852 | 19,853 | 19,854 |
| 14.750 | 19,855 | 19,856 | 19,857 | 19,859 | 19,860 |
| 15.000 | 19,861 | 19,862 | 19,864 | 19,865 | 19,866 |
| 15.250 | 19,867 | 19,868 | 19,870 | 19,871 | 19,872 |
| 15.500 | 19,873 | 19,875 | 19,876 | 19,877 | 19,879 |
| 15.750 | 19,880 | 19,881 | 19,882 | 19,884 | 19,885 |
| 16.000 | 19,886 | 19,887 | 19,889 | 19,889 | 19,890 |
| 16.250 | 19,891 | 19,892 | 19,892 | 19,893 | 19,893 |
| 16.500 | 19,894 | 19,894 | 19,895 | 19,896 | 19,896 |
| 16.750 | 19,897 | 19,897 | 19,898 | 19,898 | 19,899 |
| 17.000 | 19,899 | 19,900 | 19,901 | 19,901 | 19,902 |
| 17.250 | 19,902 | 19,903 | 19,903 | 19,904 | 19,905 |
| 17.500 | 19,905 | 19,906 | 19,906 | 19,907 | 19,907 |
| 17.750 | 19,908 | 19,909 | 19,909 | 19,910 | 19,910 |
| 18.000 | 19,911 | 19,912 | 19,912 | 19,912 | 19,913 |
| 18.250 | 19,913 | 19,913 | 19,913 | 19,913 | 19,914 |
| 18.500 | 19,914 | 19,914 | 19,914 | 19,914 | 19,914 |
| 18.750 | 19,915 | 19,915 | 19,915 | 19,915 | 19,915 |
| 19.000 | 19,915 | 19,916 | 19,916 | 19,916 | 19,916 |
| 19.250 | 19,916 | 19,916 | 19,917 | 19,917 | 19,917 |
| 19.500 | 19,917 | 19,917 | 19,917 | 19,918 | 19,918 |
| 19.750 | 19,918 | 19,918 | 19,918 | 19,918 | 19,919 |
| 20.000 | 19,919 | 19,919 | 19,919 | 19,919 | 19,919 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 1 years

Label: IB-1C-2B

Storm Event: 1 year

Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 19,919 | 19,920 | 19,920 | 19,920 | 19,920 |
| 20.500 | 19,920 | 19,920 | 19,920 | 19,921 | 19,921 |
| 20.750 | 19,921 | 19,921 | 19,921 | 19,921 | 19,921 |
| 21.000 | 19,921 | 19,922 | 19,922 | 19,922 | 19,922 |
| 21.250 | 19,922 | 19,922 | 19,922 | 19,923 | 19,923 |
| 21.500 | 19,923 | 19,923 | 19,923 | 19,923 | 19,923 |
| 21.750 | 19,923 | 19,924 | 19,924 | 19,924 | 19,924 |
| 22.000 | 19,924 | 19,924 | 19,924 | 19,925 | 19,925 |
| 22.250 | 19,925 | 19,925 | 19,925 | 19,925 | 19,925 |
| 22.500 | 19,925 | 19,926 | 19,926 | 19,926 | 19,926 |
| 22.750 | 19,926 | 19,926 | 19,926 | 19,927 | 19,927 |
| 23.000 | 19,927 | 19,927 | 19,927 | 19,927 | 19,927 |
| 23.250 | 19,927 | 19,928 | 19,928 | 19,928 | 19,928 |
| 23.500 | 19,928 | 19,928 | 19,928 | 19,929 | 19,929 |
| 23.750 | 19,929 | 19,929 | 19,929 | 19,929 | 19,929 |
| 24.000 | 19,930 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: IB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 0 | 0 | 0 | 0 | 0 |
| 6.750 | 0 | 0 | 0 | 0 | 0 |
| 7.000 | 0 | 0 | 0 | 0 | 0 |
| 7.250 | 0 | 0 | 0 | 0 | 0 |
| 7.500 | 1 | 1 | 2 | 3 | 3 |
| 7.750 | 4 | 5 | 6 | 6 | 7 |
| 8.000 | 8 | 9 | 10 | 11 | 12 |
| 8.250 | 13 | 14 | 15 | 16 | 18 |
| 8.500 | 19 | 20 | 22 | 23 | 25 |
| 8.750 | 26 | 28 | 30 | 31 | 33 |
| 9.000 | 35 | 37 | 39 | 41 | 43 |
| 9.250 | 45 | 47 | 49 | 51 | 54 |
| 9.500 | 56 | 58 | 61 | 63 | 66 |
| 9.750 | 68 | 71 | 73 | 76 | 79 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: IB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 81 | 84 | 87 | 91 | 95 |
| 10.250 | 99 | 103 | 107 | 112 | 117 |
| 10.500 | 121 | 126 | 131 | 136 | 142 |
| 10.750 | 147 | 152 | 165 | 189 | 225 |
| 11.000 | 272 | 332 | 407 | 501 | 619 |
| 11.250 | 764 | 941 | 1,151 | 1,395 | 1,675 |
| 11.500 | 1,992 | 2,357 | 2,808 | 3,397 | 4,188 |
| 11.750 | 5,241 | 6,602 | 8,308 | 10,394 | 13,001 |
| 12.000 | 16,521 | 21,187 | 24,879 | 27,151 | 28,456 |
| 12.250 | 29,486 | 30,945 | 32,196 | 32,562 | 32,778 |
| 12.500 | 32,874 | 32,735 | 32,389 | 32,011 | 31,537 |
| 12.750 | 31,048 | 30,579 | 30,117 | 29,702 | 29,283 |
| 13.000 | 28,909 | 28,539 | 28,205 | 27,868 | 27,568 |
| 13.250 | 27,278 | 27,000 | 26,769 | 26,531 | 26,303 |
| 13.500 | 26,113 | 25,930 | 25,742 | 25,567 | 25,413 |
| 13.750 | 25,277 | 25,128 | 24,980 | 24,846 | 24,717 |
| 14.000 | 24,608 | 24,497 | 24,375 | 24,258 | 24,149 |
| 14.250 | 24,045 | 23,944 | 23,864 | 23,784 | 23,696 |
| 14.500 | 23,607 | 23,525 | 23,446 | 23,370 | 23,295 |
| 14.750 | 23,223 | 23,160 | 23,104 | 23,047 | 22,985 |
| 15.000 | 22,919 | 22,854 | 22,792 | 22,730 | 22,669 |
| 15.250 | 22,608 | 22,548 | 22,489 | 22,430 | 22,382 |
| 15.500 | 22,336 | 22,290 | 22,237 | 22,178 | 22,119 |
| 15.750 | 22,059 | 22,000 | 21,941 | 21,881 | 21,821 |
| 16.000 | 21,763 | 21,709 | 21,656 | 21,613 | 21,578 |
| 16.250 | 21,547 | 21,513 | 21,476 | 21,439 | 21,401 |
| 16.500 | 21,364 | 21,328 | 21,293 | 21,260 | 21,228 |
| 16.750 | 21,197 | 21,167 | 21,138 | 21,111 | 21,084 |
| 17.000 | 21,058 | 21,034 | 21,010 | 20,988 | 20,966 |
| 17.250 | 20,945 | 20,925 | 20,905 | 20,887 | 20,873 |
| 17.500 | 20,861 | 20,852 | 20,845 | 20,838 | 20,833 |
| 17.750 | 20,829 | 20,826 | 20,823 | 20,821 | 20,819 |
| 18.000 | 20,817 | 20,816 | 20,815 | 20,813 | 20,812 |
| 18.250 | 20,811 | 20,810 | 20,810 | 20,809 | 20,808 |
| 18.500 | 20,808 | 20,808 | 20,807 | 20,807 | 20,807 |
| 18.750 | 20,807 | 20,807 | 20,806 | 20,806 | 20,806 |
| 19.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 19.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 19.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 19.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 20.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: IB-1C-2B

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 20.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 20.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.000 | 20,805 | 20,805 | 20,805 | 20,806 | 20,806 |
| 21.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.500 | 20,806 | 20,806 | 20,806 | 20,805 | 20,806 |
| 21.750 | 20,806 | 20,805 | 20,805 | 20,805 | 20,806 |
| 22.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 22.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,805 |
| 22.500 | 20,806 | 20,806 | 20,805 | 20,805 | 20,805 |
| 22.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.250 | 20,805 | 20,806 | 20,806 | 20,805 | 20,805 |
| 23.500 | 20,805 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 24.000 | 20,806 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: IB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 0 | 0 | 0 | 0 | 0 |
| 5.250 | 0 | 0 | 0 | 0 | 0 |
| 5.500 | 0 | 0 | 0 | 0 | 0 |
| 5.750 | 0 | 0 | 0 | 0 | 0 |
| 6.000 | 0 | 0 | 0 | 0 | 0 |
| 6.250 | 0 | 0 | 0 | 0 | 0 |
| 6.500 | 1 | 1 | 2 | 2 | 3 |
| 6.750 | 4 | 5 | 5 | 6 | 7 |
| 7.000 | 8 | 9 | 10 | 11 | 12 |
| 7.250 | 13 | 14 | 15 | 16 | 17 |
| 7.500 | 18 | 19 | 20 | 21 | 22 |
| 7.750 | 24 | 25 | 26 | 27 | 29 |
| 8.000 | 30 | 31 | 33 | 34 | 36 |
| 8.250 | 38 | 40 | 42 | 44 | 46 |
| 8.500 | 48 | 50 | 53 | 55 | 58 |
| 8.750 | 60 | 63 | 65 | 68 | 71 |
| 9.000 | 74 | 76 | 79 | 82 | 85 |
| 9.250 | 88 | 92 | 95 | 98 | 102 |
| 9.500 | 105 | 108 | 112 | 115 | 119 |
| 9.750 | 123 | 126 | 130 | 134 | 138 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: IB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 142 | 146 | 150 | 159 | 179 |
| 10.250 | 210 | 254 | 310 | 379 | 462 |
| 10.500 | 559 | 669 | 793 | 933 | 1,086 |
| 10.750 | 1,255 | 1,439 | 1,638 | 1,854 | 2,085 |
| 11.000 | 2,332 | 2,597 | 2,883 | 3,197 | 3,546 |
| 11.250 | 3,935 | 4,369 | 4,851 | 5,383 | 5,966 |
| 11.500 | 6,602 | 7,307 | 8,136 | 9,166 | 10,490 |
| 11.750 | 12,192 | 14,334 | 16,963 | 20,121 | 23,098 |
| 12.000 | 25,556 | 27,783 | 29,960 | 32,200 | 34,528 |
| 12.250 | 36,799 | 38,197 | 38,743 | 38,870 | 38,813 |
| 12.500 | 38,458 | 37,940 | 37,252 | 36,476 | 35,666 |
| 12.750 | 34,852 | 34,085 | 33,385 | 32,732 | 32,106 |
| 13.000 | 31,547 | 31,035 | 30,549 | 30,075 | 29,666 |
| 13.250 | 29,264 | 28,913 | 28,574 | 28,283 | 27,992 |
| 13.500 | 27,721 | 27,503 | 27,268 | 27,044 | 26,863 |
| 13.750 | 26,679 | 26,492 | 26,319 | 26,166 | 26,028 |
| 14.000 | 25,873 | 25,723 | 25,586 | 25,454 | 25,346 |
| 14.250 | 25,230 | 25,107 | 24,995 | 24,891 | 24,791 |
| 14.500 | 24,698 | 24,621 | 24,542 | 24,454 | 24,369 |
| 14.750 | 24,289 | 24,212 | 24,136 | 24,061 | 23,989 |
| 15.000 | 23,927 | 23,870 | 23,809 | 23,745 | 23,677 |
| 15.250 | 23,610 | 23,546 | 23,482 | 23,418 | 23,354 |
| 15.500 | 23,292 | 23,229 | 23,173 | 23,122 | 23,070 |
| 15.750 | 23,015 | 22,952 | 22,888 | 22,825 | 22,762 |
| 16.000 | 22,699 | 22,635 | 22,572 | 22,510 | 22,448 |
| 16.250 | 22,395 | 22,348 | 22,302 | 22,253 | 22,199 |
| 16.500 | 22,143 | 22,089 | 22,037 | 21,985 | 21,934 |
| 16.750 | 21,884 | 21,834 | 21,785 | 21,737 | 21,689 |
| 17.000 | 21,642 | 21,605 | 21,572 | 21,541 | 21,507 |
| 17.250 | 21,470 | 21,432 | 21,395 | 21,358 | 21,323 |
| 17.500 | 21,288 | 21,255 | 21,224 | 21,193 | 21,164 |
| 17.750 | 21,135 | 21,108 | 21,082 | 21,057 | 21,032 |
| 18.000 | 21,009 | 20,987 | 20,965 | 20,944 | 20,923 |
| 18.250 | 20,903 | 20,884 | 20,870 | 20,859 | 20,849 |
| 18.500 | 20,842 | 20,835 | 20,830 | 20,826 | 20,822 |
| 18.750 | 20,819 | 20,817 | 20,815 | 20,814 | 20,812 |
| 19.000 | 20,811 | 20,810 | 20,810 | 20,809 | 20,809 |
| 19.250 | 20,808 | 20,808 | 20,808 | 20,807 | 20,807 |
| 19.500 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 19.750 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 20.000 | 20,807 | 20,807 | 20,807 | 20,807 | 20,806 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: IB-1C-2B

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 20.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 20.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 20.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 21.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 22.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 22.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 22.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 22.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.000 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.250 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.500 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 23.750 | 20,806 | 20,806 | 20,806 | 20,806 | 20,806 |
| 24.000 | 20,806 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: IB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|-----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 0 |
| 2.000 | 0 | 0 | 0 | 0 | 0 |
| 2.250 | 0 | 0 | 0 | 0 | 0 |
| 2.500 | 0 | 0 | 0 | 0 | 0 |
| 2.750 | 0 | 0 | 0 | 0 | 0 |
| 3.000 | 0 | 0 | 0 | 0 | 0 |
| 3.250 | 0 | 0 | 0 | 0 | 0 |
| 3.500 | 0 | 0 | 0 | 0 | 0 |
| 3.750 | 0 | 0 | 0 | 0 | 0 |
| 4.000 | 0 | 0 | 0 | 0 | 0 |
| 4.250 | 0 | 0 | 0 | 0 | 0 |
| 4.500 | 0 | 0 | 0 | 0 | 0 |
| 4.750 | 0 | 0 | 0 | 0 | 0 |
| 5.000 | 1 | 1 | 2 | 3 | 4 |
| 5.250 | 4 | 5 | 6 | 7 | 8 |
| 5.500 | 9 | 10 | 11 | 11 | 12 |
| 5.750 | 13 | 14 | 15 | 16 | 17 |
| 6.000 | 18 | 19 | 20 | 21 | 22 |
| 6.250 | 23 | 25 | 26 | 27 | 29 |
| 6.500 | 30 | 32 | 33 | 35 | 36 |
| 6.750 | 38 | 39 | 41 | 43 | 45 |
| 7.000 | 46 | 48 | 50 | 52 | 54 |
| 7.250 | 55 | 57 | 59 | 61 | 63 |
| 7.500 | 65 | 68 | 70 | 72 | 74 |
| 7.750 | 76 | 78 | 81 | 83 | 85 |
| 8.000 | 88 | 90 | 93 | 96 | 99 |
| 8.250 | 103 | 107 | 111 | 115 | 119 |
| 8.500 | 123 | 127 | 131 | 136 | 140 |
| 8.750 | 145 | 150 | 157 | 173 | 200 |
| 9.000 | 236 | 282 | 338 | 405 | 482 |
| 9.250 | 570 | 669 | 779 | 899 | 1,031 |
| 9.500 | 1,174 | 1,329 | 1,495 | 1,673 | 1,863 |
| 9.750 | 2,065 | 2,279 | 2,505 | 2,744 | 2,995 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: IB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 3,259 | 3,535 | 3,826 | 4,133 | 4,457 |
| 10.250 | 4,801 | 5,165 | 5,551 | 5,959 | 6,389 |
| 10.500 | 6,841 | 7,317 | 7,815 | 8,338 | 8,884 |
| 10.750 | 9,454 | 10,048 | 10,667 | 11,311 | 11,980 |
| 11.000 | 12,675 | 13,397 | 14,155 | 14,957 | 15,818 |
| 11.250 | 16,745 | 17,747 | 18,829 | 19,992 | 21,160 |
| 11.500 | 22,101 | 22,806 | 23,385 | 23,991 | 24,747 |
| 11.750 | 25,708 | 26,870 | 28,224 | 29,776 | 31,577 |
| 12.000 | 33,830 | 36,600 | 39,740 | 43,161 | 46,030 |
| 12.250 | 47,941 | 48,968 | 48,902 | 48,321 | 47,515 |
| 12.500 | 46,513 | 45,483 | 44,385 | 43,180 | 41,849 |
| 12.750 | 40,515 | 39,334 | 38,221 | 37,242 | 36,349 |
| 13.000 | 35,504 | 34,754 | 34,072 | 33,438 | 32,833 |
| 13.250 | 32,289 | 31,815 | 31,371 | 30,961 | 30,603 |
| 13.500 | 30,258 | 29,937 | 29,672 | 29,393 | 29,146 |
| 13.750 | 28,923 | 28,692 | 28,478 | 28,310 | 28,111 |
| 14.000 | 27,919 | 27,748 | 27,605 | 27,442 | 27,278 |
| 14.250 | 27,133 | 26,997 | 26,885 | 26,768 | 26,639 |
| 14.500 | 26,525 | 26,421 | 26,317 | 26,217 | 26,141 |
| 14.750 | 26,057 | 25,960 | 25,870 | 25,787 | 25,704 |
| 15.000 | 25,621 | 25,541 | 25,466 | 25,403 | 25,335 |
| 15.250 | 25,258 | 25,180 | 25,106 | 25,033 | 24,960 |
| 15.500 | 24,886 | 24,813 | 24,741 | 24,679 | 24,618 |
| 15.750 | 24,551 | 24,477 | 24,403 | 24,330 | 24,257 |
| 16.000 | 24,184 | 24,110 | 24,037 | 23,964 | 23,905 |
| 16.250 | 23,847 | 23,785 | 23,719 | 23,654 | 23,592 |
| 16.500 | 23,532 | 23,473 | 23,416 | 23,360 | 23,305 |
| 16.750 | 23,251 | 23,199 | 23,159 | 23,119 | 23,076 |
| 17.000 | 23,031 | 22,984 | 22,935 | 22,887 | 22,839 |
| 17.250 | 22,791 | 22,744 | 22,697 | 22,650 | 22,603 |
| 17.500 | 22,556 | 22,510 | 22,464 | 22,422 | 22,385 |
| 17.750 | 22,349 | 22,312 | 22,274 | 22,228 | 22,180 |
| 18.000 | 22,132 | 22,084 | 22,036 | 21,988 | 21,941 |
| 18.250 | 21,896 | 21,851 | 21,809 | 21,767 | 21,727 |
| 18.500 | 21,688 | 21,650 | 21,622 | 21,598 | 21,575 |
| 18.750 | 21,553 | 21,531 | 21,503 | 21,472 | 21,440 |
| 19.000 | 21,408 | 21,376 | 21,345 | 21,313 | 21,282 |
| 19.250 | 21,251 | 21,220 | 21,189 | 21,159 | 21,130 |
| 19.500 | 21,102 | 21,075 | 21,050 | 21,025 | 21,002 |
| 19.750 | 20,979 | 20,957 | 20,936 | 20,916 | 20,897 |
| 20.000 | 20,878 | 20,865 | 20,855 | 20,846 | 20,839 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: IB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 20,833 | 20,828 | 20,825 | 20,821 | 20,819 |
| 20.500 | 20,817 | 20,815 | 20,813 | 20,812 | 20,811 |
| 20.750 | 20,811 | 20,810 | 20,809 | 20,809 | 20,808 |
| 21.000 | 20,808 | 20,808 | 20,808 | 20,808 | 20,808 |
| 21.250 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 21.500 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 21.750 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 22.000 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 22.250 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 22.500 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 22.750 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 23.000 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 23.250 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 23.500 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 23.750 | 20,807 | 20,807 | 20,807 | 20,807 | 20,807 |
| 24.000 | 20,807 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 0 | 0 | 0 |
| 1.250 | 0 | 0 | 0 | 0 | 0 |
| 1.500 | 0 | 0 | 0 | 0 | 0 |
| 1.750 | 0 | 0 | 0 | 0 | 1 |
| 2.000 | 1 | 1 | 2 | 2 | 2 |
| 2.250 | 2 | 3 | 3 | 3 | 4 |
| 2.500 | 4 | 4 | 5 | 5 | 5 |
| 2.750 | 6 | 6 | 7 | 7 | 7 |
| 3.000 | 8 | 8 | 9 | 9 | 10 |
| 3.250 | 10 | 11 | 11 | 12 | 12 |
| 3.500 | 13 | 13 | 14 | 14 | 15 |
| 3.750 | 15 | 16 | 16 | 17 | 17 |
| 4.000 | 18 | 18 | 19 | 20 | 20 |
| 4.250 | 21 | 21 | 22 | 22 | 23 |
| 4.500 | 24 | 24 | 25 | 25 | 26 |
| 4.750 | 26 | 27 | 28 | 28 | 29 |
| 5.000 | 29 | 30 | 31 | 31 | 32 |
| 5.250 | 32 | 33 | 33 | 34 | 35 |
| 5.500 | 35 | 36 | 36 | 37 | 38 |
| 5.750 | 38 | 39 | 39 | 40 | 41 |
| 6.000 | 41 | 42 | 42 | 43 | 44 |
| 6.250 | 44 | 45 | 46 | 46 | 47 |
| 6.500 | 48 | 49 | 50 | 50 | 51 |
| 6.750 | 52 | 53 | 54 | 55 | 56 |
| 7.000 | 57 | 58 | 59 | 60 | 61 |
| 7.250 | 62 | 63 | 64 | 65 | 66 |
| 7.500 | 67 | 68 | 69 | 70 | 71 |
| 7.750 | 72 | 74 | 75 | 76 | 77 |
| 8.000 | 78 | 80 | 81 | 82 | 83 |
| 8.250 | 85 | 86 | 88 | 89 | 91 |
| 8.500 | 93 | 94 | 96 | 98 | 100 |
| 8.750 | 102 | 104 | 106 | 108 | 110 |
| 9.000 | 112 | 114 | 116 | 118 | 121 |
| 9.250 | 123 | 125 | 127 | 130 | 132 |
| 9.500 | 135 | 137 | 140 | 142 | 145 |
| 9.750 | 147 | 150 | 152 | 155 | 158 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 160 | 163 | 166 | 168 | 171 |
| 10.250 | 174 | 178 | 181 | 184 | 188 |
| 10.500 | 192 | 195 | 199 | 203 | 207 |
| 10.750 | 211 | 216 | 220 | 224 | 229 |
| 11.000 | 233 | 238 | 243 | 249 | 255 |
| 11.250 | 262 | 269 | 277 | 286 | 295 |
| 11.500 | 305 | 317 | 333 | 354 | 383 |
| 11.750 | 419 | 462 | 513 | 570 | 647 |
| 12.000 | 757 | 888 | 1,021 | 1,134 | 1,208 |
| 12.250 | 1,250 | 1,278 | 1,294 | 1,300 | 1,298 |
| 12.500 | 1,286 | 1,268 | 1,244 | 1,218 | 1,192 |
| 12.750 | 1,165 | 1,138 | 1,112 | 1,086 | 1,060 |
| 13.000 | 1,034 | 1,008 | 983 | 958 | 934 |
| 13.250 | 910 | 888 | 866 | 844 | 823 |
| 13.500 | 803 | 784 | 765 | 746 | 728 |
| 13.750 | 710 | 693 | 677 | 660 | 644 |
| 14.000 | 629 | 614 | 599 | 585 | 571 |
| 14.250 | 558 | 545 | 533 | 521 | 509 |
| 14.500 | 497 | 486 | 476 | 465 | 455 |
| 14.750 | 445 | 436 | 426 | 417 | 409 |
| 15.000 | 400 | 392 | 384 | 376 | 368 |
| 15.250 | 361 | 353 | 346 | 339 | 332 |
| 15.500 | 326 | 319 | 313 | 307 | 301 |
| 15.750 | 295 | 289 | 283 | 277 | 272 |
| 16.000 | 267 | 261 | 256 | 251 | 246 |
| 16.250 | 241 | 237 | 232 | 228 | 224 |
| 16.500 | 220 | 216 | 212 | 208 | 204 |
| 16.750 | 201 | 197 | 194 | 191 | 187 |
| 17.000 | 184 | 181 | 178 | 175 | 172 |
| 17.250 | 170 | 167 | 164 | 162 | 159 |
| 17.500 | 157 | 154 | 152 | 149 | 147 |
| 17.750 | 145 | 142 | 140 | 138 | 136 |
| 18.000 | 134 | 132 | 130 | 128 | 126 |
| 18.250 | 124 | 122 | 121 | 119 | 117 |
| 18.500 | 116 | 114 | 113 | 111 | 110 |
| 18.750 | 109 | 107 | 106 | 105 | 104 |
| 19.000 | 102 | 101 | 100 | 99 | 98 |
| 19.250 | 97 | 96 | 95 | 94 | 93 |
| 19.500 | 92 | 91 | 91 | 90 | 89 |
| 19.750 | 88 | 87 | 86 | 86 | 85 |
| 20.000 | 84 | 84 | 83 | 82 | 82 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 81 | 80 | 80 | 79 | 78 |
| 20.500 | 78 | 77 | 77 | 76 | 76 |
| 20.750 | 75 | 75 | 74 | 74 | 73 |
| 21.000 | 73 | 72 | 72 | 71 | 71 |
| 21.250 | 70 | 70 | 69 | 69 | 69 |
| 21.500 | 68 | 68 | 67 | 67 | 66 |
| 21.750 | 66 | 66 | 65 | 65 | 65 |
| 22.000 | 64 | 64 | 63 | 63 | 63 |
| 22.250 | 62 | 62 | 62 | 61 | 61 |
| 22.500 | 61 | 60 | 60 | 60 | 59 |
| 22.750 | 59 | 59 | 58 | 58 | 58 |
| 23.000 | 57 | 57 | 57 | 56 | 56 |
| 23.250 | 56 | 55 | 55 | 55 | 54 |
| 23.500 | 54 | 54 | 54 | 53 | 53 |
| 23.750 | 53 | 52 | 52 | 52 | 51 |
| 24.000 | 51 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: Permeable Asphalt

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 0 | 0 |
| 1.000 | 0 | 0 | 1 | 1 | 2 |
| 1.250 | 2 | 3 | 4 | 4 | 5 |
| 1.500 | 6 | 6 | 7 | 8 | 9 |
| 1.750 | 10 | 11 | 12 | 12 | 13 |
| 2.000 | 14 | 15 | 16 | 17 | 18 |
| 2.250 | 19 | 20 | 21 | 22 | 23 |
| 2.500 | 24 | 25 | 26 | 27 | 28 |
| 2.750 | 30 | 31 | 32 | 33 | 34 |
| 3.000 | 35 | 36 | 37 | 38 | 40 |
| 3.250 | 41 | 42 | 43 | 44 | 45 |
| 3.500 | 46 | 48 | 49 | 50 | 51 |
| 3.750 | 52 | 53 | 54 | 56 | 57 |
| 4.000 | 58 | 59 | 60 | 61 | 62 |
| 4.250 | 64 | 65 | 66 | 67 | 68 |
| 4.500 | 69 | 70 | 71 | 73 | 74 |
| 4.750 | 75 | 76 | 77 | 78 | 79 |
| 5.000 | 80 | 81 | 82 | 84 | 85 |
| 5.250 | 86 | 87 | 88 | 89 | 90 |
| 5.500 | 91 | 92 | 93 | 94 | 95 |
| 5.750 | 96 | 97 | 98 | 99 | 100 |
| 6.000 | 101 | 103 | 104 | 105 | 106 |
| 6.250 | 107 | 108 | 109 | 111 | 112 |
| 6.500 | 114 | 115 | 116 | 118 | 120 |
| 6.750 | 121 | 123 | 124 | 126 | 128 |
| 7.000 | 130 | 131 | 133 | 135 | 137 |
| 7.250 | 139 | 141 | 143 | 144 | 146 |
| 7.500 | 148 | 150 | 152 | 154 | 157 |
| 7.750 | 159 | 161 | 163 | 165 | 167 |
| 8.000 | 169 | 171 | 174 | 176 | 178 |
| 8.250 | 181 | 184 | 186 | 189 | 192 |
| 8.500 | 195 | 199 | 202 | 205 | 209 |
| 8.750 | 212 | 216 | 219 | 223 | 227 |
| 9.000 | 231 | 235 | 239 | 243 | 247 |
| 9.250 | 251 | 255 | 260 | 264 | 268 |
| 9.500 | 273 | 277 | 282 | 286 | 291 |
| 9.750 | 295 | 300 | 305 | 310 | 314 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: Permeable Asphalt

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 319 | 324 | 329 | 334 | 340 |
| 10.250 | 345 | 351 | 357 | 363 | 370 |
| 10.500 | 376 | 383 | 390 | 398 | 405 |
| 10.750 | 412 | 420 | 428 | 436 | 444 |
| 11.000 | 452 | 461 | 470 | 480 | 492 |
| 11.250 | 504 | 518 | 533 | 549 | 566 |
| 11.500 | 585 | 606 | 635 | 675 | 728 |
| 11.750 | 795 | 876 | 970 | 1,076 | 1,218 |
| 12.000 | 1,422 | 1,665 | 1,909 | 2,117 | 2,252 |
| 12.250 | 2,329 | 2,379 | 2,408 | 2,419 | 2,413 |
| 12.500 | 2,390 | 2,355 | 2,311 | 2,262 | 2,213 |
| 12.750 | 2,163 | 2,113 | 2,064 | 2,015 | 1,966 |
| 13.000 | 1,918 | 1,870 | 1,823 | 1,776 | 1,731 |
| 13.250 | 1,688 | 1,645 | 1,604 | 1,565 | 1,526 |
| 13.500 | 1,488 | 1,452 | 1,416 | 1,382 | 1,348 |
| 13.750 | 1,315 | 1,283 | 1,252 | 1,222 | 1,193 |
| 14.000 | 1,164 | 1,136 | 1,109 | 1,082 | 1,057 |
| 14.250 | 1,032 | 1,008 | 985 | 962 | 940 |
| 14.500 | 919 | 899 | 879 | 860 | 841 |
| 14.750 | 822 | 805 | 788 | 771 | 755 |
| 15.000 | 739 | 723 | 708 | 694 | 679 |
| 15.250 | 665 | 652 | 639 | 626 | 613 |
| 15.500 | 601 | 589 | 577 | 565 | 554 |
| 15.750 | 543 | 532 | 522 | 511 | 501 |
| 16.000 | 491 | 481 | 472 | 463 | 454 |
| 16.250 | 445 | 436 | 428 | 420 | 412 |
| 16.500 | 405 | 397 | 390 | 383 | 376 |
| 16.750 | 370 | 363 | 357 | 351 | 345 |
| 17.000 | 339 | 334 | 328 | 323 | 317 |
| 17.250 | 312 | 307 | 302 | 297 | 293 |
| 17.500 | 288 | 283 | 279 | 275 | 270 |
| 17.750 | 266 | 262 | 258 | 254 | 250 |
| 18.000 | 246 | 242 | 239 | 235 | 231 |
| 18.250 | 228 | 225 | 222 | 219 | 216 |
| 18.500 | 213 | 210 | 207 | 205 | 202 |
| 18.750 | 199 | 197 | 195 | 192 | 190 |
| 19.000 | 188 | 186 | 184 | 182 | 180 |
| 19.250 | 178 | 176 | 175 | 173 | 171 |
| 19.500 | 169 | 168 | 166 | 165 | 163 |
| 19.750 | 162 | 160 | 159 | 157 | 156 |
| 20.000 | 155 | 153 | 152 | 151 | 150 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 10 years

Label: Permeable Asphalt

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 148 | 147 | 146 | 145 | 144 |
| 20.500 | 143 | 142 | 141 | 140 | 139 |
| 20.750 | 138 | 137 | 136 | 135 | 134 |
| 21.000 | 133 | 132 | 131 | 131 | 130 |
| 21.250 | 129 | 128 | 127 | 127 | 126 |
| 21.500 | 125 | 124 | 123 | 123 | 122 |
| 21.750 | 121 | 121 | 120 | 119 | 118 |
| 22.000 | 118 | 117 | 116 | 116 | 115 |
| 22.250 | 114 | 114 | 113 | 113 | 112 |
| 22.500 | 111 | 111 | 110 | 109 | 109 |
| 22.750 | 108 | 108 | 107 | 106 | 106 |
| 23.000 | 105 | 105 | 104 | 103 | 103 |
| 23.250 | 102 | 102 | 101 | 100 | 100 |
| 23.500 | 99 | 99 | 98 | 98 | 97 |
| 23.750 | 96 | 96 | 95 | 95 | 94 |
| 24.000 | 94 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: Permeable Asphalt

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 0 | 0 |
| 0.750 | 0 | 0 | 0 | 1 | 2 |
| 1.000 | 2 | 3 | 4 | 5 | 6 |
| 1.250 | 7 | 8 | 9 | 10 | 11 |
| 1.500 | 13 | 14 | 15 | 16 | 18 |
| 1.750 | 19 | 20 | 22 | 23 | 24 |
| 2.000 | 26 | 27 | 28 | 30 | 31 |
| 2.250 | 33 | 34 | 35 | 37 | 38 |
| 2.500 | 40 | 41 | 42 | 44 | 45 |
| 2.750 | 47 | 48 | 50 | 51 | 53 |
| 3.000 | 54 | 56 | 57 | 59 | 60 |
| 3.250 | 62 | 63 | 65 | 66 | 67 |
| 3.500 | 69 | 70 | 72 | 73 | 75 |
| 3.750 | 76 | 78 | 79 | 81 | 82 |
| 4.000 | 83 | 85 | 86 | 88 | 89 |
| 4.250 | 91 | 92 | 93 | 95 | 96 |
| 4.500 | 98 | 99 | 100 | 102 | 103 |
| 4.750 | 104 | 106 | 107 | 108 | 110 |
| 5.000 | 111 | 112 | 114 | 115 | 116 |
| 5.250 | 118 | 119 | 120 | 122 | 123 |
| 5.500 | 124 | 126 | 127 | 128 | 129 |
| 5.750 | 131 | 132 | 133 | 134 | 136 |
| 6.000 | 137 | 138 | 139 | 141 | 142 |
| 6.250 | 143 | 145 | 147 | 148 | 150 |
| 6.500 | 152 | 153 | 155 | 157 | 159 |
| 6.750 | 161 | 163 | 165 | 167 | 169 |
| 7.000 | 171 | 174 | 176 | 178 | 180 |
| 7.250 | 183 | 185 | 188 | 190 | 192 |
| 7.500 | 195 | 197 | 200 | 202 | 205 |
| 7.750 | 208 | 210 | 213 | 215 | 218 |
| 8.000 | 221 | 223 | 226 | 229 | 232 |
| 8.250 | 235 | 239 | 242 | 246 | 250 |
| 8.500 | 253 | 257 | 261 | 266 | 270 |
| 8.750 | 274 | 279 | 283 | 288 | 293 |
| 9.000 | 298 | 303 | 308 | 313 | 318 |
| 9.250 | 323 | 329 | 334 | 339 | 345 |
| 9.500 | 350 | 356 | 362 | 367 | 373 |
| 9.750 | 379 | 385 | 391 | 396 | 402 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: Permeable Asphalt

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 408 | 415 | 421 | 427 | 434 |
| 10.250 | 441 | 448 | 456 | 464 | 472 |
| 10.500 | 480 | 489 | 498 | 507 | 516 |
| 10.750 | 525 | 535 | 545 | 555 | 565 |
| 11.000 | 575 | 586 | 598 | 611 | 625 |
| 11.250 | 641 | 658 | 677 | 697 | 719 |
| 11.500 | 742 | 769 | 806 | 856 | 922 |
| 11.750 | 1,007 | 1,109 | 1,227 | 1,362 | 1,541 |
| 12.000 | 1,798 | 2,103 | 2,411 | 2,673 | 2,842 |
| 12.250 | 2,940 | 3,002 | 3,038 | 3,052 | 3,044 |
| 12.500 | 3,015 | 2,971 | 2,915 | 2,854 | 2,791 |
| 12.750 | 2,728 | 2,665 | 2,603 | 2,541 | 2,480 |
| 13.000 | 2,419 | 2,358 | 2,298 | 2,240 | 2,183 |
| 13.250 | 2,128 | 2,075 | 2,023 | 1,973 | 1,924 |
| 13.500 | 1,876 | 1,830 | 1,785 | 1,742 | 1,699 |
| 13.750 | 1,658 | 1,618 | 1,579 | 1,541 | 1,503 |
| 14.000 | 1,467 | 1,432 | 1,398 | 1,364 | 1,332 |
| 14.250 | 1,301 | 1,270 | 1,241 | 1,213 | 1,185 |
| 14.500 | 1,159 | 1,133 | 1,107 | 1,083 | 1,059 |
| 14.750 | 1,036 | 1,014 | 992 | 971 | 951 |
| 15.000 | 931 | 911 | 892 | 874 | 856 |
| 15.250 | 838 | 821 | 804 | 788 | 772 |
| 15.500 | 757 | 742 | 727 | 712 | 698 |
| 15.750 | 684 | 670 | 657 | 644 | 631 |
| 16.000 | 619 | 606 | 594 | 583 | 571 |
| 16.250 | 560 | 549 | 539 | 529 | 519 |
| 16.500 | 510 | 500 | 491 | 482 | 474 |
| 16.750 | 466 | 458 | 450 | 442 | 434 |
| 17.000 | 427 | 420 | 413 | 406 | 400 |
| 17.250 | 393 | 387 | 380 | 374 | 368 |
| 17.500 | 363 | 357 | 351 | 346 | 340 |
| 17.750 | 335 | 330 | 325 | 320 | 315 |
| 18.000 | 310 | 305 | 300 | 296 | 291 |
| 18.250 | 287 | 283 | 279 | 275 | 271 |
| 18.500 | 268 | 264 | 261 | 257 | 254 |
| 18.750 | 251 | 248 | 245 | 242 | 240 |
| 19.000 | 237 | 234 | 232 | 229 | 227 |
| 19.250 | 224 | 222 | 220 | 218 | 215 |
| 19.500 | 213 | 211 | 209 | 207 | 205 |
| 19.750 | 204 | 202 | 200 | 198 | 196 |
| 20.000 | 195 | 193 | 191 | 190 | 188 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 25 years

Label: Permeable Asphalt

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 187 | 185 | 184 | 183 | 181 |
| 20.500 | 180 | 178 | 177 | 176 | 175 |
| 20.750 | 173 | 172 | 171 | 170 | 169 |
| 21.000 | 168 | 167 | 165 | 164 | 163 |
| 21.250 | 162 | 161 | 160 | 159 | 158 |
| 21.500 | 157 | 156 | 155 | 154 | 154 |
| 21.750 | 153 | 152 | 151 | 150 | 149 |
| 22.000 | 148 | 147 | 147 | 146 | 145 |
| 22.250 | 144 | 143 | 142 | 142 | 141 |
| 22.500 | 140 | 139 | 138 | 138 | 137 |
| 22.750 | 136 | 135 | 135 | 134 | 133 |
| 23.000 | 132 | 132 | 131 | 130 | 129 |
| 23.250 | 129 | 128 | 127 | 126 | 126 |
| 23.500 | 125 | 124 | 124 | 123 | 122 |
| 23.750 | 121 | 121 | 120 | 119 | 119 |
| 24.000 | 118 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: Permeable Asphalt

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 0.000 | 0 | 0 | 0 | 0 | 0 |
| 0.250 | 0 | 0 | 0 | 0 | 0 |
| 0.500 | 0 | 0 | 0 | 1 | 2 |
| 0.750 | 3 | 4 | 6 | 7 | 9 |
| 1.000 | 10 | 12 | 14 | 16 | 18 |
| 1.250 | 20 | 23 | 25 | 27 | 29 |
| 1.500 | 32 | 34 | 36 | 38 | 41 |
| 1.750 | 43 | 45 | 47 | 50 | 52 |
| 2.000 | 54 | 56 | 58 | 60 | 63 |
| 2.250 | 65 | 67 | 69 | 71 | 73 |
| 2.500 | 76 | 78 | 80 | 82 | 84 |
| 2.750 | 86 | 89 | 91 | 93 | 95 |
| 3.000 | 97 | 99 | 101 | 103 | 106 |
| 3.250 | 108 | 110 | 112 | 114 | 116 |
| 3.500 | 118 | 120 | 122 | 124 | 126 |
| 3.750 | 128 | 130 | 132 | 134 | 136 |
| 4.000 | 138 | 140 | 142 | 144 | 146 |
| 4.250 | 148 | 150 | 152 | 153 | 155 |
| 4.500 | 157 | 159 | 161 | 163 | 164 |
| 4.750 | 166 | 168 | 170 | 172 | 174 |
| 5.000 | 175 | 177 | 179 | 181 | 182 |
| 5.250 | 184 | 186 | 188 | 189 | 191 |
| 5.500 | 193 | 194 | 196 | 198 | 199 |
| 5.750 | 201 | 203 | 204 | 206 | 208 |
| 6.000 | 209 | 211 | 213 | 214 | 216 |
| 6.250 | 218 | 220 | 222 | 224 | 227 |
| 6.500 | 229 | 232 | 234 | 237 | 239 |
| 6.750 | 242 | 245 | 248 | 250 | 253 |
| 7.000 | 256 | 259 | 263 | 266 | 269 |
| 7.250 | 272 | 275 | 279 | 282 | 286 |
| 7.500 | 289 | 292 | 296 | 300 | 303 |
| 7.750 | 307 | 310 | 314 | 318 | 321 |
| 8.000 | 325 | 329 | 333 | 337 | 341 |
| 8.250 | 346 | 350 | 355 | 360 | 365 |
| 8.500 | 371 | 377 | 382 | 388 | 394 |
| 8.750 | 400 | 407 | 413 | 420 | 427 |
| 9.000 | 434 | 440 | 448 | 455 | 462 |
| 9.250 | 469 | 477 | 484 | 492 | 500 |
| 9.500 | 508 | 516 | 524 | 532 | 540 |
| 9.750 | 548 | 556 | 564 | 573 | 581 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: Permeable Asphalt

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 10.000 | 590 | 598 | 607 | 616 | 626 |
| 10.250 | 636 | 646 | 657 | 668 | 679 |
| 10.500 | 691 | 703 | 716 | 728 | 742 |
| 10.750 | 755 | 769 | 782 | 797 | 811 |
| 11.000 | 826 | 841 | 857 | 875 | 896 |
| 11.250 | 918 | 943 | 970 | 998 | 1,029 |
| 11.500 | 1,062 | 1,101 | 1,153 | 1,223 | 1,318 |
| 11.750 | 1,439 | 1,584 | 1,752 | 1,944 | 2,197 |
| 12.000 | 2,563 | 2,997 | 3,434 | 3,810 | 4,065 |
| 12.250 | 4,224 | 4,338 | 4,418 | 4,467 | 4,485 |
| 12.500 | 4,474 | 4,438 | 4,383 | 4,315 | 4,243 |
| 12.750 | 4,167 | 4,088 | 4,005 | 3,920 | 3,831 |
| 13.000 | 3,739 | 3,644 | 3,549 | 3,454 | 3,363 |
| 13.250 | 3,274 | 3,188 | 3,105 | 3,024 | 2,946 |
| 13.500 | 2,870 | 2,796 | 2,724 | 2,655 | 2,587 |
| 13.750 | 2,522 | 2,458 | 2,396 | 2,336 | 2,277 |
| 14.000 | 2,220 | 2,164 | 2,110 | 2,058 | 2,007 |
| 14.250 | 1,958 | 1,911 | 1,865 | 1,820 | 1,777 |
| 14.500 | 1,736 | 1,695 | 1,656 | 1,618 | 1,581 |
| 14.750 | 1,545 | 1,511 | 1,477 | 1,444 | 1,413 |
| 15.000 | 1,382 | 1,352 | 1,322 | 1,294 | 1,266 |
| 15.250 | 1,239 | 1,213 | 1,187 | 1,163 | 1,138 |
| 15.500 | 1,114 | 1,091 | 1,069 | 1,047 | 1,025 |
| 15.750 | 1,004 | 983 | 963 | 943 | 924 |
| 16.000 | 905 | 886 | 868 | 851 | 834 |
| 16.250 | 817 | 801 | 785 | 770 | 755 |
| 16.500 | 741 | 727 | 714 | 701 | 688 |
| 16.750 | 676 | 663 | 652 | 640 | 629 |
| 17.000 | 618 | 608 | 597 | 587 | 577 |
| 17.250 | 568 | 558 | 549 | 540 | 531 |
| 17.500 | 523 | 514 | 506 | 498 | 490 |
| 17.750 | 482 | 474 | 467 | 459 | 452 |
| 18.000 | 445 | 438 | 431 | 425 | 418 |
| 18.250 | 412 | 406 | 400 | 394 | 389 |
| 18.500 | 384 | 378 | 373 | 369 | 364 |
| 18.750 | 359 | 355 | 351 | 347 | 342 |
| 19.000 | 339 | 335 | 331 | 327 | 324 |
| 19.250 | 320 | 317 | 314 | 311 | 307 |
| 19.500 | 304 | 301 | 299 | 296 | 293 |
| 19.750 | 290 | 288 | 285 | 282 | 280 |
| 20.000 | 278 | 275 | 273 | 271 | 268 |

Stormwater Hydrologic Calculations

Subsection: Time vs. Volume

Return Event: 100 years

Label: Permeable Asphalt

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours

Time on left represents time for first value in each row.

| Time (hours) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) | Volume (ft ³) |
|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 20.250 | 266 | 264 | 262 | 260 | 258 |
| 20.500 | 256 | 254 | 252 | 250 | 249 |
| 20.750 | 247 | 245 | 243 | 242 | 240 |
| 21.000 | 238 | 237 | 235 | 234 | 232 |
| 21.250 | 231 | 229 | 228 | 226 | 225 |
| 21.500 | 224 | 222 | 221 | 220 | 218 |
| 21.750 | 217 | 216 | 214 | 213 | 212 |
| 22.000 | 211 | 210 | 208 | 207 | 206 |
| 22.250 | 205 | 204 | 202 | 201 | 200 |
| 22.500 | 199 | 198 | 197 | 196 | 195 |
| 22.750 | 193 | 192 | 191 | 190 | 189 |
| 23.000 | 188 | 187 | 186 | 185 | 184 |
| 23.250 | 183 | 182 | 181 | 180 | 179 |
| 23.500 | 178 | 177 | 176 | 175 | 173 |
| 23.750 | 172 | 171 | 170 | 169 | 168 |
| 24.000 | 167 | (N/A) | (N/A) | (N/A) | (N/A) |

Stormwater Hydrologic Calculations

Subsection: Elevation-Area Volume Curve

Return Event: 1 years

Label: DB-1C-2B

Storm Event: 1 year

Scenario: Post-Development 1 year

| Elevation (ft) | Planimeter (ft ²) | Area (ft ²) | A1+A2+sqr (A1*A2) (ft ²) | Volume (ft ³) | Volume (Total) (ft ³) |
|-------------------|----------------------------------|----------------------------|--|------------------------------|--------------------------------------|
| 620.00 | 0.0 | 12,133 | 0 | 0 | 0 |
| 622.00 | 0.0 | 15,988 | 42,049 | 28,033 | 28,033 |

Stormwater Hydrologic Calculations

Subsection: Elevation-Area Volume Curve

Return Event: 1 years

Label: IB-1C-2B

Storm Event: 1 year

Scenario: Post-Development 1 year

| Elevation (ft) | Planimeter (ft ²) | Area (ft ²) | A1+A2+sq (A1*A2) (ft ²) | Volume (ft ³) | Volume (Total) (ft ³) |
|-------------------|----------------------------------|----------------------------|---|------------------------------|--------------------------------------|
| 618.00 | 0.0 | 7,148 | 0 | 0 | 0 |
| 620.00 | 0.0 | 13,230 | 30,103 | 20,068 | 20,068 |
| 622.00 | 0.0 | 16,253 | 44,147 | 29,431 | 49,500 |

Stormwater Hydrologic Calculations

Subsection: Elevation vs. Volume Curve

Label: Permeable Asphalt

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Elevation-Volume

| Pond Elevation (ft) | Pond Volume (ft ³) |
|------------------------|-----------------------------------|
| 634.32 | 0 |
| 635.32 | 7,198 |
| 636.00 | 19,434 |

Stormwater Hydrologic Calculations

Subsection: Multiple Outfall Rating Curves

Label: DB-1C-2B (IN)

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Total Pond Outflow Curve for Multiple Outfalls

| Headwater Elevation (ft) | Outfall: DB -OCS-R (ft ³ /s) | Outfall: DB -OCS-L (ft ³ /s) | Total Flow (ft ³ /s) |
|--------------------------|---|---|---------------------------------|
| 620.00 | 0.00 | 0.00 | 0.00 |
| 620.05 | 0.10 | 0.10 | 0.20 |
| 620.10 | 0.28 | 0.28 | 0.57 |
| 620.15 | 0.52 | 0.52 | 1.05 |
| 620.20 | 0.81 | 0.80 | 1.61 |
| 620.25 | 1.13 | 1.13 | 2.25 |
| 620.30 | 1.48 | 1.48 | 2.96 |
| 620.35 | 1.86 | 1.86 | 3.73 |
| 620.40 | 2.28 | 2.28 | 4.55 |
| 620.45 | 2.72 | 2.72 | 5.43 |
| 620.50 | 3.18 | 3.18 | 6.37 |
| 620.55 | 3.67 | 3.67 | 7.34 |
| 620.60 | 4.18 | 4.18 | 8.36 |
| 620.65 | 4.72 | 4.72 | 9.44 |
| 620.70 | 5.27 | 5.27 | 10.54 |
| 620.75 | 5.84 | 5.85 | 11.69 |
| 620.80 | 6.44 | 6.44 | 12.88 |
| 620.85 | 7.05 | 7.05 | 14.10 |
| 620.90 | 7.68 | 7.68 | 15.36 |
| 620.95 | 8.33 | 8.33 | 16.66 |
| 621.00 | 9.00 | 9.00 | 18.00 |
| 621.05 | 9.69 | 9.69 | 19.38 |
| 621.10 | 10.38 | 10.38 | 20.76 |
| 621.15 | 11.10 | 11.11 | 22.21 |
| 621.20 | 11.83 | 11.82 | 23.65 |
| 621.25 | 12.58 | 12.58 | 25.15 |
| 621.30 | 13.34 | 13.33 | 26.67 |
| 621.35 | 13.97 | 14.11 | 28.08 |
| 621.40 | 14.34 | 14.91 | 29.25 |
| 621.45 | 14.65 | 15.72 | 30.37 |
| 621.50 | 14.93 | 16.53 | 31.45 |
| 621.55 | 15.32 | 17.91 | 33.23 |
| 621.60 | 15.74 | 19.74 | 35.48 |
| 621.65 | 16.14 | 21.86 | 38.00 |
| 621.70 | 16.50 | 24.25 | 40.74 |
| 621.75 | 16.80 | 26.83 | 43.64 |
| 621.80 | 17.06 | 29.58 | 46.63 |
| 621.85 | 17.26 | 31.57 | 48.84 |
| 621.90 | 17.42 | 33.20 | 50.62 |
| 621.95 | 17.55 | 34.58 | 52.13 |
| 622.00 | 17.65 | 35.77 | 53.42 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Detention Basin OCS L
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.00 | 0.00 | (N/A) | 0.00 |
| 620.05 | 0.10 | (N/A) | 0.00 |
| 620.10 | 0.28 | (N/A) | 0.00 |
| 620.15 | 0.52 | (N/A) | 0.00 |
| 620.20 | 0.80 | (N/A) | 0.00 |
| 620.25 | 1.13 | (N/A) | 0.00 |
| 620.30 | 1.48 | (N/A) | 0.00 |
| 620.35 | 1.86 | (N/A) | 0.00 |
| 620.40 | 2.28 | (N/A) | 0.00 |
| 620.45 | 2.72 | (N/A) | 0.00 |
| 620.50 | 3.18 | (N/A) | 0.00 |
| 620.55 | 3.67 | (N/A) | 0.00 |
| 620.60 | 4.18 | (N/A) | 0.00 |
| 620.65 | 4.72 | (N/A) | 0.00 |
| 620.70 | 5.27 | (N/A) | 0.00 |
| 620.75 | 5.85 | (N/A) | 0.00 |
| 620.80 | 6.44 | (N/A) | 0.00 |
| 620.85 | 7.05 | (N/A) | 0.00 |
| 620.90 | 7.68 | (N/A) | 0.00 |
| 620.95 | 8.33 | (N/A) | 0.00 |
| 621.00 | 9.00 | (N/A) | 0.00 |
| 621.05 | 9.69 | (N/A) | 0.00 |
| 621.10 | 10.38 | (N/A) | 0.00 |
| 621.15 | 11.11 | (N/A) | 0.00 |
| 621.20 | 11.82 | (N/A) | 0.00 |
| 621.25 | 12.58 | (N/A) | 0.00 |
| 621.30 | 13.33 | (N/A) | 0.00 |
| 621.35 | 14.11 | (N/A) | 0.00 |
| 621.40 | 14.91 | (N/A) | 0.00 |
| 621.45 | 15.72 | (N/A) | 0.00 |
| 621.50 | 16.53 | (N/A) | 0.00 |
| 621.55 | 17.91 | (N/A) | 0.00 |
| 621.60 | 19.74 | (N/A) | 0.00 |
| 621.65 | 21.86 | (N/A) | 0.00 |
| 621.70 | 24.25 | (N/A) | 0.00 |
| 621.75 | 26.83 | (N/A) | 0.00 |
| 621.80 | 29.58 | (N/A) | 0.00 |
| 621.85 | 31.57 | (N/A) | 0.00 |
| 621.90 | 33.20 | (N/A) | 0.00 |
| 621.95 | 34.58 | (N/A) | 0.00 |
| 622.00 | 35.77 | (N/A) | 0.00 |

Contributing Structures

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Detention Basin OCS L
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|--|
| (no Q: Riser - 1, Weir - 1, Culvert - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |
| Weir - 1, Culvert - 1 (no Q: Riser - 1) |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Detention Basin OCS L
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|---|
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Detention Basin OCS R
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.00 | 0.00 | (N/A) | 0.00 |
| 620.05 | 0.10 | (N/A) | 0.00 |
| 620.10 | 0.28 | (N/A) | 0.00 |
| 620.15 | 0.52 | (N/A) | 0.00 |
| 620.20 | 0.81 | (N/A) | 0.00 |
| 620.25 | 1.13 | (N/A) | 0.00 |
| 620.30 | 1.48 | (N/A) | 0.00 |
| 620.35 | 1.86 | (N/A) | 0.00 |
| 620.40 | 2.28 | (N/A) | 0.00 |
| 620.45 | 2.72 | (N/A) | 0.00 |
| 620.50 | 3.18 | (N/A) | 0.00 |
| 620.55 | 3.67 | (N/A) | 0.00 |
| 620.60 | 4.18 | (N/A) | 0.00 |
| 620.65 | 4.72 | (N/A) | 0.00 |
| 620.70 | 5.27 | (N/A) | 0.00 |
| 620.75 | 5.84 | (N/A) | 0.00 |
| 620.80 | 6.44 | (N/A) | 0.00 |
| 620.85 | 7.05 | (N/A) | 0.00 |
| 620.90 | 7.68 | (N/A) | 0.00 |
| 620.95 | 8.33 | (N/A) | 0.00 |
| 621.00 | 9.00 | (N/A) | 0.00 |
| 621.05 | 9.69 | (N/A) | 0.00 |
| 621.10 | 10.38 | (N/A) | 0.00 |
| 621.15 | 11.10 | (N/A) | 0.00 |
| 621.20 | 11.83 | (N/A) | 0.00 |
| 621.25 | 12.58 | (N/A) | 0.00 |
| 621.30 | 13.34 | (N/A) | 0.00 |
| 621.35 | 13.97 | (N/A) | 0.00 |
| 621.40 | 14.34 | (N/A) | 0.00 |
| 621.45 | 14.65 | (N/A) | 0.00 |
| 621.50 | 14.93 | (N/A) | 0.00 |
| 621.55 | 15.32 | (N/A) | 0.00 |
| 621.60 | 15.74 | (N/A) | 0.00 |
| 621.65 | 16.14 | (N/A) | 0.00 |
| 621.70 | 16.50 | (N/A) | 0.00 |
| 621.75 | 16.80 | (N/A) | 0.00 |
| 621.80 | 17.06 | (N/A) | 0.00 |
| 621.85 | 17.26 | (N/A) | 0.00 |
| 621.90 | 17.42 | (N/A) | 0.00 |
| 621.95 | 17.55 | (N/A) | 0.00 |
| 622.00 | 17.65 | (N/A) | 0.00 |

Contributing Structures

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Detention Basin OCS R
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Contributing Structures

- (no Q: Riser - 1, Weir - 1, Culvert - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)
- Weir - 1, Culvert - 1 (no Q: Riser - 1)

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Detention Basin OCS R
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|---|
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Weir - 1,Culvert - 1 (no Q: Riser - 1) |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Weir - 1,Culvert - 1 |
| Riser - 1,Culvert - 1 (no Q: Weir - 1) |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | 0.00 | 620.00 | 0.00 |
| 618.05 | 0.00 | 620.00 | 0.00 |
| 618.10 | 0.00 | 620.00 | 0.00 |
| 618.15 | 0.00 | 620.00 | 0.00 |
| 618.20 | 0.00 | 620.00 | 0.00 |
| 618.25 | 0.00 | 620.00 | 0.00 |
| 618.30 | 0.00 | 620.00 | 0.00 |
| 618.35 | 0.00 | 620.00 | 0.00 |
| 618.40 | 0.00 | 620.00 | 0.00 |
| 618.45 | 0.00 | 620.00 | 0.00 |
| 618.50 | 0.00 | 620.00 | 0.00 |
| 618.55 | 0.00 | 620.00 | 0.00 |
| 618.60 | 0.00 | 620.00 | 0.00 |
| 618.65 | 0.00 | 620.00 | 0.00 |
| 618.70 | 0.00 | 620.00 | 0.00 |
| 618.75 | 0.00 | 620.00 | 0.00 |
| 618.80 | 0.00 | 620.00 | 0.00 |
| 618.85 | 0.00 | 620.00 | 0.00 |
| 618.90 | 0.00 | 620.00 | 0.00 |
| 618.95 | 0.00 | 620.00 | 0.00 |
| 619.00 | 0.00 | 620.00 | 0.00 |
| 619.05 | 0.00 | 620.00 | 0.00 |
| 619.10 | 0.00 | 620.00 | 0.00 |
| 619.15 | 0.00 | 620.00 | 0.00 |
| 619.20 | 0.00 | 620.00 | 0.00 |
| 619.25 | 0.00 | 620.00 | 0.00 |
| 619.30 | 0.00 | 620.00 | 0.00 |
| 619.35 | 0.00 | 620.00 | 0.00 |
| 619.40 | 0.00 | 620.00 | 0.00 |
| 619.45 | 0.00 | 620.00 | 0.00 |
| 619.50 | 0.00 | 620.00 | 0.00 |
| 619.55 | 0.00 | 620.00 | 0.00 |
| 619.60 | 0.00 | 620.00 | 0.00 |
| 619.65 | 0.00 | 620.00 | 0.00 |
| 619.70 | 0.00 | 620.00 | 0.00 |
| 619.75 | 0.00 | 620.00 | 0.00 |
| 619.80 | 0.00 | 620.00 | 0.00 |
| 619.85 | 0.00 | 620.00 | 0.00 |
| 619.90 | 0.00 | 620.00 | 0.00 |
| 619.95 | 0.00 | 620.00 | 0.00 |
| 620.00 | 0.00 | 620.00 | 0.00 |
| 620.05 | 0.00 | 620.00 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | 0.91 | 620.00 | 0.00 |
| 620.15 | 2.56 | 620.00 | 0.00 |
| 620.20 | 4.71 | 620.00 | 0.00 |
| 620.25 | 7.24 | 620.00 | 0.00 |
| 620.30 | 10.13 | 620.00 | 0.00 |
| 620.35 | 13.31 | 620.00 | 0.00 |
| 620.40 | 16.77 | 620.00 | 0.00 |
| 620.45 | 20.49 | 620.00 | 0.00 |
| 620.50 | 24.45 | 620.00 | 0.00 |
| 620.55 | 28.64 | 620.00 | 0.00 |
| 620.60 | 33.04 | 620.00 | 0.00 |
| 620.65 | 37.65 | 620.00 | 0.00 |
| 620.70 | 42.45 | 620.00 | 0.00 |
| 620.75 | 47.44 | 620.00 | 0.00 |
| 620.80 | 52.61 | 620.00 | 0.00 |
| 620.85 | 57.96 | 620.00 | 0.00 |
| 620.90 | 63.48 | 620.00 | 0.00 |
| 620.95 | 69.16 | 620.00 | 0.00 |
| 621.00 | 75.00 | 620.00 | 0.00 |
| 621.05 | 81.00 | 620.00 | 0.00 |
| 621.10 | 87.15 | 620.00 | 0.00 |
| 621.15 | 93.45 | 620.00 | 0.00 |
| 621.20 | 99.89 | 620.00 | 0.00 |
| 621.25 | 106.48 | 620.00 | 0.00 |
| 621.30 | 113.20 | 620.00 | 0.00 |
| 621.35 | 120.06 | 620.00 | 0.00 |
| 621.40 | 127.05 | 620.00 | 0.00 |
| 621.45 | 134.18 | 620.00 | 0.00 |
| 621.50 | 141.43 | 620.00 | 0.00 |
| 621.55 | 148.81 | 620.00 | 0.00 |
| 621.60 | 156.31 | 620.00 | 0.00 |
| 621.65 | 163.93 | 620.00 | 0.00 |
| 621.70 | 171.68 | 620.00 | 0.00 |
| 621.75 | 179.54 | 620.00 | 0.00 |
| 621.80 | 187.52 | 620.00 | 0.00 |
| 621.85 | 195.61 | 620.00 | 0.00 |
| 621.90 | 203.82 | 620.00 | 0.00 |
| 621.95 | 212.14 | 620.00 | 0.00 |
| 622.00 | 220.57 | 620.00 | 0.00 |

Contributing Structures

| |
|-------------------|
| None Contributing |
| None Contributing |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | 0.00 | 620.05 | 0.00 |
| 618.05 | 0.00 | 620.05 | 0.00 |
| 618.10 | 0.00 | 620.05 | 0.00 |
| 618.15 | 0.00 | 620.05 | 0.00 |
| 618.20 | 0.00 | 620.05 | 0.00 |
| 618.25 | 0.00 | 620.05 | 0.00 |
| 618.30 | 0.00 | 620.05 | 0.00 |
| 618.35 | 0.00 | 620.05 | 0.00 |
| 618.40 | 0.00 | 620.05 | 0.00 |
| 618.45 | 0.00 | 620.05 | 0.00 |
| 618.50 | 0.00 | 620.05 | 0.00 |
| 618.55 | 0.00 | 620.05 | 0.00 |
| 618.60 | 0.00 | 620.05 | 0.00 |
| 618.65 | 0.00 | 620.05 | 0.00 |
| 618.70 | 0.00 | 620.05 | 0.00 |
| 618.75 | 0.00 | 620.05 | 0.00 |
| 618.80 | 0.00 | 620.05 | 0.00 |
| 618.85 | 0.00 | 620.05 | 0.00 |
| 618.90 | 0.00 | 620.05 | 0.00 |
| 618.95 | 0.00 | 620.05 | 0.00 |
| 619.00 | 0.00 | 620.05 | 0.00 |
| 619.05 | 0.00 | 620.05 | 0.00 |
| 619.10 | 0.00 | 620.05 | 0.00 |
| 619.15 | 0.00 | 620.05 | 0.00 |
| 619.20 | 0.00 | 620.05 | 0.00 |
| 619.25 | 0.00 | 620.05 | 0.00 |
| 619.30 | 0.00 | 620.05 | 0.00 |
| 619.35 | 0.00 | 620.05 | 0.00 |
| 619.40 | 0.00 | 620.05 | 0.00 |
| 619.45 | 0.00 | 620.05 | 0.00 |
| 619.50 | 0.00 | 620.05 | 0.00 |
| 619.55 | 0.00 | 620.05 | 0.00 |
| 619.60 | 0.00 | 620.05 | 0.00 |
| 619.65 | 0.00 | 620.05 | 0.00 |
| 619.70 | 0.00 | 620.05 | 0.00 |
| 619.75 | 0.00 | 620.05 | 0.00 |
| 619.80 | 0.00 | 620.05 | 0.00 |
| 619.85 | 0.00 | 620.05 | 0.00 |
| 619.90 | 0.00 | 620.05 | 0.00 |
| 619.95 | 0.00 | 620.05 | 0.00 |
| 620.00 | 0.00 | 620.05 | 0.00 |
| 620.05 | 0.00 | 620.05 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | 0.91 | 620.05 | 0.00 |
| 620.15 | 2.56 | 620.05 | 0.00 |
| 620.20 | 4.71 | 620.05 | 0.00 |
| 620.25 | 7.24 | 620.05 | 0.00 |
| 620.30 | 10.13 | 620.05 | 0.00 |
| 620.35 | 13.31 | 620.05 | 0.00 |
| 620.40 | 16.77 | 620.05 | 0.00 |
| 620.45 | 20.49 | 620.05 | 0.00 |
| 620.50 | 24.45 | 620.05 | 0.00 |
| 620.55 | 28.64 | 620.05 | 0.00 |
| 620.60 | 33.04 | 620.05 | 0.00 |
| 620.65 | 37.65 | 620.05 | 0.00 |
| 620.70 | 42.45 | 620.05 | 0.00 |
| 620.75 | 47.44 | 620.05 | 0.00 |
| 620.80 | 52.61 | 620.05 | 0.00 |
| 620.85 | 57.96 | 620.05 | 0.00 |
| 620.90 | 63.48 | 620.05 | 0.00 |
| 620.95 | 69.16 | 620.05 | 0.00 |
| 621.00 | 75.00 | 620.05 | 0.00 |
| 621.05 | 81.00 | 620.05 | 0.00 |
| 621.10 | 87.15 | 620.05 | 0.00 |
| 621.15 | 93.45 | 620.05 | 0.00 |
| 621.20 | 99.89 | 620.05 | 0.00 |
| 621.25 | 106.48 | 620.05 | 0.00 |
| 621.30 | 113.20 | 620.05 | 0.00 |
| 621.35 | 120.06 | 620.05 | 0.00 |
| 621.40 | 127.05 | 620.05 | 0.00 |
| 621.45 | 134.18 | 620.05 | 0.00 |
| 621.50 | 141.43 | 620.05 | 0.00 |
| 621.55 | 148.81 | 620.05 | 0.00 |
| 621.60 | 156.31 | 620.05 | 0.00 |
| 621.65 | 163.93 | 620.05 | 0.00 |
| 621.70 | 171.68 | 620.05 | 0.00 |
| 621.75 | 179.54 | 620.05 | 0.00 |
| 621.80 | 187.52 | 620.05 | 0.00 |
| 621.85 | 195.61 | 620.05 | 0.00 |
| 621.90 | 203.82 | 620.05 | 0.00 |
| 621.95 | 212.14 | 620.05 | 0.00 |
| 622.00 | 220.57 | 620.05 | 0.00 |

Contributing Structures

| |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -0.91 | 620.10 | 0.00 |
| 618.05 | -0.91 | 620.10 | 0.00 |
| 618.10 | -0.91 | 620.10 | 0.00 |
| 618.15 | -0.91 | 620.10 | 0.00 |
| 618.20 | -0.91 | 620.10 | 0.00 |
| 618.25 | -0.91 | 620.10 | 0.00 |
| 618.30 | -0.91 | 620.10 | 0.00 |
| 618.35 | -0.91 | 620.10 | 0.00 |
| 618.40 | -0.91 | 620.10 | 0.00 |
| 618.45 | -0.91 | 620.10 | 0.00 |
| 618.50 | -0.91 | 620.10 | 0.00 |
| 618.55 | -0.91 | 620.10 | 0.00 |
| 618.60 | -0.91 | 620.10 | 0.00 |
| 618.65 | -0.91 | 620.10 | 0.00 |
| 618.70 | -0.91 | 620.10 | 0.00 |
| 618.75 | -0.91 | 620.10 | 0.00 |
| 618.80 | -0.91 | 620.10 | 0.00 |
| 618.85 | -0.91 | 620.10 | 0.00 |
| 618.90 | -0.91 | 620.10 | 0.00 |
| 618.95 | -0.91 | 620.10 | 0.00 |
| 619.00 | -0.91 | 620.10 | 0.00 |
| 619.05 | -0.91 | 620.10 | 0.00 |
| 619.10 | -0.91 | 620.10 | 0.00 |
| 619.15 | -0.91 | 620.10 | 0.00 |
| 619.20 | -0.91 | 620.10 | 0.00 |
| 619.25 | -0.91 | 620.10 | 0.00 |
| 619.30 | -0.91 | 620.10 | 0.00 |
| 619.35 | -0.91 | 620.10 | 0.00 |
| 619.40 | -0.91 | 620.10 | 0.00 |
| 619.45 | -0.91 | 620.10 | 0.00 |
| 619.50 | -0.91 | 620.10 | 0.00 |
| 619.55 | -0.91 | 620.10 | 0.00 |
| 619.60 | -0.91 | 620.10 | 0.00 |
| 619.65 | -0.91 | 620.10 | 0.00 |
| 619.70 | -0.91 | 620.10 | 0.00 |
| 619.75 | -0.91 | 620.10 | 0.00 |
| 619.80 | -0.91 | 620.10 | 0.00 |
| 619.85 | -0.91 | 620.10 | 0.00 |
| 619.90 | -0.91 | 620.10 | 0.00 |
| 619.95 | -0.91 | 620.10 | 0.00 |
| 620.00 | -0.91 | 620.10 | 0.00 |
| 620.05 | -0.91 | 620.10 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | 0.00 | 620.10 | 0.00 |
| 620.15 | 2.17 | 620.10 | 0.00 |
| 620.20 | 4.33 | 620.10 | 0.00 |
| 620.25 | 6.88 | 620.10 | 0.00 |
| 620.30 | 9.77 | 620.10 | 0.00 |
| 620.35 | 12.95 | 620.10 | 0.00 |
| 620.40 | 16.42 | 620.10 | 0.00 |
| 620.45 | 20.14 | 620.10 | 0.00 |
| 620.50 | 24.10 | 620.10 | 0.00 |
| 620.55 | 28.29 | 620.10 | 0.00 |
| 620.60 | 32.69 | 620.10 | 0.00 |
| 620.65 | 37.29 | 620.10 | 0.00 |
| 620.70 | 42.10 | 620.10 | 0.00 |
| 620.75 | 47.09 | 620.10 | 0.00 |
| 620.80 | 52.26 | 620.10 | 0.00 |
| 620.85 | 57.61 | 620.10 | 0.00 |
| 620.90 | 63.13 | 620.10 | 0.00 |
| 620.95 | 68.81 | 620.10 | 0.00 |
| 621.00 | 74.65 | 620.10 | 0.00 |
| 621.05 | 80.65 | 620.10 | 0.00 |
| 621.10 | 86.80 | 620.10 | 0.00 |
| 621.15 | 93.10 | 620.10 | 0.00 |
| 621.20 | 99.54 | 620.10 | 0.00 |
| 621.25 | 106.13 | 620.10 | 0.00 |
| 621.30 | 112.85 | 620.10 | 0.00 |
| 621.35 | 119.71 | 620.10 | 0.00 |
| 621.40 | 126.70 | 620.10 | 0.00 |
| 621.45 | 133.83 | 620.10 | 0.00 |
| 621.50 | 141.08 | 620.10 | 0.00 |
| 621.55 | 148.46 | 620.10 | 0.00 |
| 621.60 | 155.96 | 620.10 | 0.00 |
| 621.65 | 163.58 | 620.10 | 0.00 |
| 621.70 | 171.33 | 620.10 | 0.00 |
| 621.75 | 179.19 | 620.10 | 0.00 |
| 621.80 | 187.17 | 620.10 | 0.00 |
| 621.85 | 195.26 | 620.10 | 0.00 |
| 621.90 | 203.47 | 620.10 | 0.00 |
| 621.95 | 211.79 | 620.10 | 0.00 |
| 622.00 | 220.22 | 620.10 | 0.00 |

