



Town of North Castle
Residential Project Review Committee
17 Bedford Road Armonk, New York 10504
(914) 273-3542 (914) 273-3554 (fax)

RPRC COMPLETENESS REVIEW FORM

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Project Name on Plan:

PROPOSED POOL AND PATIO

Initial Submittal Revised Preliminary

Street Location:

7 ROUND HOUSE RD.

Zoning District: R-1A Property Acreage: 0.89 AC Tax Map Parcel ID: 102.04-2-33

Date: 12/4/2020

DEPARTMENTAL USE ONLY

Date Filed: _____ Staff Name: _____

Preliminary Plan Completeness Review Checklist

Items marked with a are complete, items left blank are incomplete and must be completed, "NA" means not applicable.

1. Plan prepared by a registered architect or professional engineer
2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
3. Map showing the applicant's entire property and adjacent properties and streets
4. A locator map at a convenient scale
5. The proposed location, use and design of all buildings and structures
6. Existing topography and proposed grade elevations
7. Location of drives
8. Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

RPRC COMPLETENESS REVIEW FORM

Page 2

<input type="checkbox"/>	9. Description of method of water supply and sewage disposal and location of such facilities
<input type="checkbox"/>	10. The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
<input type="checkbox"/>	1. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
<input type="checkbox"/>	2. If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
<input type="checkbox"/>	3. If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: <http://www.northcastleny.com/townhall.html>

_____	On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.
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TOWN OF NORTH CASTLE
 WESTCHESTER COUNTY
 17 Bedford Road
 Armonk, New York 10504-1898

PLANNING DEPARTMENT
 Adam R. Kaufman, AICP
 Director of Planning

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 Fax: (914) 273-3554
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GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Application Name or Identifying Title: PROPOSED POOL + PATIO Date: 12/4/2020

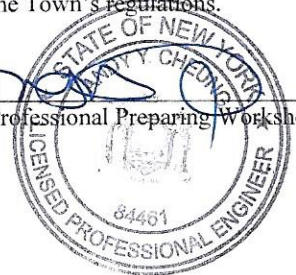
Tax Map Designation or Proposed Lot No.: 102.04-2-33

Gross Lot Coverage

1. Total lot Area (Net Lot Area for Lots Created After 12/13/06): 0.89 AC (38,714 SF)
2. **Maximum** permitted gross land coverage (per Section 355-26.C(1)(b)): 8,050 SF
3. **BONUS** maximum gross land cover (per Section 355-26.C(1)(b)):
 Distance principal home is beyond minimum front yard setback
12% x 10 = _____
 $12\% \times 6,098 \text{ SF} =$
732 SF
4. **TOTAL Maximum Permitted gross land coverage** = Sum of lines 2 and 3 8,782 SF
5. Amount of lot area covered by **principal building**:
2,370 existing + 0 proposed = 2,370 SF
6. Amount of lot area covered by **accessory buildings**:
0 existing + 0 proposed = 0
7. Amount of lot area covered by **decks**:
499 existing + _____ proposed = 499 SF
8. Amount of lot area covered by **porches**:
0 existing + 0 proposed = 0
9. Amount of lot area covered by **driveway, parking areas and walkways**:
2140 existing + 0 proposed = 2,140 SF
10. Amount of lot area covered by **terraces**:
0 existing + 0 proposed = 0
11. Amount of lot area covered by **tennis court, pool and mechanical equip**:
0 existing + 1,751 proposed = 1,751 SF
12. Amount of lot area covered by **all other structures**:
0 existing + 0 proposed = 0
13. Proposed **gross land coverage**: Total of Lines 5 – 12 = 6,760 SF

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet



12/4/2020
 Date



File: D:\OnSite - AC Engineering\Current Projects\7 Round House Rd - Meriden\Pool\Drawings\1-13-2020\SC-01.dwg Layout: LAYOUT1 User: Andy Cheung Dec 06, 2020 - 10:15am

GENERAL NOTES:

