ZARIN & STEINMETZ LLP

Kory Salomone
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Also admitted in CT

March 25, 2024

Via Email
Christopher Carthy, Chairman
North Castle Planning Board
17 Bedford Road
Armonk, NY 10504

Re: MRL 11 Whippoorwill LLC
11 Whippoorwill Lane (107.04-1-5)
Site Plan Application

Chairman Carthy and Members of the Planning Board:

As you know, this firm, together with Alfonzetti Engineering, P.C., represents MRL 11 Whippoorwill LLC ("Applicant") in connection with this Site Plan Application for the construction of a single-family home at the property located at 11 Whippoorwill Lane ("Property"). This application was last before your Board on March 11, 2024. At that meeting, we discussed the Applicant's commitment to move forward with the smaller 5,800 s.f. single-family home that previously received approvals form the RPRC. At the conclusion of the March 11th meeting, the Applicant advised that a revised, more robust, landscaping plan would be submitted for discussion. Additionally, the Applicant's consultant has revised the Site Plan and SWPPP.

In support of this application, we are pleased to submit the following:

1. "Site Plan, 11 Whippoorwill Lane, Town of North Castle, Westchester County, New York," prepared by Alfonzetti Engineering, P.C., dated June 12, 2023 and last revised March 25, 2024;

2. "Site Details, 11 Whippoorwill Lane, Town of North Castle, Westchester County, New York," prepared by Alfonzetti Engineering, P.C., dated June 12, 2023 and last revised March 25, 2024;

3. Stormwater Pollution Prevention Plan, prepared by Alfonzetti Engineering, P.C., dated June 30, 2023 and last revised March 25, 2024;

4. Planting Plan (Sheet L-1), prepared by IQ Landscape Architects, dated March 20, 2024 and last revised March 25, 2024.

Please place this matter on the Planning Board's April 8, 2024 agenda for a continuation of the public hearing and, if your Board deems appropriate, site plan approval.

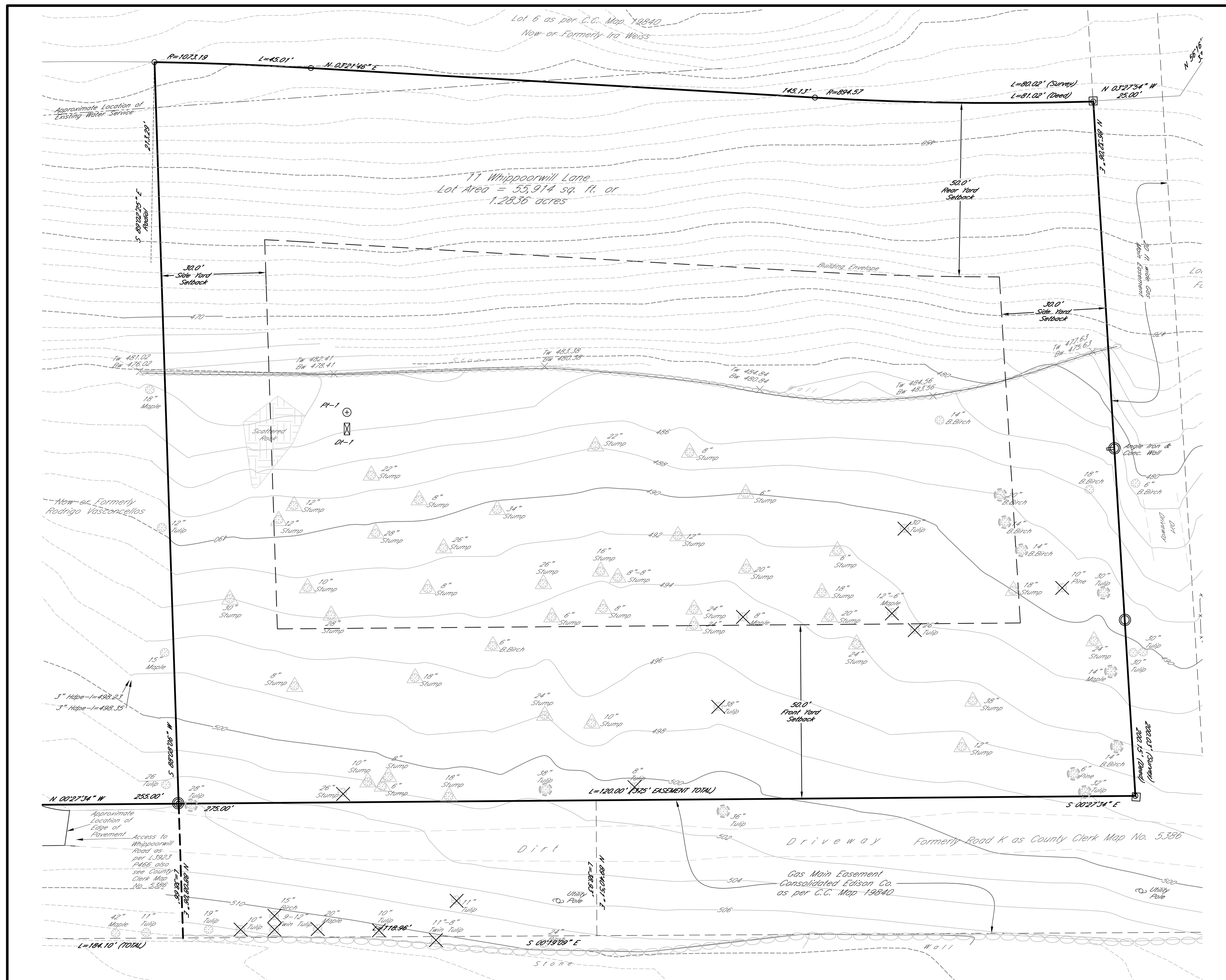
If you have any questions or concerns, please don't hesitate to contact me.

Very truly yours,

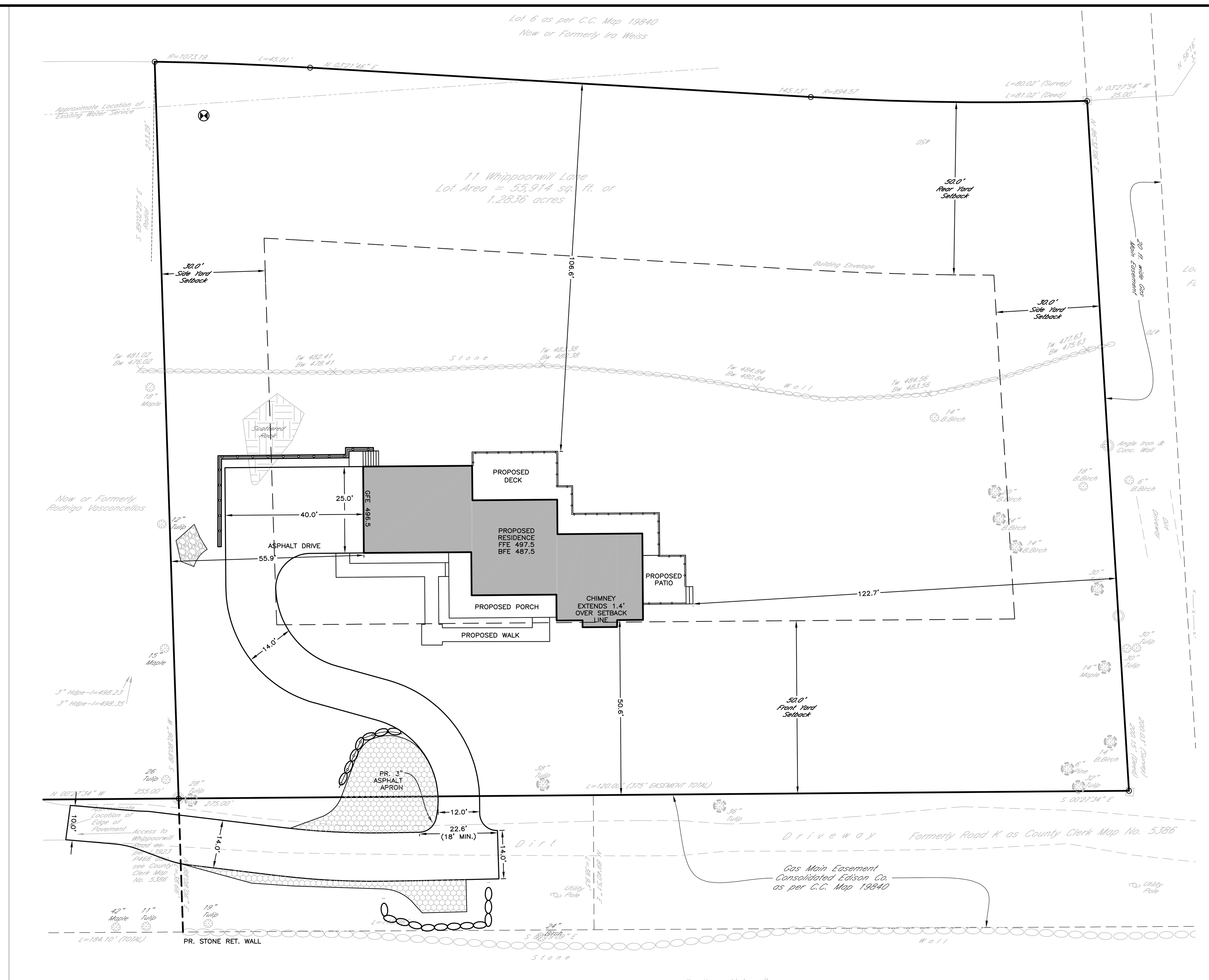
Kory Salomone

Kory Salomone

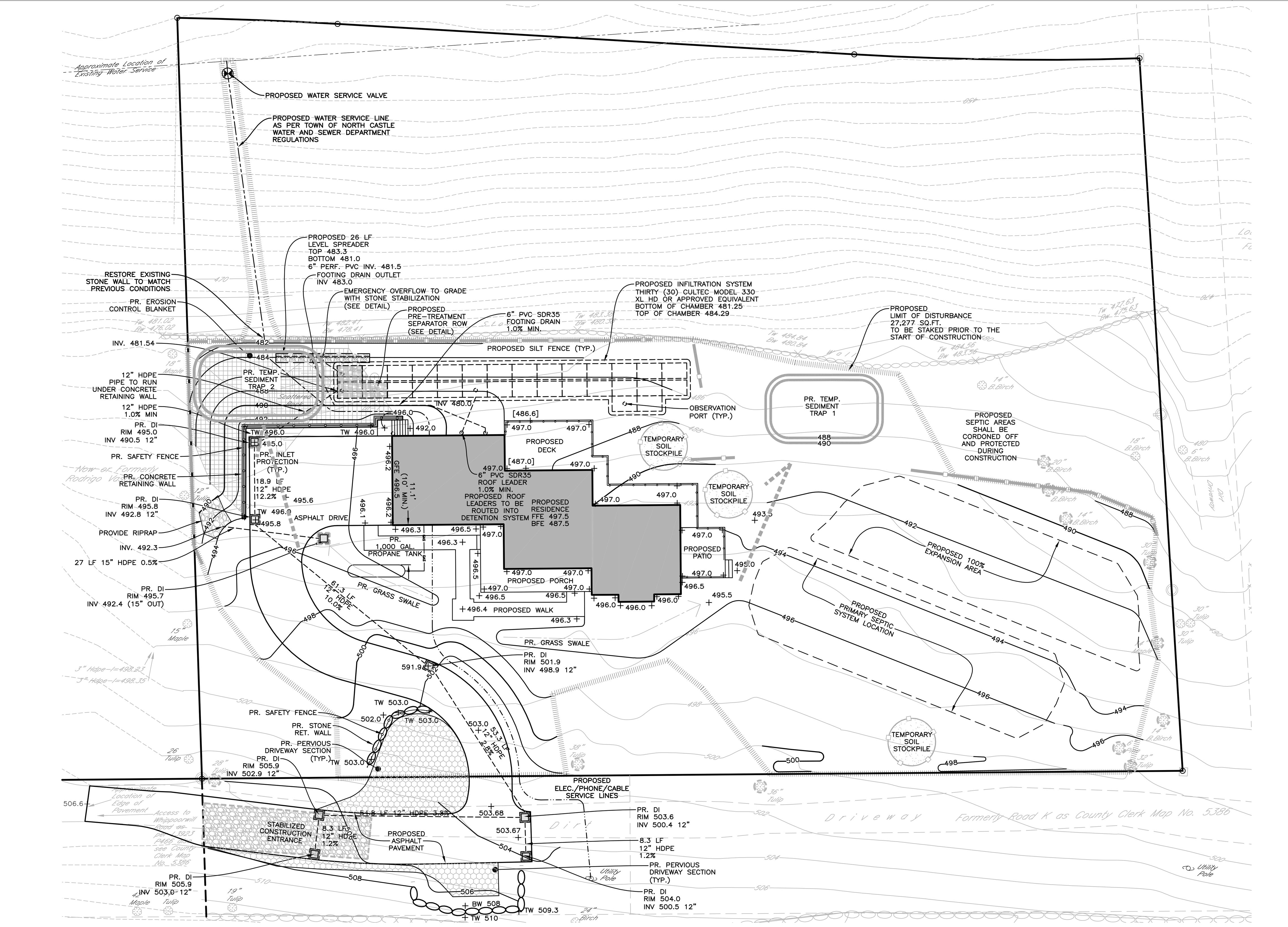
cc: Adam Kaufman, AICP
Roland Baroni, Jr., Esq.
John Kellard, P.E.
Serge Lebedev
Ralph Alfonzetti, P.E.



EXISTING CONDITIONS & DEMO PLAN



PROPOSED LAYOUT PLAN



PROPOSED DEVELOPMENT PLAN

DEEP TEST HOLE DESCRIPTION	
DT1	0"–6" TOPSOIL 6"–72" SILTY SANDS MODERATELY COMPACTED

PERCOLATION TEST DATA	
P1	40 MIN./IN.