Contributing Structures

| |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -2.56 | 620.15 | 0.00 |
| 618.05 | -2.56 | 620.15 | 0.00 |
| 618.10 | -2.56 | 620.15 | 0.00 |
| 618.15 | -2.56 | 620.15 | 0.00 |
| 618.20 | -2.56 | 620.15 | 0.00 |
| 618.25 | -2.56 | 620.15 | 0.00 |
| 618.30 | -2.56 | 620.15 | 0.00 |
| 618.35 | -2.56 | 620.15 | 0.00 |
| 618.40 | -2.56 | 620.15 | 0.00 |
| 618.45 | -2.56 | 620.15 | 0.00 |
| 618.50 | -2.56 | 620.15 | 0.00 |
| 618.55 | -2.56 | 620.15 | 0.00 |
| 618.60 | -2.56 | 620.15 | 0.00 |
| 618.65 | -2.56 | 620.15 | 0.00 |
| 618.70 | -2.56 | 620.15 | 0.00 |
| 618.75 | -2.56 | 620.15 | 0.00 |
| 618.80 | -2.56 | 620.15 | 0.00 |
| 618.85 | -2.56 | 620.15 | 0.00 |
| 618.90 | -2.56 | 620.15 | 0.00 |
| 618.95 | -2.56 | 620.15 | 0.00 |
| 619.00 | -2.56 | 620.15 | 0.00 |
| 619.05 | -2.56 | 620.15 | 0.00 |
| 619.10 | -2.56 | 620.15 | 0.00 |
| 619.15 | -2.56 | 620.15 | 0.00 |
| 619.20 | -2.56 | 620.15 | 0.00 |
| 619.25 | -2.56 | 620.15 | 0.00 |
| 619.30 | -2.56 | 620.15 | 0.00 |
| 619.35 | -2.56 | 620.15 | 0.00 |
| 619.40 | -2.56 | 620.15 | 0.00 |
| 619.45 | -2.56 | 620.15 | 0.00 |
| 619.50 | -2.56 | 620.15 | 0.00 |
| 619.55 | -2.56 | 620.15 | 0.00 |
| 619.60 | -2.56 | 620.15 | 0.00 |
| 619.65 | -2.56 | 620.15 | 0.00 |
| 619.70 | -2.56 | 620.15 | 0.00 |
| 619.75 | -2.56 | 620.15 | 0.00 |
| 619.80 | -2.56 | 620.15 | 0.00 |
| 619.85 | -2.56 | 620.15 | 0.00 |
| 619.90 | -2.56 | 620.15 | 0.00 |
| 619.95 | -2.56 | 620.15 | 0.00 |
| 620.00 | -2.56 | 620.15 | 0.00 |
| 620.05 | -2.56 | 620.15 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -2.17 | 620.15 | 0.00 |
| 620.15 | 0.00 | 620.15 | 0.00 |
| 620.20 | 3.48 | 620.15 | 0.00 |
| 620.25 | 6.12 | 620.15 | 0.00 |
| 620.30 | 9.05 | 620.15 | 0.00 |
| 620.35 | 12.26 | 620.15 | 0.00 |
| 620.40 | 15.74 | 620.15 | 0.00 |
| 620.45 | 19.46 | 620.15 | 0.00 |
| 620.50 | 23.43 | 620.15 | 0.00 |
| 620.55 | 27.62 | 620.15 | 0.00 |
| 620.60 | 32.03 | 620.15 | 0.00 |
| 620.65 | 36.64 | 620.15 | 0.00 |
| 620.70 | 41.44 | 620.15 | 0.00 |
| 620.75 | 46.44 | 620.15 | 0.00 |
| 620.80 | 51.61 | 620.15 | 0.00 |
| 620.85 | 56.96 | 620.15 | 0.00 |
| 620.90 | 62.48 | 620.15 | 0.00 |
| 620.95 | 68.16 | 620.15 | 0.00 |
| 621.00 | 74.00 | 620.15 | 0.00 |
| 621.05 | 80.00 | 620.15 | 0.00 |
| 621.10 | 86.16 | 620.15 | 0.00 |
| 621.15 | 92.45 | 620.15 | 0.00 |
| 621.20 | 98.90 | 620.15 | 0.00 |
| 621.25 | 105.48 | 620.15 | 0.00 |
| 621.30 | 112.21 | 620.15 | 0.00 |
| 621.35 | 119.07 | 620.15 | 0.00 |
| 621.40 | 126.06 | 620.15 | 0.00 |
| 621.45 | 133.18 | 620.15 | 0.00 |
| 621.50 | 140.44 | 620.15 | 0.00 |
| 621.55 | 147.82 | 620.15 | 0.00 |
| 621.60 | 155.32 | 620.15 | 0.00 |
| 621.65 | 162.94 | 620.15 | 0.00 |
| 621.70 | 170.69 | 620.15 | 0.00 |
| 621.75 | 178.55 | 620.15 | 0.00 |
| 621.80 | 186.53 | 620.15 | 0.00 |
| 621.85 | 194.62 | 620.15 | 0.00 |
| 621.90 | 202.83 | 620.15 | 0.00 |
| 621.95 | 211.15 | 620.15 | 0.00 |
| 622.00 | 219.58 | 620.15 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -4.71 | 620.20 | 0.00 |
| 618.05 | -4.71 | 620.20 | 0.00 |
| 618.10 | -4.71 | 620.20 | 0.00 |
| 618.15 | -4.71 | 620.20 | 0.00 |
| 618.20 | -4.71 | 620.20 | 0.00 |
| 618.25 | -4.71 | 620.20 | 0.00 |
| 618.30 | -4.71 | 620.20 | 0.00 |
| 618.35 | -4.71 | 620.20 | 0.00 |
| 618.40 | -4.71 | 620.20 | 0.00 |
| 618.45 | -4.71 | 620.20 | 0.00 |
| 618.50 | -4.71 | 620.20 | 0.00 |
| 618.55 | -4.71 | 620.20 | 0.00 |
| 618.60 | -4.71 | 620.20 | 0.00 |
| 618.65 | -4.71 | 620.20 | 0.00 |
| 618.70 | -4.71 | 620.20 | 0.00 |
| 618.75 | -4.71 | 620.20 | 0.00 |
| 618.80 | -4.71 | 620.20 | 0.00 |
| 618.85 | -4.71 | 620.20 | 0.00 |
| 618.90 | -4.71 | 620.20 | 0.00 |
| 618.95 | -4.71 | 620.20 | 0.00 |
| 619.00 | -4.71 | 620.20 | 0.00 |
| 619.05 | -4.71 | 620.20 | 0.00 |
| 619.10 | -4.71 | 620.20 | 0.00 |
| 619.15 | -4.71 | 620.20 | 0.00 |
| 619.20 | -4.71 | 620.20 | 0.00 |
| 619.25 | -4.71 | 620.20 | 0.00 |
| 619.30 | -4.71 | 620.20 | 0.00 |
| 619.35 | -4.71 | 620.20 | 0.00 |
| 619.40 | -4.71 | 620.20 | 0.00 |
| 619.45 | -4.71 | 620.20 | 0.00 |
| 619.50 | -4.71 | 620.20 | 0.00 |
| 619.55 | -4.71 | 620.20 | 0.00 |
| 619.60 | -4.71 | 620.20 | 0.00 |
| 619.65 | -4.71 | 620.20 | 0.00 |
| 619.70 | -4.71 | 620.20 | 0.00 |
| 619.75 | -4.71 | 620.20 | 0.00 |
| 619.80 | -4.71 | 620.20 | 0.00 |
| 619.85 | -4.71 | 620.20 | 0.00 |
| 619.90 | -4.71 | 620.20 | 0.00 |
| 619.95 | -4.71 | 620.20 | 0.00 |
| 620.00 | -4.71 | 620.20 | 0.00 |
| 620.05 | -4.71 | 620.20 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -4.33 | 620.20 | 0.00 |
| 620.15 | -3.48 | 620.20 | 0.00 |
| 620.20 | 0.00 | 620.20 | 0.00 |
| 620.25 | 4.84 | 620.20 | 0.00 |
| 620.30 | 7.96 | 620.20 | 0.00 |
| 620.35 | 11.25 | 620.20 | 0.00 |
| 620.40 | 14.78 | 620.20 | 0.00 |
| 620.45 | 18.53 | 620.20 | 0.00 |
| 620.50 | 22.52 | 620.20 | 0.00 |
| 620.55 | 26.73 | 620.20 | 0.00 |
| 620.60 | 31.14 | 620.20 | 0.00 |
| 620.65 | 35.76 | 620.20 | 0.00 |
| 620.70 | 40.57 | 620.20 | 0.00 |
| 620.75 | 45.57 | 620.20 | 0.00 |
| 620.80 | 50.75 | 620.20 | 0.00 |
| 620.85 | 56.10 | 620.20 | 0.00 |
| 620.90 | 61.62 | 620.20 | 0.00 |
| 620.95 | 67.31 | 620.20 | 0.00 |
| 621.00 | 73.15 | 620.20 | 0.00 |
| 621.05 | 79.15 | 620.20 | 0.00 |
| 621.10 | 85.31 | 620.20 | 0.00 |
| 621.15 | 91.61 | 620.20 | 0.00 |
| 621.20 | 98.05 | 620.20 | 0.00 |
| 621.25 | 104.64 | 620.20 | 0.00 |
| 621.30 | 111.37 | 620.20 | 0.00 |
| 621.35 | 118.23 | 620.20 | 0.00 |
| 621.40 | 125.22 | 620.20 | 0.00 |
| 621.45 | 132.35 | 620.20 | 0.00 |
| 621.50 | 139.60 | 620.20 | 0.00 |
| 621.55 | 146.98 | 620.20 | 0.00 |
| 621.60 | 154.48 | 620.20 | 0.00 |
| 621.65 | 162.10 | 620.20 | 0.00 |
| 621.70 | 169.85 | 620.20 | 0.00 |
| 621.75 | 177.71 | 620.20 | 0.00 |
| 621.80 | 185.69 | 620.20 | 0.00 |
| 621.85 | 193.79 | 620.20 | 0.00 |
| 621.90 | 201.99 | 620.20 | 0.00 |
| 621.95 | 210.31 | 620.20 | 0.00 |
| 622.00 | 218.74 | 620.20 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -7.24 | 620.25 | 0.00 |
| 618.05 | -7.24 | 620.25 | 0.00 |
| 618.10 | -7.24 | 620.25 | 0.00 |
| 618.15 | -7.24 | 620.25 | 0.00 |
| 618.20 | -7.24 | 620.25 | 0.00 |
| 618.25 | -7.24 | 620.25 | 0.00 |
| 618.30 | -7.24 | 620.25 | 0.00 |
| 618.35 | -7.24 | 620.25 | 0.00 |
| 618.40 | -7.24 | 620.25 | 0.00 |
| 618.45 | -7.24 | 620.25 | 0.00 |
| 618.50 | -7.24 | 620.25 | 0.00 |
| 618.55 | -7.24 | 620.25 | 0.00 |
| 618.60 | -7.24 | 620.25 | 0.00 |
| 618.65 | -7.24 | 620.25 | 0.00 |
| 618.70 | -7.24 | 620.25 | 0.00 |
| 618.75 | -7.24 | 620.25 | 0.00 |
| 618.80 | -7.24 | 620.25 | 0.00 |
| 618.85 | -7.24 | 620.25 | 0.00 |
| 618.90 | -7.24 | 620.25 | 0.00 |
| 618.95 | -7.24 | 620.25 | 0.00 |
| 619.00 | -7.24 | 620.25 | 0.00 |
| 619.05 | -7.24 | 620.25 | 0.00 |
| 619.10 | -7.24 | 620.25 | 0.00 |
| 619.15 | -7.24 | 620.25 | 0.00 |
| 619.20 | -7.24 | 620.25 | 0.00 |
| 619.25 | -7.24 | 620.25 | 0.00 |
| 619.30 | -7.24 | 620.25 | 0.00 |
| 619.35 | -7.24 | 620.25 | 0.00 |
| 619.40 | -7.24 | 620.25 | 0.00 |
| 619.45 | -7.24 | 620.25 | 0.00 |
| 619.50 | -7.24 | 620.25 | 0.00 |
| 619.55 | -7.24 | 620.25 | 0.00 |
| 619.60 | -7.24 | 620.25 | 0.00 |
| 619.65 | -7.24 | 620.25 | 0.00 |
| 619.70 | -7.24 | 620.25 | 0.00 |
| 619.75 | -7.24 | 620.25 | 0.00 |
| 619.80 | -7.24 | 620.25 | 0.00 |
| 619.85 | -7.24 | 620.25 | 0.00 |
| 619.90 | -7.24 | 620.25 | 0.00 |
| 619.95 | -7.24 | 620.25 | 0.00 |
| 620.00 | -7.24 | 620.25 | 0.00 |
| 620.05 | -7.24 | 620.25 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -6.88 | 620.25 | 0.00 |
| 620.15 | -6.12 | 620.25 | 0.00 |
| 620.20 | -4.84 | 620.25 | 0.00 |
| 620.25 | 0.00 | 620.25 | 0.00 |
| 620.30 | 6.24 | 620.25 | 0.00 |
| 620.35 | 9.83 | 620.25 | 0.00 |
| 620.40 | 13.49 | 620.25 | 0.00 |
| 620.45 | 17.32 | 620.25 | 0.00 |
| 620.50 | 21.36 | 620.25 | 0.00 |
| 620.55 | 25.60 | 620.25 | 0.00 |
| 620.60 | 30.04 | 620.25 | 0.00 |
| 620.65 | 34.67 | 620.25 | 0.00 |
| 620.70 | 39.50 | 620.25 | 0.00 |
| 620.75 | 44.51 | 620.25 | 0.00 |
| 620.80 | 49.69 | 620.25 | 0.00 |
| 620.85 | 55.05 | 620.25 | 0.00 |
| 620.90 | 60.58 | 620.25 | 0.00 |
| 620.95 | 66.27 | 620.25 | 0.00 |
| 621.00 | 72.12 | 620.25 | 0.00 |
| 621.05 | 78.13 | 620.25 | 0.00 |
| 621.10 | 84.29 | 620.25 | 0.00 |
| 621.15 | 90.59 | 620.25 | 0.00 |
| 621.20 | 97.04 | 620.25 | 0.00 |
| 621.25 | 103.63 | 620.25 | 0.00 |
| 621.30 | 110.35 | 620.25 | 0.00 |
| 621.35 | 117.22 | 620.25 | 0.00 |
| 621.40 | 124.21 | 620.25 | 0.00 |
| 621.45 | 131.34 | 620.25 | 0.00 |
| 621.50 | 138.59 | 620.25 | 0.00 |
| 621.55 | 145.97 | 620.25 | 0.00 |
| 621.60 | 153.48 | 620.25 | 0.00 |
| 621.65 | 161.10 | 620.25 | 0.00 |
| 621.70 | 168.85 | 620.25 | 0.00 |
| 621.75 | 176.71 | 620.25 | 0.00 |
| 621.80 | 184.69 | 620.25 | 0.00 |
| 621.85 | 192.79 | 620.25 | 0.00 |
| 621.90 | 201.00 | 620.25 | 0.00 |
| 621.95 | 209.32 | 620.25 | 0.00 |
| 622.00 | 217.75 | 620.25 | 0.00 |

Contributing Structures

| |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -10.13 | 620.30 | 0.00 |
| 618.05 | -10.13 | 620.30 | 0.00 |
| 618.10 | -10.13 | 620.30 | 0.00 |
| 618.15 | -10.13 | 620.30 | 0.00 |
| 618.20 | -10.13 | 620.30 | 0.00 |
| 618.25 | -10.13 | 620.30 | 0.00 |
| 618.30 | -10.13 | 620.30 | 0.00 |
| 618.35 | -10.13 | 620.30 | 0.00 |
| 618.40 | -10.13 | 620.30 | 0.00 |
| 618.45 | -10.13 | 620.30 | 0.00 |
| 618.50 | -10.13 | 620.30 | 0.00 |
| 618.55 | -10.13 | 620.30 | 0.00 |
| 618.60 | -10.13 | 620.30 | 0.00 |
| 618.65 | -10.13 | 620.30 | 0.00 |
| 618.70 | -10.13 | 620.30 | 0.00 |
| 618.75 | -10.13 | 620.30 | 0.00 |
| 618.80 | -10.13 | 620.30 | 0.00 |
| 618.85 | -10.13 | 620.30 | 0.00 |
| 618.90 | -10.13 | 620.30 | 0.00 |
| 618.95 | -10.13 | 620.30 | 0.00 |
| 619.00 | -10.13 | 620.30 | 0.00 |
| 619.05 | -10.13 | 620.30 | 0.00 |
| 619.10 | -10.13 | 620.30 | 0.00 |
| 619.15 | -10.13 | 620.30 | 0.00 |
| 619.20 | -10.13 | 620.30 | 0.00 |
| 619.25 | -10.13 | 620.30 | 0.00 |
| 619.30 | -10.13 | 620.30 | 0.00 |
| 619.35 | -10.13 | 620.30 | 0.00 |
| 619.40 | -10.13 | 620.30 | 0.00 |
| 619.45 | -10.13 | 620.30 | 0.00 |
| 619.50 | -10.13 | 620.30 | 0.00 |
| 619.55 | -10.13 | 620.30 | 0.00 |
| 619.60 | -10.13 | 620.30 | 0.00 |
| 619.65 | -10.13 | 620.30 | 0.00 |
| 619.70 | -10.13 | 620.30 | 0.00 |
| 619.75 | -10.13 | 620.30 | 0.00 |
| 619.80 | -10.13 | 620.30 | 0.00 |
| 619.85 | -10.13 | 620.30 | 0.00 |
| 619.90 | -10.13 | 620.30 | 0.00 |
| 619.95 | -10.13 | 620.30 | 0.00 |
| 620.00 | -10.13 | 620.30 | 0.00 |
| 620.05 | -10.13 | 620.30 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -9.77 | 620.30 | 0.00 |
| 620.15 | -9.05 | 620.30 | 0.00 |
| 620.20 | -7.96 | 620.30 | 0.00 |
| 620.25 | -6.24 | 620.30 | 0.00 |
| 620.30 | 0.00 | 620.30 | 0.00 |
| 620.35 | 7.67 | 620.30 | 0.00 |
| 620.40 | 11.74 | 620.30 | 0.00 |
| 620.45 | 15.76 | 620.30 | 0.00 |
| 620.50 | 19.90 | 620.30 | 0.00 |
| 620.55 | 24.21 | 620.30 | 0.00 |
| 620.60 | 28.70 | 620.30 | 0.00 |
| 620.65 | 33.37 | 620.30 | 0.00 |
| 620.70 | 38.22 | 620.30 | 0.00 |
| 620.75 | 43.25 | 620.30 | 0.00 |
| 620.80 | 48.45 | 620.30 | 0.00 |
| 620.85 | 53.83 | 620.30 | 0.00 |
| 620.90 | 59.37 | 620.30 | 0.00 |
| 620.95 | 65.07 | 620.30 | 0.00 |
| 621.00 | 70.93 | 620.30 | 0.00 |
| 621.05 | 76.94 | 620.30 | 0.00 |
| 621.10 | 83.10 | 620.30 | 0.00 |
| 621.15 | 89.41 | 620.30 | 0.00 |
| 621.20 | 95.87 | 620.30 | 0.00 |
| 621.25 | 102.46 | 620.30 | 0.00 |
| 621.30 | 109.19 | 620.30 | 0.00 |
| 621.35 | 116.06 | 620.30 | 0.00 |
| 621.40 | 123.06 | 620.30 | 0.00 |
| 621.45 | 130.18 | 620.30 | 0.00 |
| 621.50 | 137.44 | 620.30 | 0.00 |
| 621.55 | 144.82 | 620.30 | 0.00 |
| 621.60 | 152.33 | 620.30 | 0.00 |
| 621.65 | 159.96 | 620.30 | 0.00 |
| 621.70 | 167.71 | 620.30 | 0.00 |
| 621.75 | 175.57 | 620.30 | 0.00 |
| 621.80 | 183.55 | 620.30 | 0.00 |
| 621.85 | 191.65 | 620.30 | 0.00 |
| 621.90 | 199.86 | 620.30 | 0.00 |
| 621.95 | 208.18 | 620.30 | 0.00 |
| 622.00 | 216.61 | 620.30 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -13.31 | 620.35 | 0.00 |
| 618.05 | -13.31 | 620.35 | 0.00 |
| 618.10 | -13.31 | 620.35 | 0.00 |
| 618.15 | -13.31 | 620.35 | 0.00 |
| 618.20 | -13.31 | 620.35 | 0.00 |
| 618.25 | -13.31 | 620.35 | 0.00 |
| 618.30 | -13.31 | 620.35 | 0.00 |
| 618.35 | -13.31 | 620.35 | 0.00 |
| 618.40 | -13.31 | 620.35 | 0.00 |
| 618.45 | -13.31 | 620.35 | 0.00 |
| 618.50 | -13.31 | 620.35 | 0.00 |
| 618.55 | -13.31 | 620.35 | 0.00 |
| 618.60 | -13.31 | 620.35 | 0.00 |
| 618.65 | -13.31 | 620.35 | 0.00 |
| 618.70 | -13.31 | 620.35 | 0.00 |
| 618.75 | -13.31 | 620.35 | 0.00 |
| 618.80 | -13.31 | 620.35 | 0.00 |
| 618.85 | -13.31 | 620.35 | 0.00 |
| 618.90 | -13.31 | 620.35 | 0.00 |
| 618.95 | -13.31 | 620.35 | 0.00 |
| 619.00 | -13.31 | 620.35 | 0.00 |
| 619.05 | -13.31 | 620.35 | 0.00 |
| 619.10 | -13.31 | 620.35 | 0.00 |
| 619.15 | -13.31 | 620.35 | 0.00 |
| 619.20 | -13.31 | 620.35 | 0.00 |
| 619.25 | -13.31 | 620.35 | 0.00 |
| 619.30 | -13.31 | 620.35 | 0.00 |
| 619.35 | -13.31 | 620.35 | 0.00 |
| 619.40 | -13.31 | 620.35 | 0.00 |
| 619.45 | -13.31 | 620.35 | 0.00 |
| 619.50 | -13.31 | 620.35 | 0.00 |
| 619.55 | -13.31 | 620.35 | 0.00 |
| 619.60 | -13.31 | 620.35 | 0.00 |
| 619.65 | -13.31 | 620.35 | 0.00 |
| 619.70 | -13.31 | 620.35 | 0.00 |
| 619.75 | -13.31 | 620.35 | 0.00 |
| 619.80 | -13.31 | 620.35 | 0.00 |
| 619.85 | -13.31 | 620.35 | 0.00 |
| 619.90 | -13.31 | 620.35 | 0.00 |
| 619.95 | -13.31 | 620.35 | 0.00 |
| 620.00 | -13.31 | 620.35 | 0.00 |
| 620.05 | -13.31 | 620.35 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -12.95 | 620.35 | 0.00 |
| 620.15 | -12.26 | 620.35 | 0.00 |
| 620.20 | -11.25 | 620.35 | 0.00 |
| 620.25 | -9.83 | 620.35 | 0.00 |
| 620.30 | -7.67 | 620.35 | 0.00 |
| 620.35 | 0.00 | 620.35 | 0.00 |
| 620.40 | 9.14 | 620.35 | 0.00 |
| 620.45 | 13.69 | 620.35 | 0.00 |
| 620.50 | 18.07 | 620.35 | 0.00 |
| 620.55 | 22.51 | 620.35 | 0.00 |
| 620.60 | 27.09 | 620.35 | 0.00 |
| 620.65 | 31.82 | 620.35 | 0.00 |
| 620.70 | 36.72 | 620.35 | 0.00 |
| 620.75 | 41.79 | 620.35 | 0.00 |
| 620.80 | 47.02 | 620.35 | 0.00 |
| 620.85 | 52.42 | 620.35 | 0.00 |
| 620.90 | 57.98 | 620.35 | 0.00 |
| 620.95 | 63.70 | 620.35 | 0.00 |
| 621.00 | 69.57 | 620.35 | 0.00 |
| 621.05 | 75.59 | 620.35 | 0.00 |
| 621.10 | 81.76 | 620.35 | 0.00 |
| 621.15 | 88.08 | 620.35 | 0.00 |
| 621.20 | 94.54 | 620.35 | 0.00 |
| 621.25 | 101.14 | 620.35 | 0.00 |
| 621.30 | 107.88 | 620.35 | 0.00 |
| 621.35 | 114.75 | 620.35 | 0.00 |
| 621.40 | 121.75 | 620.35 | 0.00 |
| 621.45 | 128.89 | 620.35 | 0.00 |
| 621.50 | 136.15 | 620.35 | 0.00 |
| 621.55 | 143.53 | 620.35 | 0.00 |
| 621.60 | 151.04 | 620.35 | 0.00 |
| 621.65 | 158.67 | 620.35 | 0.00 |
| 621.70 | 166.42 | 620.35 | 0.00 |
| 621.75 | 174.29 | 620.35 | 0.00 |
| 621.80 | 182.28 | 620.35 | 0.00 |
| 621.85 | 190.38 | 620.35 | 0.00 |
| 621.90 | 198.59 | 620.35 | 0.00 |
| 621.95 | 206.91 | 620.35 | 0.00 |
| 622.00 | 215.34 | 620.35 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -16.77 | 620.40 | 0.00 |
| 618.05 | -16.77 | 620.40 | 0.00 |
| 618.10 | -16.77 | 620.40 | 0.00 |
| 618.15 | -16.77 | 620.40 | 0.00 |
| 618.20 | -16.77 | 620.40 | 0.00 |
| 618.25 | -16.77 | 620.40 | 0.00 |
| 618.30 | -16.77 | 620.40 | 0.00 |
| 618.35 | -16.77 | 620.40 | 0.00 |
| 618.40 | -16.77 | 620.40 | 0.00 |
| 618.45 | -16.77 | 620.40 | 0.00 |
| 618.50 | -16.77 | 620.40 | 0.00 |
| 618.55 | -16.77 | 620.40 | 0.00 |
| 618.60 | -16.77 | 620.40 | 0.00 |
| 618.65 | -16.77 | 620.40 | 0.00 |
| 618.70 | -16.77 | 620.40 | 0.00 |
| 618.75 | -16.77 | 620.40 | 0.00 |
| 618.80 | -16.77 | 620.40 | 0.00 |
| 618.85 | -16.77 | 620.40 | 0.00 |
| 618.90 | -16.77 | 620.40 | 0.00 |
| 618.95 | -16.77 | 620.40 | 0.00 |
| 619.00 | -16.77 | 620.40 | 0.00 |
| 619.05 | -16.77 | 620.40 | 0.00 |
| 619.10 | -16.77 | 620.40 | 0.00 |
| 619.15 | -16.77 | 620.40 | 0.00 |
| 619.20 | -16.77 | 620.40 | 0.00 |
| 619.25 | -16.77 | 620.40 | 0.00 |
| 619.30 | -16.77 | 620.40 | 0.00 |
| 619.35 | -16.77 | 620.40 | 0.00 |
| 619.40 | -16.77 | 620.40 | 0.00 |
| 619.45 | -16.77 | 620.40 | 0.00 |
| 619.50 | -16.77 | 620.40 | 0.00 |
| 619.55 | -16.77 | 620.40 | 0.00 |
| 619.60 | -16.77 | 620.40 | 0.00 |
| 619.65 | -16.77 | 620.40 | 0.00 |
| 619.70 | -16.77 | 620.40 | 0.00 |
| 619.75 | -16.77 | 620.40 | 0.00 |
| 619.80 | -16.77 | 620.40 | 0.00 |
| 619.85 | -16.77 | 620.40 | 0.00 |
| 619.90 | -16.77 | 620.40 | 0.00 |
| 619.95 | -16.77 | 620.40 | 0.00 |
| 620.00 | -16.77 | 620.40 | 0.00 |
| 620.05 | -16.77 | 620.40 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -16.42 | 620.40 | 0.00 |
| 620.15 | -15.74 | 620.40 | 0.00 |
| 620.20 | -14.78 | 620.40 | 0.00 |
| 620.25 | -13.49 | 620.40 | 0.00 |
| 620.30 | -11.74 | 620.40 | 0.00 |
| 620.35 | -9.14 | 620.40 | 0.00 |
| 620.40 | 0.00 | 620.40 | 0.00 |
| 620.45 | 10.62 | 620.40 | 0.00 |
| 620.50 | 15.66 | 620.40 | 0.00 |
| 620.55 | 20.40 | 620.40 | 0.00 |
| 620.60 | 25.15 | 620.40 | 0.00 |
| 620.65 | 30.00 | 620.40 | 0.00 |
| 620.70 | 34.98 | 620.40 | 0.00 |
| 620.75 | 40.10 | 620.40 | 0.00 |
| 620.80 | 45.38 | 620.40 | 0.00 |
| 620.85 | 50.82 | 620.40 | 0.00 |
| 620.90 | 56.40 | 620.40 | 0.00 |
| 620.95 | 62.15 | 620.40 | 0.00 |
| 621.00 | 68.04 | 620.40 | 0.00 |
| 621.05 | 74.08 | 620.40 | 0.00 |
| 621.10 | 80.27 | 620.40 | 0.00 |
| 621.15 | 86.60 | 620.40 | 0.00 |
| 621.20 | 93.07 | 620.40 | 0.00 |
| 621.25 | 99.68 | 620.40 | 0.00 |
| 621.30 | 106.42 | 620.40 | 0.00 |
| 621.35 | 113.30 | 620.40 | 0.00 |
| 621.40 | 120.31 | 620.40 | 0.00 |
| 621.45 | 127.45 | 620.40 | 0.00 |
| 621.50 | 134.72 | 620.40 | 0.00 |
| 621.55 | 142.11 | 620.40 | 0.00 |
| 621.60 | 149.62 | 620.40 | 0.00 |
| 621.65 | 157.26 | 620.40 | 0.00 |
| 621.70 | 165.01 | 620.40 | 0.00 |
| 621.75 | 172.89 | 620.40 | 0.00 |
| 621.80 | 180.87 | 620.40 | 0.00 |
| 621.85 | 188.98 | 620.40 | 0.00 |
| 621.90 | 197.19 | 620.40 | 0.00 |
| 621.95 | 205.52 | 620.40 | 0.00 |
| 622.00 | 213.95 | 620.40 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -20.49 | 620.45 | 0.00 |
| 618.05 | -20.49 | 620.45 | 0.00 |
| 618.10 | -20.49 | 620.45 | 0.00 |
| 618.15 | -20.49 | 620.45 | 0.00 |
| 618.20 | -20.49 | 620.45 | 0.00 |
| 618.25 | -20.49 | 620.45 | 0.00 |
| 618.30 | -20.49 | 620.45 | 0.00 |
| 618.35 | -20.49 | 620.45 | 0.00 |
| 618.40 | -20.49 | 620.45 | 0.00 |
| 618.45 | -20.49 | 620.45 | 0.00 |
| 618.50 | -20.49 | 620.45 | 0.00 |
| 618.55 | -20.49 | 620.45 | 0.00 |
| 618.60 | -20.49 | 620.45 | 0.00 |
| 618.65 | -20.49 | 620.45 | 0.00 |
| 618.70 | -20.49 | 620.45 | 0.00 |
| 618.75 | -20.49 | 620.45 | 0.00 |
| 618.80 | -20.49 | 620.45 | 0.00 |
| 618.85 | -20.49 | 620.45 | 0.00 |
| 618.90 | -20.49 | 620.45 | 0.00 |
| 618.95 | -20.49 | 620.45 | 0.00 |
| 619.00 | -20.49 | 620.45 | 0.00 |
| 619.05 | -20.49 | 620.45 | 0.00 |
| 619.10 | -20.49 | 620.45 | 0.00 |
| 619.15 | -20.49 | 620.45 | 0.00 |
| 619.20 | -20.49 | 620.45 | 0.00 |
| 619.25 | -20.49 | 620.45 | 0.00 |
| 619.30 | -20.49 | 620.45 | 0.00 |
| 619.35 | -20.49 | 620.45 | 0.00 |
| 619.40 | -20.49 | 620.45 | 0.00 |
| 619.45 | -20.49 | 620.45 | 0.00 |
| 619.50 | -20.49 | 620.45 | 0.00 |
| 619.55 | -20.49 | 620.45 | 0.00 |
| 619.60 | -20.49 | 620.45 | 0.00 |
| 619.65 | -20.49 | 620.45 | 0.00 |
| 619.70 | -20.49 | 620.45 | 0.00 |
| 619.75 | -20.49 | 620.45 | 0.00 |
| 619.80 | -20.49 | 620.45 | 0.00 |
| 619.85 | -20.49 | 620.45 | 0.00 |
| 619.90 | -20.49 | 620.45 | 0.00 |
| 619.95 | -20.49 | 620.45 | 0.00 |
| 620.00 | -20.49 | 620.45 | 0.00 |
| 620.05 | -20.49 | 620.45 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -20.14 | 620.45 | 0.00 |
| 620.15 | -19.46 | 620.45 | 0.00 |
| 620.20 | -18.53 | 620.45 | 0.00 |
| 620.25 | -17.32 | 620.45 | 0.00 |
| 620.30 | -15.76 | 620.45 | 0.00 |
| 620.35 | -13.69 | 620.45 | 0.00 |
| 620.40 | -10.62 | 620.45 | 0.00 |
| 620.45 | 0.00 | 620.45 | 0.00 |
| 620.50 | 12.13 | 620.45 | 0.00 |
| 620.55 | 17.65 | 620.45 | 0.00 |
| 620.60 | 22.76 | 620.45 | 0.00 |
| 620.65 | 27.82 | 620.45 | 0.00 |
| 620.70 | 32.93 | 620.45 | 0.00 |
| 620.75 | 38.16 | 620.45 | 0.00 |
| 620.80 | 43.51 | 620.45 | 0.00 |
| 620.85 | 49.00 | 620.45 | 0.00 |
| 620.90 | 54.63 | 620.45 | 0.00 |
| 620.95 | 60.41 | 620.45 | 0.00 |
| 621.00 | 66.33 | 620.45 | 0.00 |
| 621.05 | 72.40 | 620.45 | 0.00 |
| 621.10 | 78.61 | 620.45 | 0.00 |
| 621.15 | 84.95 | 620.45 | 0.00 |
| 621.20 | 91.44 | 620.45 | 0.00 |
| 621.25 | 98.07 | 620.45 | 0.00 |
| 621.30 | 104.82 | 620.45 | 0.00 |
| 621.35 | 111.71 | 620.45 | 0.00 |
| 621.40 | 118.73 | 620.45 | 0.00 |
| 621.45 | 125.88 | 620.45 | 0.00 |
| 621.50 | 133.16 | 620.45 | 0.00 |
| 621.55 | 140.56 | 620.45 | 0.00 |
| 621.60 | 148.08 | 620.45 | 0.00 |
| 621.65 | 155.72 | 620.45 | 0.00 |
| 621.70 | 163.48 | 620.45 | 0.00 |
| 621.75 | 171.35 | 620.45 | 0.00 |
| 621.80 | 179.35 | 620.45 | 0.00 |
| 621.85 | 187.45 | 620.45 | 0.00 |
| 621.90 | 195.67 | 620.45 | 0.00 |
| 621.95 | 204.00 | 620.45 | 0.00 |
| 622.00 | 212.44 | 620.45 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -24.45 | 620.50 | 0.00 |
| 618.05 | -24.45 | 620.50 | 0.00 |
| 618.10 | -24.45 | 620.50 | 0.00 |
| 618.15 | -24.45 | 620.50 | 0.00 |
| 618.20 | -24.45 | 620.50 | 0.00 |
| 618.25 | -24.45 | 620.50 | 0.00 |
| 618.30 | -24.45 | 620.50 | 0.00 |
| 618.35 | -24.45 | 620.50 | 0.00 |
| 618.40 | -24.45 | 620.50 | 0.00 |
| 618.45 | -24.45 | 620.50 | 0.00 |
| 618.50 | -24.45 | 620.50 | 0.00 |
| 618.55 | -24.45 | 620.50 | 0.00 |
| 618.60 | -24.45 | 620.50 | 0.00 |
| 618.65 | -24.45 | 620.50 | 0.00 |
| 618.70 | -24.45 | 620.50 | 0.00 |
| 618.75 | -24.45 | 620.50 | 0.00 |
| 618.80 | -24.45 | 620.50 | 0.00 |
| 618.85 | -24.45 | 620.50 | 0.00 |
| 618.90 | -24.45 | 620.50 | 0.00 |
| 618.95 | -24.45 | 620.50 | 0.00 |
| 619.00 | -24.45 | 620.50 | 0.00 |
| 619.05 | -24.45 | 620.50 | 0.00 |
| 619.10 | -24.45 | 620.50 | 0.00 |
| 619.15 | -24.45 | 620.50 | 0.00 |
| 619.20 | -24.45 | 620.50 | 0.00 |
| 619.25 | -24.45 | 620.50 | 0.00 |
| 619.30 | -24.45 | 620.50 | 0.00 |
| 619.35 | -24.45 | 620.50 | 0.00 |
| 619.40 | -24.45 | 620.50 | 0.00 |
| 619.45 | -24.45 | 620.50 | 0.00 |
| 619.50 | -24.45 | 620.50 | 0.00 |
| 619.55 | -24.45 | 620.50 | 0.00 |
| 619.60 | -24.45 | 620.50 | 0.00 |
| 619.65 | -24.45 | 620.50 | 0.00 |
| 619.70 | -24.45 | 620.50 | 0.00 |
| 619.75 | -24.45 | 620.50 | 0.00 |
| 619.80 | -24.45 | 620.50 | 0.00 |
| 619.85 | -24.45 | 620.50 | 0.00 |
| 619.90 | -24.45 | 620.50 | 0.00 |
| 619.95 | -24.45 | 620.50 | 0.00 |
| 620.00 | -24.45 | 620.50 | 0.00 |
| 620.05 | -24.45 | 620.50 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -24.10 | 620.50 | 0.00 |
| 620.15 | -23.43 | 620.50 | 0.00 |
| 620.20 | -22.52 | 620.50 | 0.00 |
| 620.25 | -21.36 | 620.50 | 0.00 |
| 620.30 | -19.90 | 620.50 | 0.00 |
| 620.35 | -18.07 | 620.50 | 0.00 |
| 620.40 | -15.66 | 620.50 | 0.00 |
| 620.45 | -12.13 | 620.50 | 0.00 |
| 620.50 | 0.00 | 620.50 | 0.00 |
| 620.55 | 13.66 | 620.50 | 0.00 |
| 620.60 | 19.67 | 620.50 | 0.00 |
| 620.65 | 25.14 | 620.50 | 0.00 |
| 620.70 | 30.51 | 620.50 | 0.00 |
| 620.75 | 35.89 | 620.50 | 0.00 |
| 620.80 | 41.36 | 620.50 | 0.00 |
| 620.85 | 46.94 | 620.50 | 0.00 |
| 620.90 | 52.64 | 620.50 | 0.00 |
| 620.95 | 58.47 | 620.50 | 0.00 |
| 621.00 | 64.43 | 620.50 | 0.00 |
| 621.05 | 70.53 | 620.50 | 0.00 |
| 621.10 | 76.77 | 620.50 | 0.00 |
| 621.15 | 83.15 | 620.50 | 0.00 |
| 621.20 | 89.66 | 620.50 | 0.00 |
| 621.25 | 96.30 | 620.50 | 0.00 |
| 621.30 | 103.08 | 620.50 | 0.00 |
| 621.35 | 109.98 | 620.50 | 0.00 |
| 621.40 | 117.02 | 620.50 | 0.00 |
| 621.45 | 124.18 | 620.50 | 0.00 |
| 621.50 | 131.46 | 620.50 | 0.00 |
| 621.55 | 138.87 | 620.50 | 0.00 |
| 621.60 | 146.40 | 620.50 | 0.00 |
| 621.65 | 154.05 | 620.50 | 0.00 |
| 621.70 | 161.82 | 620.50 | 0.00 |
| 621.75 | 169.70 | 620.50 | 0.00 |
| 621.80 | 177.70 | 620.50 | 0.00 |
| 621.85 | 185.81 | 620.50 | 0.00 |
| 621.90 | 194.03 | 620.50 | 0.00 |
| 621.95 | 202.37 | 620.50 | 0.00 |
| 622.00 | 210.81 | 620.50 | 0.00 |

Contributing Structures

| |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -28.64 | 620.55 | 0.00 |
| 618.05 | -28.64 | 620.55 | 0.00 |
| 618.10 | -28.64 | 620.55 | 0.00 |
| 618.15 | -28.64 | 620.55 | 0.00 |
| 618.20 | -28.64 | 620.55 | 0.00 |
| 618.25 | -28.64 | 620.55 | 0.00 |
| 618.30 | -28.64 | 620.55 | 0.00 |
| 618.35 | -28.64 | 620.55 | 0.00 |
| 618.40 | -28.64 | 620.55 | 0.00 |
| 618.45 | -28.64 | 620.55 | 0.00 |
| 618.50 | -28.64 | 620.55 | 0.00 |
| 618.55 | -28.64 | 620.55 | 0.00 |
| 618.60 | -28.64 | 620.55 | 0.00 |
| 618.65 | -28.64 | 620.55 | 0.00 |
| 618.70 | -28.64 | 620.55 | 0.00 |
| 618.75 | -28.64 | 620.55 | 0.00 |
| 618.80 | -28.64 | 620.55 | 0.00 |
| 618.85 | -28.64 | 620.55 | 0.00 |
| 618.90 | -28.64 | 620.55 | 0.00 |
| 618.95 | -28.64 | 620.55 | 0.00 |
| 619.00 | -28.64 | 620.55 | 0.00 |
| 619.05 | -28.64 | 620.55 | 0.00 |
| 619.10 | -28.64 | 620.55 | 0.00 |
| 619.15 | -28.64 | 620.55 | 0.00 |
| 619.20 | -28.64 | 620.55 | 0.00 |
| 619.25 | -28.64 | 620.55 | 0.00 |
| 619.30 | -28.64 | 620.55 | 0.00 |
| 619.35 | -28.64 | 620.55 | 0.00 |
| 619.40 | -28.64 | 620.55 | 0.00 |
| 619.45 | -28.64 | 620.55 | 0.00 |
| 619.50 | -28.64 | 620.55 | 0.00 |
| 619.55 | -28.64 | 620.55 | 0.00 |
| 619.60 | -28.64 | 620.55 | 0.00 |
| 619.65 | -28.64 | 620.55 | 0.00 |
| 619.70 | -28.64 | 620.55 | 0.00 |
| 619.75 | -28.64 | 620.55 | 0.00 |
| 619.80 | -28.64 | 620.55 | 0.00 |
| 619.85 | -28.64 | 620.55 | 0.00 |
| 619.90 | -28.64 | 620.55 | 0.00 |
| 619.95 | -28.64 | 620.55 | 0.00 |
| 620.00 | -28.64 | 620.55 | 0.00 |
| 620.05 | -28.64 | 620.55 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -28.29 | 620.55 | 0.00 |
| 620.15 | -27.62 | 620.55 | 0.00 |
| 620.20 | -26.73 | 620.55 | 0.00 |
| 620.25 | -25.60 | 620.55 | 0.00 |
| 620.30 | -24.21 | 620.55 | 0.00 |
| 620.35 | -22.51 | 620.55 | 0.00 |
| 620.40 | -20.40 | 620.55 | 0.00 |
| 620.45 | -17.65 | 620.55 | 0.00 |
| 620.50 | -13.66 | 620.55 | 0.00 |
| 620.55 | 0.00 | 620.55 | 0.00 |
| 620.60 | 15.20 | 620.55 | 0.00 |
| 620.65 | 21.71 | 620.55 | 0.00 |
| 620.70 | 27.55 | 620.55 | 0.00 |
| 620.75 | 33.22 | 620.55 | 0.00 |
| 620.80 | 38.87 | 620.55 | 0.00 |
| 620.85 | 44.58 | 620.55 | 0.00 |
| 620.90 | 50.39 | 620.55 | 0.00 |
| 620.95 | 56.29 | 620.55 | 0.00 |
| 621.00 | 62.32 | 620.55 | 0.00 |
| 621.05 | 68.48 | 620.55 | 0.00 |
| 621.10 | 74.76 | 620.55 | 0.00 |
| 621.15 | 81.17 | 620.55 | 0.00 |
| 621.20 | 87.71 | 620.55 | 0.00 |
| 621.25 | 94.38 | 620.55 | 0.00 |
| 621.30 | 101.18 | 620.55 | 0.00 |
| 621.35 | 108.10 | 620.55 | 0.00 |
| 621.40 | 115.15 | 620.55 | 0.00 |
| 621.45 | 122.33 | 620.55 | 0.00 |
| 621.50 | 129.63 | 620.55 | 0.00 |
| 621.55 | 137.05 | 620.55 | 0.00 |
| 621.60 | 144.59 | 620.55 | 0.00 |
| 621.65 | 152.25 | 620.55 | 0.00 |
| 621.70 | 160.03 | 620.55 | 0.00 |
| 621.75 | 167.92 | 620.55 | 0.00 |
| 621.80 | 175.93 | 620.55 | 0.00 |
| 621.85 | 184.05 | 620.55 | 0.00 |
| 621.90 | 192.28 | 620.55 | 0.00 |
| 621.95 | 200.62 | 620.55 | 0.00 |
| 622.00 | 209.07 | 620.55 | 0.00 |

Contributing Structures

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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -33.04 | 620.60 | 0.00 |
| 618.05 | -33.04 | 620.60 | 0.00 |
| 618.10 | -33.04 | 620.60 | 0.00 |
| 618.15 | -33.04 | 620.60 | 0.00 |
| 618.20 | -33.04 | 620.60 | 0.00 |
| 618.25 | -33.04 | 620.60 | 0.00 |
| 618.30 | -33.04 | 620.60 | 0.00 |
| 618.35 | -33.04 | 620.60 | 0.00 |
| 618.40 | -33.04 | 620.60 | 0.00 |
| 618.45 | -33.04 | 620.60 | 0.00 |
| 618.50 | -33.04 | 620.60 | 0.00 |
| 618.55 | -33.04 | 620.60 | 0.00 |
| 618.60 | -33.04 | 620.60 | 0.00 |
| 618.65 | -33.04 | 620.60 | 0.00 |
| 618.70 | -33.04 | 620.60 | 0.00 |
| 618.75 | -33.04 | 620.60 | 0.00 |
| 618.80 | -33.04 | 620.60 | 0.00 |
| 618.85 | -33.04 | 620.60 | 0.00 |
| 618.90 | -33.04 | 620.60 | 0.00 |
| 618.95 | -33.04 | 620.60 | 0.00 |
| 619.00 | -33.04 | 620.60 | 0.00 |
| 619.05 | -33.04 | 620.60 | 0.00 |
| 619.10 | -33.04 | 620.60 | 0.00 |
| 619.15 | -33.04 | 620.60 | 0.00 |
| 619.20 | -33.04 | 620.60 | 0.00 |
| 619.25 | -33.04 | 620.60 | 0.00 |
| 619.30 | -33.04 | 620.60 | 0.00 |
| 619.35 | -33.04 | 620.60 | 0.00 |
| 619.40 | -33.04 | 620.60 | 0.00 |
| 619.45 | -33.04 | 620.60 | 0.00 |
| 619.50 | -33.04 | 620.60 | 0.00 |
| 619.55 | -33.04 | 620.60 | 0.00 |
| 619.60 | -33.04 | 620.60 | 0.00 |
| 619.65 | -33.04 | 620.60 | 0.00 |
| 619.70 | -33.04 | 620.60 | 0.00 |
| 619.75 | -33.04 | 620.60 | 0.00 |
| 619.80 | -33.04 | 620.60 | 0.00 |
| 619.85 | -33.04 | 620.60 | 0.00 |
| 619.90 | -33.04 | 620.60 | 0.00 |
| 619.95 | -33.04 | 620.60 | 0.00 |
| 620.00 | -33.04 | 620.60 | 0.00 |
| 620.05 | -33.04 | 620.60 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -32.69 | 620.60 | 0.00 |
| 620.15 | -32.03 | 620.60 | 0.00 |
| 620.20 | -31.14 | 620.60 | 0.00 |
| 620.25 | -30.04 | 620.60 | 0.00 |
| 620.30 | -28.70 | 620.60 | 0.00 |
| 620.35 | -27.09 | 620.60 | 0.00 |
| 620.40 | -25.15 | 620.60 | 0.00 |
| 620.45 | -22.76 | 620.60 | 0.00 |
| 620.50 | -19.67 | 620.60 | 0.00 |
| 620.55 | -15.20 | 620.60 | 0.00 |
| 620.60 | 0.00 | 620.60 | 0.00 |
| 620.65 | 16.77 | 620.60 | 0.00 |
| 620.70 | 23.77 | 620.60 | 0.00 |
| 620.75 | 29.98 | 620.60 | 0.00 |
| 620.80 | 35.95 | 620.60 | 0.00 |
| 620.85 | 41.88 | 620.60 | 0.00 |
| 620.90 | 47.83 | 620.60 | 0.00 |
| 620.95 | 53.86 | 620.60 | 0.00 |
| 621.00 | 59.97 | 620.60 | 0.00 |
| 621.05 | 66.20 | 620.60 | 0.00 |
| 621.10 | 72.54 | 620.60 | 0.00 |
| 621.15 | 79.00 | 620.60 | 0.00 |
| 621.20 | 85.58 | 620.60 | 0.00 |
| 621.25 | 92.29 | 620.60 | 0.00 |
| 621.30 | 99.12 | 620.60 | 0.00 |
| 621.35 | 106.07 | 620.60 | 0.00 |
| 621.40 | 113.14 | 620.60 | 0.00 |
| 621.45 | 120.34 | 620.60 | 0.00 |
| 621.50 | 127.66 | 620.60 | 0.00 |
| 621.55 | 135.10 | 620.60 | 0.00 |
| 621.60 | 142.65 | 620.60 | 0.00 |
| 621.65 | 150.33 | 620.60 | 0.00 |
| 621.70 | 158.11 | 620.60 | 0.00 |
| 621.75 | 166.02 | 620.60 | 0.00 |
| 621.80 | 174.03 | 620.60 | 0.00 |
| 621.85 | 182.16 | 620.60 | 0.00 |
| 621.90 | 190.40 | 620.60 | 0.00 |
| 621.95 | 198.75 | 620.60 | 0.00 |
| 622.00 | 207.21 | 620.60 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -37.65 | 620.65 | 0.00 |
| 618.05 | -37.65 | 620.65 | 0.00 |
| 618.10 | -37.65 | 620.65 | 0.00 |
| 618.15 | -37.65 | 620.65 | 0.00 |
| 618.20 | -37.65 | 620.65 | 0.00 |
| 618.25 | -37.65 | 620.65 | 0.00 |
| 618.30 | -37.65 | 620.65 | 0.00 |
| 618.35 | -37.65 | 620.65 | 0.00 |
| 618.40 | -37.65 | 620.65 | 0.00 |
| 618.45 | -37.65 | 620.65 | 0.00 |
| 618.50 | -37.65 | 620.65 | 0.00 |
| 618.55 | -37.65 | 620.65 | 0.00 |
| 618.60 | -37.65 | 620.65 | 0.00 |
| 618.65 | -37.65 | 620.65 | 0.00 |
| 618.70 | -37.65 | 620.65 | 0.00 |
| 618.75 | -37.65 | 620.65 | 0.00 |
| 618.80 | -37.65 | 620.65 | 0.00 |
| 618.85 | -37.65 | 620.65 | 0.00 |
| 618.90 | -37.65 | 620.65 | 0.00 |
| 618.95 | -37.65 | 620.65 | 0.00 |
| 619.00 | -37.65 | 620.65 | 0.00 |
| 619.05 | -37.65 | 620.65 | 0.00 |
| 619.10 | -37.65 | 620.65 | 0.00 |
| 619.15 | -37.65 | 620.65 | 0.00 |
| 619.20 | -37.65 | 620.65 | 0.00 |
| 619.25 | -37.65 | 620.65 | 0.00 |
| 619.30 | -37.65 | 620.65 | 0.00 |
| 619.35 | -37.65 | 620.65 | 0.00 |
| 619.40 | -37.65 | 620.65 | 0.00 |
| 619.45 | -37.65 | 620.65 | 0.00 |
| 619.50 | -37.65 | 620.65 | 0.00 |
| 619.55 | -37.65 | 620.65 | 0.00 |
| 619.60 | -37.65 | 620.65 | 0.00 |
| 619.65 | -37.65 | 620.65 | 0.00 |
| 619.70 | -37.65 | 620.65 | 0.00 |
| 619.75 | -37.65 | 620.65 | 0.00 |
| 619.80 | -37.65 | 620.65 | 0.00 |
| 619.85 | -37.65 | 620.65 | 0.00 |
| 619.90 | -37.65 | 620.65 | 0.00 |
| 619.95 | -37.65 | 620.65 | 0.00 |
| 620.00 | -37.65 | 620.65 | 0.00 |
| 620.05 | -37.65 | 620.65 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -37.29 | 620.65 | 0.00 |
| 620.15 | -36.64 | 620.65 | 0.00 |
| 620.20 | -35.76 | 620.65 | 0.00 |
| 620.25 | -34.67 | 620.65 | 0.00 |
| 620.30 | -33.37 | 620.65 | 0.00 |
| 620.35 | -31.82 | 620.65 | 0.00 |
| 620.40 | -30.00 | 620.65 | 0.00 |
| 620.45 | -27.82 | 620.65 | 0.00 |
| 620.50 | -25.14 | 620.65 | 0.00 |
| 620.55 | -21.71 | 620.65 | 0.00 |
| 620.60 | -16.77 | 620.65 | 0.00 |
| 620.65 | 0.00 | 620.65 | 0.00 |
| 620.70 | 18.34 | 620.65 | 0.00 |
| 620.75 | 25.84 | 620.65 | 0.00 |
| 620.80 | 32.42 | 620.65 | 0.00 |
| 620.85 | 38.71 | 620.65 | 0.00 |
| 620.90 | 44.90 | 620.65 | 0.00 |
| 620.95 | 51.10 | 620.65 | 0.00 |
| 621.00 | 57.35 | 620.65 | 0.00 |
| 621.05 | 63.68 | 620.65 | 0.00 |
| 621.10 | 70.10 | 620.65 | 0.00 |
| 621.15 | 76.62 | 620.65 | 0.00 |
| 621.20 | 83.26 | 620.65 | 0.00 |
| 621.25 | 90.01 | 620.65 | 0.00 |
| 621.30 | 96.88 | 620.65 | 0.00 |
| 621.35 | 103.87 | 620.65 | 0.00 |
| 621.40 | 110.98 | 620.65 | 0.00 |
| 621.45 | 118.20 | 620.65 | 0.00 |
| 621.50 | 125.54 | 620.65 | 0.00 |
| 621.55 | 133.00 | 620.65 | 0.00 |
| 621.60 | 140.58 | 620.65 | 0.00 |
| 621.65 | 148.27 | 620.65 | 0.00 |
| 621.70 | 156.07 | 620.65 | 0.00 |
| 621.75 | 163.99 | 620.65 | 0.00 |
| 621.80 | 172.02 | 620.65 | 0.00 |
| 621.85 | 180.16 | 620.65 | 0.00 |
| 621.90 | 188.41 | 620.65 | 0.00 |
| 621.95 | 196.77 | 620.65 | 0.00 |
| 622.00 | 205.23 | 620.65 | 0.00 |

Contributing Structures

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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -42.45 | 620.70 | 0.00 |
| 618.05 | -42.45 | 620.70 | 0.00 |
| 618.10 | -42.45 | 620.70 | 0.00 |
| 618.15 | -42.45 | 620.70 | 0.00 |
| 618.20 | -42.45 | 620.70 | 0.00 |
| 618.25 | -42.45 | 620.70 | 0.00 |
| 618.30 | -42.45 | 620.70 | 0.00 |
| 618.35 | -42.45 | 620.70 | 0.00 |
| 618.40 | -42.45 | 620.70 | 0.00 |
| 618.45 | -42.45 | 620.70 | 0.00 |
| 618.50 | -42.45 | 620.70 | 0.00 |
| 618.55 | -42.45 | 620.70 | 0.00 |
| 618.60 | -42.45 | 620.70 | 0.00 |
| 618.65 | -42.45 | 620.70 | 0.00 |
| 618.70 | -42.45 | 620.70 | 0.00 |
| 618.75 | -42.45 | 620.70 | 0.00 |
| 618.80 | -42.45 | 620.70 | 0.00 |
| 618.85 | -42.45 | 620.70 | 0.00 |
| 618.90 | -42.45 | 620.70 | 0.00 |
| 618.95 | -42.45 | 620.70 | 0.00 |
| 619.00 | -42.45 | 620.70 | 0.00 |
| 619.05 | -42.45 | 620.70 | 0.00 |
| 619.10 | -42.45 | 620.70 | 0.00 |
| 619.15 | -42.45 | 620.70 | 0.00 |
| 619.20 | -42.45 | 620.70 | 0.00 |
| 619.25 | -42.45 | 620.70 | 0.00 |
| 619.30 | -42.45 | 620.70 | 0.00 |
| 619.35 | -42.45 | 620.70 | 0.00 |
| 619.40 | -42.45 | 620.70 | 0.00 |
| 619.45 | -42.45 | 620.70 | 0.00 |
| 619.50 | -42.45 | 620.70 | 0.00 |
| 619.55 | -42.45 | 620.70 | 0.00 |
| 619.60 | -42.45 | 620.70 | 0.00 |
| 619.65 | -42.45 | 620.70 | 0.00 |
| 619.70 | -42.45 | 620.70 | 0.00 |
| 619.75 | -42.45 | 620.70 | 0.00 |
| 619.80 | -42.45 | 620.70 | 0.00 |
| 619.85 | -42.45 | 620.70 | 0.00 |
| 619.90 | -42.45 | 620.70 | 0.00 |
| 619.95 | -42.45 | 620.70 | 0.00 |
| 620.00 | -42.45 | 620.70 | 0.00 |
| 620.05 | -42.45 | 620.70 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -42.10 | 620.70 | 0.00 |
| 620.15 | -41.44 | 620.70 | 0.00 |
| 620.20 | -40.57 | 620.70 | 0.00 |
| 620.25 | -39.50 | 620.70 | 0.00 |
| 620.30 | -38.22 | 620.70 | 0.00 |
| 620.35 | -36.72 | 620.70 | 0.00 |
| 620.40 | -34.98 | 620.70 | 0.00 |
| 620.45 | -32.93 | 620.70 | 0.00 |
| 620.50 | -30.51 | 620.70 | 0.00 |
| 620.55 | -27.55 | 620.70 | 0.00 |
| 620.60 | -23.77 | 620.70 | 0.00 |
| 620.65 | -18.34 | 620.70 | 0.00 |
| 620.70 | 0.00 | 620.70 | 0.00 |
| 620.75 | 19.94 | 620.70 | 0.00 |
| 620.80 | 27.94 | 620.70 | 0.00 |
| 620.85 | 34.89 | 620.70 | 0.00 |
| 620.90 | 41.48 | 620.70 | 0.00 |
| 620.95 | 47.95 | 620.70 | 0.00 |
| 621.00 | 54.39 | 620.70 | 0.00 |
| 621.05 | 60.86 | 620.70 | 0.00 |
| 621.10 | 67.40 | 620.70 | 0.00 |
| 621.15 | 74.02 | 620.70 | 0.00 |
| 621.20 | 80.73 | 620.70 | 0.00 |
| 621.25 | 87.54 | 620.70 | 0.00 |
| 621.30 | 94.46 | 620.70 | 0.00 |
| 621.35 | 101.50 | 620.70 | 0.00 |
| 621.40 | 108.64 | 620.70 | 0.00 |
| 621.45 | 115.90 | 620.70 | 0.00 |
| 621.50 | 123.27 | 620.70 | 0.00 |
| 621.55 | 130.76 | 620.70 | 0.00 |
| 621.60 | 138.36 | 620.70 | 0.00 |
| 621.65 | 146.07 | 620.70 | 0.00 |
| 621.70 | 153.89 | 620.70 | 0.00 |
| 621.75 | 161.83 | 620.70 | 0.00 |
| 621.80 | 169.87 | 620.70 | 0.00 |
| 621.85 | 178.03 | 620.70 | 0.00 |
| 621.90 | 186.29 | 620.70 | 0.00 |
| 621.95 | 194.66 | 620.70 | 0.00 |
| 622.00 | 203.14 | 620.70 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
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| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -47.44 | 620.75 | 0.00 |
| 618.05 | -47.44 | 620.75 | 0.00 |
| 618.10 | -47.44 | 620.75 | 0.00 |
| 618.15 | -47.44 | 620.75 | 0.00 |
| 618.20 | -47.44 | 620.75 | 0.00 |
| 618.25 | -47.44 | 620.75 | 0.00 |
| 618.30 | -47.44 | 620.75 | 0.00 |
| 618.35 | -47.44 | 620.75 | 0.00 |
| 618.40 | -47.44 | 620.75 | 0.00 |
| 618.45 | -47.44 | 620.75 | 0.00 |
| 618.50 | -47.44 | 620.75 | 0.00 |
| 618.55 | -47.44 | 620.75 | 0.00 |
| 618.60 | -47.44 | 620.75 | 0.00 |
| 618.65 | -47.44 | 620.75 | 0.00 |
| 618.70 | -47.44 | 620.75 | 0.00 |
| 618.75 | -47.44 | 620.75 | 0.00 |
| 618.80 | -47.44 | 620.75 | 0.00 |
| 618.85 | -47.44 | 620.75 | 0.00 |
| 618.90 | -47.44 | 620.75 | 0.00 |
| 618.95 | -47.44 | 620.75 | 0.00 |
| 619.00 | -47.44 | 620.75 | 0.00 |
| 619.05 | -47.44 | 620.75 | 0.00 |
| 619.10 | -47.44 | 620.75 | 0.00 |
| 619.15 | -47.44 | 620.75 | 0.00 |
| 619.20 | -47.44 | 620.75 | 0.00 |
| 619.25 | -47.44 | 620.75 | 0.00 |
| 619.30 | -47.44 | 620.75 | 0.00 |
| 619.35 | -47.44 | 620.75 | 0.00 |
| 619.40 | -47.44 | 620.75 | 0.00 |
| 619.45 | -47.44 | 620.75 | 0.00 |
| 619.50 | -47.44 | 620.75 | 0.00 |
| 619.55 | -47.44 | 620.75 | 0.00 |
| 619.60 | -47.44 | 620.75 | 0.00 |
| 619.65 | -47.44 | 620.75 | 0.00 |
| 619.70 | -47.44 | 620.75 | 0.00 |
| 619.75 | -47.44 | 620.75 | 0.00 |
| 619.80 | -47.44 | 620.75 | 0.00 |
| 619.85 | -47.44 | 620.75 | 0.00 |
| 619.90 | -47.44 | 620.75 | 0.00 |
| 619.95 | -47.44 | 620.75 | 0.00 |
| 620.00 | -47.44 | 620.75 | 0.00 |
| 620.05 | -47.44 | 620.75 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -47.09 | 620.75 | 0.00 |
| 620.15 | -46.44 | 620.75 | 0.00 |
| 620.20 | -45.57 | 620.75 | 0.00 |
| 620.25 | -44.51 | 620.75 | 0.00 |
| 620.30 | -43.25 | 620.75 | 0.00 |
| 620.35 | -41.79 | 620.75 | 0.00 |
| 620.40 | -40.10 | 620.75 | 0.00 |
| 620.45 | -38.16 | 620.75 | 0.00 |
| 620.50 | -35.89 | 620.75 | 0.00 |
| 620.55 | -33.22 | 620.75 | 0.00 |
| 620.60 | -29.98 | 620.75 | 0.00 |
| 620.65 | -25.84 | 620.75 | 0.00 |
| 620.70 | -19.94 | 620.75 | 0.00 |
| 620.75 | 0.00 | 620.75 | 0.00 |
| 620.80 | 21.54 | 620.75 | 0.00 |
| 620.85 | 30.05 | 620.75 | 0.00 |
| 620.90 | 37.38 | 620.75 | 0.00 |
| 620.95 | 44.28 | 620.75 | 0.00 |
| 621.00 | 51.01 | 620.75 | 0.00 |
| 621.05 | 57.70 | 620.75 | 0.00 |
| 621.10 | 64.39 | 620.75 | 0.00 |
| 621.15 | 71.14 | 620.75 | 0.00 |
| 621.20 | 77.95 | 620.75 | 0.00 |
| 621.25 | 84.85 | 620.75 | 0.00 |
| 621.30 | 91.84 | 620.75 | 0.00 |
| 621.35 | 98.93 | 620.75 | 0.00 |
| 621.40 | 106.13 | 620.75 | 0.00 |
| 621.45 | 113.43 | 620.75 | 0.00 |
| 621.50 | 120.84 | 620.75 | 0.00 |
| 621.55 | 128.36 | 620.75 | 0.00 |
| 621.60 | 135.99 | 620.75 | 0.00 |
| 621.65 | 143.73 | 620.75 | 0.00 |
| 621.70 | 151.58 | 620.75 | 0.00 |
| 621.75 | 159.53 | 620.75 | 0.00 |
| 621.80 | 167.60 | 620.75 | 0.00 |
| 621.85 | 175.77 | 620.75 | 0.00 |
| 621.90 | 184.05 | 620.75 | 0.00 |
| 621.95 | 192.44 | 620.75 | 0.00 |
| 622.00 | 200.93 | 620.75 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -52.61 | 620.80 | 0.00 |
| 618.05 | -52.61 | 620.80 | 0.00 |
| 618.10 | -52.61 | 620.80 | 0.00 |
| 618.15 | -52.61 | 620.80 | 0.00 |
| 618.20 | -52.61 | 620.80 | 0.00 |
| 618.25 | -52.61 | 620.80 | 0.00 |
| 618.30 | -52.61 | 620.80 | 0.00 |
| 618.35 | -52.61 | 620.80 | 0.00 |
| 618.40 | -52.61 | 620.80 | 0.00 |
| 618.45 | -52.61 | 620.80 | 0.00 |
| 618.50 | -52.61 | 620.80 | 0.00 |
| 618.55 | -52.61 | 620.80 | 0.00 |
| 618.60 | -52.61 | 620.80 | 0.00 |
| 618.65 | -52.61 | 620.80 | 0.00 |
| 618.70 | -52.61 | 620.80 | 0.00 |
| 618.75 | -52.61 | 620.80 | 0.00 |
| 618.80 | -52.61 | 620.80 | 0.00 |
| 618.85 | -52.61 | 620.80 | 0.00 |
| 618.90 | -52.61 | 620.80 | 0.00 |
| 618.95 | -52.61 | 620.80 | 0.00 |
| 619.00 | -52.61 | 620.80 | 0.00 |
| 619.05 | -52.61 | 620.80 | 0.00 |
| 619.10 | -52.61 | 620.80 | 0.00 |
| 619.15 | -52.61 | 620.80 | 0.00 |
| 619.20 | -52.61 | 620.80 | 0.00 |
| 619.25 | -52.61 | 620.80 | 0.00 |
| 619.30 | -52.61 | 620.80 | 0.00 |
| 619.35 | -52.61 | 620.80 | 0.00 |
| 619.40 | -52.61 | 620.80 | 0.00 |
| 619.45 | -52.61 | 620.80 | 0.00 |
| 619.50 | -52.61 | 620.80 | 0.00 |
| 619.55 | -52.61 | 620.80 | 0.00 |
| 619.60 | -52.61 | 620.80 | 0.00 |
| 619.65 | -52.61 | 620.80 | 0.00 |
| 619.70 | -52.61 | 620.80 | 0.00 |
| 619.75 | -52.61 | 620.80 | 0.00 |
| 619.80 | -52.61 | 620.80 | 0.00 |
| 619.85 | -52.61 | 620.80 | 0.00 |
| 619.90 | -52.61 | 620.80 | 0.00 |
| 619.95 | -52.61 | 620.80 | 0.00 |
| 620.00 | -52.61 | 620.80 | 0.00 |
| 620.05 | -52.61 | 620.80 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -52.26 | 620.80 | 0.00 |
| 620.15 | -51.61 | 620.80 | 0.00 |
| 620.20 | -50.75 | 620.80 | 0.00 |
| 620.25 | -49.69 | 620.80 | 0.00 |
| 620.30 | -48.45 | 620.80 | 0.00 |
| 620.35 | -47.02 | 620.80 | 0.00 |
| 620.40 | -45.38 | 620.80 | 0.00 |
| 620.45 | -43.51 | 620.80 | 0.00 |
| 620.50 | -41.36 | 620.80 | 0.00 |
| 620.55 | -38.87 | 620.80 | 0.00 |
| 620.60 | -35.95 | 620.80 | 0.00 |
| 620.65 | -32.42 | 620.80 | 0.00 |
| 620.70 | -27.94 | 620.80 | 0.00 |
| 620.75 | -21.54 | 620.80 | 0.00 |
| 620.80 | 0.00 | 620.80 | 0.00 |
| 620.85 | 23.16 | 620.80 | 0.00 |
| 620.90 | 32.17 | 620.80 | 0.00 |
| 620.95 | 39.88 | 620.80 | 0.00 |
| 621.00 | 47.09 | 620.80 | 0.00 |
| 621.05 | 54.10 | 620.80 | 0.00 |
| 621.10 | 61.03 | 620.80 | 0.00 |
| 621.15 | 67.95 | 620.80 | 0.00 |
| 621.20 | 74.90 | 620.80 | 0.00 |
| 621.25 | 81.91 | 620.80 | 0.00 |
| 621.30 | 88.99 | 620.80 | 0.00 |
| 621.35 | 96.16 | 620.80 | 0.00 |
| 621.40 | 103.42 | 620.80 | 0.00 |
| 621.45 | 110.78 | 620.80 | 0.00 |
| 621.50 | 118.24 | 620.80 | 0.00 |
| 621.55 | 125.80 | 620.80 | 0.00 |
| 621.60 | 133.47 | 620.80 | 0.00 |
| 621.65 | 141.24 | 620.80 | 0.00 |
| 621.70 | 149.12 | 620.80 | 0.00 |
| 621.75 | 157.10 | 620.80 | 0.00 |
| 621.80 | 165.19 | 620.80 | 0.00 |
| 621.85 | 173.39 | 620.80 | 0.00 |
| 621.90 | 181.69 | 620.80 | 0.00 |
| 621.95 | 190.09 | 620.80 | 0.00 |
| 622.00 | 198.60 | 620.80 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -57.96 | 620.85 | 0.00 |
| 618.05 | -57.96 | 620.85 | 0.00 |
| 618.10 | -57.96 | 620.85 | 0.00 |
| 618.15 | -57.96 | 620.85 | 0.00 |
| 618.20 | -57.96 | 620.85 | 0.00 |
| 618.25 | -57.96 | 620.85 | 0.00 |
| 618.30 | -57.96 | 620.85 | 0.00 |
| 618.35 | -57.96 | 620.85 | 0.00 |
| 618.40 | -57.96 | 620.85 | 0.00 |
| 618.45 | -57.96 | 620.85 | 0.00 |
| 618.50 | -57.96 | 620.85 | 0.00 |
| 618.55 | -57.96 | 620.85 | 0.00 |
| 618.60 | -57.96 | 620.85 | 0.00 |
| 618.65 | -57.96 | 620.85 | 0.00 |
| 618.70 | -57.96 | 620.85 | 0.00 |
| 618.75 | -57.96 | 620.85 | 0.00 |
| 618.80 | -57.96 | 620.85 | 0.00 |
| 618.85 | -57.96 | 620.85 | 0.00 |
| 618.90 | -57.96 | 620.85 | 0.00 |
| 618.95 | -57.96 | 620.85 | 0.00 |
| 619.00 | -57.96 | 620.85 | 0.00 |
| 619.05 | -57.96 | 620.85 | 0.00 |
| 619.10 | -57.96 | 620.85 | 0.00 |
| 619.15 | -57.96 | 620.85 | 0.00 |
| 619.20 | -57.96 | 620.85 | 0.00 |
| 619.25 | -57.96 | 620.85 | 0.00 |
| 619.30 | -57.96 | 620.85 | 0.00 |
| 619.35 | -57.96 | 620.85 | 0.00 |
| 619.40 | -57.96 | 620.85 | 0.00 |
| 619.45 | -57.96 | 620.85 | 0.00 |
| 619.50 | -57.96 | 620.85 | 0.00 |
| 619.55 | -57.96 | 620.85 | 0.00 |
| 619.60 | -57.96 | 620.85 | 0.00 |
| 619.65 | -57.96 | 620.85 | 0.00 |
| 619.70 | -57.96 | 620.85 | 0.00 |
| 619.75 | -57.96 | 620.85 | 0.00 |
| 619.80 | -57.96 | 620.85 | 0.00 |
| 619.85 | -57.96 | 620.85 | 0.00 |
| 619.90 | -57.96 | 620.85 | 0.00 |
| 619.95 | -57.96 | 620.85 | 0.00 |
| 620.00 | -57.96 | 620.85 | 0.00 |
| 620.05 | -57.96 | 620.85 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -57.61 | 620.85 | 0.00 |
| 620.15 | -56.96 | 620.85 | 0.00 |
| 620.20 | -56.10 | 620.85 | 0.00 |
| 620.25 | -55.05 | 620.85 | 0.00 |
| 620.30 | -53.83 | 620.85 | 0.00 |
| 620.35 | -52.42 | 620.85 | 0.00 |
| 620.40 | -50.82 | 620.85 | 0.00 |
| 620.45 | -49.00 | 620.85 | 0.00 |
| 620.50 | -46.94 | 620.85 | 0.00 |
| 620.55 | -44.58 | 620.85 | 0.00 |
| 620.60 | -41.88 | 620.85 | 0.00 |
| 620.65 | -38.71 | 620.85 | 0.00 |
| 620.70 | -34.89 | 620.85 | 0.00 |
| 620.75 | -30.05 | 620.85 | 0.00 |
| 620.80 | -23.16 | 620.85 | 0.00 |
| 620.85 | 0.00 | 620.85 | 0.00 |
| 620.90 | 24.78 | 620.85 | 0.00 |
| 620.95 | 34.31 | 620.85 | 0.00 |
| 621.00 | 42.39 | 620.85 | 0.00 |
| 621.05 | 49.92 | 620.85 | 0.00 |
| 621.10 | 57.20 | 620.85 | 0.00 |
| 621.15 | 64.37 | 620.85 | 0.00 |
| 621.20 | 71.52 | 620.85 | 0.00 |
| 621.25 | 78.68 | 620.85 | 0.00 |
| 621.30 | 85.88 | 620.85 | 0.00 |
| 621.35 | 93.15 | 620.85 | 0.00 |
| 621.40 | 100.49 | 620.85 | 0.00 |
| 621.45 | 107.92 | 620.85 | 0.00 |
| 621.50 | 115.44 | 620.85 | 0.00 |
| 621.55 | 123.06 | 620.85 | 0.00 |
| 621.60 | 130.77 | 620.85 | 0.00 |
| 621.65 | 138.59 | 620.85 | 0.00 |
| 621.70 | 146.50 | 620.85 | 0.00 |
| 621.75 | 154.52 | 620.85 | 0.00 |
| 621.80 | 162.64 | 620.85 | 0.00 |
| 621.85 | 170.86 | 620.85 | 0.00 |
| 621.90 | 179.18 | 620.85 | 0.00 |
| 621.95 | 187.61 | 620.85 | 0.00 |
| 622.00 | 196.14 | 620.85 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -63.48 | 620.90 | 0.00 |
| 618.05 | -63.48 | 620.90 | 0.00 |
| 618.10 | -63.48 | 620.90 | 0.00 |
| 618.15 | -63.48 | 620.90 | 0.00 |
| 618.20 | -63.48 | 620.90 | 0.00 |
| 618.25 | -63.48 | 620.90 | 0.00 |
| 618.30 | -63.48 | 620.90 | 0.00 |
| 618.35 | -63.48 | 620.90 | 0.00 |
| 618.40 | -63.48 | 620.90 | 0.00 |
| 618.45 | -63.48 | 620.90 | 0.00 |
| 618.50 | -63.48 | 620.90 | 0.00 |
| 618.55 | -63.48 | 620.90 | 0.00 |
| 618.60 | -63.48 | 620.90 | 0.00 |
| 618.65 | -63.48 | 620.90 | 0.00 |
| 618.70 | -63.48 | 620.90 | 0.00 |
| 618.75 | -63.48 | 620.90 | 0.00 |
| 618.80 | -63.48 | 620.90 | 0.00 |
| 618.85 | -63.48 | 620.90 | 0.00 |
| 618.90 | -63.48 | 620.90 | 0.00 |
| 618.95 | -63.48 | 620.90 | 0.00 |
| 619.00 | -63.48 | 620.90 | 0.00 |
| 619.05 | -63.48 | 620.90 | 0.00 |
| 619.10 | -63.48 | 620.90 | 0.00 |
| 619.15 | -63.48 | 620.90 | 0.00 |
| 619.20 | -63.48 | 620.90 | 0.00 |
| 619.25 | -63.48 | 620.90 | 0.00 |
| 619.30 | -63.48 | 620.90 | 0.00 |
| 619.35 | -63.48 | 620.90 | 0.00 |
| 619.40 | -63.48 | 620.90 | 0.00 |
| 619.45 | -63.48 | 620.90 | 0.00 |
| 619.50 | -63.48 | 620.90 | 0.00 |
| 619.55 | -63.48 | 620.90 | 0.00 |
| 619.60 | -63.48 | 620.90 | 0.00 |
| 619.65 | -63.48 | 620.90 | 0.00 |
| 619.70 | -63.48 | 620.90 | 0.00 |
| 619.75 | -63.48 | 620.90 | 0.00 |
| 619.80 | -63.48 | 620.90 | 0.00 |
| 619.85 | -63.48 | 620.90 | 0.00 |
| 619.90 | -63.48 | 620.90 | 0.00 |
| 619.95 | -63.48 | 620.90 | 0.00 |
| 620.00 | -63.48 | 620.90 | 0.00 |
| 620.05 | -63.48 | 620.90 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -63.13 | 620.90 | 0.00 |
| 620.15 | -62.48 | 620.90 | 0.00 |
| 620.20 | -61.62 | 620.90 | 0.00 |
| 620.25 | -60.58 | 620.90 | 0.00 |
| 620.30 | -59.37 | 620.90 | 0.00 |
| 620.35 | -57.98 | 620.90 | 0.00 |
| 620.40 | -56.40 | 620.90 | 0.00 |
| 620.45 | -54.63 | 620.90 | 0.00 |
| 620.50 | -52.64 | 620.90 | 0.00 |
| 620.55 | -50.39 | 620.90 | 0.00 |
| 620.60 | -47.83 | 620.90 | 0.00 |
| 620.65 | -44.90 | 620.90 | 0.00 |
| 620.70 | -41.48 | 620.90 | 0.00 |
| 620.75 | -37.38 | 620.90 | 0.00 |
| 620.80 | -32.17 | 620.90 | 0.00 |
| 620.85 | -24.78 | 620.90 | 0.00 |
| 620.90 | 0.00 | 620.90 | 0.00 |
| 620.95 | 26.42 | 620.90 | 0.00 |
| 621.00 | 36.47 | 620.90 | 0.00 |
| 621.05 | 44.93 | 620.90 | 0.00 |
| 621.10 | 52.77 | 620.90 | 0.00 |
| 621.15 | 60.32 | 620.90 | 0.00 |
| 621.20 | 67.73 | 620.90 | 0.00 |
| 621.25 | 75.10 | 620.90 | 0.00 |
| 621.30 | 82.47 | 620.90 | 0.00 |
| 621.35 | 89.87 | 620.90 | 0.00 |
| 621.40 | 97.32 | 620.90 | 0.00 |
| 621.45 | 104.85 | 620.90 | 0.00 |
| 621.50 | 112.44 | 620.90 | 0.00 |
| 621.55 | 120.13 | 620.90 | 0.00 |
| 621.60 | 127.90 | 620.90 | 0.00 |
| 621.65 | 135.76 | 620.90 | 0.00 |
| 621.70 | 143.72 | 620.90 | 0.00 |
| 621.75 | 151.78 | 620.90 | 0.00 |
| 621.80 | 159.94 | 620.90 | 0.00 |
| 621.85 | 168.19 | 620.90 | 0.00 |
| 621.90 | 176.54 | 620.90 | 0.00 |
| 621.95 | 185.00 | 620.90 | 0.00 |
| 622.00 | 193.55 | 620.90 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -69.16 | 620.95 | 0.00 |
| 618.05 | -69.16 | 620.95 | 0.00 |
| 618.10 | -69.16 | 620.95 | 0.00 |
| 618.15 | -69.16 | 620.95 | 0.00 |
| 618.20 | -69.16 | 620.95 | 0.00 |
| 618.25 | -69.16 | 620.95 | 0.00 |
| 618.30 | -69.16 | 620.95 | 0.00 |
| 618.35 | -69.16 | 620.95 | 0.00 |
| 618.40 | -69.16 | 620.95 | 0.00 |
| 618.45 | -69.16 | 620.95 | 0.00 |
| 618.50 | -69.16 | 620.95 | 0.00 |
| 618.55 | -69.16 | 620.95 | 0.00 |
| 618.60 | -69.16 | 620.95 | 0.00 |
| 618.65 | -69.16 | 620.95 | 0.00 |
| 618.70 | -69.16 | 620.95 | 0.00 |
| 618.75 | -69.16 | 620.95 | 0.00 |
| 618.80 | -69.16 | 620.95 | 0.00 |
| 618.85 | -69.16 | 620.95 | 0.00 |
| 618.90 | -69.16 | 620.95 | 0.00 |
| 618.95 | -69.16 | 620.95 | 0.00 |
| 619.00 | -69.16 | 620.95 | 0.00 |
| 619.05 | -69.16 | 620.95 | 0.00 |
| 619.10 | -69.16 | 620.95 | 0.00 |
| 619.15 | -69.16 | 620.95 | 0.00 |
| 619.20 | -69.16 | 620.95 | 0.00 |
| 619.25 | -69.16 | 620.95 | 0.00 |
| 619.30 | -69.16 | 620.95 | 0.00 |
| 619.35 | -69.16 | 620.95 | 0.00 |
| 619.40 | -69.16 | 620.95 | 0.00 |
| 619.45 | -69.16 | 620.95 | 0.00 |
| 619.50 | -69.16 | 620.95 | 0.00 |
| 619.55 | -69.16 | 620.95 | 0.00 |
| 619.60 | -69.16 | 620.95 | 0.00 |
| 619.65 | -69.16 | 620.95 | 0.00 |
| 619.70 | -69.16 | 620.95 | 0.00 |
| 619.75 | -69.16 | 620.95 | 0.00 |
| 619.80 | -69.16 | 620.95 | 0.00 |
| 619.85 | -69.16 | 620.95 | 0.00 |
| 619.90 | -69.16 | 620.95 | 0.00 |
| 619.95 | -69.16 | 620.95 | 0.00 |
| 620.00 | -69.16 | 620.95 | 0.00 |
| 620.05 | -69.16 | 620.95 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -68.81 | 620.95 | 0.00 |
| 620.15 | -68.16 | 620.95 | 0.00 |
| 620.20 | -67.31 | 620.95 | 0.00 |
| 620.25 | -66.27 | 620.95 | 0.00 |
| 620.30 | -65.07 | 620.95 | 0.00 |
| 620.35 | -63.70 | 620.95 | 0.00 |
| 620.40 | -62.15 | 620.95 | 0.00 |
| 620.45 | -60.41 | 620.95 | 0.00 |
| 620.50 | -58.47 | 620.95 | 0.00 |
| 620.55 | -56.29 | 620.95 | 0.00 |
| 620.60 | -53.86 | 620.95 | 0.00 |
| 620.65 | -51.10 | 620.95 | 0.00 |
| 620.70 | -47.95 | 620.95 | 0.00 |
| 620.75 | -44.28 | 620.95 | 0.00 |
| 620.80 | -39.88 | 620.95 | 0.00 |
| 620.85 | -34.31 | 620.95 | 0.00 |
| 620.90 | -26.42 | 620.95 | 0.00 |
| 620.95 | 0.00 | 620.95 | 0.00 |
| 621.00 | 28.07 | 620.95 | 0.00 |
| 621.05 | 38.63 | 620.95 | 0.00 |
| 621.10 | 47.47 | 620.95 | 0.00 |
| 621.15 | 55.63 | 620.95 | 0.00 |
| 621.20 | 63.45 | 620.95 | 0.00 |
| 621.25 | 71.11 | 620.95 | 0.00 |
| 621.30 | 78.71 | 620.95 | 0.00 |
| 621.35 | 86.28 | 620.95 | 0.00 |
| 621.40 | 93.88 | 620.95 | 0.00 |
| 621.45 | 101.52 | 620.95 | 0.00 |
| 621.50 | 109.21 | 620.95 | 0.00 |
| 621.55 | 116.98 | 620.95 | 0.00 |
| 621.60 | 124.82 | 620.95 | 0.00 |
| 621.65 | 132.75 | 620.95 | 0.00 |
| 621.70 | 140.77 | 620.95 | 0.00 |
| 621.75 | 148.87 | 620.95 | 0.00 |
| 621.80 | 157.07 | 620.95 | 0.00 |
| 621.85 | 165.37 | 620.95 | 0.00 |
| 621.90 | 173.76 | 620.95 | 0.00 |
| 621.95 | 182.24 | 620.95 | 0.00 |
| 622.00 | 190.82 | 620.95 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -75.00 | 621.00 | 0.00 |
| 618.05 | -75.00 | 621.00 | 0.00 |
| 618.10 | -75.00 | 621.00 | 0.00 |
| 618.15 | -75.00 | 621.00 | 0.00 |
| 618.20 | -75.00 | 621.00 | 0.00 |
| 618.25 | -75.00 | 621.00 | 0.00 |
| 618.30 | -75.00 | 621.00 | 0.00 |
| 618.35 | -75.00 | 621.00 | 0.00 |
| 618.40 | -75.00 | 621.00 | 0.00 |
| 618.45 | -75.00 | 621.00 | 0.00 |
| 618.50 | -75.00 | 621.00 | 0.00 |
| 618.55 | -75.00 | 621.00 | 0.00 |
| 618.60 | -75.00 | 621.00 | 0.00 |
| 618.65 | -75.00 | 621.00 | 0.00 |
| 618.70 | -75.00 | 621.00 | 0.00 |
| 618.75 | -75.00 | 621.00 | 0.00 |
| 618.80 | -75.00 | 621.00 | 0.00 |
| 618.85 | -75.00 | 621.00 | 0.00 |
| 618.90 | -75.00 | 621.00 | 0.00 |
| 618.95 | -75.00 | 621.00 | 0.00 |
| 619.00 | -75.00 | 621.00 | 0.00 |
| 619.05 | -75.00 | 621.00 | 0.00 |
| 619.10 | -75.00 | 621.00 | 0.00 |
| 619.15 | -75.00 | 621.00 | 0.00 |
| 619.20 | -75.00 | 621.00 | 0.00 |
| 619.25 | -75.00 | 621.00 | 0.00 |
| 619.30 | -75.00 | 621.00 | 0.00 |
| 619.35 | -75.00 | 621.00 | 0.00 |
| 619.40 | -75.00 | 621.00 | 0.00 |
| 619.45 | -75.00 | 621.00 | 0.00 |
| 619.50 | -75.00 | 621.00 | 0.00 |
| 619.55 | -75.00 | 621.00 | 0.00 |
| 619.60 | -75.00 | 621.00 | 0.00 |
| 619.65 | -75.00 | 621.00 | 0.00 |
| 619.70 | -75.00 | 621.00 | 0.00 |
| 619.75 | -75.00 | 621.00 | 0.00 |
| 619.80 | -75.00 | 621.00 | 0.00 |
| 619.85 | -75.00 | 621.00 | 0.00 |
| 619.90 | -75.00 | 621.00 | 0.00 |
| 619.95 | -75.00 | 621.00 | 0.00 |
| 620.00 | -75.00 | 621.00 | 0.00 |
| 620.05 | -75.00 | 621.00 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -74.65 | 621.00 | 0.00 |
| 620.15 | -74.00 | 621.00 | 0.00 |
| 620.20 | -73.15 | 621.00 | 0.00 |
| 620.25 | -72.12 | 621.00 | 0.00 |
| 620.30 | -70.93 | 621.00 | 0.00 |
| 620.35 | -69.57 | 621.00 | 0.00 |
| 620.40 | -68.04 | 621.00 | 0.00 |
| 620.45 | -66.33 | 621.00 | 0.00 |
| 620.50 | -64.43 | 621.00 | 0.00 |
| 620.55 | -62.32 | 621.00 | 0.00 |
| 620.60 | -59.97 | 621.00 | 0.00 |
| 620.65 | -57.35 | 621.00 | 0.00 |
| 620.70 | -54.39 | 621.00 | 0.00 |
| 620.75 | -51.01 | 621.00 | 0.00 |
| 620.80 | -47.09 | 621.00 | 0.00 |
| 620.85 | -42.39 | 621.00 | 0.00 |
| 620.90 | -36.47 | 621.00 | 0.00 |
| 620.95 | -28.07 | 621.00 | 0.00 |
| 621.00 | 0.00 | 621.00 | 0.00 |
| 621.05 | 29.73 | 621.00 | 0.00 |
| 621.10 | 40.81 | 621.00 | 0.00 |
| 621.15 | 50.04 | 621.00 | 0.00 |
| 621.20 | 58.50 | 621.00 | 0.00 |
| 621.25 | 66.60 | 621.00 | 0.00 |
| 621.30 | 74.51 | 621.00 | 0.00 |
| 621.35 | 82.33 | 621.00 | 0.00 |
| 621.40 | 90.11 | 621.00 | 0.00 |
| 621.45 | 97.90 | 621.00 | 0.00 |
| 621.50 | 105.73 | 621.00 | 0.00 |
| 621.55 | 113.60 | 621.00 | 0.00 |
| 621.60 | 121.53 | 621.00 | 0.00 |
| 621.65 | 129.54 | 621.00 | 0.00 |
| 621.70 | 137.62 | 621.00 | 0.00 |
| 621.75 | 145.79 | 621.00 | 0.00 |
| 621.80 | 154.04 | 621.00 | 0.00 |
| 621.85 | 162.38 | 621.00 | 0.00 |
| 621.90 | 170.81 | 621.00 | 0.00 |
| 621.95 | 179.34 | 621.00 | 0.00 |
| 622.00 | 187.95 | 621.00 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -81.00 | 621.05 | 0.00 |
| 618.05 | -81.00 | 621.05 | 0.00 |
| 618.10 | -81.00 | 621.05 | 0.00 |
| 618.15 | -81.00 | 621.05 | 0.00 |
| 618.20 | -81.00 | 621.05 | 0.00 |
| 618.25 | -81.00 | 621.05 | 0.00 |
| 618.30 | -81.00 | 621.05 | 0.00 |
| 618.35 | -81.00 | 621.05 | 0.00 |
| 618.40 | -81.00 | 621.05 | 0.00 |
| 618.45 | -81.00 | 621.05 | 0.00 |
| 618.50 | -81.00 | 621.05 | 0.00 |
| 618.55 | -81.00 | 621.05 | 0.00 |
| 618.60 | -81.00 | 621.05 | 0.00 |
| 618.65 | -81.00 | 621.05 | 0.00 |
| 618.70 | -81.00 | 621.05 | 0.00 |
| 618.75 | -81.00 | 621.05 | 0.00 |
| 618.80 | -81.00 | 621.05 | 0.00 |
| 618.85 | -81.00 | 621.05 | 0.00 |
| 618.90 | -81.00 | 621.05 | 0.00 |
| 618.95 | -81.00 | 621.05 | 0.00 |
| 619.00 | -81.00 | 621.05 | 0.00 |
| 619.05 | -81.00 | 621.05 | 0.00 |
| 619.10 | -81.00 | 621.05 | 0.00 |
| 619.15 | -81.00 | 621.05 | 0.00 |
| 619.20 | -81.00 | 621.05 | 0.00 |
| 619.25 | -81.00 | 621.05 | 0.00 |
| 619.30 | -81.00 | 621.05 | 0.00 |
| 619.35 | -81.00 | 621.05 | 0.00 |
| 619.40 | -81.00 | 621.05 | 0.00 |
| 619.45 | -81.00 | 621.05 | 0.00 |
| 619.50 | -81.00 | 621.05 | 0.00 |
| 619.55 | -81.00 | 621.05 | 0.00 |
| 619.60 | -81.00 | 621.05 | 0.00 |
| 619.65 | -81.00 | 621.05 | 0.00 |
| 619.70 | -81.00 | 621.05 | 0.00 |
| 619.75 | -81.00 | 621.05 | 0.00 |
| 619.80 | -81.00 | 621.05 | 0.00 |
| 619.85 | -81.00 | 621.05 | 0.00 |
| 619.90 | -81.00 | 621.05 | 0.00 |
| 619.95 | -81.00 | 621.05 | 0.00 |
| 620.00 | -81.00 | 621.05 | 0.00 |
| 620.05 | -81.00 | 621.05 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -80.65 | 621.05 | 0.00 |
| 620.15 | -80.00 | 621.05 | 0.00 |
| 620.20 | -79.15 | 621.05 | 0.00 |
| 620.25 | -78.13 | 621.05 | 0.00 |
| 620.30 | -76.94 | 621.05 | 0.00 |
| 620.35 | -75.59 | 621.05 | 0.00 |
| 620.40 | -74.08 | 621.05 | 0.00 |
| 620.45 | -72.40 | 621.05 | 0.00 |
| 620.50 | -70.53 | 621.05 | 0.00 |
| 620.55 | -68.48 | 621.05 | 0.00 |
| 620.60 | -66.20 | 621.05 | 0.00 |
| 620.65 | -63.68 | 621.05 | 0.00 |
| 620.70 | -60.86 | 621.05 | 0.00 |
| 620.75 | -57.70 | 621.05 | 0.00 |
| 620.80 | -54.10 | 621.05 | 0.00 |
| 620.85 | -49.92 | 621.05 | 0.00 |
| 620.90 | -44.93 | 621.05 | 0.00 |
| 620.95 | -38.63 | 621.05 | 0.00 |
| 621.00 | -29.73 | 621.05 | 0.00 |
| 621.05 | 0.00 | 621.05 | 0.00 |
| 621.10 | 31.40 | 621.05 | 0.00 |
| 621.15 | 43.01 | 621.05 | 0.00 |
| 621.20 | 52.61 | 621.05 | 0.00 |
| 621.25 | 61.39 | 621.05 | 0.00 |
| 621.30 | 69.77 | 621.05 | 0.00 |
| 621.35 | 77.92 | 621.05 | 0.00 |
| 621.40 | 85.96 | 621.05 | 0.00 |
| 621.45 | 93.96 | 621.05 | 0.00 |
| 621.50 | 101.94 | 621.05 | 0.00 |
| 621.55 | 109.95 | 621.05 | 0.00 |
| 621.60 | 118.00 | 621.05 | 0.00 |
| 621.65 | 126.10 | 621.05 | 0.00 |
| 621.70 | 134.27 | 621.05 | 0.00 |
| 621.75 | 142.51 | 621.05 | 0.00 |
| 621.80 | 150.83 | 621.05 | 0.00 |
| 621.85 | 159.22 | 621.05 | 0.00 |
| 621.90 | 167.71 | 621.05 | 0.00 |
| 621.95 | 176.28 | 621.05 | 0.00 |
| 622.00 | 184.93 | 621.05 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -87.15 | 621.10 | 0.00 |
| 618.05 | -87.15 | 621.10 | 0.00 |
| 618.10 | -87.15 | 621.10 | 0.00 |
| 618.15 | -87.15 | 621.10 | 0.00 |
| 618.20 | -87.15 | 621.10 | 0.00 |
| 618.25 | -87.15 | 621.10 | 0.00 |
| 618.30 | -87.15 | 621.10 | 0.00 |
| 618.35 | -87.15 | 621.10 | 0.00 |
| 618.40 | -87.15 | 621.10 | 0.00 |
| 618.45 | -87.15 | 621.10 | 0.00 |
| 618.50 | -87.15 | 621.10 | 0.00 |
| 618.55 | -87.15 | 621.10 | 0.00 |
| 618.60 | -87.15 | 621.10 | 0.00 |
| 618.65 | -87.15 | 621.10 | 0.00 |
| 618.70 | -87.15 | 621.10 | 0.00 |
| 618.75 | -87.15 | 621.10 | 0.00 |
| 618.80 | -87.15 | 621.10 | 0.00 |
| 618.85 | -87.15 | 621.10 | 0.00 |
| 618.90 | -87.15 | 621.10 | 0.00 |
| 618.95 | -87.15 | 621.10 | 0.00 |
| 619.00 | -87.15 | 621.10 | 0.00 |
| 619.05 | -87.15 | 621.10 | 0.00 |
| 619.10 | -87.15 | 621.10 | 0.00 |
| 619.15 | -87.15 | 621.10 | 0.00 |
| 619.20 | -87.15 | 621.10 | 0.00 |
| 619.25 | -87.15 | 621.10 | 0.00 |
| 619.30 | -87.15 | 621.10 | 0.00 |
| 619.35 | -87.15 | 621.10 | 0.00 |
| 619.40 | -87.15 | 621.10 | 0.00 |
| 619.45 | -87.15 | 621.10 | 0.00 |
| 619.50 | -87.15 | 621.10 | 0.00 |
| 619.55 | -87.15 | 621.10 | 0.00 |
| 619.60 | -87.15 | 621.10 | 0.00 |
| 619.65 | -87.15 | 621.10 | 0.00 |
| 619.70 | -87.15 | 621.10 | 0.00 |
| 619.75 | -87.15 | 621.10 | 0.00 |
| 619.80 | -87.15 | 621.10 | 0.00 |
| 619.85 | -87.15 | 621.10 | 0.00 |
| 619.90 | -87.15 | 621.10 | 0.00 |
| 619.95 | -87.15 | 621.10 | 0.00 |
| 620.00 | -87.15 | 621.10 | 0.00 |
| 620.05 | -87.15 | 621.10 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -86.80 | 621.10 | 0.00 |
| 620.15 | -86.16 | 621.10 | 0.00 |
| 620.20 | -85.31 | 621.10 | 0.00 |
| 620.25 | -84.29 | 621.10 | 0.00 |
| 620.30 | -83.10 | 621.10 | 0.00 |
| 620.35 | -81.76 | 621.10 | 0.00 |
| 620.40 | -80.27 | 621.10 | 0.00 |
| 620.45 | -78.61 | 621.10 | 0.00 |
| 620.50 | -76.77 | 621.10 | 0.00 |
| 620.55 | -74.76 | 621.10 | 0.00 |
| 620.60 | -72.54 | 621.10 | 0.00 |
| 620.65 | -70.10 | 621.10 | 0.00 |
| 620.70 | -67.40 | 621.10 | 0.00 |
| 620.75 | -64.39 | 621.10 | 0.00 |
| 620.80 | -61.03 | 621.10 | 0.00 |
| 620.85 | -57.20 | 621.10 | 0.00 |
| 620.90 | -52.77 | 621.10 | 0.00 |
| 620.95 | -47.47 | 621.10 | 0.00 |
| 621.00 | -40.81 | 621.10 | 0.00 |
| 621.05 | -31.40 | 621.10 | 0.00 |
| 621.10 | 0.00 | 621.10 | 0.00 |
| 621.15 | 33.08 | 621.10 | 0.00 |
| 621.20 | 45.21 | 621.10 | 0.00 |
| 621.25 | 55.20 | 621.10 | 0.00 |
| 621.30 | 64.30 | 621.10 | 0.00 |
| 621.35 | 72.95 | 621.10 | 0.00 |
| 621.40 | 81.35 | 621.10 | 0.00 |
| 621.45 | 89.61 | 621.10 | 0.00 |
| 621.50 | 97.82 | 621.10 | 0.00 |
| 621.55 | 106.00 | 621.10 | 0.00 |
| 621.60 | 114.19 | 621.10 | 0.00 |
| 621.65 | 122.42 | 621.10 | 0.00 |
| 621.70 | 130.69 | 621.10 | 0.00 |
| 621.75 | 139.02 | 621.10 | 0.00 |
| 621.80 | 147.41 | 621.10 | 0.00 |
| 621.85 | 155.88 | 621.10 | 0.00 |
| 621.90 | 164.42 | 621.10 | 0.00 |
| 621.95 | 173.05 | 621.10 | 0.00 |
| 622.00 | 181.75 | 621.10 | 0.00 |