1. TOPOGRAPHY FROM MAPPING WESTCHESTER BEDFORD GIS.
2. SURVEY INFORMATION PROVIDED BY OWNER. SEPTIC LOCATIONS PREPARED BY FREDERICK RUCKER, R.A. DATED AUGUST 20, 2011. AC ENGINEERING HAS NOT RESURVEYED FOR ACCURACY.
3. DURING CONSTRUCTION, SEDIMENT AND EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF BEDFORD STANDARDS FOR SEDIMENT AND EROSION CONTROL.
4. ALL CONSTRUCTION SHALL BE PERFORMED IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS
5. REFERENCE APPLICABLE PLANS BY POOL MANUFACTURER FOR OTHER NOTES, SPECIFICATIONS AND DETAILS.
6. ALL NEW AND EXISTING FINISHED GRADES SHALL SLOPE TO DRAIN AWAY FROM BUILDINGS
7. ALL DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING WALLS, FINISHED FACE OF WALLS AND EXPOSED FACE OF CURBING UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
9. ALL FILL AND BACKFILL AREAS TO BE COMPACTED IN 6" LIFTS AND COMPACTED TO 95% COMPACTION UNLESS OTHERWISE NOTED. NO FILL TO BE IMPORTED ON-SITE WITHOUT TESTING DOCUMENTATION SUBMITTED TO TOWN OF BEDFORD.
10. CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO BEGINNING WORK. CONTACT PROPER UTILITY COMPANIES A MINIMUM OF 72 HOURS BEFORE DIGGING FOR FIELD VERIFICATION. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO UTILITY OR IRRIGATION LINES.
11. NO SOIL, MATERIALS OR EQUIPMENT SHALL BE STOCKPILED OR STORED IN THE AREA USED FOR STORMWATER INFILTRATION.
12. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, IT CANNOT BE PUMPED INTO THE TOWN'S STORMWATER SYSTEM.
13. ALL POOL FENCING, ALARMS AND SAFETY APPURTENANCES TO FOLLOW ALL STATE, AND LOCAL BUILDING CODES.
14. POOL PATIO SIZE IS 1,726 SF. LOT SIZE IS 38,714 SF (0.89 AC), POOL PATIO = 4% OF LOT SIZE

EROSION CONTROL NOTES:

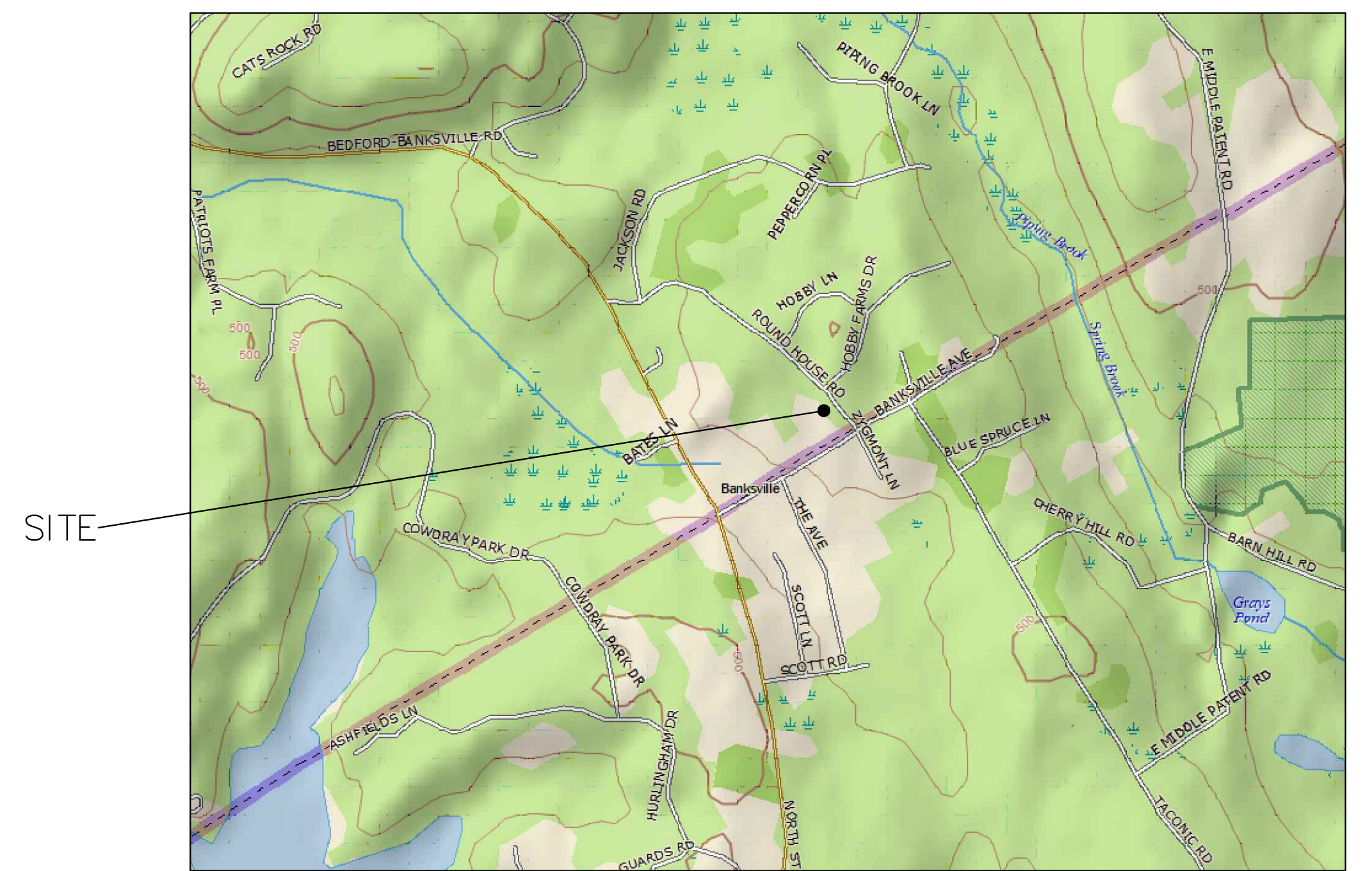
15. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RE-STABILIZATION SHALL BE SCHEDULED AS SOON AS POSSIBLE.
16. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THESE PLANS AND APPROVED BY THE TOWN ENGINEER BEFORE BEGINNING WORK.
17. WHENEVER POSSIBLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
18. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION AS NECESSARY.
19. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
21. ALL DISTURBED AREAS TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS SHALL BE PROTECTED WITH TEMPORARY VEGETATIVE COVER. SEED THESE AREAS WITH PERENNIAL RYE GRASS AT THE RATE OF 1 POUND PER 1,000 SQUARE FEET.
22. CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
23. CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE, 100 FEET MINIMUM, ON SITE FOR EMERGENCY REPAIRS.
24. SUMPS OF ALL DRAINAGE STRUCTURES SHALL BE PERIODICALLY INSPECTED AND CLEANED TO PREVENT THE BUILDUP OF SILT.
25. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED AFTER EACH RAIN OR STORM. ANY DAMAGE DONE BY RAIN OR STORMS SHALL BE IMMEDIATELY REPAIRED TO ORIGINAL CONDITION.
26. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL ADVERSE IMPACT TO ADJACENT PROPERTIES DUE TO CONSTRUCTION ON SITE.