TREE LEGEND

- TREES TO BE REMOVED
- TREES TO BE PROTECTED

TREE DEMO LIST

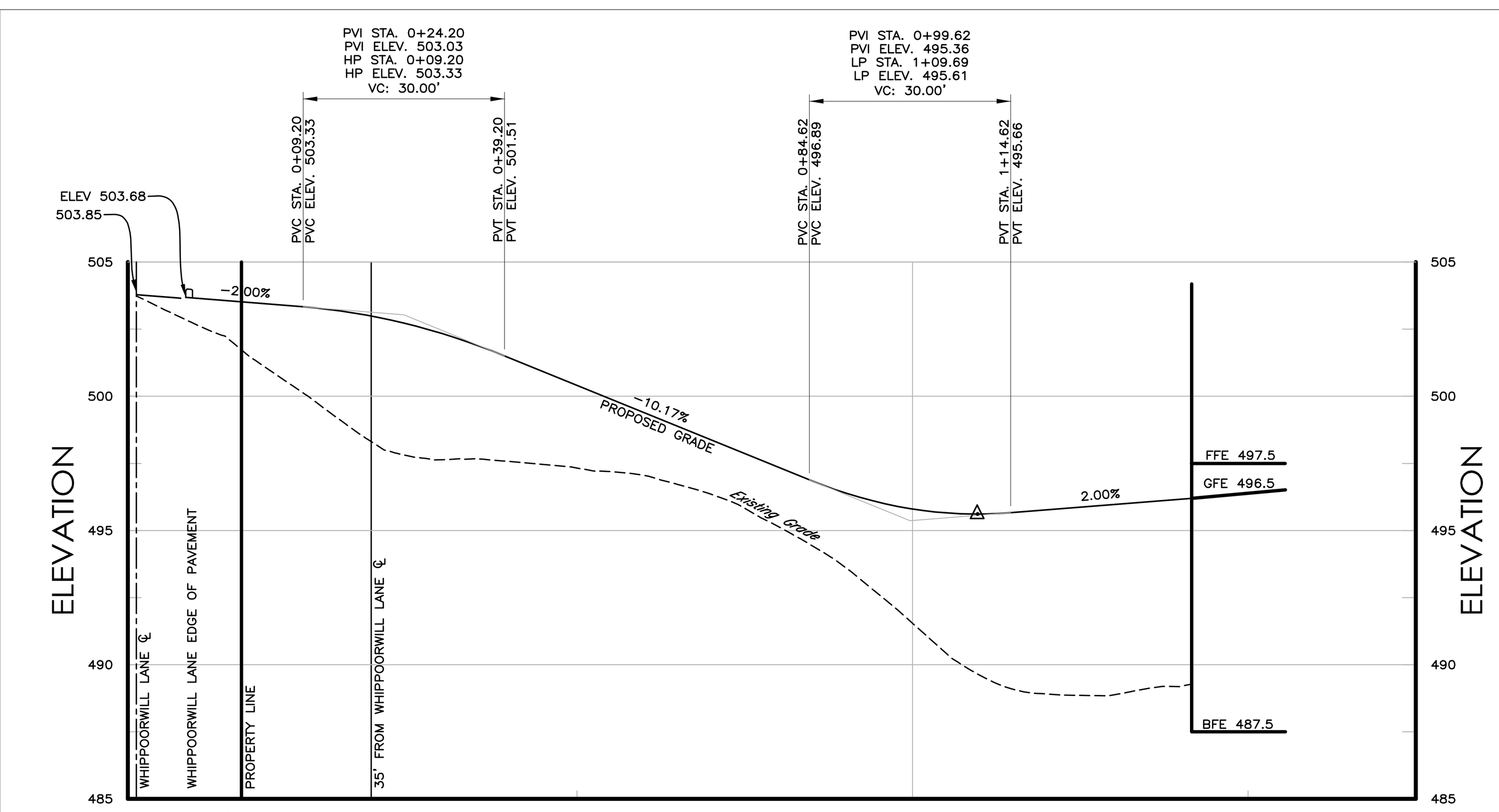
SIZE	NAME/TYPE	QTY
6"	B. BIRCH	2
6"	MAPLE	1
6"	OAK	1
8"	B. BIRCH	3
8"	MAPLE	4
8"	TULIP	1
10"	B. BIRCH	2
10"	PINE	1
10"	TULIP	1
12"	MAPLE	4
12"	TULIP	1
16"	TULIP	1
18"	B. BIRCH	2
18"	MAPLE	1
18"	TULIP	1
20"	TULIP	2
22"	B. BIRCH	1
22"	TULIP	1
24"	MAPLE	1
24"	TULIP	3
26"	TULIP	4
28"	MAPLE	1
28"	TULIP	1
30"	TULIP	2
34"	MAPLE	1
38"	TULIP	2
	TREE	45

TREE NOTE:

1. A TOTAL OF FORTY FIVE (45) TREES SHALL BE REMOVED ON THIS APPLICATION.

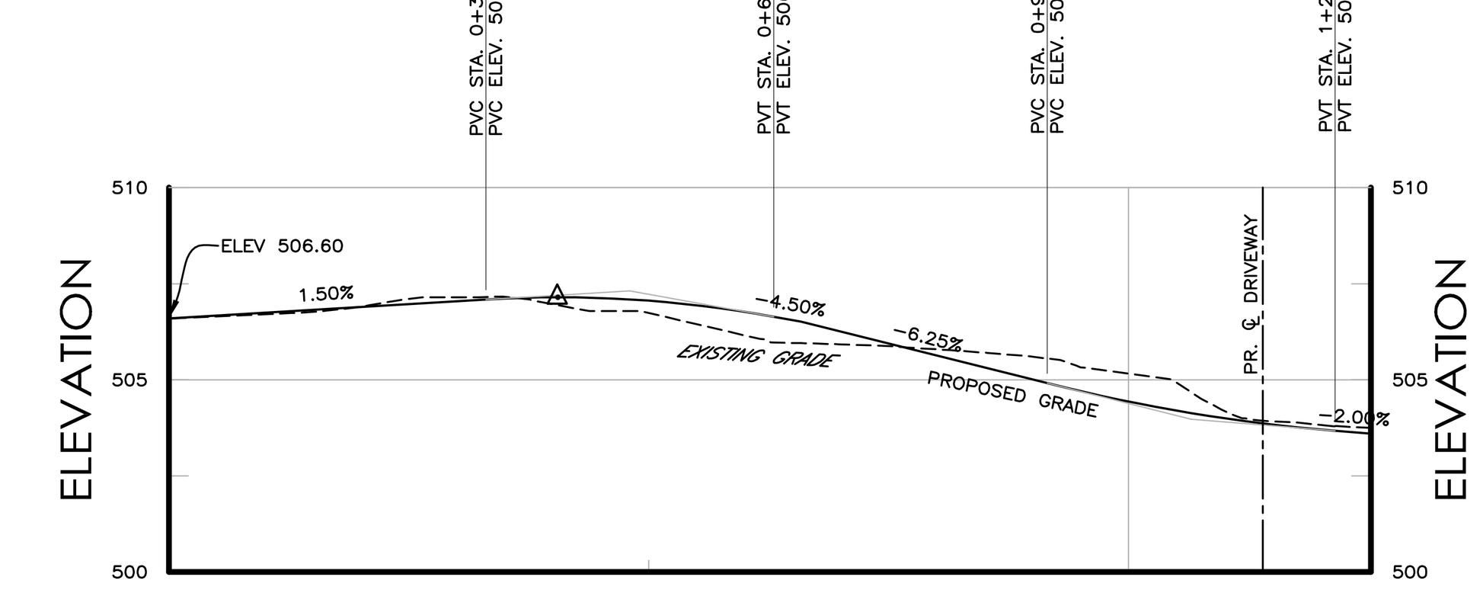
ZONING TABLE

ZONE:	ONE FAMILY RESIDENCE DISTRICT ZONE 'R-2A'	
TOTAL LOT AREA:		1.28 AC
	REQUIRED/ PERMITTED	PROPOSED
MINIMUM LOT AREA:	2 ACRES	1.28 ACRES
FRONT YARD SETBACK	50 FT.	50.6 FT.
SIDE YARD SETBACK	30 FT.	55.9 FT.
REAR YARD SETBACK	50 FT.	106.6 FT.
MAXIMUM HEIGHT	30 FT.	30 FT.
MAXIMUM BUILDING COVERAGE	8%	3.77%



PROPOSED DRIVEWAY PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



PR. WHIPPOORWILL LANE PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOL I	1.000	1.000	24832.73 Sq. Ft.	363.16 Cu. Yd.	1187.24 Cu. Yd.	824.08 Cu. Yd.<Fill>
Totals			24832.73 Sq. Ft.	363.16 Cu. Yd.	1187.24 Cu. Yd.	824.08 Cu. Yd.<Fill>

*CALCULATION INCLUDES MATERIAL TO BE EXCAVATED FROM THE PROPOSED RESIDENCE AND THE PROPOSED STORMWATER DETENTION SYSTEM.

FIRE DISTRICT: ARMONK FD

SCHOOL DISTRICT: BYRAM HILLS

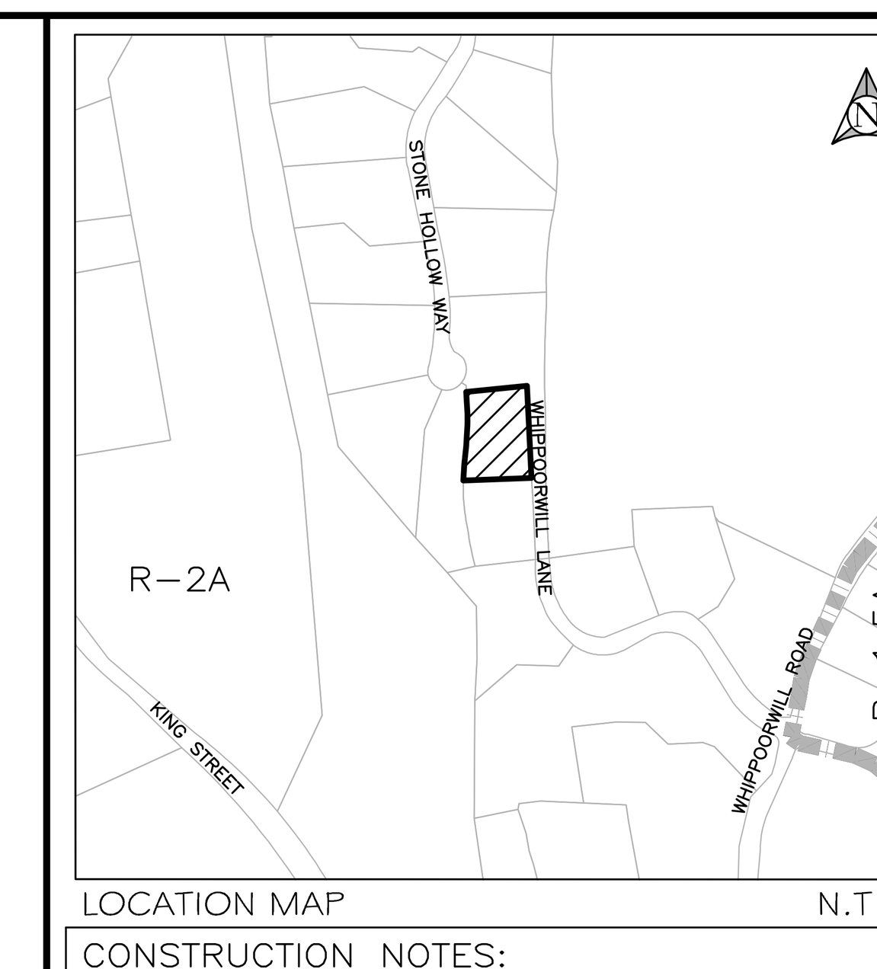
WATER DISTRICT: NORTH CASTLE WD#5

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

____________DATE: ________
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:

____________DATE: ________
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS



LOCATION MAP N.T.S.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES: SEWER, WATER, GAS, ELECTRICAL, ETC. PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 753 (FORMERLY CODE 53) PRIOR TO THE START OF CONSTRUCTION.
2. THE INSTALLATION OF WATER AND SEWER SHALL BE INSPECTED UNDER THE DIRECTION OF A N.Y. STATE LICENSED PROFESSIONAL ENGINEER.
3. EROSION AND SEDIMENT CONTROL MEASURES, SHALL BE REQUIRED AS INDICATED ON THIS PLAN OR THE EROSION CONTROL PLAN OR AS DIRECTED BY THE GOVERNING AGENCY, IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS" (BLUE BOOK).
4. AS BUILT PLANS IF REQUIRED, SHALL BE CERTIFIED BY A N.Y. STATE LICENSED SURVEYOR OR PROFESSIONAL ENGINEER.
5. ALL PROPERTY DISTURBED IN THE RIGHT-OF-WAY OR ON PRIVATE LANDS, SHALL BE RESTORED TO ACCEPTABLE CONDITIONS, AS REQUIRED BY THE GOVERNING AGENCY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION.
7. THE ROAD AND UTILITIES SHALL BE STAKED IN THE FIELD BY A NEW YORK STATE LICENSED SURVEYOR OR ENGINEER.
8. UNDERGROUND UTILITIES: GAS, ELECTRIC, CABLE, TELEPHONE, ETC. SHALL BE AS REQUIRED BY THE GOVERNING AGENCY AND THE APPROPRIATE UTILITY COMPANY.
9. ALL PROPOSED OR DISTURBED SLOPES, 1H:2V OR GREATER SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET.
10. IN LIEU OF BLASTING, ROCK RIPPING WILL BE USED WHEREVER POSSIBLE. IF BLASTING IS REQUIRED, BLASTING WILL OCCUR IN ACCORDANCE WITH REGULATIONS AND STANDARDS PRESCRIBED BY THE GOVERNING AGENCY. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS IF BLASTING IS REQUIRED.
11. NO REPRESENTATION OF THE SUB-SURFACE SOIL CONDITIONS ON THIS SITE ARE MADE OR IMPLIED. IT IS THE DEVELOPER/CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL IMPROVEMENTS ARE PLACED ON SOIL WITH A SUITABLE BEARING CAPACITY.
12. OVERNIGHT EXCAVATIONS WILL NOT BE PERMITTED.

CONSTRUCTION SEQUENCE:

1. THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED IN ONE PHASE. THE CONSTRUCTION WILL BE IN A SEQUENCE THAT WILL MINIMIZE THE POTENTIAL FOR EROSION. CONSTRUCTION IS SCHEDULED TO BEGIN IN SPRING OF 2024. THE GENERAL SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:
2. SURVEY AND STAKE LIMITS OF DISTURBANCE AND EROSION CONTROL INSTALLATION.
3. INSTALL EROSION CONTROLS (ANTI-TRACKING PAD, SILT FENCE, TEMPORARY SOIL STOCKPILE) AS SHOWN ON THE EROSION CONTROL PLAN AND PER THE RESPECTIVE EROSION CONTROL DETAILS.
4. STRIP TOPSOIL AND ROUGH GRADING. NOTE THAT DISTURBED SOIL THAT WILL NOT BE WORKED FOR A PERIOD GREATER THAN 14 DAYS MUST BE STABILIZED. STABILIZATION MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS.
5. EXCAVATE FOR PROPOSED FOOTINGS/FOUNDATION. HOUSE FRAMING AND SUPERSTRUCTURE IS CONSTRUCTED.
6. EXCAVATE AND INSTALL SUBSURFACE UTILITIES; WATER SERVICE, ELECTRIC TELEPHONE/CABLE/DRAINAGE. SEPTIC SYSTEM SHALL BE STAKED AND CONSTRUCTED.
7. PROTECT SEPTIC SYSTEM DURING CONSTRUCTION.
8. FINAL GRADING, SEEDING, SODDING, AND OTHER SOIL STABILIZING LANDSCAPING FOR FINAL SITE STABILIZATION.
9. REMOVE EROSION CONTROL: SILT FENCE AND ANTI-TRACKING PAD. DISCARD EROSION CONTROL DEVICES IN AN APPROPRIATE MANNER.

NOTES

– WALLS GREATER THAN FOUR (4) FEET IN HEIGHT SHALL BE CERTIFIED BY THE PROFESSIONAL ENGINEER PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY/COMPLETION.

SCALE: 1" = 20'

STATE OF NEW YORK · RALPH ALFONZETTI · 076215 · LICENSED PROFESSIONAL ENGINEER

ALFONZETTI ENGINEERING, P.C.
14 SMITH AVE, MT. KISCO, N.Y. 10549
914-666-9800 INFO@ALFONZETTIENG.COM

SITE DATA

OWNER/APPLICANT: MRL 11 WHIPPOORWILL LLC
SITE ADDRESS: 11 WHIPPOORWILL LANE ARMONK, NEW YORK 10504
TAX MAP #: 107.04-1-5
LOT AREA: 1.28 ACRES
ZONING: R-2A

REVISED: MARCH 25, 2024
REVISED: FEBRUARY 21, 2024

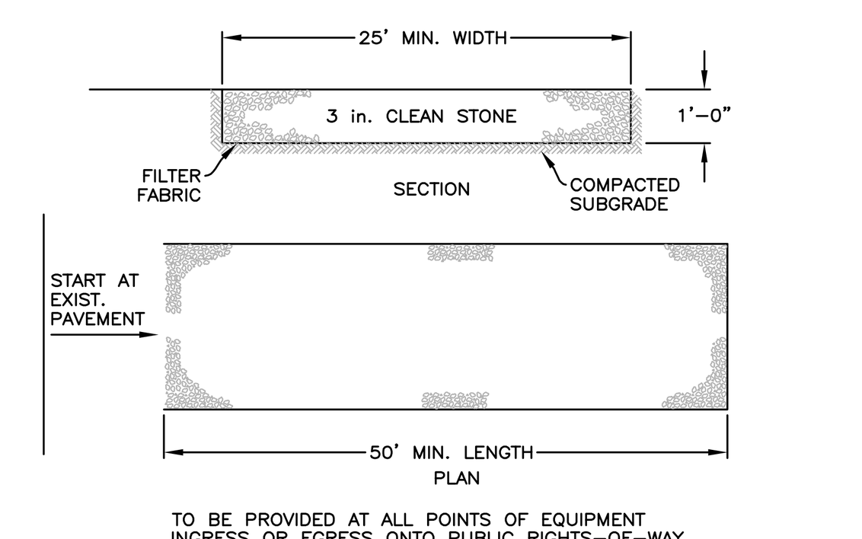
DRAWING: SITE PLAN
JUNE 12, 2023

SHEET: 01 OF 02

PROJECT: 11 WHIPPOORWILL LANE
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD OR UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE INSTALLED AT THE LOCATIONS NOTED ON THE EROSION CONTROL PLAN. ADDITIONAL SILT FENCE MAY BE REQUIRED BY THE ENGINEER IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN EFFECTIVE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
3. INSTALL ANTI–TRACKING PAD AT ALL CONSTRUCTION ENTRANCES. ANTI–TRACKING PAD SHALL BE 2"–3" DIAMETER CRUSHED STONE 6" DEEP.
4. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT REMOVING DEVICES SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND IMMEDIATELY AFTER EACH RAINFALL TO INSURE PROPER OPERATION AS DESIGNED. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
5. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 14 DAYS OR OTHERWISE STABILIZED. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL STOCKPILE AREAS WITH STAKED HAYBALES OR SILT FENCE.
6. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED, MULCHED AND STABILIZED WITH STAKED TOBACCO NETTING, OR EROSION BLANKET AS NOTED, UNLESS OTHERWISE DIRECTED.
7. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
8. ALL DISTURBED AREAS WITHIN 500 FEET OF A BUILDING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL. A WATERING TRUCK WILL BE USED IN DRY SEASON TO WET DOWN DUST AREAS.
9. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
10. ALL CATCH BASINS AND DRAIN INLETS ARE TO BE PROTECTED WITH SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
11. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON THE HIGH SIDE OF EXCAVATION SO RUNOFF IS DIRECTED AWAY FROM TRENCH. AFTER BACK–FILLING, AREA IS TO BE TOPSOILED, SEEDED AND MULCHED.
12. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
13. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED BY THE CONTRACTOR. IN ADDITION TO ALL SPECIFIED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.
14. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS" (BLUE BOOK).