Contributing Structures

| |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -93.45 | 621.15 | 0.00 |
| 618.05 | -93.45 | 621.15 | 0.00 |
| 618.10 | -93.45 | 621.15 | 0.00 |
| 618.15 | -93.45 | 621.15 | 0.00 |
| 618.20 | -93.45 | 621.15 | 0.00 |
| 618.25 | -93.45 | 621.15 | 0.00 |
| 618.30 | -93.45 | 621.15 | 0.00 |
| 618.35 | -93.45 | 621.15 | 0.00 |
| 618.40 | -93.45 | 621.15 | 0.00 |
| 618.45 | -93.45 | 621.15 | 0.00 |
| 618.50 | -93.45 | 621.15 | 0.00 |
| 618.55 | -93.45 | 621.15 | 0.00 |
| 618.60 | -93.45 | 621.15 | 0.00 |
| 618.65 | -93.45 | 621.15 | 0.00 |
| 618.70 | -93.45 | 621.15 | 0.00 |
| 618.75 | -93.45 | 621.15 | 0.00 |
| 618.80 | -93.45 | 621.15 | 0.00 |
| 618.85 | -93.45 | 621.15 | 0.00 |
| 618.90 | -93.45 | 621.15 | 0.00 |
| 618.95 | -93.45 | 621.15 | 0.00 |
| 619.00 | -93.45 | 621.15 | 0.00 |
| 619.05 | -93.45 | 621.15 | 0.00 |
| 619.10 | -93.45 | 621.15 | 0.00 |
| 619.15 | -93.45 | 621.15 | 0.00 |
| 619.20 | -93.45 | 621.15 | 0.00 |
| 619.25 | -93.45 | 621.15 | 0.00 |
| 619.30 | -93.45 | 621.15 | 0.00 |
| 619.35 | -93.45 | 621.15 | 0.00 |
| 619.40 | -93.45 | 621.15 | 0.00 |
| 619.45 | -93.45 | 621.15 | 0.00 |
| 619.50 | -93.45 | 621.15 | 0.00 |
| 619.55 | -93.45 | 621.15 | 0.00 |
| 619.60 | -93.45 | 621.15 | 0.00 |
| 619.65 | -93.45 | 621.15 | 0.00 |
| 619.70 | -93.45 | 621.15 | 0.00 |
| 619.75 | -93.45 | 621.15 | 0.00 |
| 619.80 | -93.45 | 621.15 | 0.00 |
| 619.85 | -93.45 | 621.15 | 0.00 |
| 619.90 | -93.45 | 621.15 | 0.00 |
| 619.95 | -93.45 | 621.15 | 0.00 |
| 620.00 | -93.45 | 621.15 | 0.00 |
| 620.05 | -93.45 | 621.15 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -93.10 | 621.15 | 0.00 |
| 620.15 | -92.45 | 621.15 | 0.00 |
| 620.20 | -91.61 | 621.15 | 0.00 |
| 620.25 | -90.59 | 621.15 | 0.00 |
| 620.30 | -89.41 | 621.15 | 0.00 |
| 620.35 | -88.08 | 621.15 | 0.00 |
| 620.40 | -86.60 | 621.15 | 0.00 |
| 620.45 | -84.95 | 621.15 | 0.00 |
| 620.50 | -83.15 | 621.15 | 0.00 |
| 620.55 | -81.17 | 621.15 | 0.00 |
| 620.60 | -79.00 | 621.15 | 0.00 |
| 620.65 | -76.62 | 621.15 | 0.00 |
| 620.70 | -74.02 | 621.15 | 0.00 |
| 620.75 | -71.14 | 621.15 | 0.00 |
| 620.80 | -67.95 | 621.15 | 0.00 |
| 620.85 | -64.37 | 621.15 | 0.00 |
| 620.90 | -60.32 | 621.15 | 0.00 |
| 620.95 | -55.63 | 621.15 | 0.00 |
| 621.00 | -50.04 | 621.15 | 0.00 |
| 621.05 | -43.01 | 621.15 | 0.00 |
| 621.10 | -33.08 | 621.15 | 0.00 |
| 621.15 | 0.00 | 621.15 | 0.00 |
| 621.20 | 34.77 | 621.15 | 0.00 |
| 621.25 | 47.42 | 621.15 | 0.00 |
| 621.30 | 57.80 | 621.15 | 0.00 |
| 621.35 | 67.22 | 621.15 | 0.00 |
| 621.40 | 76.14 | 621.15 | 0.00 |
| 621.45 | 84.79 | 621.15 | 0.00 |
| 621.50 | 93.28 | 621.15 | 0.00 |
| 621.55 | 101.69 | 621.15 | 0.00 |
| 621.60 | 110.07 | 621.15 | 0.00 |
| 621.65 | 118.45 | 621.15 | 0.00 |
| 621.70 | 126.85 | 621.15 | 0.00 |
| 621.75 | 135.29 | 621.15 | 0.00 |
| 621.80 | 143.78 | 621.15 | 0.00 |
| 621.85 | 152.33 | 621.15 | 0.00 |
| 621.90 | 160.95 | 621.15 | 0.00 |
| 621.95 | 169.63 | 621.15 | 0.00 |
| 622.00 | 178.40 | 621.15 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -99.89 | 621.20 | 0.00 |
| 618.05 | -99.89 | 621.20 | 0.00 |
| 618.10 | -99.89 | 621.20 | 0.00 |
| 618.15 | -99.89 | 621.20 | 0.00 |
| 618.20 | -99.89 | 621.20 | 0.00 |
| 618.25 | -99.89 | 621.20 | 0.00 |
| 618.30 | -99.89 | 621.20 | 0.00 |
| 618.35 | -99.89 | 621.20 | 0.00 |
| 618.40 | -99.89 | 621.20 | 0.00 |
| 618.45 | -99.89 | 621.20 | 0.00 |
| 618.50 | -99.89 | 621.20 | 0.00 |
| 618.55 | -99.89 | 621.20 | 0.00 |
| 618.60 | -99.89 | 621.20 | 0.00 |
| 618.65 | -99.89 | 621.20 | 0.00 |
| 618.70 | -99.89 | 621.20 | 0.00 |
| 618.75 | -99.89 | 621.20 | 0.00 |
| 618.80 | -99.89 | 621.20 | 0.00 |
| 618.85 | -99.89 | 621.20 | 0.00 |
| 618.90 | -99.89 | 621.20 | 0.00 |
| 618.95 | -99.89 | 621.20 | 0.00 |
| 619.00 | -99.89 | 621.20 | 0.00 |
| 619.05 | -99.89 | 621.20 | 0.00 |
| 619.10 | -99.89 | 621.20 | 0.00 |
| 619.15 | -99.89 | 621.20 | 0.00 |
| 619.20 | -99.89 | 621.20 | 0.00 |
| 619.25 | -99.89 | 621.20 | 0.00 |
| 619.30 | -99.89 | 621.20 | 0.00 |
| 619.35 | -99.89 | 621.20 | 0.00 |
| 619.40 | -99.89 | 621.20 | 0.00 |
| 619.45 | -99.89 | 621.20 | 0.00 |
| 619.50 | -99.89 | 621.20 | 0.00 |
| 619.55 | -99.89 | 621.20 | 0.00 |
| 619.60 | -99.89 | 621.20 | 0.00 |
| 619.65 | -99.89 | 621.20 | 0.00 |
| 619.70 | -99.89 | 621.20 | 0.00 |
| 619.75 | -99.89 | 621.20 | 0.00 |
| 619.80 | -99.89 | 621.20 | 0.00 |
| 619.85 | -99.89 | 621.20 | 0.00 |
| 619.90 | -99.89 | 621.20 | 0.00 |
| 619.95 | -99.89 | 621.20 | 0.00 |
| 620.00 | -99.89 | 621.20 | 0.00 |
| 620.05 | -99.89 | 621.20 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -99.54 | 621.20 | 0.00 |
| 620.15 | -98.90 | 621.20 | 0.00 |
| 620.20 | -98.05 | 621.20 | 0.00 |
| 620.25 | -97.04 | 621.20 | 0.00 |
| 620.30 | -95.87 | 621.20 | 0.00 |
| 620.35 | -94.54 | 621.20 | 0.00 |
| 620.40 | -93.07 | 621.20 | 0.00 |
| 620.45 | -91.44 | 621.20 | 0.00 |
| 620.50 | -89.66 | 621.20 | 0.00 |
| 620.55 | -87.71 | 621.20 | 0.00 |
| 620.60 | -85.58 | 621.20 | 0.00 |
| 620.65 | -83.26 | 621.20 | 0.00 |
| 620.70 | -80.73 | 621.20 | 0.00 |
| 620.75 | -77.95 | 621.20 | 0.00 |
| 620.80 | -74.90 | 621.20 | 0.00 |
| 620.85 | -71.52 | 621.20 | 0.00 |
| 620.90 | -67.73 | 621.20 | 0.00 |
| 620.95 | -63.45 | 621.20 | 0.00 |
| 621.00 | -58.50 | 621.20 | 0.00 |
| 621.05 | -52.61 | 621.20 | 0.00 |
| 621.10 | -45.21 | 621.20 | 0.00 |
| 621.15 | -34.77 | 621.20 | 0.00 |
| 621.20 | 0.00 | 621.20 | 0.00 |
| 621.25 | 36.47 | 621.20 | 0.00 |
| 621.30 | 49.65 | 621.20 | 0.00 |
| 621.35 | 60.41 | 621.20 | 0.00 |
| 621.40 | 70.15 | 621.20 | 0.00 |
| 621.45 | 79.35 | 621.20 | 0.00 |
| 621.50 | 88.24 | 621.20 | 0.00 |
| 621.55 | 96.96 | 621.20 | 0.00 |
| 621.60 | 105.58 | 621.20 | 0.00 |
| 621.65 | 114.16 | 621.20 | 0.00 |
| 621.70 | 122.72 | 621.20 | 0.00 |
| 621.75 | 131.30 | 621.20 | 0.00 |
| 621.80 | 139.91 | 621.20 | 0.00 |
| 621.85 | 148.56 | 621.20 | 0.00 |
| 621.90 | 157.26 | 621.20 | 0.00 |
| 621.95 | 166.03 | 621.20 | 0.00 |
| 622.00 | 174.86 | 621.20 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -106.48 | 621.25 | 0.00 |
| 618.05 | -106.48 | 621.25 | 0.00 |
| 618.10 | -106.48 | 621.25 | 0.00 |
| 618.15 | -106.48 | 621.25 | 0.00 |
| 618.20 | -106.48 | 621.25 | 0.00 |
| 618.25 | -106.48 | 621.25 | 0.00 |
| 618.30 | -106.48 | 621.25 | 0.00 |
| 618.35 | -106.48 | 621.25 | 0.00 |
| 618.40 | -106.48 | 621.25 | 0.00 |
| 618.45 | -106.48 | 621.25 | 0.00 |
| 618.50 | -106.48 | 621.25 | 0.00 |
| 618.55 | -106.48 | 621.25 | 0.00 |
| 618.60 | -106.48 | 621.25 | 0.00 |
| 618.65 | -106.48 | 621.25 | 0.00 |
| 618.70 | -106.48 | 621.25 | 0.00 |
| 618.75 | -106.48 | 621.25 | 0.00 |
| 618.80 | -106.48 | 621.25 | 0.00 |
| 618.85 | -106.48 | 621.25 | 0.00 |
| 618.90 | -106.48 | 621.25 | 0.00 |
| 618.95 | -106.48 | 621.25 | 0.00 |
| 619.00 | -106.48 | 621.25 | 0.00 |
| 619.05 | -106.48 | 621.25 | 0.00 |
| 619.10 | -106.48 | 621.25 | 0.00 |
| 619.15 | -106.48 | 621.25 | 0.00 |
| 619.20 | -106.48 | 621.25 | 0.00 |
| 619.25 | -106.48 | 621.25 | 0.00 |
| 619.30 | -106.48 | 621.25 | 0.00 |
| 619.35 | -106.48 | 621.25 | 0.00 |
| 619.40 | -106.48 | 621.25 | 0.00 |
| 619.45 | -106.48 | 621.25 | 0.00 |
| 619.50 | -106.48 | 621.25 | 0.00 |
| 619.55 | -106.48 | 621.25 | 0.00 |
| 619.60 | -106.48 | 621.25 | 0.00 |
| 619.65 | -106.48 | 621.25 | 0.00 |
| 619.70 | -106.48 | 621.25 | 0.00 |
| 619.75 | -106.48 | 621.25 | 0.00 |
| 619.80 | -106.48 | 621.25 | 0.00 |
| 619.85 | -106.48 | 621.25 | 0.00 |
| 619.90 | -106.48 | 621.25 | 0.00 |
| 619.95 | -106.48 | 621.25 | 0.00 |
| 620.00 | -106.48 | 621.25 | 0.00 |
| 620.05 | -106.48 | 621.25 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -106.13 | 621.25 | 0.00 |
| 620.15 | -105.48 | 621.25 | 0.00 |
| 620.20 | -104.64 | 621.25 | 0.00 |
| 620.25 | -103.63 | 621.25 | 0.00 |
| 620.30 | -102.46 | 621.25 | 0.00 |
| 620.35 | -101.14 | 621.25 | 0.00 |
| 620.40 | -99.68 | 621.25 | 0.00 |
| 620.45 | -98.07 | 621.25 | 0.00 |
| 620.50 | -96.30 | 621.25 | 0.00 |
| 620.55 | -94.38 | 621.25 | 0.00 |
| 620.60 | -92.29 | 621.25 | 0.00 |
| 620.65 | -90.01 | 621.25 | 0.00 |
| 620.70 | -87.54 | 621.25 | 0.00 |
| 620.75 | -84.85 | 621.25 | 0.00 |
| 620.80 | -81.91 | 621.25 | 0.00 |
| 620.85 | -78.68 | 621.25 | 0.00 |
| 620.90 | -75.10 | 621.25 | 0.00 |
| 620.95 | -71.11 | 621.25 | 0.00 |
| 621.00 | -66.60 | 621.25 | 0.00 |
| 621.05 | -61.39 | 621.25 | 0.00 |
| 621.10 | -55.20 | 621.25 | 0.00 |
| 621.15 | -47.42 | 621.25 | 0.00 |
| 621.20 | -36.47 | 621.25 | 0.00 |
| 621.25 | 0.00 | 621.25 | 0.00 |
| 621.30 | 38.17 | 621.25 | 0.00 |
| 621.35 | 51.88 | 621.25 | 0.00 |
| 621.40 | 63.04 | 621.25 | 0.00 |
| 621.45 | 73.09 | 621.25 | 0.00 |
| 621.50 | 82.57 | 621.25 | 0.00 |
| 621.55 | 91.71 | 621.25 | 0.00 |
| 621.60 | 100.66 | 621.25 | 0.00 |
| 621.65 | 109.49 | 621.25 | 0.00 |
| 621.70 | 118.26 | 621.25 | 0.00 |
| 621.75 | 127.01 | 621.25 | 0.00 |
| 621.80 | 135.76 | 621.25 | 0.00 |
| 621.85 | 144.54 | 621.25 | 0.00 |
| 621.90 | 153.35 | 621.25 | 0.00 |
| 621.95 | 162.21 | 621.25 | 0.00 |
| 622.00 | 171.12 | 621.25 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Return Event: 1 years

Label: Infiltration Basin Overflow

Storm Event: 1 year

Scenario: Post-Development 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -113.20 | 621.30 | 0.00 |
| 618.05 | -113.20 | 621.30 | 0.00 |
| 618.10 | -113.20 | 621.30 | 0.00 |
| 618.15 | -113.20 | 621.30 | 0.00 |
| 618.20 | -113.20 | 621.30 | 0.00 |
| 618.25 | -113.20 | 621.30 | 0.00 |
| 618.30 | -113.20 | 621.30 | 0.00 |
| 618.35 | -113.20 | 621.30 | 0.00 |
| 618.40 | -113.20 | 621.30 | 0.00 |
| 618.45 | -113.20 | 621.30 | 0.00 |
| 618.50 | -113.20 | 621.30 | 0.00 |
| 618.55 | -113.20 | 621.30 | 0.00 |
| 618.60 | -113.20 | 621.30 | 0.00 |
| 618.65 | -113.20 | 621.30 | 0.00 |
| 618.70 | -113.20 | 621.30 | 0.00 |
| 618.75 | -113.20 | 621.30 | 0.00 |
| 618.80 | -113.20 | 621.30 | 0.00 |
| 618.85 | -113.20 | 621.30 | 0.00 |
| 618.90 | -113.20 | 621.30 | 0.00 |
| 618.95 | -113.20 | 621.30 | 0.00 |
| 619.00 | -113.20 | 621.30 | 0.00 |
| 619.05 | -113.20 | 621.30 | 0.00 |
| 619.10 | -113.20 | 621.30 | 0.00 |
| 619.15 | -113.20 | 621.30 | 0.00 |
| 619.20 | -113.20 | 621.30 | 0.00 |
| 619.25 | -113.20 | 621.30 | 0.00 |
| 619.30 | -113.20 | 621.30 | 0.00 |
| 619.35 | -113.20 | 621.30 | 0.00 |
| 619.40 | -113.20 | 621.30 | 0.00 |
| 619.45 | -113.20 | 621.30 | 0.00 |
| 619.50 | -113.20 | 621.30 | 0.00 |
| 619.55 | -113.20 | 621.30 | 0.00 |
| 619.60 | -113.20 | 621.30 | 0.00 |
| 619.65 | -113.20 | 621.30 | 0.00 |
| 619.70 | -113.20 | 621.30 | 0.00 |
| 619.75 | -113.20 | 621.30 | 0.00 |
| 619.80 | -113.20 | 621.30 | 0.00 |
| 619.85 | -113.20 | 621.30 | 0.00 |
| 619.90 | -113.20 | 621.30 | 0.00 |
| 619.95 | -113.20 | 621.30 | 0.00 |
| 620.00 | -113.20 | 621.30 | 0.00 |
| 620.05 | -113.20 | 621.30 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -112.85 | 621.30 | 0.00 |
| 620.15 | -112.21 | 621.30 | 0.00 |
| 620.20 | -111.37 | 621.30 | 0.00 |
| 620.25 | -110.35 | 621.30 | 0.00 |
| 620.30 | -109.19 | 621.30 | 0.00 |
| 620.35 | -107.88 | 621.30 | 0.00 |
| 620.40 | -106.42 | 621.30 | 0.00 |
| 620.45 | -104.82 | 621.30 | 0.00 |
| 620.50 | -103.08 | 621.30 | 0.00 |
| 620.55 | -101.18 | 621.30 | 0.00 |
| 620.60 | -99.12 | 621.30 | 0.00 |
| 620.65 | -96.88 | 621.30 | 0.00 |
| 620.70 | -94.46 | 621.30 | 0.00 |
| 620.75 | -91.84 | 621.30 | 0.00 |
| 620.80 | -88.99 | 621.30 | 0.00 |
| 620.85 | -85.88 | 621.30 | 0.00 |
| 620.90 | -82.47 | 621.30 | 0.00 |
| 620.95 | -78.71 | 621.30 | 0.00 |
| 621.00 | -74.51 | 621.30 | 0.00 |
| 621.05 | -69.77 | 621.30 | 0.00 |
| 621.10 | -64.30 | 621.30 | 0.00 |
| 621.15 | -57.80 | 621.30 | 0.00 |
| 621.20 | -49.65 | 621.30 | 0.00 |
| 621.25 | -38.17 | 621.30 | 0.00 |
| 621.30 | 0.00 | 621.30 | 0.00 |
| 621.35 | 39.88 | 621.30 | 0.00 |
| 621.40 | 54.13 | 621.30 | 0.00 |
| 621.45 | 65.67 | 621.30 | 0.00 |
| 621.50 | 76.05 | 621.30 | 0.00 |
| 621.55 | 85.80 | 621.30 | 0.00 |
| 621.60 | 95.19 | 621.30 | 0.00 |
| 621.65 | 104.36 | 621.30 | 0.00 |
| 621.70 | 113.41 | 621.30 | 0.00 |
| 621.75 | 122.37 | 621.30 | 0.00 |
| 621.80 | 131.31 | 621.30 | 0.00 |
| 621.85 | 140.24 | 621.30 | 0.00 |
| 621.90 | 149.18 | 621.30 | 0.00 |
| 621.95 | 158.15 | 621.30 | 0.00 |
| 622.00 | 167.17 | 621.30 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -120.06 | 621.35 | 0.00 |
| 618.05 | -120.06 | 621.35 | 0.00 |
| 618.10 | -120.06 | 621.35 | 0.00 |
| 618.15 | -120.06 | 621.35 | 0.00 |
| 618.20 | -120.06 | 621.35 | 0.00 |
| 618.25 | -120.06 | 621.35 | 0.00 |
| 618.30 | -120.06 | 621.35 | 0.00 |
| 618.35 | -120.06 | 621.35 | 0.00 |
| 618.40 | -120.06 | 621.35 | 0.00 |
| 618.45 | -120.06 | 621.35 | 0.00 |
| 618.50 | -120.06 | 621.35 | 0.00 |
| 618.55 | -120.06 | 621.35 | 0.00 |
| 618.60 | -120.06 | 621.35 | 0.00 |
| 618.65 | -120.06 | 621.35 | 0.00 |
| 618.70 | -120.06 | 621.35 | 0.00 |
| 618.75 | -120.06 | 621.35 | 0.00 |
| 618.80 | -120.06 | 621.35 | 0.00 |
| 618.85 | -120.06 | 621.35 | 0.00 |
| 618.90 | -120.06 | 621.35 | 0.00 |
| 618.95 | -120.06 | 621.35 | 0.00 |
| 619.00 | -120.06 | 621.35 | 0.00 |
| 619.05 | -120.06 | 621.35 | 0.00 |
| 619.10 | -120.06 | 621.35 | 0.00 |
| 619.15 | -120.06 | 621.35 | 0.00 |
| 619.20 | -120.06 | 621.35 | 0.00 |
| 619.25 | -120.06 | 621.35 | 0.00 |
| 619.30 | -120.06 | 621.35 | 0.00 |
| 619.35 | -120.06 | 621.35 | 0.00 |
| 619.40 | -120.06 | 621.35 | 0.00 |
| 619.45 | -120.06 | 621.35 | 0.00 |
| 619.50 | -120.06 | 621.35 | 0.00 |
| 619.55 | -120.06 | 621.35 | 0.00 |
| 619.60 | -120.06 | 621.35 | 0.00 |
| 619.65 | -120.06 | 621.35 | 0.00 |
| 619.70 | -120.06 | 621.35 | 0.00 |
| 619.75 | -120.06 | 621.35 | 0.00 |
| 619.80 | -120.06 | 621.35 | 0.00 |
| 619.85 | -120.06 | 621.35 | 0.00 |
| 619.90 | -120.06 | 621.35 | 0.00 |
| 619.95 | -120.06 | 621.35 | 0.00 |
| 620.00 | -120.06 | 621.35 | 0.00 |
| 620.05 | -120.06 | 621.35 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -119.71 | 621.35 | 0.00 |
| 620.15 | -119.07 | 621.35 | 0.00 |
| 620.20 | -118.23 | 621.35 | 0.00 |
| 620.25 | -117.22 | 621.35 | 0.00 |
| 620.30 | -116.06 | 621.35 | 0.00 |
| 620.35 | -114.75 | 621.35 | 0.00 |
| 620.40 | -113.30 | 621.35 | 0.00 |
| 620.45 | -111.71 | 621.35 | 0.00 |
| 620.50 | -109.98 | 621.35 | 0.00 |
| 620.55 | -108.10 | 621.35 | 0.00 |
| 620.60 | -106.07 | 621.35 | 0.00 |
| 620.65 | -103.87 | 621.35 | 0.00 |
| 620.70 | -101.50 | 621.35 | 0.00 |
| 620.75 | -98.93 | 621.35 | 0.00 |
| 620.80 | -96.16 | 621.35 | 0.00 |
| 620.85 | -93.15 | 621.35 | 0.00 |
| 620.90 | -89.87 | 621.35 | 0.00 |
| 620.95 | -86.28 | 621.35 | 0.00 |
| 621.00 | -82.33 | 621.35 | 0.00 |
| 621.05 | -77.92 | 621.35 | 0.00 |
| 621.10 | -72.95 | 621.35 | 0.00 |
| 621.15 | -67.22 | 621.35 | 0.00 |
| 621.20 | -60.41 | 621.35 | 0.00 |
| 621.25 | -51.88 | 621.35 | 0.00 |
| 621.30 | -39.88 | 621.35 | 0.00 |
| 621.35 | 0.00 | 621.35 | 0.00 |
| 621.40 | 41.60 | 621.35 | 0.00 |
| 621.45 | 56.38 | 621.35 | 0.00 |
| 621.50 | 68.32 | 621.35 | 0.00 |
| 621.55 | 79.02 | 621.35 | 0.00 |
| 621.60 | 89.05 | 621.35 | 0.00 |
| 621.65 | 98.69 | 621.35 | 0.00 |
| 621.70 | 108.09 | 621.35 | 0.00 |
| 621.75 | 117.34 | 621.35 | 0.00 |
| 621.80 | 126.50 | 621.35 | 0.00 |
| 621.85 | 135.62 | 621.35 | 0.00 |
| 621.90 | 144.73 | 621.35 | 0.00 |
| 621.95 | 153.84 | 621.35 | 0.00 |
| 622.00 | 162.97 | 621.35 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -127.05 | 621.40 | 0.00 |
| 618.05 | -127.05 | 621.40 | 0.00 |
| 618.10 | -127.05 | 621.40 | 0.00 |
| 618.15 | -127.05 | 621.40 | 0.00 |
| 618.20 | -127.05 | 621.40 | 0.00 |
| 618.25 | -127.05 | 621.40 | 0.00 |
| 618.30 | -127.05 | 621.40 | 0.00 |
| 618.35 | -127.05 | 621.40 | 0.00 |
| 618.40 | -127.05 | 621.40 | 0.00 |
| 618.45 | -127.05 | 621.40 | 0.00 |
| 618.50 | -127.05 | 621.40 | 0.00 |
| 618.55 | -127.05 | 621.40 | 0.00 |
| 618.60 | -127.05 | 621.40 | 0.00 |
| 618.65 | -127.05 | 621.40 | 0.00 |
| 618.70 | -127.05 | 621.40 | 0.00 |
| 618.75 | -127.05 | 621.40 | 0.00 |
| 618.80 | -127.05 | 621.40 | 0.00 |
| 618.85 | -127.05 | 621.40 | 0.00 |
| 618.90 | -127.05 | 621.40 | 0.00 |
| 618.95 | -127.05 | 621.40 | 0.00 |
| 619.00 | -127.05 | 621.40 | 0.00 |
| 619.05 | -127.05 | 621.40 | 0.00 |
| 619.10 | -127.05 | 621.40 | 0.00 |
| 619.15 | -127.05 | 621.40 | 0.00 |
| 619.20 | -127.05 | 621.40 | 0.00 |
| 619.25 | -127.05 | 621.40 | 0.00 |
| 619.30 | -127.05 | 621.40 | 0.00 |
| 619.35 | -127.05 | 621.40 | 0.00 |
| 619.40 | -127.05 | 621.40 | 0.00 |
| 619.45 | -127.05 | 621.40 | 0.00 |
| 619.50 | -127.05 | 621.40 | 0.00 |
| 619.55 | -127.05 | 621.40 | 0.00 |
| 619.60 | -127.05 | 621.40 | 0.00 |
| 619.65 | -127.05 | 621.40 | 0.00 |
| 619.70 | -127.05 | 621.40 | 0.00 |
| 619.75 | -127.05 | 621.40 | 0.00 |
| 619.80 | -127.05 | 621.40 | 0.00 |
| 619.85 | -127.05 | 621.40 | 0.00 |
| 619.90 | -127.05 | 621.40 | 0.00 |
| 619.95 | -127.05 | 621.40 | 0.00 |
| 620.00 | -127.05 | 621.40 | 0.00 |
| 620.05 | -127.05 | 621.40 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -126.70 | 621.40 | 0.00 |
| 620.15 | -126.06 | 621.40 | 0.00 |
| 620.20 | -125.22 | 621.40 | 0.00 |
| 620.25 | -124.21 | 621.40 | 0.00 |
| 620.30 | -123.06 | 621.40 | 0.00 |
| 620.35 | -121.75 | 621.40 | 0.00 |
| 620.40 | -120.31 | 621.40 | 0.00 |
| 620.45 | -118.73 | 621.40 | 0.00 |
| 620.50 | -117.02 | 621.40 | 0.00 |
| 620.55 | -115.15 | 621.40 | 0.00 |
| 620.60 | -113.14 | 621.40 | 0.00 |
| 620.65 | -110.98 | 621.40 | 0.00 |
| 620.70 | -108.64 | 621.40 | 0.00 |
| 620.75 | -106.13 | 621.40 | 0.00 |
| 620.80 | -103.42 | 621.40 | 0.00 |
| 620.85 | -100.49 | 621.40 | 0.00 |
| 620.90 | -97.32 | 621.40 | 0.00 |
| 620.95 | -93.88 | 621.40 | 0.00 |
| 621.00 | -90.11 | 621.40 | 0.00 |
| 621.05 | -85.96 | 621.40 | 0.00 |
| 621.10 | -81.35 | 621.40 | 0.00 |
| 621.15 | -76.14 | 621.40 | 0.00 |
| 621.20 | -70.15 | 621.40 | 0.00 |
| 621.25 | -63.04 | 621.40 | 0.00 |
| 621.30 | -54.13 | 621.40 | 0.00 |
| 621.35 | -41.60 | 621.40 | 0.00 |
| 621.40 | 0.00 | 621.40 | 0.00 |
| 621.45 | 43.33 | 621.40 | 0.00 |
| 621.50 | 58.65 | 621.40 | 0.00 |
| 621.55 | 70.98 | 621.40 | 0.00 |
| 621.60 | 82.00 | 621.40 | 0.00 |
| 621.65 | 92.31 | 621.40 | 0.00 |
| 621.70 | 102.19 | 621.40 | 0.00 |
| 621.75 | 111.82 | 621.40 | 0.00 |
| 621.80 | 121.28 | 621.40 | 0.00 |
| 621.85 | 130.64 | 621.40 | 0.00 |
| 621.90 | 139.95 | 621.40 | 0.00 |
| 621.95 | 149.23 | 621.40 | 0.00 |
| 622.00 | 158.51 | 621.40 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -134.18 | 621.45 | 0.00 |
| 618.05 | -134.18 | 621.45 | 0.00 |
| 618.10 | -134.18 | 621.45 | 0.00 |
| 618.15 | -134.18 | 621.45 | 0.00 |
| 618.20 | -134.18 | 621.45 | 0.00 |
| 618.25 | -134.18 | 621.45 | 0.00 |
| 618.30 | -134.18 | 621.45 | 0.00 |
| 618.35 | -134.18 | 621.45 | 0.00 |
| 618.40 | -134.18 | 621.45 | 0.00 |
| 618.45 | -134.18 | 621.45 | 0.00 |
| 618.50 | -134.18 | 621.45 | 0.00 |
| 618.55 | -134.18 | 621.45 | 0.00 |
| 618.60 | -134.18 | 621.45 | 0.00 |
| 618.65 | -134.18 | 621.45 | 0.00 |
| 618.70 | -134.18 | 621.45 | 0.00 |
| 618.75 | -134.18 | 621.45 | 0.00 |
| 618.80 | -134.18 | 621.45 | 0.00 |
| 618.85 | -134.18 | 621.45 | 0.00 |
| 618.90 | -134.18 | 621.45 | 0.00 |
| 618.95 | -134.18 | 621.45 | 0.00 |
| 619.00 | -134.18 | 621.45 | 0.00 |
| 619.05 | -134.18 | 621.45 | 0.00 |
| 619.10 | -134.18 | 621.45 | 0.00 |
| 619.15 | -134.18 | 621.45 | 0.00 |
| 619.20 | -134.18 | 621.45 | 0.00 |
| 619.25 | -134.18 | 621.45 | 0.00 |
| 619.30 | -134.18 | 621.45 | 0.00 |
| 619.35 | -134.18 | 621.45 | 0.00 |
| 619.40 | -134.18 | 621.45 | 0.00 |
| 619.45 | -134.18 | 621.45 | 0.00 |
| 619.50 | -134.18 | 621.45 | 0.00 |
| 619.55 | -134.18 | 621.45 | 0.00 |
| 619.60 | -134.18 | 621.45 | 0.00 |
| 619.65 | -134.18 | 621.45 | 0.00 |
| 619.70 | -134.18 | 621.45 | 0.00 |
| 619.75 | -134.18 | 621.45 | 0.00 |
| 619.80 | -134.18 | 621.45 | 0.00 |
| 619.85 | -134.18 | 621.45 | 0.00 |
| 619.90 | -134.18 | 621.45 | 0.00 |
| 619.95 | -134.18 | 621.45 | 0.00 |
| 620.00 | -134.18 | 621.45 | 0.00 |
| 620.05 | -134.18 | 621.45 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -133.83 | 621.45 | 0.00 |
| 620.15 | -133.18 | 621.45 | 0.00 |
| 620.20 | -132.35 | 621.45 | 0.00 |
| 620.25 | -131.34 | 621.45 | 0.00 |
| 620.30 | -130.18 | 621.45 | 0.00 |
| 620.35 | -128.89 | 621.45 | 0.00 |
| 620.40 | -127.45 | 621.45 | 0.00 |
| 620.45 | -125.88 | 621.45 | 0.00 |
| 620.50 | -124.18 | 621.45 | 0.00 |
| 620.55 | -122.33 | 621.45 | 0.00 |
| 620.60 | -120.34 | 621.45 | 0.00 |
| 620.65 | -118.20 | 621.45 | 0.00 |
| 620.70 | -115.90 | 621.45 | 0.00 |
| 620.75 | -113.43 | 621.45 | 0.00 |
| 620.80 | -110.78 | 621.45 | 0.00 |
| 620.85 | -107.92 | 621.45 | 0.00 |
| 620.90 | -104.85 | 621.45 | 0.00 |
| 620.95 | -101.52 | 621.45 | 0.00 |
| 621.00 | -97.90 | 621.45 | 0.00 |
| 621.05 | -93.96 | 621.45 | 0.00 |
| 621.10 | -89.61 | 621.45 | 0.00 |
| 621.15 | -84.79 | 621.45 | 0.00 |
| 621.20 | -79.35 | 621.45 | 0.00 |
| 621.25 | -73.09 | 621.45 | 0.00 |
| 621.30 | -65.67 | 621.45 | 0.00 |
| 621.35 | -56.38 | 621.45 | 0.00 |
| 621.40 | -43.33 | 621.45 | 0.00 |
| 621.45 | 0.00 | 621.45 | 0.00 |
| 621.50 | 45.07 | 621.45 | 0.00 |
| 621.55 | 60.92 | 621.45 | 0.00 |
| 621.60 | 73.64 | 621.45 | 0.00 |
| 621.65 | 84.99 | 621.45 | 0.00 |
| 621.70 | 95.58 | 621.45 | 0.00 |
| 621.75 | 105.71 | 621.45 | 0.00 |
| 621.80 | 115.57 | 621.45 | 0.00 |
| 621.85 | 125.24 | 621.45 | 0.00 |
| 621.90 | 134.80 | 621.45 | 0.00 |
| 621.95 | 144.29 | 621.45 | 0.00 |
| 622.00 | 153.75 | 621.45 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -141.43 | 621.50 | 0.00 |
| 618.05 | -141.43 | 621.50 | 0.00 |
| 618.10 | -141.43 | 621.50 | 0.00 |
| 618.15 | -141.43 | 621.50 | 0.00 |
| 618.20 | -141.43 | 621.50 | 0.00 |
| 618.25 | -141.43 | 621.50 | 0.00 |
| 618.30 | -141.43 | 621.50 | 0.00 |
| 618.35 | -141.43 | 621.50 | 0.00 |
| 618.40 | -141.43 | 621.50 | 0.00 |
| 618.45 | -141.43 | 621.50 | 0.00 |
| 618.50 | -141.43 | 621.50 | 0.00 |
| 618.55 | -141.43 | 621.50 | 0.00 |
| 618.60 | -141.43 | 621.50 | 0.00 |
| 618.65 | -141.43 | 621.50 | 0.00 |
| 618.70 | -141.43 | 621.50 | 0.00 |
| 618.75 | -141.43 | 621.50 | 0.00 |
| 618.80 | -141.43 | 621.50 | 0.00 |
| 618.85 | -141.43 | 621.50 | 0.00 |
| 618.90 | -141.43 | 621.50 | 0.00 |
| 618.95 | -141.43 | 621.50 | 0.00 |
| 619.00 | -141.43 | 621.50 | 0.00 |
| 619.05 | -141.43 | 621.50 | 0.00 |
| 619.10 | -141.43 | 621.50 | 0.00 |
| 619.15 | -141.43 | 621.50 | 0.00 |
| 619.20 | -141.43 | 621.50 | 0.00 |
| 619.25 | -141.43 | 621.50 | 0.00 |
| 619.30 | -141.43 | 621.50 | 0.00 |
| 619.35 | -141.43 | 621.50 | 0.00 |
| 619.40 | -141.43 | 621.50 | 0.00 |
| 619.45 | -141.43 | 621.50 | 0.00 |
| 619.50 | -141.43 | 621.50 | 0.00 |
| 619.55 | -141.43 | 621.50 | 0.00 |
| 619.60 | -141.43 | 621.50 | 0.00 |
| 619.65 | -141.43 | 621.50 | 0.00 |
| 619.70 | -141.43 | 621.50 | 0.00 |
| 619.75 | -141.43 | 621.50 | 0.00 |
| 619.80 | -141.43 | 621.50 | 0.00 |
| 619.85 | -141.43 | 621.50 | 0.00 |
| 619.90 | -141.43 | 621.50 | 0.00 |
| 619.95 | -141.43 | 621.50 | 0.00 |
| 620.00 | -141.43 | 621.50 | 0.00 |
| 620.05 | -141.43 | 621.50 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -141.08 | 621.50 | 0.00 |
| 620.15 | -140.44 | 621.50 | 0.00 |
| 620.20 | -139.60 | 621.50 | 0.00 |
| 620.25 | -138.59 | 621.50 | 0.00 |
| 620.30 | -137.44 | 621.50 | 0.00 |
| 620.35 | -136.15 | 621.50 | 0.00 |
| 620.40 | -134.72 | 621.50 | 0.00 |
| 620.45 | -133.16 | 621.50 | 0.00 |
| 620.50 | -131.46 | 621.50 | 0.00 |
| 620.55 | -129.63 | 621.50 | 0.00 |
| 620.60 | -127.66 | 621.50 | 0.00 |
| 620.65 | -125.54 | 621.50 | 0.00 |
| 620.70 | -123.27 | 621.50 | 0.00 |
| 620.75 | -120.84 | 621.50 | 0.00 |
| 620.80 | -118.24 | 621.50 | 0.00 |
| 620.85 | -115.44 | 621.50 | 0.00 |
| 620.90 | -112.44 | 621.50 | 0.00 |
| 620.95 | -109.21 | 621.50 | 0.00 |
| 621.00 | -105.73 | 621.50 | 0.00 |
| 621.05 | -101.94 | 621.50 | 0.00 |
| 621.10 | -97.82 | 621.50 | 0.00 |
| 621.15 | -93.28 | 621.50 | 0.00 |
| 621.20 | -88.24 | 621.50 | 0.00 |
| 621.25 | -82.57 | 621.50 | 0.00 |
| 621.30 | -76.05 | 621.50 | 0.00 |
| 621.35 | -68.32 | 621.50 | 0.00 |
| 621.40 | -58.65 | 621.50 | 0.00 |
| 621.45 | -45.07 | 621.50 | 0.00 |
| 621.50 | 0.00 | 621.50 | 0.00 |
| 621.55 | 46.81 | 621.50 | 0.00 |
| 621.60 | 63.20 | 621.50 | 0.00 |
| 621.65 | 76.32 | 621.50 | 0.00 |
| 621.70 | 87.99 | 621.50 | 0.00 |
| 621.75 | 98.86 | 621.50 | 0.00 |
| 621.80 | 109.25 | 621.50 | 0.00 |
| 621.85 | 119.33 | 621.50 | 0.00 |
| 621.90 | 129.21 | 621.50 | 0.00 |
| 621.95 | 138.97 | 621.50 | 0.00 |
| 622.00 | 148.65 | 621.50 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -148.81 | 621.55 | 0.00 |
| 618.05 | -148.81 | 621.55 | 0.00 |
| 618.10 | -148.81 | 621.55 | 0.00 |
| 618.15 | -148.81 | 621.55 | 0.00 |
| 618.20 | -148.81 | 621.55 | 0.00 |
| 618.25 | -148.81 | 621.55 | 0.00 |
| 618.30 | -148.81 | 621.55 | 0.00 |
| 618.35 | -148.81 | 621.55 | 0.00 |
| 618.40 | -148.81 | 621.55 | 0.00 |
| 618.45 | -148.81 | 621.55 | 0.00 |
| 618.50 | -148.81 | 621.55 | 0.00 |
| 618.55 | -148.81 | 621.55 | 0.00 |
| 618.60 | -148.81 | 621.55 | 0.00 |
| 618.65 | -148.81 | 621.55 | 0.00 |
| 618.70 | -148.81 | 621.55 | 0.00 |
| 618.75 | -148.81 | 621.55 | 0.00 |
| 618.80 | -148.81 | 621.55 | 0.00 |
| 618.85 | -148.81 | 621.55 | 0.00 |
| 618.90 | -148.81 | 621.55 | 0.00 |
| 618.95 | -148.81 | 621.55 | 0.00 |
| 619.00 | -148.81 | 621.55 | 0.00 |
| 619.05 | -148.81 | 621.55 | 0.00 |
| 619.10 | -148.81 | 621.55 | 0.00 |
| 619.15 | -148.81 | 621.55 | 0.00 |
| 619.20 | -148.81 | 621.55 | 0.00 |
| 619.25 | -148.81 | 621.55 | 0.00 |
| 619.30 | -148.81 | 621.55 | 0.00 |
| 619.35 | -148.81 | 621.55 | 0.00 |
| 619.40 | -148.81 | 621.55 | 0.00 |
| 619.45 | -148.81 | 621.55 | 0.00 |
| 619.50 | -148.81 | 621.55 | 0.00 |
| 619.55 | -148.81 | 621.55 | 0.00 |
| 619.60 | -148.81 | 621.55 | 0.00 |
| 619.65 | -148.81 | 621.55 | 0.00 |
| 619.70 | -148.81 | 621.55 | 0.00 |
| 619.75 | -148.81 | 621.55 | 0.00 |
| 619.80 | -148.81 | 621.55 | 0.00 |
| 619.85 | -148.81 | 621.55 | 0.00 |
| 619.90 | -148.81 | 621.55 | 0.00 |
| 619.95 | -148.81 | 621.55 | 0.00 |
| 620.00 | -148.81 | 621.55 | 0.00 |
| 620.05 | -148.81 | 621.55 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -148.46 | 621.55 | 0.00 |
| 620.15 | -147.82 | 621.55 | 0.00 |
| 620.20 | -146.98 | 621.55 | 0.00 |
| 620.25 | -145.97 | 621.55 | 0.00 |
| 620.30 | -144.82 | 621.55 | 0.00 |
| 620.35 | -143.53 | 621.55 | 0.00 |
| 620.40 | -142.11 | 621.55 | 0.00 |
| 620.45 | -140.56 | 621.55 | 0.00 |
| 620.50 | -138.87 | 621.55 | 0.00 |
| 620.55 | -137.05 | 621.55 | 0.00 |
| 620.60 | -135.10 | 621.55 | 0.00 |
| 620.65 | -133.00 | 621.55 | 0.00 |
| 620.70 | -130.76 | 621.55 | 0.00 |
| 620.75 | -128.36 | 621.55 | 0.00 |
| 620.80 | -125.80 | 621.55 | 0.00 |
| 620.85 | -123.06 | 621.55 | 0.00 |
| 620.90 | -120.13 | 621.55 | 0.00 |
| 620.95 | -116.98 | 621.55 | 0.00 |
| 621.00 | -113.60 | 621.55 | 0.00 |
| 621.05 | -109.95 | 621.55 | 0.00 |
| 621.10 | -106.00 | 621.55 | 0.00 |
| 621.15 | -101.69 | 621.55 | 0.00 |
| 621.20 | -96.96 | 621.55 | 0.00 |
| 621.25 | -91.71 | 621.55 | 0.00 |
| 621.30 | -85.80 | 621.55 | 0.00 |
| 621.35 | -79.02 | 621.55 | 0.00 |
| 621.40 | -70.98 | 621.55 | 0.00 |
| 621.45 | -60.92 | 621.55 | 0.00 |
| 621.50 | -46.81 | 621.55 | 0.00 |
| 621.55 | 0.00 | 621.55 | 0.00 |
| 621.60 | 48.56 | 621.55 | 0.00 |
| 621.65 | 65.50 | 621.55 | 0.00 |
| 621.70 | 79.01 | 621.55 | 0.00 |
| 621.75 | 91.00 | 621.55 | 0.00 |
| 621.80 | 102.15 | 621.55 | 0.00 |
| 621.85 | 112.79 | 621.55 | 0.00 |
| 621.90 | 123.10 | 621.55 | 0.00 |
| 621.95 | 133.20 | 621.55 | 0.00 |
| 622.00 | 143.15 | 621.55 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
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| Weir - 1 |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -156.31 | 621.60 | 0.00 |
| 618.05 | -156.31 | 621.60 | 0.00 |
| 618.10 | -156.31 | 621.60 | 0.00 |
| 618.15 | -156.31 | 621.60 | 0.00 |
| 618.20 | -156.31 | 621.60 | 0.00 |
| 618.25 | -156.31 | 621.60 | 0.00 |
| 618.30 | -156.31 | 621.60 | 0.00 |
| 618.35 | -156.31 | 621.60 | 0.00 |
| 618.40 | -156.31 | 621.60 | 0.00 |
| 618.45 | -156.31 | 621.60 | 0.00 |
| 618.50 | -156.31 | 621.60 | 0.00 |
| 618.55 | -156.31 | 621.60 | 0.00 |
| 618.60 | -156.31 | 621.60 | 0.00 |
| 618.65 | -156.31 | 621.60 | 0.00 |
| 618.70 | -156.31 | 621.60 | 0.00 |
| 618.75 | -156.31 | 621.60 | 0.00 |
| 618.80 | -156.31 | 621.60 | 0.00 |
| 618.85 | -156.31 | 621.60 | 0.00 |
| 618.90 | -156.31 | 621.60 | 0.00 |
| 618.95 | -156.31 | 621.60 | 0.00 |
| 619.00 | -156.31 | 621.60 | 0.00 |
| 619.05 | -156.31 | 621.60 | 0.00 |
| 619.10 | -156.31 | 621.60 | 0.00 |
| 619.15 | -156.31 | 621.60 | 0.00 |
| 619.20 | -156.31 | 621.60 | 0.00 |
| 619.25 | -156.31 | 621.60 | 0.00 |
| 619.30 | -156.31 | 621.60 | 0.00 |
| 619.35 | -156.31 | 621.60 | 0.00 |
| 619.40 | -156.31 | 621.60 | 0.00 |
| 619.45 | -156.31 | 621.60 | 0.00 |
| 619.50 | -156.31 | 621.60 | 0.00 |
| 619.55 | -156.31 | 621.60 | 0.00 |
| 619.60 | -156.31 | 621.60 | 0.00 |
| 619.65 | -156.31 | 621.60 | 0.00 |
| 619.70 | -156.31 | 621.60 | 0.00 |
| 619.75 | -156.31 | 621.60 | 0.00 |
| 619.80 | -156.31 | 621.60 | 0.00 |
| 619.85 | -156.31 | 621.60 | 0.00 |
| 619.90 | -156.31 | 621.60 | 0.00 |
| 619.95 | -156.31 | 621.60 | 0.00 |
| 620.00 | -156.31 | 621.60 | 0.00 |
| 620.05 | -156.31 | 621.60 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -155.96 | 621.60 | 0.00 |
| 620.15 | -155.32 | 621.60 | 0.00 |
| 620.20 | -154.48 | 621.60 | 0.00 |
| 620.25 | -153.48 | 621.60 | 0.00 |
| 620.30 | -152.33 | 621.60 | 0.00 |
| 620.35 | -151.04 | 621.60 | 0.00 |
| 620.40 | -149.62 | 621.60 | 0.00 |
| 620.45 | -148.08 | 621.60 | 0.00 |
| 620.50 | -146.40 | 621.60 | 0.00 |
| 620.55 | -144.59 | 621.60 | 0.00 |
| 620.60 | -142.65 | 621.60 | 0.00 |
| 620.65 | -140.58 | 621.60 | 0.00 |
| 620.70 | -138.36 | 621.60 | 0.00 |
| 620.75 | -135.99 | 621.60 | 0.00 |
| 620.80 | -133.47 | 621.60 | 0.00 |
| 620.85 | -130.77 | 621.60 | 0.00 |
| 620.90 | -127.90 | 621.60 | 0.00 |
| 620.95 | -124.82 | 621.60 | 0.00 |
| 621.00 | -121.53 | 621.60 | 0.00 |
| 621.05 | -118.00 | 621.60 | 0.00 |
| 621.10 | -114.19 | 621.60 | 0.00 |
| 621.15 | -110.07 | 621.60 | 0.00 |
| 621.20 | -105.58 | 621.60 | 0.00 |
| 621.25 | -100.66 | 621.60 | 0.00 |
| 621.30 | -95.19 | 621.60 | 0.00 |
| 621.35 | -89.05 | 621.60 | 0.00 |
| 621.40 | -82.00 | 621.60 | 0.00 |
| 621.45 | -73.64 | 621.60 | 0.00 |
| 621.50 | -63.20 | 621.60 | 0.00 |
| 621.55 | -48.56 | 621.60 | 0.00 |
| 621.60 | 0.00 | 621.60 | 0.00 |
| 621.65 | 50.31 | 621.60 | 0.00 |
| 621.70 | 67.79 | 621.60 | 0.00 |
| 621.75 | 81.70 | 621.60 | 0.00 |
| 621.80 | 94.02 | 621.60 | 0.00 |
| 621.85 | 105.45 | 621.60 | 0.00 |
| 621.90 | 116.34 | 621.60 | 0.00 |
| 621.95 | 126.88 | 621.60 | 0.00 |
| 622.00 | 137.19 | 621.60 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -163.93 | 621.65 | 0.00 |
| 618.05 | -163.93 | 621.65 | 0.00 |
| 618.10 | -163.93 | 621.65 | 0.00 |
| 618.15 | -163.93 | 621.65 | 0.00 |
| 618.20 | -163.93 | 621.65 | 0.00 |
| 618.25 | -163.93 | 621.65 | 0.00 |
| 618.30 | -163.93 | 621.65 | 0.00 |
| 618.35 | -163.93 | 621.65 | 0.00 |
| 618.40 | -163.93 | 621.65 | 0.00 |
| 618.45 | -163.93 | 621.65 | 0.00 |
| 618.50 | -163.93 | 621.65 | 0.00 |
| 618.55 | -163.93 | 621.65 | 0.00 |
| 618.60 | -163.93 | 621.65 | 0.00 |
| 618.65 | -163.93 | 621.65 | 0.00 |
| 618.70 | -163.93 | 621.65 | 0.00 |
| 618.75 | -163.93 | 621.65 | 0.00 |
| 618.80 | -163.93 | 621.65 | 0.00 |
| 618.85 | -163.93 | 621.65 | 0.00 |
| 618.90 | -163.93 | 621.65 | 0.00 |
| 618.95 | -163.93 | 621.65 | 0.00 |
| 619.00 | -163.93 | 621.65 | 0.00 |
| 619.05 | -163.93 | 621.65 | 0.00 |
| 619.10 | -163.93 | 621.65 | 0.00 |
| 619.15 | -163.93 | 621.65 | 0.00 |
| 619.20 | -163.93 | 621.65 | 0.00 |
| 619.25 | -163.93 | 621.65 | 0.00 |
| 619.30 | -163.93 | 621.65 | 0.00 |
| 619.35 | -163.93 | 621.65 | 0.00 |
| 619.40 | -163.93 | 621.65 | 0.00 |
| 619.45 | -163.93 | 621.65 | 0.00 |
| 619.50 | -163.93 | 621.65 | 0.00 |
| 619.55 | -163.93 | 621.65 | 0.00 |
| 619.60 | -163.93 | 621.65 | 0.00 |
| 619.65 | -163.93 | 621.65 | 0.00 |
| 619.70 | -163.93 | 621.65 | 0.00 |
| 619.75 | -163.93 | 621.65 | 0.00 |
| 619.80 | -163.93 | 621.65 | 0.00 |
| 619.85 | -163.93 | 621.65 | 0.00 |
| 619.90 | -163.93 | 621.65 | 0.00 |
| 619.95 | -163.93 | 621.65 | 0.00 |
| 620.00 | -163.93 | 621.65 | 0.00 |
| 620.05 | -163.93 | 621.65 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 620.10 | -163.58 | 621.65 | 0.00 |
| 620.15 | -162.94 | 621.65 | 0.00 |
| 620.20 | -162.10 | 621.65 | 0.00 |
| 620.25 | -161.10 | 621.65 | 0.00 |
| 620.30 | -159.96 | 621.65 | 0.00 |
| 620.35 | -158.67 | 621.65 | 0.00 |
| 620.40 | -157.26 | 621.65 | 0.00 |
| 620.45 | -155.72 | 621.65 | 0.00 |
| 620.50 | -154.05 | 621.65 | 0.00 |
| 620.55 | -152.25 | 621.65 | 0.00 |
| 620.60 | -150.33 | 621.65 | 0.00 |
| 620.65 | -148.27 | 621.65 | 0.00 |
| 620.70 | -146.07 | 621.65 | 0.00 |
| 620.75 | -143.73 | 621.65 | 0.00 |
| 620.80 | -141.24 | 621.65 | 0.00 |
| 620.85 | -138.59 | 621.65 | 0.00 |
| 620.90 | -135.76 | 621.65 | 0.00 |
| 620.95 | -132.75 | 621.65 | 0.00 |
| 621.00 | -129.54 | 621.65 | 0.00 |
| 621.05 | -126.10 | 621.65 | 0.00 |
| 621.10 | -122.42 | 621.65 | 0.00 |
| 621.15 | -118.45 | 621.65 | 0.00 |
| 621.20 | -114.16 | 621.65 | 0.00 |
| 621.25 | -109.49 | 621.65 | 0.00 |
| 621.30 | -104.36 | 621.65 | 0.00 |
| 621.35 | -98.69 | 621.65 | 0.00 |
| 621.40 | -92.31 | 621.65 | 0.00 |
| 621.45 | -84.99 | 621.65 | 0.00 |
| 621.50 | -76.32 | 621.65 | 0.00 |
| 621.55 | -65.50 | 621.65 | 0.00 |
| 621.60 | -50.31 | 621.65 | 0.00 |
| 621.65 | 0.00 | 621.65 | 0.00 |
| 621.70 | 52.07 | 621.65 | 0.00 |
| 621.75 | 70.10 | 621.65 | 0.00 |
| 621.80 | 84.41 | 621.65 | 0.00 |
| 621.85 | 97.05 | 621.65 | 0.00 |
| 621.90 | 108.77 | 621.65 | 0.00 |
| 621.95 | 119.91 | 621.65 | 0.00 |
| 622.00 | 130.68 | 621.65 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -171.68 | 621.70 | 0.00 |
| 618.05 | -171.68 | 621.70 | 0.00 |
| 618.10 | -171.68 | 621.70 | 0.00 |
| 618.15 | -171.68 | 621.70 | 0.00 |
| 618.20 | -171.68 | 621.70 | 0.00 |
| 618.25 | -171.68 | 621.70 | 0.00 |
| 618.30 | -171.68 | 621.70 | 0.00 |
| 618.35 | -171.68 | 621.70 | 0.00 |
| 618.40 | -171.68 | 621.70 | 0.00 |
| 618.45 | -171.68 | 621.70 | 0.00 |
| 618.50 | -171.68 | 621.70 | 0.00 |
| 618.55 | -171.68 | 621.70 | 0.00 |
| 618.60 | -171.68 | 621.70 | 0.00 |
| 618.65 | -171.68 | 621.70 | 0.00 |
| 618.70 | -171.68 | 621.70 | 0.00 |
| 618.75 | -171.68 | 621.70 | 0.00 |
| 618.80 | -171.68 | 621.70 | 0.00 |
| 618.85 | -171.68 | 621.70 | 0.00 |
| 618.90 | -171.68 | 621.70 | 0.00 |
| 618.95 | -171.68 | 621.70 | 0.00 |
| 619.00 | -171.68 | 621.70 | 0.00 |
| 619.05 | -171.68 | 621.70 | 0.00 |
| 619.10 | -171.68 | 621.70 | 0.00 |
| 619.15 | -171.68 | 621.70 | 0.00 |
| 619.20 | -171.68 | 621.70 | 0.00 |
| 619.25 | -171.68 | 621.70 | 0.00 |
| 619.30 | -171.68 | 621.70 | 0.00 |
| 619.35 | -171.68 | 621.70 | 0.00 |
| 619.40 | -171.68 | 621.70 | 0.00 |
| 619.45 | -171.68 | 621.70 | 0.00 |
| 619.50 | -171.68 | 621.70 | 0.00 |
| 619.55 | -171.68 | 621.70 | 0.00 |
| 619.60 | -171.68 | 621.70 | 0.00 |
| 619.65 | -171.68 | 621.70 | 0.00 |
| 619.70 | -171.68 | 621.70 | 0.00 |
| 619.75 | -171.68 | 621.70 | 0.00 |
| 619.80 | -171.68 | 621.70 | 0.00 |
| 619.85 | -171.68 | 621.70 | 0.00 |
| 619.90 | -171.68 | 621.70 | 0.00 |
| 619.95 | -171.68 | 621.70 | 0.00 |
| 620.00 | -171.68 | 621.70 | 0.00 |
| 620.05 | -171.68 | 621.70 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -171.33 | 621.70 | 0.00 |
| 620.15 | -170.69 | 621.70 | 0.00 |
| 620.20 | -169.85 | 621.70 | 0.00 |
| 620.25 | -168.85 | 621.70 | 0.00 |
| 620.30 | -167.71 | 621.70 | 0.00 |
| 620.35 | -166.42 | 621.70 | 0.00 |
| 620.40 | -165.01 | 621.70 | 0.00 |
| 620.45 | -163.48 | 621.70 | 0.00 |
| 620.50 | -161.82 | 621.70 | 0.00 |
| 620.55 | -160.03 | 621.70 | 0.00 |
| 620.60 | -158.11 | 621.70 | 0.00 |
| 620.65 | -156.07 | 621.70 | 0.00 |
| 620.70 | -153.89 | 621.70 | 0.00 |
| 620.75 | -151.58 | 621.70 | 0.00 |
| 620.80 | -149.12 | 621.70 | 0.00 |
| 620.85 | -146.50 | 621.70 | 0.00 |
| 620.90 | -143.72 | 621.70 | 0.00 |
| 620.95 | -140.77 | 621.70 | 0.00 |
| 621.00 | -137.62 | 621.70 | 0.00 |
| 621.05 | -134.27 | 621.70 | 0.00 |
| 621.10 | -130.69 | 621.70 | 0.00 |
| 621.15 | -126.85 | 621.70 | 0.00 |
| 621.20 | -122.72 | 621.70 | 0.00 |
| 621.25 | -118.26 | 621.70 | 0.00 |
| 621.30 | -113.41 | 621.70 | 0.00 |
| 621.35 | -108.09 | 621.70 | 0.00 |
| 621.40 | -102.19 | 621.70 | 0.00 |
| 621.45 | -95.58 | 621.70 | 0.00 |
| 621.50 | -87.99 | 621.70 | 0.00 |
| 621.55 | -79.01 | 621.70 | 0.00 |
| 621.60 | -67.79 | 621.70 | 0.00 |
| 621.65 | -52.07 | 621.70 | 0.00 |
| 621.70 | 0.00 | 621.70 | 0.00 |
| 621.75 | 53.84 | 621.70 | 0.00 |
| 621.80 | 72.42 | 621.70 | 0.00 |
| 621.85 | 87.12 | 621.70 | 0.00 |
| 621.90 | 100.09 | 621.70 | 0.00 |
| 621.95 | 112.09 | 621.70 | 0.00 |
| 622.00 | 123.49 | 621.70 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -179.54 | 621.75 | 0.00 |
| 618.05 | -179.54 | 621.75 | 0.00 |
| 618.10 | -179.54 | 621.75 | 0.00 |
| 618.15 | -179.54 | 621.75 | 0.00 |
| 618.20 | -179.54 | 621.75 | 0.00 |
| 618.25 | -179.54 | 621.75 | 0.00 |
| 618.30 | -179.54 | 621.75 | 0.00 |
| 618.35 | -179.54 | 621.75 | 0.00 |
| 618.40 | -179.54 | 621.75 | 0.00 |
| 618.45 | -179.54 | 621.75 | 0.00 |
| 618.50 | -179.54 | 621.75 | 0.00 |
| 618.55 | -179.54 | 621.75 | 0.00 |
| 618.60 | -179.54 | 621.75 | 0.00 |
| 618.65 | -179.54 | 621.75 | 0.00 |
| 618.70 | -179.54 | 621.75 | 0.00 |
| 618.75 | -179.54 | 621.75 | 0.00 |
| 618.80 | -179.54 | 621.75 | 0.00 |
| 618.85 | -179.54 | 621.75 | 0.00 |
| 618.90 | -179.54 | 621.75 | 0.00 |
| 618.95 | -179.54 | 621.75 | 0.00 |
| 619.00 | -179.54 | 621.75 | 0.00 |
| 619.05 | -179.54 | 621.75 | 0.00 |
| 619.10 | -179.54 | 621.75 | 0.00 |
| 619.15 | -179.54 | 621.75 | 0.00 |
| 619.20 | -179.54 | 621.75 | 0.00 |
| 619.25 | -179.54 | 621.75 | 0.00 |
| 619.30 | -179.54 | 621.75 | 0.00 |
| 619.35 | -179.54 | 621.75 | 0.00 |
| 619.40 | -179.54 | 621.75 | 0.00 |
| 619.45 | -179.54 | 621.75 | 0.00 |
| 619.50 | -179.54 | 621.75 | 0.00 |
| 619.55 | -179.54 | 621.75 | 0.00 |
| 619.60 | -179.54 | 621.75 | 0.00 |
| 619.65 | -179.54 | 621.75 | 0.00 |
| 619.70 | -179.54 | 621.75 | 0.00 |
| 619.75 | -179.54 | 621.75 | 0.00 |
| 619.80 | -179.54 | 621.75 | 0.00 |
| 619.85 | -179.54 | 621.75 | 0.00 |
| 619.90 | -179.54 | 621.75 | 0.00 |
| 619.95 | -179.54 | 621.75 | 0.00 |
| 620.00 | -179.54 | 621.75 | 0.00 |
| 620.05 | -179.54 | 621.75 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -179.19 | 621.75 | 0.00 |
| 620.15 | -178.55 | 621.75 | 0.00 |
| 620.20 | -177.71 | 621.75 | 0.00 |
| 620.25 | -176.71 | 621.75 | 0.00 |
| 620.30 | -175.57 | 621.75 | 0.00 |
| 620.35 | -174.29 | 621.75 | 0.00 |
| 620.40 | -172.89 | 621.75 | 0.00 |
| 620.45 | -171.35 | 621.75 | 0.00 |
| 620.50 | -169.70 | 621.75 | 0.00 |
| 620.55 | -167.92 | 621.75 | 0.00 |
| 620.60 | -166.02 | 621.75 | 0.00 |
| 620.65 | -163.99 | 621.75 | 0.00 |
| 620.70 | -161.83 | 621.75 | 0.00 |
| 620.75 | -159.53 | 621.75 | 0.00 |
| 620.80 | -157.10 | 621.75 | 0.00 |
| 620.85 | -154.52 | 621.75 | 0.00 |
| 620.90 | -151.78 | 621.75 | 0.00 |
| 620.95 | -148.87 | 621.75 | 0.00 |
| 621.00 | -145.79 | 621.75 | 0.00 |
| 621.05 | -142.51 | 621.75 | 0.00 |
| 621.10 | -139.02 | 621.75 | 0.00 |
| 621.15 | -135.29 | 621.75 | 0.00 |
| 621.20 | -131.30 | 621.75 | 0.00 |
| 621.25 | -127.01 | 621.75 | 0.00 |
| 621.30 | -122.37 | 621.75 | 0.00 |
| 621.35 | -117.34 | 621.75 | 0.00 |
| 621.40 | -111.82 | 621.75 | 0.00 |
| 621.45 | -105.71 | 621.75 | 0.00 |
| 621.50 | -98.86 | 621.75 | 0.00 |
| 621.55 | -91.00 | 621.75 | 0.00 |
| 621.60 | -81.70 | 621.75 | 0.00 |
| 621.65 | -70.10 | 621.75 | 0.00 |
| 621.70 | -53.84 | 621.75 | 0.00 |
| 621.75 | 0.00 | 621.75 | 0.00 |
| 621.80 | 55.61 | 621.75 | 0.00 |
| 621.85 | 74.74 | 621.75 | 0.00 |
| 621.90 | 89.85 | 621.75 | 0.00 |
| 621.95 | 103.14 | 621.75 | 0.00 |
| 622.00 | 115.43 | 621.75 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
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| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
| Weir - 1 |
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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -187.52 | 621.80 | 0.00 |
| 618.05 | -187.52 | 621.80 | 0.00 |
| 618.10 | -187.52 | 621.80 | 0.00 |
| 618.15 | -187.52 | 621.80 | 0.00 |
| 618.20 | -187.52 | 621.80 | 0.00 |
| 618.25 | -187.52 | 621.80 | 0.00 |
| 618.30 | -187.52 | 621.80 | 0.00 |
| 618.35 | -187.52 | 621.80 | 0.00 |
| 618.40 | -187.52 | 621.80 | 0.00 |
| 618.45 | -187.52 | 621.80 | 0.00 |
| 618.50 | -187.52 | 621.80 | 0.00 |
| 618.55 | -187.52 | 621.80 | 0.00 |
| 618.60 | -187.52 | 621.80 | 0.00 |
| 618.65 | -187.52 | 621.80 | 0.00 |
| 618.70 | -187.52 | 621.80 | 0.00 |
| 618.75 | -187.52 | 621.80 | 0.00 |
| 618.80 | -187.52 | 621.80 | 0.00 |
| 618.85 | -187.52 | 621.80 | 0.00 |
| 618.90 | -187.52 | 621.80 | 0.00 |
| 618.95 | -187.52 | 621.80 | 0.00 |
| 619.00 | -187.52 | 621.80 | 0.00 |
| 619.05 | -187.52 | 621.80 | 0.00 |
| 619.10 | -187.52 | 621.80 | 0.00 |
| 619.15 | -187.52 | 621.80 | 0.00 |
| 619.20 | -187.52 | 621.80 | 0.00 |
| 619.25 | -187.52 | 621.80 | 0.00 |
| 619.30 | -187.52 | 621.80 | 0.00 |
| 619.35 | -187.52 | 621.80 | 0.00 |
| 619.40 | -187.52 | 621.80 | 0.00 |
| 619.45 | -187.52 | 621.80 | 0.00 |
| 619.50 | -187.52 | 621.80 | 0.00 |
| 619.55 | -187.52 | 621.80 | 0.00 |
| 619.60 | -187.52 | 621.80 | 0.00 |
| 619.65 | -187.52 | 621.80 | 0.00 |
| 619.70 | -187.52 | 621.80 | 0.00 |
| 619.75 | -187.52 | 621.80 | 0.00 |
| 619.80 | -187.52 | 621.80 | 0.00 |
| 619.85 | -187.52 | 621.80 | 0.00 |
| 619.90 | -187.52 | 621.80 | 0.00 |
| 619.95 | -187.52 | 621.80 | 0.00 |
| 620.00 | -187.52 | 621.80 | 0.00 |
| 620.05 | -187.52 | 621.80 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -187.17 | 621.80 | 0.00 |
| 620.15 | -186.53 | 621.80 | 0.00 |
| 620.20 | -185.69 | 621.80 | 0.00 |
| 620.25 | -184.69 | 621.80 | 0.00 |
| 620.30 | -183.55 | 621.80 | 0.00 |
| 620.35 | -182.28 | 621.80 | 0.00 |
| 620.40 | -180.87 | 621.80 | 0.00 |
| 620.45 | -179.35 | 621.80 | 0.00 |
| 620.50 | -177.70 | 621.80 | 0.00 |
| 620.55 | -175.93 | 621.80 | 0.00 |
| 620.60 | -174.03 | 621.80 | 0.00 |
| 620.65 | -172.02 | 621.80 | 0.00 |
| 620.70 | -169.87 | 621.80 | 0.00 |
| 620.75 | -167.60 | 621.80 | 0.00 |
| 620.80 | -165.19 | 621.80 | 0.00 |
| 620.85 | -162.64 | 621.80 | 0.00 |
| 620.90 | -159.94 | 621.80 | 0.00 |
| 620.95 | -157.07 | 621.80 | 0.00 |
| 621.00 | -154.04 | 621.80 | 0.00 |
| 621.05 | -150.83 | 621.80 | 0.00 |
| 621.10 | -147.41 | 621.80 | 0.00 |
| 621.15 | -143.78 | 621.80 | 0.00 |
| 621.20 | -139.91 | 621.80 | 0.00 |
| 621.25 | -135.76 | 621.80 | 0.00 |
| 621.30 | -131.31 | 621.80 | 0.00 |
| 621.35 | -126.50 | 621.80 | 0.00 |
| 621.40 | -121.28 | 621.80 | 0.00 |
| 621.45 | -115.57 | 621.80 | 0.00 |
| 621.50 | -109.25 | 621.80 | 0.00 |
| 621.55 | -102.15 | 621.80 | 0.00 |
| 621.60 | -94.02 | 621.80 | 0.00 |
| 621.65 | -84.41 | 621.80 | 0.00 |
| 621.70 | -72.42 | 621.80 | 0.00 |
| 621.75 | -55.61 | 621.80 | 0.00 |
| 621.80 | 0.00 | 621.80 | 0.00 |
| 621.85 | 57.39 | 621.80 | 0.00 |
| 621.90 | 77.07 | 621.80 | 0.00 |
| 621.95 | 92.58 | 621.80 | 0.00 |
| 622.00 | 106.20 | 621.80 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -195.61 | 621.85 | 0.00 |
| 618.05 | -195.61 | 621.85 | 0.00 |
| 618.10 | -195.61 | 621.85 | 0.00 |
| 618.15 | -195.61 | 621.85 | 0.00 |
| 618.20 | -195.61 | 621.85 | 0.00 |
| 618.25 | -195.61 | 621.85 | 0.00 |
| 618.30 | -195.61 | 621.85 | 0.00 |
| 618.35 | -195.61 | 621.85 | 0.00 |
| 618.40 | -195.61 | 621.85 | 0.00 |
| 618.45 | -195.61 | 621.85 | 0.00 |
| 618.50 | -195.61 | 621.85 | 0.00 |
| 618.55 | -195.61 | 621.85 | 0.00 |
| 618.60 | -195.61 | 621.85 | 0.00 |
| 618.65 | -195.61 | 621.85 | 0.00 |
| 618.70 | -195.61 | 621.85 | 0.00 |
| 618.75 | -195.61 | 621.85 | 0.00 |
| 618.80 | -195.61 | 621.85 | 0.00 |
| 618.85 | -195.61 | 621.85 | 0.00 |
| 618.90 | -195.61 | 621.85 | 0.00 |
| 618.95 | -195.61 | 621.85 | 0.00 |
| 619.00 | -195.61 | 621.85 | 0.00 |
| 619.05 | -195.61 | 621.85 | 0.00 |
| 619.10 | -195.61 | 621.85 | 0.00 |
| 619.15 | -195.61 | 621.85 | 0.00 |
| 619.20 | -195.61 | 621.85 | 0.00 |
| 619.25 | -195.61 | 621.85 | 0.00 |
| 619.30 | -195.61 | 621.85 | 0.00 |
| 619.35 | -195.61 | 621.85 | 0.00 |
| 619.40 | -195.61 | 621.85 | 0.00 |
| 619.45 | -195.61 | 621.85 | 0.00 |
| 619.50 | -195.61 | 621.85 | 0.00 |
| 619.55 | -195.61 | 621.85 | 0.00 |
| 619.60 | -195.61 | 621.85 | 0.00 |
| 619.65 | -195.61 | 621.85 | 0.00 |
| 619.70 | -195.61 | 621.85 | 0.00 |
| 619.75 | -195.61 | 621.85 | 0.00 |
| 619.80 | -195.61 | 621.85 | 0.00 |
| 619.85 | -195.61 | 621.85 | 0.00 |
| 619.90 | -195.61 | 621.85 | 0.00 |
| 619.95 | -195.61 | 621.85 | 0.00 |
| 620.00 | -195.61 | 621.85 | 0.00 |
| 620.05 | -195.61 | 621.85 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -195.26 | 621.85 | 0.00 |
| 620.15 | -194.62 | 621.85 | 0.00 |
| 620.20 | -193.79 | 621.85 | 0.00 |
| 620.25 | -192.79 | 621.85 | 0.00 |
| 620.30 | -191.65 | 621.85 | 0.00 |
| 620.35 | -190.38 | 621.85 | 0.00 |
| 620.40 | -188.98 | 621.85 | 0.00 |
| 620.45 | -187.45 | 621.85 | 0.00 |
| 620.50 | -185.81 | 621.85 | 0.00 |
| 620.55 | -184.05 | 621.85 | 0.00 |
| 620.60 | -182.16 | 621.85 | 0.00 |
| 620.65 | -180.16 | 621.85 | 0.00 |
| 620.70 | -178.03 | 621.85 | 0.00 |
| 620.75 | -175.77 | 621.85 | 0.00 |
| 620.80 | -173.39 | 621.85 | 0.00 |
| 620.85 | -170.86 | 621.85 | 0.00 |
| 620.90 | -168.19 | 621.85 | 0.00 |
| 620.95 | -165.37 | 621.85 | 0.00 |
| 621.00 | -162.38 | 621.85 | 0.00 |
| 621.05 | -159.22 | 621.85 | 0.00 |
| 621.10 | -155.88 | 621.85 | 0.00 |
| 621.15 | -152.33 | 621.85 | 0.00 |
| 621.20 | -148.56 | 621.85 | 0.00 |
| 621.25 | -144.54 | 621.85 | 0.00 |
| 621.30 | -140.24 | 621.85 | 0.00 |
| 621.35 | -135.62 | 621.85 | 0.00 |
| 621.40 | -130.64 | 621.85 | 0.00 |
| 621.45 | -125.24 | 621.85 | 0.00 |
| 621.50 | -119.33 | 621.85 | 0.00 |
| 621.55 | -112.79 | 621.85 | 0.00 |
| 621.60 | -105.45 | 621.85 | 0.00 |
| 621.65 | -97.05 | 621.85 | 0.00 |
| 621.70 | -87.12 | 621.85 | 0.00 |
| 621.75 | -74.74 | 621.85 | 0.00 |
| 621.80 | -57.39 | 621.85 | 0.00 |
| 621.85 | 0.00 | 621.85 | 0.00 |
| 621.90 | 59.18 | 621.85 | 0.00 |
| 621.95 | 79.41 | 621.85 | 0.00 |
| 622.00 | 95.32 | 621.85 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -203.82 | 621.90 | 0.00 |
| 618.05 | -203.82 | 621.90 | 0.00 |
| 618.10 | -203.82 | 621.90 | 0.00 |
| 618.15 | -203.82 | 621.90 | 0.00 |
| 618.20 | -203.82 | 621.90 | 0.00 |
| 618.25 | -203.82 | 621.90 | 0.00 |
| 618.30 | -203.82 | 621.90 | 0.00 |
| 618.35 | -203.82 | 621.90 | 0.00 |
| 618.40 | -203.82 | 621.90 | 0.00 |
| 618.45 | -203.82 | 621.90 | 0.00 |
| 618.50 | -203.82 | 621.90 | 0.00 |
| 618.55 | -203.82 | 621.90 | 0.00 |
| 618.60 | -203.82 | 621.90 | 0.00 |
| 618.65 | -203.82 | 621.90 | 0.00 |
| 618.70 | -203.82 | 621.90 | 0.00 |
| 618.75 | -203.82 | 621.90 | 0.00 |
| 618.80 | -203.82 | 621.90 | 0.00 |
| 618.85 | -203.82 | 621.90 | 0.00 |
| 618.90 | -203.82 | 621.90 | 0.00 |
| 618.95 | -203.82 | 621.90 | 0.00 |
| 619.00 | -203.82 | 621.90 | 0.00 |
| 619.05 | -203.82 | 621.90 | 0.00 |
| 619.10 | -203.82 | 621.90 | 0.00 |
| 619.15 | -203.82 | 621.90 | 0.00 |
| 619.20 | -203.82 | 621.90 | 0.00 |
| 619.25 | -203.82 | 621.90 | 0.00 |
| 619.30 | -203.82 | 621.90 | 0.00 |
| 619.35 | -203.82 | 621.90 | 0.00 |
| 619.40 | -203.82 | 621.90 | 0.00 |
| 619.45 | -203.82 | 621.90 | 0.00 |
| 619.50 | -203.82 | 621.90 | 0.00 |
| 619.55 | -203.82 | 621.90 | 0.00 |
| 619.60 | -203.82 | 621.90 | 0.00 |
| 619.65 | -203.82 | 621.90 | 0.00 |
| 619.70 | -203.82 | 621.90 | 0.00 |
| 619.75 | -203.82 | 621.90 | 0.00 |
| 619.80 | -203.82 | 621.90 | 0.00 |
| 619.85 | -203.82 | 621.90 | 0.00 |
| 619.90 | -203.82 | 621.90 | 0.00 |
| 619.95 | -203.82 | 621.90 | 0.00 |
| 620.00 | -203.82 | 621.90 | 0.00 |
| 620.05 | -203.82 | 621.90 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -203.47 | 621.90 | 0.00 |
| 620.15 | -202.83 | 621.90 | 0.00 |
| 620.20 | -201.99 | 621.90 | 0.00 |
| 620.25 | -201.00 | 621.90 | 0.00 |
| 620.30 | -199.86 | 621.90 | 0.00 |
| 620.35 | -198.59 | 621.90 | 0.00 |
| 620.40 | -197.19 | 621.90 | 0.00 |
| 620.45 | -195.67 | 621.90 | 0.00 |
| 620.50 | -194.03 | 621.90 | 0.00 |
| 620.55 | -192.28 | 621.90 | 0.00 |
| 620.60 | -190.40 | 621.90 | 0.00 |
| 620.65 | -188.41 | 621.90 | 0.00 |
| 620.70 | -186.29 | 621.90 | 0.00 |
| 620.75 | -184.05 | 621.90 | 0.00 |
| 620.80 | -181.69 | 621.90 | 0.00 |
| 620.85 | -179.18 | 621.90 | 0.00 |
| 620.90 | -176.54 | 621.90 | 0.00 |
| 620.95 | -173.76 | 621.90 | 0.00 |
| 621.00 | -170.81 | 621.90 | 0.00 |
| 621.05 | -167.71 | 621.90 | 0.00 |
| 621.10 | -164.42 | 621.90 | 0.00 |
| 621.15 | -160.95 | 621.90 | 0.00 |
| 621.20 | -157.26 | 621.90 | 0.00 |
| 621.25 | -153.35 | 621.90 | 0.00 |
| 621.30 | -149.18 | 621.90 | 0.00 |
| 621.35 | -144.73 | 621.90 | 0.00 |
| 621.40 | -139.95 | 621.90 | 0.00 |
| 621.45 | -134.80 | 621.90 | 0.00 |
| 621.50 | -129.21 | 621.90 | 0.00 |
| 621.55 | -123.10 | 621.90 | 0.00 |
| 621.60 | -116.34 | 621.90 | 0.00 |
| 621.65 | -108.77 | 621.90 | 0.00 |
| 621.70 | -100.09 | 621.90 | 0.00 |
| 621.75 | -89.85 | 621.90 | 0.00 |
| 621.80 | -77.07 | 621.90 | 0.00 |
| 621.85 | -59.18 | 621.90 | 0.00 |
| 621.90 | 0.00 | 621.90 | 0.00 |
| 621.95 | 60.97 | 621.90 | 0.00 |
| 622.00 | 81.75 | 621.90 | 0.00 |