DRAINAGE NOTES:

27. INSTALLATION OF STORM WATER DRAINAGE SYSTEM SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS
28. WHERE A MANUFACTURERS PART NUMBER IS CALLED OUT, IT IS NOT INTENDED TO REQUIRE INSTALLATION OF THE PART. RATHER, IT IS INTENDED TO SET A MINIMUM STANDARD. OTHER MANUFACTURER'S PRODUCTS MAY BE USED, SUBJECT TO THE WRITTEN APPROVAL OF THE ENGINEER. ADDITIONAL COST REQUIRED FOR THE REVIEW AND/OR INSTALLATION OF OTHER MANUFACTURER'S PRODUCTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
29. PVC PIPE SHALL CONFORM TO ASTM D2665, D3034 OR F891
30. PVC FITTINGS SHALL CONFORM TO ASTM D2464, D2465, D2466 OR D2667
31. PIPE AND FITTINGS CONFORMING TO OTHER SPECIFICATIONS MAY BE USED, SUBJECT TO THE WRITTEN APPROVAL OF THE ENGINEER.
32. MANUFACTURED PRODUCTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURE.
33. ALL DRAIN PIPING TO BE INSTALLED SHALL BE EITHER SCH40 PVC, HDPE OR SDR35 IN MATERIAL AND SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1%.
34. NO SOIL STOCKPILING, MATERIALS OR EQUIPMENT SHALL BE STORED IN THE AREAS TO BE USED FOR STORM WATER DETENTION.