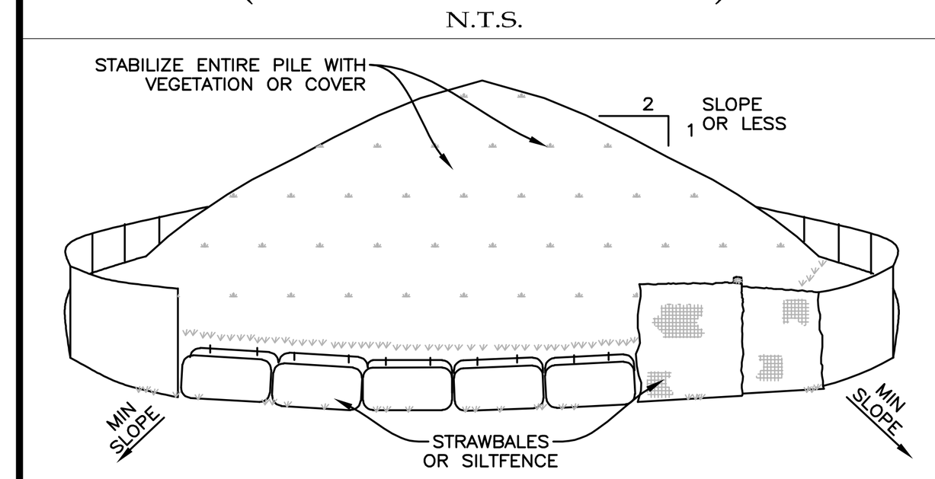


TO BE PROVIDED AT ALL POINTS OF EQUIPMENT INGRESS OR EGRESS ONTO PUBLIC RIGHTS–OF–WAY.

INSTALLATION NOTES

1. STONE SIZE – USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – 25 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE (ANTI-TRACKING PAD)
N.T.S.



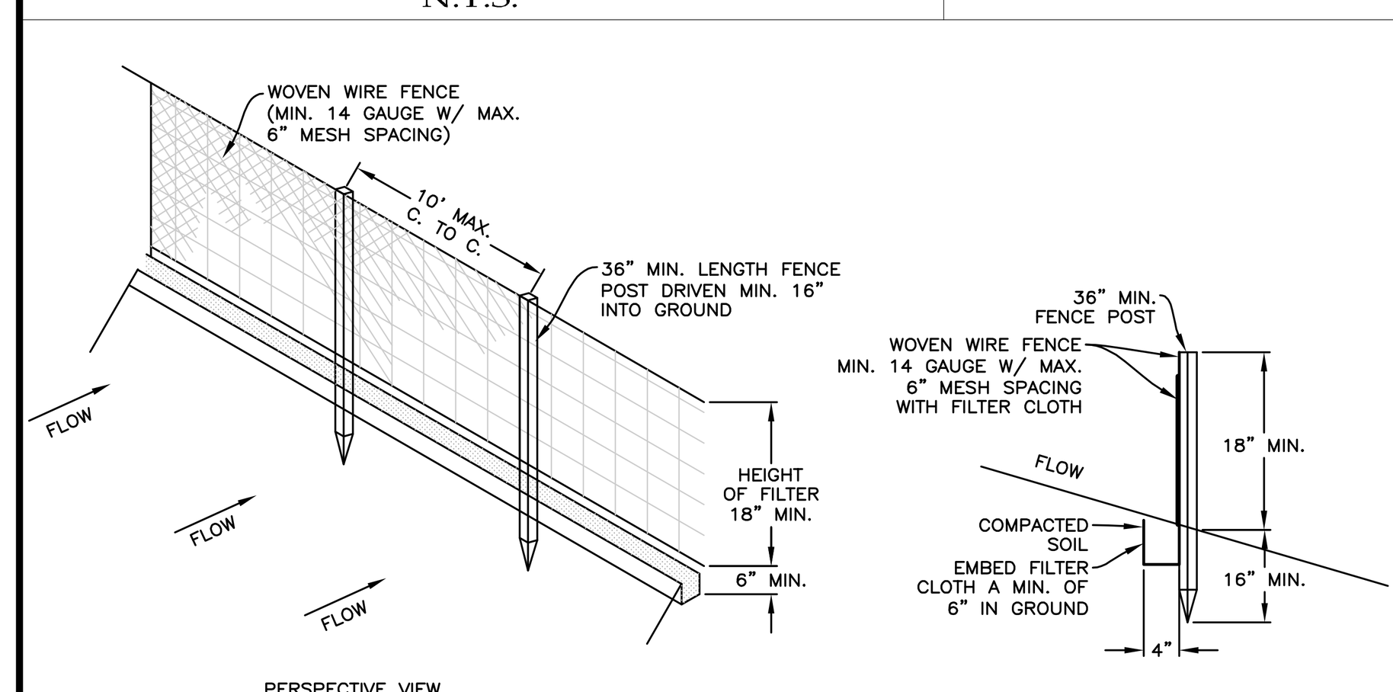
TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON–VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

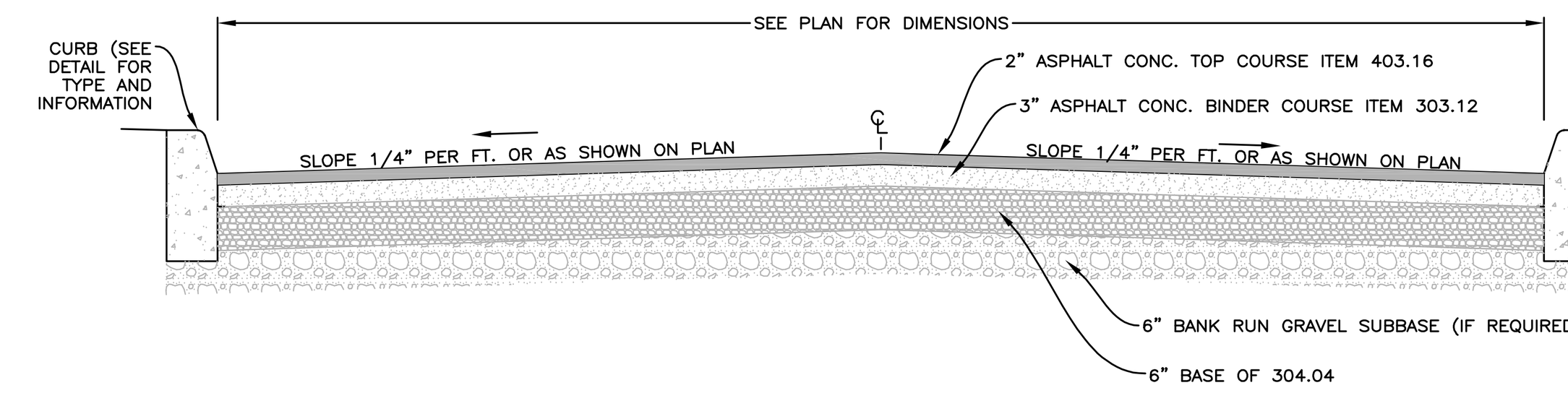
TEMPORARY MATERIAL STOCKPILE
N.T.S.



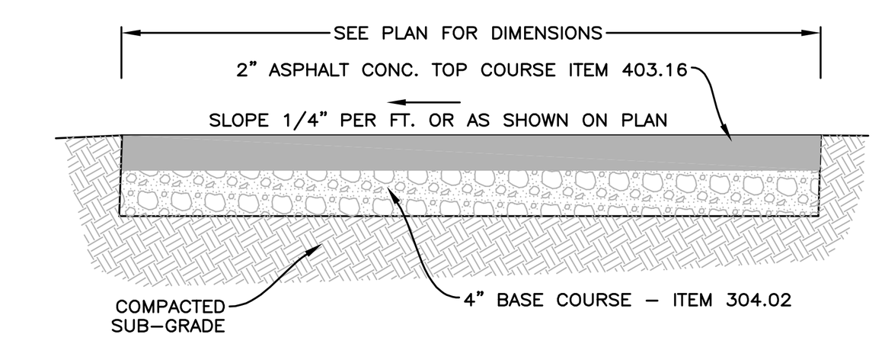
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH TIES OR STAPLES. POST SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
N.T.S.



TYPICAL ROAD SECTION
N.T.S.



DRIVEWAY SECTION
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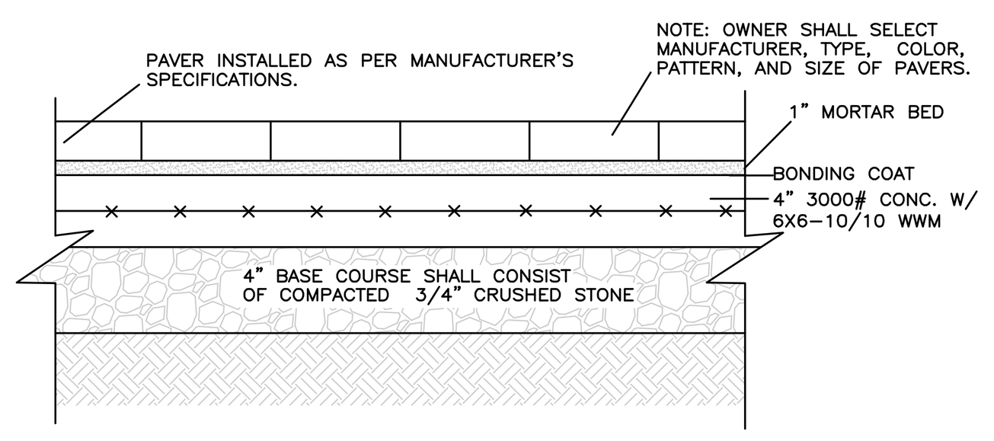

WALKWAY DETAIL
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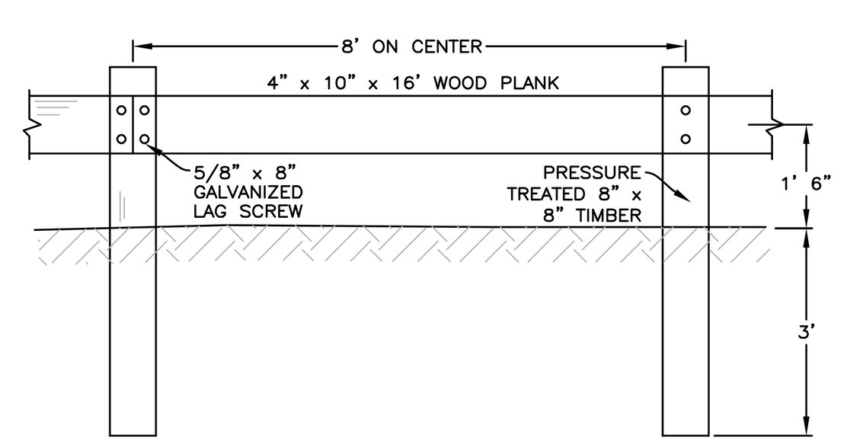
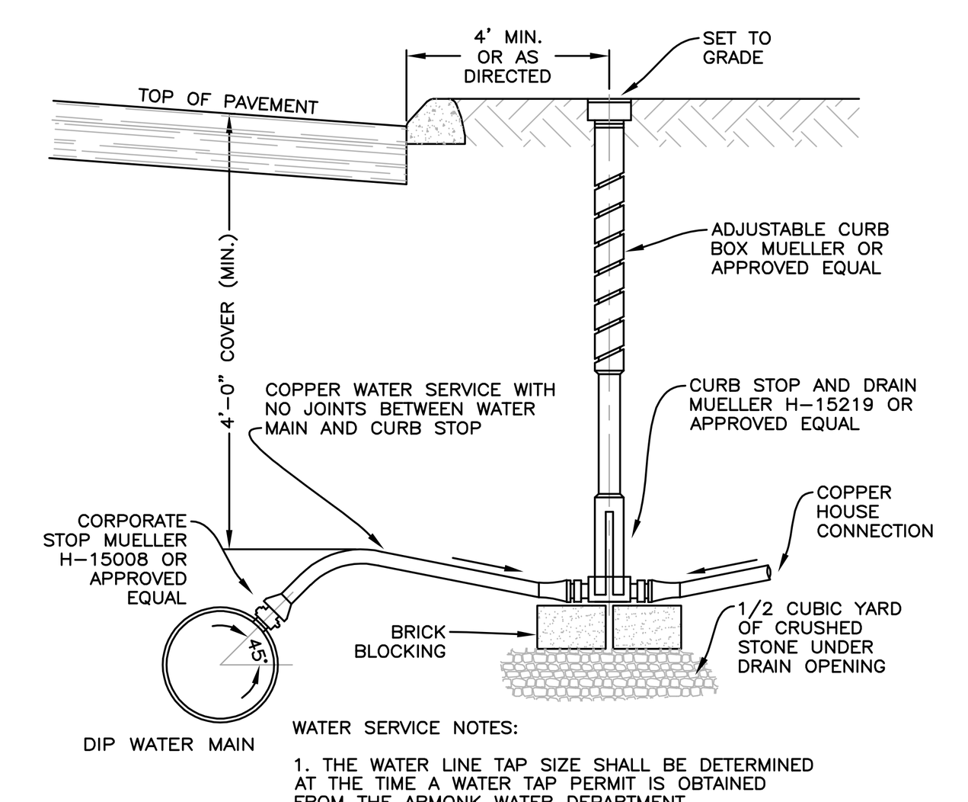
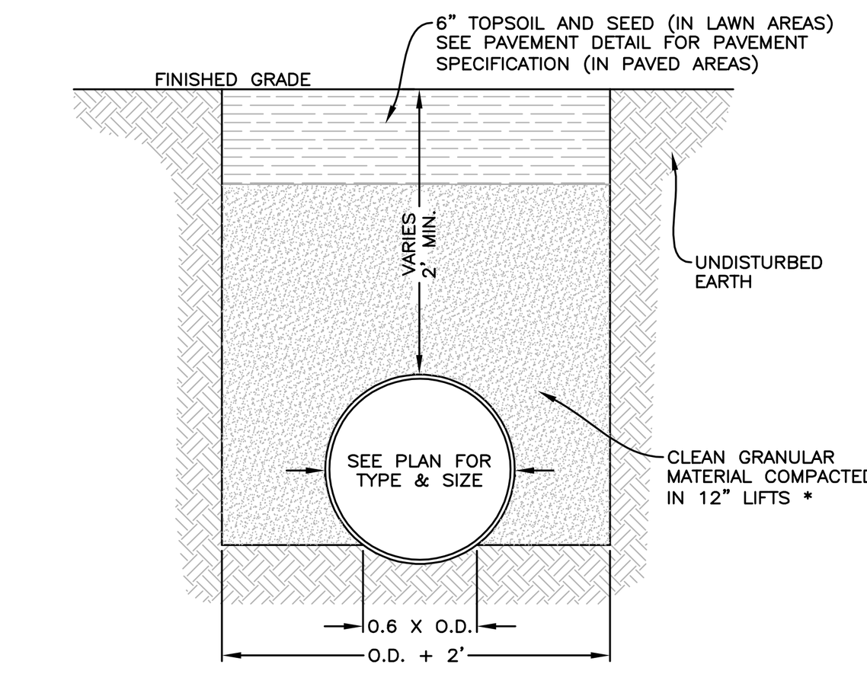