Contributing Structures

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| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 618.00 | -212.14 | 621.95 | 0.00 |
| 618.05 | -212.14 | 621.95 | 0.00 |
| 618.10 | -212.14 | 621.95 | 0.00 |
| 618.15 | -212.14 | 621.95 | 0.00 |
| 618.20 | -212.14 | 621.95 | 0.00 |
| 618.25 | -212.14 | 621.95 | 0.00 |
| 618.30 | -212.14 | 621.95 | 0.00 |
| 618.35 | -212.14 | 621.95 | 0.00 |
| 618.40 | -212.14 | 621.95 | 0.00 |
| 618.45 | -212.14 | 621.95 | 0.00 |
| 618.50 | -212.14 | 621.95 | 0.00 |
| 618.55 | -212.14 | 621.95 | 0.00 |
| 618.60 | -212.14 | 621.95 | 0.00 |
| 618.65 | -212.14 | 621.95 | 0.00 |
| 618.70 | -212.14 | 621.95 | 0.00 |
| 618.75 | -212.14 | 621.95 | 0.00 |
| 618.80 | -212.14 | 621.95 | 0.00 |
| 618.85 | -212.14 | 621.95 | 0.00 |
| 618.90 | -212.14 | 621.95 | 0.00 |
| 618.95 | -212.14 | 621.95 | 0.00 |
| 619.00 | -212.14 | 621.95 | 0.00 |
| 619.05 | -212.14 | 621.95 | 0.00 |
| 619.10 | -212.14 | 621.95 | 0.00 |
| 619.15 | -212.14 | 621.95 | 0.00 |
| 619.20 | -212.14 | 621.95 | 0.00 |
| 619.25 | -212.14 | 621.95 | 0.00 |
| 619.30 | -212.14 | 621.95 | 0.00 |
| 619.35 | -212.14 | 621.95 | 0.00 |
| 619.40 | -212.14 | 621.95 | 0.00 |
| 619.45 | -212.14 | 621.95 | 0.00 |
| 619.50 | -212.14 | 621.95 | 0.00 |
| 619.55 | -212.14 | 621.95 | 0.00 |
| 619.60 | -212.14 | 621.95 | 0.00 |
| 619.65 | -212.14 | 621.95 | 0.00 |
| 619.70 | -212.14 | 621.95 | 0.00 |
| 619.75 | -212.14 | 621.95 | 0.00 |
| 619.80 | -212.14 | 621.95 | 0.00 |
| 619.85 | -212.14 | 621.95 | 0.00 |
| 619.90 | -212.14 | 621.95 | 0.00 |
| 619.95 | -212.14 | 621.95 | 0.00 |
| 620.00 | -212.14 | 621.95 | 0.00 |
| 620.05 | -212.14 | 621.95 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -211.79 | 621.95 | 0.00 |
| 620.15 | -211.15 | 621.95 | 0.00 |
| 620.20 | -210.31 | 621.95 | 0.00 |
| 620.25 | -209.32 | 621.95 | 0.00 |
| 620.30 | -208.18 | 621.95 | 0.00 |
| 620.35 | -206.91 | 621.95 | 0.00 |
| 620.40 | -205.52 | 621.95 | 0.00 |
| 620.45 | -204.00 | 621.95 | 0.00 |
| 620.50 | -202.37 | 621.95 | 0.00 |
| 620.55 | -200.62 | 621.95 | 0.00 |
| 620.60 | -198.75 | 621.95 | 0.00 |
| 620.65 | -196.77 | 621.95 | 0.00 |
| 620.70 | -194.66 | 621.95 | 0.00 |
| 620.75 | -192.44 | 621.95 | 0.00 |
| 620.80 | -190.09 | 621.95 | 0.00 |
| 620.85 | -187.61 | 621.95 | 0.00 |
| 620.90 | -185.00 | 621.95 | 0.00 |
| 620.95 | -182.24 | 621.95 | 0.00 |
| 621.00 | -179.34 | 621.95 | 0.00 |
| 621.05 | -176.28 | 621.95 | 0.00 |
| 621.10 | -173.05 | 621.95 | 0.00 |
| 621.15 | -169.63 | 621.95 | 0.00 |
| 621.20 | -166.03 | 621.95 | 0.00 |
| 621.25 | -162.21 | 621.95 | 0.00 |
| 621.30 | -158.15 | 621.95 | 0.00 |
| 621.35 | -153.84 | 621.95 | 0.00 |
| 621.40 | -149.23 | 621.95 | 0.00 |
| 621.45 | -144.29 | 621.95 | 0.00 |
| 621.50 | -138.97 | 621.95 | 0.00 |
| 621.55 | -133.20 | 621.95 | 0.00 |
| 621.60 | -126.88 | 621.95 | 0.00 |
| 621.65 | -119.91 | 621.95 | 0.00 |
| 621.70 | -112.09 | 621.95 | 0.00 |
| 621.75 | -103.14 | 621.95 | 0.00 |
| 621.80 | -92.58 | 621.95 | 0.00 |
| 621.85 | -79.41 | 621.95 | 0.00 |
| 621.90 | -60.97 | 621.95 | 0.00 |
| 621.95 | 0.00 | 621.95 | 0.00 |
| 622.00 | 62.76 | 621.95 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve

Label: Infiltration Basin Overflow

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 618.00 | -220.57 | 622.00 | 0.00 |
| 618.05 | -220.57 | 622.00 | 0.00 |
| 618.10 | -220.57 | 622.00 | 0.00 |
| 618.15 | -220.57 | 622.00 | 0.00 |
| 618.20 | -220.57 | 622.00 | 0.00 |
| 618.25 | -220.57 | 622.00 | 0.00 |
| 618.30 | -220.57 | 622.00 | 0.00 |
| 618.35 | -220.57 | 622.00 | 0.00 |
| 618.40 | -220.57 | 622.00 | 0.00 |
| 618.45 | -220.57 | 622.00 | 0.00 |
| 618.50 | -220.57 | 622.00 | 0.00 |
| 618.55 | -220.57 | 622.00 | 0.00 |
| 618.60 | -220.57 | 622.00 | 0.00 |
| 618.65 | -220.57 | 622.00 | 0.00 |
| 618.70 | -220.57 | 622.00 | 0.00 |
| 618.75 | -220.57 | 622.00 | 0.00 |
| 618.80 | -220.57 | 622.00 | 0.00 |
| 618.85 | -220.57 | 622.00 | 0.00 |
| 618.90 | -220.57 | 622.00 | 0.00 |
| 618.95 | -220.57 | 622.00 | 0.00 |
| 619.00 | -220.57 | 622.00 | 0.00 |
| 619.05 | -220.57 | 622.00 | 0.00 |
| 619.10 | -220.57 | 622.00 | 0.00 |
| 619.15 | -220.57 | 622.00 | 0.00 |
| 619.20 | -220.57 | 622.00 | 0.00 |
| 619.25 | -220.57 | 622.00 | 0.00 |
| 619.30 | -220.57 | 622.00 | 0.00 |
| 619.35 | -220.57 | 622.00 | 0.00 |
| 619.40 | -220.57 | 622.00 | 0.00 |
| 619.45 | -220.57 | 622.00 | 0.00 |
| 619.50 | -220.57 | 622.00 | 0.00 |
| 619.55 | -220.57 | 622.00 | 0.00 |
| 619.60 | -220.57 | 622.00 | 0.00 |
| 619.65 | -220.57 | 622.00 | 0.00 |
| 619.70 | -220.57 | 622.00 | 0.00 |
| 619.75 | -220.57 | 622.00 | 0.00 |
| 619.80 | -220.57 | 622.00 | 0.00 |
| 619.85 | -220.57 | 622.00 | 0.00 |
| 619.90 | -220.57 | 622.00 | 0.00 |
| 619.95 | -220.57 | 622.00 | 0.00 |
| 620.00 | -220.57 | 622.00 | 0.00 |
| 620.05 | -220.57 | 622.00 | 0.00 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Infiltration Basin Overflow
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------------|------------------------------|-----------------------------|---------------------------|
| 620.10 | -220.22 | 622.00 | 0.00 |
| 620.15 | -219.58 | 622.00 | 0.00 |
| 620.20 | -218.74 | 622.00 | 0.00 |
| 620.25 | -217.75 | 622.00 | 0.00 |
| 620.30 | -216.61 | 622.00 | 0.00 |
| 620.35 | -215.34 | 622.00 | 0.00 |
| 620.40 | -213.95 | 622.00 | 0.00 |
| 620.45 | -212.44 | 622.00 | 0.00 |
| 620.50 | -210.81 | 622.00 | 0.00 |
| 620.55 | -209.07 | 622.00 | 0.00 |
| 620.60 | -207.21 | 622.00 | 0.00 |
| 620.65 | -205.23 | 622.00 | 0.00 |
| 620.70 | -203.14 | 622.00 | 0.00 |
| 620.75 | -200.93 | 622.00 | 0.00 |
| 620.80 | -198.60 | 622.00 | 0.00 |
| 620.85 | -196.14 | 622.00 | 0.00 |
| 620.90 | -193.55 | 622.00 | 0.00 |
| 620.95 | -190.82 | 622.00 | 0.00 |
| 621.00 | -187.95 | 622.00 | 0.00 |
| 621.05 | -184.93 | 622.00 | 0.00 |
| 621.10 | -181.75 | 622.00 | 0.00 |
| 621.15 | -178.40 | 622.00 | 0.00 |
| 621.20 | -174.86 | 622.00 | 0.00 |
| 621.25 | -171.12 | 622.00 | 0.00 |
| 621.30 | -167.17 | 622.00 | 0.00 |
| 621.35 | -162.97 | 622.00 | 0.00 |
| 621.40 | -158.51 | 622.00 | 0.00 |
| 621.45 | -153.75 | 622.00 | 0.00 |
| 621.50 | -148.65 | 622.00 | 0.00 |
| 621.55 | -143.15 | 622.00 | 0.00 |
| 621.60 | -137.19 | 622.00 | 0.00 |
| 621.65 | -130.68 | 622.00 | 0.00 |
| 621.70 | -123.49 | 622.00 | 0.00 |
| 621.75 | -115.43 | 622.00 | 0.00 |
| 621.80 | -106.20 | 622.00 | 0.00 |
| 621.85 | -95.32 | 622.00 | 0.00 |
| 621.90 | -81.75 | 622.00 | 0.00 |
| 621.95 | -62.76 | 622.00 | 0.00 |
| 622.00 | 0.00 | 622.00 | 0.00 |

Contributing Structures

| |
|----------|
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
Label: Infiltration Basin Overflow
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

| Contributing Structures |
|-------------------------|
| Weir - 1 |
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Stormwater Hydrologic Calculations

Subsection: Composite Rating Curve
 Label: Permeable Asphalt
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Composite Outflow Summary

| Water Surface Elevation (ft) | Flow (ft ³ /s) | Tailwater Elevation (ft) | Convergence Error (ft) |
|------------------------------|---------------------------|--------------------------|------------------------|
| 634.32 | 0.00 | (N/A) | 0.00 |
| 634.82 | 0.00 | (N/A) | 0.00 |
| 635.32 | 0.00 | (N/A) | 0.00 |
| 635.82 | 26.52 | (N/A) | 0.00 |
| 636.00 | 42.06 | (N/A) | 0.00 |

| Contributing Structures |
|-------------------------|
| None Contributing |
| None Contributing |
| Weir - 1 |
| Weir - 1 |
| Weir - 1 |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary

Label: DB-1C-2B

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|----------------------------------|---------------------------|----------------------------------|--------------------|--|----------------------|--------------------------------|---------------------------|--|--|--|---------------------------|----------------------------------|---------------------------|----------------------------------|--|-----------------|-------|---------|-------|---------|--|-----------------|-------|---------|-------|---------|--|
| Infiltration Method (Computed) | No Infiltration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial Conditions | | | Calculation Tolerances | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation (Starting Water Surface Computed) | 620.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outflow (Starting) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">Time to Peak (hours)</td> <td style="text-align: center;">Maximum Storage Elevation (ft)</td> <td style="text-align: center;">Volume (ft³)</td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">620.00</td> <td style="text-align: center;">0</td> <td colspan="2"></td> </tr> </table> | | | | | | | Time to Peak (hours) | Maximum Storage Elevation (ft) | Volume (ft ³) | | | | 0.000 | 620.00 | 0 | | | | | | | | | | | | | | |
| | Time to Peak (hours) | Maximum Storage Elevation (ft) | Volume (ft ³) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.000 | 620.00 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border: none;"> <tr> <td></td> <td colspan="2" style="text-align: center;">Forward Flow Peaks</td> <td colspan="2" style="text-align: center;">Reverse Flow Peaks</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Time to Peak (hours)</td> <td style="text-align: center;">Flow (Peak) (ft³/s)</td> <td style="text-align: center;">Time to Peak (hours)</td> <td style="text-align: center;">Flow (Peak) (ft³/s)</td> <td></td> </tr> <tr> <td>Pond Inflow....</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.00</td> <td></td> </tr> <tr> <td>Pond Outflow...</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.00</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.00</td> <td></td> </tr> </table> | | | | | | | Forward Flow Peaks | | Reverse Flow Peaks | | | | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | | Pond Inflow.... | 0.000 | 0.00 | 0.000 | 0.00 | | Pond Outflow... | 0.000 | 0.00 | 0.000 | 0.00 | |
| | Forward Flow Peaks | | Reverse Flow Peaks | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pond Inflow.... | 0.000 | 0.00 | 0.000 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pond Outflow... | 0.000 | 0.00 | 0.000 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border: none;"> <tr> <td></td> <td colspan="2" style="text-align: center;">Total Volume In</td> <td colspan="2" style="text-align: center;">Total Volume Out</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Volume (ft³)</td> <td style="text-align: center;">Direction</td> <td style="text-align: center;">Volume (ft³)</td> <td style="text-align: center;">Direction</td> <td></td> </tr> <tr> <td>Pond Inflow....</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Forward</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Reverse</td> <td></td> </tr> <tr> <td>Pond Outflow...</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Reverse</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Forward</td> <td></td> </tr> </table> | | | | | | | Total Volume In | | Total Volume Out | | | | Volume (ft ³) | Direction | Volume (ft ³) | Direction | | Pond Inflow.... | 0 | Forward | 0 | Reverse | | Pond Outflow... | 0 | Reverse | 0 | Forward | |
| | Total Volume In | | Total Volume Out | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pond Inflow.... | 0 | Forward | 0 | Reverse | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pond Outflow... | 0 | Reverse | 0 | Forward | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mass Balance (ft ³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (Initial ICPM) | | 0 ft ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (Total In ICPM) | | 0 ft ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (Total Out ICPM) | | 0 ft ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (Ending) | | 0 ft ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation (Ending) | | 620.00 ft | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Difference | | 0 ft ³ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | | 0.0 % | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: DB-1C-2B
 Scenario: Post-Development 10 year

Return Event: 10 years
 Storm Event: 10 year

| Infiltration | | | | | |
|---|-----------------|--------------------|--------------------------|-------|--------------------|
| Infiltration Method (Computed) | No Infiltration | | | | |
| Initial Conditions | | | Calculation Tolerances | | |
| Elevation (Starting Water Surface Computed) | 620.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Outflow (Starting) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |

| | Time to Peak (hours) | Maximum Storage Elevation (ft) | Volume (ft ³) |
|--|----------------------|--------------------------------|---------------------------|
| | 12.450 | 620.84 | 11,823 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.200 | 26.91 | 0.000 | 0.00 |
| Pond Outflow... | 12.450 | 13.94 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 62,706 | Forward | 0 | Reverse |
| Pond Outflow... | 0 | Reverse | 62,698 | Forward |

| Mass Balance (ft ³) | |
|---|------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 62,706 ft ³ |
| Volume (Total Out ICPM) | 62,698 ft ³ |
| Volume (Ending) | 7 ft ³ |
| Elevation (Ending) | 620.00 ft |
| Difference | 0 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: DB-1C-2B
 Scenario: Post-Development 25 year

Return Event: 25 years
 Storm Event: 25 year

| Infiltration | | | | | |
|---|-----------------|--------------------|--------------------------|-------|--------------------|
| Infiltration Method (Computed) | No Infiltration | | | | |
| Initial Conditions | | | Calculation Tolerances | | |
| Elevation (Starting Water Surface Computed) | 620.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Outflow (Starting) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |

| | Time to Peak (hours) | Maximum Storage Elevation (ft) | Volume (ft ³) |
|--|----------------------|--------------------------------|---------------------------|
| | 12.350 | 621.24 | 17,430 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 37.30 | 0.000 | 0.00 |
| Pond Outflow... | 12.350 | 24.96 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 108,364 | Forward | 0 | Reverse |
| Pond Outflow... | 0 | Reverse | 108,354 | Forward |

| Mass Balance (ft ³) | |
|---|-------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 108,364 ft ³ |
| Volume (Total Out ICPM) | 108,354 ft ³ |
| Volume (Ending) | 10 ft ³ |
| Elevation (Ending) | 620.00 ft |
| Difference | 0 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: DB-1C-2B
 Scenario: Post-Development 100 year

Return Event: 100 years
 Storm Event: 100 year

| Infiltration | | | | | |
|---|-----------------|--------------------|--------------------------|-------|--------------------|
| Infiltration Method (Computed) | No Infiltration | | | | |
| Initial Conditions | | | Calculation Tolerances | | |
| Elevation (Starting Water Surface Computed) | 620.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Outflow (Starting) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |

| | Time to Peak (hours) | Maximum Storage Elevation (ft) | Volume (ft ³) |
|--|----------------------|--------------------------------|---------------------------|
| | 12.250 | 621.92 | 26,897 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 60.39 | 0.000 | 0.00 |
| Pond Outflow... | 12.250 | 51.19 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 213,275 | Forward | 0 | Reverse |
| Pond Outflow... | 0 | Reverse | 213,250 | Forward |

| Mass Balance (ft ³) | |
|---|-------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 213,275 ft ³ |
| Volume (Total Out ICPM) | 213,250 ft ³ |
| Volume (Ending) | 25 ft ³ |
| Elevation (Ending) | 620.00 ft |
| Difference | 1 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: IB-1C-2B
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

| Infiltration | | | | | |
|--------------------------------|-------------------------|--|--|--|--|
| Infiltration Method (Computed) | Constant | | | | |
| Infiltration Rate (Constant) | 1.65 ft ³ /s | | | | |

| Initial Conditions | | | Calculation Tolerances | | |
|---|--------|--------------------|--------------------------|-------|--------------------|
| Elevation (Starting Water Surface Computed) | 618.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Infiltration (Starting ICPM) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |
| Outflow (Starting) | 0.00 | ft ³ /s | Output Increment | 0.050 | hours |

| Maximum Storage | | |
|----------------------|----------------|---------------------------|
| Time to Peak (hours) | Elevation (ft) | Volume (ft ³) |
| 23.900 | 619.99 | 19,929 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 13.72 | 0.000 | 0.00 |
| Infiltration... | 11.750 | 1.65 | 0.000 | 0.00 |
| Pond Outflow... | 0.000 | 0.00 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 53,690 | Forward | 0 | Reverse |
| Infiltration... | 0 | Reverse | 33,739 | Forward |
| Pond Outflow... | 0 | Reverse | 0 | Forward |

| Mass Balance (ft ³) | |
|---|------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 53,690 ft ³ |
| Volume (Total Out ICPM) | 33,739 ft ³ |
| Volume (Ending) | 19,930 ft ³ |
| Elevation (Ending) | 619.99 ft |
| Difference | 21 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: IB-1C-2B
 Scenario: Post-Development 10 year

Return Event: 10 years
 Storm Event: 10 year

| Infiltration | | | | | |
|--------------------------------|-------------------------|--|--|--|--|
| Infiltration Method (Computed) | Constant | | | | |
| Infiltration Rate (Constant) | 1.65 ft ³ /s | | | | |

| Initial Conditions | | | Calculation Tolerances | | |
|---|--------|--------------------|--------------------------|-------|--------------------|
| Elevation (Starting Water Surface Computed) | 618.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Infiltration (Starting ICPM) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |
| Outflow (Starting) | 0.00 | ft ³ /s | Output Increment | 0.050 | hours |

| | Maximum Storage | |
|----------------------|-----------------|---------------------------|
| Time to Peak (hours) | Elevation (ft) | Volume (ft ³) |
| 12.500 | 620.87 | 32,874 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 37.70 | 0.000 | 0.00 |
| Infiltration... | 10.850 | 1.65 | 0.000 | 0.00 |
| Pond Outflow... | 12.200 | 26.91 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 146,107 | Forward | 0 | Reverse |
| Infiltration... | 0 | Reverse | 62,560 | Forward |
| Pond Outflow... | 0 | Reverse | 62,706 | Forward |

| Mass Balance (ft ³) | |
|---|-------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 146,107 ft ³ |
| Volume (Total Out ICPM) | 125,265 ft ³ |
| Volume (Ending) | 20,806 ft ³ |
| Elevation (Ending) | 620.05 ft |
| Difference | 36 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary
 Label: IB-1C-2B
 Scenario: Post-Development 25 year

Return Event: 25 years
 Storm Event: 25 year

| Infiltration | | | | | |
|--------------------------------|--|-------------------------|--|--|--|
| Infiltration Method (Computed) | | Constant | | | |
| Infiltration Rate (Constant) | | 1.65 ft ³ /s | | | |

| Initial Conditions | | | Calculation Tolerances | | |
|---|--------|--------------------|--------------------------|-------|--------------------|
| Elevation (Starting Water Surface Computed) | 618.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Infiltration (Starting ICPM) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |
| Outflow (Starting) | 0.00 | ft ³ /s | Output Increment | 0.050 | hours |

| Maximum Storage | | |
|----------------------|----------------|---------------------------|
| Time to Peak (hours) | Elevation (ft) | Volume (ft ³) |
| 12.400 | 621.28 | 38,870 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 52.09 | 0.000 | 0.00 |
| Infiltration... | 10.150 | 1.65 | 0.000 | 0.00 |
| Pond Outflow... | 12.150 | 37.30 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 203,773 | Forward | 0 | Reverse |
| Infiltration... | 0 | Reverse | 74,541 | Forward |
| Pond Outflow... | 0 | Reverse | 108,364 | Forward |

| Mass Balance (ft ³) | |
|---|-------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 203,773 ft ³ |
| Volume (Total Out ICPM) | 182,905 ft ³ |
| Volume (Ending) | 20,806 ft ³ |
| Elevation (Ending) | 620.05 ft |
| Difference | 62 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Interconnected Pond Routing Summary

Return Event: 100 years

Label: IB-1C-2B

Storm Event: 100 year

Scenario: Post-Development 100 year

| Infiltration | | | | | |
|--------------------------------|--|-------------------------|--|--|--|
| Infiltration Method (Computed) | | Constant | | | |
| Infiltration Rate (Constant) | | 1.65 ft ³ /s | | | |

| Initial Conditions | | | Calculation Tolerances | | |
|---|--------|--------------------|--------------------------|-------|--------------------|
| Elevation (Starting Water Surface Computed) | 618.00 | ft | Flow Tolerance (Minimum) | 0.000 | ft ³ /s |
| Volume (Starting) | 0 | ft ³ | Maximum Iterations | 35 | |
| Infiltration (Starting ICPM) | 0.00 | ft ³ /s | ICPM Time Step | 0.050 | hours |
| Outflow (Starting) | 0.00 | ft ³ /s | Output Increment | 0.050 | hours |

| | Maximum Storage | |
|----------------------|-----------------|---------------------------|
| Time to Peak (hours) | Elevation (ft) | Volume (ft ³) |
| 12.300 | 621.96 | 48,968 |

| | Forward Flow Peaks | | Reverse Flow Peaks | |
|-----------------|----------------------|----------------------------------|----------------------|----------------------------------|
| | Time to Peak (hours) | Flow (Peak) (ft ³ /s) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
| Pond Inflow.... | 12.150 | 81.79 | 0.000 | 0.00 |
| Infiltration... | 8.850 | 1.65 | 0.000 | 0.00 |
| Pond Outflow... | 12.150 | 60.39 | 0.000 | 0.00 |

| | Total Volume In | | Total Volume Out | |
|-----------------|---------------------------|-----------|---------------------------|-----------|
| | Volume (ft ³) | Direction | Volume (ft ³) | Direction |
| Pond Inflow.... | 326,676 | Forward | 0 | Reverse |
| Infiltration... | 0 | Reverse | 92,502 | Forward |
| Pond Outflow... | 0 | Reverse | 213,275 | Forward |

| Mass Balance (ft ³) | |
|---|-------------------------|
| Volume (Initial ICPM) | 0 ft ³ |
| Volume (Total In ICPM) | 326,676 ft ³ |
| Volume (Total Out ICPM) | 305,777 ft ³ |
| Volume (Ending) | 20,807 ft ³ |
| Elevation (Ending) | 620.05 ft |
| Difference | 92 ft ³ |
| Percent of Inflow Volume (Interconnected Pond Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Elevation-Volume-Flow Table (Pond)

Label: Permeable Asphalt

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | |
|---------------------------------------|-------------------------|
| Infiltration Method (Computed) | Constant |
| Infiltration Rate (Constant) | 0.82 ft ³ /s |
| Initial Conditions | |
| Elevation (Water Surface, Initial) | 634.32 ft |
| Volume (Initial) | 0 ft ³ |
| Flow (Initial Outlet) | 0.00 ft ³ /s |
| Flow (Initial Infiltration) | 0.00 ft ³ /s |
| Flow (Initial, Total) | 0.00 ft ³ /s |
| Time Increment | 0.050 hours |

| Elevation (ft) | Outflow (ft ³ /s) | Storage (ft ³) | Area (ft ²) | Infiltration (ft ³ /s) | Flow (Total) (ft ³ /s) | 2S/t + O (ft ³ /s) |
|-------------------|---------------------------------|-------------------------------|----------------------------|--------------------------------------|--------------------------------------|----------------------------------|
| 634.32 | 0.00 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 634.82 | 0.00 | 3,599 | 0 | 0.82 | 0.82 | 40.81 |
| 635.32 | 0.00 | 7,198 | 0 | 0.82 | 0.82 | 80.80 |
| 635.82 | 26.52 | 16,195 | 0 | 0.82 | 27.34 | 207.28 |
| 636.00 | 42.06 | 19,434 | 0 | 0.82 | 42.88 | 258.81 |

Stormwater Hydrologic Calculations

Subsection: Level Pool Pond Routing Summary

Label: Permeable Asphalt (IN)

Scenario: Post-Development 1 year

Return Event: 1 years

Storm Event: 1 year

| Infiltration | | | |
|------------------------------------|-------------------------|-----------------------------|--------------|
| Infiltration Method (Computed) | Constant | | |
| Infiltration Rate (Constant) | | 0.82 ft ³ /s | |
| Initial Conditions | | | |
| Elevation (Water Surface, Initial) | | 634.32 ft | |
| Volume (Initial) | | 0 ft ³ | |
| Flow (Initial Outlet) | | 0.00 ft ³ /s | |
| Flow (Initial Infiltration) | | 0.00 ft ³ /s | |
| Flow (Initial, Total) | | 0.00 ft ³ /s | |
| Time Increment | | 0.050 hours | |
| Inflow/Outflow Hydrograph Summary | | | |
| Flow (Peak In) | 0.96 ft ³ /s | Time to Peak (Flow, In) | 12.100 hours |
| Infiltration (Peak) | 0.30 ft ³ /s | Time to Peak (Infiltration) | 12.400 hours |
| Flow (Peak Outlet) | 0.00 ft ³ /s | Time to Peak (Flow, Outlet) | 0.000 hours |
| Peak Values | | | |
| Elevation (Water Surface, Peak) | | 634.50 ft | |
| Volume (Peak) | | 1,300 ft ³ | |
| Mass Balance (ft ³) | | | |
| Volume (Initial) | | 0 ft ³ | |
| Volume (Total Inflow) | | 3,850 ft ³ | |
| Volume (Total Infiltration) | | 3,801 ft ³ | |
| Volume (Total Outlet Outflow) | | 0 ft ³ | |
| Volume (Retained) | | 49 ft ³ | |
| Volume (Unrouted) | | 0 ft ³ | |
| Error (Mass Balance) | | 0.0 % | |

Stormwater Hydrologic Calculations

Subsection: Level Pool Pond Routing Summary

Label: Permeable Asphalt (IN)

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

| Infiltration | | | |
|------------------------------------|-------------------------|-----------------------------|--------------|
| Infiltration Method (Computed) | Constant | | |
| Infiltration Rate (Constant) | | 0.82 ft ³ /s | |
| Initial Conditions | | | |
| Elevation (Water Surface, Initial) | | 634.32 ft | |
| Volume (Initial) | | 0 ft ³ | |
| Flow (Initial Outlet) | | 0.00 ft ³ /s | |
| Flow (Initial Infiltration) | | 0.00 ft ³ /s | |
| Flow (Initial, Total) | | 0.00 ft ³ /s | |
| Time Increment | | 0.050 hours | |
| Inflow/Outflow Hydrograph Summary | | | |
| Flow (Peak In) | 1.78 ft ³ /s | Time to Peak (Flow, In) | 12.100 hours |
| Infiltration (Peak) | 0.55 ft ³ /s | Time to Peak (Infiltration) | 12.400 hours |
| Flow (Peak Outlet) | 0.00 ft ³ /s | Time to Peak (Flow, Outlet) | 0.000 hours |
| Peak Values | | | |
| Elevation (Water Surface, Peak) | | 634.66 ft | |
| Volume (Peak) | | 2,419 ft ³ | |
| Mass Balance (ft ³) | | | |
| Volume (Initial) | | 0 ft ³ | |
| Volume (Total Inflow) | | 7,318 ft ³ | |
| Volume (Total Infiltration) | | 7,228 ft ³ | |
| Volume (Total Outlet Outflow) | | 0 ft ³ | |
| Volume (Retained) | | 90 ft ³ | |
| Volume (Unrouted) | | 0 ft ³ | |
| Error (Mass Balance) | | 0.0 % | |

Stormwater Hydrologic Calculations

Subsection: Level Pool Pond Routing Summary

Label: Permeable Asphalt (IN)

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Infiltration

| | |
|-----------------------------------|-------------------------|
| Infiltration Method (Computed) | Constant |
| Infiltration Rate (Constant) | 0.82 ft ³ /s |

Initial Conditions

| | |
|---------------------------------------|-------------------------|
| Elevation (Water Surface, Initial) | 634.32 ft |
| Volume (Initial) | 0 ft ³ |
| Flow (Initial Outlet) | 0.00 ft ³ /s |
| Flow (Initial Infiltration) | 0.00 ft ³ /s |
| Flow (Initial, Total) | 0.00 ft ³ /s |
| Time Increment | 0.050 hours |

Inflow/Outflow Hydrograph Summary

| | | | |
|---------------------|-------------------------|-----------------------------|--------------|
| Flow (Peak In) | 2.24 ft ³ /s | Time to Peak (Flow, In) | 12.100 hours |
| Infiltration (Peak) | 0.70 ft ³ /s | Time to Peak (Infiltration) | 12.400 hours |
| Flow (Peak Outlet) | 0.00 ft ³ /s | Time to Peak (Flow, Outlet) | 0.000 hours |

| | |
|------------------------------------|-----------------------|
| Elevation (Water Surface, Peak) | 634.74 ft |
| Volume (Peak) | 3,052 ft ³ |

Mass Balance (ft³)

| | |
|----------------------------------|-----------------------|
| Volume (Initial) | 0 ft ³ |
| Volume (Total Inflow) | 9,294 ft ³ |
| Volume (Total Infiltration) | 9,180 ft ³ |
| Volume (Total Outlet Outflow) | 0 ft ³ |
| Volume (Retained) | 113 ft ³ |
| Volume (Unrouted) | 0 ft ³ |
| Error (Mass Balance) | 0.0 % |