CONSTRUCTION SEQUENCE:

35. INSPECT EXISTING EROSION CONTROL MEASURES AND INSTALL, REINSTALL OR REPLACE AS SHOWN ON THIS DRAWING.
36. LOCATE EXISTING UNDERGROUND UTILITIES AND CONFIRM ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED BEFORE BEGINNING THE SITE WORK ON THESE PLANS.
37. STOCKPILE TOPSOIL, IF ANY.
38. RELOCATE AND ADJUST EXISTING UNDERGROUND UTILITIES IF REQUIRED
39. EXCAVATE TO THE LINES AND GRADES SHOWN.
40. INSTALL STORMWATER DRAINAGE SYSTEM AS SHOWN ON SITE PLAN.
41. CONSTRUCT PROPOSED POOL AND PATIO.
42. BEGIN FILLING/BACKFILLING PROCEDURES
43. SEED AND MULCH ALL DISTURBED AREAS.
44. REMOVE EROSION CONTROL MEASURES WHEN 90% VEGETATION ESTABLISHED.
45. FINAL CLEAN-UP AND PROJECT CLOSEOUT.



SITE LOCATION MAP

WARNING: IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ANDY CHEUNG, P.E.
 12/4/2020
 N.Y.P.E. LIC. NO. 084461 DATE

REV	DATE	DESCRIPTION

DRAWN BY:	AC
DESIGNED BY:	AC
CHECKED BY:	AC
APPROVED BY:	AC
DECEMBER 2020	
DATE CREATED	

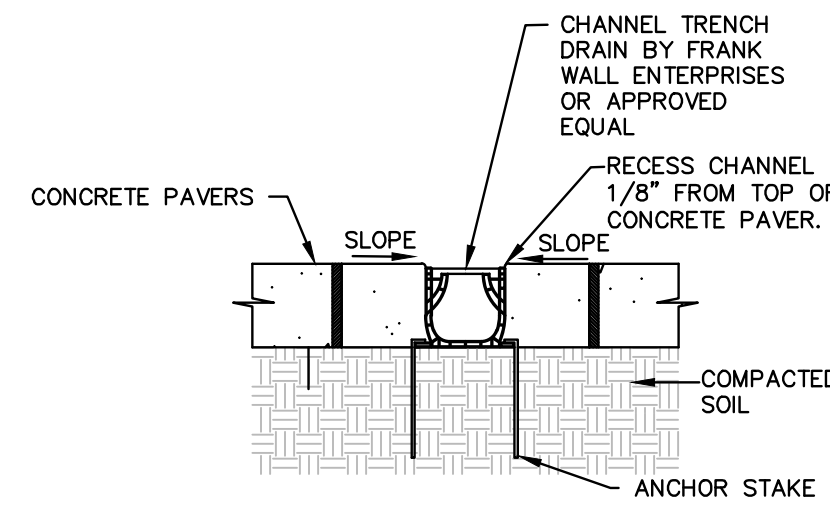
AC ENGINEERING, PLLC

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(914) 260-4239
EMAIL: ACHEUNG@ACENGINEERINGPLLC.COM

7 ROUND HOUSE ROAD
BEDFORD, NEW YORK 10506
SECTION 102.04 BLOCK 2 LOT 33

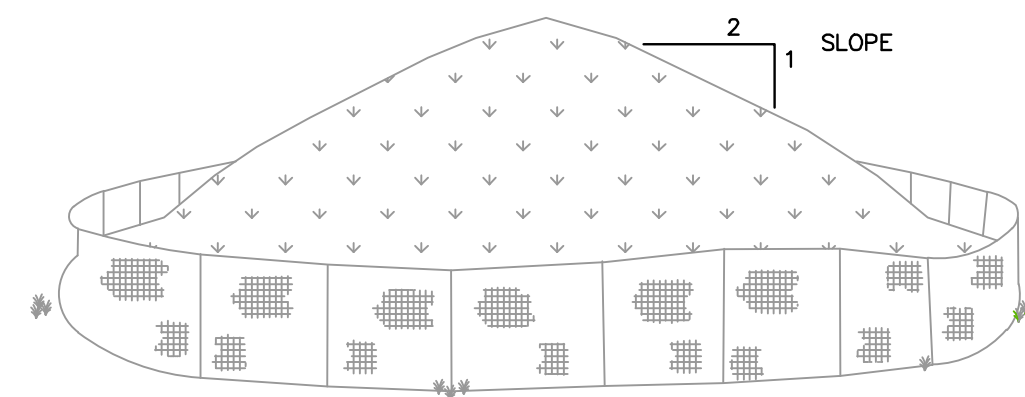
PROPOSED POOL AND PATIO
OVERALL SITE PLAN AND NOTES