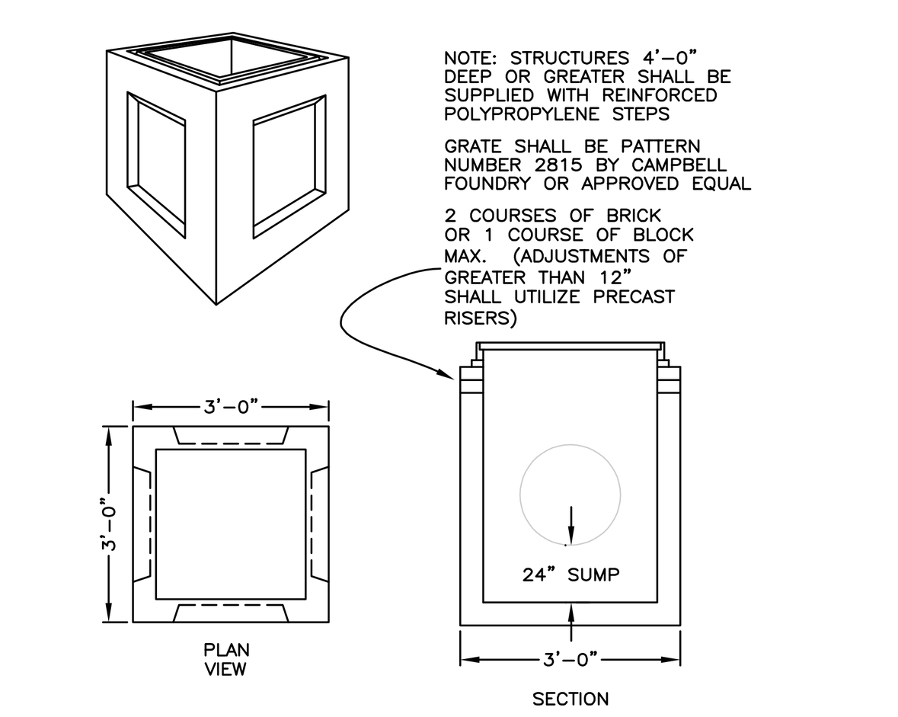
GUIDE RAIL
N.T.S.



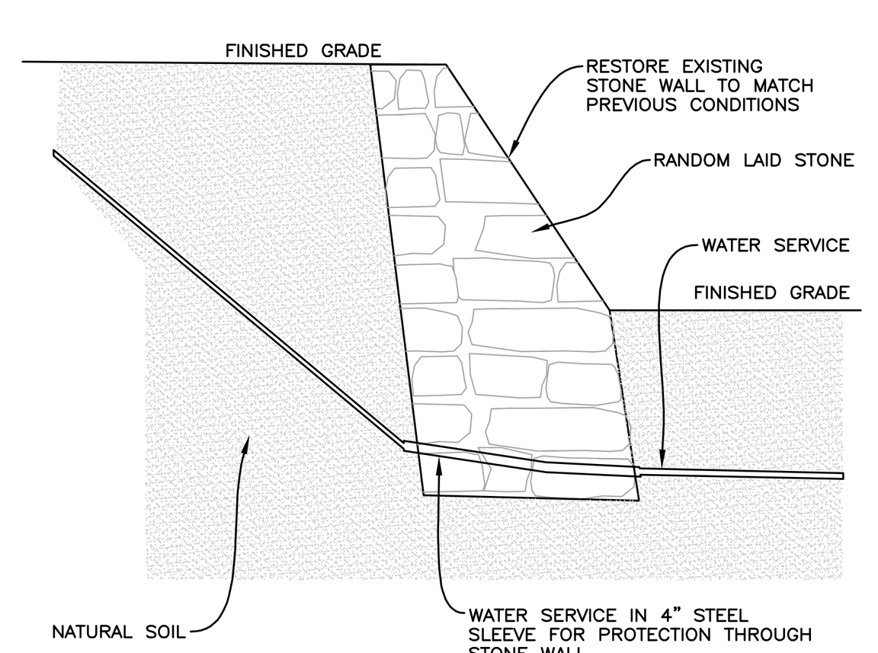
WATER SERVICE CONNECTION DETAIL
N.T.S.



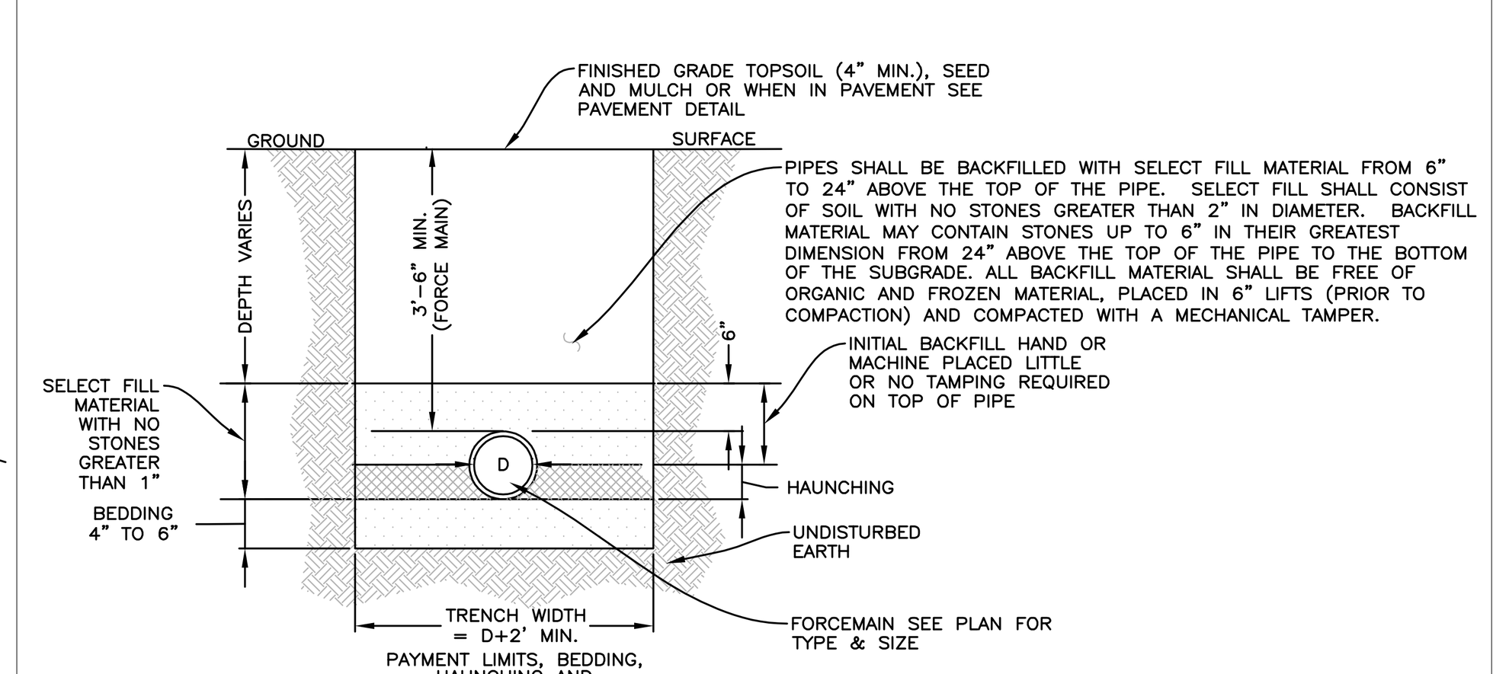
DRAIN PIPE TRENCH DETAIL
N.T.S.



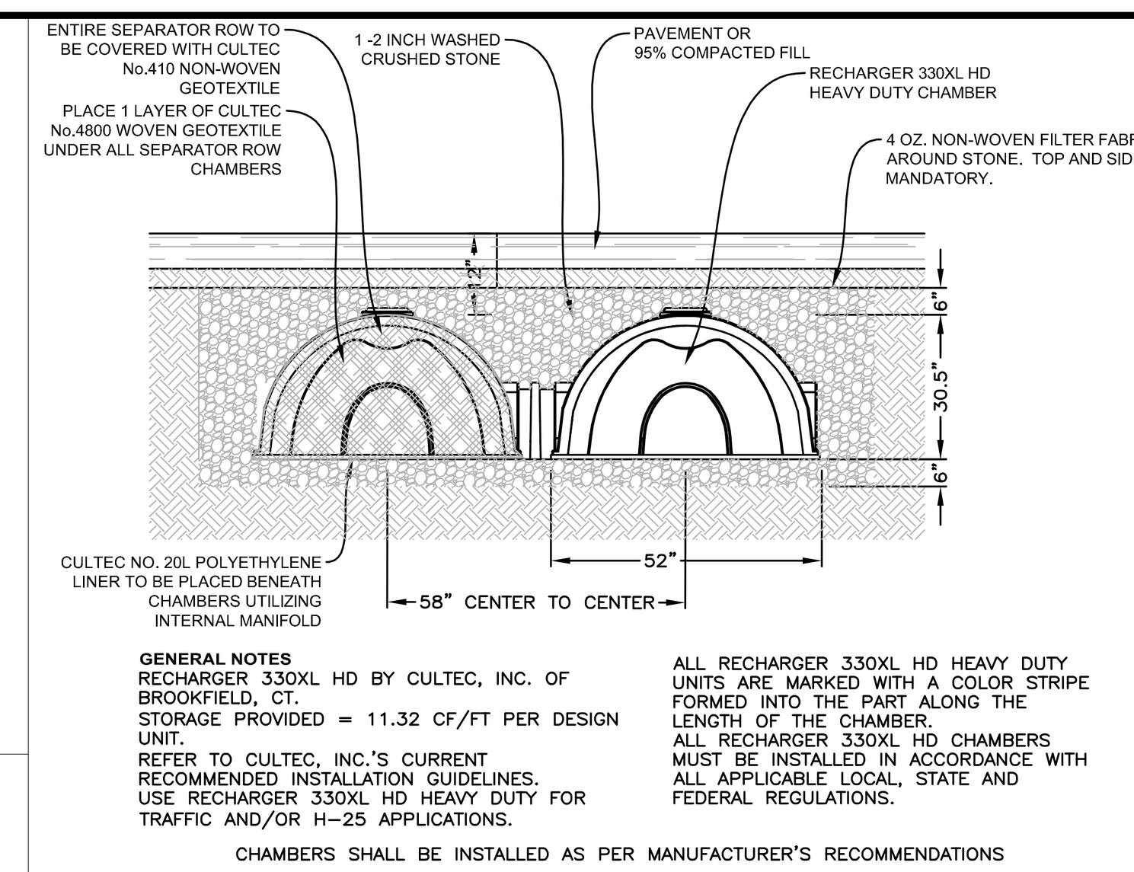
YARD DRAIN
N.T.S.



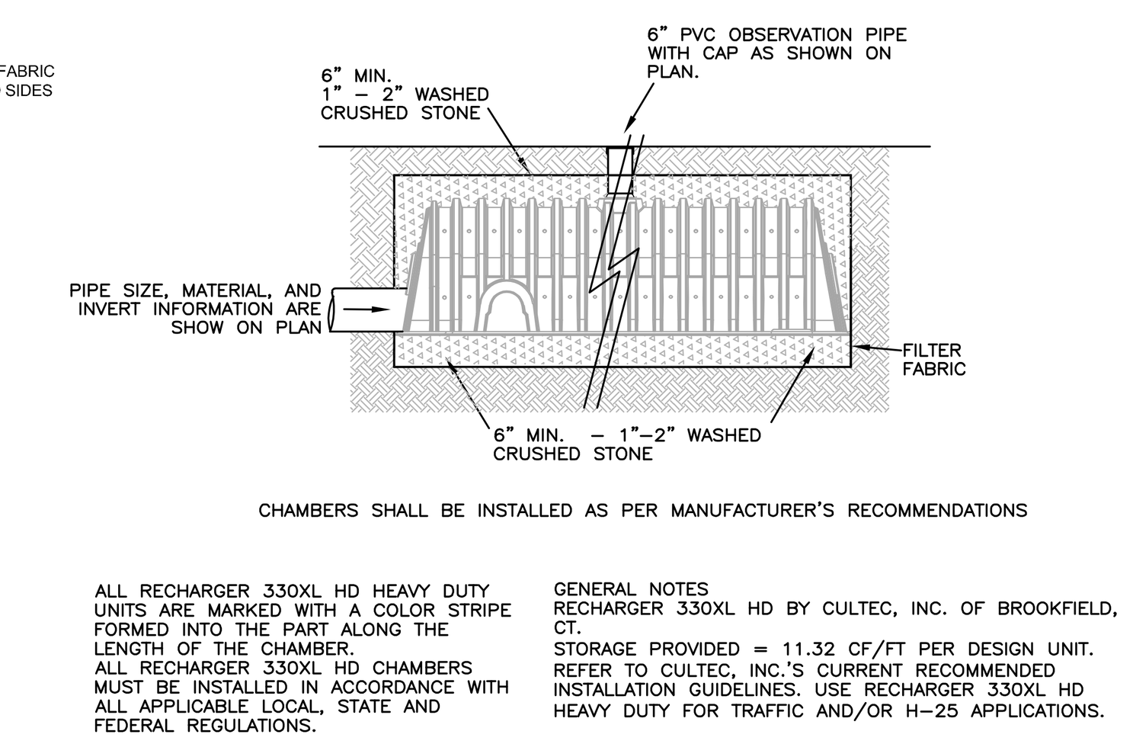
WATER SERVICE THROUGH EXISTING STONE WALL
N.T.S.



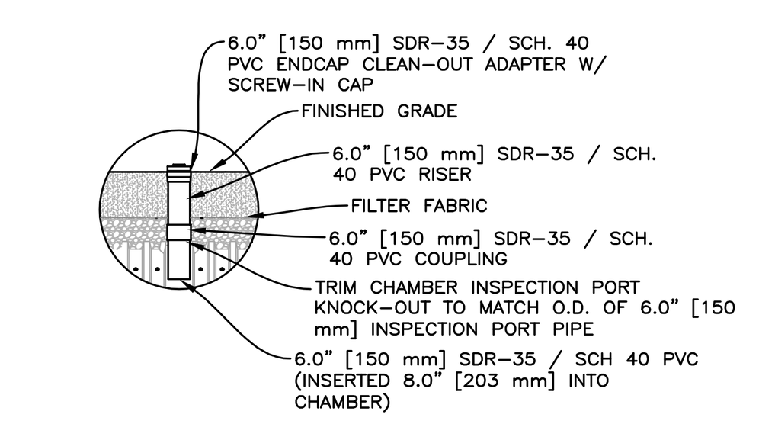
FORCEMAIN TRENCH DETAIL
N.T.S.