Stormwater Hydrologic Calculations

Subsection: Level Pool Pond Routing Summary

Return Event: 100 years

Label: Permeable Asphalt (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

| Infiltration | | | |
|------------------------------------|-------------------------|-----------------------------|--------------|
| Infiltration Method (Computed) | Constant | | |
| Infiltration Rate (Constant) | 0.82 ft ³ /s | | |
| Initial Conditions | | | |
| Elevation (Water Surface, Initial) | 634.32 ft | | |
| Volume (Initial) | 0 ft ³ | | |
| Flow (Initial Outlet) | 0.00 ft ³ /s | | |
| Flow (Initial Infiltration) | 0.00 ft ³ /s | | |
| Flow (Initial, Total) | 0.00 ft ³ /s | | |
| Time Increment | 0.050 hours | | |
| Inflow/Outflow Hydrograph Summary | | | |
| Flow (Peak In) | 3.18 ft ³ /s | Time to Peak (Flow, In) | 12.100 hours |
| Infiltration (Peak) | 0.82 ft ³ /s | Time to Peak (Infiltration) | 12.150 hours |
| Flow (Peak Outlet) | 0.00 ft ³ /s | Time to Peak (Flow, Outlet) | 0.000 hours |
| Peak Values | | | |
| Elevation (Water Surface, Peak) | 634.94 ft | | |
| Volume (Peak) | 4,485 ft ³ | | |
| Mass Balance (ft ³) | | | |
| Volume (Initial) | 0 ft ³ | | |
| Volume (Total Inflow) | 13,337 ft ³ | | |
| Volume (Total Infiltration) | 13,176 ft ³ | | |
| Volume (Total Outlet Outflow) | 0 ft ³ | | |
| Volume (Retained) | 161 ft ³ | | |
| Volume (Unrouted) | 0 ft ³ | | |
| Error (Mass Balance) | 0.0 % | | |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.050 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.200 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.250 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.300 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.350 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.400 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.450 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.550 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.600 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.700 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.750 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.800 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.850 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.900 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 0.950 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.050 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.200 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.250 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.300 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.350 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.400 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.450 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.550 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.600 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.700 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.750 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.800 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 634.32 |
| 1.850 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0 | 634.32 |
| 1.900 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0 | 634.32 |
| 1.950 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 1 | 634.32 |
| 2.000 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 1 | 634.32 |
| 2.050 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 1 | 634.32 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 2.100 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 2 | 634.32 |
| 2.150 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 2 | 634.32 |
| 2.200 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 2 | 634.32 |
| 2.250 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 2 | 634.32 |
| 2.300 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 3 | 634.32 |
| 2.350 | 0.00 | 0.03 | 0.03 | 0.00 | 0.00 | 3 | 634.32 |
| 2.400 | 0.00 | 0.03 | 0.04 | 0.00 | 0.00 | 3 | 634.32 |
| 2.450 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | 4 | 634.32 |
| 2.500 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | 4 | 634.32 |
| 2.550 | 0.00 | 0.05 | 0.05 | 0.00 | 0.00 | 4 | 634.32 |
| 2.600 | 0.00 | 0.05 | 0.05 | 0.00 | 0.00 | 5 | 634.32 |
| 2.650 | 0.00 | 0.05 | 0.06 | 0.00 | 0.00 | 5 | 634.32 |
| 2.700 | 0.00 | 0.06 | 0.06 | 0.00 | 0.00 | 5 | 634.32 |
| 2.750 | 0.00 | 0.06 | 0.06 | 0.00 | 0.00 | 6 | 634.32 |
| 2.800 | 0.00 | 0.07 | 0.07 | 0.00 | 0.00 | 6 | 634.32 |
| 2.850 | 0.00 | 0.07 | 0.07 | 0.00 | 0.00 | 7 | 634.32 |
| 2.900 | 0.00 | 0.08 | 0.08 | 0.00 | 0.00 | 7 | 634.32 |
| 2.950 | 0.00 | 0.08 | 0.08 | 0.00 | 0.00 | 7 | 634.32 |
| 3.000 | 0.00 | 0.09 | 0.09 | 0.00 | 0.00 | 8 | 634.32 |
| 3.050 | 0.00 | 0.09 | 0.09 | 0.00 | 0.00 | 8 | 634.32 |
| 3.100 | 0.00 | 0.09 | 0.10 | 0.00 | 0.00 | 9 | 634.32 |
| 3.150 | 0.00 | 0.10 | 0.10 | 0.00 | 0.00 | 9 | 634.32 |
| 3.200 | 0.00 | 0.11 | 0.11 | 0.00 | 0.00 | 10 | 634.32 |
| 3.250 | 0.00 | 0.11 | 0.11 | 0.00 | 0.00 | 10 | 634.32 |
| 3.300 | 0.01 | 0.12 | 0.12 | 0.00 | 0.00 | 11 | 634.32 |
| 3.350 | 0.01 | 0.12 | 0.13 | 0.00 | 0.00 | 11 | 634.32 |
| 3.400 | 0.01 | 0.13 | 0.13 | 0.00 | 0.00 | 12 | 634.32 |
| 3.450 | 0.01 | 0.13 | 0.14 | 0.00 | 0.00 | 12 | 634.32 |
| 3.500 | 0.01 | 0.14 | 0.14 | 0.00 | 0.00 | 13 | 634.32 |
| 3.550 | 0.01 | 0.14 | 0.15 | 0.00 | 0.00 | 13 | 634.32 |
| 3.600 | 0.01 | 0.15 | 0.15 | 0.00 | 0.00 | 14 | 634.32 |
| 3.650 | 0.01 | 0.15 | 0.16 | 0.00 | 0.00 | 14 | 634.32 |
| 3.700 | 0.01 | 0.16 | 0.17 | 0.00 | 0.00 | 15 | 634.32 |
| 3.750 | 0.01 | 0.17 | 0.17 | 0.00 | 0.00 | 15 | 634.32 |
| 3.800 | 0.01 | 0.17 | 0.18 | 0.00 | 0.00 | 16 | 634.32 |
| 3.850 | 0.01 | 0.18 | 0.18 | 0.00 | 0.00 | 16 | 634.32 |
| 3.900 | 0.01 | 0.18 | 0.19 | 0.00 | 0.00 | 17 | 634.32 |
| 3.950 | 0.01 | 0.19 | 0.20 | 0.00 | 0.00 | 17 | 634.32 |
| 4.000 | 0.01 | 0.19 | 0.20 | 0.00 | 0.00 | 18 | 634.32 |
| 4.050 | 0.01 | 0.20 | 0.21 | 0.00 | 0.00 | 18 | 634.32 |
| 4.100 | 0.01 | 0.21 | 0.22 | 0.00 | 0.00 | 19 | 634.32 |
| 4.150 | 0.01 | 0.21 | 0.22 | 0.00 | 0.00 | 20 | 634.32 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 4.200 | 0.01 | 0.22 | 0.23 | 0.00 | 0.00 | 20 | 634.32 |
| 4.250 | 0.01 | 0.22 | 0.23 | 0.00 | 0.00 | 21 | 634.32 |
| 4.300 | 0.01 | 0.23 | 0.24 | 0.00 | 0.00 | 21 | 634.32 |
| 4.350 | 0.01 | 0.24 | 0.25 | 0.00 | 0.00 | 22 | 634.32 |
| 4.400 | 0.01 | 0.24 | 0.25 | 0.01 | 0.00 | 22 | 634.32 |
| 4.450 | 0.01 | 0.25 | 0.26 | 0.01 | 0.00 | 23 | 634.32 |
| 4.500 | 0.01 | 0.26 | 0.27 | 0.01 | 0.00 | 24 | 634.32 |
| 4.550 | 0.01 | 0.26 | 0.27 | 0.01 | 0.00 | 24 | 634.32 |
| 4.600 | 0.01 | 0.27 | 0.28 | 0.01 | 0.00 | 25 | 634.32 |
| 4.650 | 0.01 | 0.27 | 0.29 | 0.01 | 0.00 | 25 | 634.32 |
| 4.700 | 0.01 | 0.28 | 0.29 | 0.01 | 0.00 | 26 | 634.32 |
| 4.750 | 0.01 | 0.29 | 0.30 | 0.01 | 0.00 | 26 | 634.32 |
| 4.800 | 0.01 | 0.29 | 0.31 | 0.01 | 0.00 | 27 | 634.32 |
| 4.850 | 0.01 | 0.30 | 0.31 | 0.01 | 0.00 | 28 | 634.32 |
| 4.900 | 0.01 | 0.31 | 0.32 | 0.01 | 0.00 | 28 | 634.32 |
| 4.950 | 0.01 | 0.31 | 0.33 | 0.01 | 0.00 | 29 | 634.32 |
| 5.000 | 0.01 | 0.32 | 0.33 | 0.01 | 0.00 | 29 | 634.32 |
| 5.050 | 0.01 | 0.33 | 0.34 | 0.01 | 0.00 | 30 | 634.32 |
| 5.100 | 0.01 | 0.33 | 0.35 | 0.01 | 0.00 | 31 | 634.32 |
| 5.150 | 0.01 | 0.34 | 0.35 | 0.01 | 0.00 | 31 | 634.32 |
| 5.200 | 0.01 | 0.34 | 0.36 | 0.01 | 0.00 | 32 | 634.32 |
| 5.250 | 0.01 | 0.35 | 0.37 | 0.01 | 0.00 | 32 | 634.32 |
| 5.300 | 0.01 | 0.36 | 0.37 | 0.01 | 0.00 | 33 | 634.32 |
| 5.350 | 0.01 | 0.36 | 0.38 | 0.01 | 0.00 | 33 | 634.32 |
| 5.400 | 0.01 | 0.37 | 0.39 | 0.01 | 0.00 | 34 | 634.32 |
| 5.450 | 0.01 | 0.38 | 0.39 | 0.01 | 0.00 | 35 | 634.32 |
| 5.500 | 0.01 | 0.38 | 0.40 | 0.01 | 0.00 | 35 | 634.32 |
| 5.550 | 0.01 | 0.39 | 0.41 | 0.01 | 0.00 | 36 | 634.32 |
| 5.600 | 0.01 | 0.40 | 0.41 | 0.01 | 0.00 | 36 | 634.33 |
| 5.650 | 0.01 | 0.40 | 0.42 | 0.01 | 0.00 | 37 | 634.33 |
| 5.700 | 0.01 | 0.41 | 0.43 | 0.01 | 0.00 | 38 | 634.33 |
| 5.750 | 0.01 | 0.42 | 0.43 | 0.01 | 0.00 | 38 | 634.33 |
| 5.800 | 0.01 | 0.42 | 0.44 | 0.01 | 0.00 | 39 | 634.33 |
| 5.850 | 0.01 | 0.43 | 0.45 | 0.01 | 0.00 | 39 | 634.33 |
| 5.900 | 0.01 | 0.43 | 0.45 | 0.01 | 0.00 | 40 | 634.33 |
| 5.950 | 0.01 | 0.44 | 0.46 | 0.01 | 0.00 | 41 | 634.33 |
| 6.000 | 0.01 | 0.45 | 0.47 | 0.01 | 0.00 | 41 | 634.33 |
| 6.050 | 0.01 | 0.45 | 0.47 | 0.01 | 0.00 | 42 | 634.33 |
| 6.100 | 0.01 | 0.46 | 0.48 | 0.01 | 0.00 | 42 | 634.33 |
| 6.150 | 0.01 | 0.47 | 0.49 | 0.01 | 0.00 | 43 | 634.33 |
| 6.200 | 0.01 | 0.47 | 0.49 | 0.01 | 0.00 | 44 | 634.33 |
| 6.250 | 0.01 | 0.48 | 0.50 | 0.01 | 0.00 | 44 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 6.300 | 0.01 | 0.49 | 0.51 | 0.01 | 0.00 | 45 | 634.33 |
| 6.350 | 0.01 | 0.50 | 0.52 | 0.01 | 0.00 | 46 | 634.33 |
| 6.400 | 0.01 | 0.50 | 0.53 | 0.01 | 0.00 | 46 | 634.33 |
| 6.450 | 0.01 | 0.51 | 0.53 | 0.01 | 0.00 | 47 | 634.33 |
| 6.500 | 0.02 | 0.52 | 0.54 | 0.01 | 0.00 | 48 | 634.33 |
| 6.550 | 0.02 | 0.53 | 0.55 | 0.01 | 0.00 | 49 | 634.33 |
| 6.600 | 0.02 | 0.54 | 0.56 | 0.01 | 0.00 | 50 | 634.33 |
| 6.650 | 0.02 | 0.55 | 0.57 | 0.01 | 0.00 | 50 | 634.33 |
| 6.700 | 0.02 | 0.56 | 0.58 | 0.01 | 0.00 | 51 | 634.33 |
| 6.750 | 0.02 | 0.57 | 0.59 | 0.01 | 0.00 | 52 | 634.33 |
| 6.800 | 0.02 | 0.58 | 0.60 | 0.01 | 0.00 | 53 | 634.33 |
| 6.850 | 0.02 | 0.59 | 0.61 | 0.01 | 0.00 | 54 | 634.33 |
| 6.900 | 0.02 | 0.60 | 0.62 | 0.01 | 0.00 | 55 | 634.33 |
| 6.950 | 0.02 | 0.61 | 0.63 | 0.01 | 0.00 | 56 | 634.33 |
| 7.000 | 0.02 | 0.62 | 0.64 | 0.01 | 0.00 | 57 | 634.33 |
| 7.050 | 0.02 | 0.63 | 0.65 | 0.01 | 0.00 | 58 | 634.33 |
| 7.100 | 0.02 | 0.64 | 0.66 | 0.01 | 0.00 | 59 | 634.33 |
| 7.150 | 0.02 | 0.65 | 0.68 | 0.01 | 0.00 | 60 | 634.33 |
| 7.200 | 0.02 | 0.66 | 0.69 | 0.01 | 0.00 | 61 | 634.33 |
| 7.250 | 0.02 | 0.67 | 0.70 | 0.01 | 0.00 | 62 | 634.33 |
| 7.300 | 0.02 | 0.68 | 0.71 | 0.01 | 0.00 | 63 | 634.33 |
| 7.350 | 0.02 | 0.69 | 0.72 | 0.01 | 0.00 | 64 | 634.33 |
| 7.400 | 0.02 | 0.70 | 0.73 | 0.01 | 0.00 | 65 | 634.33 |
| 7.450 | 0.02 | 0.72 | 0.75 | 0.01 | 0.00 | 66 | 634.33 |
| 7.500 | 0.02 | 0.73 | 0.76 | 0.02 | 0.00 | 67 | 634.33 |
| 7.550 | 0.02 | 0.74 | 0.77 | 0.02 | 0.00 | 68 | 634.33 |
| 7.600 | 0.02 | 0.75 | 0.78 | 0.02 | 0.00 | 69 | 634.33 |
| 7.650 | 0.02 | 0.76 | 0.80 | 0.02 | 0.00 | 70 | 634.33 |
| 7.700 | 0.02 | 0.78 | 0.81 | 0.02 | 0.00 | 71 | 634.33 |
| 7.750 | 0.02 | 0.79 | 0.82 | 0.02 | 0.00 | 72 | 634.33 |
| 7.800 | 0.02 | 0.80 | 0.84 | 0.02 | 0.00 | 74 | 634.33 |
| 7.850 | 0.02 | 0.81 | 0.85 | 0.02 | 0.00 | 75 | 634.33 |
| 7.900 | 0.02 | 0.83 | 0.86 | 0.02 | 0.00 | 76 | 634.33 |
| 7.950 | 0.02 | 0.84 | 0.87 | 0.02 | 0.00 | 77 | 634.33 |
| 8.000 | 0.02 | 0.85 | 0.89 | 0.02 | 0.00 | 78 | 634.33 |
| 8.050 | 0.02 | 0.87 | 0.90 | 0.02 | 0.00 | 80 | 634.33 |
| 8.100 | 0.03 | 0.88 | 0.92 | 0.02 | 0.00 | 81 | 634.33 |
| 8.150 | 0.03 | 0.89 | 0.93 | 0.02 | 0.00 | 82 | 634.33 |
| 8.200 | 0.03 | 0.91 | 0.95 | 0.02 | 0.00 | 83 | 634.33 |
| 8.250 | 0.03 | 0.92 | 0.96 | 0.02 | 0.00 | 85 | 634.33 |
| 8.300 | 0.03 | 0.94 | 0.98 | 0.02 | 0.00 | 86 | 634.33 |
| 8.350 | 0.03 | 0.96 | 1.00 | 0.02 | 0.00 | 88 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - O (ft ³ /s) | 2S/t + O (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 8.400 | 0.03 | 0.97 | 1.01 | 0.02 | 0.00 | 89 | 634.33 |
| 8.450 | 0.03 | 0.99 | 1.03 | 0.02 | 0.00 | 91 | 634.33 |
| 8.500 | 0.03 | 1.01 | 1.05 | 0.02 | 0.00 | 93 | 634.33 |
| 8.550 | 0.03 | 1.03 | 1.07 | 0.02 | 0.00 | 94 | 634.33 |
| 8.600 | 0.03 | 1.05 | 1.09 | 0.02 | 0.00 | 96 | 634.33 |
| 8.650 | 0.03 | 1.07 | 1.11 | 0.02 | 0.00 | 98 | 634.33 |
| 8.700 | 0.03 | 1.09 | 1.13 | 0.02 | 0.00 | 100 | 634.33 |
| 8.750 | 0.03 | 1.11 | 1.15 | 0.02 | 0.00 | 102 | 634.33 |
| 8.800 | 0.03 | 1.13 | 1.18 | 0.02 | 0.00 | 104 | 634.33 |
| 8.850 | 0.04 | 1.15 | 1.20 | 0.02 | 0.00 | 106 | 634.33 |
| 8.900 | 0.04 | 1.17 | 1.22 | 0.02 | 0.00 | 108 | 634.33 |
| 8.950 | 0.04 | 1.19 | 1.24 | 0.02 | 0.00 | 110 | 634.34 |
| 9.000 | 0.04 | 1.22 | 1.27 | 0.03 | 0.00 | 112 | 634.34 |
| 9.050 | 0.04 | 1.24 | 1.29 | 0.03 | 0.00 | 114 | 634.34 |
| 9.100 | 0.04 | 1.26 | 1.32 | 0.03 | 0.00 | 116 | 634.34 |
| 9.150 | 0.04 | 1.29 | 1.34 | 0.03 | 0.00 | 118 | 634.34 |
| 9.200 | 0.04 | 1.31 | 1.37 | 0.03 | 0.00 | 121 | 634.34 |
| 9.250 | 0.04 | 1.34 | 1.39 | 0.03 | 0.00 | 123 | 634.34 |
| 9.300 | 0.04 | 1.36 | 1.42 | 0.03 | 0.00 | 125 | 634.34 |
| 9.350 | 0.04 | 1.39 | 1.45 | 0.03 | 0.00 | 127 | 634.34 |
| 9.400 | 0.04 | 1.41 | 1.47 | 0.03 | 0.00 | 130 | 634.34 |
| 9.450 | 0.04 | 1.44 | 1.50 | 0.03 | 0.00 | 132 | 634.34 |
| 9.500 | 0.04 | 1.47 | 1.53 | 0.03 | 0.00 | 135 | 634.34 |
| 9.550 | 0.04 | 1.49 | 1.55 | 0.03 | 0.00 | 137 | 634.34 |
| 9.600 | 0.05 | 1.52 | 1.58 | 0.03 | 0.00 | 140 | 634.34 |
| 9.650 | 0.05 | 1.55 | 1.61 | 0.03 | 0.00 | 142 | 634.34 |
| 9.700 | 0.05 | 1.57 | 1.64 | 0.03 | 0.00 | 145 | 634.34 |
| 9.750 | 0.05 | 1.60 | 1.67 | 0.03 | 0.00 | 147 | 634.34 |
| 9.800 | 0.05 | 1.63 | 1.70 | 0.03 | 0.00 | 150 | 634.34 |
| 9.850 | 0.05 | 1.66 | 1.73 | 0.03 | 0.00 | 152 | 634.34 |
| 9.900 | 0.05 | 1.69 | 1.76 | 0.04 | 0.00 | 155 | 634.34 |
| 9.950 | 0.05 | 1.71 | 1.79 | 0.04 | 0.00 | 158 | 634.34 |
| 10.000 | 0.05 | 1.74 | 1.82 | 0.04 | 0.00 | 160 | 634.34 |
| 10.050 | 0.05 | 1.77 | 1.85 | 0.04 | 0.00 | 163 | 634.34 |
| 10.100 | 0.05 | 1.80 | 1.88 | 0.04 | 0.00 | 166 | 634.34 |
| 10.150 | 0.05 | 1.83 | 1.91 | 0.04 | 0.00 | 168 | 634.34 |
| 10.200 | 0.06 | 1.87 | 1.94 | 0.04 | 0.00 | 171 | 634.34 |
| 10.250 | 0.06 | 1.90 | 1.98 | 0.04 | 0.00 | 174 | 634.34 |
| 10.300 | 0.06 | 1.93 | 2.02 | 0.04 | 0.00 | 178 | 634.34 |
| 10.350 | 0.06 | 1.97 | 2.05 | 0.04 | 0.00 | 181 | 634.35 |
| 10.400 | 0.06 | 2.01 | 2.09 | 0.04 | 0.00 | 184 | 634.35 |
| 10.450 | 0.06 | 2.05 | 2.13 | 0.04 | 0.00 | 188 | 634.35 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 10.500 | 0.06 | 2.09 | 2.17 | 0.04 | 0.00 | 192 | 634.35 |
| 10.550 | 0.07 | 2.13 | 2.22 | 0.04 | 0.00 | 195 | 634.35 |
| 10.600 | 0.07 | 2.17 | 2.26 | 0.05 | 0.00 | 199 | 634.35 |
| 10.650 | 0.07 | 2.21 | 2.30 | 0.05 | 0.00 | 203 | 634.35 |
| 10.700 | 0.07 | 2.26 | 2.35 | 0.05 | 0.00 | 207 | 634.35 |
| 10.750 | 0.07 | 2.30 | 2.40 | 0.05 | 0.00 | 211 | 634.35 |
| 10.800 | 0.07 | 2.35 | 2.45 | 0.05 | 0.00 | 216 | 634.35 |
| 10.850 | 0.07 | 2.39 | 2.49 | 0.05 | 0.00 | 220 | 634.35 |
| 10.900 | 0.08 | 2.44 | 2.54 | 0.05 | 0.00 | 224 | 634.35 |
| 10.950 | 0.08 | 2.49 | 2.59 | 0.05 | 0.00 | 229 | 634.35 |
| 11.000 | 0.08 | 2.54 | 2.65 | 0.05 | 0.00 | 233 | 634.35 |
| 11.050 | 0.08 | 2.59 | 2.70 | 0.05 | 0.00 | 238 | 634.35 |
| 11.100 | 0.08 | 2.65 | 2.76 | 0.06 | 0.00 | 243 | 634.35 |
| 11.150 | 0.09 | 2.71 | 2.82 | 0.06 | 0.00 | 249 | 634.35 |
| 11.200 | 0.09 | 2.77 | 2.89 | 0.06 | 0.00 | 255 | 634.36 |
| 11.250 | 0.10 | 2.85 | 2.97 | 0.06 | 0.00 | 262 | 634.36 |
| 11.300 | 0.10 | 2.93 | 3.05 | 0.06 | 0.00 | 269 | 634.36 |
| 11.350 | 0.11 | 3.02 | 3.14 | 0.06 | 0.00 | 277 | 634.36 |
| 11.400 | 0.12 | 3.11 | 3.24 | 0.07 | 0.00 | 286 | 634.36 |
| 11.450 | 0.12 | 3.21 | 3.35 | 0.07 | 0.00 | 295 | 634.36 |
| 11.500 | 0.13 | 3.32 | 3.46 | 0.07 | 0.00 | 305 | 634.36 |
| 11.550 | 0.15 | 3.45 | 3.60 | 0.07 | 0.00 | 317 | 634.36 |
| 11.600 | 0.17 | 3.62 | 3.77 | 0.08 | 0.00 | 333 | 634.37 |
| 11.650 | 0.22 | 3.85 | 4.01 | 0.08 | 0.00 | 354 | 634.37 |
| 11.700 | 0.27 | 4.16 | 4.34 | 0.09 | 0.00 | 383 | 634.37 |
| 11.750 | 0.32 | 4.56 | 4.75 | 0.10 | 0.00 | 419 | 634.38 |
| 11.800 | 0.37 | 5.03 | 5.24 | 0.11 | 0.00 | 462 | 634.38 |
| 11.850 | 0.42 | 5.58 | 5.81 | 0.12 | 0.00 | 513 | 634.39 |
| 11.900 | 0.47 | 6.21 | 6.47 | 0.13 | 0.00 | 570 | 634.40 |
| 11.950 | 0.66 | 7.04 | 7.33 | 0.15 | 0.00 | 647 | 634.41 |
| 12.000 | 0.89 | 8.24 | 8.59 | 0.17 | 0.00 | 757 | 634.43 |
| 12.050 | 0.95 | 9.67 | 10.07 | 0.20 | 0.00 | 888 | 634.44 |
| 12.100 | 0.96 | 11.11 | 11.58 | 0.23 | 0.00 | 1,021 | 634.46 |
| 12.150 | 0.79 | 12.34 | 12.86 | 0.26 | 0.00 | 1,134 | 634.48 |
| 12.200 | 0.56 | 13.14 | 13.69 | 0.28 | 0.00 | 1,208 | 634.49 |
| 12.250 | 0.47 | 13.61 | 14.18 | 0.28 | 0.00 | 1,250 | 634.49 |
| 12.300 | 0.41 | 13.91 | 14.49 | 0.29 | 0.00 | 1,278 | 634.50 |
| 12.350 | 0.36 | 14.08 | 14.67 | 0.29 | 0.00 | 1,294 | 634.50 |
| 12.400 | 0.31 | 14.15 | 14.75 | 0.30 | 0.00 | 1,300 | 634.50 |
| 12.450 | 0.26 | 14.12 | 14.71 | 0.30 | 0.00 | 1,298 | 634.50 |
| 12.500 | 0.20 | 14.00 | 14.58 | 0.29 | 0.00 | 1,286 | 634.50 |
| 12.550 | 0.17 | 13.79 | 14.37 | 0.29 | 0.00 | 1,268 | 634.50 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 12.600 | 0.14 | 13.54 | 14.11 | 0.28 | 0.00 | 1,244 | 634.49 |
| 12.650 | 0.13 | 13.26 | 13.81 | 0.28 | 0.00 | 1,218 | 634.49 |
| 12.700 | 0.12 | 12.97 | 13.51 | 0.27 | 0.00 | 1,192 | 634.49 |
| 12.750 | 0.12 | 12.68 | 13.21 | 0.27 | 0.00 | 1,165 | 634.48 |
| 12.800 | 0.11 | 12.39 | 12.91 | 0.26 | 0.00 | 1,138 | 634.48 |
| 12.850 | 0.11 | 12.10 | 12.61 | 0.25 | 0.00 | 1,112 | 634.47 |
| 12.900 | 0.10 | 11.82 | 12.31 | 0.25 | 0.00 | 1,086 | 634.47 |
| 12.950 | 0.10 | 11.53 | 12.02 | 0.24 | 0.00 | 1,060 | 634.47 |
| 13.000 | 0.09 | 11.25 | 11.72 | 0.24 | 0.00 | 1,034 | 634.46 |
| 13.050 | 0.09 | 10.97 | 11.43 | 0.23 | 0.00 | 1,008 | 634.46 |
| 13.100 | 0.08 | 10.69 | 11.14 | 0.22 | 0.00 | 983 | 634.46 |
| 13.150 | 0.08 | 10.42 | 10.86 | 0.22 | 0.00 | 958 | 634.45 |
| 13.200 | 0.08 | 10.16 | 10.59 | 0.21 | 0.00 | 934 | 634.45 |
| 13.250 | 0.08 | 9.91 | 10.32 | 0.21 | 0.00 | 910 | 634.45 |
| 13.300 | 0.08 | 9.66 | 10.07 | 0.20 | 0.00 | 888 | 634.44 |
| 13.350 | 0.08 | 9.42 | 9.82 | 0.20 | 0.00 | 866 | 634.44 |
| 13.400 | 0.08 | 9.19 | 9.57 | 0.19 | 0.00 | 844 | 634.44 |
| 13.450 | 0.07 | 8.96 | 9.34 | 0.19 | 0.00 | 823 | 634.43 |
| 13.500 | 0.07 | 8.74 | 9.11 | 0.18 | 0.00 | 803 | 634.43 |
| 13.550 | 0.07 | 8.53 | 8.89 | 0.18 | 0.00 | 784 | 634.43 |
| 13.600 | 0.07 | 8.32 | 8.67 | 0.17 | 0.00 | 765 | 634.43 |
| 13.650 | 0.07 | 8.12 | 8.46 | 0.17 | 0.00 | 746 | 634.42 |
| 13.700 | 0.07 | 7.92 | 8.25 | 0.17 | 0.00 | 728 | 634.42 |
| 13.750 | 0.07 | 7.73 | 8.05 | 0.16 | 0.00 | 710 | 634.42 |
| 13.800 | 0.06 | 7.54 | 7.86 | 0.16 | 0.00 | 693 | 634.42 |
| 13.850 | 0.06 | 7.36 | 7.67 | 0.15 | 0.00 | 677 | 634.41 |
| 13.900 | 0.06 | 7.19 | 7.49 | 0.15 | 0.00 | 660 | 634.41 |
| 13.950 | 0.06 | 7.01 | 7.31 | 0.15 | 0.00 | 644 | 634.41 |
| 14.000 | 0.06 | 6.85 | 7.13 | 0.14 | 0.00 | 629 | 634.41 |
| 14.050 | 0.06 | 6.68 | 6.96 | 0.14 | 0.00 | 614 | 634.41 |
| 14.100 | 0.06 | 6.52 | 6.80 | 0.14 | 0.00 | 599 | 634.40 |
| 14.150 | 0.06 | 6.37 | 6.63 | 0.13 | 0.00 | 585 | 634.40 |
| 14.200 | 0.05 | 6.22 | 6.48 | 0.13 | 0.00 | 571 | 634.40 |
| 14.250 | 0.05 | 6.07 | 6.33 | 0.13 | 0.00 | 558 | 634.40 |
| 14.300 | 0.05 | 5.93 | 6.18 | 0.12 | 0.00 | 545 | 634.40 |
| 14.350 | 0.05 | 5.80 | 6.04 | 0.12 | 0.00 | 533 | 634.39 |
| 14.400 | 0.05 | 5.66 | 5.90 | 0.12 | 0.00 | 521 | 634.39 |
| 14.450 | 0.05 | 5.54 | 5.77 | 0.12 | 0.00 | 509 | 634.39 |
| 14.500 | 0.05 | 5.41 | 5.64 | 0.11 | 0.00 | 497 | 634.39 |
| 14.550 | 0.05 | 5.29 | 5.51 | 0.11 | 0.00 | 486 | 634.39 |
| 14.600 | 0.05 | 5.18 | 5.39 | 0.11 | 0.00 | 476 | 634.39 |
| 14.650 | 0.05 | 5.06 | 5.27 | 0.11 | 0.00 | 465 | 634.38 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 14.700 | 0.05 | 4.95 | 5.16 | 0.10 | 0.00 | 455 | 634.38 |
| 14.750 | 0.05 | 4.85 | 5.05 | 0.10 | 0.00 | 445 | 634.38 |
| 14.800 | 0.05 | 4.74 | 4.94 | 0.10 | 0.00 | 436 | 634.38 |
| 14.850 | 0.05 | 4.64 | 4.84 | 0.10 | 0.00 | 426 | 634.38 |
| 14.900 | 0.05 | 4.54 | 4.73 | 0.10 | 0.00 | 417 | 634.38 |
| 14.950 | 0.04 | 4.45 | 4.63 | 0.09 | 0.00 | 409 | 634.38 |
| 15.000 | 0.04 | 4.35 | 4.54 | 0.09 | 0.00 | 400 | 634.38 |
| 15.050 | 0.04 | 4.26 | 4.44 | 0.09 | 0.00 | 392 | 634.37 |
| 15.100 | 0.04 | 4.18 | 4.35 | 0.09 | 0.00 | 384 | 634.37 |
| 15.150 | 0.04 | 4.09 | 4.26 | 0.09 | 0.00 | 376 | 634.37 |
| 15.200 | 0.04 | 4.01 | 4.17 | 0.08 | 0.00 | 368 | 634.37 |
| 15.250 | 0.04 | 3.92 | 4.09 | 0.08 | 0.00 | 361 | 634.37 |
| 15.300 | 0.04 | 3.84 | 4.01 | 0.08 | 0.00 | 353 | 634.37 |
| 15.350 | 0.04 | 3.77 | 3.92 | 0.08 | 0.00 | 346 | 634.37 |
| 15.400 | 0.04 | 3.69 | 3.85 | 0.08 | 0.00 | 339 | 634.37 |
| 15.450 | 0.04 | 3.62 | 3.77 | 0.08 | 0.00 | 332 | 634.37 |
| 15.500 | 0.04 | 3.54 | 3.69 | 0.07 | 0.00 | 326 | 634.37 |
| 15.550 | 0.04 | 3.47 | 3.62 | 0.07 | 0.00 | 319 | 634.36 |
| 15.600 | 0.04 | 3.40 | 3.55 | 0.07 | 0.00 | 313 | 634.36 |
| 15.650 | 0.04 | 3.34 | 3.48 | 0.07 | 0.00 | 307 | 634.36 |
| 15.700 | 0.03 | 3.27 | 3.41 | 0.07 | 0.00 | 301 | 634.36 |
| 15.750 | 0.03 | 3.21 | 3.34 | 0.07 | 0.00 | 295 | 634.36 |
| 15.800 | 0.03 | 3.14 | 3.27 | 0.07 | 0.00 | 289 | 634.36 |
| 15.850 | 0.03 | 3.08 | 3.21 | 0.06 | 0.00 | 283 | 634.36 |
| 15.900 | 0.03 | 3.02 | 3.15 | 0.06 | 0.00 | 277 | 634.36 |
| 15.950 | 0.03 | 2.96 | 3.08 | 0.06 | 0.00 | 272 | 634.36 |
| 16.000 | 0.03 | 2.90 | 3.02 | 0.06 | 0.00 | 267 | 634.36 |
| 16.050 | 0.03 | 2.84 | 2.96 | 0.06 | 0.00 | 261 | 634.36 |
| 16.100 | 0.03 | 2.79 | 2.90 | 0.06 | 0.00 | 256 | 634.36 |
| 16.150 | 0.03 | 2.73 | 2.85 | 0.06 | 0.00 | 251 | 634.35 |
| 16.200 | 0.03 | 2.68 | 2.79 | 0.06 | 0.00 | 246 | 634.35 |
| 16.250 | 0.03 | 2.63 | 2.74 | 0.06 | 0.00 | 241 | 634.35 |
| 16.300 | 0.03 | 2.58 | 2.69 | 0.05 | 0.00 | 237 | 634.35 |
| 16.350 | 0.03 | 2.53 | 2.63 | 0.05 | 0.00 | 232 | 634.35 |
| 16.400 | 0.03 | 2.48 | 2.59 | 0.05 | 0.00 | 228 | 634.35 |
| 16.450 | 0.03 | 2.44 | 2.54 | 0.05 | 0.00 | 224 | 634.35 |
| 16.500 | 0.03 | 2.39 | 2.49 | 0.05 | 0.00 | 220 | 634.35 |
| 16.550 | 0.03 | 2.35 | 2.45 | 0.05 | 0.00 | 216 | 634.35 |
| 16.600 | 0.03 | 2.31 | 2.40 | 0.05 | 0.00 | 212 | 634.35 |
| 16.650 | 0.03 | 2.26 | 2.36 | 0.05 | 0.00 | 208 | 634.35 |
| 16.700 | 0.03 | 2.22 | 2.32 | 0.05 | 0.00 | 204 | 634.35 |
| 16.750 | 0.03 | 2.19 | 2.28 | 0.05 | 0.00 | 201 | 634.35 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - 0 (ft ³ /s) | 2S/t + 0 (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 16.800 | 0.03 | 2.15 | 2.24 | 0.04 | 0.00 | 197 | 634.35 |
| 16.850 | 0.03 | 2.11 | 2.20 | 0.04 | 0.00 | 194 | 634.35 |
| 16.900 | 0.03 | 2.08 | 2.16 | 0.04 | 0.00 | 191 | 634.35 |
| 16.950 | 0.03 | 2.04 | 2.13 | 0.04 | 0.00 | 187 | 634.35 |
| 17.000 | 0.02 | 2.01 | 2.09 | 0.04 | 0.00 | 184 | 634.35 |
| 17.050 | 0.02 | 1.97 | 2.06 | 0.04 | 0.00 | 181 | 634.35 |
| 17.100 | 0.02 | 1.94 | 2.02 | 0.04 | 0.00 | 178 | 634.34 |
| 17.150 | 0.02 | 1.91 | 1.99 | 0.04 | 0.00 | 175 | 634.34 |
| 17.200 | 0.02 | 1.88 | 1.96 | 0.04 | 0.00 | 172 | 634.34 |
| 17.250 | 0.02 | 1.85 | 1.92 | 0.04 | 0.00 | 170 | 634.34 |
| 17.300 | 0.02 | 1.82 | 1.89 | 0.04 | 0.00 | 167 | 634.34 |
| 17.350 | 0.02 | 1.79 | 1.86 | 0.04 | 0.00 | 164 | 634.34 |
| 17.400 | 0.02 | 1.76 | 1.83 | 0.04 | 0.00 | 162 | 634.34 |
| 17.450 | 0.02 | 1.73 | 1.80 | 0.04 | 0.00 | 159 | 634.34 |
| 17.500 | 0.02 | 1.70 | 1.77 | 0.04 | 0.00 | 157 | 634.34 |
| 17.550 | 0.02 | 1.68 | 1.75 | 0.04 | 0.00 | 154 | 634.34 |
| 17.600 | 0.02 | 1.65 | 1.72 | 0.03 | 0.00 | 152 | 634.34 |
| 17.650 | 0.02 | 1.62 | 1.69 | 0.03 | 0.00 | 149 | 634.34 |
| 17.700 | 0.02 | 1.60 | 1.67 | 0.03 | 0.00 | 147 | 634.34 |
| 17.750 | 0.02 | 1.57 | 1.64 | 0.03 | 0.00 | 145 | 634.34 |
| 17.800 | 0.02 | 1.55 | 1.62 | 0.03 | 0.00 | 142 | 634.34 |
| 17.850 | 0.02 | 1.53 | 1.59 | 0.03 | 0.00 | 140 | 634.34 |
| 17.900 | 0.02 | 1.50 | 1.57 | 0.03 | 0.00 | 138 | 634.34 |
| 17.950 | 0.02 | 1.48 | 1.54 | 0.03 | 0.00 | 136 | 634.34 |
| 18.000 | 0.02 | 1.46 | 1.52 | 0.03 | 0.00 | 134 | 634.34 |
| 18.050 | 0.02 | 1.43 | 1.49 | 0.03 | 0.00 | 132 | 634.34 |
| 18.100 | 0.02 | 1.41 | 1.47 | 0.03 | 0.00 | 130 | 634.34 |
| 18.150 | 0.02 | 1.39 | 1.45 | 0.03 | 0.00 | 128 | 634.34 |
| 18.200 | 0.02 | 1.37 | 1.43 | 0.03 | 0.00 | 126 | 634.34 |
| 18.250 | 0.02 | 1.35 | 1.41 | 0.03 | 0.00 | 124 | 634.34 |
| 18.300 | 0.02 | 1.33 | 1.39 | 0.03 | 0.00 | 122 | 634.34 |
| 18.350 | 0.02 | 1.31 | 1.37 | 0.03 | 0.00 | 121 | 634.34 |
| 18.400 | 0.02 | 1.29 | 1.35 | 0.03 | 0.00 | 119 | 634.34 |
| 18.450 | 0.02 | 1.28 | 1.33 | 0.03 | 0.00 | 117 | 634.34 |
| 18.500 | 0.02 | 1.26 | 1.31 | 0.03 | 0.00 | 116 | 634.34 |
| 18.550 | 0.02 | 1.24 | 1.29 | 0.03 | 0.00 | 114 | 634.34 |
| 18.600 | 0.02 | 1.23 | 1.28 | 0.03 | 0.00 | 113 | 634.34 |
| 18.650 | 0.02 | 1.21 | 1.26 | 0.03 | 0.00 | 111 | 634.34 |
| 18.700 | 0.02 | 1.20 | 1.25 | 0.03 | 0.00 | 110 | 634.34 |
| 18.750 | 0.02 | 1.18 | 1.23 | 0.02 | 0.00 | 109 | 634.34 |
| 18.800 | 0.02 | 1.17 | 1.22 | 0.02 | 0.00 | 107 | 634.33 |
| 18.850 | 0.02 | 1.15 | 1.20 | 0.02 | 0.00 | 106 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - O (ft ³ /s) | 2S/t + O (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 18.900 | 0.02 | 1.14 | 1.19 | 0.02 | 0.00 | 105 | 634.33 |
| 18.950 | 0.02 | 1.13 | 1.17 | 0.02 | 0.00 | 104 | 634.33 |
| 19.000 | 0.02 | 1.11 | 1.16 | 0.02 | 0.00 | 102 | 634.33 |
| 19.050 | 0.02 | 1.10 | 1.15 | 0.02 | 0.00 | 101 | 634.33 |
| 19.100 | 0.02 | 1.09 | 1.14 | 0.02 | 0.00 | 100 | 634.33 |
| 19.150 | 0.02 | 1.08 | 1.12 | 0.02 | 0.00 | 99 | 634.33 |
| 19.200 | 0.02 | 1.07 | 1.11 | 0.02 | 0.00 | 98 | 634.33 |
| 19.250 | 0.02 | 1.06 | 1.10 | 0.02 | 0.00 | 97 | 634.33 |
| 19.300 | 0.02 | 1.04 | 1.09 | 0.02 | 0.00 | 96 | 634.33 |
| 19.350 | 0.02 | 1.03 | 1.08 | 0.02 | 0.00 | 95 | 634.33 |
| 19.400 | 0.02 | 1.02 | 1.07 | 0.02 | 0.00 | 94 | 634.33 |
| 19.450 | 0.02 | 1.01 | 1.06 | 0.02 | 0.00 | 93 | 634.33 |
| 19.500 | 0.02 | 1.00 | 1.05 | 0.02 | 0.00 | 92 | 634.33 |
| 19.550 | 0.02 | 0.99 | 1.04 | 0.02 | 0.00 | 91 | 634.33 |
| 19.600 | 0.02 | 0.99 | 1.03 | 0.02 | 0.00 | 91 | 634.33 |
| 19.650 | 0.02 | 0.98 | 1.02 | 0.02 | 0.00 | 90 | 634.33 |
| 19.700 | 0.02 | 0.97 | 1.01 | 0.02 | 0.00 | 89 | 634.33 |
| 19.750 | 0.02 | 0.96 | 1.00 | 0.02 | 0.00 | 88 | 634.33 |
| 19.800 | 0.02 | 0.95 | 0.99 | 0.02 | 0.00 | 87 | 634.33 |
| 19.850 | 0.02 | 0.94 | 0.98 | 0.02 | 0.00 | 86 | 634.33 |
| 19.900 | 0.02 | 0.93 | 0.97 | 0.02 | 0.00 | 86 | 634.33 |
| 19.950 | 0.02 | 0.92 | 0.96 | 0.02 | 0.00 | 85 | 634.33 |
| 20.000 | 0.02 | 0.92 | 0.96 | 0.02 | 0.00 | 84 | 634.33 |
| 20.050 | 0.02 | 0.91 | 0.95 | 0.02 | 0.00 | 84 | 634.33 |
| 20.100 | 0.02 | 0.90 | 0.94 | 0.02 | 0.00 | 83 | 634.33 |
| 20.150 | 0.01 | 0.89 | 0.93 | 0.02 | 0.00 | 82 | 634.33 |
| 20.200 | 0.01 | 0.89 | 0.92 | 0.02 | 0.00 | 82 | 634.33 |
| 20.250 | 0.01 | 0.88 | 0.92 | 0.02 | 0.00 | 81 | 634.33 |
| 20.300 | 0.01 | 0.87 | 0.91 | 0.02 | 0.00 | 80 | 634.33 |
| 20.350 | 0.01 | 0.87 | 0.90 | 0.02 | 0.00 | 80 | 634.33 |
| 20.400 | 0.01 | 0.86 | 0.90 | 0.02 | 0.00 | 79 | 634.33 |
| 20.450 | 0.01 | 0.85 | 0.89 | 0.02 | 0.00 | 78 | 634.33 |
| 20.500 | 0.01 | 0.85 | 0.88 | 0.02 | 0.00 | 78 | 634.33 |
| 20.550 | 0.01 | 0.84 | 0.88 | 0.02 | 0.00 | 77 | 634.33 |
| 20.600 | 0.01 | 0.83 | 0.87 | 0.02 | 0.00 | 77 | 634.33 |
| 20.650 | 0.01 | 0.83 | 0.86 | 0.02 | 0.00 | 76 | 634.33 |
| 20.700 | 0.01 | 0.82 | 0.86 | 0.02 | 0.00 | 76 | 634.33 |
| 20.750 | 0.01 | 0.82 | 0.85 | 0.02 | 0.00 | 75 | 634.33 |
| 20.800 | 0.01 | 0.81 | 0.85 | 0.02 | 0.00 | 75 | 634.33 |
| 20.850 | 0.01 | 0.81 | 0.84 | 0.02 | 0.00 | 74 | 634.33 |
| 20.900 | 0.01 | 0.80 | 0.83 | 0.02 | 0.00 | 74 | 634.33 |
| 20.950 | 0.01 | 0.79 | 0.83 | 0.02 | 0.00 | 73 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - O (ft ³ /s) | 2S/t + O (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 21.000 | 0.01 | 0.79 | 0.82 | 0.02 | 0.00 | 73 | 634.33 |
| 21.050 | 0.01 | 0.78 | 0.82 | 0.02 | 0.00 | 72 | 634.33 |
| 21.100 | 0.01 | 0.78 | 0.81 | 0.02 | 0.00 | 72 | 634.33 |
| 21.150 | 0.01 | 0.77 | 0.81 | 0.02 | 0.00 | 71 | 634.33 |
| 21.200 | 0.01 | 0.77 | 0.80 | 0.02 | 0.00 | 71 | 634.33 |
| 21.250 | 0.01 | 0.76 | 0.80 | 0.02 | 0.00 | 70 | 634.33 |
| 21.300 | 0.01 | 0.76 | 0.79 | 0.02 | 0.00 | 70 | 634.33 |
| 21.350 | 0.01 | 0.76 | 0.79 | 0.02 | 0.00 | 69 | 634.33 |
| 21.400 | 0.01 | 0.75 | 0.78 | 0.02 | 0.00 | 69 | 634.33 |
| 21.450 | 0.01 | 0.75 | 0.78 | 0.02 | 0.00 | 69 | 634.33 |
| 21.500 | 0.01 | 0.74 | 0.77 | 0.02 | 0.00 | 68 | 634.33 |
| 21.550 | 0.01 | 0.74 | 0.77 | 0.02 | 0.00 | 68 | 634.33 |
| 21.600 | 0.01 | 0.73 | 0.76 | 0.02 | 0.00 | 67 | 634.33 |
| 21.650 | 0.01 | 0.73 | 0.76 | 0.02 | 0.00 | 67 | 634.33 |
| 21.700 | 0.01 | 0.72 | 0.75 | 0.02 | 0.00 | 66 | 634.33 |
| 21.750 | 0.01 | 0.72 | 0.75 | 0.02 | 0.00 | 66 | 634.33 |
| 21.800 | 0.01 | 0.72 | 0.74 | 0.01 | 0.00 | 66 | 634.33 |
| 21.850 | 0.01 | 0.71 | 0.74 | 0.01 | 0.00 | 65 | 634.33 |
| 21.900 | 0.01 | 0.71 | 0.74 | 0.01 | 0.00 | 65 | 634.33 |
| 21.950 | 0.01 | 0.70 | 0.73 | 0.01 | 0.00 | 65 | 634.33 |
| 22.000 | 0.01 | 0.70 | 0.73 | 0.01 | 0.00 | 64 | 634.33 |
| 22.050 | 0.01 | 0.69 | 0.72 | 0.01 | 0.00 | 64 | 634.33 |
| 22.100 | 0.01 | 0.69 | 0.72 | 0.01 | 0.00 | 63 | 634.33 |
| 22.150 | 0.01 | 0.69 | 0.72 | 0.01 | 0.00 | 63 | 634.33 |
| 22.200 | 0.01 | 0.68 | 0.71 | 0.01 | 0.00 | 63 | 634.33 |
| 22.250 | 0.01 | 0.68 | 0.71 | 0.01 | 0.00 | 62 | 634.33 |
| 22.300 | 0.01 | 0.67 | 0.70 | 0.01 | 0.00 | 62 | 634.33 |
| 22.350 | 0.01 | 0.67 | 0.70 | 0.01 | 0.00 | 62 | 634.33 |
| 22.400 | 0.01 | 0.67 | 0.70 | 0.01 | 0.00 | 61 | 634.33 |
| 22.450 | 0.01 | 0.66 | 0.69 | 0.01 | 0.00 | 61 | 634.33 |
| 22.500 | 0.01 | 0.66 | 0.69 | 0.01 | 0.00 | 61 | 634.33 |
| 22.550 | 0.01 | 0.66 | 0.68 | 0.01 | 0.00 | 60 | 634.33 |
| 22.600 | 0.01 | 0.65 | 0.68 | 0.01 | 0.00 | 60 | 634.33 |
| 22.650 | 0.01 | 0.65 | 0.68 | 0.01 | 0.00 | 60 | 634.33 |
| 22.700 | 0.01 | 0.65 | 0.67 | 0.01 | 0.00 | 59 | 634.33 |
| 22.750 | 0.01 | 0.64 | 0.67 | 0.01 | 0.00 | 59 | 634.33 |
| 22.800 | 0.01 | 0.64 | 0.66 | 0.01 | 0.00 | 59 | 634.33 |
| 22.850 | 0.01 | 0.63 | 0.66 | 0.01 | 0.00 | 58 | 634.33 |
| 22.900 | 0.01 | 0.63 | 0.66 | 0.01 | 0.00 | 58 | 634.33 |
| 22.950 | 0.01 | 0.63 | 0.65 | 0.01 | 0.00 | 58 | 634.33 |
| 23.000 | 0.01 | 0.62 | 0.65 | 0.01 | 0.00 | 57 | 634.33 |
| 23.050 | 0.01 | 0.62 | 0.65 | 0.01 | 0.00 | 57 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Routing Calculations (Total Out)

Return Event: 1 years

Label: Permeable Asphalt (OUT)

Storm Event: 1 year

Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

| Time (hours) | Flow (Total In) (ft ³ /s) | 2S/t - O (ft ³ /s) | 2S/t + O (ft ³ /s) | Infiltration (ft ³ /s) | Flow (Outlet) (ft ³ /s) | Volume (ft ³) | Elevation (ft) |
|--------------|--------------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|---------------------------|----------------|
| 23.100 | 0.01 | 0.62 | 0.64 | 0.01 | 0.00 | 57 | 634.33 |
| 23.150 | 0.01 | 0.61 | 0.64 | 0.01 | 0.00 | 56 | 634.33 |
| 23.200 | 0.01 | 0.61 | 0.64 | 0.01 | 0.00 | 56 | 634.33 |
| 23.250 | 0.01 | 0.61 | 0.63 | 0.01 | 0.00 | 56 | 634.33 |
| 23.300 | 0.01 | 0.60 | 0.63 | 0.01 | 0.00 | 55 | 634.33 |
| 23.350 | 0.01 | 0.60 | 0.62 | 0.01 | 0.00 | 55 | 634.33 |
| 23.400 | 0.01 | 0.60 | 0.62 | 0.01 | 0.00 | 55 | 634.33 |
| 23.450 | 0.01 | 0.59 | 0.62 | 0.01 | 0.00 | 54 | 634.33 |
| 23.500 | 0.01 | 0.59 | 0.61 | 0.01 | 0.00 | 54 | 634.33 |
| 23.550 | 0.01 | 0.59 | 0.61 | 0.01 | 0.00 | 54 | 634.33 |
| 23.600 | 0.01 | 0.58 | 0.61 | 0.01 | 0.00 | 54 | 634.33 |
| 23.650 | 0.01 | 0.58 | 0.60 | 0.01 | 0.00 | 53 | 634.33 |
| 23.700 | 0.01 | 0.58 | 0.60 | 0.01 | 0.00 | 53 | 634.33 |
| 23.750 | 0.01 | 0.57 | 0.60 | 0.01 | 0.00 | 53 | 634.33 |
| 23.800 | 0.01 | 0.57 | 0.59 | 0.01 | 0.00 | 52 | 634.33 |
| 23.850 | 0.01 | 0.57 | 0.59 | 0.01 | 0.00 | 52 | 634.33 |
| 23.900 | 0.01 | 0.56 | 0.59 | 0.01 | 0.00 | 52 | 634.33 |
| 23.950 | 0.01 | 0.56 | 0.58 | 0.01 | 0.00 | 51 | 634.33 |
| 24.000 | 0.01 | 0.56 | 0.58 | 0.01 | 0.00 | 51 | 634.33 |

Stormwater Hydrologic Calculations

Subsection: Pond Inflow Summary
 Label: Permeable Asphalt (IN)
 Scenario: Post-Development 1 year

Return Event: 1 years
 Storm Event: 1 year

Summary for Hydrograph Addition at 'Permeable Asphalt'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| <Catchment to Outflow Node> | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------------------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | Permeable Asphalt | 3,850 | 12.100 | 0.96 |
| Flow (In) | Permeable Asphalt | 3,850 | 12.100 | 0.96 |

Stormwater Hydrologic Calculations

Subsection: Pond Inflow Summary

Label: Permeable Asphalt (IN)

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Summary for Hydrograph Addition at 'Permeable Asphalt'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| <Catchment to Outflow Node> | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------------------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | Permeable Asphalt | 7,318 | 12.100 | 1.78 |
| Flow (In) | Permeable Asphalt | 7,318 | 12.100 | 1.78 |

Stormwater Hydrologic Calculations

Subsection: Pond Inflow Summary

Label: Permeable Asphalt (IN)

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Summary for Hydrograph Addition at 'Permeable Asphalt'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| <Catchment to Outflow Node> | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------------------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | Permeable Asphalt | 9,294 | 12.100 | 2.24 |
| Flow (In) | Permeable Asphalt | 9,294 | 12.100 | 2.24 |

Stormwater Hydrologic Calculations

Subsection: Pond Inflow Summary
 Label: Permeable Asphalt (IN)
 Scenario: Post-Development 100 year

Return Event: 100 years
 Storm Event: 100 year

Summary for Hydrograph Addition at 'Permeable Asphalt'

| Upstream Link | Upstream Node |
|-----------------------------|-------------------|
| <Catchment to Outflow Node> | Permeable Asphalt |

Node Inflows

| Inflow Type | Element | Volume (ft ³) | Time to Peak (hours) | Flow (Peak) (ft ³ /s) |
|-------------|----------------------|------------------------------|-------------------------|-------------------------------------|
| Flow (From) | Permeable Asphalt | 13,337 | 12.100 | 3.18 |
| Flow (In) | Permeable Asphalt | 13,337 | 12.100 | 3.18 |

APPENDIX B

NYSDEC STORMWATER SIZING CALCULATIONS

**RUNOFF REDUCTION VOLUME, WATER QUALITY VOLUME AND
STREAM CHANNEL PROTECTION SIZING CALCULATIONS**

The Summit Club at Armonk
Bedford Road
Town of North Castle, NY

JMC Project: **20101**

Drawing Reference: **DA-1, DA-2**

Computed by: **MT**

Checked by: **XX**

Date Printed: 12/30/2021

**WATER QUALITY VOLUME WORKSHEET
FOR REDEVELOPMENT PROJECTS**

JMC Project: **20101**
Design Point: **1C**

The Summit Club at Armonk Drainage Area: **PDA-1C-2A/B**

Initial Water Quality Treatment Volume

| DESCRIPTION | Design Storm | Area | Existing Impervious Area | New Impervious Area | Percent Impervious | Runoff Coefficient | Total Required WQ Volume |
|-------------|---|-------|--------------------------|---------------------|--------------------|--------------------|--------------------------|
| SYMBOL | P | A | I _E | I _N | %I | R _V | WQ _V |
| VALUE | 1.5 | 18.90 | 6.50 | 2.62 | 48.28 | 0.484500625 | 49,865 |
| UNITS | In | Ac | Ac | Ac | % | CF | CF |
| VALUE | Enhanced Phosphorus Removal (WQ _V = 1-yr Storm Runoff) | | | | | | |

Runoff Reduction Techniques (Area)

| DESCRIPTION | Total Area | Impervious Area |
|--|------------|-----------------|
| SYMBOL | A | I |
| Conservation of Natural Areas | | |
| Sheetflow to Riparian Buffers or Filter Strips | | |
| Vegetated Swale | | |
| Tree Planting / Tree Pit | | |
| Disconnection of Rooftop Runoff | | |
| Stream Daylighting | | |
| TOTAL | | |
| UNITS | Ac | Ac |

Adjusted Water Quality Treatment Volume from Runoff Reduction Techniques

| DESCRIPTION | Design Storm | Area | Adjusted Existing Impervious Area | New Impervious Area | Percent Impervious | Runoff Coefficient | Total Required WQ Volume |
|-------------|---|-------|-----------------------------------|---------------------|--------------------|--------------------|--------------------------|
| SYMBOL | P | A | I _{EA} | I _N | %I | R _V | WQ _V |
| VALUE | 1.5 | 18.90 | 6.50 | 2.62 | 48.28 | 0.484500625 | 49,865 |
| UNITS | In | Ac | Ac | Ac | % | CF | CF |
| VALUE | Enhanced Phosphorus Removal (WQ _V = 1-yr Storm Runoff) | | | | | | |

Net Water Quality Treatment Volume = Adjusted WQ_V - Provided RR_V

| | | |
|--|---------------|----|
| Initial Water Quality Treatment Volume | 49,865 | CF |
| Adjusted Water Quality Treatment Volume | 49,865 | CF |
| Provided Runoff Reduction Volume | 34,343 | CF |
| Net Water Quality Treatment Volume | 15,522 | CF |

RUNOFF REDUCTION VOLUME WORKSHEET

JMC Project: **20101**

Design Point: **1C**

| | | |
|----------------------------------|----------------|--------------------|
| <i>The Summit Club at Armonk</i> | Drainage Area: | PDA-1C-2A/B |
|----------------------------------|----------------|--------------------|

| Total Water Quality Treatment Volume | | | |
|--------------------------------------|-----------------|---------------|-------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Initial Water Quality Volume | WQ _v | 49,865 | CF |
| Adjusted Water Quality Volume | WQ _v | 49,865 | CF |

| Minimum Runoff Reduction Volume | | | |
|--|-----------------------|--------------|-----------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Design Storm [90% Rainfall Event Number] or [1-yr Storm Depth] | P | 1.5 | In |
| Total Area of <i>new</i> Impervious Cover | A _{ic} | 2.62 | Ac |
| Hydrologic Soil Group (HSG) Specific Reduction Factor | S | 0.35 | |
| Runoff Coefficient [0.05 + 0.009 x %I] | R _v | 0.95 | CF |
| Impervious Cover targeted for Runoff Reduction [S x A _{ic}] | A _i | 0.92 | Ac |
| TOTAL VOLUME Required [RR_v = (P x R_v x A_i) / 12] | RR_v | 4,748 | CF |

| Runoff Reduction Techniques (Volume) | | | |
|--------------------------------------|-----------------------|---------------|-----------|
| GREEN INFRASTRUCTURE PRACTICE / SMP | SYMBOL | VALUE | UNITS |
| Permeable Asphalt | RR _v | 2,137 | CF |
| Infiltration Basin 1C-2B | RR _v | 32,206 | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| | RR _v | | CF |
| TOTAL | RR_v | 34,343 | CF |

| Runoff Reduction | |
|---|------------|
| Is Total RR _v > Adjusted WQ _v ? | NO |
| Is Total RR _v > Minimum RR _v ? | YES |

INFILTRATION WORKSHEET

JMC Project: **20101**

Design Point: **1C**

Drainage Area: **PDA-1C-2A**

Permeable Asphalt

Site Data for Drainage Area to be Treated by Practice

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--|-----------------|--------------|-------|
| Design Storm [90% Rainfall Event Number] | P | 1.5 | In |
| Impervious Area | I | 0.41 | Ac |
| Area | A | 0.41 | Ac |
| Percent Impervious | %I | 100.00 | % |
| Runoff Coefficient [0.05 + 0.009 x %I] | R _V | 0.95 | CF |
| TOTAL VOLUME Required [$WQ_V = (P \times R_V \times A) / 12$] | WQ _V | 2,137 | CF |

Minimum Porous Pavement Area

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--|-----------------|--------------|----------|
| Water Quality Volume | WQ _V | 2,137 | CF |
| Porosity | n | 0.40 | Ft / Day |
| Trench Depth | d _t | 1.00 | Ft |
| Surface Area Required [$A_R = WQ_V / (n \times d_t)$] | A _R | 5,342 | SF |

Proposed Porous Pavement

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|---|------------------|---------------|-------|
| Surface Area of Porous Pavement Provided [A _p] | A _p | 17,994 | SF |
| Actual Volume Provided | WQ _{VP} | 7,198 | CF |

Runoff Reduction

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--------------------------------|-----------------|--------------|-------|
| 100% Runoff Reduction capacity | RR _V | 2,137 | CF |

INFILTRATION WORKSHEET

JMC Project: **20101**
 Design Point: **1C**
 Drainage Area: **PDA-1C-2B**

Infiltration Basin 1C-2B

Site Data for Drainage Area to be Treated by Practice

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--|-----------------|---------------|-------|
| Design Storm [90% Rainfall Event Number] | P | 1.5 | In |
| Impervious Area | I | 5.82 | Ac |
| Area | A | 13.45 | Ac |
| Percent Impervious | %I | 43.30 | % |
| Runoff Coefficient [0.05 + 0.009 x %I] | R _V | 0.44 | CF |
| TOTAL VOLUME Required [WQ _V = (P x R _V x A) / 12] | WQ _V | 32,206 | CF |
| Design Storm [1-yr Storm Depth] | P | | In |
| TOTAL VOLUME Required (TMDL) [WQ _V = 1-yr Storm Runoff] | WQ _V | | CF |

Water Quality Volume Provided

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|----------------------------------|--------------------|---------------|-------|
| 1 Year Storm Entering System | Q ₁ IN | 53,690 | CF |
| 1 Year Storm Exiting System | Q ₁ OUT | 0 | CF |
| Runoff Volume Infiltrated | | 53,690 | CF |

Runoff Reduction

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--|-----------------|------------------|-------|
| 100% Runoff Reduction capacity | RR _V | 53,690 | CF |
| Total Area of Infiltration Basin Provided | A _p | 13,231.00 | SF |

Runoff Reduction

| DESCRIPTION | SYMBOL | VALUE | UNITS |
|--------------------------------|-----------------|---------------|-------|
| 100% Runoff Reduction capacity | RR _V | 32,206 | CF |

PROPRIETARY PRACTICE WORKSHEET

JMC Project: **20101**
 Design Point: **1C**
 Drainage Area: **PDA-1C-2B**

Water Quality Structure 4A

Rainfall Distribution Type: **III**

| | | A | B | C |
|---|-------|---------|---------|---------|
| Coefficients for the equation unit peak | C_0 | -1.774 | 0.3301 | 2.4577 |
| $[R = I_a / P]$ | C_1 | 1.8622 | -0.7397 | -0.4627 |
| $[C_i = A \times R^2 + B \times R + C]$ | C_2 | -0.0648 | 0.2276 | -0.1932 |

| Site Data for Drainage Area to be Treated by Practice | | | |
|--|--------|---------------|-------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Design Storm [90% Rainfall Event Number] | P | 1.5 | In |
| Impervious Area | I | 3.03 | Ac |
| Area | A | 6.29 | Ac |
| Percent Impervious | %I | 48.09 | % |
| Runoff Coefficient $[0.05 + 0.009 \times \%I]$ | R_v | 0.48 | CF |
| TOTAL VOLUME Required $[WQ_v = (P \times R_v \times A) / 12]$ | WQ_v | 16,540 | CF |
| Design Storm [1-yr Storm Depth] | P | | In |
| TOTAL VOLUME Required (TMDL) $[WQ_v = 1\text{-yr Storm Runoff}]$ | WQ_v | | CF |

| Water Quality Peak Flow Calculation | | | |
|---|--------|-------------|-------------------------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Water Quality Volume | WQ_v | 16,540 | CF |
| Design Storm [90% Rainfall Event Number] or [1-yr Storm Depth] | P | 1.5 | In |
| Time of Concentration | t_c | 0.1667 | Hr |
| Runoff Volume $[Q = WQ_v / (A \times 3630)]$ | Q | 0.72 | In |
| Curve Number $[CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25 \times QP)^{1/2})]$ | CN | 90.73 | |
| Curve Number | CN | 91 | |
| Initial Abstraction $[I_a = 200 / CN - 2]$ | I_a | 0.20 | In |
| Ratio $[R = I_a / P]$ | R | 0.14 | |
| $C_0 = A \times R^2 + B \times R + C$ | C_0 | 2.47 | |
| $C_1 = A \times R^2 + B \times R + C$ | C_1 | -0.53 | |
| $C_2 = A \times R^2 + B \times R + C$ | C_2 | -0.16 | |
| Unit Peak Discharge | q_u | 605.88 | cfs/mi ² /in |
| Peak Discharge $[Q_p = q_u \times A \times Q / 640]$ | Q_p | 4.31 | cfs |

| Proposed Device | | | |
|---|--------|---------------|-------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Water Quality Peak Flow Provided | Q_p | 5.6 | cfs |
| Water Quality Volume Provided $[WQ_v = 640 \times 3600 \times Q_p / q_u]$ | WQ_v | 21,295 | CF |
| Model Designation | | CS-6 | |
| Quantity | | 1 | |

PROPRIETARY PRACTICE WORKSHEET

JMC Project: **20101**
 Design Point: **1C**
 Drainage Area: **PDA-1C-2B**

Water Quality Structure 4B

Rainfall Distribution Type: **III**

| | | A | B | C |
|---|-------|---------|---------|---------|
| Coefficients for the equation unit peak | C_0 | -1.774 | 0.3301 | 2.4577 |
| $[R = I_a / P]$ | C_1 | 1.8622 | -0.7397 | -0.4627 |
| $[C_i = A \times R^2 + B \times R + C]$ | C_2 | -0.0648 | 0.2276 | -0.1932 |

| Site Data for Drainage Area to be Treated by Practice | | | |
|--|--------|---------------|-------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Design Storm [90% Rainfall Event Number] | P | 1.5 | In |
| Impervious Area | I | 2.80 | Ac |
| Area | A | 7.16 | Ac |
| Percent Impervious | %I | 39.09 | % |
| Runoff Coefficient $[0.05 + 0.009 \times \%I]$ | R_v | 0.40 | CF |
| TOTAL VOLUME Required $[WQ_v = (P \times R_v \times A) / 12]$ | WQ_v | 15,665 | CF |
| Design Storm [1-yr Storm Depth] | P | | In |
| TOTAL VOLUME Required (TMDL) $[WQ_v = 1\text{-yr Storm Runoff}]$ | WQ_v | | CF |

| Water Quality Peak Flow Calculation | | | |
|---|--------|-------------|-------------------------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Water Quality Volume | WQ_v | 15,665 | CF |
| Design Storm [90% Rainfall Event Number] or [1-yr Storm Depth] | P | 1.5 | In |
| Time of Concentration | t_c | 0.1667 | Hr |
| Runoff Volume $[Q = WQ_v / (A \times 3630)]$ | Q | 0.60 | In |
| Curve Number $[CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25 \times QP)^{1/2})]$ | CN | 88.44 | |
| Curve Number | CN | 88 | |
| Initial Abstraction $[I_a = 200 / CN - 2]$ | I_a | 0.26 | In |
| Ratio $[R = I_a / P]$ | R | 0.17 | |
| $C_0 = A \times R^2 + B \times R + C$ | C_0 | 2.46 | |
| $C_1 = A \times R^2 + B \times R + C$ | C_1 | -0.54 | |
| $C_2 = A \times R^2 + B \times R + C$ | C_2 | -0.16 | |
| Unit Peak Discharge | q_u | 607.50 | cfs/mi ² /in |
| Peak Discharge $[Q_p = q_u \times A \times Q / 640]$ | Q_p | 4.10 | cfs |

| Proposed Device | | | |
|---|--------|---------------|-------|
| DESCRIPTION | SYMBOL | VALUE | UNITS |
| Water Quality Peak Flow Provided | Q_p | 5.6 | cfs |
| Water Quality Volume Provided $[WQ_v = 640 \times 3600 \times Q_p / q_u]$ | WQ_v | 21,239 | CF |
| Model Designation | | CS-6 | |
| Quantity | | 1 | |

APPENDIX C

SOIL TESTING DATA



CARLIN • SIMPSON & ASSOCIATES

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13 February 2013
Revised 16 October 2013

Brynwood Partners, LLC
c/o Corigin Holdings
505 Fifth Avenue, 22nd Floor
New York, NY 10017

Attn: Ms. Megan Maciejowski

Re: Report on Subsurface Soil and Foundation Investigation
Brynwood Club Development
Bedford Road
Town of North Castle, NY (12-175)

Dear Ms. Maciejowski:

In accordance with our proposals dated 20 November 2012 and 9 September 2013 and your subsequent authorization, we have completed a Subsurface Soil and Foundation Investigation for the referenced site. The purpose of this study is to preliminarily determine the nature and engineering properties of the subsurface soil and bedrock as well as the groundwater conditions for the planned development, to recommend a practical foundation scheme, to determine the allowable bearing capacity of the site soils, and to determine the subsurface soil and groundwater conditions and soil permeability in the new stormwater management areas.

We understand that the planned construction will consist of 21 new structures, roadways, parking areas, retaining walls, tennis courts, underground utilities, and a stormwater management system. To guide us in our study, you have provided us with a site plan that indicates the existing site conditions and the location of the planned new development.

Our scope of work for this project included the following:

1. Reviewed the proposed layout, the existing site conditions, the expected soil conditions, and planned this study.
2. Retained General Borings, Inc. to advance 11 test borings at the subject site.

3. Retained Traficante Contracting Inc. to excavate 18 test pits at the subject site.
4. Inspected ten (10) supplemental test pits that were excavated at the site by Brynwood Club personnel.
5. Laid out the boring and test pit locations in the field, provided full time inspection of the explorations, obtained soil samples, and prepared detailed logs and a Boring and Test Pit Location Plan.
6. Performed three (3) field percolation tests and one (1) borehole permeability test.
7. Performed soil identification tests on selected soil samples in our laboratory.
8. Analyzed the field and laboratory test data and prepared this report containing the results of this study.

SITE DESCRIPTION

The project site is located on the Brynwood Club property on Bedford Road in North Castle, Westchester County, New York. The subject property is currently occupied by a golf club with a clubhouse building, tennis courts, and a few smaller out-structures. The proposed development area is also occupied by an asphalt paved parking lot and driveways as well as grass lawn areas and wooded areas. There are numerous existing underground utilities located throughout the property.

Within the proposed development area, the existing site grades vary from approximately elevation +610.0 at the southwest corner of the subject site and the westernmost portion of the site, to elevation +640.0 on the east side of the existing clubhouse building, to elevation +674.5 in the existing tennis court area in the northeastern portion of the property.

SUBSURFACE CONDITIONS

To determine the subsurface soil, bedrock, and groundwater conditions, we advanced 11 test borings and 28 test pits at the site. The borings and test pits were performed at the locations shown on the enclosed Boring and Test Pit Location Plan. Detailed logs have been prepared and are included in this report. Our field engineer visually identified all soil samples and selected soil samples were tested in our laboratory. The results of these tests are also included in this report.

Soil

The soil descriptions shown on the boring and test pit logs are based on the Burmister Classification System. In this system, the soil is divided into three components: Sand (S), Silt (S) and Gravel (G). The major component is indicated in all capital letters, the

lesser in lower case letters. The following modifiers indicate the quantity of each lesser component:

| <u>Modifier</u> | <u>Quantity</u> |
|-----------------|-----------------|
| trace (t) | 0 -10% |
| little (l) | 10% - 20% |
| some (s) | 20% - 35% |
| and (a) | 35% - 50% |

The subsurface soil conditions observed in the borings and test pits can be summarized as follows:

Stratum 1
Topsoil The surface layer at most of the boring and test pit locations consists of brown topsoil that typically ranges from about 0'3" to 1'6" in thickness.

Stratum 2
Existing Fill Beneath the topsoil and at the surface in three (3) of the borings (B-6, B-8, and B-9) and ten (10) of the test pits (TP-2, TP-9, TP-10, TP-12, TP-14, TP-16, TP-19, TP-21, TP-26, and TP-28) is existing fill that consists of loose to medium dense brown coarse to fine SAND, little (to and) Silt, trace (to some) coarse to fine Gravel. Cobbles, boulders, topsoil, roots, and debris were also present within the fill at some of the test locations. The existing fill was encountered to depths ranging from 1'0" to more than 9'0" beneath the existing ground surface. Test pits TP-9 and TP-28 were terminated in the fill at final depths of 6'9" and 9'0" beneath the ground surface, respectively.

Stratum 3
Sandy Silt or
Silty Sand Underlying the topsoil and existing fill is virgin soil that is comprised of medium dense to dense brown, light brown, or gray brown SILT some (to and), coarse to fine Sand, trace (to little) coarse to fine Gravel or coarse to fine SAND, little (to and) Silt, trace (to and) coarse to fine Gravel, with occasional cobbles and boulders. The Sandy Silt or Silty Sand stratum continued to depths ranging from 2'0" to 12'0" below the existing ground surface. Boring B-8 and test pits TP-8, TP-10, TP-12, TP-19, TP-20, TP-22, and TP-26 were terminated in this stratum at final depths ranging from 5'0" to 12'0" beneath the ground surface.

Stratum 4
Sand or Sandy
Gravel Below the Sandy Silt or Silty Sand at several test locations is completely weathered Gneiss bedrock that generally consists of dense to very dense brown or gray brown coarse to fine SAND, little (to some) Silt, trace (to some) coarse to fine Gravel or coarse to fine GRAVEL and, coarse to fine Sand, trace Silt. Where encountered in the borings and test pits, the completely weathered bedrock was present at depths ranging from 2'0" to 7'0" beneath the ground surface and continued to depths ranging from 4'7" to 15'2" below the existing ground surface.

Stratum 5
Gneiss
Bedrock

Gneiss bedrock was encountered at 27 of the 39 test locations. Where encountered in the borings and test pits, gneiss bedrock was observed at depths ranging from 1'8" to 15'2" beneath the existing ground surface. In general, the quality of the bedrock will improve with depth.

At boring B-10, the bedrock was cored between the depths of 2'0" and 7'0". The core recovery was 86% and the Rock Quality Designation (RQD) of the recovered core was 53%. This indicates that the quality of the upper five (5) feet of the Gneiss bedrock is fair. The Gneiss bedrock is moderately weathered and in a blocky and seamy condition.

Groundwater

Observations for groundwater were made during sampling and upon completion of the drilling operations at each boring location. In auger drilling operations, water is not introduced into the boreholes, and the groundwater position can often be determined by observing water flowing into or out of the boreholes. Furthermore, visual observation of the soil samples retrieved during the auger drilling and in the test pits can often be used in evaluating the groundwater conditions.

Groundwater was encountered in test pit TP-8 at a depth of 4'1" (+609.9), in test pit TP-13 at a depth of 4'10" (+631.2), in boring B-8 at a depth of 3'3" (+608.3), in test pit TP-22 at a depth of 4'6" (+470.5), and in test pit TP-28 at a depth of 8'0" (+491.0) beneath the ground surface. Groundwater was not encountered in any of the other borings or test pits that were performed at the subject site during this investigation.

Variations in the location of the long-term water table may occur as a result of changes in precipitation, evaporation, surface water runoff, and other factors not immediately apparent at the time of this exploration. Based on the site conditions, trapped groundwater may be encountered in the silty site soils and/or along the soil/rock interface during wet periods. Proper groundwater control measures will be required in the event that trapped water is encountered in the site excavations.

Bedrock

Bedrock was encountered in 27 of the 39 explorations that were performed at the site during this investigation. Completely weathered bedrock was encountered at ten (10) test locations at depths ranging from 2'0" to 7'0" below the existing ground surface. Harder bedrock was encountered in the remaining locations and below the completely weathered rock at depths ranging from 1'8" to 15'2" beneath the ground surface. These depths correspond to bedrock elevations ranging between approximately elevation +471.0 and elevation +669.8.

Based on the boring and test pit data and the site plans provided to this office, bedrock was encountered above the planned finished floor elevation in portions of the site. The observed depth to bedrock at each boring and test pit location is summarized in Table 1 in the following section of this report.

The bedrock encountered at the site consists of weathered Gneiss. Based on our experience, the in-situ bedrock will range from highly weathered, fractured rock to massive, intact rock. Penetration into the bedrock with excavation equipment will depend of the degree of weathering and fracturing in the rock. We anticipate that the "rippability" of the bedrock will be variable and very limited. Based on our observations, harder rock will be encountered and blasting and/or the use of hydraulic hammers will be required to excavate the harder, intact bedrock. Rock removal is discussed further in a separate section of this report.

EVALUATION

At the time of this report, the proposed layout, the proposed finished floor elevations, and the site grading were preliminary. Therefore, the following evaluation is preliminary in nature and has been generalized for the expected development. The recommendations below are intended for planning purposes only and are not intended for final design and construction. Additional subsurface investigation will be required for the proposed buildings and retaining walls. Preliminarily, we estimate that an additional 12 to 15 explorations will be required for this project. Once the site plans have been further developed, a copy shall be forwarded to our office so that we can review it along with the recommendations in this report. At that time, we will provide specific recommendations for additional subsurface investigation. After the supplemental investigation has been completed, additional geotechnical recommendations will be provided for the project site. As a result, the recommendations within this report are subject to change.

Based on the preliminary site plans, we understand that the planned construction will consist of 21 new structures that will include seven (7) golf residences, seven (7) club villas, five (5) golf cottages, one (1) fairway residences building, and one (1) clubhouse building. The proposed construction will also include new asphalt paved roadways and parking areas, retaining walls, tennis courts, underground utilities, and a stormwater management system.

The grading plan provided to this office indicates that the proposed finished floor elevations vary across the site. In addition, the fairway residences, golf cottages, and golf residences will have basements. Based on the existing and proposed grades, cuts ranging up to approximately 14'0" and fills ranging up to approximately 10'0" are expected to achieve the proposed floor slab subgrade elevations. In the proposed pavement areas, cuts ranging up to approximately 6'0" and fills ranging up to approximately 8'0" are expected to achieve the proposed pavement subgrade elevations.

The boring and test pit data indicates that there is existing fill (Stratum 2) present in portions of the site to depths ranging from 1'0" to more than 9'0" below the existing ground surface. The existing fill generally consists of loose to medium dense Sand with varying amounts of Silt and Gravel and occasional cobbles, boulders, topsoil, roots, and debris. Underlying the existing fill is medium dense to dense Sandy Silt or Silty Sand (Stratum 3). The Sandy Silt or Silty Sand is underlain by dense to very dense completely weathered Gneiss bedrock (Stratum 4) in areas followed by more competent Gneiss bedrock (Stratum 5), which was encountered at depths ranging from 2'0" to 15'2" beneath the existing ground surface. The existing fill and bedrock observations are summarized in Table 1 below.

Table 1 - Summary of Boring and Test Pit Data

| Boring or Test Pit No. | Approximate Ground Surface Elevation | Depth to Bottom of Existing Fill (Elevation) | Depth to Weathered Bedrock (Elevation) | Depth to Bedrock or Auger Refusal (Elevation) |
|-------------------------------|---|---|---|--|
| B-1 | +661.0 | NE | 5'0" (+656.0) | 8'0" (+653.0) |
| B-2 | +628.0 | NE | NE | 7'0" (+621.0) |
| B-3 | +620.0 | NE | 2'0" (+618.0) | 4'9" (+615.3) |
| B-4 | +628.0 | NE | 2'0" (+626.0) | 10'6" (+617.5) |
| B-5 | +623.0 | NE | 2'0" (+621.0) | 8'6" (+614.5) |
| B-6 | +617.0 | 1'0" (+616.0) | NE | 5'6" (+611.5) |
| B-7 | +628.0 | NE | 5'0" (+623.0) | 15'2" (+612.8) |
| B-8 | +609.0 | 5'6" (+603.5) | NE | NE to 12'0" |
| B-9 | +674.0 | 7'0" (+667.0) | 7'0" (+667.0) | 7'6" (+666.5) |
| B-10 | +638.8 | NE | NE | 2'0" (+636.8) |
| B-11 | +640.0 | NE | 4'0" (+636.0) | 5'6" (+634.5) |
| TP-1 | +662.0 | NE | NE | 2'0" (+660.0) |
| TP-2 | +672.0 | 1'10" (+670.2) | NE | 4'4" (+667.7) |
| TP-3 | +672.0 | NE | NE | 2'2" (+669.8) |
| TP-4 | +672.0 | NE | NE | 3'6" (+668.5) |
| TP-5 | +670.0 | NE | 3'8" (+666.3) | 4'9" (+665.3) |
| TP-6 | +672.0 | NE | 2'10" (+669.2) | 4'7" (+667.4) |
| TP-7 | +620.0 | NE | NE | 2'8" (+617.3) |
| TP-8 | +614.0 | NE | NE | NE to 5'0" |
| TP-9 | +628.0 | >6'9" (<+621.3) | NE | NE to 6'9" |
| TP-10 | +625.0 | 3'0" (+622.0) | NE | NE to 8'0" |
| TP-11 | +642.0 | NE | 3'9" (+638.3) | 6'0" (+636.0) |
| TP-12 | +635.0 | 5'0" (+630.0) | NE | NE to 6'6" |
| TP-13 | +636.0 | NE | NE | 7'5" (+628.6) |
| TP-14 | +625.0 | 5'0" (+620.0) | NE | 5'0" (+620.0) |
| TP-15 | +668.0 | NE | NE | 1'8" (+666.3) |
| TP-16 | +651.0 | 1'10" (+649.2) | NE | 4'10" (+646.2) |
| TP-17 | +655.0 | NE | NE | NE to 1'0" |
| TP-18 | +670.0 | NE | NE | NE to 7'0" |
| TP-19 | +427.0 | 2'5" (+424.6) | NE | NE to 7'0" |
| TP-20 | +415.0 | NE | NE | NE to 8'0" |
| TP-21 | +478.0 | 1'4" (+476.7) | NE | 7'0" (+471.0) |
| TP-22 | +475.0 | NE | NE | NE to 7'6" |
| TP-23 | +496.0 | NE | NE | 3'10" (+492.2) |
| TP-24 | +564.0 | NE | NE | 6'8" (+557.3) |
| TP-25 | +633.0 | NE | NE | 3'4" (+629.7) |
| TP-26 | +669.0 | 5'6" (+663.5) | NE | NE to 8'0" |

| Boring or Test Pit No. | Approximate Ground Surface Elevation | Depth to Bottom of Existing Fill (Elevation) | Depth to Weathered Bedrock (Elevation) | Depth to Bedrock or Auger Refusal (Elevation) |
|-------------------------------|---|---|---|--|
| TP-27 | +561.0 | NE | NE | 4'4" (+556.7) |
| TP-28 | +499.0 | >9'0" (<+490.0) | NE | NE to 9'0" |

Notes: NE – Not Encountered

B-8: Groundwater at +608.3

TP-8: Groundwater at +609.9

TP-9: Terminated in the Existing Fill

TP-13: Groundwater at +631.2

TP-22: Groundwater at +470.5

TP-28: Groundwater at +491.0

TP-28: Terminated in the Existing Fill

Removal of Existing Structures from New Building and Pavement Areas

Building Areas

The site plan indicates that existing structures are present in some of the proposed building areas. The existing structures will be removed as part of the proposed development. All debris resulting from the demolition of these items must be completely removed from the new building areas, extending at least ten (10) feet beyond the new building limits, where practical. This shall include the complete removal of all foundations, walls, slabs, utilities, sidewalks, pavement, and miscellaneous debris. Where the removal of existing items or associated materials extends below the planned building, the resulting excavations shall be backfilled with new compacted fill as described below.

Existing utilities, where they are encountered within the planned building areas, should be either abandoned or rerouted around the new structures. Once the utility has been rerouted or abandoned, the section of pipe and any associated structure within the building areas should be completely removed. The removal of the pipe and structure must also include any loose fill around the pipe or structure. After the pipe, associated structure, and associated loose backfill have been removed, the resulting excavation shall be backfilled with new controlled fill as described below.

New compacted fill shall consist of either suitable on-site soil or imported sand and gravel. Imported sand and gravel fill shall contain less than 20% by weight passing a No. 200 sieve. The fill shall be placed in layers not exceeding one (1) foot in loose thickness. In the proposed building area, new fill shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). Each layer shall be compacted, tested, and approved prior to placing subsequent layers.

Pavement Areas

In the proposed pavement areas, any existing structures and debris resulting from the demolition of the structures must be completely removed from the new pavement areas, extending at least five (5) feet beyond the new paving limits, where practical. The

excavations resulting from the removal of existing items shall be backfilled using controlled compacted fill. New fill shall consist of either suitable on-site soil or imported sand and gravel placed in one (1) foot loose layers and compacted to at least 92% of its Maximum Modified Dry Density (ASTM D1557).

Implications of Existing Fill

The boring and test pit data indicates that existing fill is present in portions of the site. Where encountered in the borings and test pits, the fill extended to depths ranging from 1'0" to more than 9'0" beneath the existing ground surface. These depths correspond to elevations ranging from approximately +424.6 to elevation +670.2. The depth of the existing fill is expected to be variable and may be deeper in unexplored areas of the site and around the existing site buildings.

The existing fill is not an acceptable bearing material for the new building foundations or floor slabs. The consistency and density of the fill material are not predictable. Certain areas may contain clean dense soils while other areas may contain loose material, topsoil, and/or debris. The existing fill creates the possibility of intolerable differential settlements under loading.

To eliminate the potential for damaging differential settlements, we recommend that the existing fill be completely removed from the new building areas. Based on the existing grades and the proposed finished floor elevations, we expect that some of the existing fill will be removed during the planned building excavations. However, existing fill is expected to be encountered below the planned subgrade elevation in portions of the site. Undercutting of the subgrade will be required in these areas to remove the existing fill or otherwise unsuitable materials from the building areas. The over-excavated areas shall then be replaced with new structural fill, as necessary, to achieve the planned subgrade elevations.

To further evaluate the existing fill conditions in and around the planned building areas, we recommend that a series of supplemental test pits be performed at the time of construction. The test pits should be conducted under the full time observation of a Carlin-Simpson & Associates representative. These test pits will allow us to confirm the consistency, thickness, and horizontal limits of the existing fill material.

Provided that the existing fill and any other unsuitable materials encountered during construction are removed, it is our opinion that the new structural fill and virgin soils can adequately support the new building foundations and floor slabs.

Rock Removal - Blasting Issues

As discussed above, bedrock was encountered at 27 of the 39 test locations during this study. The bedrock was encountered at depths ranging from 1'8" to 15'2" beneath the ground surface. These depths correspond to bedrock elevations ranging between approximately elevation +611.5 and elevation +669.8. Based on the site plans provided to this office, bedrock was encountered above the planned finished floor elevation in portions of the site. Bedrock may also be encountered at higher elevations in the unexplored areas of the site.

The bedrock encountered in the borings and test pits consists of weathered Gneiss. Based on our experience, the in-situ bedrock will range from highly weathered, fractured rock to massive, intact rock. To excavate the rock, the upper 1'0" to 5'0" of rock may be "rippable" by using large construction equipment. The use of hydraulic hammers and/or blasting will be required in order to achieve deeper excavations. Zones of weathered rock may exist deeper than 5'0" but conditions are expected to be highly variable. Hard rock will be encountered during construction.

In order to develop the site, rock removal will be required in areas to achieve the proposed grades. Rock removal may also be required for the new pavement and utilities in portions of the site. Rock blasting will likely be required to achieve the proposed grades in areas. Nearby buildings and existing underground utilities could be affected by the blasting.

The Blasting Contractor should avoid over-blasting the rock. Over-blasting will disturb the deeper intact rock that will be used as bearing material for the proposed foundations and floor slab.

The blasting operation will be monitored by a seismologist using a seismograph. The Peak Particle Velocity emanating from any blast will be restricted to 2.0 in/sec. Each blast will be monitored to insure that this criteria is not exceeded.

The U.S. Bureau of Mines [Nicholas et al (1971)] has established that a threshold of 4.0 in/sec will likely crack plaster and thus they recommend that the safe vibrational criterion be 2.0 in/sec. This criterion has been used successfully in the industry. Each blast will be monitored independently to insure that this criterion is not exceeded. The monitoring results shall be provided to the Blasting Contractor as soon as possible so that the blasting program can be modified if necessary.

We recommend that a minimum of four (4) monitoring points be established, to the north, east, south and west of the planned blast area. The seismograph sensors should be placed near the closest structure and at any structures identified during the pre-blast survey that are considered to be susceptible to vibration damage.

Prior to the start of any construction, a Blasting Management Plan shall be prepared by the Blasting Contractor for this project. This plan shall be in accordance with State regulations and the Explosive Materials Code, NFPA No. 495, National Fire Prevention Association. Additionally, all blasting should adhere to the provisions of 29 CFR Ch. XVII Section 1910.109 for explosives and blasting agents and to all local requirements.

Prior to any blasting work being done, a licensed professional engineer shall be retained to perform a detailed pre-blast survey of existing structures located within 500 feet of the planned blast area. The pre-blast survey shall be conducted in accordance with the requirements of local authorities. A copy of all reports prepared by the licensed engineer shall be submitted to the Town Engineer and the Owner's representative in a timely manner.

Prior to the beginning of blasting, a notice will be sent to all residential and commercial property owners within a 500 foot radius of the blast area. This notification will

be given at least 48 hours before blasting takes place. A contact person will be established and named in this notice to respond to all concerns raised by nearby residents during the blasting phase of the project. The contact person will respond to any inquiries within 24 hours.

Preparation of New Building Areas and Removal of Existing Fill

In order to prepare the building areas for construction, all surface materials such as topsoil, asphalt, and surface vegetation shall be removed from the planned building areas, extending at least ten (10) feet beyond the new construction limits, where feasible.

The boring data indicates that existing fill is present within portions the proposed building areas. Fill material may also be present in other unexplored portions of the site. Where encountered in the test borings, the existing fill extended to depths ranging from about 1'0" to 7'0" below the existing ground surface. As shown in Table 1 above, the approximate bottom of the fill material ranges from elevation +603.5 to elevation +670.2. The existing fill is expected to vary in thickness across the site and may extend deeper in the unexplored areas and around the existing site structures.

After the surface materials are removed, the existing fill shall be excavated from the new building areas. The removal of the existing fill from the new building areas shall extend through the existing fill, down to the virgin soil or weathered bedrock. At the bottom of the excavation, the removal of the unsuitable material shall extend horizontally beyond the building lines a minimum distance of three (3) feet plus a distance equal to the depth of the excavation below the planned finished floor elevation. For example, if the removal of the existing fill extends vertically five (5) feet below the planned finished floor elevation, the excavation must extend horizontally a minimum of eight (8) feet (3 feet plus 5 feet) beyond the new building line at that location.

The removal of the existing fill from the planned building areas shall be performed under the full time observation of Carlin-Simpson & Associates. The on-site representative from Carlin-Simpson & Associates shall direct the Contractor during this operation to ensure that all of the unsuitable material has been removed from the proposed building areas.

During the removal of the unsuitable material from the building areas, the Contractor should segregate the potentially re-usable existing fill material from the non-reusable fill (i.e. debris and topsoil). The on-site representative from Carlin-Simpson & Associate shall evaluate the suitability of the excavated materials for use as structural fill during the excavation and prior to its re-use. Potentially usable fill should be stockpiled and covered with tarps or plastic sheeting for protection from excess moisture. Any fill material that is wet must be dried prior to its re-use.

After the surface materials and existing fill have been removed and prior to the placement of new structural fill, the exposed subgrade must be graded level and proofrolled by several passes of a vibratory drum roller. The proofrolling operation is necessary to densify the underlying soils. Carlin-Simpson & Associates shall be retained to observe the proofrolling of the subgrade. If any soft or otherwise unsuitable soils are noted, the

unsuitable material shall be removed and replaced with new structural fill. Carlin-Simpson & Associates shall be responsible for determining what material, if any, is to be removed and will direct the contractor during this operation.

New structural fill required to achieve final grades shall consist of either suitable on-site soil or imported sand and gravel. Imported fill shall contain less than 20% by weight passing a No. 200 sieve. The structural fill shall be placed in layers not exceeding one (1) foot in loose thickness and each layer shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). Each layer must be compacted, tested, and approved prior to placing subsequent layers. The suitability of the excavated soil for reuse as structural fill is discussed in a following section of this report.

After the installation of structural fill has been completed to the required subgrade elevations, the virgin soil and new structural fill may be used to support the proposed building foundations and floor slabs.

New Building Foundations

According to the boring data, the foundation bearing materials will consist of medium dense to dense virgin soil, weathered bedrock, and new structural fill. Foundations for the proposed structures may be designed as a shallow spread footing bearing on the virgin soil, weathered bedrock, or new structural fill utilizing a net allowable bearing pressure of 4,000 psf (2.0 TSF).

Exterior footings shall bear at a depth of at least 42 inches below finished outside grade for protection from frost. Interior column footings may bear on the virgin soil, weathered bedrock, or new structural fill just below the floor slab provided the building is heated during winter. Column footings shall have a minimum dimension of 30 inches. The wall footings shall have a minimum width of 18 inches.

Prior to the placement of formwork, reinforcement steel, and concrete, the bearing subgrade soil shall be cleaned of all loose soil and compacted with several passes of a small vibratory drum trench compactor (i.e. Wacker Model RT560), a heavy vibratory plate tamper (i.e. Wacker BPU 3545A or equivalent), or “jumping jack” style tamper (i.e. Wacker Model BS 600). This must be performed under the inspection of a representative from Carlin-Simpson & Associates. If instability is observed during the compaction of the bearing subgrade, the soft soil shall be removed and replaced with new compacted fill.

Where rock is encountered in the foundation excavations, “Special Construction Procedures” must be employed. When continuous wall footings or closely spaced column footings (20 feet or less) bear on dissimilar material (i.e. rock and soil) the potential for differential movement exists. A footing bearing in rock will not move, whereas a footing bearing on soil will settle slightly due to the compressive nature of all soils when subjected to new loads. The area between movement and non-movement will develop a (shear) stress point. Cracks in foundations and walls will be the result from such movement. Therefore, continuous wall footings must bear either entirely on rock or entirely on soil for any individual building. Alternatively, for larger structures, transition zones can be constructed to create a gradual transition from a soil to a rock bearing subgrade.

Adjacent column footings greater than 20 feet apart may bear on dissimilar material (i.e. soil and rock). Any individual column footing must bear entirely on the same type bearing material (i.e. all soil or all rock).

Where rock and soil both exist at the bearing elevation within a foundation excavation, the footings must either be lowered to bear entirely on rock, or a minimum of 18 inches of rock must be removed from below planned footing bottom. The over-excavated 18 inches must then be filled with a granular material having a maximum particle size of ½-inch and containing at least 15% but not more than 30% material by weight passing a No. 200 sieve. The fill shall be placed in six (6) inch layers and each layer shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). This procedure will create a “cushion” atop the rock and reduce the potential for differential movement. For soft, rippable rock, this procedure will not be required.

If during the excavation for continuous foundations, the transition from soil to rock is gradual (i.e. from medium dense soil to dense weathered rock to very dense rock) over a distance of 20 feet or more, the “Special Construction Procedures” may not be required. This would have to be evaluated in the field on a case-by-case basis by the representative from Carlin-Simpson & Associates at the time of construction.

Where the transition from rock to soil is abrupt within the excavation for continuous wall foundations, transition zones can be constructed by over-excavating the rock in steps and increasing the “soil cushion” thickness over a distance of 24 feet or more. To construct the transition zone, the bedrock is over-excavated in a series of steps, each step being six (6) inches in depth and at least eight (8) feet in length. The first step is six (6) inches deep, the second step is 12 inches deep, and the final step is 18 inches deep. The over-excavation is then backfilled with the soil cushion material described above.

Floor Slab

After the footings and foundation walls are installed, fill will be required to backfill the excavations and to raise grades in the building areas to the slab subgrade elevations. New fill for the floor slab shall consist of either suitable on-site soil or imported sand and gravel containing less than 20% material by weight passing a No. 200 sieve. The fill shall be placed in layers not exceeding one (1) foot in loose thickness and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D1557). Fill layers shall be compacted, tested, and approved before placing subsequent layers.

The floor may be designed as a slab on grade, bearing on virgin soil, weathered bedrock, bedrock, or new structural fill. We recommend a Modulus of Subgrade Reaction (k) of 200 pounds per cubic inch (pci) be used for design. A six (6) inch layer of ¾-inch crushed stone is recommended beneath the concrete slab for additional support and drainage. In the event that the floor slab is constructed directly on Gneiss bedrock, a minimum of 12 inches of crushed stone or DGA should be provided beneath the floor slab for drainage and to act as a cushion on the rock. Sump pits and pumps are recommended where basements are planned.

Settlement

Settlement of individual footings, designed in accordance with recommendations presented in this report, is expected to be within tolerable limits for the proposed structure. For footings placed on natural soils or new compacted fill approved by Carlin-Simpson & Associates and constructed in accordance with the requirements outlined in this report, maximum total settlement is expected to be on the order of 1/2-inch or less. Maximum differential settlement between adjacent columns or load bearing walls is expected to be half the total settlement.

The above settlement values are based on our engineering experience with similar soil conditions and the anticipated structural loading, and are to guide the Structural Engineer with his design. To minimize difficulties during the foundation installation phase, it is critical that Carlin-Simpson & Associates be retained to observe the foundation bearing surfaces and to confirm the recommended bearing pressures and that the existing fill and unsuitable materials have been removed from beneath the new foundations.

Foundation Walls

In the event that foundation walls are required, the soil adjacent to the building walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and Coefficient of Earth Pressure at Rest (k_o), which is applicable to non-yielding building walls. We estimate that the backfill material will have an in-place (moist) density of about 130 pcf and a k_o of 0.5. Based on these properties, the soil will produce an Equivalent Fluid Pressure of 65 pcf against the building walls.

For sliding, the coefficient of friction between concrete and the virgin site soils or new structural fill is 0.45. For clean sound rock, a friction coefficient of 0.55 can be used. Where passive lateral earth pressure is to be included in the design of the wall, a design value of 195 psf/ft may be used. This is based on a Coefficient of Passive Earth Pressure (k_p) of 3.0, an in-place soil backfill density of 130 pcf, and a factor of safety of 2.0.

Where foundation walls are required, we recommend that a footing drain be placed around the exterior of the new structure to prevent water from accumulating against the foundation wall. This drain may consist of a minimum four (4) inch diameter, rigid wall perforated PVC pipe surrounded by at least 12 inches of 3/4-inch clean crushed stone. The stone shall be wrapped in a geotextile fabric, Mirafi 140N or equivalent. The foundation drainpipe should be extended to daylight or to the stormwater collection system. The outside face of the foundation wall, where it extends below grade, must be damp proofed or waterproofed.

The foundation walls should be backfilled with suitable structural fill placed in layers up to one (1) foot in loose thickness. The new fill should be compacted with a vibratory drum trench compactor (i.e. Wacker Model RT560), a heavy vibratory plate tamper (i.e. Wacker BPU 3545A or equivalent) or "jumping jack" style tamper (i.e. Wacker Model BS 600) to at least 92% of its Maximum Modified Dry Density (ASTM D1557). Heavy equipment should not be operated near the wall as damage to the wall could occur.

Outside the structure, the backfill placed adjacent to the foundation walls and above the footing drain shall consist of either clean crushed stone or an imported sand and gravel mixture containing less than 10% by weight passing a No. 200 sieve and placed in layers not exceeding one (1) foot in thickness. This clean sand and gravel or crushed stone backfill shall extend a minimum of one (1) foot horizontally from the back face of the foundation walls, and shall extend vertically up the wall face to two (2) feet below the finished ground surface elevation.

Beyond this point, the foundation walls should be backfilled with suitable soil placed in layers up to one (1) foot in thickness. The new fill should be compacted with a vibratory drum trench compactor (i.e. Wacker Model RT560), a heavy vibratory plate tamper (i.e. Wacker BPU 3545A or equivalent), or “jumping jack” style tamper (i.e. Wacker Model BS 600) to at least 92% of its Maximum Modified Dry Density (ASTM D1557). Heavy equipment should not be operated near the walls as damage to the walls could occur. Material excavated from the cut areas on site will be suitable for reuse as compacted fill, provided that it remains relatively dry enough to be adequately compacted to the required density and does not contain any debris or organic material (i.e. topsoil and roots).