DRAWING NO.
1
PROJECT NO.
BE-7RHR-MER-PO



POOL TRENCH GRATE

SECTION TG
SCALE: NTS



STOCKPILE DETAIL

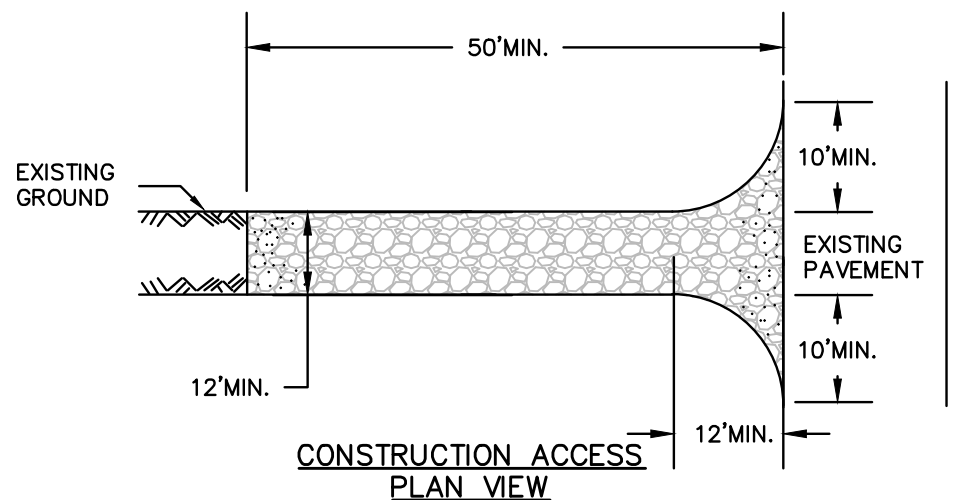
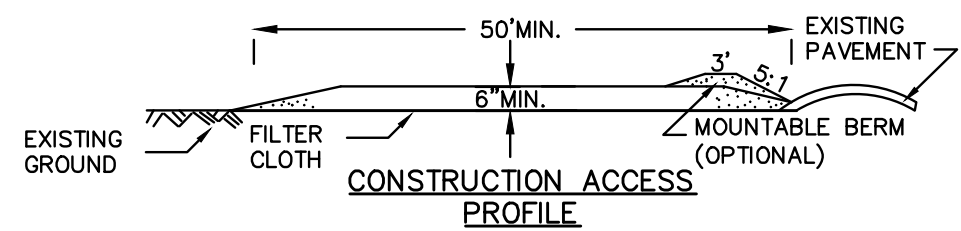
DETAIL SP
SCALE: 1" = 2'

INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. SOILS OR FILL TO BE STOCKPILED ON SITE DURING CUTTING AND FILLING ACTIVITIES SHOULD BE LOCATED ON LEVEL PORTIONS OF THE SITE WITH A MINIMUM OF 50-75 FOOT SETBACKS FROM TEMPORARY DRAINAGE SWALES.
3. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
4. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING THEN STABILIZED WITH VEGETATION OR COVERED.
5. STOCKPILES REMAINING IN PLACE FOR MORE THAN A WEEK SHOULD BE SEEDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.