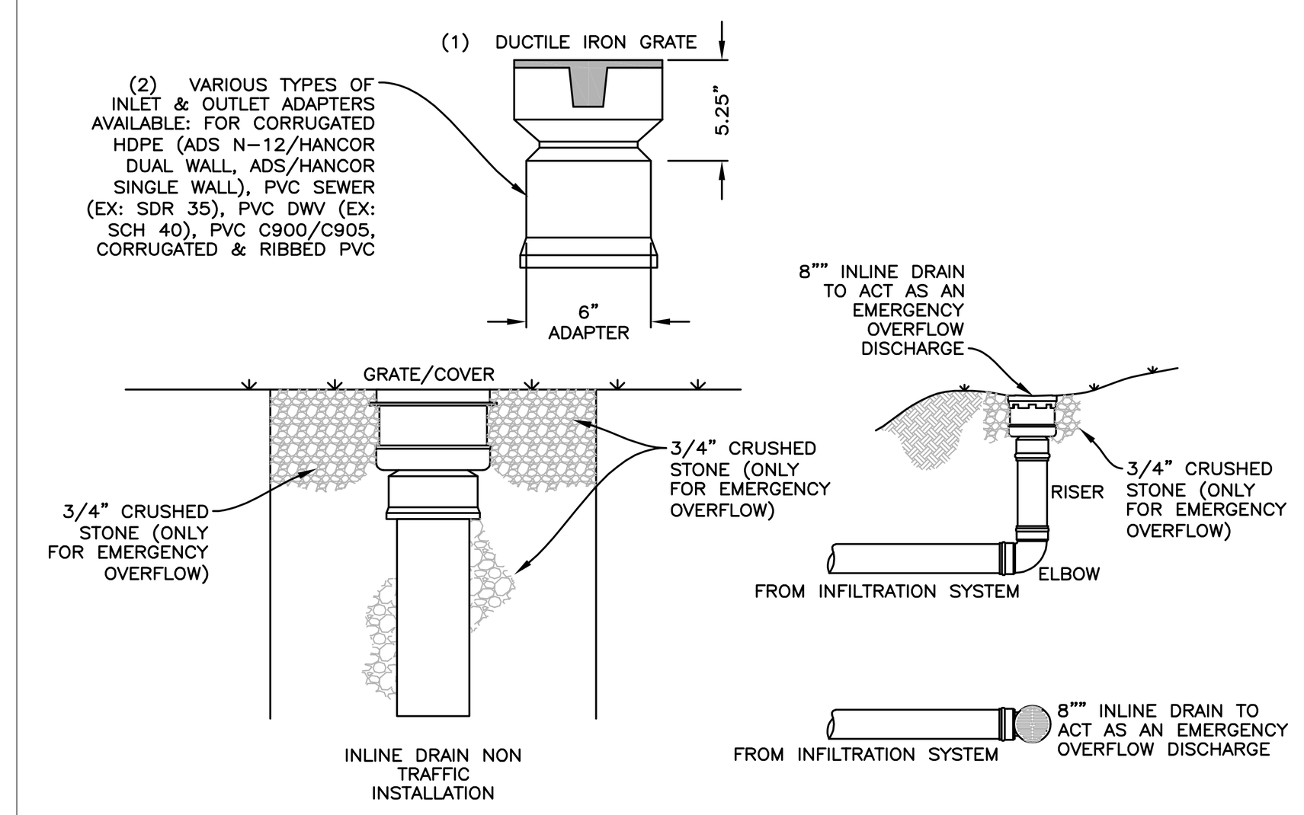
STORMWATER CHAMBER CROSS SECTION
N.T.S.



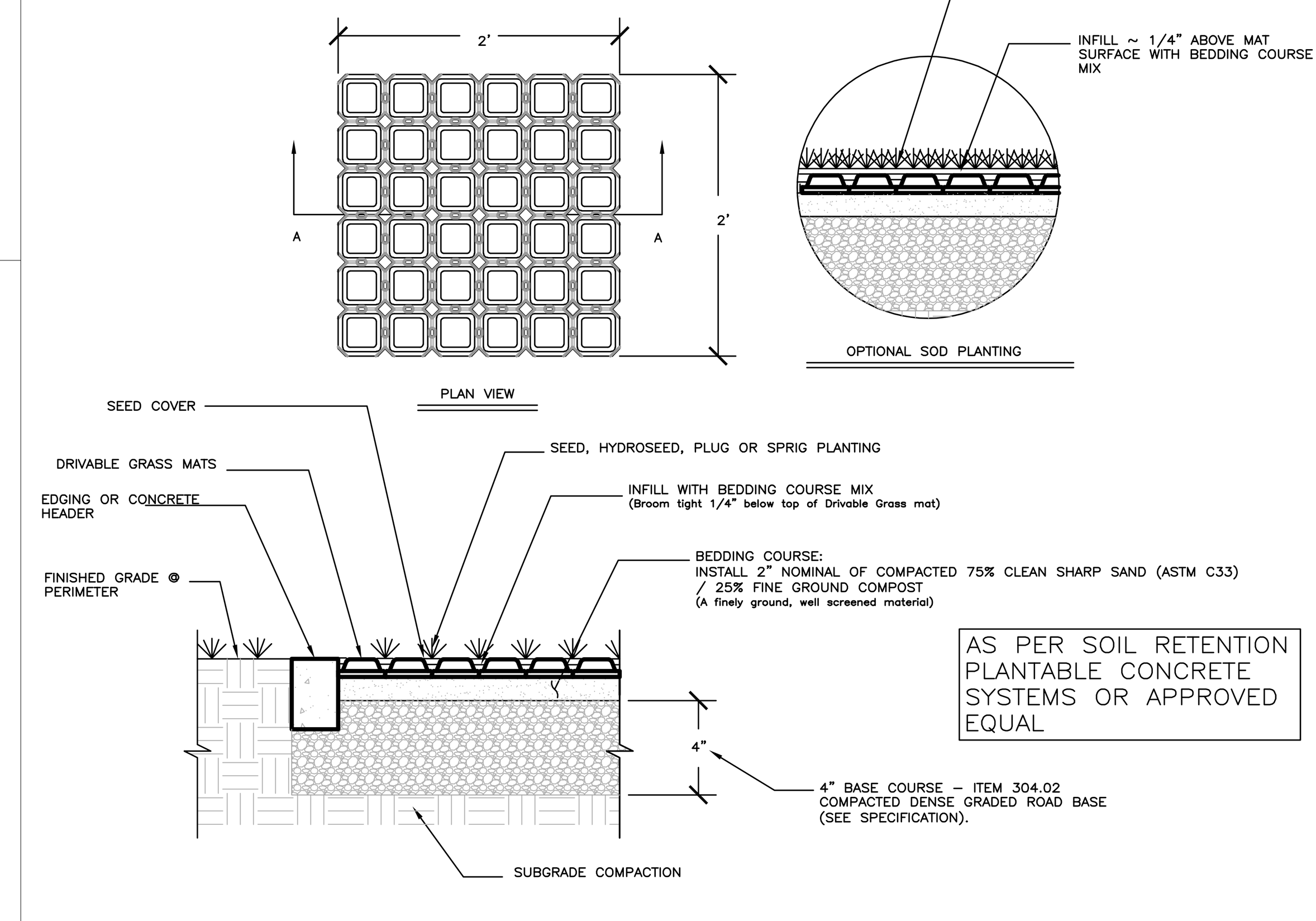
STORMWATER CHAMBER INSTALLATION
N.T.S.



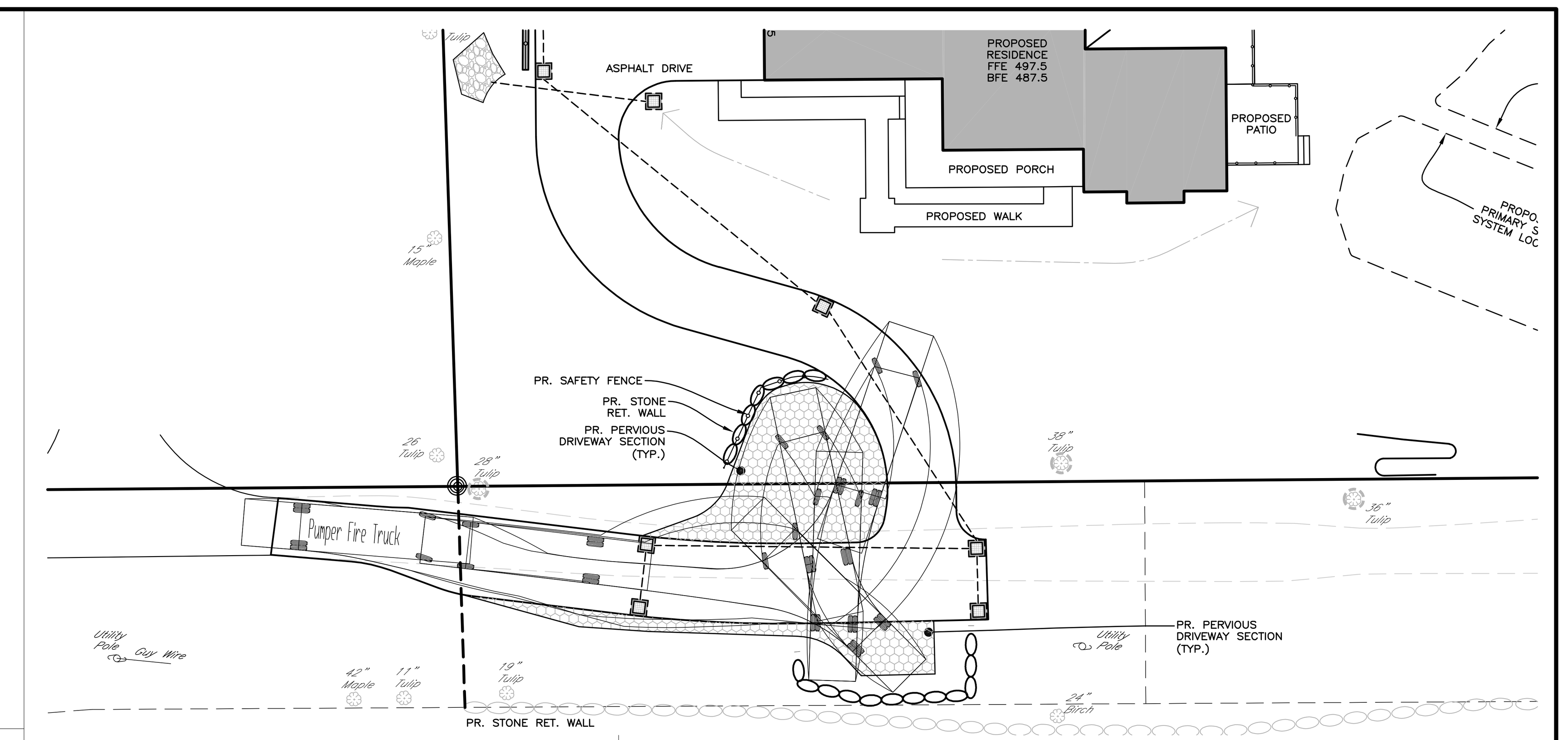
'CULTEC' CHAMBERS INSPECTION PORT NON-TRAFFIC APPLICATION
N.T.S



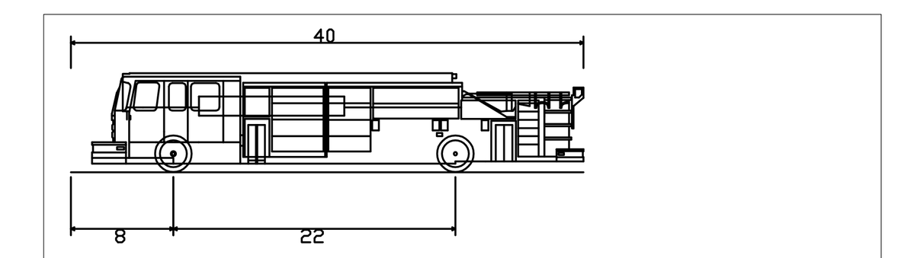
EMERGENCY OVERFLOW DISCHARGE
N.T.S.



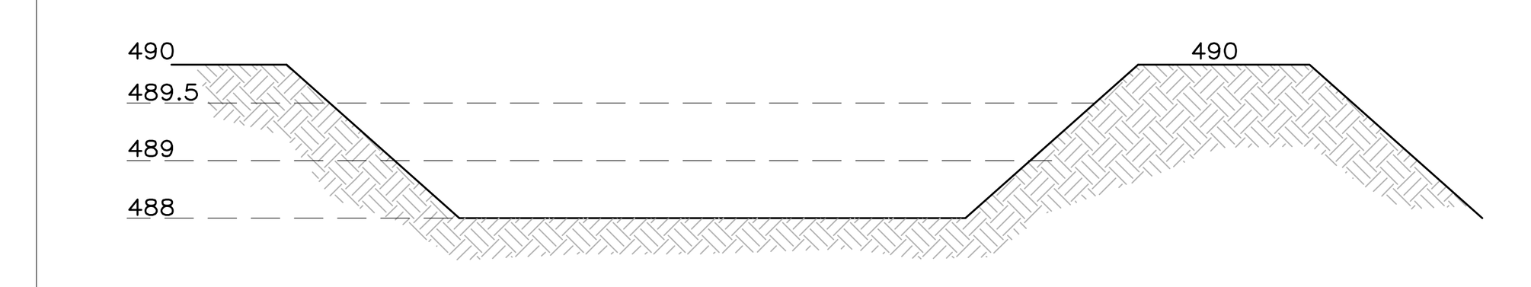
PERVIOUS DRIVEWAY SECTION
N.T.S.



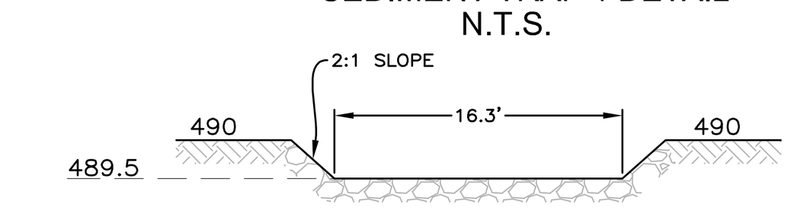
FIRE TRUCK MANEUVERING PLAN



Pumper Fire Truck	
Overall Length	40.000ft
Overall Width	8.167ft
Overall Body Height	7.745ft
Min Body Ground Clearance	0.656ft
Track Width	8.167ft
Lock-to-lock time	5.00s
Max Wheel Angle	45.00°



SEDIMENT TRAP 1 DETAIL
N.T.S.



SEDIMENT TRAP STONE OUTLET DETAIL
N.T.S.