Seismic Design Considerations

From site-specific test boring data, the Site Class was determined from Table 1615.1.1 of the New York State Building Code. The site-specific data used to determine the Site Class typically includes soil test borings to determine Standard Penetration resistances (N-values). Based on the average N-values in the upper 100 feet of soil profile, the site can be classified as Site Class C – Very Dense Soil and Soft Rock Profile.

New structures should be designed to resist stress produced by lateral forces computed in accordance with Section 1615 of the New York State Building Code. The values in Table 2 shall be used for this project. Based on the information obtained from the borings, it is our opinion that the potential for liquefaction of the native soils at the site due to earthquake activity is relatively low.

Table 2 – Seismic Design Parameter Values

| | |
|--|-----------------|
| Mapped Spectral Response Acceleration for Short Periods, [Fig 1615 (1)] | $S_S=0.347g$ |
| Mapped Spectral Response Acceleration at 1-Second Period, [Fig 1615 (2)] | $S_{S1}=0.070g$ |
| Site Coefficient [Table 1615.1.2 (1)] | $F_a=1.20$ |
| Site Coefficient [Table 1615.1.2 (2)] | $F_v=1.70$ |
| Max Considered Earthquake Spectral Response for Short Periods [Eq 16-16] | $S_{MS}=0.416g$ |
| Max Considered Earthquake Spectral Respond at 1-Second Period [Eq 16-17] | $S_{M1}=0.119g$ |
| Design Spectral Response Acceleration for Short Periods [Eq 16-18] | $S_{DS}=0.278g$ |
| Design Spectral Response Acceleration for 1-Second Period [Eq 16-19] | $S_{D1}=0.079g$ |

Site Retaining Walls

In order to develop the site, retaining walls will be required in areas. The site retaining walls may be designed as either cast-in-place steel reinforced concrete walls or geogrid reinforced modular block (MSE) walls. The preliminary site plans show five (5)

retaining walls. The maximum exposed height of these walls ranges from approximately seven (7) feet to 12 feet but the top and bottom wall elevations were not finalized at the time of this report.

The following recommendations are preliminary in nature based on the boring and test pit data from other areas of the project site during this investigation. The recommendations below are intended for planning purposes only and are not intended for final design and construction. A supplemental subsurface investigation is required for the proposed retaining walls so that additional design recommendations can be provided.

In the event that existing fill materials are present within the proposed wall areas, these materials must be completely removed from the limits of new wall construction. The removal of the topsoil or other unsuitable fill materials shall extend horizontally a minimum distance of five (5) feet beyond the front face of the new wall or extend horizontally a minimum distance equivalent to the vertical depth of the required excavation below the proposed wall base or foundation bearing elevation, whichever is greater. This is required to ensure that all unsuitable material has been removed from beneath the wall base or foundation zone of influence, which shall be defined by an imaginary plane projecting downward and away from the front edge of the wall base or foundation on a one horizontal to one vertical (1H:1V) projection.

The foundations for the new retaining wall may be placed on the virgin soil, weathered bedrock, or on new compacted fill approved by Carlin-Simpson & Associates. New compacted fill shall consist of either suitable on-site soil or imported sand and gravel. Imported fill shall contain less than 20% by weight passing the No. 200 sieve. The fill shall be placed in one (1) foot thick loose layers and compacted to at least 95% of its Maximum Modified Dry Density. Preliminarily, the footings or base of the wall can be designed using a net design bearing pressure of 4,000 psf (2.0 TSF).

For MSE walls, the wall base or foundation must be adequately embedded for internal and global stability. The embedment depth will be determined by the Wall Design Engineer. For reinforced concrete walls, the footing or base of the wall shall bear at least 42 inches below finished grade of the outside face of the wall for protection from frost. The wall foundation or base may bear at shallower depths when installed directly on the bedrock since rock is not susceptible to frost. Where both soil and rock are encountered within the wall foundation or base excavation, the "Special Construction Procedures" discussed above for the building foundations must be utilized.

Drains must be provided behind the retaining walls to prevent the buildup of hydrostatic pressure against the walls. The drain should consist of a 4-inch diameter perforated PVC pipe, surrounded with 3/4-inch clean crushed stone and wrapped in a geotextile fabric, Mirafi 140N or equivalent. The drain should be installed behind the base or foundation of the retaining wall to collect the water behind the wall and be connected into the site stormwater collection system or extended to daylight beyond the wall area.

Backfill placed directly behind the retaining walls shall consist of either suitable on-site soil or imported sand and gravel containing less than 20% by weight passing a No. 200 sieve. Each layer shall be compacted using a hand guided mechanical tamper to 92% of its

Maximum Modified Dry Density (ASTM D1557). Excessive compaction adjacent to the retaining walls must be avoided. Layers shall be tested and approved before placing subsequent layers. Large compaction equipment must not be used within ten (10) feet of the new walls to prevent potential damage to the walls.

The soil adjacent to the site retaining walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and the Coefficient of Active Earth Pressure (k_a). We estimate that the backfill material will have an in-place (moist) density of about 130 pcf and an angle of internal friction (ϕ) of 30° . For design, soil cohesion is assumed to be zero for the foundation soil, retained soil, and reinforced backfill. The active earth pressure coefficient (k_a) is 0.33 provided the grade behind the wall is level. Based on these properties, the retained soil will produce an Equivalent Fluid Pressure of 42.9 pcf against the retaining walls. If a sloping grade exists behind the new walls, the k_a and the Equivalent Fluid Pressure must be adjusted accordingly. In addition, any surcharge loads from structures, vehicles, or other retaining walls (i.e. tiered walls) must be considered in the wall design.

For sliding, the friction coefficient between mass concrete and the virgin site soils or new compacted fill is 0.45. For clean sound rock, a friction coefficient of 0.55 can be used. Where passive lateral earth pressure is to be included in the design of the wall, a maximum design value of 195 psf/ft may be used. This is based on a Coefficient of Passive Earth Pressure (k_p) of 3.0, an in-place soil backfill density of 130 pcf, and a factor of safety of 2.0.

The Wall Design Engineer shall prepare a complete wall design (i.e. drawings, specifications, and calculations), which shall be designed and sealed by a Professional Engineer registered in the State of New York and submitted to Carlin-Simpson & Associates for review and approval. MSE retaining walls shall be designed in accordance with the recommendations of the NCMA Design Manual for Segmental Retaining Walls (Current Edition).

The MSE wall design shall consider the internal stability of the reinforced soil mass and shall be in completed accordance with acceptable engineering practice. In addition, external stability, including sliding, overturning, and bearing, as well as global slope stability shall be evaluated in accordance with acceptable engineering practice.

The MSE Wall Designer Engineer shall be responsible for determining the required geogrid reinforcement lengths and elevations based on his stability analysis (including global stability) and the properties of the geogrid reinforcement used in the design. We anticipate that in the critical areas of the wall, global stability will be the controlling design criteria for the design of the geogrid reinforcement.

Stormwater Management Areas

We understand that the planned development will include one or more stormwater management areas. The preliminary grading plan shows a proposed infiltration basin with a forebay in the western portion of the project site. The plan also indicates that the basin will have a bottom elevation at +610.0. We also understand that there is an alternate stormwater

management area in the southwestern portion of the site, near the proposed fairway residences building. In addition, stormwater management areas will likely be required throughout the golf course property. However, at the time this report was prepared, the proposed stormwater management system had not been designed and the location, grades, and invert elevations of the system had not been finalized.

During this study, four (4) borings, one (1) test pit, one (1) borehole permeability test, and four (4) percolation tests were performed within or near the planned stormwater management areas. An addition ten (10) test pits (TP-19 through TP-28) were excavated at potential stormwater management areas throughout the golf course property. The tests were performed at the locations shown on the attached Boring and Test Pit Location Plan. The proposed test depths were provided by the project Site Engineer. The test depths were modified, however, based on the depth to bedrock encountered at the test locations.

The soil conditions encountered within the proposed infiltration basin area consist of a surface layer of topsoil (Stratum 1), approximately 0'6" to 0'9" in thickness, followed by existing fill (Stratum 2) in boring B-6. Below the topsoil and fill is virgin soil that consists of layers of Sandy Silt, Silty Sand, Sandy Gravel, Gravelly Sand, or Silty Gravelly Sand (Strata 3 and 4) followed by Gneiss bedrock (Stratum 5). Bedrock was encountered in the proposed infiltration basin area at depths ranging from 2'8" to 8'6" beneath the ground surface. These depths correspond to bedrock elevations ranging between elevation +611.5 and elevation +617.3, which is above the proposed bottom elevation of the infiltration basin.

In the alternate stormwater management area, the topsoil was underlain by approximately 5'6" of existing fill (Stratum 2) followed by layers of Sandy Silt and Silty Sand (Stratum 3). Groundwater was encountered in this portion of the site at depths ranging from 0'6" to 3'3" below the ground surface, which corresponds to groundwater levels ranging from approximately elevation +608.3 to elevation +613.2.

The subsurface soil and groundwater conditions encountered in the potential stormwater management areas throughout the golf course property vary across the site. The boring and test pit observations are summarized in Table 1 above.

In December 2012 and January 2013, permeability tests were performed within the proposed stormwater management areas. One (1) borehole permeability test (BP-4) and four (4) percolation tests (P-1 through P-4) were performed. The infiltration rates at the test locations are summarized in Table 3 below.

Table 3 – Field Permeability Test Results

| Permeability Test No. | Permeability Test Depth (Elevation) | Permeability Rate | Soil Description |
|------------------------------|--|--------------------------|--|
| BP-4 | 7'0" (+621.0) | 2.4 in/hour | Brown coarse to fine SAND, little Silt, some (+) coarse to fine Gravel |
| P-1 | 3'6" (+616.5) | >20 in/hour | Brown coarse to fine GRAVEL and, coarse to fine Sand, trace Silt |
| P-2 | 1'8" (+610.3) | NR | <i>Groundwater encountered 0'6" below the ground surface</i> |

| Permeability Test No. | Permeability Test Depth (Elevation) | Permeability Rate | Soil Description |
|-----------------------|-------------------------------------|-------------------|---|
| P-3 | 2'8" (+613.3) | >20 in/hour | Brown coarse to fine SAND, some Silt, and (-) coarse to fine Gravel |
| P-4 | 2'0" (+613.0) | NR | <i>Groundwater encountered 1'10" below the ground surface</i> |

NR – Not Recorded

Based on the field tests, the virgin soil in the areas of tests P-1 and P-3 has a permeability rate that exceeds 20 inches per hour. However, these tests were performed at elevations of +616.5 and +613.3, which are approximately 6'6" and 3'3" higher than the planned bottom of the proposed infiltration basin. Bedrock was encountered at depths of 4'9" (+615.3) and 5'6" (+611.5) below the surface at these test locations. In the event the virgin soil in the areas of tests P-1 and P-3 can be utilized for the stormwater management system, a permeability rate of 10 inches per hour should be used for preliminary design. This design permeability rate includes a factor of safety of 2.0.

Field permeability tests could not be performed at test locations P-2 and P-4 during this study since groundwater was encountered at depths of 0'6" (+611.5) and 1'10" (+613.2) below the ground surface, respectively. Should stormwater management areas be planned in other portions of the site, they must be evaluated on a case-by-case basis.

The stormwater management system should be designed in accordance with the applicable New York State Department of Conservation (NYSDEC) regulations and the New York State Stormwater Management Design Manual (August 2010). The testing requirements are outlined in Appendix D of the manual. The testing that was performed during this preliminary study was for initial feasibility testing for the stormwater management areas. Therefore, additional testing within the proposed subsurface system areas will be required to confirm the soil conditions and infiltration rates at the bottom of the system and to finalize the design of the system.

Pavement

We understand that the proposed construction will also include new asphalt paved driveways and parking areas. Based on the preliminary grading plan provided to this office, cuts ranging up to approximately 6'0" and fills ranging up to approximately 8'0" are anticipated to achieve the proposed pavement subgrade elevations. To prepare the new pavement areas, the existing surface materials (i.e. topsoil, vegetation, asphalt, etc.) must be removed from the planned pavement areas.

After all surface materials have been removed; the exposed subgrade that is either at or below the planned subgrade elevation shall be proofrolled with a large vibratory drum roller (i.e. Dynapac 250 or equivalent) to densify the underlying soils. The on-site representative from Carlin-Simpson & Associates shall witness the proofrolling operation. If any excessive movement is noted during the proofrolling, the soft or unsuitable soil shall be removed and replaced with new compacted fill.

Areas where existing fill is encountered shall be compacted in place. Carlin-Simpson & Associates must evaluate these areas for the presence of soft or unsuitable material within the existing fill matrix. Portions of this fill may have to be removed and replaced with new compacted fill. Carlin-Simpson & Associates will determine this during construction.

Where new fill is required to achieve final grades, it shall consist of either suitable on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20% by weight passing a No. 200 sieve. New fill shall be placed in layers not exceeding one (1) foot in loose thickness and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D1557). After the planned subgrade has been proofrolled and new compacted fill has been placed as required, the new pavement subbase may be placed on the existing site soils and new compacted fill.

When new fill is placed on a sloped subgrade, the fill layers must be benched a minimum of three (3) feet into the existing embankment. Fill layers shall be placed in horizontal layers, beginning at the base of the slope. End dumping over the top of a slope is not permitted.

The new pavement subbase may be placed on engineer-approved densified existing fill, virgin soil, or new compacted fill. A minimum of six (6) inches of dense graded aggregate (DGA) is recommended for the subbase layer for drainage and additional pavement support. We recommend that the following pavement sections be used for the parking lots and driveways. These pavement sections are subject to local government approval.

Parking Lots (Light Duty)

| | | |
|------|--|-----------------|
| 1 ½" | Asphalt Wearing Surface Course | NYSDOT, Type 6F |
| 2" | Asphalt Base Course | NYSDOT, Type 1 |
| 6" | Stone Subbase (DGA) | NYSDOT, Type 4 |
| | Approved Compacted Subgrade (Minimum CBR = 10) | |

Driveways (Medium Duty)

| | | |
|------|--|-----------------|
| 1 ½" | Asphalt Wearing Surface Course | NYSDOT, Type 6F |
| 2 ½" | Asphalt Base Course | NYSDOT, Type 1 |
| 8" | Stone Subbase (DGA) | NYSDOT, Type 4 |
| | Approved Compacted Subgrade (Minimum CBR = 10) | |

Based on the boring and test pit data, we anticipate that the existing site soils and new compacted fill will provide a CBR value that is equal to or greater than 10, which can adequately support the above pavement sections.

Utilities

New utilities may bear in the virgin soil, existing fill, new compacted fill, weathered rock, or rock. The bottom of all trenches should be excavated clean so a hard bottom is provided for pipe support. If any soft areas or unsuitable existing fill conditions are

encountered during the construction operation, these materials must be removed and replaced with new compacted fill.

In the event that the trench bottom becomes soft due to the inflow of surface or trapped water, the soft soil shall be removed and the excavation filled with a minimum of six (6) inches of 3/4-inch clean crushed stone to provide a firm base for support of the pipe. Sump pits and pumps should be adequate to keep the excavations dry.

After the utility is installed, the trench must be backfilled with compacted fill. The fill shall consist of suitable on-site soil or imported sand and gravel containing less than 20% by weight passing a No. 200 sieve. Large rock fragments must not be placed directly against the pipe. Controlled compacted fill shall be placed in one (1) foot loose layers and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D1557). The backfill must be free of topsoil, debris and large boulders or rock fragments.

Temporary Construction Excavations

Temporary construction excavations shall be conducted in accordance with the most recent OSHA guidelines or applicable federal, state, or local codes. Based on the results of the borings and test pits, we believe the site soils and rock would have the following classifications as defined by OSHA guidelines.

| <u>Soil/Rock Type</u> | <u>Possible Classification</u> |
|------------------------------|---------------------------------------|
| On Site Fill | Type "C" |
| Virgin Sandy Soils | Type "B" or "C" |
| Weathered or Intact Bedrock | Type "A" or Stable Rock |

Further evaluation of the site soil deposits will be required in the field by a qualified person at the time of the excavation to determine the proper OSHA classification and allowable slope configuration. Temporary support (i.e. sheeting and shoring) should be used for any excavation that cannot be sloped or benched in accordance with the applicable regulations.

Suitability of the In-Situ Soils for Use as Compacted Fill

The suitability of each soil stratum for use as compacted fill is discussed below.

Stratum 1
Topsoil Topsoil is not suitable for use as compacted fill. During construction, it may be stockpiled on site for later use in the landscaped areas or removed from the site.

Stratum 2
Existing Fill The existing fill that was encountered at the site generally consists of brown coarse to fine Sand, little (to and) Silt, trace (to some) coarse to fine Gravel with occasional cobbles, boulders, topsoil, roots, and debris. Some of the existing fill may be suitable for use as compacted fill at the site

provided that it remains relatively dry for optimum compaction and that any debris (i.e. concrete, wood, etc.) and organic material (i.e. topsoil, roots, etc.) have been removed prior to its reuse.

Strata 3 & 4 The virgin site soils that may be excavated during construction consist of layers of Sandy Silt, Silty Sand, Sand or Sandy Gravel with occasional cobbles and boulders. This material is generally suitable for use as compacted fill, provided that it remains relatively dry for optimum compaction. Large cobbles and boulders shall not be used as new structural fill in the proposed building areas or in utility trenches.

Stratum 5 Excavated rock may also be used as fill material for the building and paved areas provided that the material conforms to the required gradation, is well-graded, and has been approved prior to use by Carlin-Simpson & Associates. All rock fill must be well blended with smaller rock fragments and/or soil. Open voids within the rock fill matrix must be avoided. Small boulders up to 24 inches in diameter may be placed in parking lot fills deeper than ten (10) feet below the finished pavement. Boulders must not be clustered and must be sufficiently surrounded with soil fill. We recommend that the boulders and excavated rock be processed by a crusher to provide suitable fill material for the building and pavement areas.

Rock fill shall be placed in 12-inch loose layers and compacted with multiple passes of a large vibratory roller to a firm and non-yielding state as determined by the on-site representative from Carlin-Simpson & Associates. Rock fill should not be used where it will interfere with the installation of foundations or utilities. Also, it shall not be used as backfill directly against concrete walls or utilities. Use of rock fill within the planned building and pavement areas shall be limited to the gradations limitations provided in Table 4 below.

Table 4 - Gradation Limitations for Rock Fill

| Area | Location | Maximum Particle Size |
|---------------|--|------------------------------|
| Building Area | Within 4 feet of Finished Floor | 3 inches |
| | More than 4 feet below Finished Floor | 12 inches |
| Pavement Area | Within 4 feet of Finished Grade | 6 inches |
| | More than 4 feet below Finished Grade | 18 inches |
| | More than 10 feet below Finished Grade | 24 inches |

Proper moisture conditioning of the soil will be required. In the event that the on-site material is too wet at the time of placement and cannot be adequately compacted, the soil should be aerated and allowed to dry or the material removed and a drier cleaner fill material used. In the event that the on-site material is too dry at the time of placement and cannot be adequately compacted, water may be needed to increase the soil moisture content for proper compaction.

The in-situ soils which exist throughout the site may become soft and weave if exposed to excessive moisture and construction traffic. The instability will occur quickly when exposed to these elements and it will be difficult to stabilize the subgrade. We recommend that adequate site drainage be implemented early in the construction schedule and if the subgrade becomes wet, the Contractor should limit construction activity until the soil has dried.

GENERAL

The findings, conclusions and recommendations presented in this report represent our professional opinions concerning subsurface conditions at the site. The opinions presented are relative to the dates of our site work and should not be relied on to represent conditions at later dates or at locations not explored. The opinions included herein are based on information provided to us, the data obtained at specific locations during the study and our past experience. If additional information becomes available that might impact our geotechnical opinions, it will be necessary for Carlin-Simpson & Associates to review the information, reassess the potential concerns, and re-evaluate our conclusions and recommendations. Additional subsurface exploration may be required.

Regardless of the thoroughness of a geotechnical exploration, there is the possibility that conditions between borings and test pits will differ from those encountered at specific boring or test pit locations, that conditions are not as anticipated by the designers and/or the contractors, or that either natural events or the construction process have altered the subsurface conditions. These variations are an inherent risk associated with subsurface conditions in this region and the approximate methods used to obtain the data. These variations may not be apparent until construction.

The professional opinions presented in this geotechnical report are not final. Field observations and foundation installation monitoring by the geotechnical engineer, as well as soil density testing and other quality assurance functions associated with site earthwork and foundation construction, are an extension of this report. Therefore, Carlin-Simpson & Associates should be retained by the Owner to observe all earthwork and foundation construction, to document that the conditions anticipated in this study actually exist, and to finalize or amend our conclusions and recommendations. Carlin-Simpson & Associates is not responsible or liable for the conclusions and recommendations presented in this report if Carlin-Simpson & Associates does not perform these observation and testing services.

Therefore, in order to preserve continuity in this project, the Owner must retain the services of Carlin-Simpson & Associates to provide full time geotechnical related monitoring and testing during construction. At a minimum, this shall include the observation and testing of the following: 1) the removal of existing fill and unsuitable soil, where required; 2) the proofrolling of the subgrade soil prior to the placement of new compacted fill; 3) the placement and compaction of controlled fill; 4) the excavation for the building foundations; 5) the preparation of the subgrade for the floor slabs and pavement areas; and 6) the construction of the proposed retaining walls.

This report has been prepared in accordance with generally accepted geotechnical engineering practice. No other warranty is expressed or implied. The evaluations and

recommendations presented in this report are based on the available project information, as well as on the results of the exploration. Carlin-Simpson & Associates should be given the opportunity to review the final drawings and site plans for this project to determine if changes to the recommendations outlined in this report are needed. Should the nature of the project change, these recommendations should be re-evaluated.

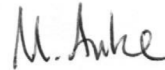
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If the conditions encountered during construction vary significantly from those stated in this report, this office should be notified immediately so that additional recommendations can be made.

Thank you for allowing us to assist you with this project. Should you have any questions or comments, please contact this office.

Very truly yours,

CARLIN-SIMPSON & ASSOCIATES



MEREDITH R. ANKE, P.E.
Project Engineer



ROBERT B. SIMPSON, P.E.



| | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +661.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|--------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | 18 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: |
| | | | | | | | | INSPECTOR: |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | SYMBOL | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|--------|---|--------------------------------|
| | | | 7 | | <u>Clay Tennis Court</u> | |
| 1 | | S-1 | 9 | | Br \$ a (+), cf S, l (-) mf G | Rec = 17" |
| | | | 12 | | | moist |
| 2 | | | 14 | | | |
| | | | 19 | same | | |
| 3 | | S-2 | 23 | | <u>Brown SILT and (+), coarse to fine Sand, little (-) medium to fine Gravel</u> | Rec = 15" |
| | | | 50/3" | | | moist |
| 4 | | | | | | possible weathered rock in tip |
| | | | | | | 5'0" |
| 5 | | | | | | |
| | | | 29 | | Br cf S, l (+) \$ (completely weathered gneiss) | |
| 6 | | S-3 | 75/4" | | <u>Brown coarse to fine SAND, little (+) Silt (completely weathered Gneiss)</u> | Rec = 6" |
| | | | | | | moist |
| 7 | | | | | | |
| | | S-4 | 70/3" | | | Rec = 3" |
| 8 | | | | | | moist |
| | | | | | <u>End of Boring @ 8'0"</u> | Auger refusal @ 8'0" |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +628.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|--------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | 18 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: |
| | | | | | | | | INSPECTOR: |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | SYMBOL | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|--------|---|-----------------------|
| | | | 2 | | <u>Topsoil</u> | 0'6" |
| 1 | | S-1 | 3 | | Br \$ a (+), cf S, t mf G | Rec = 15" moist |
| | | | 2 | | | |
| 2 | | | 2 | | same | Rec = 16" moist |
| | | | 3 | | | |
| 3 | | S-2 | 9 | | <u>Brown SILT and (+), coarse to fine Sand, trace medium to fine Gravel</u> | Rec = 17" moist |
| | | | 11 | | | |
| 4 | | | 15 | | | |
| 5 | | | | | same | Rec = 17" moist |
| | | | 10 | | | |
| 6 | | S-3 | 12 | | | weathered rock in tip |
| | | | 16 | | | |
| 7 | | | 50/3" | | <u>End of Boring @ 7'0"</u> | Auger refusal @ 7'0" |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +620.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|------|------------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: 18 Dec 12 |
| No water encountered | | | | DIA. | 3 1/4" | 1 3/8" | | FINISH DATE: 18 Dec 12 |
| | | | | WGHT | | 140# | | DRILLER: T. McGovern |
| | | | | FALL | | 30" | | INSPECTOR: JB |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|---|--|---|
| | | | | | | | |
| | | | 3 | | <u>Topsoil</u> | | |
| 1 | | S-1 | 6 | | Br \$ a (-), cf S, t mf G | | Rec = 17" moist |
| 2 | | | 6 | | <u>Brown SILT and (-), coarse to fine Sand, trace medium to fine Gravel</u> | | |
| | | | 14 | | | | |
| 3 | | S-2 | 25/5" | | Lt br cf G a, cf S, t \$ (completely weathered gneiss) | | Rec = 5" moist |
| 4 | | | | | <u>Light brown coarse to fine GRAVEL and, coarse to fine Sand, trace Silt (completely weathered Gneiss)</u> | | |
| 5 | | | | | | | |
| | | | 23 | | Br cf G s, cf S, t \$ (completely weathered gneiss) | | |
| 6 | | S-3 | 75/3" | | <u>End of Boring @ 4'9"</u> | | Rec = 6" moist Auger refusal @ 4'9" |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +628.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|------------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: 18 Dec 12 |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | FINISH DATE: 18 Dec 12 |
| | | | | WGHT | | 140# | | DRILLER: T. McGovern |
| | | | | FALL | | 30" | | INSPECTOR: JB |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | | REMARKS |
|-------------|-----------------------|------------|------------------------------|------|---|-------|--|
| | | | | | | | |
| | | | 2 | | <u>Topsoil</u> | | |
| 1 | | S-1 | 1 | | Br cf S, a \$, t f G | 0'6" | Rec = 14" moist |
| 2 | | | 2 | | <u>Brown coarse to fine SAND, and Silt, trace fine Gravel</u> | 2'0" | |
| 3 | | S-2 | 10 | | Gr cf S t \$, a cf G (completely weathered gneiss) | | Rec = 13" moist weathered rock 3'-4' |
| 4 | | | 20 | | | | |
| 5 | | | 45 | | | | |
| 6 | | S-3 | 9 | | Br cf S, l \$, s (+) cf G (completely weathered gneiss) | | Rec = 17" moist |
| 7 | | | 11 | | | | |
| 8 | | | 13 | | <u>Brown coarse to fine SAND, little Silt, some (+) coarse to fine Gravel</u> | | |
| 9 | | S-4 | 18 | same | <u>(completely weathered Gneiss)</u> | | Rec = 14" moist |
| 10 | | | 26 | | | | |
| 11 | | | 30 | | | | |
| 12 | | S-5 | 43 | | | | Refusal on spoon @ 10'6" |
| 13 | | | 75/6" | same | | 10'6" | |
| 14 | | | | | <u>End of Boring @ 10'6"</u> | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
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| Project: Proposed Renovations, Byrnwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +623.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|------|------------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: 18 Dec 12 |
| No water encountered | | | | DIA. | 3 1/4" | 1 3/8" | | FINISH DATE: 18 Dec 12 |
| | | | | WGHT | | 140# | | DRILLER: T. McGovern |
| | | | | FALL | | 30" | | INSPECTOR: JB |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|---|---|
| 1 | | S-1 | 2 | | Br cf S, s (+) \$, t f G <u>Brown coarse to fine SAND, some (+) Silt, trace fine Gravel</u> | Rec = 17" moist |
| | | | 2 | | | |
| 2 | | | 3 | | | |
| | | S-2 | 13 | | Br cf S, l \$, s cf G <u>Brown coarse to fine SAND, little Silt, some coarse to fine Gravel (completely weathered Gneiss)</u> | Rec = 17" moist weathered rock in tip |
| 3 | | | 22 | | | |
| | | | 10 | | | |
| 4 | | S-3 | 16 | | same, weathered gneiss | Rec = 18" moist weathered rock |
| | | | 26 | | | |
| 5 | | | 23 | | | |
| 6 | | | 62 | | <u>End of Boring @ 8'6"</u> | 8'6" Auger refusal @ 8'6" |
| | | 55 | | | | |
| 7 | | 81 | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
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| Project: Proposed Renovations, Byrnwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +617.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|------------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: 19 Dec 12 |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | FINISH DATE: 19 Dec 12 |
| | | | | WGHT | | 140# | | DRILLER: T. McGovern |
| | | | | FALL | | 30" | | INSPECTOR: KWA |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|--|----------------------|
| | | | 2 | | <u>Topsoil</u> | 0'6" |
| 1 | | S-1 | 6 | | FILL (Br cf S, l \$) | 1'0" |
| | | | 5 | | FILL (Brown coarse to fine SAND, little Silt) | |
| 2 | | | 10 | | | |
| | | S-2 | 12 | | Br cf S, s \$, a (-) cf G | |
| 3 | | | 11 | | same | Rec = 11" moist |
| | | | 11 | | | |
| 4 | | | 52 | | <u>Brown coarse to fine SAND, some Silt, and (-) coarse to fine Gravel</u> | |
| | | S-3 | | | | |
| 5 | | | 75/2" | | | 5'6" |
| 6 | | | | | <u>End of Boring @ 5'6"</u> | Auger refusal @ 5'6" |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +628.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|-------------|--------|------|------------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: 19 Dec 12 |
| No water encountered | | | | | DIA. 3 1/4" | 1 3/8" | | FINISH DATE: 19 Dec 12 |
| | | | | WGHT | | 140# | | DRILLER: T. McGovern |
| | | | | FALL | | 30" | | INSPECTOR: KWA |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|--|--|
| | | | 2 | | <u>Topsoil</u> | |
| 1 | | S-1 | 4 | | Br cf S, l \$, l f G | Rec = 18" moist |
| 2 | | | 5 | | | |
| 3 | | S-2 | 13 | | same <u>Brown coarse to fine SAND, little Silt, little fine Gravel</u> | Rec = 17" moist |
| 4 | | | 28 | | | |
| 5 | | | 22 | | | |
| 6 | | S-3 | 12 | | Br cf S, l \$, t f G (completely weathered gniess) | Rec = 15" moist very dense augering 7'-10' |
| 7 | | | 14 | | | |
| 8 | | | 19 | | | |
| 9 | | S-4 | 28 | | <u>Brown coarse to fine SAND, little Silt, trace fine Gravel (completely weathered Geniss)</u> | |
| 10 | | | 75 | | | |
| 11 | | S-4 | 50/3" | | same | Rec = 6" moist very dense augering 10'-15' |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | S-4 | | | same | |
| 15 | | | 50/2" | | | |
| 16 | | | | | <u>End of Boring @ 15'2"</u> | No recovery Spoon bouncing @ 15'2" |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

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| Project: Proposed Renovations, Byrnwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +609.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|-------------|------|-------|--------|--------|--------|--------|------|----------------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| 19 Dec 12 | 1130 | 3'3" | None | DIA. | 3 1/4" | 1 3/8" | | 19 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: T. McGovern |
| | | | | | | | | INSPECTOR: KWA |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|---|-------------------|
| | | | 2 | | <u>Brown Topsoil</u> | 0'6" |
| 1 | | S-1 | 4 | | FILL (Br cf S, a \$, t cf G) | Rec = 4" moist |
| | | | 8 | | | |
| 2 | | | 7 | | | |
| | | | 10 | | FILL (same) | |
| 3 | | S-2 | 11 | | <u>FILL (Brown coarse to fine SAND, and Silt, trace coarse to fine Gravel)</u> | No recovery moist |
| | | | 11 | | | |
| 4 | | | 13 | | | |
| 5 | | | | | | |
| | | | 13 | | FILL (same) | 5'6" |
| 6 | | S-3 | 8 | | Mtld gr, or br Cy \$ s, cf S, w/t roots | Rec = 18" moist |
| | | | 7 | | <u>Mottled gray, orange brown Clayey SILT some, coarse to fine Sand, with</u> | |
| 7 | | | 8 | | <u>roots</u> | |
| 8 | | S-4 | 8 | | Gr br cf S, s (+) \$, l cf G | Rec = 15" wet |
| | | | 7 | | | |
| 9 | | | 8 | | <u>Gray brown coarse to fine SAND, some (+) Silt, little coarse to fine Gravel</u> | |
| 10 | | | | | | |
| | | | 15 | | same, l cf G | |
| 11 | | S-5 | 25 | | | Rec = 16" wet |
| | | | 26 | | | |
| 12 | | | 35 | | | |
| | | | | | <u>End of Boring @ 12'0"</u> | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +674.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|--------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | 19 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: |
| | | | | | | | | INSPECTOR: |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|--|----------------------|
| | | | 8 | | <u>Clay Tennis Court</u> | |
| 1 | | S-1 | 8 | | FILL (Br cf S, s \$, s (+) cf G) | Rec = 17" |
| | | | 8 | | | moist |
| 2 | | | 17 | | | |
| | | | 17 | | FILL (same) | |
| 3 | | S-2 | 12 | | | Rec = 15" |
| | | | 7 | | <u>FILL (Brown coarse to fine Sand, some Silt, some (+) coarse to fine Gravel)</u> | moist |
| 4 | | | 13 | | | |
| 5 | | | | | | |
| | | | 10 | | FILL (Br cf S, s \$, l cf G) | |
| 6 | | S-3 | 4 | | | Rec = 15" |
| | | | 5 | | | moist |
| 7 | | | 11 | | | 7'0" |
| | | S-4 | 50/3" | | <u>Highly to moderately weathered Gneiss</u> | Rec = 3" |
| 8 | | | | | <u>Eknd of Boring @ 7'6"</u> | moist |
| 9 | | | | | | Auger refusal @ 7'0" |
| 10 | | | | | | |
| 11 | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +638.8 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|--------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | 19 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: |
| | | | | | | | | INSPECTOR: |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS | |
|-------------|-----------------------|------------|------------------------------|-----|--|--|-----------------------------------|
| | | | 2 | | <u>Topsoil</u> 0'1" | | |
| 1 | | S-1 | 3 | | Br cf \$ s, cf S, l cf G <u>Brown coarse to fine SILT some, coarse to fine Sand, little coarse to fine Gravel</u> | Rec = 15" moist Auger refusal @ 2'0" | |
| 2 | | | 6 | | | | 2'0" |
| 3 | | Run #1 | | | <u>Gray, white Gneiss</u> | Run #1 2'0"-7'0" Run = 60" Rec = 52" = 86% RQD = 53% | |
| 4 | | | | | | | |
| 5 | | | | | | | 5'0" |
| 6 | | | | | | | <u>Soil seam</u> 5'8" |
| 7 | | | | | | | <u>Gray, white Gneiss</u> 7'0" |
| 8 | | | | | <u>End of Boring @ 7'0"</u> | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
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| Project: Proposed Renovations, Byrwood Club Development, North Castle, NY | SHEET NO.: 1 of 1 |
| Client: JBM Realty | JOB NUMBER: 12-175 |
| Drilling Contractor: General Borings, Inc. | ELEVATION: +640.0 |

| GROUNDWATER | | | | CASING | SAMPLE | CORE | TUBE | DATUM: |
|----------------------|------|-------|--------|--------|--------|--------|--------|--------------|
| DATE | TIME | DEPTH | CASING | TYPE | HSA | SS | | START DATE: |
| No water encountered | | | | | DIA. | 3 1/4" | 1 3/8" | 19 Dec 12 |
| | | | | WGHT | | 140# | | FINISH DATE: |
| | | | | FALL | | 30" | | DRILLER: |
| | | | | | | | | INSPECTOR: |

| Depth (ft.) | Casing Blows per Foot | Sample No. | Blows on Sample Spoon per 6" | Sym | IDENTIFICATION | REMARKS |
|-------------|-----------------------|------------|------------------------------|-----|---------------------------------------|---------------------------|
| | | | 2 | | <u>Topsoil</u> | |
| 1 | | S-1 | 3 | | | Rec = 20" |
| | | | | | Br cf S, l (+) \$ | moist |
| 2 | | | 7 | | | |
| | | | | | same, dk br | |
| 3 | | S-2 | 6 | | <u>Brown coarse to fine SAND,</u> | Rec = 17" |
| | | | 8 | | <u>little (+) Silt</u> | moist |
| 4 | | | 23 | | | 4'0" |
| 5 | | | | | <u>Completely to highly weathered</u> | |
| | | | | | <u>Gneiss</u> | |
| 6 | | | | | | 5'6" Auger refusal @ 5'6" |
| 7 | | | | | <u>End of Boring @ 5'6"</u> | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

3 January 2013

TEST PIT LOGS

| | | | |
|--------------------|---|--------------|-------|
| <u>TP-1</u> | Elevation +662 | | |
| 0-0'9" | Brown Topsoil | | |
| 0'9"-2'0" | Brown coarse to fine SAND, and Silt, trace (+) medium to fine Gravel | medium dense | moist |
| 2'0" | Gneiss bedrock No water encountered | | |
| | | | |
| <u>TP-2</u> | Elevation +672 | | |
| 0-1'10" | FILL (Brown coarse to fine SAND, some silt, little (-) coarse to fine Gravel, with topsoil) | medium dense | moist |
| 1'10"-4'4" | Light brown coarse to fine SAND, some (+) Silt | medium dense | moist |
| 4'4" | Gneiss bedrock No water encountered | | |
| | | | |
| <u>TP-3</u> | Elevation +672 | | |
| 0-0'9" | Dark brown Topsoil with surface debris | | |
| 0'9"-2'2" | Brown coarse to fine SAND, some Silt | medium dense | moist |
| 2'2" | Gneiss bedrock No water encountered | | |

3 January 2013

TEST PIT LOGS

| | | | |
|--------------------|--|--------------|-------|
| <u>TP-4</u> | Elevation +672 | | |
| 0-0'6" | Brown Topsoil | | |
| 0'6"-3'6" | Brown coarse to fine SAND, and (-) Silt, some coarse to fine Gravel | medium dense | moist |
| 3'6" | Gneiss bedrock No water encountered | | |
| <u>TP-5</u> | Elevation +670 | | |
| 0-0'7" | Brown Topsoil | | |
| 0'7"-3'8" | Light brown coarse to fine SAND, some (+) Silt | medium dense | moist |
| 3'8"-4'9" | Brown coarse to fine SAND, some Silt (completely weathered gneiss) | dense | moist |
| 4'9" | Gneiss bedrock No water encountered | | |

3 January 2013

TEST PIT LOGS

| | | | |
|--------------------|--|--------------|-------|
| <u>TP-6</u> | Elevation +672 | | |
| 0-0'10" | Brown Topsoil | | |
| 0'10"-2'10" | Light brown coarse to fine SAND, some (-) Silt, little coarse to fine Gravel | medium dense | moist |
| 2'10"-4'7" | Brown coarse to fine SAND, some Silt, little coarse to fine Gravel (completely weathered gneiss) | dense | moist |
| 4'7" | Gneiss bedrock No water encountered | | |
| | | | |
| <u>TP-7</u> | Elevation +620 | | |
| 0-0'9" | Brown Topsoil | | |
| 0'9"-2'8" | Brown coarse to fine SAND, some Silt, trace coarse to fine Gravel | medium dense | moist |
| 2'8" | Probable Gneiss bedrock Test pit abandoned No water encountered | | |
| | | | |
| <u>TP-8</u> | Elevation +614 | | |
| 0-0'8" | Dark brown Topsoil | | |
| 0'8"-5'0" | Mottled orange brown, gray coarse to fine SAND, and (-) Silt | medium dense | moist |
| | Groundwater encountered @ 4'1" | slow inflow | |

3 January 2013

TEST PIT LOGS

| | | | |
|---------------------|--|--------------|-------|
| <u>TP-9</u> | Elevation +628 | | |
| 0-0'4" | Topsoil | | |
| 0'4"-6'9" | FILL (Brown coarse to fine SAND, some (+) Silt, some (+) coarse to fine Gravel, with cobbles and boulders) | medium dense | moist |
| 6'9" | FILL (Gray coarse to fine SAND, trace (+) Silt) | medium dense | moist |
| | Possible cover over for utility Test pit was abandoned | | |
| | No water encountered | | |
| | | | |
| <u>TP-10</u> | Elevation +625 | | |
| 0-0'4" | Topsoil | | |
| 0'4"-3'0" | FILL (Boulders with topsoil) | loose | moist |
| 3'0"-8'0" | Brown coarse to fine SAND, some (+) Silt | medium dense | moist |
| | No water encountered | | |

3 January 2013

TEST PIT LOGS

| | | | |
|---------------------|--|--------------|-------|
| <u>TP-11</u> | Elevation +642 | | |
| 0-0'6" | Brown Topsoil | | |
| 0'6"-3'9" | Brown coarse to fine SAND, some Silt, little coarse to fine Gravel, with occasional cobbles and boulders | medium dense | moist |
| 3'9"-6'0" | Brown coarse to fine SAND, little (+) Silt, some coarse to fine Gravel (completely weathered gneiss) | dense | moist |
| 6'0" | Weathered Gneiss bedrock No water encountered | | |
| | | | |
| <u>TP-12</u> | Elevation +635 | | |
| 0-0'6" | Brown Topsoil | | |
| 0'6"-5'0" | FILL (Brown coarse to fine SAND, some (+) Silt, little (-) coarse to fine Gravel, with trace of debris) | loose | moist |
| 5'0"-6'6" | Orange brown, gray coarse to fine SAND and Silt | dense | moist |
| | Refusal on boulder No water encountered | | |

4 January 2013

TEST PIT LOGS

| | | | |
|---------------------|---|--------------|-------|
| <u>TP-13</u> | Elevation +636 | | |
| 0-0'9" | Brown Topsoil with roots | | |
| 0'9"-6'3" | Brown coarse to fine SAND, and Silt, little coarse to fine Gravel | medium dense | moist |
| 6'3"-7'5" | Brown coarse to fine SAND, some (+) Silt, little (-) coarse to fine Gravel | dense | moist |
| 7'5" | Gneiss bedrock | | |
| | Groundwater encountered @ 4'10" | slow inflow | |
| | | | |
| <u>TP-14</u> | Elevation +625 | | |
| 0-0'3" | Brown Topsoil | | |
| 0'3"-3'4" | FILL (Gray brown coarse to fine SAND, some Silt, little coarse to fine Gravel, with cobbles and boulders) | loose | moist |
| 3'4"-5'0" | FILL (Brown coarse to fine SAND, little Silt) | medium dense | moist |
| 5'0" | Gneiss bedrock No water encountered | | |

4 January 2013

TEST PIT LOGS

| | | | |
|---------------------|--|--------------|-------|
| <u>TP-15</u> | Elevation +668 | | |
| 0-0'3" | Brown Topsoil | | |
| 0'3"-1'8" | Brown coarse to fine SAND, some (+) Silt, some (-) coarse to fine Gravel, with occasional cobbles and boulders | medium dense | moist |
| 1'8" | Gneiss bedrock No water encountered | | |
| | | | |
| <u>TP-16</u> | Elevation +651 | | |
| 0-0'8" | Dark brown Topsoil | | |
| 0'8"-1'10" | FILL (Brown coarse to fine SAND, some (+) Silt, trace medium to fine Gravel, with cobbles) | medium dense | moist |
| 1'10"-4'10" | Brown coarse to fine SAND, some (+) Silt, trace medium to fine Gravel | medium dense | moist |
| 4'10" | Gneiss bedrock No water encountered | | |

4 January 2013

TEST PIT LOGS

| | | | |
|---------------------|--|--------------|-------|
| <u>TP-17</u> | Elevation +655 | | |
| 0-0'3" | Topsoil | | |
| 0'3"-1'0" | Brown coarse to fine SAND, some (+) Silt, little coarse to fine Gravel | medium dense | moist |
| | Encountered irrigation pipes Test pit abandoned No water encountered | | |
| <u>TP-18</u> | Elevation +670 | | |
| 0-0'10" | Brown Topsoil | | |
| 0'10"-7'0" | Brown SILT and, coarse to fine Sand, little (-) medium to fine Gravel | medium dense | moist |
| | No water encountered | | |

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TEST PIT LOGS

TP-19

| | | | |
|-----------|--|--------------|-------|
| 0-2'5" | FILL (Brown coarse to fine SAND, some Silt, some coarse to fine Gravel, with topsoil, cobbles, boulders) | loose | moist |
| 2'5"-7'0" | Brown coarse to fine SAND, some Silt, little coarse to fine Gravel | medium dense | moist |
| | No water encountered | | |

TP-20

| | | | |
|-----------|--|--------------|-------|
| 0-0'6" | Brown Topsoil | | |
| 0'6"-4'3" | Brown, orange brown coarse to fine SAND, some Silt, little coarse to fine Gravel | medium dense | moist |
| 4'3"-8'0" | Orange brown coarse to fine SAND, little (-) Silt, some coarse to fine Gravel, with occasional cobbles | medium dense | moist |
| | No water encountered | | |

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TEST PIT LOGS

TP-21

| | | | |
|-----------|--|--------------|-------|
| 0-0'6" | Dark brown Topsoil | | |
| 0'6"-1'4" | FILL (Brown coarse to fine SAND, some (-) Silt, trace medium to fine Gravel, with few roots) | medium dense | moist |
| 1'4"-7'0" | Brown coarse to fine SAND, little Silt, trace (+) coarse to fine Gravel, with occasional cobbles | medium dense | moist |
| 7'0" | Possible weathered bedrock | | |
| | No water encountered | | |

TP-22

| | | | |
|-----------|---|--------------|-------|
| 0-1'6" | Dark brown Topsoil, with roots | | |
| 1'6"-2'8" | Mottled gray brown, orange brown Clayey SILT, little medium to fine Sand | medium dense | moist |
| 2'8"-3'6" | Brown coarse to fine SAND, some (+) Silt, little medium to fine Gravel | medium dense | moist |
| 3'6"-6'0" | Brown coarse to fine SAND, little (+) Silt, come coarse to fine Gravel | medium dense | wet |
| 6'0"-7'6" | Gray brown SILT little, coarse to fine Sand, trace medium to fine Gravel | medium dense | wet |
| | Groundwater encountered @ 4'6" | slow inflow | |

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TEST PIT LOGS

TP-23

| | | | |
|------------|--|-------|-------|
| 0-0'7" | Brown Topsoil | | |
| 0'7"-3'10" | Brown coarse to fine SAND, and (-) Silt, little (-) coarse to fine Gravel | dense | moist |
| 3'10" | Weathered bedrock | | |
| | No water encountered | | |

TP-24

| | | | |
|-----------|---|--------------|-------|
| 0-0'8" | Brown Topsoil | | |
| 0'8"-6'8" | Brown coarse to fine SAND, some (+) Silt, little (-) coarse to fine Gravel, with occasional cobbles | medium dense | moist |
| 6'8" | Possible weathered bedrock or boulder | | |
| | No water encountered | | |

TP-25

| | | | |
|-----------|---|--------------|-------|
| 0-0'4" | Brown Topsoil | | |
| 0'4"-3'4" | Brown coarse to fine SAND, and Silt, trace medium to fine Gravel | medium dense | moist |
| 3'4" | Possible bedrock or boulder | | |
| | No water encountered | | |

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TEST PIT LOGS

TP-26

| | | | |
|-----------|--|--------------|-------|
| 0-0'6" | Brown Topsoil | | |
| 0'6"-2'8" | FILL (Brown coarse to fine SAND, some (-) Silt, little coarse to fine Gravel, with cobbles and boulders) | medium dense | moist |
| 2'8"-4'0" | FILL (Brown Topsoil, with trace roots) | | |
| 4'0"-5'6" | FILL (Dark gray brown Clayey SILT, and, coarse to fine Sand, with trace roots, trace debris) | medium stiff | moist |
| 5'6"-8'0" | Brown coarse to fine SAND, and (-) Silt, trace coarse to fine Gravel | medium dense | moist |
| | No water encountered | | |

TP-27

| | | | |
|-----------|--|--------------|-----|
| 0-0'9" | Brown Topsoil, with roots | | |
| 0'9"-4'4" | Light brown coarse to fine SAND, little Silt, trace coarse to fine Gravel | medium dense | dry |
| 4'4" | Probable weathered bedrock | | |
| | No water encountered | | |

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TEST PIT LOGS

TP-28

| | | | |
|-----------|--|--------------|-------|
| 0-0'4" | Brown Topsoil | | |
| 0'4"-8'6" | FILL (Brown coarse to fine SAND, little Silt, little coarse to fine Gravel, with organics, debris) | loose | moist |
| 8'6"-9'0" | FILL (Gray coarse to fine SAND, some Silt, little coarse to fine Gravel, with organics) | medium dense | wet |
| | Groundwater encountered @ 8'0" | | |

18 -19 December 2012

Borehole Permeability Test (B-4)

Ground Surface Elevation: +628.0

Top of Casing Elevation: +631.5

Bottom of Test Hole Elevation: +621.0

Test Hole Depth from Ground Surface Elevation: 7'0" (84")

Pre-Soak:

Start Date: 18 Dec 2012 Time: 1545 Water Level*: 4'4"

End Date: 19 Dec 2012 Time: 0900 Water Level*: 7'1"

33" drop H₂O in 1035 minutes (17 hr. 15 min.) = 0.03 inches per minute

Test:

Start Date: 19 Dec 2012 Time: 1000 Water Level*: 4'3"

End Date: 19 Dec 2012 Time: 1515 Water Level*: 5'3.5"

12.5" drop H₂O in 315 minutes (5 hr. 15 min.) = 0.04 inches per minute

| Time | Water Level* | Interval Water Level Drop (Inches) | Cumulative Water Level Drop (Inches) |
|-------------|---------------------|---|---|
| 1000 | 4'3" | 0 | 0 |
| 1100 | 4'6" | 3 | 3 |
| 1200 | 4'8" | 2 | 5 |
| 1300 | 4'10" | 2 | 7 |
| 1400 | 5'1" | 3 | 10 |
| 1515 | 5'3.5" | 2.5 | 12.5 |

Water Level* - Depth below top of casing (elevation +631.5)

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Percolation Test P-1
(Elevation +620)

Test hole depth 42" from ground surface elevation

Pre-Soak

0-10 min, 22" drop of H₂O (pipe drained)
22" drop H₂O in 10 minutes = 2.20 inches per minute

Test Run #1

5 min, 15" drop H₂O (re-filled pipe)

Test Run #2

5 min, 14" drop H₂O (re-filled pipe)

Test Run #3

5 min, 12" drop H₂O (re-filled pipe)

Final Test Reading

Start @ 1245, 14" from top of pipe
Finish @ 1300, 36" drop from top of pipe (pipe drained)
22" drop H₂O in 15 minutes = 1.46 inches per minute

Percolation Hole P-2
(Elevation + 612)

Test hole depth 20" from ground elevation
Groundwater @ 0'6" below surface
Percolation test unable to be performed

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Percolation Test P-3
(Elevation + 616)

Test hole depth 32" from ground surface elevation

Pre-Soak

0-24 min, 17" drop of H₂O (pipe drained)
17" drop H₂O in 24 minutes = 0.71 inches per minute

Test Run #1

5 min, 5" drop H₂O (re-filled pipe)

Test Run #2

5 min, 5" drop H₂O (re-filled pipe)

Test Run #3

5 min, 4" drop H₂O (re-filled pipe)

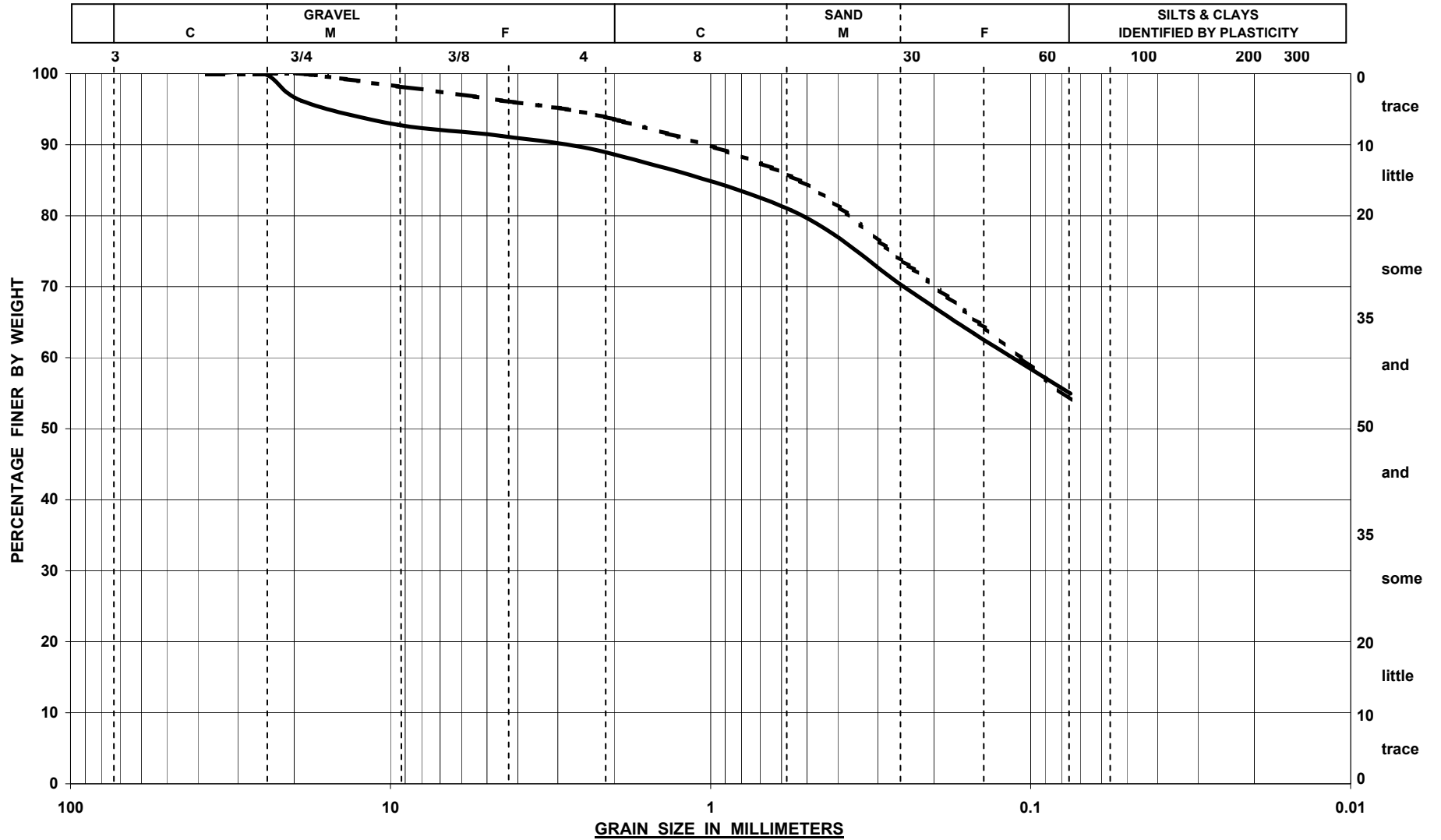
Final Test Reading

Start @ 1535, 15" from top of pipe
Finish @ 1605, 28" drop from top of pipe
13" drop H₂O in 30 minutes = 0.43 inches per minute

Percolation Hole P-4
(Elevation + 615)

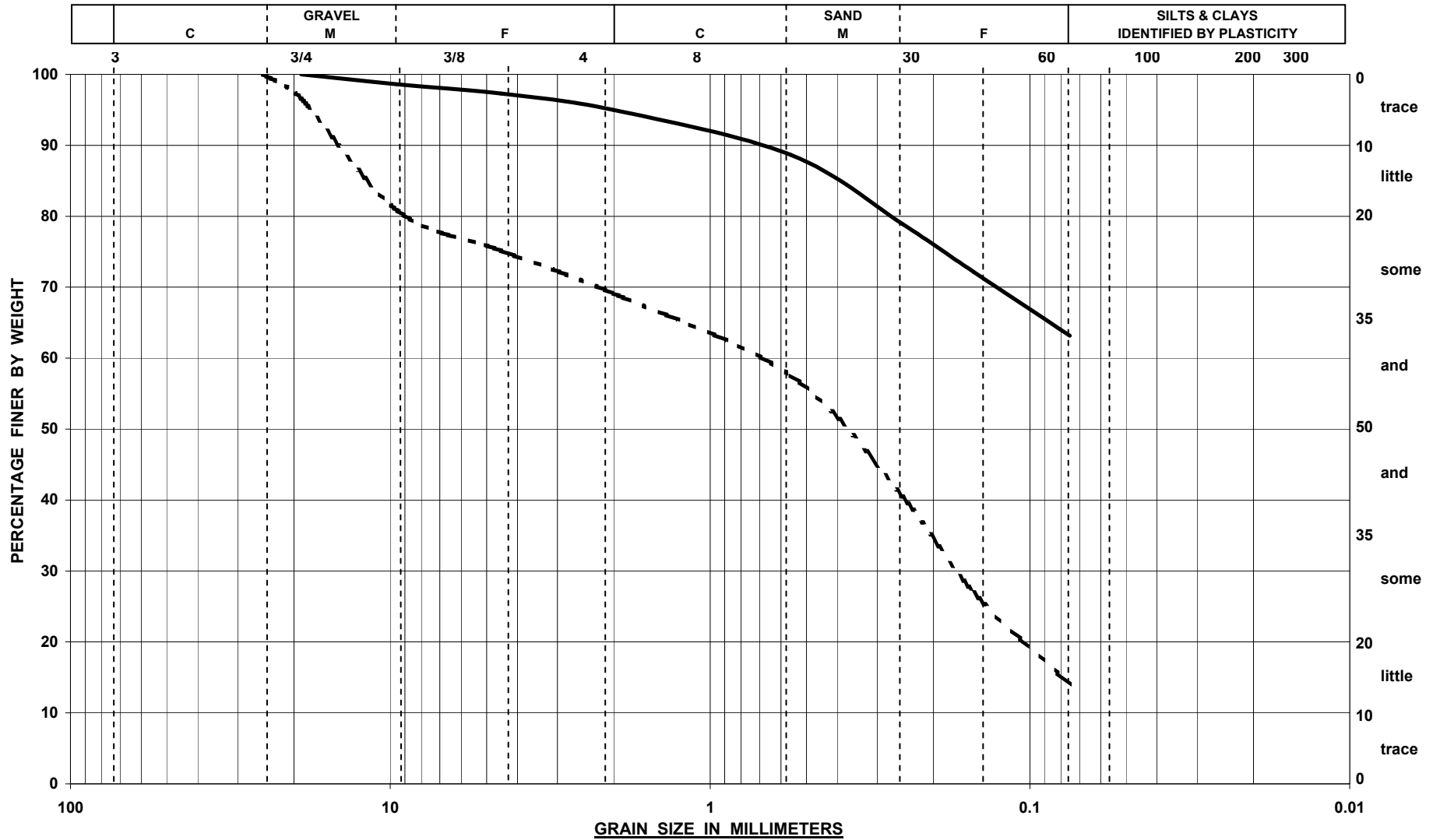
Test hole depth 24" from ground elevation
Groundwater @ 1'10" below surface
Percolation test unable to be performed

SIEVE ANALYSIS



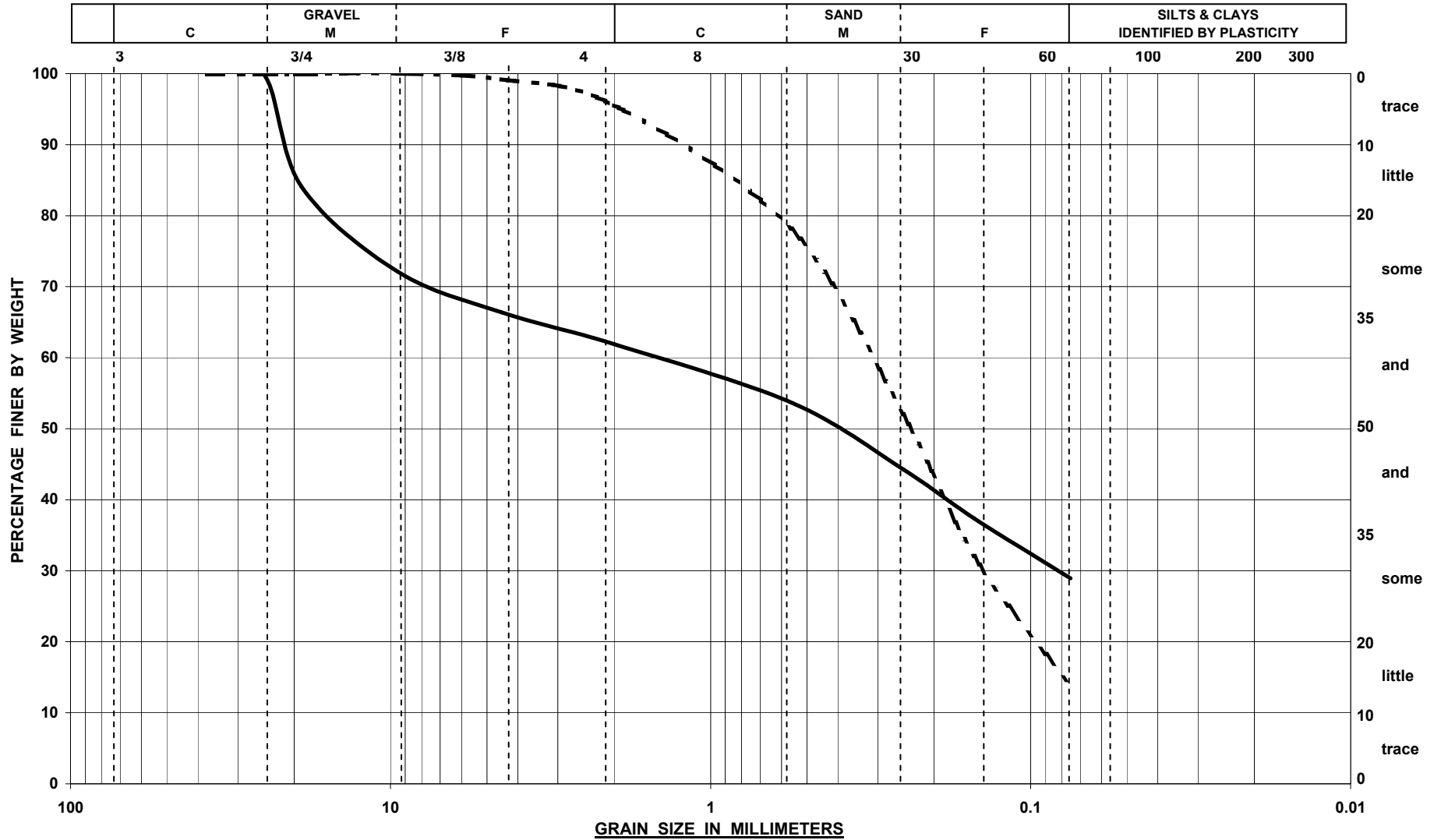
| SYMBOL | BORING | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|--------|--------|---------------|---|--------|
| — | B-1 | S-1 | 0' 0" - 2' 0" | Brown SILT and (+), coarse to fine Sand, little (-) medium to fine Gravel | 14.0% |
| - - | B-2 | S-2 | 2' 0" - 4' 0" | Brown SILT and (+), coarse to fine Sand, trace medium to fine Gravel | 14.2% |

SIEVE ANALYSIS



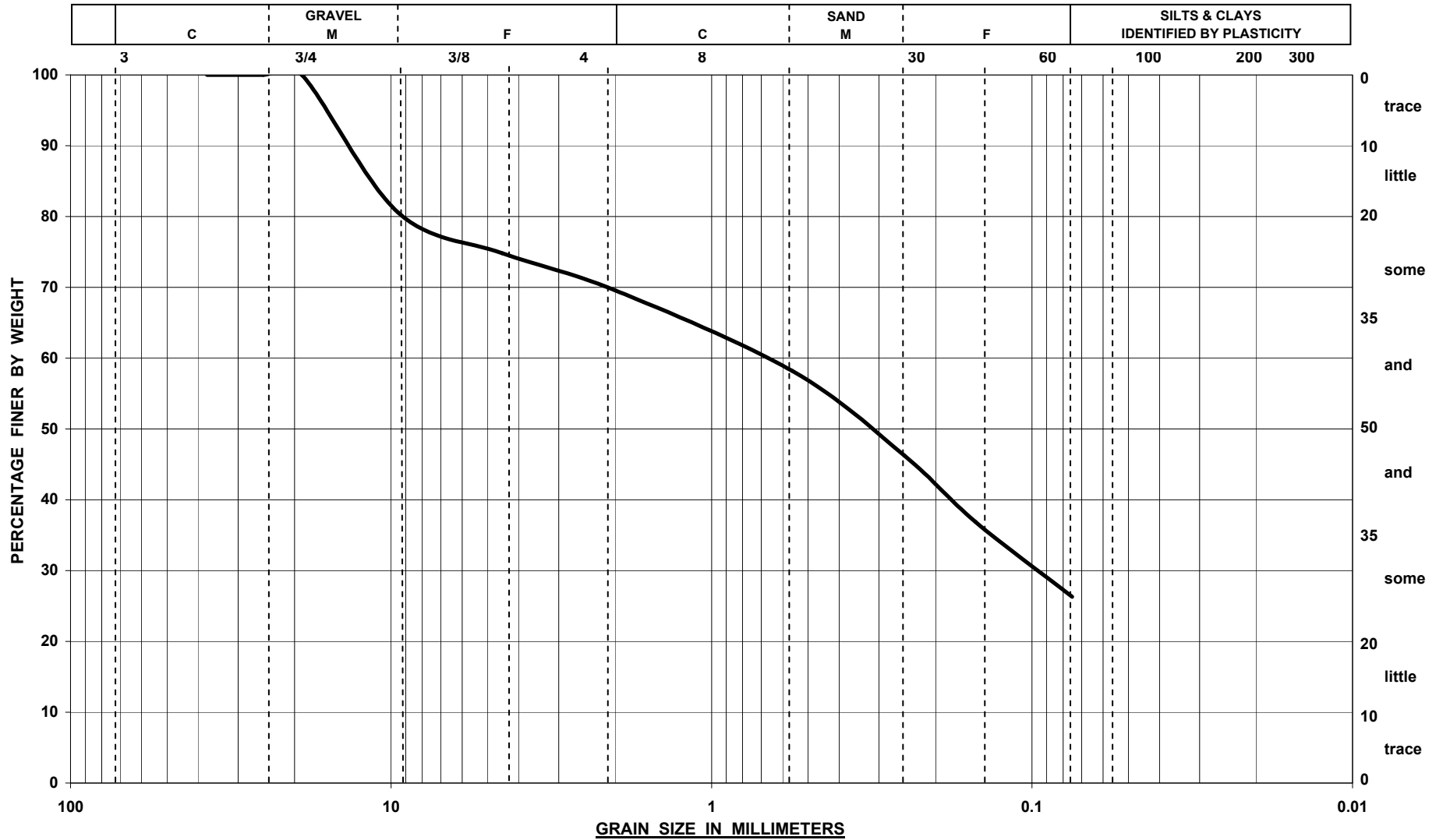
| SYMBOL | BORING | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|--------|--------|---------------|--|--------|
| — | B-3 | S-1 | 0' 0" - 2' 0" | Brown SILT and (-), coarse to fine Sand, trace medium to fine Gravel | 24.2% |
| - - | B-4 | S-3 | 5' 0" - 7' 0" | Brown coarse to fine SAND, little Silt, some (+) medium to fine Gravel | 12.1% |

SIEVE ANALYSIS



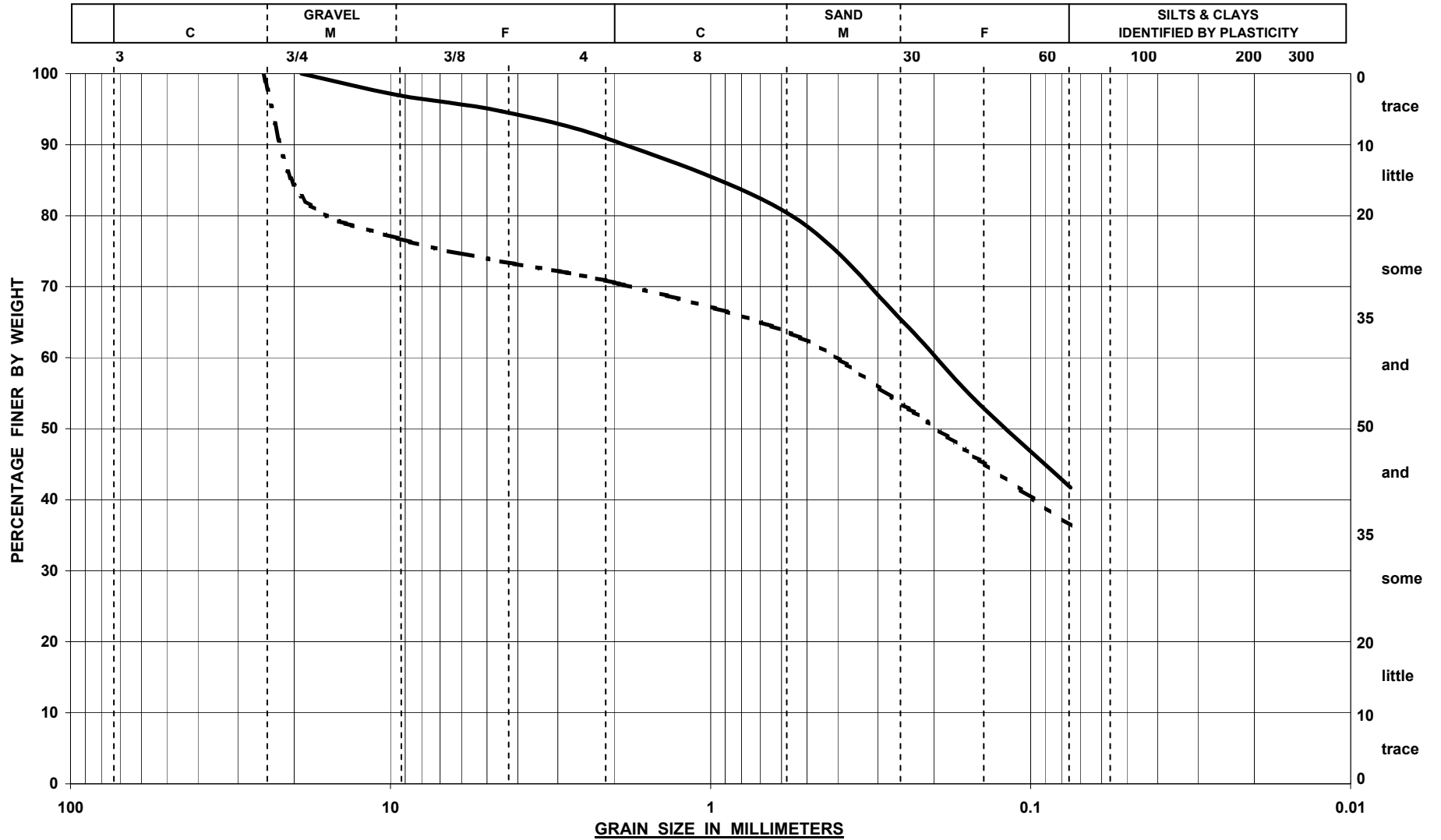
| SYMBOL | BORING | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|--------|--------|---------------|---|--------|
| — | B-6 | S-2 | 2' 0" - 4' 0" | Brown coarse to fine Sand, some Silt, and (-) coarse to fine Gravel | 9.9% |
| - - | B-7 | S-3 | 5' 0" - 7' 0" | Brown coarse to fine SAND, little Silt, trace fine Gravel | 8.7% |

SIEVE ANALYSIS



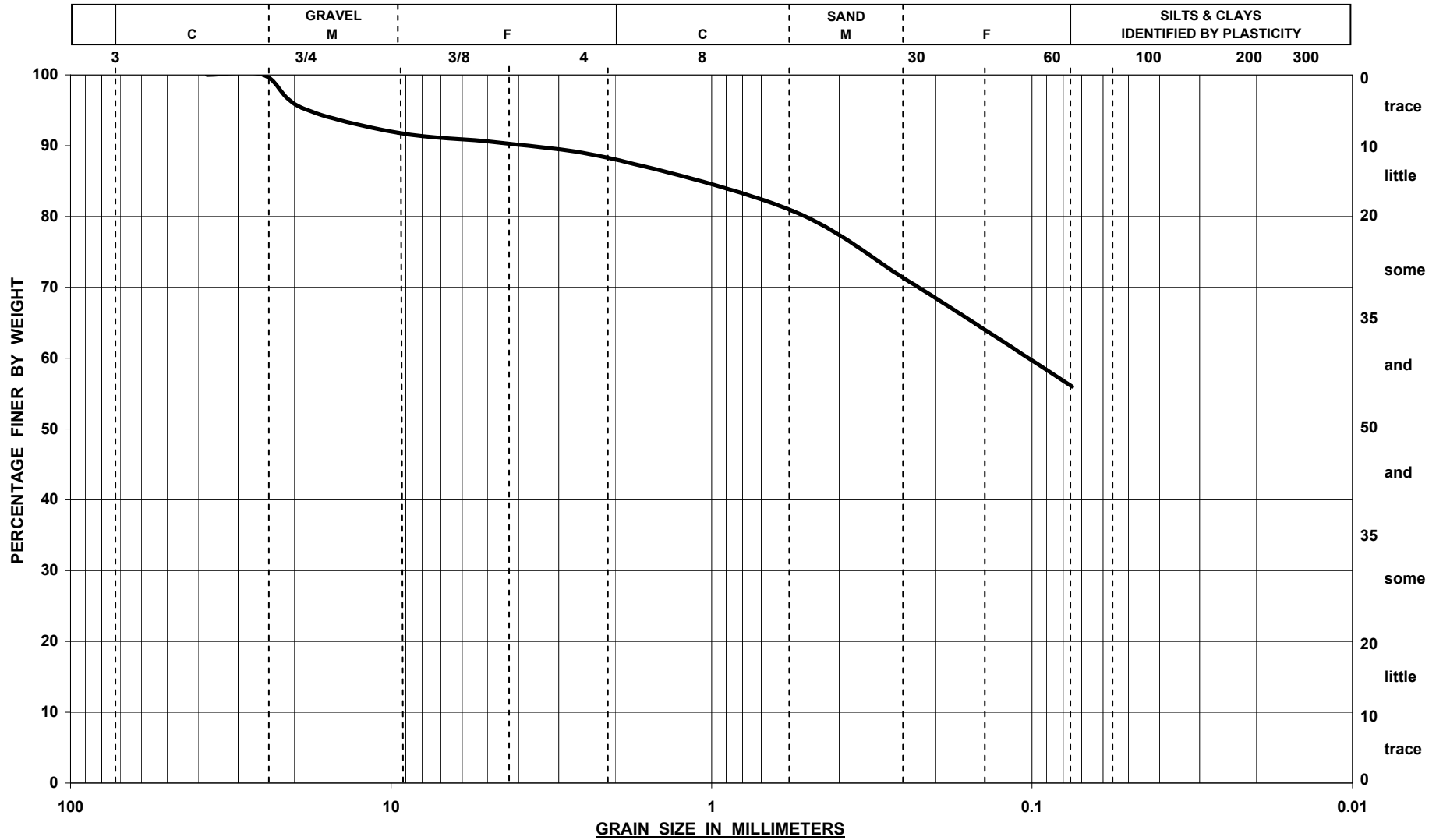
| SYMBOL | BORING | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|--------|--------|---------------|---|--------|
| — | B-9 | S-2 | 2' 0" - 4' 0" | FILL (brown coarse to fine Sand, some Silt, some (+) medium to fine Gravel) | 15.0% |
| | | | | | |

SIEVE ANALYSIS



| SYMBOL | Test Pit | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|----------|--------|-------|--|--------|
| — | TP-1 | S-1 | | Brown coarse to fine SAND, and Silt, trace (+) medium to fine Gravel | 18.2% |
| - - | TP-4 | S-1 | | Brown coarse to fine Sand, and (-) Silt, some coarse to fine Gravel | 14.0% |

SIEVE ANALYSIS



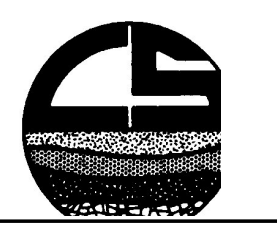
| SYMBOL | Test Pit | SAMPLE | DEPTH | DESCRIPTION | NAT MC |
|--------|----------|--------|----------------|---|--------|
| — | TP-18 | S-1 | 0' 10" - 7' 0" | Brown SILT and, coarse to fine Sand, little (-) medium to fine Gravel | 18.0% |
| | | | | | |



- GENERAL NOTES:**
1. GENERAL LAYOUT WAS OBTAINED FROM A DRAWING PREPARED BY JOHN MEYER CONSULTING, PC ENTITLED "TEST PIT PLAN, BRYNWOOD CLUB, BEDFORD ROAD (NY 22), TOWN OF NORTH CASTLE NEW YORK," DRAWING TP-1, DATED DECEMBER 17, 2012.
 2. BORING, TEST PIT, PERMEABILITY TEST, AND PERCOLATION TEST LOCATIONS WERE LAID OUT IN THE FIELD BY CARLIN-SIMPSON & ASSOCIATES (CSA).
 3. BORINGS (B-1 THROUGH B-11) WERE PERFORMED BY GENERAL BORINGS, INC. ON 18 & 19 DECEMBER 2012 UNDER THE FULL TIME INSPECTION OF CSA.
 4. THE BOREHOLE PERMEABILITY TEST (BP-4) WAS PERFORMED BY CSA ON 18 & 19 DECEMBER 2012.
 5. PERCOLATION TESTS (P-1, P-2, AND P-3) WERE PERFORMED BY CSA ON 3 JANUARY 2013.
 6. TEST PITS (TP-1 THROUGH TP-18) WERE PERFORMED BY TRAFICANTE CONTRACTING, INC ON 3 & 4 JANUARY 2013 UNDER THE FULL TIME INSPECTION OF CSA.
 7. TEST PITS (TP-19 THROUGH TP-28) WERE PERFORMED BY BRYNWOOD CLUB PERSONNEL IN SEPTEMBER 2013 UNDER THE FULL TIME INSPECTION OF CSA.
 8. LOCATIONS ARE APPROXIMATE.