SEDIMENT TRAP 1

	REQUIRED	PROPOSED
TYPE OF TRAP		STONE OUTLET SEDIMENT TRAP
DRAINAGE AREA	5 AC MAX.	0.29 AC
STORAGE REQUIRED	3600 CF/AC	1,044 CF
OUTLET LENGTH	4 TIMES IN LENGTH PER DRAINAGE AREA	4.0 FT
STORAGE DEPTH BELOW OUTLET	3600 CF/AC	1,054 CF

SEDIMENT TRAP 1 SIZED UTILIZING HYDROCAD SOFTWARE

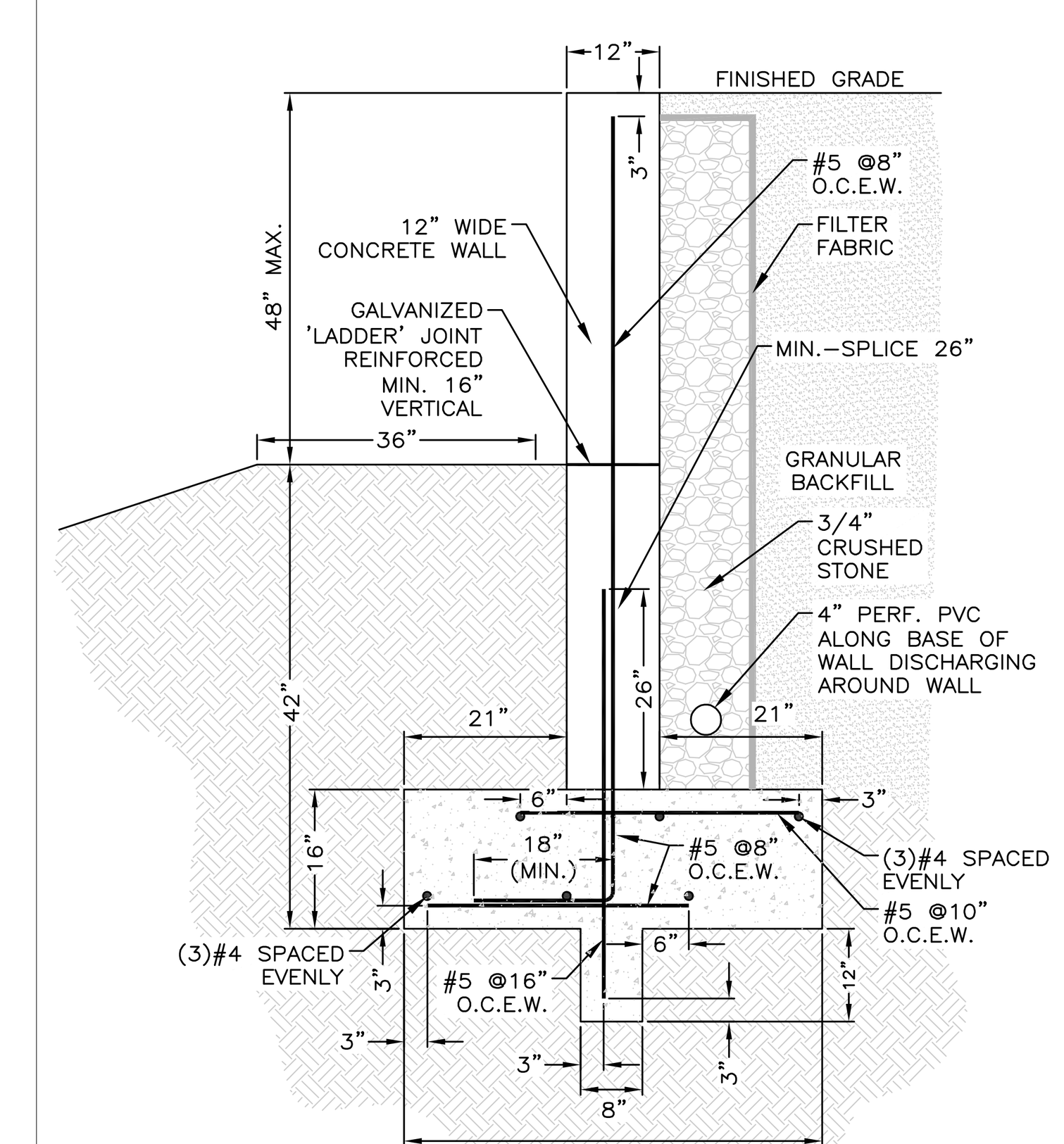
ELEVATION (FEET)	SURF. AREA (SQ.FT.)	INC. STORAGE (CU-FT)	CUM. STORE (CU-FT)
488.0	465	0	0
490.0	589	1054	1054

SEDIMENT TRAP 2

	REQUIRED	PROPOSED
TYPE OF TRAP		STONE OUTLET SEDIMENT TRAP
DRAINAGE AREA	5 AC MAX.	0.34 AC
STORAGE REQUIRED	3600 CF/AC	1,224 CF
OUTLET LENGTH	4 TIMES IN LENGTH PER DRAINAGE AREA	4.0 FT
STORAGE DEPTH BELOW OUTLET	3600 CF/AC	1,282 CF

SEDIMENT TRAP 2 SIZED UTILIZING HYDROCAD SOFTWARE

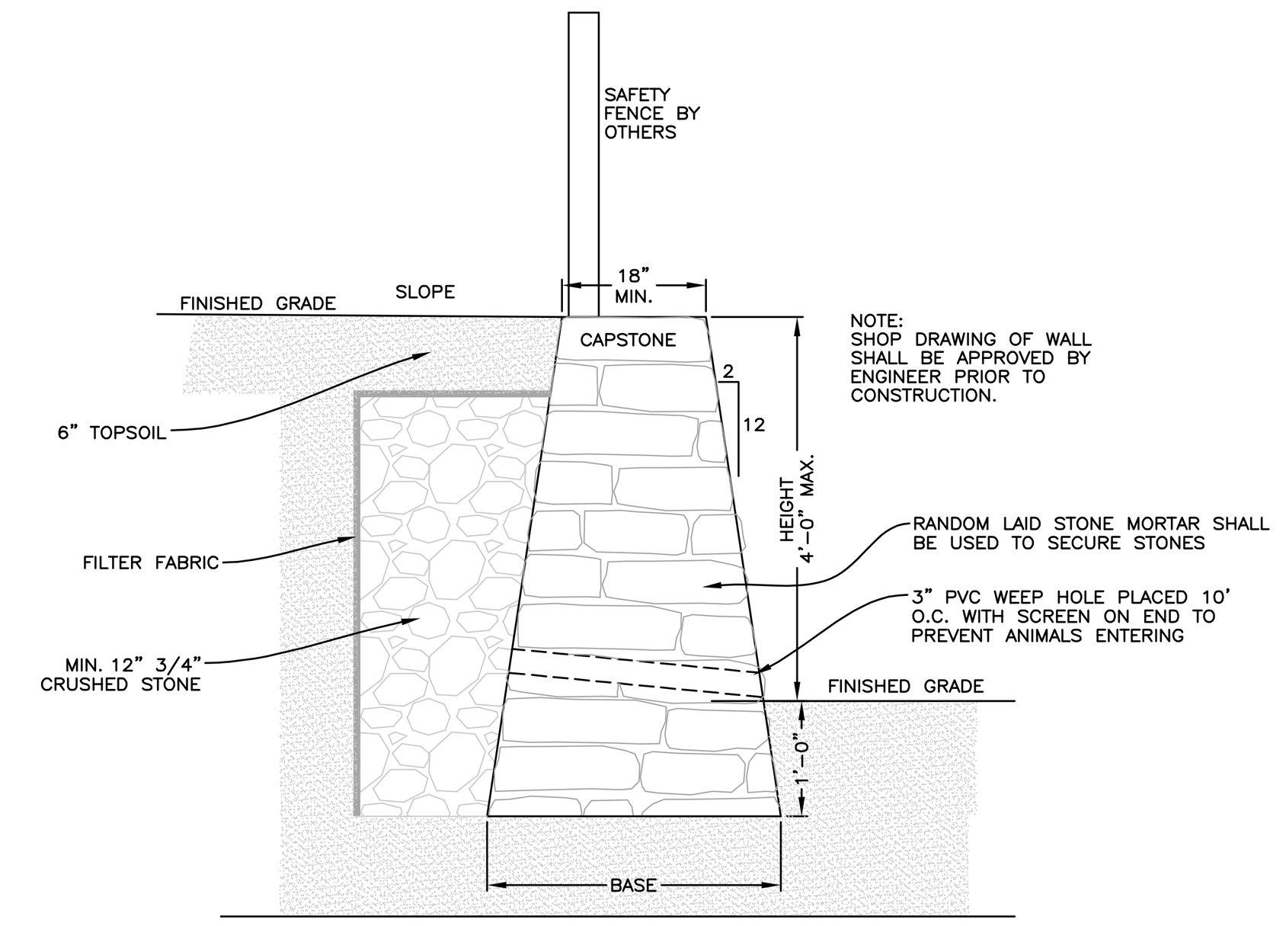
ELEVATION (FEET)	SURF. AREA (SQ.FT.)	INC. STORAGE (CU-FT)	CUM. STORE (CU-FT)
484.0	565	0	0
486.0	717	1282	1282



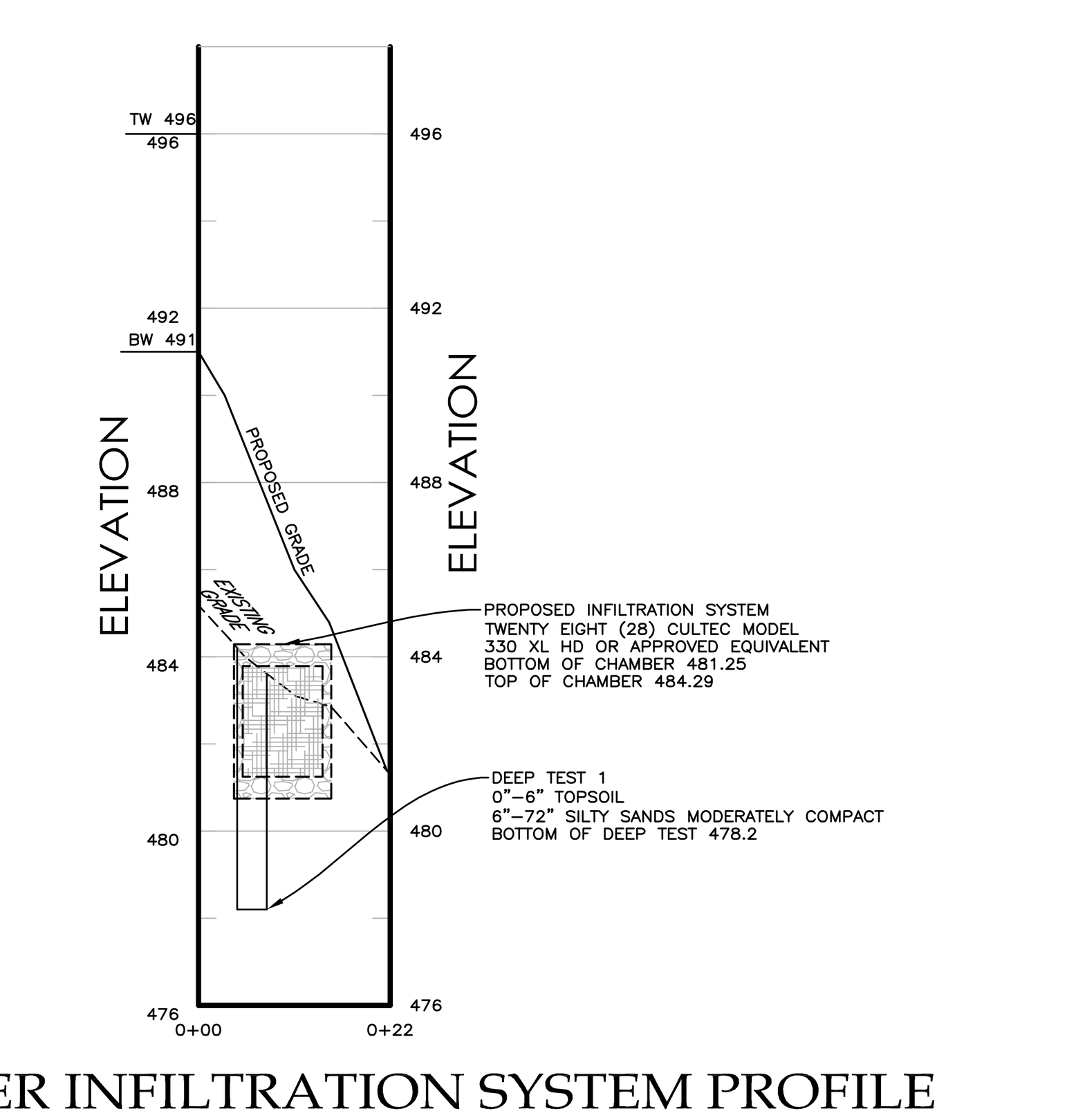
WALL NOTES:

1. ALL CONCRETE SHALL BE MINIMUM 3000 PSI AT 28 DAYS.
2. ALL REINFORCING SHALL BE GRADE 60, DEFORMED REINFORCING BARS.
3. EXPANSION JOINTS SHALL BE PLACED EVERY 20' ON CENTER.
4. ALL EXPOSED EDGES SHALL BE CHAMFERED.
5. ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR–ENTRAINED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING TO MAINTAIN PLUMBNESS AND STABILITY DURING CONSTRUCTION AND CURING.
7. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND ORDINANCES.

RETAINING WALL DETAIL
N.T.S.



TYPICAL STONE RETAINING WALL
N.T.S.



STORMWATER INFILTRATION SYSTEM PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

FIRE DISTRICT: ARMONK FD

SCHOOL DISTRICT: BYRAM HILLS

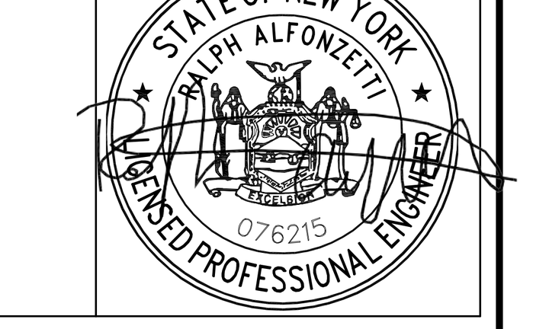
WATER DISTRICT: NORTH CASTLE WD#5

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

______________________DATE: ________
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:

______________________DATE: ________
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS



ALFONZETTI ENGINEERING, P.C.
14 SMITH AVE, MT. KISCO, N.Y. 10549
914-666-9800 INFO@ALFONZETTIENG.COM

SITE DATA

OWNER/APPLICANT:
MRL 11 WHIPPOORWILL LLC

SITE ADDRESS:
11 WHIPPOORWILL LANE
ARMONK, NEW YORK 10504

TAX MAP #: 107.04–1–5

LOT AREA: 1.28 ACRES

ZONING: R–2A

REVISED: MARCH 25, 2024
REVISED: FEBRUARY 21, 2024

DRAWING:
SITE DETAILS
JUNE 12, 2023

SHEET: 02 OF 02

PROJECT:
11 WHIPPOORWILL LANE
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NEW YORK

ALFONZETTI ENGINEERING, P.C.
14 Smith Ave., Mount Kisco, N.Y. 10549

(914) 666-9800 Info@AlfonzettiEng.com

Stormwater Report

for

MRL Builders
11 Whippoorwill Lane
Town of North Castle

June 30, 2023
Revised: March 25, 2024

ALFONZETTI ENGINEERING, P.C.
14 Smith Ave., Mount Kisco, N.Y. 10549

(914) 666-9800 Info@AlfonzettiEng.com

PROJECT: MRL Builders/11 Whippoorwill Lane
Town of North Castle, NY

SCOPE: Stormwater Report

DATE: June 30, 2023
Revised: March 25, 2024

Introduction:

The subject site is located at 11 Whippoorwill Lane, in the Town of North Castle, New York. The existing site consists of a vacant lot with a lot size of 1.287 acres. The applicant is proposing a new residence, driveway and septic system.

Description:

The project site consists of one lot, with property tax map identification number; 107.04-1-5.

The proposed development of this site, with approximately 27,277 s.f./0.63 acres of disturbance requires a Stormwater Pollution Prevention plan as per New York State Department of Environmental Conservation. This stormwater pollution prevention plan complies with New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Construction Activity–GP-0-20-001. This stormwater pollution prevention plan only includes Erosion and Sediment controls, as the disturbance is more than 5000 square feet and is located in the watersheds identified in Appendix D. The Town of North Castle requires stormwater mitigation and design calculations for the runoff generated by of the net increase in impervious surfaces for the 100 yr, 24-hour design storm event be analyzed.

Discussion:

Temporary Erosion Control Measures:

The following is an inventory and description of the temporary erosion control devices proposed on this site.

Silt Fence – Silt Fencing consists of a fabric barrier between supporting stakes or posts usually made of wood. The fabric is proposed to capture suspended sediments from construction runoff and also decreases the velocity of the runoff to protect off-site areas. The proposed location of the silt fence is shown on the plans along with details for installing the silt fence.

Haybales – Haybales are used in a variety of erosion control devices. At the top of an excavation, haybales are used to spread out concentrated flow to prevent erosion. Haybales are used in conjunction with silt fence to add additional protection to sensitive areas such as wetlands and water bodies. Haybales are also used in conjunction with Silt Fence to protect surrounding areas from soil stockpile erosion. The proposed location of the haybales is shown on the plans along with details.

Inlet protection – Inlet protection is used to filter runoff from non-stabilized construction sites prior to this runoff entering the drainage system.

Anti-Tracking Pad – Anti-Tracking Pads shall be installed at all construction entrances. The purpose of the Anti-Tracking Pad shall be to dislodge mud, dirt, and debris from construction vehicles prior to these vehicles leaving the construction site. This will ensure the existing roadways are kept clear of sediment. Locations and details of the Anti-Tracking Pad are shown on the plans.

Construction Sequence:

The proposed improvements are to be constructed in one phase. The construction will be in a sequence that will minimize the potential for erosion. Construction is scheduled to begin in Spring of 2024. The general sequence of construction is as follows:

- Stakeout, Erosion Control Measures, Clearing

  The initial fieldwork shall consist of surveying and staking for disturbance limits and erosion control installation. All trees to be preserved shall be marked and protected prior to the start of clearing operations. Erosion controls shall be installed as shown on the erosion control plan and as per the respective erosion control details. The tree clearing shall begin prior to the completion of the entire silt fence. Silt fence should not be installed in areas where tree clearing operations will damage silt fence. The silt fence installation will closely follow the tree clearing operations and will be complete prior to tree stump removal. Tree stump removal shall only begin following the installation of the anti-tracking pads at all the construction entrance. The areas proposed for infiltration systems shall be cordoned off and protected from heavy machinery and/or stockpiling during all time of construction.