- LEGEND:**
- ◆ - BORING LOCATION (DEC. 2012)
 - - TEST PIT LOCATION (JAN. 2013)
 - - TEST PIT LOCATION (SEPT. 2013)
 - ◆ - PERCOLATION TEST LOCATION (JAN. 2013)
 - ◆ - BOREHOLE PERMEABILITY TEST LOCATION (DEC. 2012)

| | |
|---|--|
| ROBERT B. SIMPSON, P.E. PROFESSIONAL ENGINEER | |
| LICENSE NO. _____ | SIGNATURE _____ |
| BORING & TEST PIT LOCATION PLAN | |
| BRYNWOOD CLUB DEVELOPMENT NORTH CASTLE, NEW YORK | |
| DRAWN MRA | SCALE 1" = 120' |
| CHECKED RBS | DATE 16 OCT 13 |
| PROJECT NO. 12-175 | DWG. NO. FIG -1 |
| APPROVED _____ | CARTLIN-SIMPSON AND ASSOCIATES 61 Main Street Sayreville, NJ 08872 Consulting Geotechnical and Environmental Engineers |



APPENDIX D

***TEMPORARY & PERMANENT EROSION
AND SEDIMENT CONTROL INSPECTION
AND MAINTENANCE CHECKLIST***

Temporary Erosion and Sediment Control Inspection and Maintenance Checklist

| Erosion and Sediment Control Measure | Inspection/Maintenance Intervals | Inspection/Maintenance Requirements |
|---|---|--|
| Stabilized Construction Entrance | Daily | <ul style="list-style-type: none"> • Periodic top dressing with additional aggregate as required • Clean sediment in public right-of-ways immediately |
| Silt Fence | Weekly + After Each Rain | <ul style="list-style-type: none"> • Remove & redistribute sediment when bulges develop in the silt fence. |
| Inlet Protection | Weekly + After Each Rain | <ul style="list-style-type: none"> • Remove sediment as necessary and replace filter fabric, crushed stone etc. • Any broken and damaged components should be replaced. • Check all materials for proper anchorage and secure as necessary. |
| Concrete Washout | Daily | <ul style="list-style-type: none"> • Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. |
| | After Each Rain | <ul style="list-style-type: none"> • Pump excess rainwater that has accumulated over hardened concrete to a stabilized area. |
| | | <ul style="list-style-type: none"> • Remove accumulated hardened material when 75% of the storage capacity of the structure is filled. Replace plastic liner with each cleaning of the washout facility. |

Temporary Erosion and Sediment Control Inspection and Maintenance Checklist
(Cont'd)

| Erosion and Sediment Control Measure | Inspection/Maintenance Intervals | Inspection/Maintenance Requirements |
|---|---|---|
| Level Spreader | Weekly + After Each Rain | <ul style="list-style-type: none"> • Remove sediment accumulated as needed to ensure the level spreader operates properly and large flows are prevented from carrying sediment over the level lip. • Check for rilling within/around the level spreader and repair as required. |
| Temporary Sediment Basin | Weekly + After Each Rain | <ul style="list-style-type: none"> • Remove and redistribute sediment when it reaches an elevation indicated on the construction documents. • Check for rilling within and around the sediment basin and repair as required. • Remove all sediment and debris from the outlet control structure as maybe required. |

Permanent Stormwater Management Practice Inspection and Maintenance Checklist

| Stormwater Management Practice | Inspection/Maintenance Intervals | Inspection/Maintenance Requirements |
|--|---|--|
| Rip-Rap Apron/Energy Dissipator and Check Dams | Annually + After Major Storms | <ul style="list-style-type: none"> • Check for evidence of flows going around the structure. • Check for evidence at downstream toe and repair as needed. • Clean sediment and install additional aggregate as necessary. |
| Stormwater Management Basin | Monthly | <ul style="list-style-type: none"> • Check Permanent Pool for undesirable vegetative growth and floatings or floatable debris. Remove as needed. • Check Forebays for sediment and cleanout when it depth <50% design depth. • Check Dry Pond areas for adequate vegetation, undesirable vegetative growth, low flow channels are clear of obstructions, standing water or wet spots and sediment and/or trash accumulation. Repair/remove as necessary. |

Permanent Stormwater Management Practice Inspection and Maintenance Checklist (Cont'd)

| Stormwater Management Practice | Inspection/Maintenance Intervals | Inspection/Maintenance Requirements |
|---------------------------------------|---|---|
| Stormwater Management Basin | Annually + After Major Storms | <ul style="list-style-type: none"> • Check adequacy of vegetation and ground cover; for evidence of embankment erosion, animal burrows, unauthorized plantings and cracking, bulging or sliding of dam, clear/properly functioning drains, seeps/leaks on downstream face, failure of slope protection or riprap. Repair/remove as necessary. • Confirm emergency spillway is clear of obstructions and debris. • Confirm all inlets and outlet structures/pipes are operating properly. |
| Drain Inlets | Monthly | <ul style="list-style-type: none"> • Check for blockage and/or erosion at top of each inlet. Repair/remove as necessary. • Check for sediment and debris collected within sumps and clean out as necessary. |

Permanent Stormwater Management Practice Inspection and Maintenance Checklist (Cont'd)

| Stormwater Management Practice | Inspection/Maintenance Intervals | Inspection/Maintenance Requirements |
|---------------------------------------|--|---|
| Porous Pavement and Permeable Pavers | Monthly and As Needed | <ul style="list-style-type: none"> • Ensure that paving area is clean of debris • Ensure that paving dewaterers between storms • Ensure that the area is clean of sediments • Mow upland and adjacent areas, and seed bare areas |
| | Quarterly | <ul style="list-style-type: none"> • Vacuum sweep frequently to keep surface free of sediments |
| | Annually | <ul style="list-style-type: none"> • Inspect the surface for deterioration or spalling |
| Hydrodynamic Water Quality Structure | (See Maintenance Guidelines in Appendix D) | <ul style="list-style-type: none"> • Open access cover for visual inspection and measure the distance from the standing water surface to the sediment pile with a measuring stick or tape. If less than 4 feet, insert hose from vacuum truck into the sump and screen through both access covers to clean out the standing water, layer of oil, sediment, trash, etc. • The screen must be powerwashed to ensure it is free of trash and debris. |

The owner/operator responsible for inspection and maintenance as outlined above:

Summit Club Partners, LLC

Mr. Jeff Mendell

10 Glenville Street, 1st Floor

Greenwich, CT 06831

Phone: 203-813-3264

Fax:

Email: jbmendell@greenwichdp.com

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Cascade Separator[®] Inspection and Maintenance Guide



Maintenance

The Cascade Separator® system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects sediment and debris will depend upon on-site activities and site pollutant characteristics. For example, unstable soils or heavy winter sanding will cause the sediment storage sump to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (i.e. spring and fall). However, more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment wash-down areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

A visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet chamber, flumes or outlet channel. The inspection should also quantify the accumulation of hydrocarbons, trash and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided in this Inspection and Maintenance Guide.

Access to the Cascade Separator unit is typically achieved through one manhole access cover. The opening allows for inspection and cleanout of the center chamber (cylinder) and sediment storage sump, as well as inspection of the inlet chamber and slanted skirt. For large units, multiple manhole covers allow access to the chambers and sump.

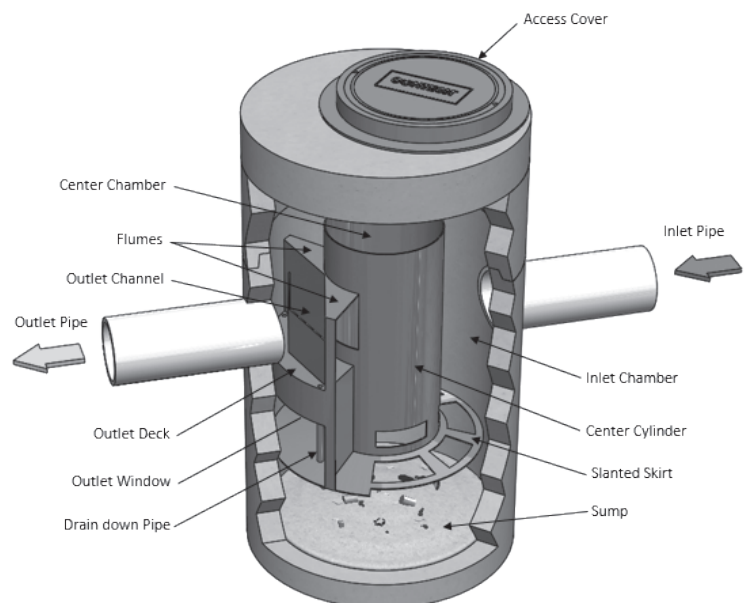
The Cascade Separator system should be cleaned before the level of sediment in the sump reaches the maximum sediment depth and/or when an appreciable level of hydrocarbons and trash has accumulated. If sorbent material is used, it must be replaced when significant discoloration has occurred. Performance may be impacted when maximum sediment storage capacity is exceeded. Contech recommends maintaining the system when sediment level reaches 50% of maximum storage volume. The level of sediment is easily determined by measuring the distance from the system outlet invert (standing water level) to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the chart in this document to determine if the height of the sediment pile off the bottom of the sump floor exceeds 50% of the maximum sediment storage.

Cleaning

Cleaning of a Cascade Separator system should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole cover and insert the vacuum tube down through the center chamber and into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The areas outside the center chamber and the slanted skirt should also be washed off if pollutant build-up exists in these areas.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. Then the system should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and to ensure proper safety precautions. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the Cascade Separator system must be done in accordance with local regulations. In many locations, disposal of evacuated sediments may be handled in the same manner as disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal. If any components are damaged, replacement parts can be ordered from the manufacturer.



Cascade Separator® Maintenance Indicators and Sediment Storage Capacities

| Model Number | Diameter | | Distance from Water Surface to Top of Sediment Pile | | Sediment Storage Capacity | |
|--------------|----------|-----|---|-----|---------------------------|----------------|
| | ft | m | ft | m | y ³ | m ³ |
| CS-3 | 3 | 0.9 | 1.5 | 0.5 | 0.4 | 0.3 |
| CS-4 | 4 | 1.2 | 1.5 | 0.5 | 0.7 | 0.5 |
| CS-5 | 5 | 1.3 | 1.5 | 0.5 | 1.1 | 0.8 |
| CS-6 | 6 | 1.8 | 1.5 | 0.5 | 1.6 | 1.2 |
| CS-8 | 8 | 2.4 | 1.5 | 0.5 | 2.8 | 2.1 |
| CS-10 | 10 | 3.0 | 1.5 | 0.5 | 4.4 | 3.3 |
| CS-12 | 12 | 3.6 | 1.5 | 0.5 | 6.3 | 4.8 |

Note: The information in the chart is for standard units. Units may have been designed with non-standard sediment storage depth.



A Cascade Separator unit can be easily cleaned in less than 30 minutes.



A vacuum truck excavates pollutants from the systems.

Cascade Separator® Inspection & Maintenance Log

| Cascade Model: | | Location: | | | |
|----------------|--|--|--------------------------------|-----------------------|----------|
| Date | Depth Below Invert to Top of Sediment ¹ | Floatable Layer Thickness ² | Describe Maintenance Performed | Maintenance Personnel | Comments |
| | | | | | |
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1. The depth to sediment is determined by taking a measurement from the manhole outlet invert (standing water level) to the top of the sediment pile. Once this measurement is recorded, it should be compared to the chart in the maintenance guide to determine if the height of the sediment pile off the bottom of the sump floor exceeds 50% of the maximum sediment storage. Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.
2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

SUPPORT

- Drawings and specifications are available at www.ContechES.com.
- Site-specific design support is available from our engineers.

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APPENDIX E

CONTRACTOR'S CERTIFICATION



Site Planning
 Civil Engineering
 Landscape Architecture
 Land Surveying
 Transportation Engineering

Environmental Studies
 Entitlements
 Construction Services
 3D Visualization
 Laser Scanning

JMC Project 20101
 The Summit Club at Armonk
 568 & 570 Bedford Road (NY-22)
 Armonk, NY

CONTRACTOR'S CERTIFICATION

“I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations”

Company Name: _____

Address: _____

Telephone Number: _____

Name and Title: _____

Signature: _____ Date: _____

Permit Identification No.: _____

Name and Title of Trained Contractor: _____

Elements of the SWPPP Contractor is responsible for: _____

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APPENDIX F

***TEMPORARY SEDIMENT BASIN
DESIGN DATA SHEETS***

TEMPORARY SEDIMENT BASIN DESIGN DATA SHEET

Computed by MT Date 6/8/21 Checked by _____ Date 06/08/21
Project Summit Club at Armonk Basin # _____
Location _____ Total Area draining to basin (≤ 50 Ac.) 13.56 Acres

BASIN SIZE DESIGN

- Sediment storage zone volume = 1,000 cu. ft. x number of disturbed acres = 13,560 cu. ft., Top of Zone Elev. 622
- Dewatering zone volume = 3,600 cu. ft. x number of drainage area acres = 48,816 cu. ft., Top of Zone Elev. 625
- Length to width ratio = 3.5:1
- A. Cleanout at 50% of sediment storage zone volume, Elev. 621.50
B. Distance below top of riser 0.5 feet
- Minimum surface area is larger of $0.01 Q_{(10)}$.369 or, $0.015 DA$ = 2.034 use .369 acres

DESIGN OF SPILLWAYS & ELEVATIONS

Runoff

- $Q_{p(10)}$ = 36.90 cfs (Attach runoff computation sheets)

Pipe Spillway (Q_{ps})

- Min. pipe spillway cap., $Q_{ps} = 0.2 \times$ 13.56 Drainage Area, acres = 2.71 cfs
Note: If there is no emergency spillway, then required $Q_{ps} = Q_{p(10)} =$ _____ cfs.
- H, head = 3 ft. Barrel length = 32 ft
- Barrel: Diam. 24 inches; $Q_{ps} = (Q)$ 2.71 x (cor.fac.) 27.5 = 74.5 cfs.
- Riser: Diam. 42 inches; Length 1 ft.; h = 1 ft. Crest Elev. 622
- Trash Rack: Diameter = 60 inches; H, height = 19 inches

Emergency Spillway Design

- Emergency Spillway Flow, $Q_{es} = Q_p - Q_{ps} =$ 36.90 - 74.5 = 0 cfs.
- Width _____ ft.; H_p _____ ft. Crest elevation _____; Design High Water Elev. _____
Entrance channel slope _____ %; Top of Dam Elev. _____
Exit channel slope _____ %

ANTI-SEEP COLLAR/SEEPAGE DIAPHRAGM DESIGN

Collars:

- $y =$ 1 ft.; $z =$ 3 :1; pipe slope = 1 %, $L_s =$ 7.29 ft.
Use 1 collars, 2 - 2 inches square; projection = 0.5 ft.

Diaphragms:

_____ width _____ ft. height _____ ft.

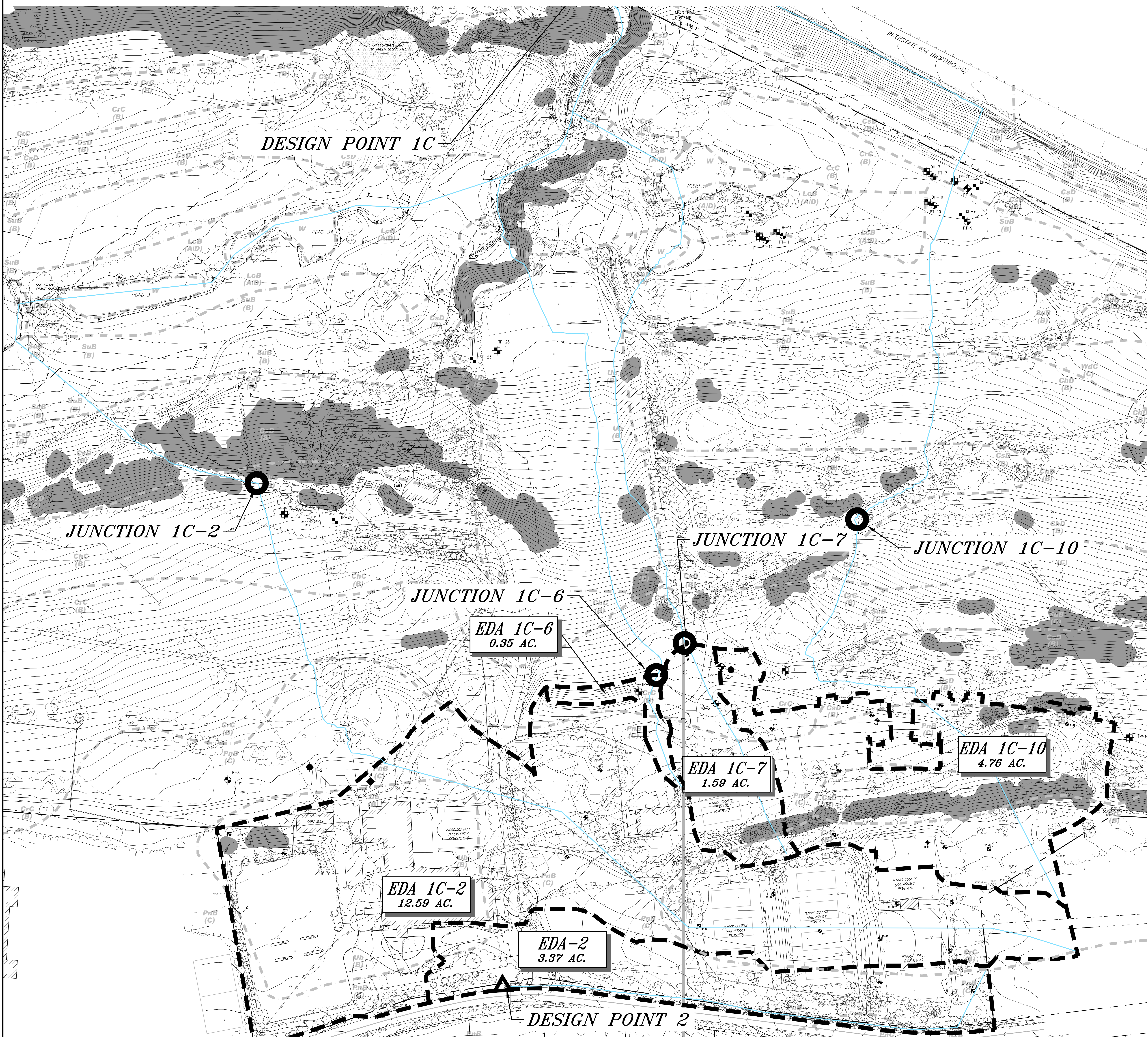
DEWATERING ORIFICE SIZING

(Determined from the Dewatering Device Standard)

- Dewatering orifice diameter = 5 inches. Skimmer _____ or Riser x (check one)
- Design dewatering time 2 days (Min. 2 days required)

APPENDIX G

DRAWINGS



EXISTING DRAINAGE LEGEND

- EXISTING GRADE
- FLAGGED WETLANDS WITH FLAG NUMBERS
- EXISTING STONE WALL
- WATERSHED BOUNDARY LINE
- BOUNDARY OF COVER TYPE LINE
- FLOW PATH LINE
- SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP

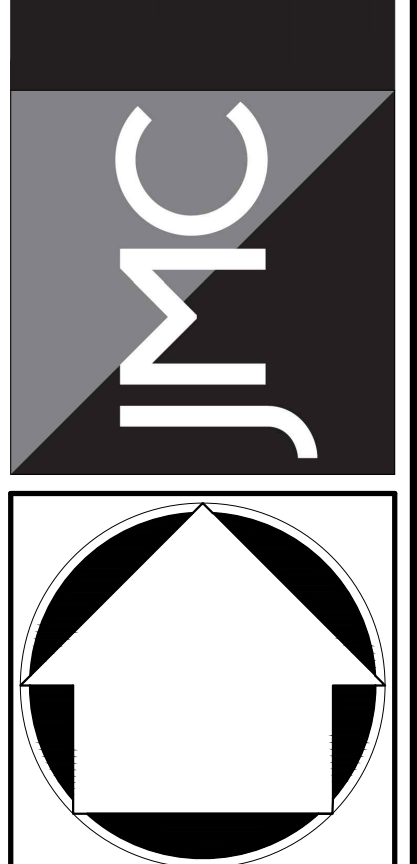
SOIL TYPE TABLE

| DESIGNATION | HYDROLOGIC GROUP | DESCRIPTION |
|-------------|------------------|---|
| Ub | B | UDORTHENTS, SMOOTHED |
| PnB | C | PAXTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES |
| CrC | B | CHARLTON-CHATFIELD COMPLEX, 0 TO 15 PERCENT SLOPES, VERY ROCKY |
| PnC | C | PAXTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES |
| CsD | B | CHARLTON-CHATFIELD COMPLEX, 15 TO 35 PERCENT SLOPES, VERY ROCKY |

| No. | Revision | Date | By | NC | AG |
|-----|---------------------------|------------|----|----|----|
| 1 | RESPONSE TO TOWN COMMENTS | 06/14/2021 | AG | | |
| 2 | RESPONSE TO TOWN COMMENTS | 07/10/2022 | NC | | |

SUMMIT CLUB PARTNERS, LLC
 568 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504
 GRANOFF ARCHITECTS
 330 RAILROAD AVENUE
 GREENWICH, CT 06850

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 JMC Site Development Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEDFORD ROAD - ARMONK, NY 10504
 PH: 914.233.2222 - FAX: 914.233.2102
 www.jmcplc.com

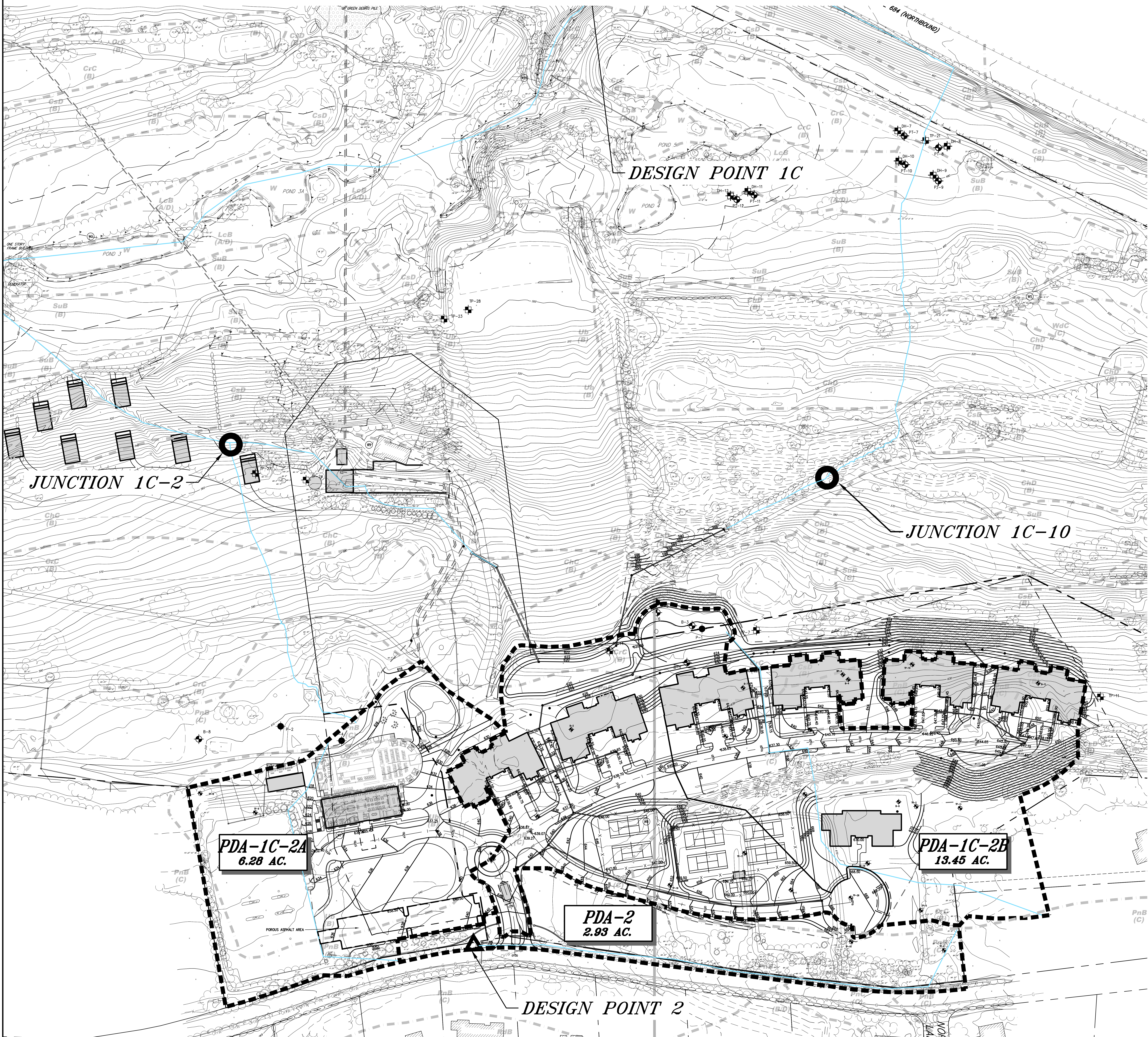


EXISTING DRAINAGE AREA MAP
 THE SUMMIT CLUB AT ARMONK
 (RESIDENTIAL PHASE)
 568 & 570 BEDFORD ROAD (NY-22)
 ARMONK, NY 10504

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| | | | |
|--------------|------------|----------|----|
| Drawn | NC | Approved | AG |
| Scale: | 1" = 60' | | |
| Date: | 06/14/2021 | | |
| Project No.: | 20101 | | |
| 2010-0000 | EDA | | |
| Drawing No.: | DA-1 | | |

NOT FOR CONSTRUCTION



PROPOSED DRAINAGE LEGEND

- EXISTING GRADE
- PROPOSED FINISHED GRADE
- FLAGGED WETLANDS WITH FLAG NUMBERS
- EXISTING STONE WALL
- WATERSHED BOUNDARY LINE
- LIMIT OF SOIL GROUPS LINE
- FLOW PATH LINE
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED MANHOLE (MH)
- EXISTING DRAIN INLET
- PROPOSED DRAIN INLET (DI)
- PROPOSED END SECTION (ES)
- RIP RAP ENERGY DISSIPATOR
- SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP

SOIL TYPE TABLE

| DESIGNATION | HYDROLOGIC GROUP | DESCRIPTION |
|-------------|------------------|---|
| Ub | B | UDORTENTS, SMOOTHED |
| PnB | C | PAXTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES |
| OC | B | CHARLTON-CHATFIELD COMPLEX, 0 TO 15 PERCENT SLOPES, VERY ROCKY |
| PnC | C | PAXTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES |
| CnD | B | CHARLTON-CHATFIELD COMPLEX, 15 TO 35 PERCENT SLOPES, VERY ROCKY |

PROPOSED DRAINAGE AREA MAP

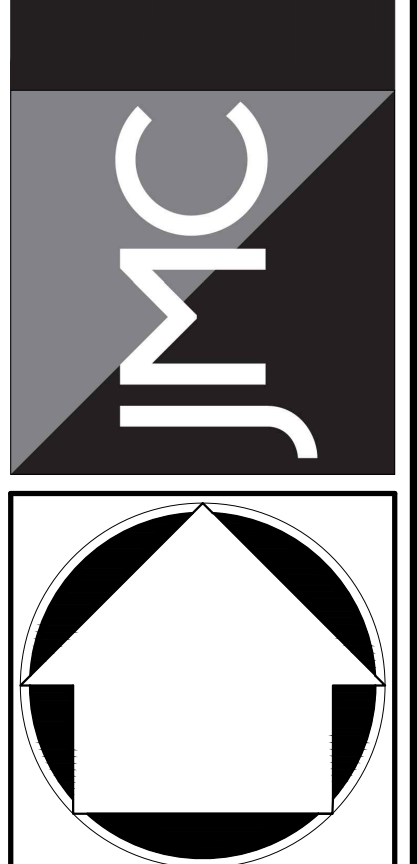
THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
568 & 570 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

SUMMIT CLUB PARTNERS, LLC
568 BEDFORD ROAD (NY-22)
ARMONK, NY 10504

GRANOFF ARCHITECTS
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GREENWICH, CT 06850

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
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John Meyer Consulting, Inc.

120 BEDFORD ROAD - ARMONK, NY 10554
PHONE: 914.233.2222 - FAX: 914.233.2192
www.jmcpic.com



PROPOSED DRAINAGE AREA MAP

THE SUMMIT CLUB AT ARMONK (RESIDENTIAL PHASE)
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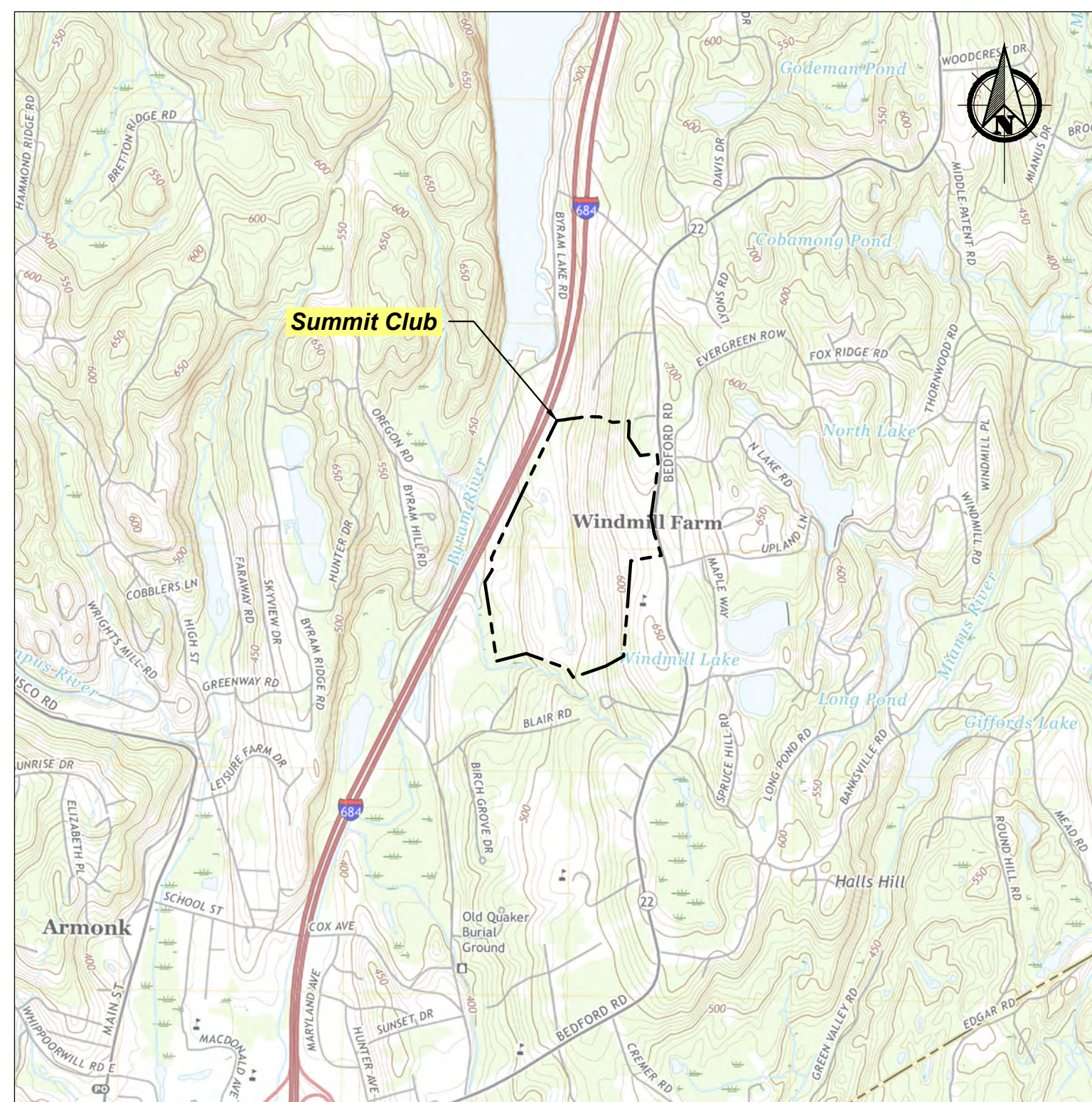
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Scale: 1" = 60'
Date: 06/14/2021
Project No: 20101
2010-00000 PDA
Drawing No: DA-2

NOT FOR CONSTRUCTION

Summit Club Residential

568 Bedford Road (Route 22)
Town of North Castle, New York

Water Supply, Treatment and Distribution North Castle, New York 50% Submittal November 2021



SITE LOCATION MAP
SCALE: 1" = 2000'

INDEX OF DRAWINGS

| DRAWING NO. | DRAWING TITLE |
|-------------|---|
| TS | TITLE SHEET |
| 1 | SITE PLAN |
| 1A | PARTIAL SITE PLAN |
| 2 | PROJECT NOTES, EQUIPMENT LIST, PROCESS FLOW DIAGRAM AND WELL PROFILE |
| 3 | PROPOSED TREATMENT BUILDING DETAILS |
| 4 | WELL SETTINGS AND PIPING DETAILS |
| 5 | PIPING DETAILS |
| 6 | 205,000-GALLON ABOVE GRADE POTABLE WATER ATMOSPHERIC STORAGE TANK DETAILS |
| 7 | DISTRIBUTION SYSTEM PLAN AND PROFILE |
| 8 | DISTRIBUTION SYSTEM PLAN AND PROFILE |



VICINITY MAP
SCALE: 1" = 1000'

WSP USA

4 RESEARCH DRIVE, SUITE 204
SHELTON, CONNECTICUT 06484

REVISIONS

| REV | DESCRIPTION |
|-----|-------------|
| 1 | CHG |
| 2 | CHG |
| 3 | CHG |

SEAL

| DRAWN BY | RAC |
|--------------|----------|
| CHECKED | MS |
| APPROVED | SR |
| DRAWING DATE | 11/23/21 |

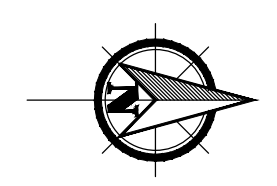
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TITLE SHEET

Summit Club Residential
568 Bedford Road (Route 22)
Town of North Castle, New York





- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING FLAGGED WETLAND BOUNDARY
 - EXISTING WETLAND BUFFER
 - EXISTING CONTOUR
 - EXISTING WELL
 - EXISTING ELECTRICAL LINE
 - EXISTING GAS LINE
 - EXISTING STORMWATER PIPE
 - EXISTING SANITARY SEWER MAIN
 - PROPOSED STORMWATER PIPE
 - PROPOSED SANITARY SEWER MAIN
 - PROPOSED 8-INCH DIA. DUCTILE IRON WATER MAIN
 - PROPOSED 3/4-INCH DIA. DUCTILE IRON SERVICE CONNECTION
 - PROPOSED 2-INCH DIA. DUCTILE IRON SERVICE CONNECTION
 - PROPOSED 3-INCH DIA. HDPE RAW WATER PIPE - WELL #3
 - PROPOSED 4-INCH DIA. HDPE RAW WATER PIPE - WELL #1 & WELL #6A
 - PROPOSED FIRE HYDRANT



| REVISIONS | |
|-----------|----------------------|
| REV | DESCRIPTION |
| 1 | ISSUED FOR PERMIT |
| 2 | REVISED PER COMMENTS |
| 3 | REVISED PER COMMENTS |

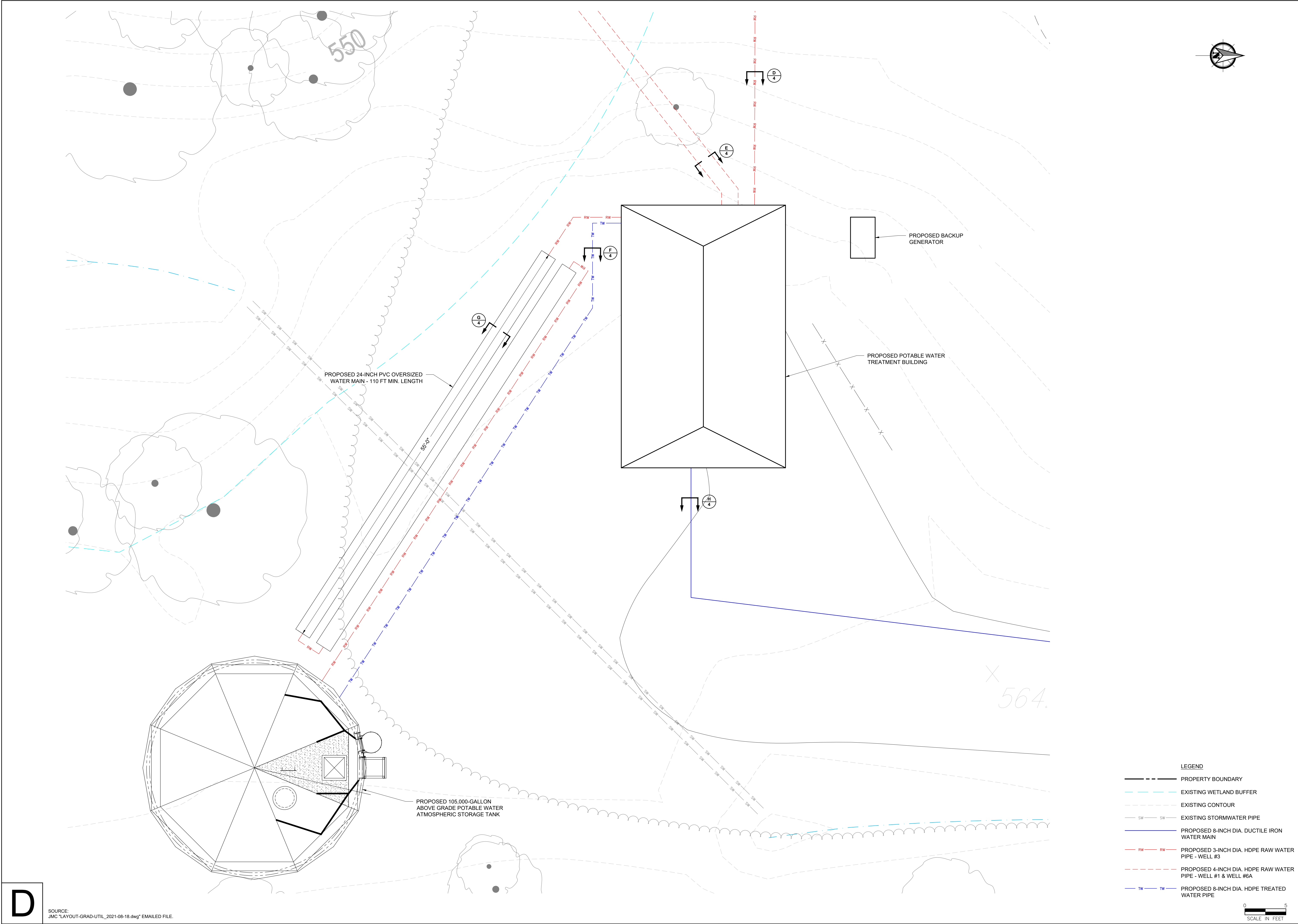
| DRAWN BY | RAC | CHECKED | MS | APPROVED | SR | DRAWING DATE | DATE |
|----------|-----|---------|----|----------|----|--------------|------|
| | | | | | | 11/23/21 | |

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SITE PLAN

Summit Club Residential
 568 Bedford Road (Route 22)
 Town of North Castle, New York





| REV | DESCRIPTION |
|-----|-------------|
| 1 | CHG |
| 2 | CHG |
| 3 | CHG |

SEAL

DATE

DRAWN BY: RAC
 CHECKED: MS
 APPROVED: SR
 DRAWING DATE: 11/23/21

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PARTIAL SITE PLAN

Summit Club Residential
 568 Bedford Road (Route 22)
 Town of North Castle, New York



WSP USA
 4 Research Drive, Suite 204
 Shelton, Connecticut 06484
 (203) 929-8555

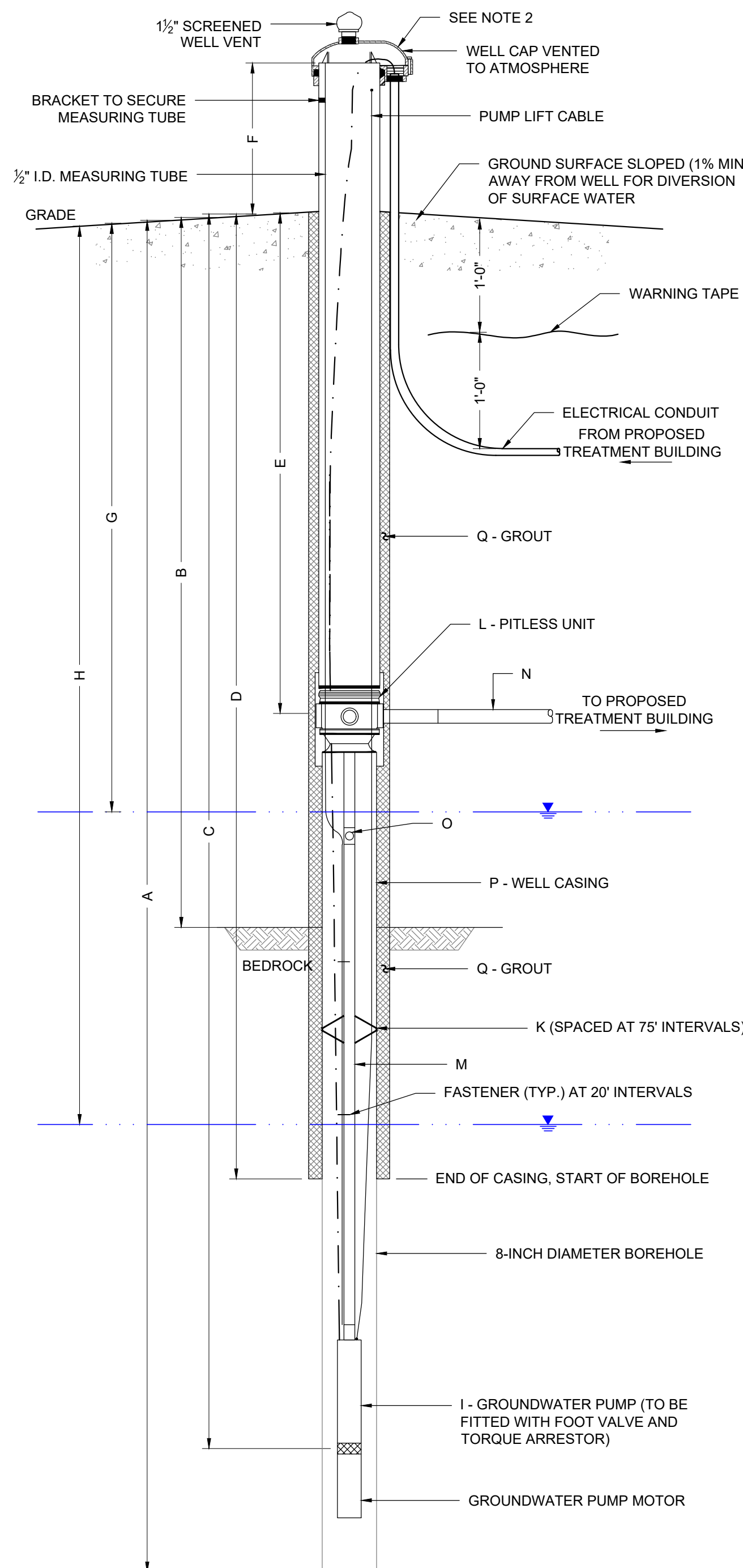
3 of 10
 Drawing Number
 1A

- LEGEND**
- PROPERTY BOUNDARY
 - - - - - EXISTING WETLAND BUFFER
 - - - - - EXISTING CONTOUR
 - SW SW EXISTING STORMWATER PIPE
 - PROPOSED 8-INCH DIA. DUCTILE IRON WATER MAIN
 - RW — PROPOSED 3-INCH DIA. HDPE RAW WATER PIPE - WELL #3
 - PROPOSED 4-INCH DIA. HDPE RAW WATER PIPE - WELL #1 & WELL #6A
 - TW — PROPOSED 8-INCH DIA. HDPE TREATED WATER PIPE



PROJECT NOTES

- A. MOBILIZATION SHALL CONSIST OF: 1) DELIVERY TO THE SITE OF ALL EQUIPMENT, MATERIALS AND SUPPLIES TO BE FURNISHED BY THE CONTRACTOR; 2) COMPLETE PREPARATION IN SATISFACTORY WORKING ORDER OF ALL EQUIPMENT FOR THE JOB; AND 3) THE SATISFACTORY AND SECURE STORAGE OF ALL MATERIALS AND SUPPLIES. AREAS FOR STAGING EQUIPMENT AND MATERIALS WILL BE DESIGNATED BY THE ENGINEER TO CAUSE THE LEAST INTERFERENCE TO SITE ACTIVITIES.
- B. DEMOBILIZATION SHALL CONSIST OF REMOVAL FROM THE SITE OF ALL EQUIPMENT, TRASH AND DEBRIS AFTER COMPLETION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE AREA TO THE CONDITION THAT EXISTED PRIOR TO THE WORK, INCLUDING REPLACEMENT OR REPAIR OF ANY SITE FEATURES THAT WERE AFFECTED (I.E., FENCES, WALLS, PAVEMENT), AS WELL AS THE GRADING, RAKING AND SEEDING OF DISTURBED LAWN AREAS.
- C. ALL SITE WORK IS TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY STANDARDS, AS WELL AS THE SAFETY PROCEDURES LISTED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION", ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA (AGC PUBLICATION NO. 100). THE CONTRACTOR SHALL BEAR THE COST OF PROVIDING WARNING DEVICES, FENCES, TRAFFIC CONTROL MEASURES AND OTHER SAFETY MEASURES, AS NEEDED, FOR THE WORK TO BE COMPLETED. SAFETY MEASURES WILL BE REQUIRED WHEN WORKING ALONG OR IN STATE OR LOCAL ROADS. ALL EXCAVATIONS WILL BE COVERED AND EQUIPMENT AND MATERIALS SECURED AT THE END OF EACH WORK DAY.
- D. ALL ELECTRICAL, MECHANICAL, PLUMBING, CONSTRUCTION AND OTHER SITE WORK, EQUIPMENT AND MATERIALS ARE TO BE IN ACCORDANCE WITH AND TO MEET ALL APPLICABLE LAWS, CODES AND REGULATIONS.
- E. ALL NEW, CLEANED OR REPAIRED POTABLE WATER PIPES SHALL BE DISINFECTED UNDER THE SUPERVISION OF THE ENGINEER IN ACCORDANCE WITH AWWA STANDARD C651-14 OR LATEST VERSION, EXCEPT SECTION 4.3 (THE TABLET METHOD) PRIOR TO USE.
- F. ALL INTERIOR PIPES SHALL BE INSTALLED PLUMB AND PERPENDICULAR AND IN A NEAT FASHION. THE PIPES WILL BE INSTALLED WITH ADEQUATE SPACING BETWEEN WALLS AND OTHER PIPES TO ALLOW FOR THE INSTALLATION OF VALVES AND METERS. ALL PIPES AND FITTINGS WILL BE SUPPORTED EVERY 5-FEET IN A MANNER THAT PREVENTS SAGGING WHEN THE PIPES ARE FULL. ALL PIPE SUPPORTS WILL BE SECURED TO EITHER THE FLOOR, WALL OR CEILING OF THE PROPOSED PUMP HOUSE.
- G. THE RAW WATER PIPES WILL BE COLOR-CODED OLIVE GREEN. THE TREATED WATER PIPES WILL BE COLOR-CODED DARK BLUE AND THE SODIUM HYPOCHLORITE LINES COLORED YELLOW.
- H. PRIOR TO ANY SUBSURFACE WORK, THE UNDERGROUND UTILITIES CALL CENTER SHALL BE CONTACTED.
- I. THE MATERIAL USED AS BACKFILL SHALL BE FREE OF ROCKS, STUMPS OR OTHER UNSUITABLE DEBRIS LARGER THAN 2-INCHES IN DIAMETER AND SHALL BE CAPABLE OF BEING COMPACTED TO 95% PROCTOR DENSITY. CLEAN TRACEABLE FILL MEETING THE ABOVE REQUIREMENT SHALL BE BROUGHT ONSITE AND USED AS BACKFILL IF THE MATERIAL REMOVED FROM THE TRENCHES IS UNSUITABLE. THE SOURCE OF FILL MUST BE PROVIDED IN ADVANCE OF DELIVERY TO THE SITE. THE ENGINEER RESERVES THE RIGHT TO REQUEST DOCUMENTATION OF FILL QUALITY AND TESTING DONE AT THE CONTRACTORS EXPENSE IF THE SOURCE DOCUMENTATION IS UNSATISFACTORY. ALL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. UNSUITABLE MATERIAL WILL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND STATE LAWS.
- J. THE LOCATION OF ALL UTILITIES AND BELOW-GRADE PIPING TO BE INSTALLED SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO SITE WORK.
- K. SEDIMENTATION AND EROSION CONTROLS (S&E), CONSISTING OF, BUT NOT LIMITED TO, SILT FENCING AND/OR HAY BALES, ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF EXCAVATION AREAS. THE CONTROLS WILL BE INSTALLED PRIOR TO INITIATION OF WORK ON THE SITE, S&E ARE TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND ARE TO BE COMBINED WITH SEDIMENTATION AND EROSION CONTROLS UTILIZED FOR OTHER ASPECTS OF THE PROJECT.
- L. THE WATER PIPES FROM THE POTABLE WATER WELLS AND FOR THE DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED FROM HIGH DENSITY POLYETHYLENE (HDPE), BE NSF 61 APPROVED AND BE RATED FOR 160 PSI AND SHALL BE INSTALLED AS SHOWN. ALL PIPE BEDDING SHALL BE OF THE MATERIAL AND COVER DIMENSIONS SHOWN IN THE PLANS. THE FOLLOWING PROCEDURE SHALL BE USED WHEN INSTALLING THE BURIED HDPE PIPE FOR POTABLE WATER SUPPLY.
 - a. INSPECT THE PIPE FOR CUTS, GOUGES, DEEP SCRATCHES OR OTHER DAMAGE BEFORE INSTALLATION. IF A CUT OR GOUGE IS DEEPER THAN 10 PERCENT OF THE MINIMUM WALL THICKNESS OF THE PIPE, THAT SECTION SHALL BE REMOVED AND DISCARDED.
 - b. INSPECT THE PIPE FOR KINKS AND REMOVE AND DISCARD ALL KINKED SECTIONS.
 - c. ALL BENDS SHALL BE LONG RADIUS BENDS AND WELDED JOINTS SHALL BE USED FOR ALL PIPING CONNECTIONS
 - d. COMPACT THE TRENCH BOTTOM AND SMOOTH ANY DEPRESSION OR CAVITIES
 - e. BURY THE PIPE AS SHOWN ON THE PLANS, COMPACTING THE PIPE EMBEDMENT AND BACKFILL MATERIAL IN 1-FOOT LIFTS.
- M. PRESSURE TESTING OF THE HDPE PIPE SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA M55 AND ASTM F1264 AT 100 PSI.
- N. UNDERGROUND WARNING TAPES SHALL BE PLACED ABOVE THE BURIED WATER PIPES AND ELECTRICAL CONDUIT AS SHOWN ON THE PLANS.
- O. AFTER DISINFECTING AND BEFORE PLACING IN SERVICE, ONE WATER SAMPLE WILL BE COLLECTED FROM EACH WELL WITHIN THE TREATMENT BUILDING AND AFTER THE ATMOSPHERIC STORAGE TANK, AND SUBMITTED FOR HETEROTROPHIC PLATE COUNT (HPC) AND BACTERIOLOGICAL.
- P. ALL SAMPLE TAPS SHALL BE SMOOTH NOSE SAMPLE TAPS.
- Q. THE OPERATION OF THE CHEMICAL METERING PUMPS WILL BE INTERLOCKED WITH THE OPERATION OF THE SUBMERSIBLE WELL PUMPS AND EACH WATER SUPPLY WELL WILL BE EQUIPPED WITH A DEDICATED CHEMICAL METERING PUMP THAT IS ADJUSTED TO THE PUMPING RATE OF THE WELL.
- R. THE CONTRACTOR WILL BE REQUIRED TO RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO DEVELOP AS-BUILT (RECORD DRAWINGS) OF ALL SUBSURFACE WATER SUPPLY PIPES AND ELECTRICAL CONDUIT.
- S. EQUIPMENT SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- T. THE PRESSURE TRANSDUCER POSITIONED IN THE 105,000-GALLON ABOVE GRADE POTABLE WATER ATMOSPHERIC STORAGE TANK WILL ALLOW FOR ADJUSTMENT IN THE HIGH/HIGH, HIGH, LOW, MID/LOW AND LOW/LOW LEVEL SETTINGS.
- U. THE OPERATION OF WELL #1, WELL #3 AND WELL #6A WILL ALTERNATE WHEN THE PRESSURE TRANSDUCER IN THE 105,000-GALLON ABOVE GRADE POTABLE WATER ATMOSPHERIC STORAGE TANK INDICATES A LOW LEVEL SETTING.
- V. THE ELECTRICAL CONTROLS WILL BE EQUIPPED WITH A TELEMETRY SYSTEM TO NOTIFY THE CERTIFIED OPERATOR IF A MALFUNCTION OCCURS.
- W. THE PROPOSED PUMP HOUSE WILL BE EQUIPPED WITH A SUPPLY OF PROTECTIVE CLOTHING (APRON, GOGGLES AND GLOVES) TO BE USED FOR SAFE HANDLING OF THE SODIUM HYPOCHLORITE.
- X. THE BACKUP GENERATOR WILL HAVE THE CAPABILITY OF OPERATING ALL THE WATER-SUPPLY AND TREATMENT EQUIPMENT, LIGHTING, HEATING AND CONTROLS.
- Y. THE TREATMENT BUILDING WILL BE EQUIPPED WITH ADEQUATE HEATING, LIGHTING AND VENTILATION. THE VENTILATION WILL ACCOUNT FOR THE ONSITE STORAGE OF SODIUM HYPOCHLORITE.
- Z. THE CONTRACTOR WILL BE REQUIRED TO RETAIN THE SERVICES OF A DRILLING CONTRACTOR TO INSTALL TEST BORINGS TO CONFIRM THE DEPTH TO BEDROCK ALONG THE DIRECTIONAL DRILLING ROUTES.
- AA. THE EXISTING POTABLE WATER SUPPLY SERVICE FROM THE TOWN OF NORTH CASTLE WILL BE PERMANENTLY ABANDONED.



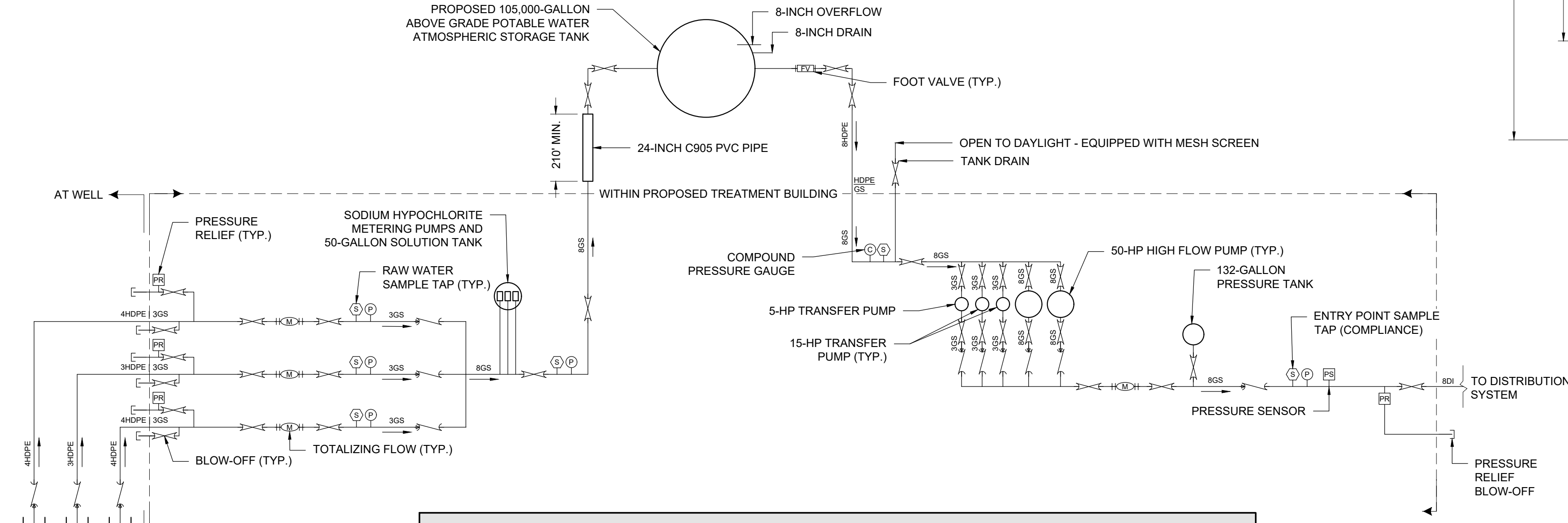
B 2 PROFILE OF WELL - TYPICAL
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| ITEM | WELL #1 | WELL #3 | WELL #6A | COMMENTS |
|------|---|---|---|--|
| A | 575 | 645 | 625 | TOTAL DEPTH OF WELL (FT BG) |
| B | 17 | 27 | 26 | DEPTH TO BEDROCK (FT BG) |
| C | 225 | 125 | 125 | PUMP PLACEMENT DEPTH (FT BG) |
| D | 51 | 61 | 61 | DEPTH OF CASING (FT BG) |
| E | 4.5 | 4.5 | 4.5 | DEPTH OF PITLESS CONNECTION (FT BG) |
| F | MINIMUM 1.5 | MINIMUM 1.5 | MINIMUM 1.5 | HEIGHT OF WELL CAP ABOVE GRADE (FT) |
| G | ARTESIAN | ARTESIAN | ARTESIAN | STATIC WATER LEVEL (FT BG) |
| H | 178 | 70 | 66 | PUMPING WATER LEVEL (FT BG) |
| I | GOULDS 65GS70 | GOULDS 35GS30 | GOULDS 65GS50 | SUBMERSIBLE PUMP MANUFACTURER AND MODEL |
| J | 50 GPM @ 388 FT | 32 GPM @ 247 FT | 55 GPM @ 261 FT | PUMP DESIGN FLOW AND TOTAL DYNAMIC HEAD |
| K | MONOFLEX SCC8x20 | MONOFLEX SCC8x20 | MONOFLEX SCC8x20 | CENTRALIZER, MANUFACTURER AND MODEL |
| L | BAKER MONITOR DIVISION 5.0PS67WBWE23T3S | BAKER MONITOR DIVISION 5.0PS67WBWE23T3S | BAKER MONITOR DIVISION 5.0PS67WBWE23T3S | PITLESS CONNECTION MANUFACTURER AND MODEL |
| M | 3-INCH GALVANIZED STEEL | 3-INCH GALVANIZED STEEL | 3-INCH GALVANIZED STEEL | RISER PIPE DIAMETER |
| N | 4-INCH HDPE DISCHARGE | 3-INCH HDPE DISCHARGE | 4-INCH HDPE DISCHARGE | DISCHARGE PIPE DIAMETER |
| O | 3-INCH BRONZE | 3-INCH BRONZE | 3-INCH BRONZE | CHECK VALVE |
| P | 6-INCH | 6-INCH | 6-INCH | NEW SINGLE STEEL CASING PIPE MEETING AWWA STANDARD A-100, ASTM OR SPI SPECIFICATIONS FOR WATER WELL CONSTRUCTION - MINIMUM OF 0.280 INCH THICKNESS |
| Q | BOTTOM OF WELL CASING TO GRADE | BOTTOM OF WELL CASING TO GRADE | BOTTOM OF WELL CASING TO GRADE | NEAT CEMENT GROUT CONFORMING TO AWWA A100, AND WATER WILL BE USED GROUT SHALL BE A MINIMUM OF 1.5 INCHES THICK AND SHALL MEET PART 5, SUBPART 5-1 APPENDIX 5-A STANDARDS |

FT BG: FEET BELOW GRADE

NOTES:

- 1. A TORQUE ARRESTOR SHALL BE INSTALLED ON THE RISER PIPE IMMEDIATELY ABOVE EACH PUMP TO MINIMIZE MOVEMENT OF THE PUMP AND RISER PIPE WHEN THE PUMP STARTS.
- 2. THE WELLHEAD WILL BE EQUIPPED WITH A LOCKING HASP OR A BOLT REPLACED WITH A COMMON-KEYED PAD LOCK.



| SYMBOL LEGEND | | PIPE SYMBOLS | |
|---------------|-------------------------|--------------|---------------------------|
| | GATE VALVE | | PIPE DIAMETER CHANGE |
| | CHECK VALVE | | PIPE MATERIAL CHANGE |
| | SAMPLE PETCOCK | | MATERIAL ABBREVIATIONS |
| | PRESSURE GAUGE | HDPE | HIGH DENSITY POLYETHYLENE |
| | COMPOUND PRESSURE GAUGE | GS | GALVANIZED STEEL |
| | TOTALIZING FLOW METER | DI | DUCTILE IRON |
| | PRESSURE RELIEF | | |
| | PRESSURE SENSOR/SWITCH | | |

| CONTROL TABLE | | | | | | |
|------------------------------------|----------------------------|---------------|----------------|--------------------------|---------------------------|--|
| CONDITION | SENSOR LOCATION | WELL PUMPS ON | WELL PUMPS OFF | POTABLE BOOSTER PUMPS ON | POTABLE BOOSTER PUMPS OFF | TELEMETRY SYSTEM- OPERATING NOTIFICATION |
| HIGH/HIGH LEVEL | ATMOSPHERIC STORAGE TANK | | X | | | X |
| HIGH LEVEL | ATMOSPHERIC STORAGE TANK | | X | | | |
| LOW LEVEL | ATMOSPHERIC STORAGE TANK | X | | | | |
| MID/LOW LEVEL | ATMOSPHERIC STORAGE TANK | X | | | | |
| LOW/LOW LEVEL | ATMOSPHERIC STORAGE TANK | X | | | | X |
| PRESSURE SENSOR - LESS THAN 70 PSI | PRESSURE TANK (PUMP HOUSE) | | | X | | |
| PRESSURE SENSOR - EQUAL TO 70 PSI | PRESSURE TANK (PUMP HOUSE) | | | | X | X |
| PRESSURE SWITCH LOW PRESSURE | PRESSURE TANK (PUMP HOUSE) | | | | | X |

- NOTE:
- 1. THE WELL PUMP IN WELL #1, WELL #3 OR WELL #6A WILL TURN ON WHEN THE LOW LEVEL SETTING IS ACTIVATED AND WILL CONTINUE TO OPERATE UNTIL THE HIGH LEVEL SETTING IS ACTIVATED, IN THE EVENT THE WATER IN THE ATMOSPHERIC STORAGE TANK REACHES THE LOW/LOW LEVEL, ALL THREE WELL PUMPS WILL ACTIVATE. THE NEXT TIME THE LOW LEVEL SETTING IS ACTIVATED, AN ALTERNATE WELL PUMP WILL BE ACTIVATED. IN THE EVENT OF HIGH FLOW DEMAND, TWO PUMPS WILL BE ACTIVATED AT THE SAME TIME WHEN THE WATER LEVEL REACHES THE MID-LOW LEVEL.

A 5 PROCESS FLOW DIAGRAM
NOT TO SCALE

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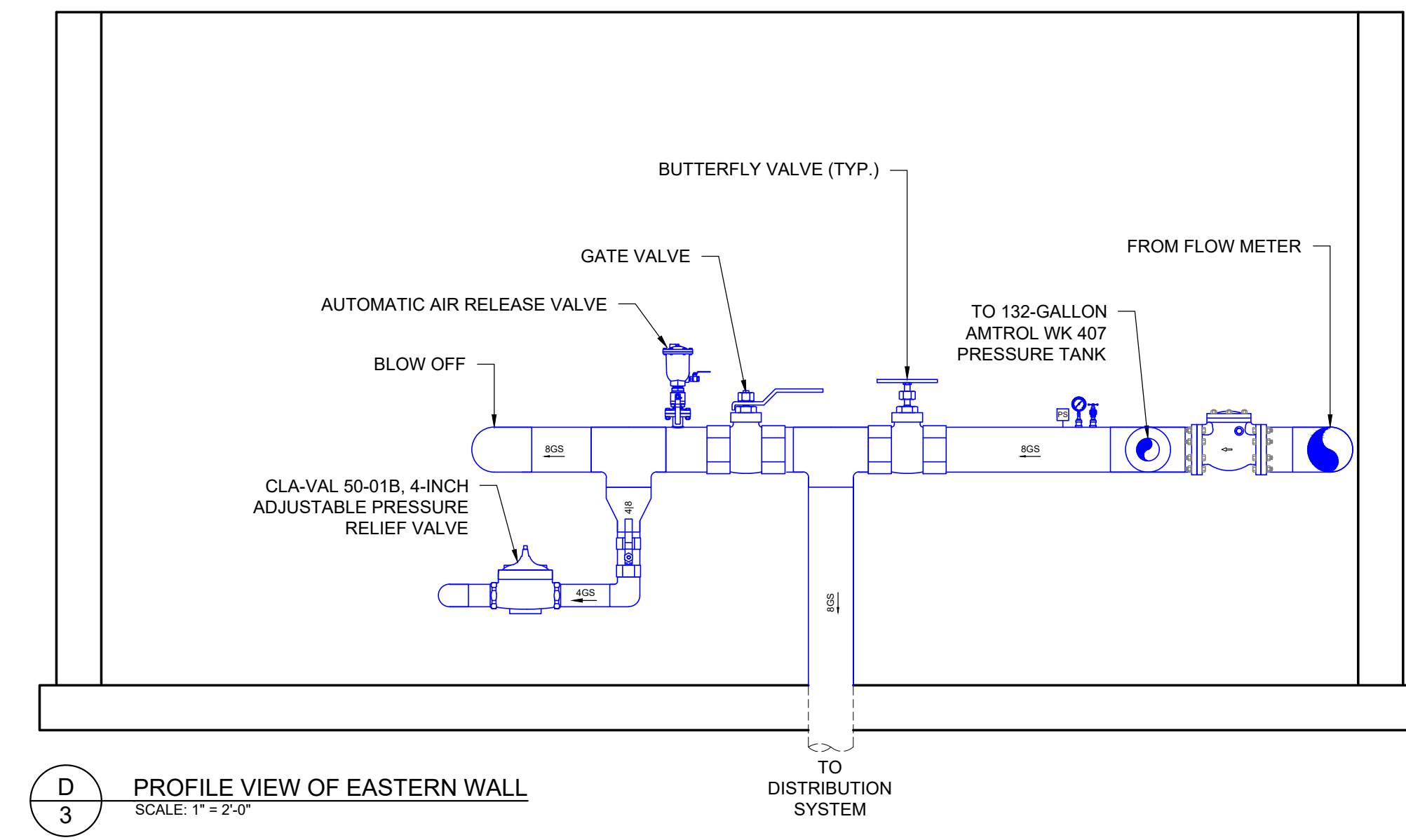
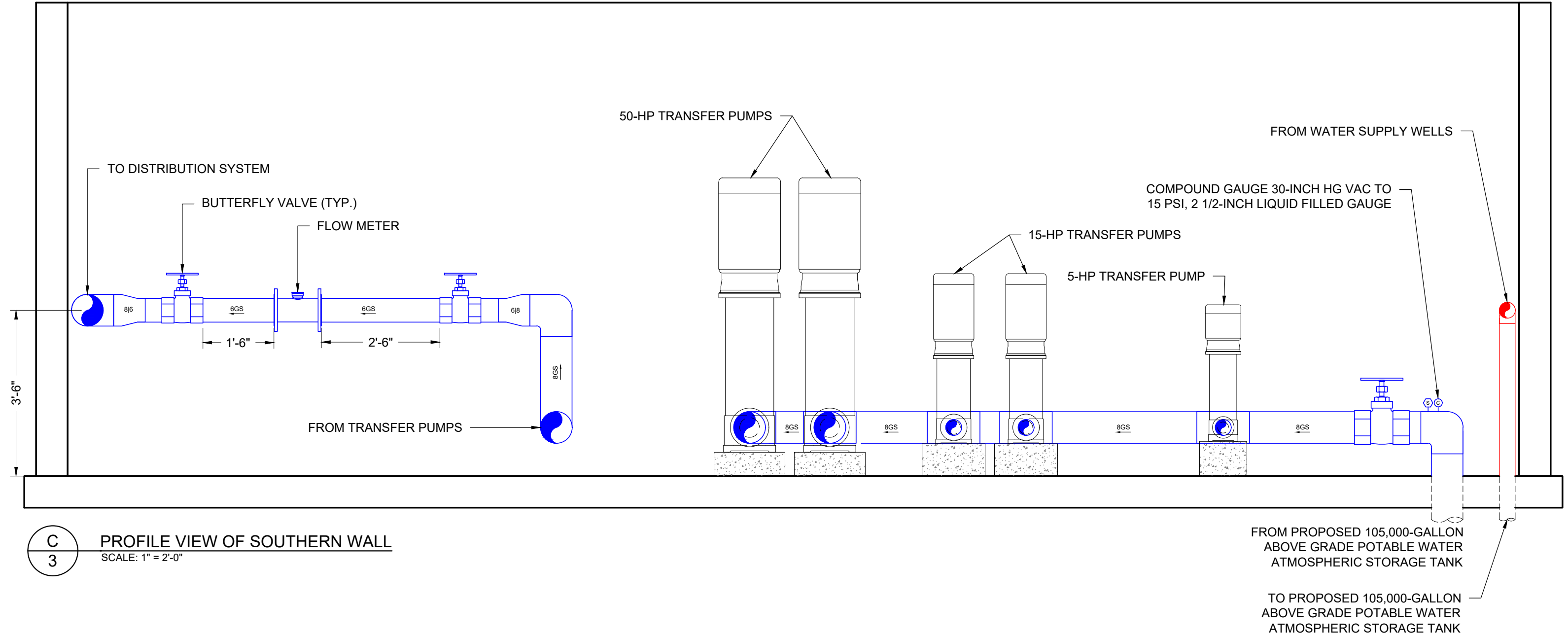
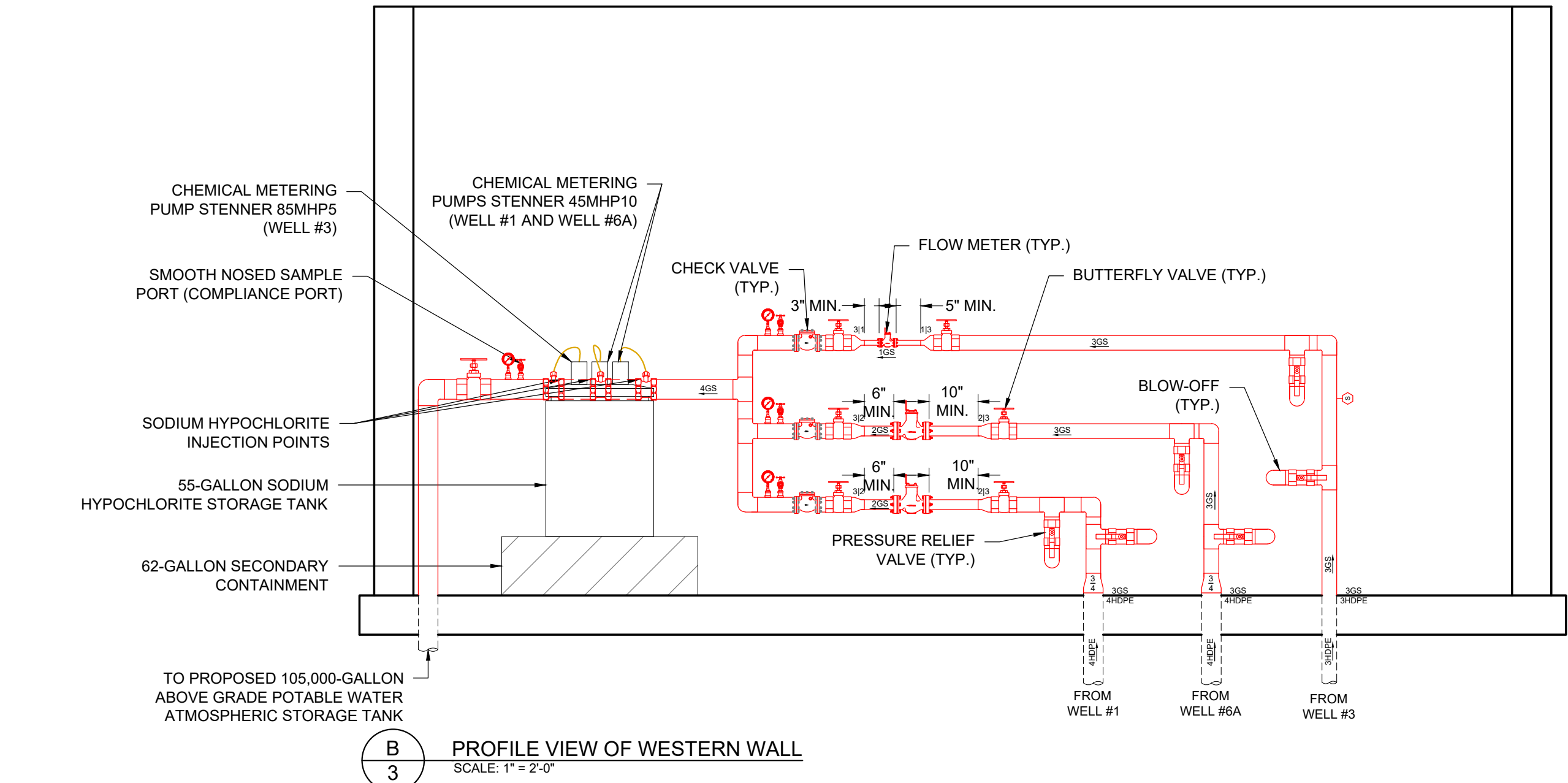
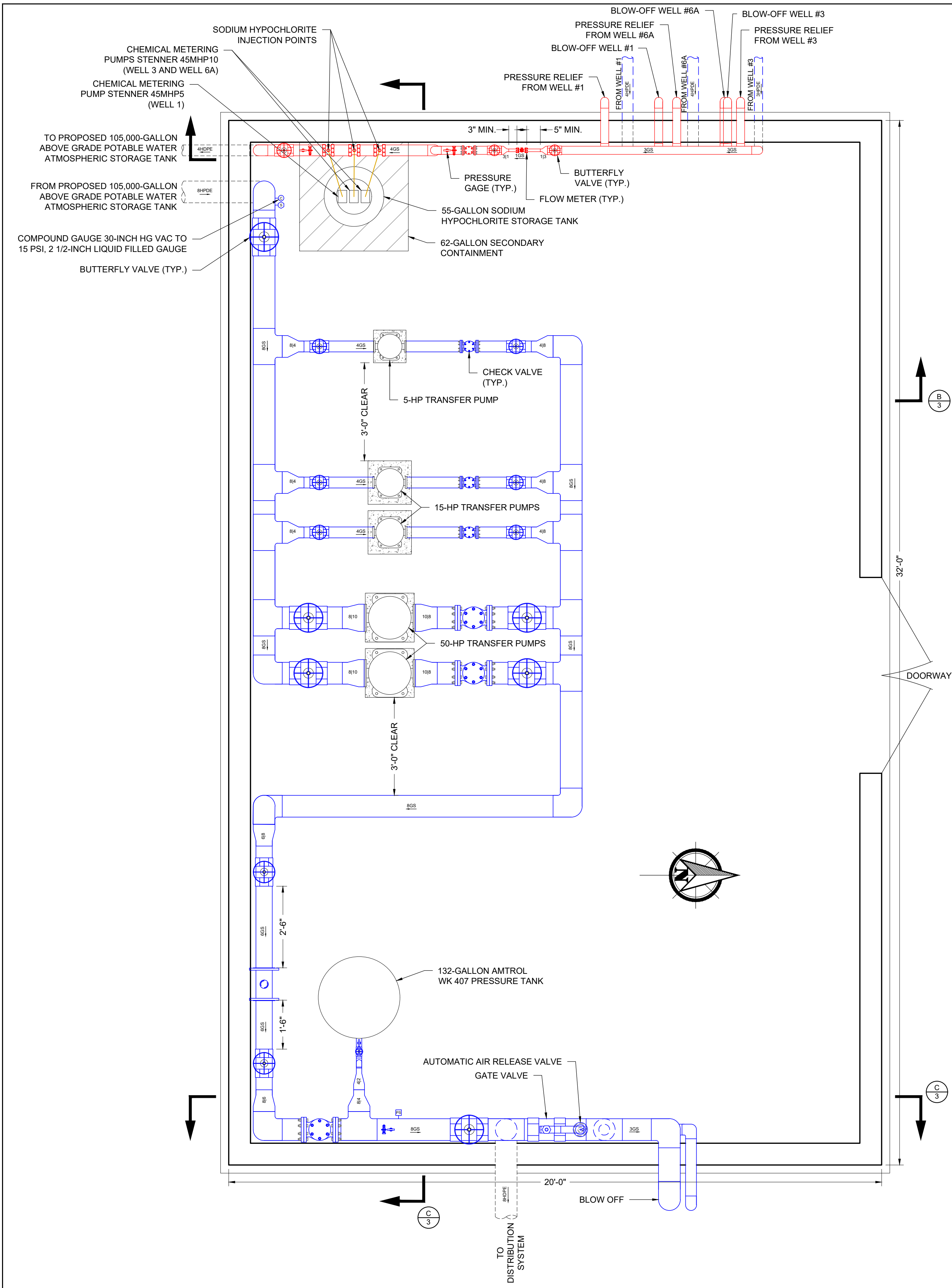
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PROJECT NOTES, EQUIPMENT LIST, PROCESS FLOW DIAGRAM AND WELL PROFILE