- Earthwork

  After trees/brush/stumps and other vegetation have been removed, the rough grading operations shall begin. Initial earthwork operations involve the installation of some structural erosion control measures such as soil stockpiles. Any disturbed soil that will not be worked for a period greater than 7 days must be stabilized. Excavation for the footings/foundation shall begin.

- Grading/Drainage/Utility Installation

  As the grade nears finished form the house construction shall begin. As the house is being constructed, utilities, including drainage shall be installed. As the drainage systems are installed they shall be protected to ensure sediment does not enter them. Once land disturbing activities are complete, final grading, seeding, sodding, and other soil stabilizing landscaping may be installed.

- Removal of Erosion Control Devices

As areas are stabilized, sediment shall be removed and erosion control devices shall be discarded in an appropriate manor.

Water Quality:

The water quality volume is calculated using the following Formula from the Stormwater Design Manual:

$WQ_v = ((P)(R_v)(A))/12)$

where Rv = 0.05+0.009(I)

I = Impervious Cover (percent)

P = 90^{th} % Rainfall Event Number (Use 1.5")

A = Site Area in acres

The impervious cover was calculated for each of the watershed's tributary to a standard stormwater treatment practice and tabulated below.

NYSDEC PROPOSED WATER QUALITY VOLUME (WQv) CALCULATIONS

WATERSHED NAME	WATERSHED AREA (ACRES)	IMPERVIOUS AREA (ACRES)	PERCENT IMPERVIOUS	90% RAINFALL (INCHES)		Rv	WQv) (AC-FT)	WQv (C.F.)	25% WQv (C.F.)
PRWS1	0.204	0.181	88.7	1.50		0.95	0.02	940.95	235.24

The Water Quality Volume for PRWS1 is proposed to be captured and treated in separator stormwater chambers. The volume captured and infiltrated in the infiltration basin is 238 c.f., therefore, the water quality volume criteria is satisfied. The table below shows the calculation for water quality pre-treatment.

25% Water Quality Volume Required (C.F.)	Storage Volume per Stormwater Chamber (C.F.)	Separator Chambers Required
235.24	79.29	3.0

The table below shows a comparison of the existing and proposed peak flows for the 100-yr Storm:

Peak Flow Table			
Storm Event	Existing Peak Runoff (cfs)	Proposed Peak Runoff (cfs)	Net Change (cfs)
100 Year	0.8	0.8	0

Conclusion:

Based on the analysis in this stormwater report, the stormwater management practice proposed will adequately treat and contain the runoff leaving the site. In addition, there will be no adverse affects due to stormwater as a result of the proposed development.

ALFONZETTI ENGINEERING, P.C.
Ralph Alfonzetti, P.E.

Soil Information as per USDA (United States Department of Agriculture), NRCS (Natural Resources Conservation Service):

Soil Map—Westchester County, New York

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Soil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 18, Sep 10, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 21, 2022—Oct 27, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ChC	Charlton fine sandy loam, 8 to 15 percent slopes	B	0.8	35.7%
ChD	Charlton fine sandy loam, 15 to 25 percent slopes	B	1.5	64.3%
Totals for Area of Interest			**2.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChC	Charlton fine sandy loam, 8 to 15 percent slopes	0.8	35.7%
ChD	Charlton fine sandy loam, 15 to 25 percent slopes	1.5	64.3%
Totals for Area of Interest		**2.3**	**100.0%**

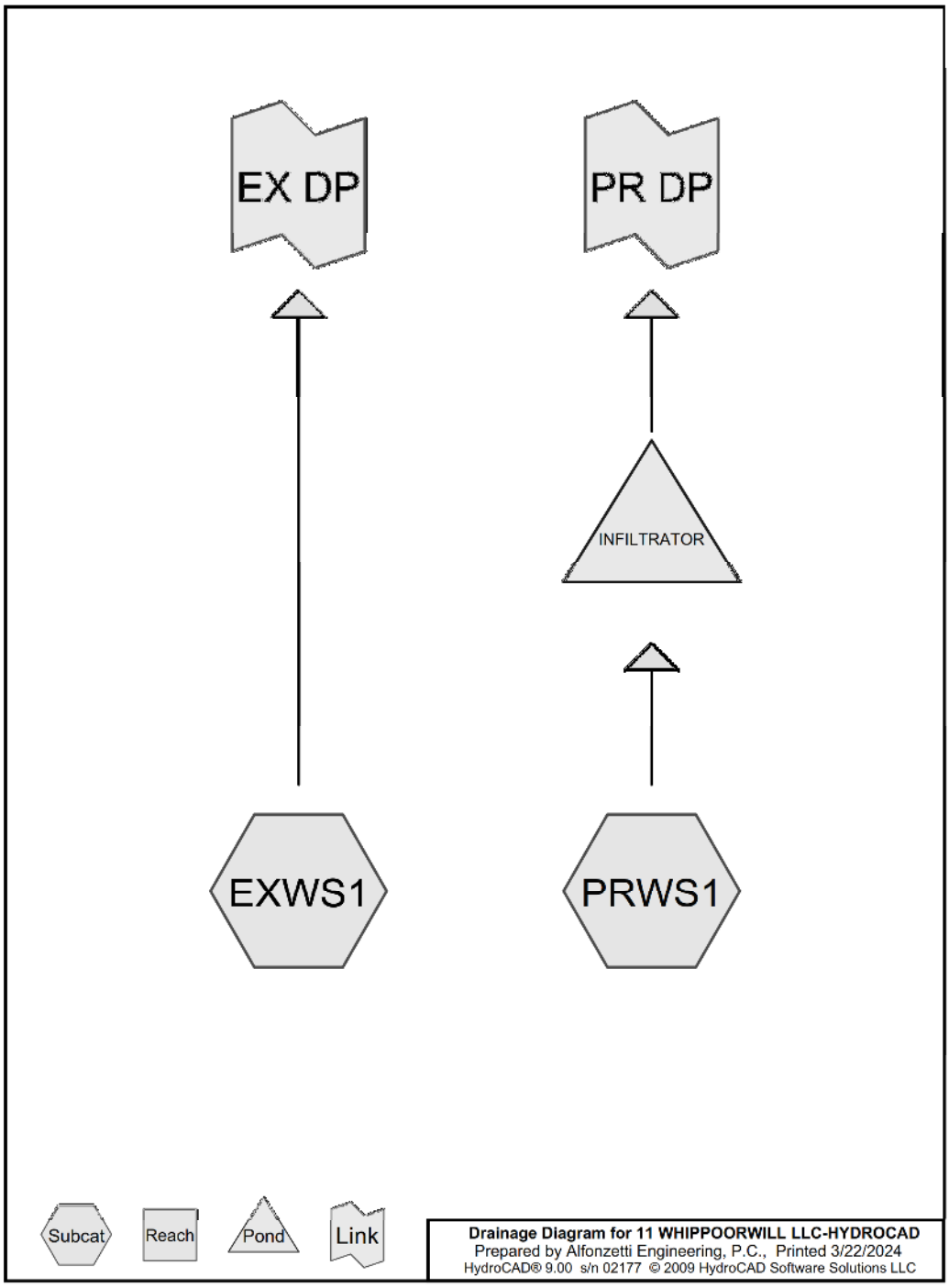
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

HydroCad


EX DP
PR DP
INFILTRATOR
EXWS1
PRWS1
Subcat
Reach
Pond
Link
Drainage Diagram for 11 WHIPPOORWILL LLC-HYDROCAD
Prepared by Alfonzetti Engineering, P.C., Printed 3/22/2024
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11 WHIPPOORWILL LLC-HYDROCAD
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.204	55	Woods, Good, HSG B (EXWS1)
0.023	85	Gravel roads, HSG B (PRWS1)
0.095	98	Paved parking, HSG B (PRWS1)
0.048	98	Roofs, HSG B (PRWS1)
0.034	98	Walks (PRWS1)
0.004	98	Walls (PRWS1)
0.407		**TOTAL AREA**

11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
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Time span=0.00-48.00 hrs, dt=0.01 hrs, 4801 points
Runoff by SCS TR-20 method, UH=SCS
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment EXWS1: Runoff Area=8,874 sf 0.00% Impervious Runoff Depth=3.61"
Tc=6.0 min CN=55 Runoff=0.8 cfs 0.061 af

Subcatchment PRWS1: Runoff Area=8,874 sf 88.70% Impervious Runoff Depth=8.81"
Tc=6.0 min CN=97 Runoff=1.8 cfs 0.150 af

Pond INFILTRATOR: Peak Elev=483.28' Storage=0.048 af Inflow=1.8 cfs 0.150 af
Discarded=0.0 cfs 0.091 af Primary=0.8 cfs 0.059 af Outflow=0.9 cfs 0.150 af

Link EX DP: Inflow=0.8 cfs 0.061 af
Primary=0.8 cfs 0.061 af

Link PR DP: Inflow=0.8 cfs 0.059 af
Primary=0.8 cfs 0.059 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.211 af Average Runoff Depth = 6.21"
55.65% Pervious = 0.227 ac 44.35% Impervious = 0.181 ac

11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
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Summary for Subcatchment EXWS1:

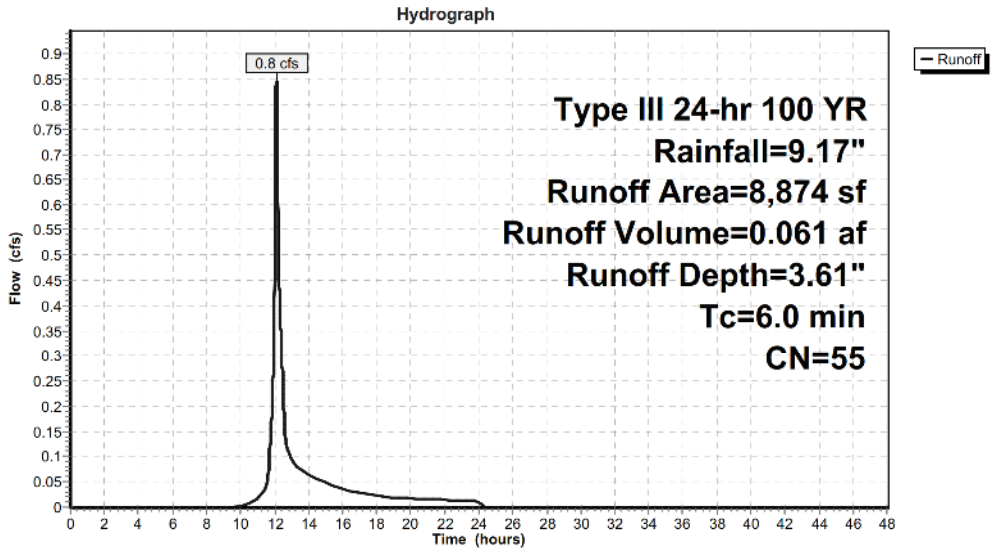
Runoff = 0.8 cfs @ 12.09 hrs, Volume= 0.061 af, Depth= 3.61"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 100 YR Rainfall=9.17"

Area (sf)	CN	Description
8,874	55	Woods, Good, HSG B
8,874		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment EXWS1:



11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
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Summary for Subcatchment PRWS1:

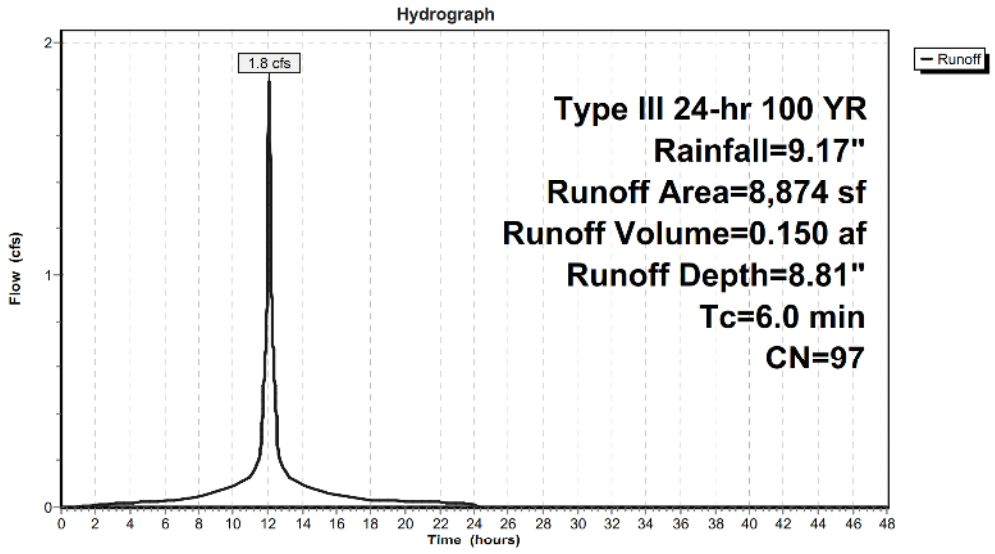
Runoff = 1.8 cfs @ 12.08 hrs, Volume= 0.150 af, Depth= 8.81"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 100 YR Rainfall=9.17"

	Area (sf)	CN	Description
	2,106	98	Roofs, HSG B
*	1,474	98	Walks
*	164	98	Walls
	4,127	98	Paved parking, HSG B
	1,003	85	Gravel roads, HSG B
	8,874	97	Weighted Average
	1,003		11.30% Pervious Area
	7,871		88.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment PRWS1:



11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
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Summary for Pond INFILTRATOR:

Inflow Area = 0.204 ac, 88.70% Impervious, Inflow Depth = 8.81" for 100 YR event
Inflow = 1.8 cfs @ 12.08 hrs, Volume= 0.150 af
Outflow = 0.9 cfs @ 12.23 hrs, Volume= 0.150 af, Atten= 52%, Lag= 9.1 min
Discarded = 0.0 cfs @ 7.82 hrs, Volume= 0.091 af
Primary = 0.8 cfs @ 12.23 hrs, Volume= 0.059 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 483.28' @ 12.23 hrs Surf.Area= 0.028 ac Storage= 0.048 af

Plug-Flow detention time= 194.5 min calculated for 0.150 af (100% of inflow)
Center-of-Mass det. time= 194.5 min (939.5 - 745.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	480.75'	0.023 af	**11.17'W x 100.00'L x 3.54'H Field A**
			0.091 af Overall - 0.034 af Embedded = 0.057 af x 40.0% Voids
#2A	481.25'	0.034 af	**Cultec R-330XL** x 28 Inside #1
			Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
			Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap
#3B	480.75'	0.002 af	**6.33'W x 16.00'L x 3.54'H Field B**
			0.008 af Overall - 0.002 af Embedded = 0.006 af x 40.0% Voids
#4B	481.25'	0.002 af	**Cultec R-330XL** x 2 Inside #3
			Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
			Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap
		0.061 af	Total Available Storage

Storage Group A created with Chamber Wizard
Storage Group B created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	480.75'	**1.500 in/hr Exfiltration over Horizontal area**
#2	Primary	482.50'	**6.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.0 cfs @ 7.82 hrs HW=480.79' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.0 cfs)

Primary OutFlow Max=0.8 cfs @ 12.23 hrs HW=483.28' (Free Discharge)
↑**2=Orifice/Grate** (Orifice Controls 0.8 cfs @ 4.26 fps)

Pond INFILTRATOR: - Chamber Wizard Field A

Chamber Model = Cultec R-330XL
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

52.0" Wide + 6.0" Spacing = 58.0" C-C

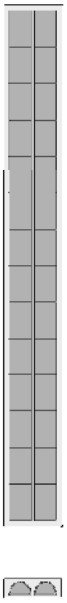
14 Chambers/Row x 7.00' Long = 98.00' + 12.0" End Stone x 2 = 100.00' Base Length
2 Rows x 52.0" Wide + 6.0" Spacing x 1 + 12.0" Side Stone x 2 = 11.17' Base Width
6.0" Base + 30.5" Chamber Height + 6.0" Cover = 3.54' Field Height