Summit Club Residential
568 Bedford Road (Route 22)
Town of North Castle, New York



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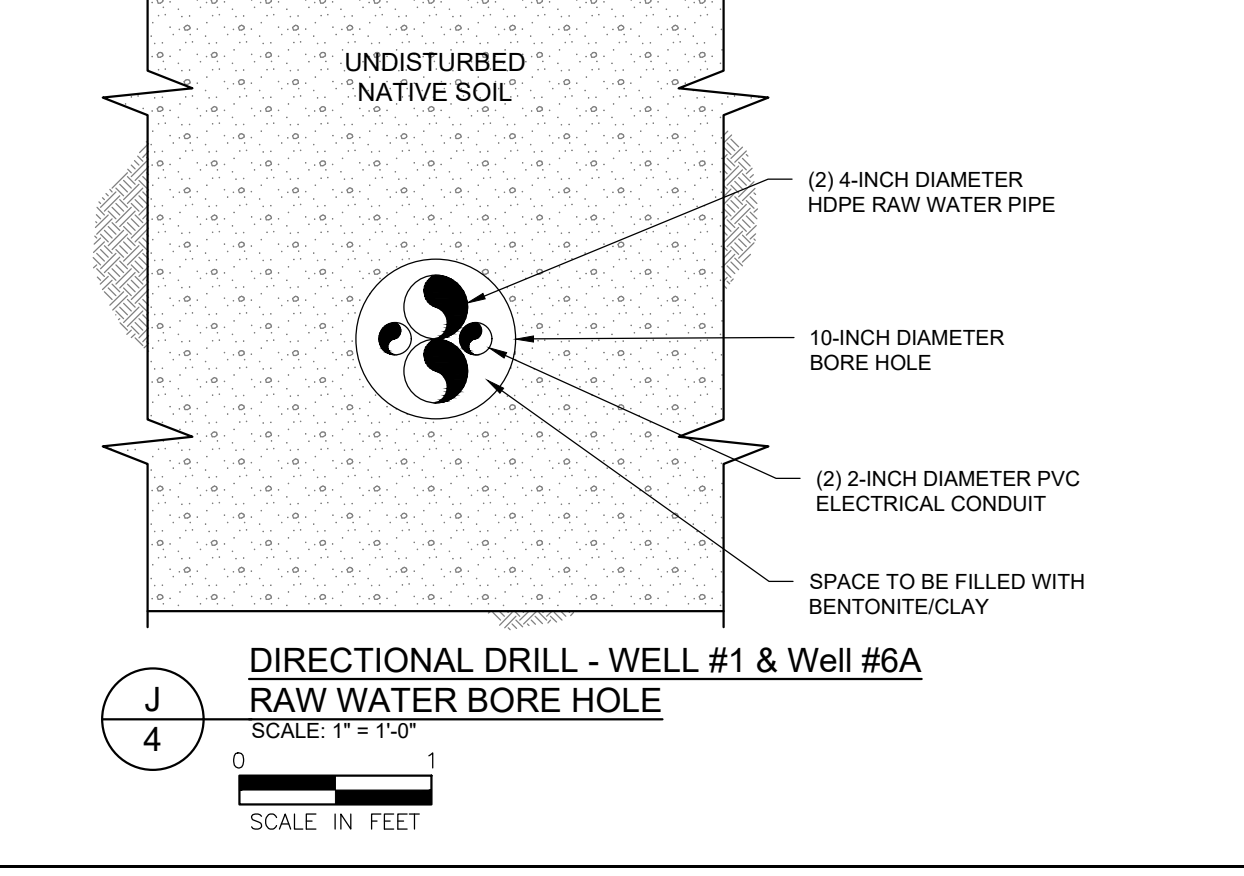
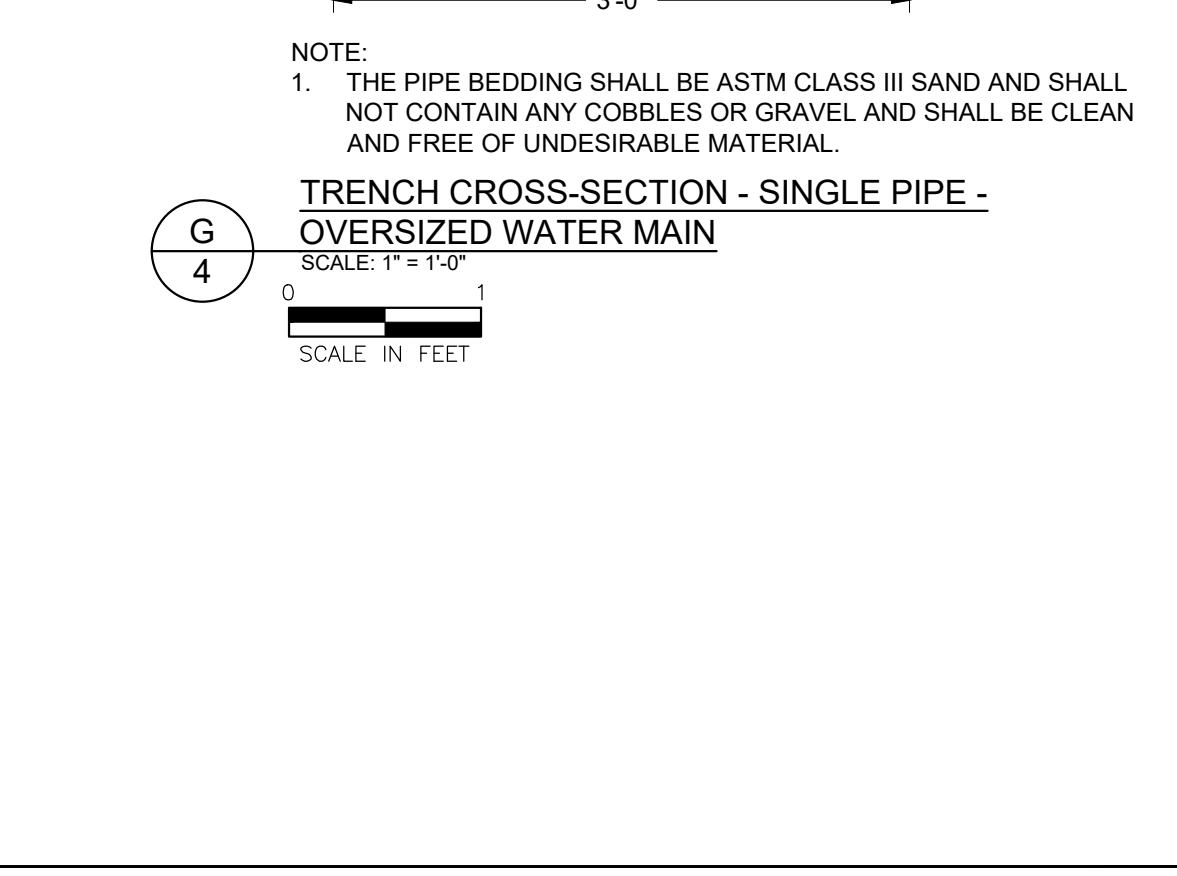
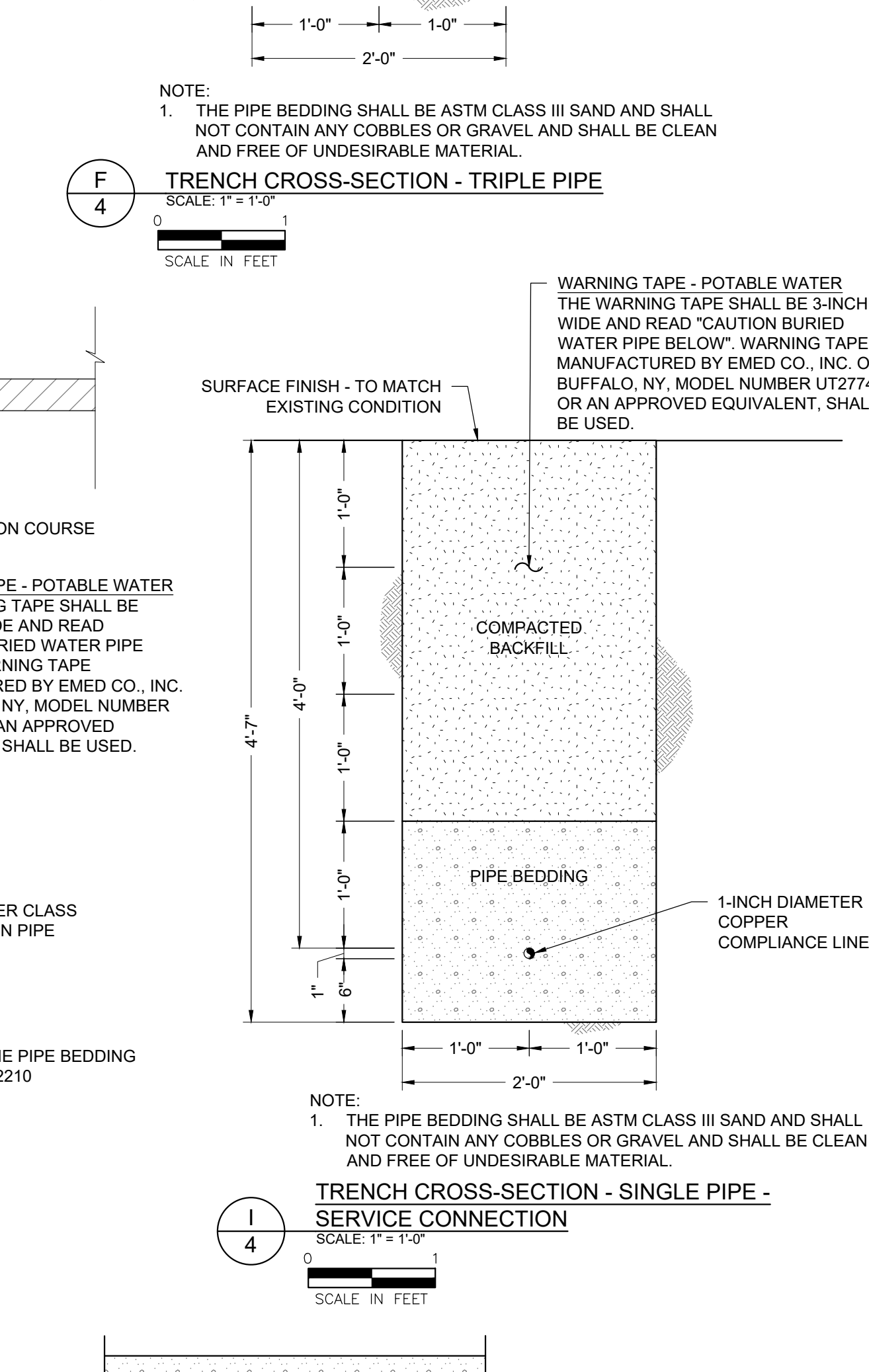
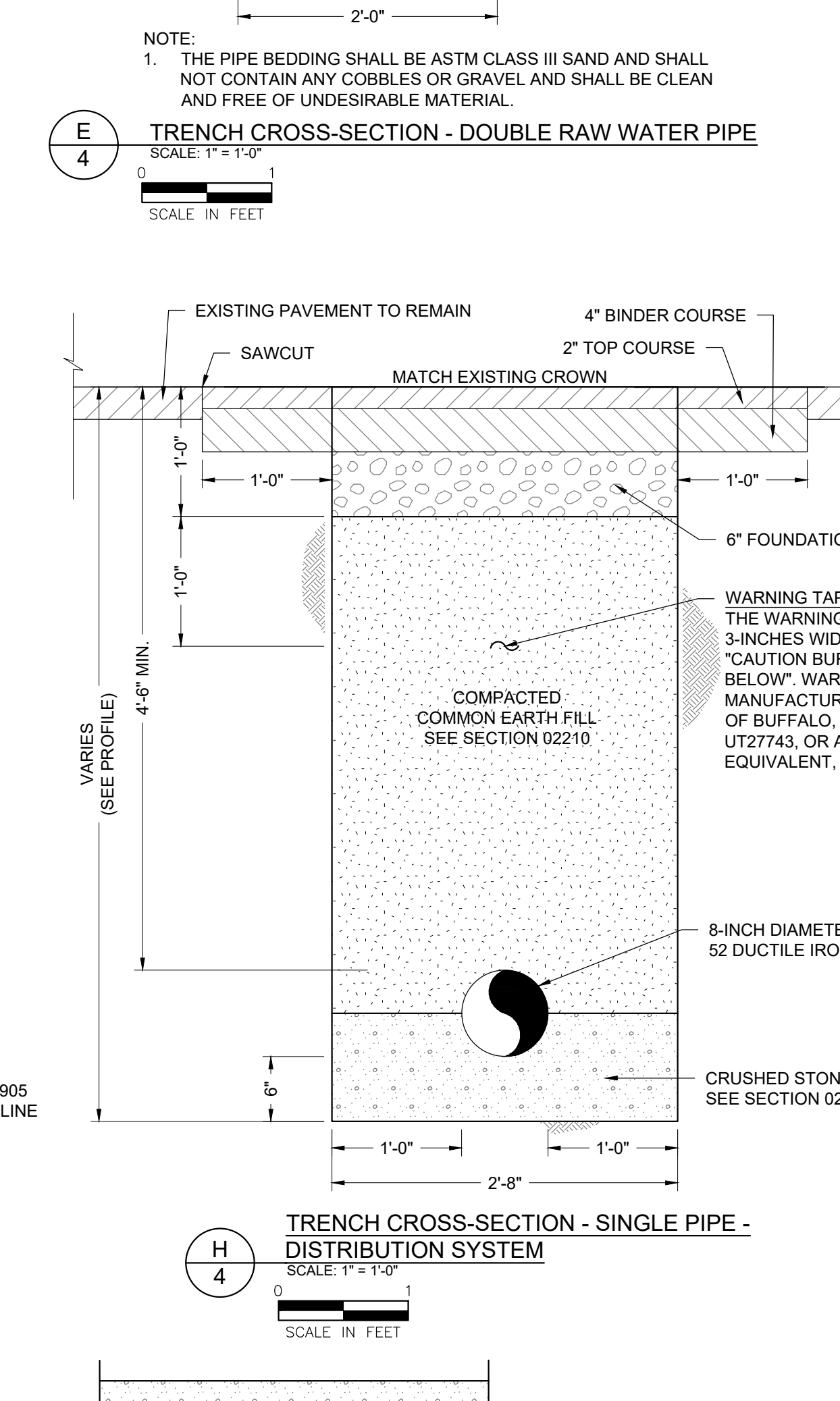
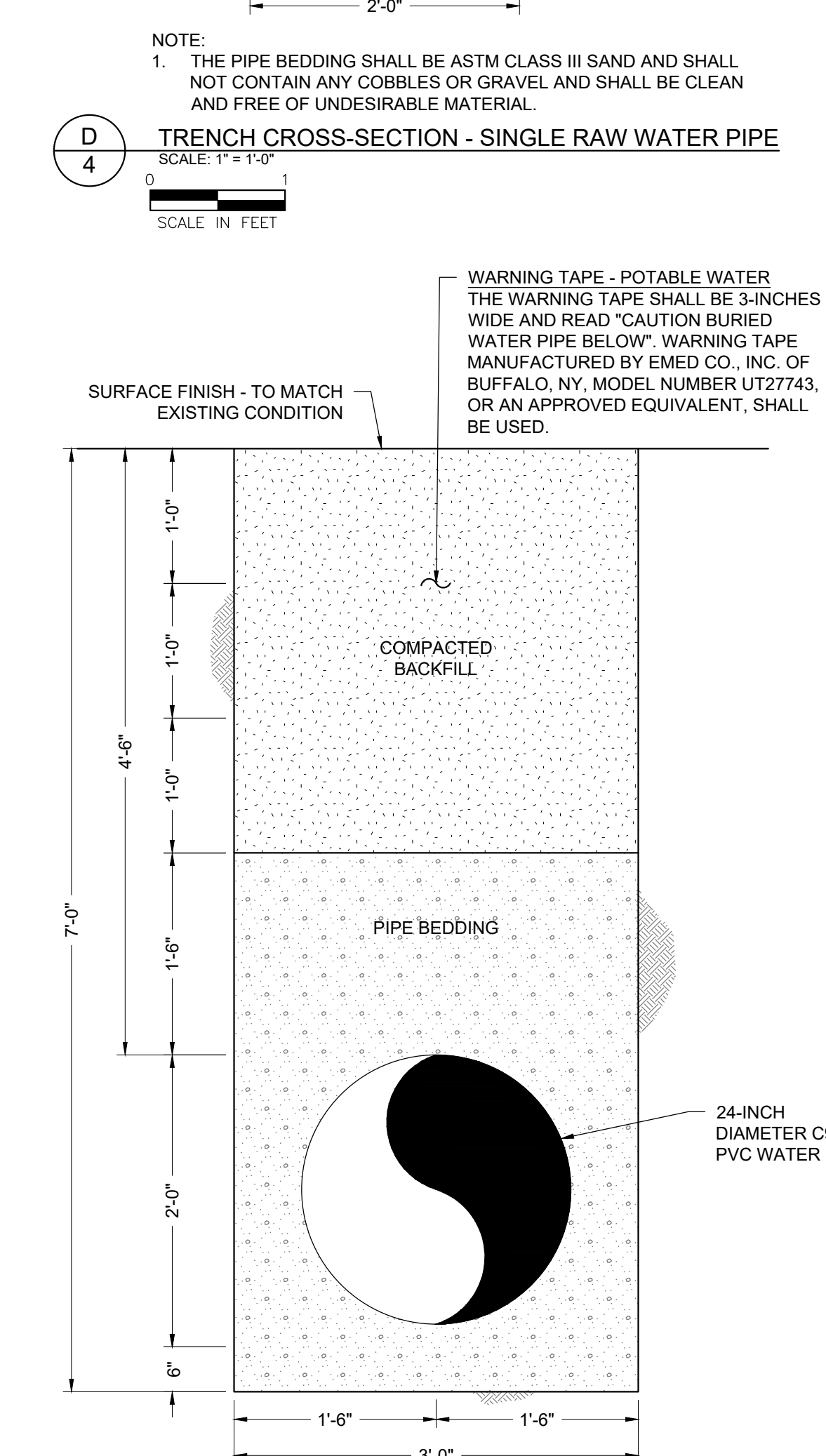
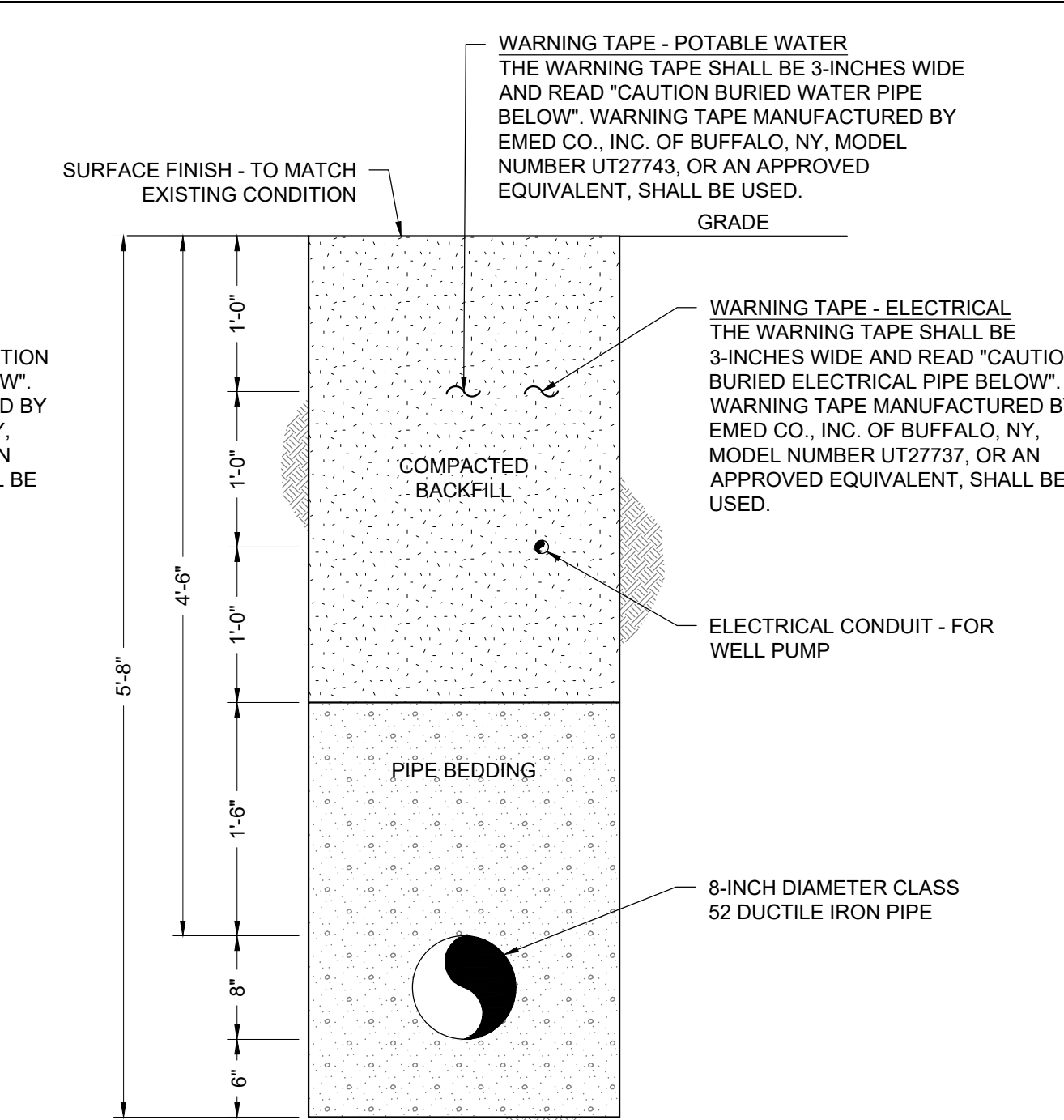
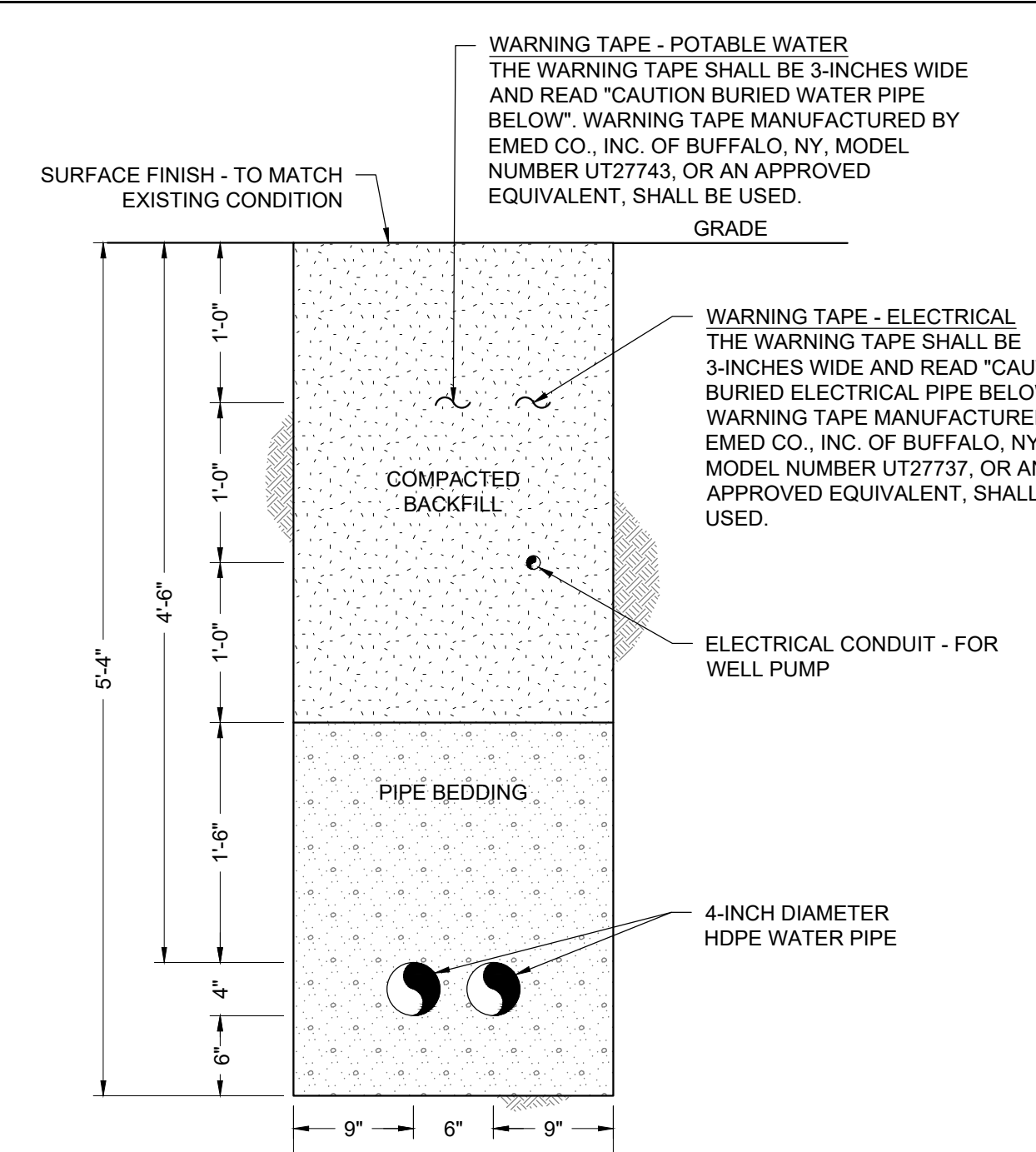
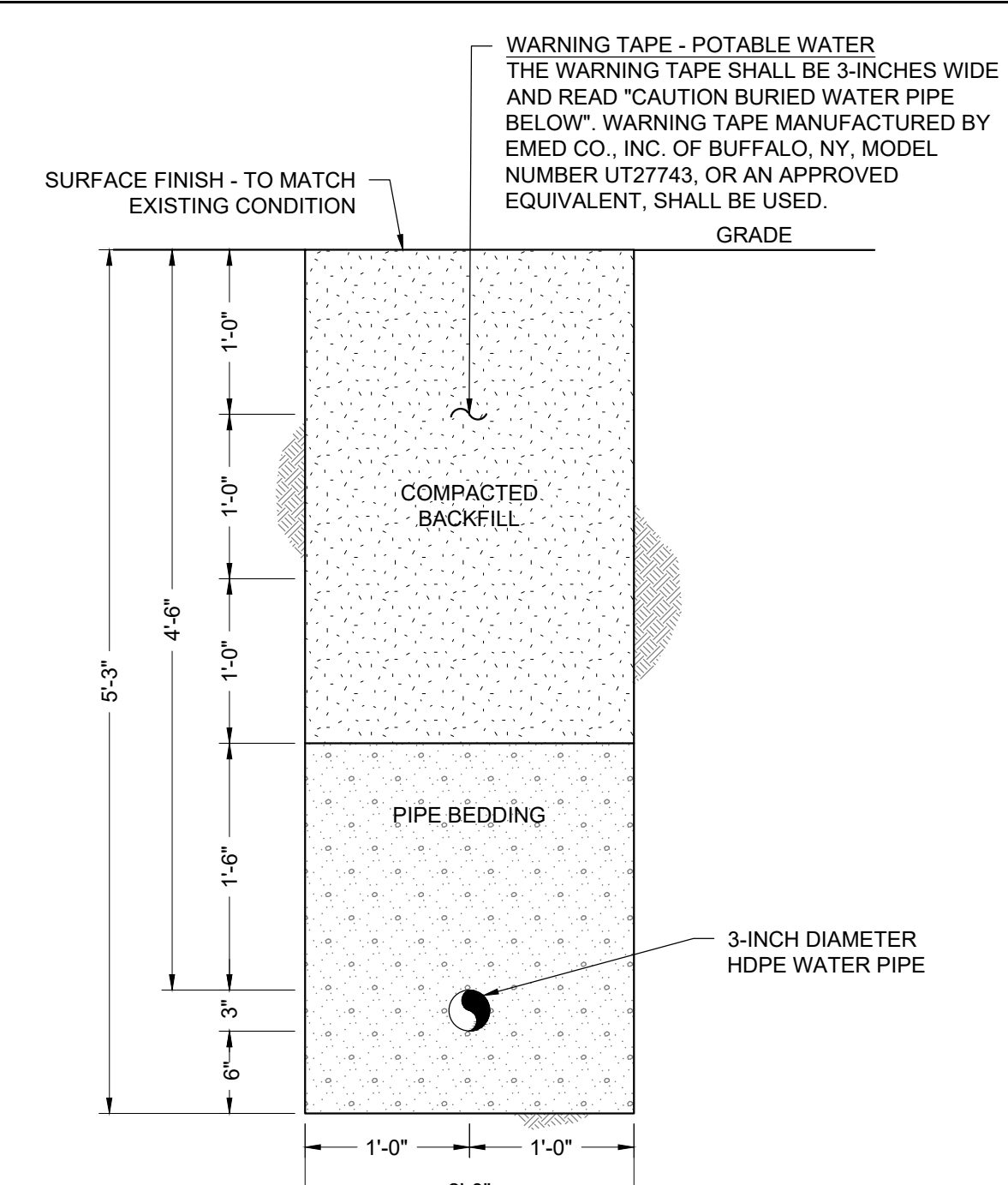
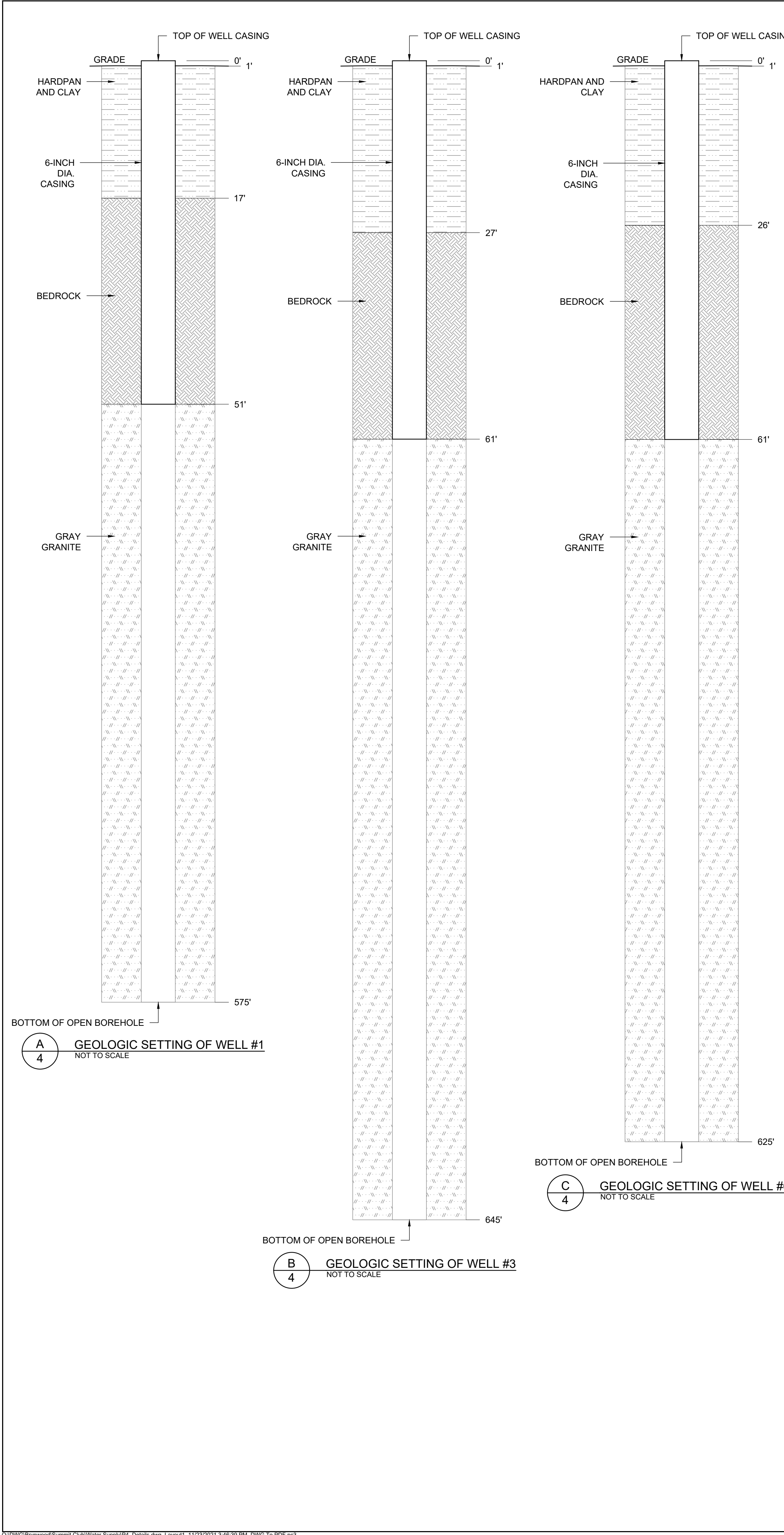
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PROPOSED TREATMENT BUILDING DETAILS

Summit Club Residential
568 Bedford Road (Route 22)
Town of North Castle, New York



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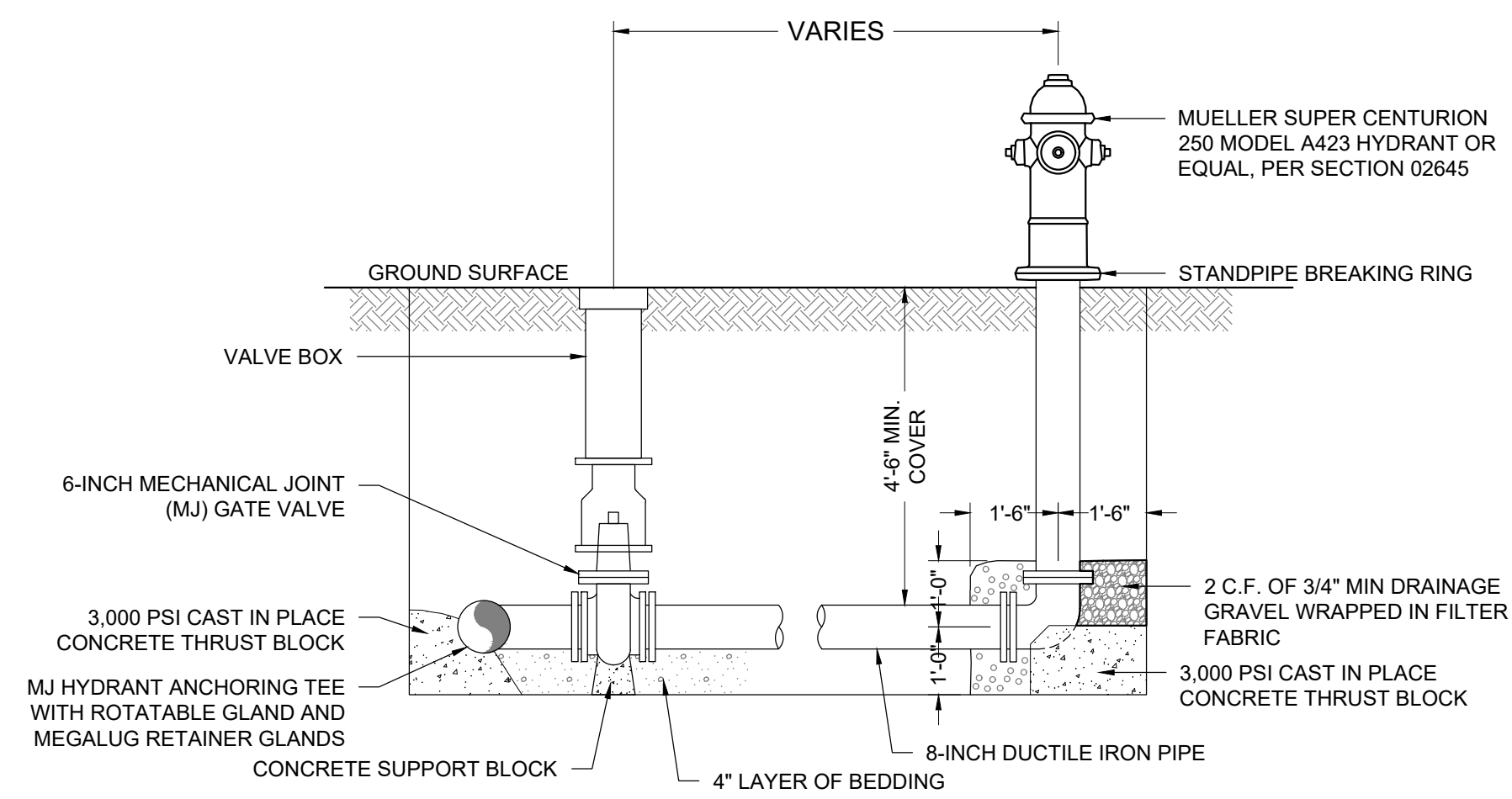
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WELL SETTINGS AND PIPING DETAILS

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Town of North Castle, New York

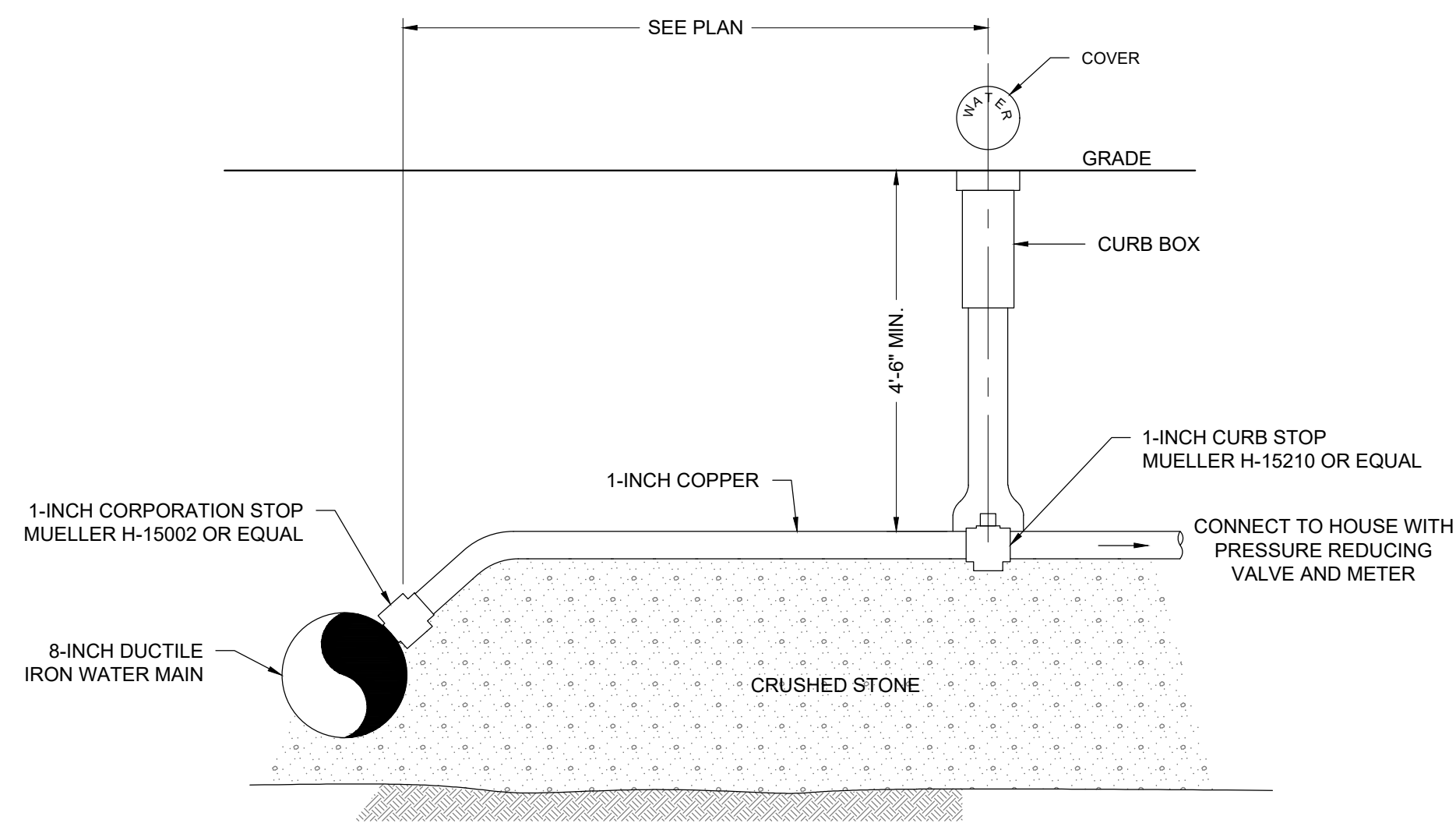
WSP USA
4 Research Drive, Suite 204
Shelton, Connecticut 06484
(203) 929-8555

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Drawing Number
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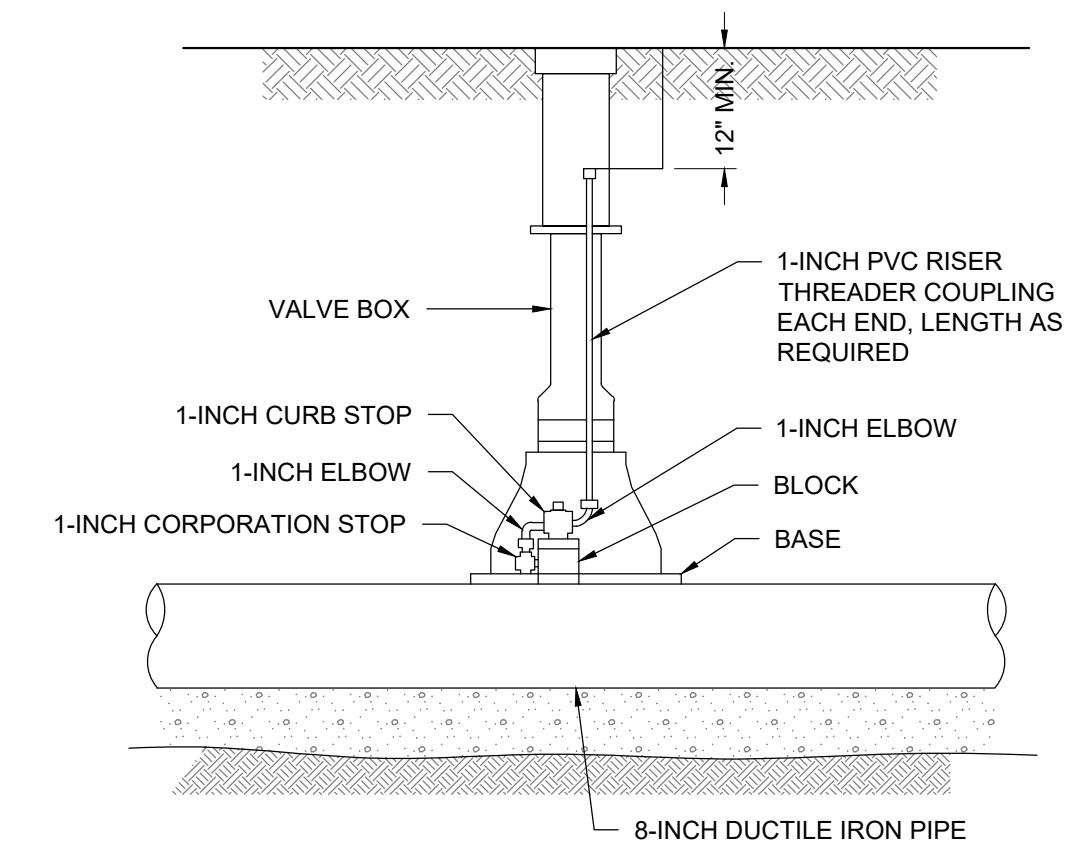


- NOTES:
1. HYDRANT DRAINS SHOULD REMAIN PLUGGED WHEN GROUNDWATER IS ENCOUNTERED 2 FEET OR LESS BELOW THE BASE OF THE HYDRANT.
 2. WHEN HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE.
 3. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS, STORM SEWERS, OR STORM DRAINS.
 4. APPROXIMATE SIGNAGE MUST BE PERMANENTLY AFFIXED TO HYDRANT CITING REQUIREMENTS TO PUMP THE HYDRANT BARREL DRY AFTER USE TO PREVENT DAMAGE DURING FREEZING WEATHER.

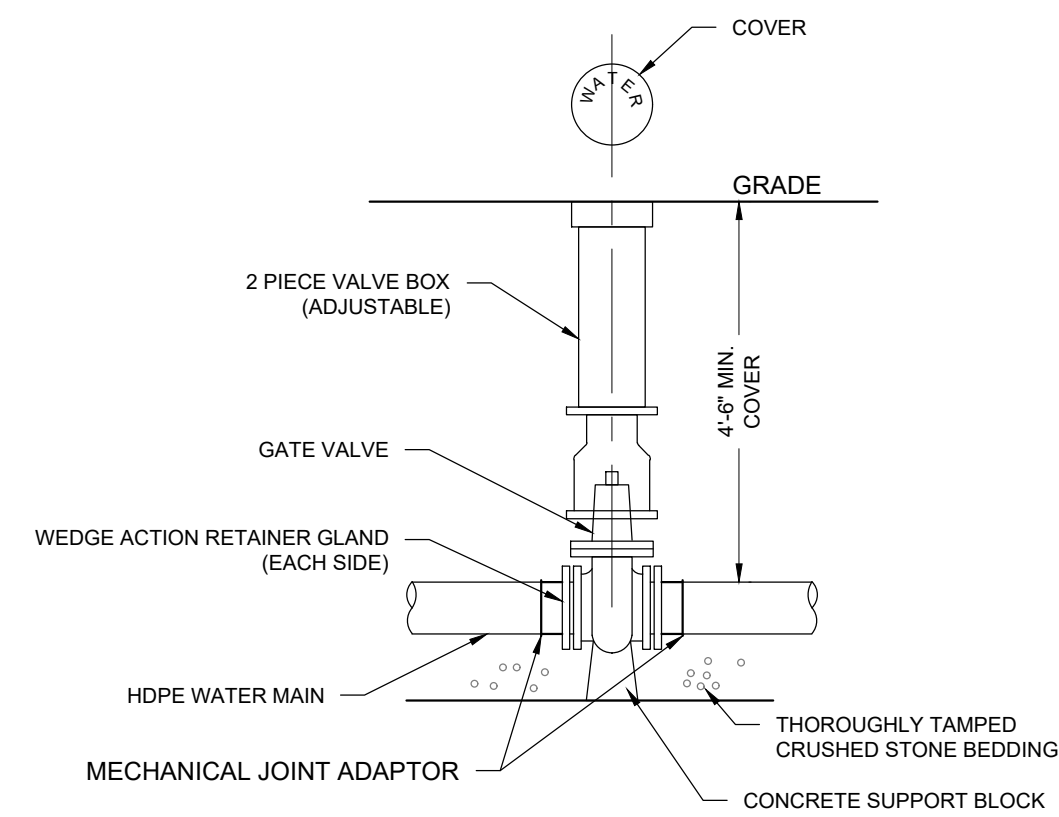
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HYDRANT DETAIL - TYPICAL
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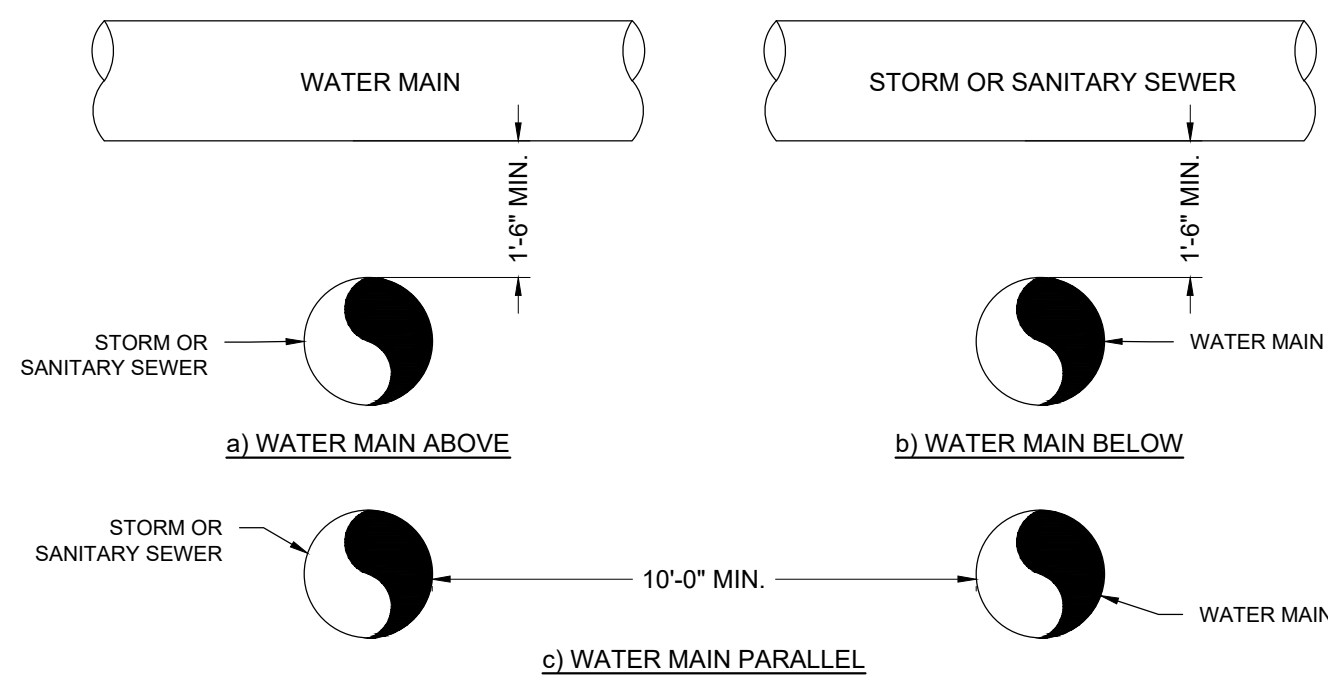
B
5
1-INCH TAP DETAIL (BY OTHERS)
NOT TO SCALE



C
5
HAND OPERATED AIR RELEASE VALVE ASSEMBLY DETAIL
NOT TO SCALE



D
5
VALVE DETAIL - TYPICAL, BURIED
NOT TO SCALE



NOTE:
AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

E
5
PIPING SEPARATION DETAIL - PIPE CROSSING AND PARALLEL PIPE INSTALLATION
NOT TO SCALE

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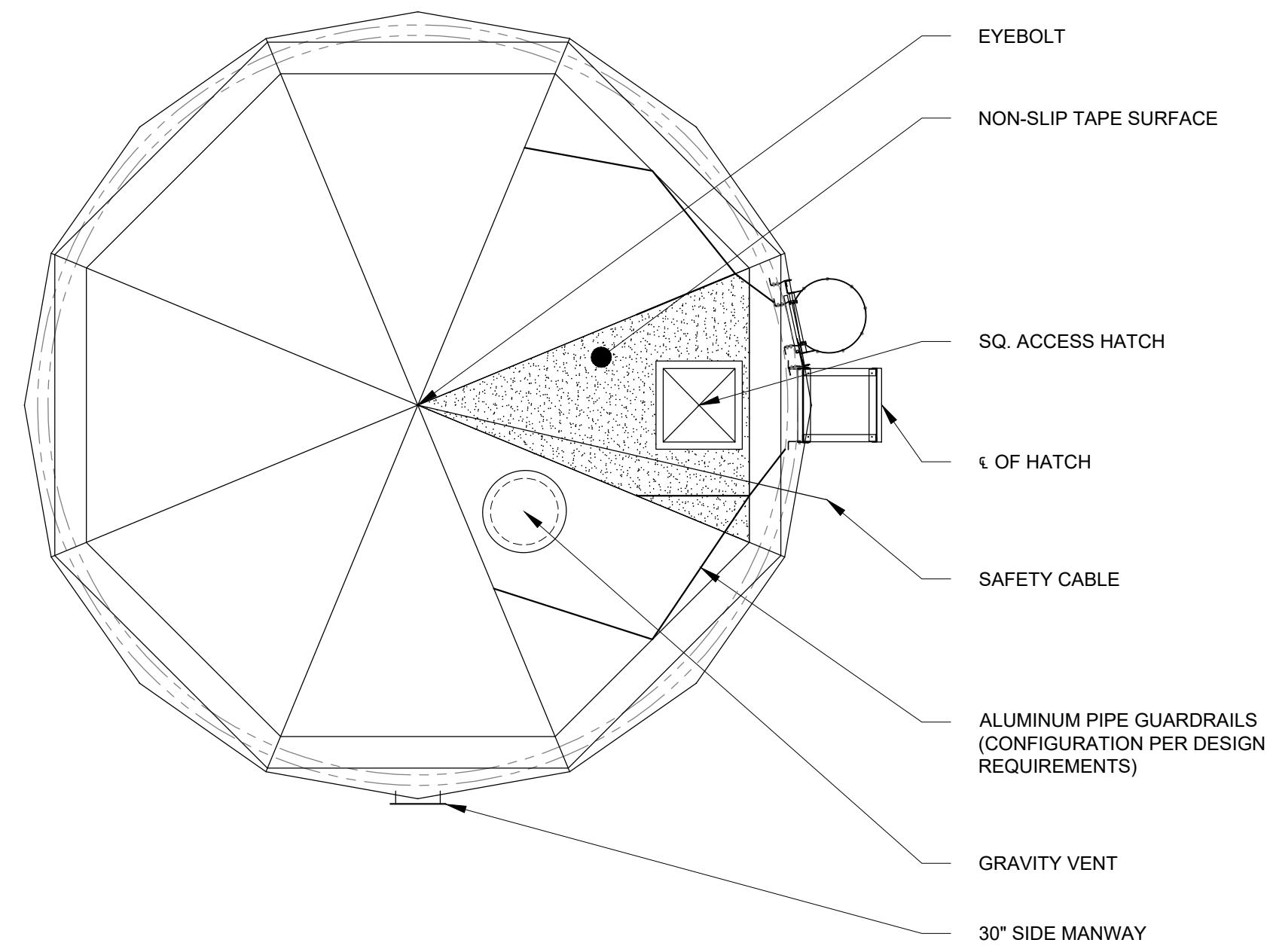
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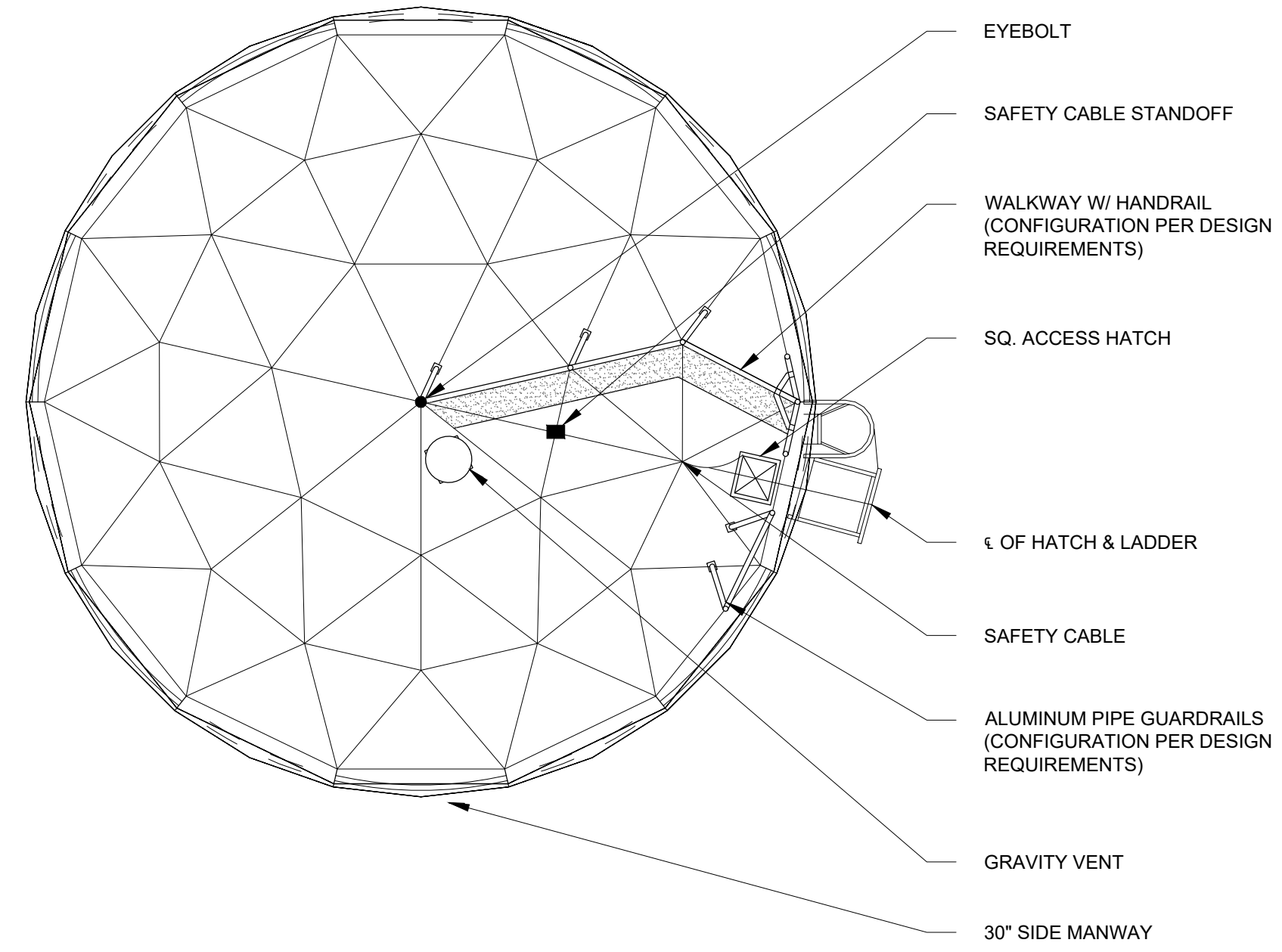
PIPING DETAILS

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 Town of North Castle, New York

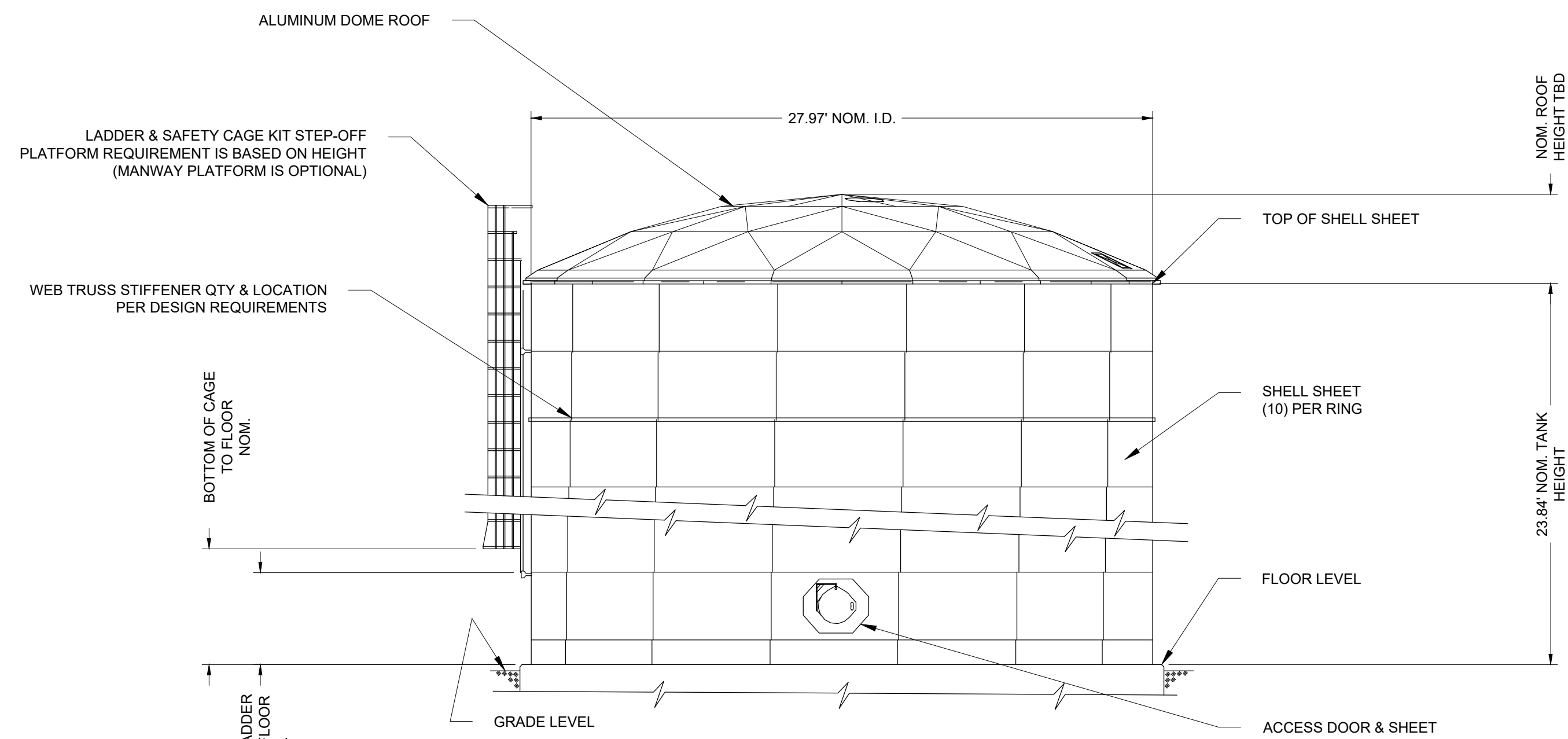




A
6 PLAN VIEW - TANK
SCALE: 1" = 5'-0"



B
6 PLAN VIEW - DOME ROOF
SCALE: 1" = 5'-0"



C
6 PROFILE VIEW - TANK
SCALE: 1" = 5'-0"

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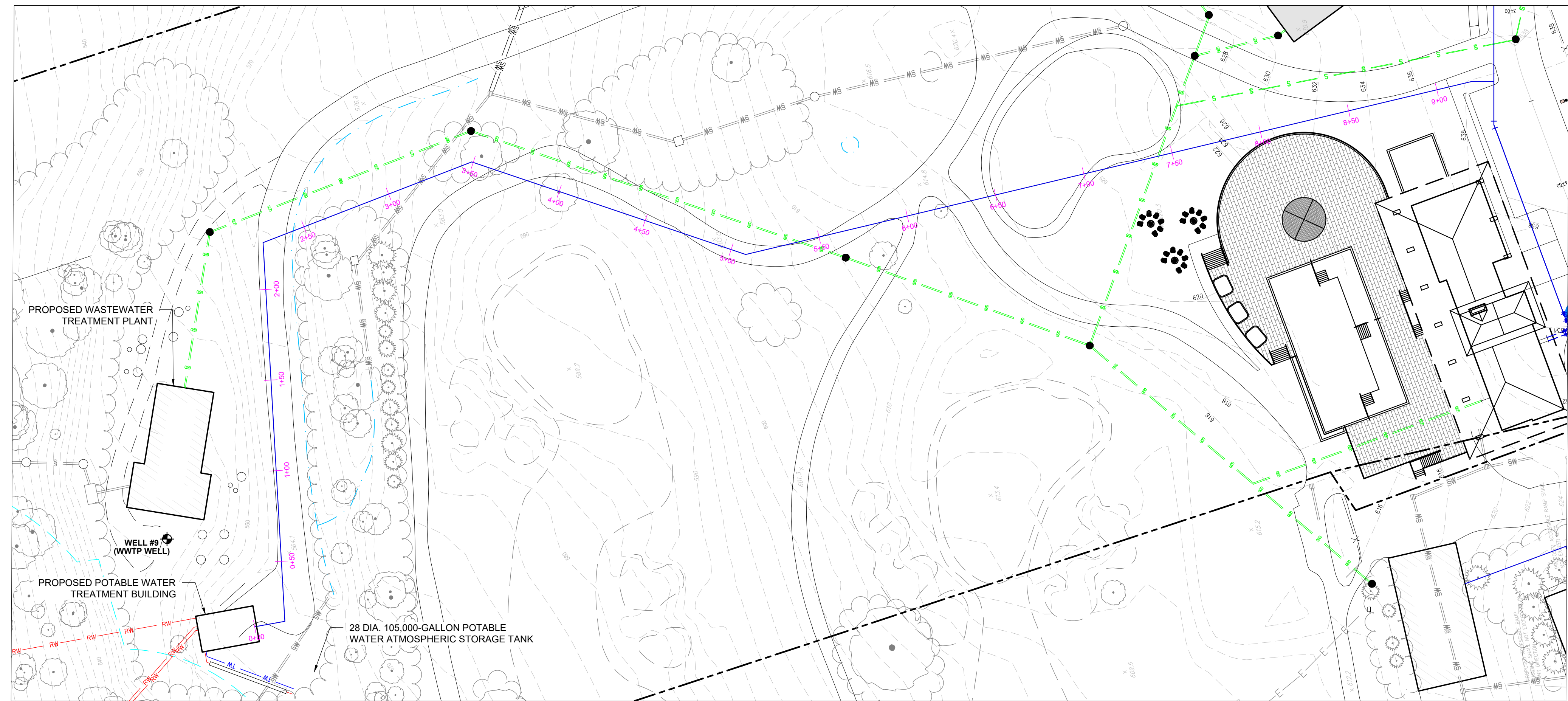
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205,000-GALLON ABOVE GRADE POTABLE WATER ATMOSPHERIC STORAGE TANK DETAILS

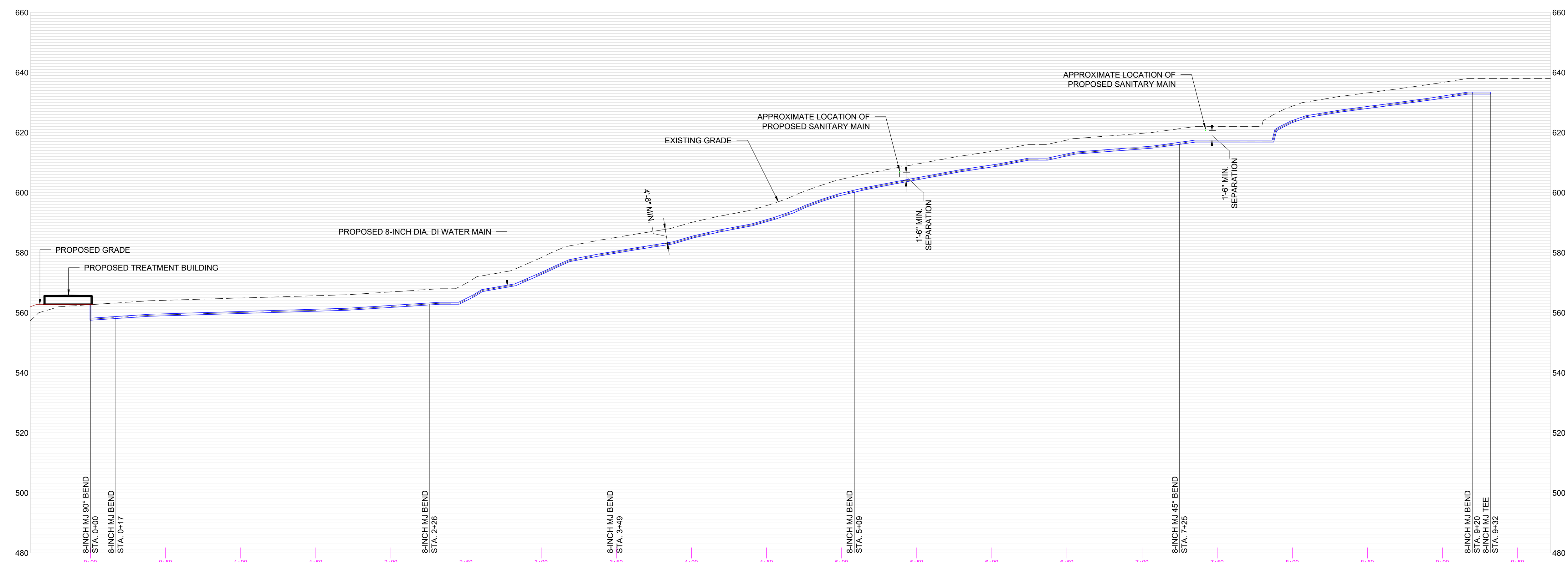
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Town of North Castle, New York



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PLAN VIEW
SCALE: 1" = 40'



PROFILE VIEW
VERTICAL SCALE: 1" = 20'
HORIZONTAL SCALE: 1" = 40'

LEGEND

- PROPERTY BOUNDARY
- - - EXISTING CONTOUR
- ⊕ EXISTING WELL
- SW --- SW EXISTING STORMWATER PIPE
- SW --- SW PROPOSED STORMWATER PIPE
- S --- S PROPOSED SANITARY SEWER MAIN
- W --- W PROPOSED 8-INCH DIA. DUCTILE IRON WATER MAIN
- RW --- RW PROPOSED 3-INCH DIA. HDPE RAW WATER PIPE

STATION NUMBER

0 20
VERTICAL SCALE IN FEET

0 40
HORIZONTAL SCALE IN FEET

| REV | DESCRIPTION | DATE |
|-----|-------------|------|
| 1 | CHG | |
| 2 | CHG | |
| 3 | CHG | |

REVISIONS

SEAL

DRAWN BY: RAC
CHECKED: MS
APPROVED: SR

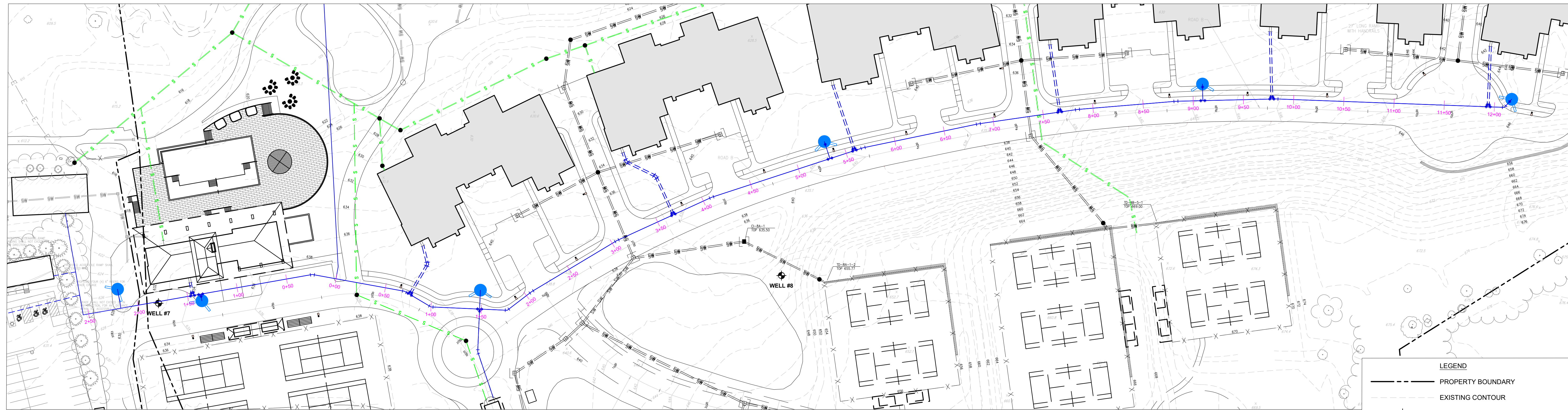
DRAWING DATE: 11/23/21

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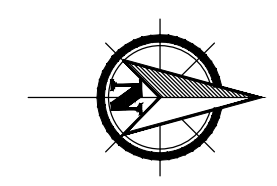
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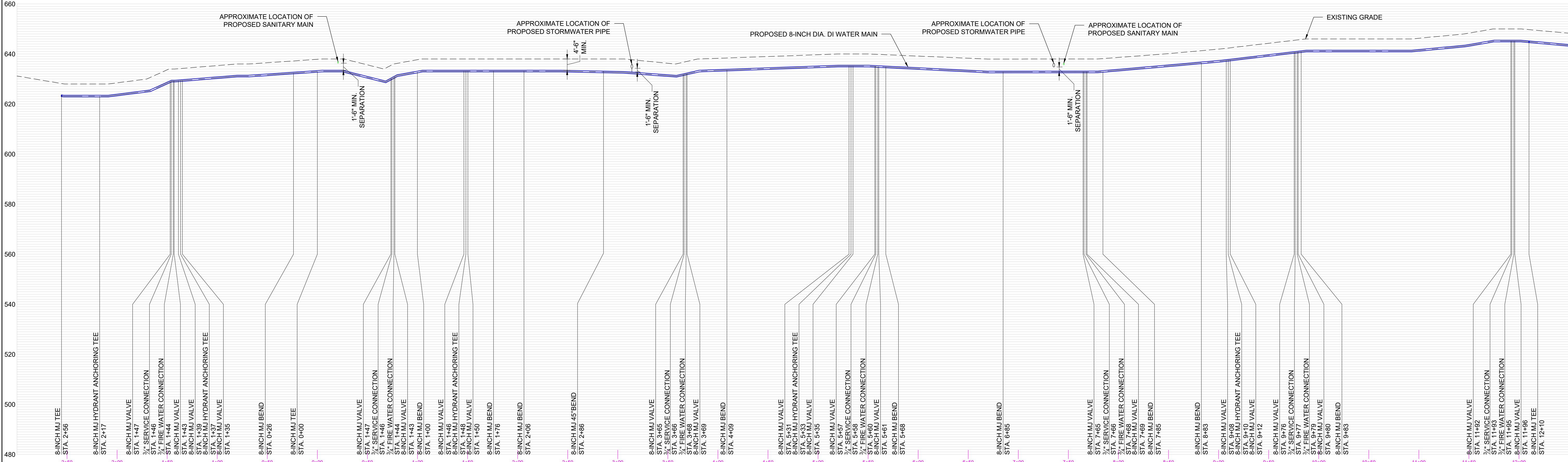


PLAN VIEW
SCALE: 1" = 50'



LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR
- EXISTING WELL
- PROPOSED STORMWATER PIPE
- PROPOSED 8-INCH DIA. DUCTILE IRON WATER MAIN
- PROPOSED 3/4-INCH DIA. DUCTILE IRON SERVICE CONNECTION
- PROPOSED 2-INCH DIA. DUCTILE IRON SERVICE CONNECTION
- PROPOSED FIRE HYDRANT
- STATION NUMBER



PROFILE VIEW
VERTICAL SCALE: 1" = 20'
HORIZONTAL SCALE: 1" = 50'

| REV | DESCRIPTION |
|-----|-------------|
| 1 | CHANG |
| 2 | CHANG |
| 3 | CHANG |

| DATE | SEAL | RAC | MS | SR | APPROVED DATE |
|------|------|-----|----|----|---------------|
| | | | | | 11/23/21 |

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