28 Chambers x 52.2 cf = 1,460.4 cf Chamber Storage

3,954.9 cf Field - 1,460.4 cf Chambers = 2,494.5 cf Stone x 40.0% Voids = 997.8 cf Stone Storage

Stone + Chamber Storage = 2,458.2 cf = 0.056 af

28 Chambers
146.5 cy Field
92.4 cy Stone



Pond INFILTRATOR: - Chamber Wizard Field B

Chamber Model = Cultec R-330XL
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap

52.0" Wide + 6.0" Spacing = 58.0" C-C

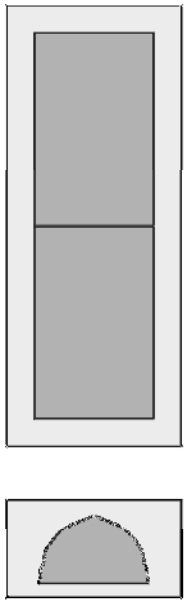
2 Chambers/Row x 7.00' Long = 14.00' + 12.0" End Stone x 2 = 16.00' Base Length
1 Rows x 52.0" Wide + 12.0" Side Stone x 2 = 6.33' Base Width
6.0" Base + 30.5" Chamber Height + 6.0" Cover = 3.54' Field Height

2 Chambers x 52.2 cf = 104.3 cf Chamber Storage

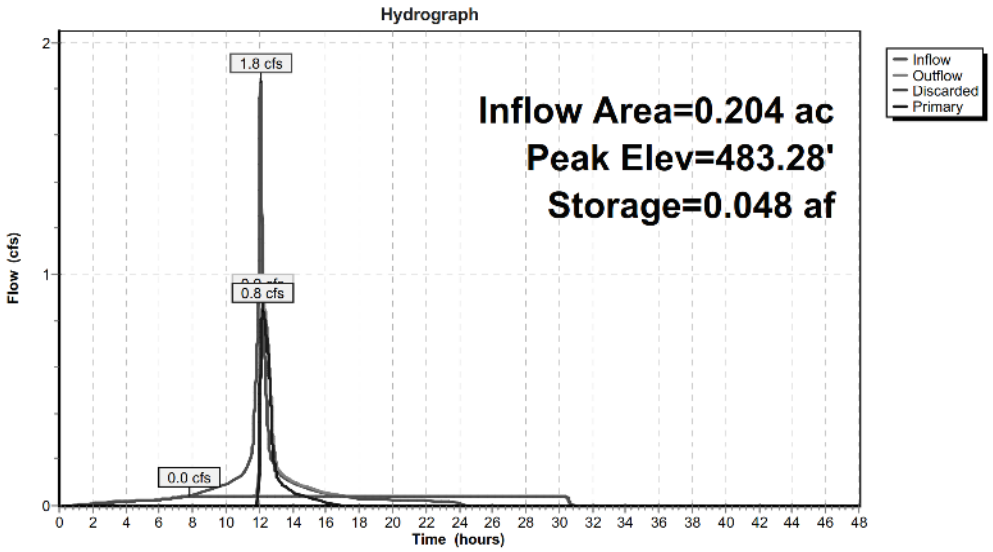
358.9 cf Field - 104.3 cf Chambers = 254.6 cf Stone x 40.0% Voids = 101.8 cf Stone Storage

Stone + Chamber Storage = 206.1 cf = 0.005 af

2 Chambers
13.3 cy Field
9.4 cy Stone



Pond INFILTRATOR:



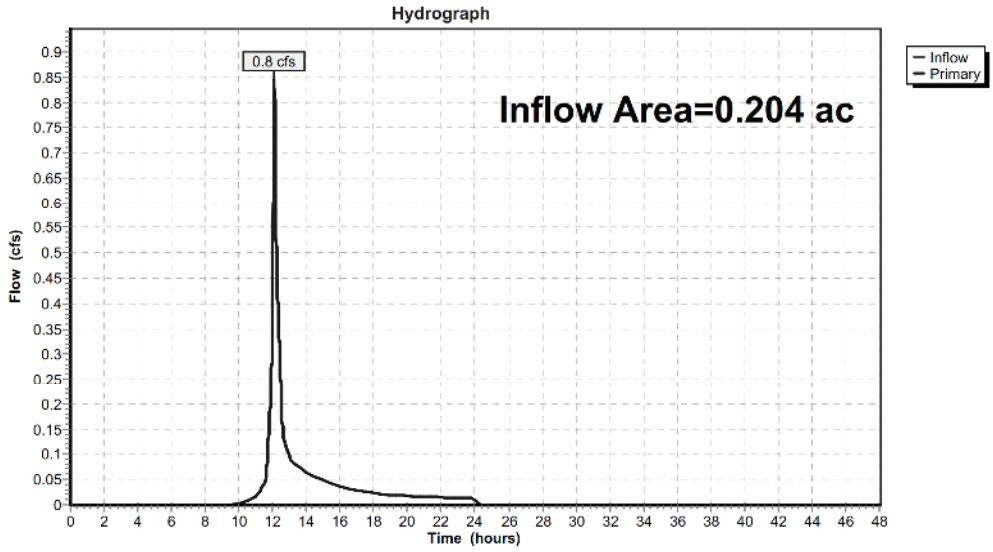
11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
HydroCAD® 9.00 s/n 02177 © 2009 HydroCAD Software Solutions LLC

Summary for Link EX DP:

Inflow Area = 0.204 ac, 0.00% Impervious, Inflow Depth = 3.61" for 100 YR event
Inflow = 0.8 cfs @ 12.09 hrs, Volume= 0.061 af
Primary = 0.8 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link EX DP:



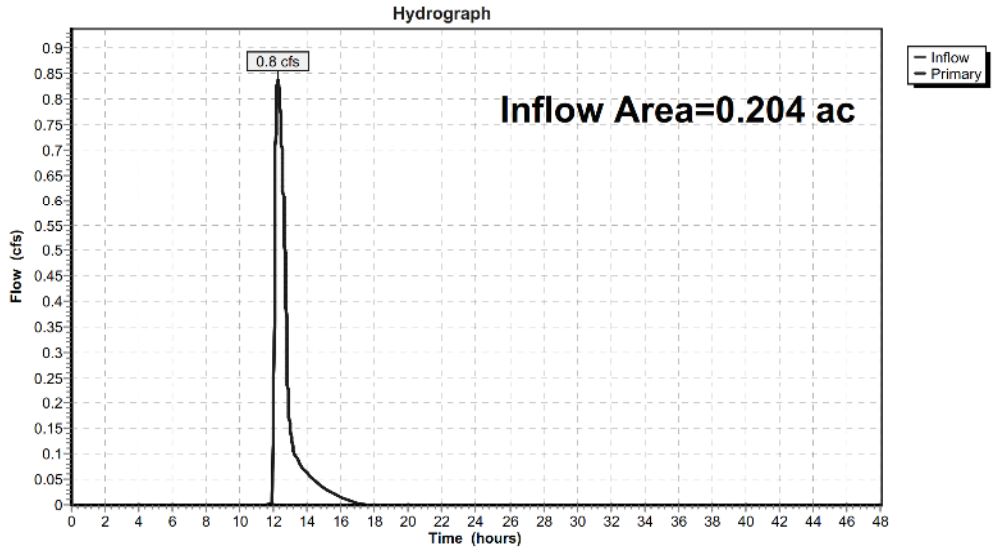
11 WHIPPOORWILL LLC-HYDROCAD *Type III 24-hr 100 YR Rainfall=9.17"*
Prepared by Alfonzetti Engineering, P.C. Printed 3/22/2024
HydroCAD® 9.00 s/n 02177 © 2009 HydroCAD Software Solutions LLC

Summary for Link PR DP:

Inflow Area = 0.204 ac, 88.70% Impervious, Inflow Depth = 3.45" for 100 YR event
Inflow = 0.8 cfs @ 12.23 hrs, Volume= 0.059 af
Primary = 0.8 cfs @ 12.23 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Link PR DP:



1 PLANTING PLAN

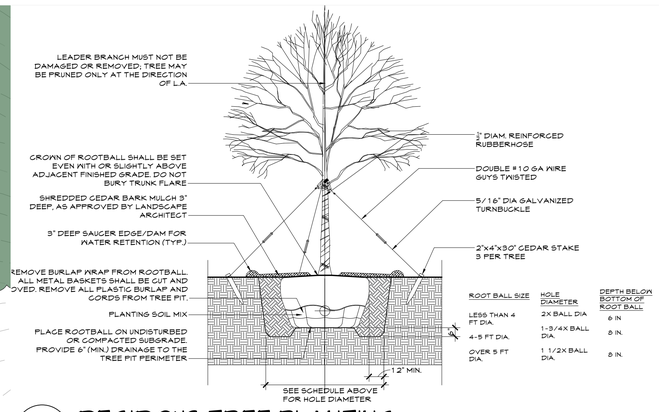
SCALE: 1/16"=1'-0"

PLANTING NOTES:

1. USE EXTREME CAUTION TO PROTECT UTILITIES.
2. ALL PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF MECHANICAL EQUIPMENT AND UTILITIES EXISTING OR PROPOSED IN THE AREA TO BE PLANTED AND SHALL, WHERE NECESSARY, RELOCATE PLANTS AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
4. QUANTITIES GIVEN IN THE PLANT LIST ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL THE QUANTITIES SHOWN ON THE LIST AND SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS REQUIRED TO COMPLETE THE PLANS.
5. LOCATIONS OF NEW PLANTS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. ALL PLANTS SHALL BE SUBJECT TO THE LANDSCAPE ARCHITECT'S INSPECTION AND APPROVAL AT THE NURSERY AND AT THE SITE BEFORE ANY PLANTING WORK IS BEGUN.
7. ALL BEDS AND TREE SAUCERS AND OTHER AREAS NOTED SHALL RECEIVE 2 INCHES (MINIMUM) OF APPROVED MULCH (SHREDDED CEDAR).
8. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR ONE YEAR FROM TIME OF LANDSCAPE ARCHITECT'S FINAL WRITTEN APPROVAL
9. TOP SOIL MIX SHALL INCLUDE:
   - 3 PARTS SCREENED TOPSOIL
   - 1 PART SAND
   - 1 PART HUMUS
   - 5 LBS. SUPERPHOSPHATE PER CU. YD. OF MIX
10. CONTRACTOR TO COORDINATE PLANTING, SODDING AND TREE WORK WITH OTHER TRADES.
11. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL PERMITS WHERE REQUIRED.
12. CONTRACTOR RESPONSIBLE FOR RESTORING ALL AREAS DISTURBED DUE TO PLANTING OPERATIONS.
13. CONTRACTOR SHALL BALL, BURLAP AND TRANSPLANT DESIGNATED PLANT MATERIAL AS SHOWN ON DRAWINGS AND AS DIRECTED BY LANDSCAPE ARCHITECT.

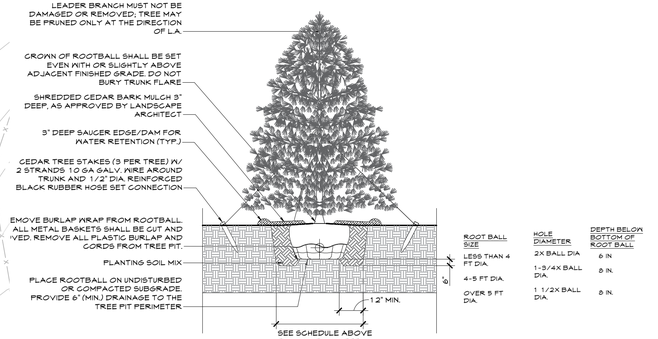
PLANT LIST

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
Trees					
2	AC	Amelanchier canadensis	Serviceberry	6-7' Ht.	Clumped, B&B
2	AR	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	3 1/2" -4" cal.	B&B
2	BN	Betual nigra 'Duraheat'	River Birch	10'-12'	Multi-stemmed, Clumped, B&B
3	CC	Cercis canadensis	Eastern Redbud	2 1/2" -3" cal.	B&B
3	CF	Cornus x 'Rutcan'	Constellation Dogwood	2 1/2" - 3" cal.	B&B
2	IO	Ilex opaca	American Holly	7'-8'	B&B
11	PG	Picea glauca	White Spruce	8'-10' Ht.	B&B
9	TP	Thuja plicata x standishii 'Green Giant'	Green Giant Arborvitae	7'-8' Ht.	B&B
Shrubs					
16	CA	Clethra alnifolia	Sweet pepperbush	2 1/2' - 3' Ht.	B&B
9	CS	Cornus sericea	Red Dosier Dogwood	3' - 3 1/2' Ht.	B&B
23	IG	Ilex glabra 'Shamrock'	Inkberry	2 1/2' - 3' Ht.	B&B
12	IV	Ilex verticuillata 'Berry Poppins'	Berry Poppins Winterberry	3' - 3 1/2' Ht.	B&B
15	JH	Juniperus horizontalis 'Blue Chip'	Creeping Juniper	3 gal.	Container
9	MP	Myrica pennsylvanica	Bayberry	3' - 3 1/2' Ht.	B&B
3	VD	Viburnum dentatum 'SMVDE'	Sparkler Arrowwood Viburnum	3 1/2' -4' Ht.	B&B
Perennials, Grasses, and Vines					
15	LS	Lonicera sempervirens	American Honeysuckle Vine	2 gal.	Container
18	MC	Muhlenbergia capillaris	Muhly Grass	2 gal.	Container
30	RH	Rudbeckia hirta	Black Eyed Susan	1 gal.	Container
30	PV	Panicum virgatum 'Heavy Metal'	Switchgrass	2 gal.	Container
Mixed Perennials					
20	AB	Agastache 'Blue Fortune	Blue Fortune Agastache	1 gal.	Container
30	AT	Asclepias tuberosa	Butterfly Weed	1 gal.	Container
30	EP	Echinacea purpurea	Purple Coneflower	1 gal.	Container
20	LS	Liatris Spicata Blue	Blue Blazing Star	1 gal.	Container
Ferns					
30	DM	Drypteris marginalis	Marginal Wood Fern	1 gal.	Container
50	SP	Sitobolium punctilobulum	Hayscented Fern	1 gal.	Container



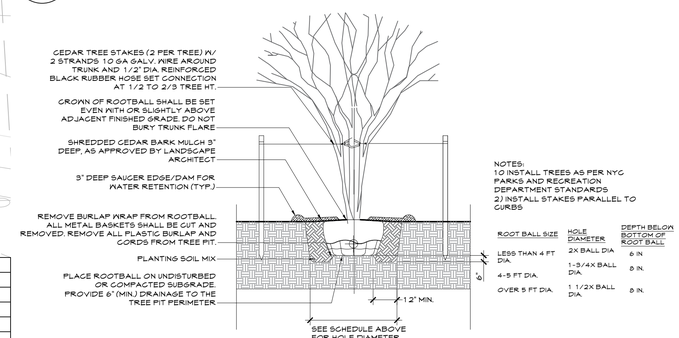
2 DECIDOUS TREE PLANTING

SCALE: 3/8"=1'-0"



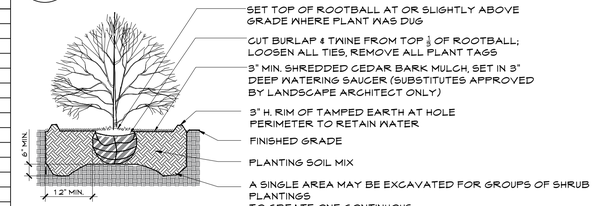
3 EVERGREEN PLANTING

SCALE: 3/8"=1'-0"



4 MULTISTEMMED TREE PLANTING

SCALE: 3/8"=1'-0"



5 SHRUB PLANTING

SCALE: 3/8"=1'-0"

General Notes

REGISTERED LANDSCAPE ARCHITECT JOHN A. IMBIANO No. 000513 STATE OF NEW YORK

No.	Revision/Issue	Date
1.	To the Planning Board	3-25-24

IQ
Imbiano -Quigley
Landscape Architects
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White Plains, New York 10601
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(914) 232-0200

Project Name

1 1 Whippoorwill Lane
Armonk, NY

Drawing Title

Planting Plan

Scale
1/16" = 1'-0"

Date
March, 20, 2024

Drawn By ST | Checked By JAI

Sheet No.
L- 1