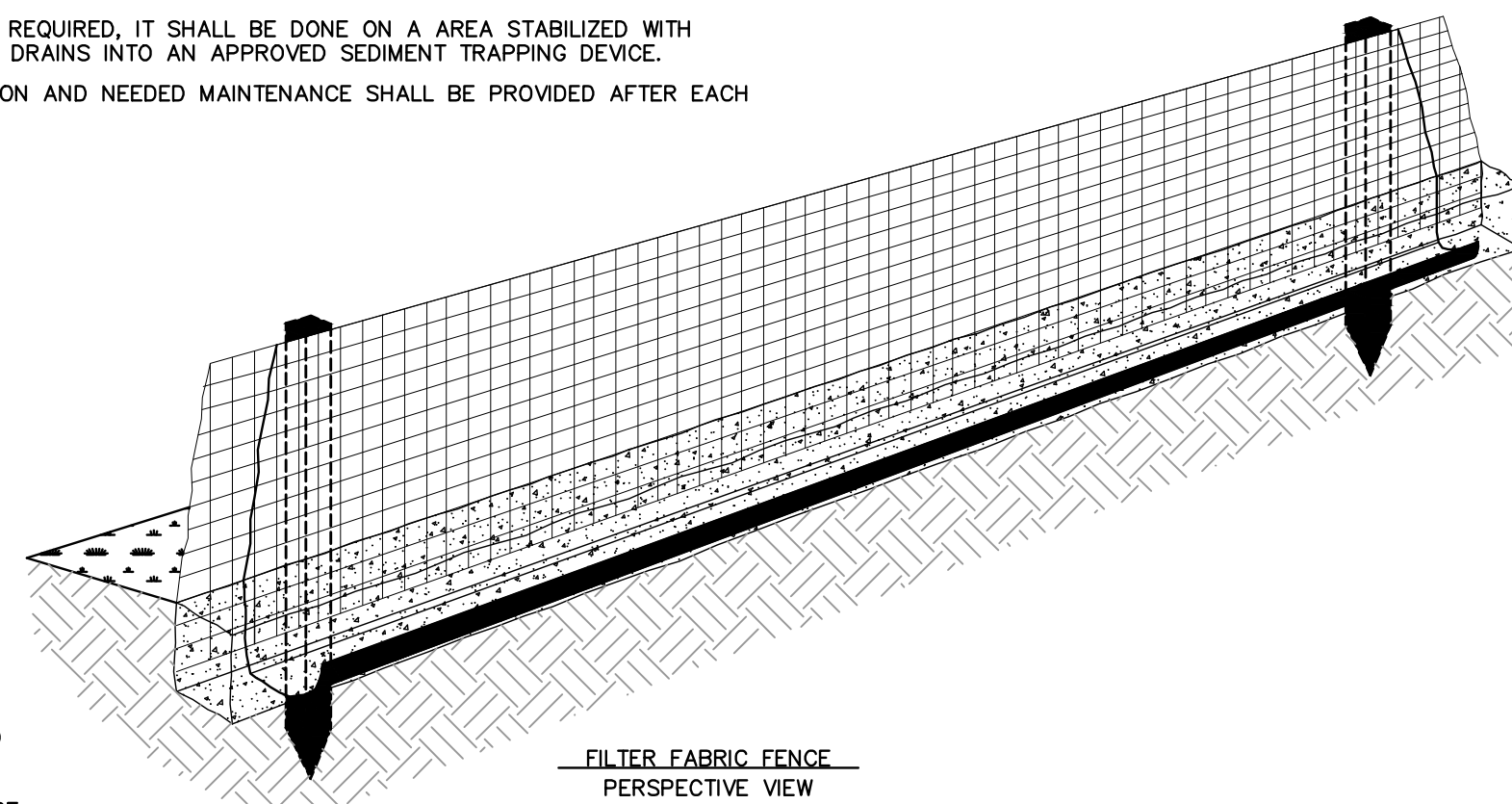
CONSTRUCTION ACCESS NOTES:

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - 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 - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. 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.



CONSTRUCTION ENTRANCE (AS NECESSARY)

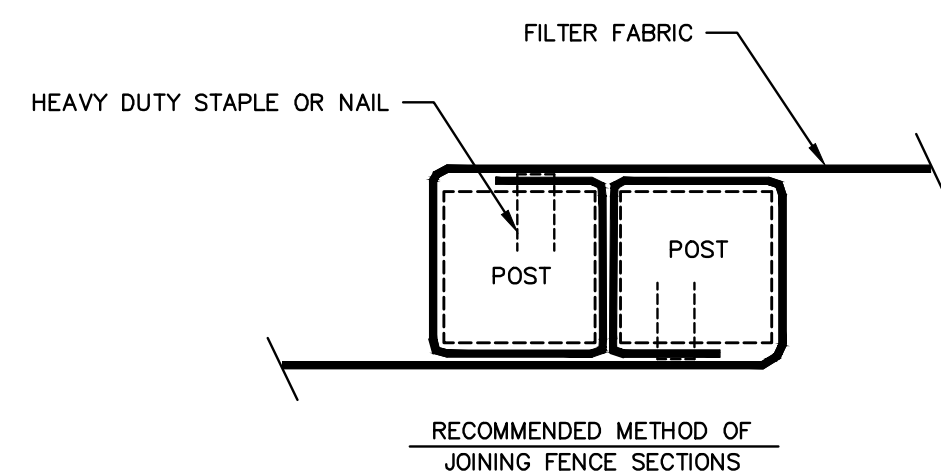
DETAIL CE
SCALE: N.T.S.



FILTER FABRIC FENCE PERSPECTIVE VIEW

SOIL EROSION AND SEDIMENT CONTROL SPECIFICATIONS AND NOTES:

1. POSTS SHALL BE OF THIRTY SIX (36) INCH MINIMUM LENGTH CONSTRUCTED OF EITHER OF THE FOLLOWING MATERIALS: STEEL "T" OR "U" TYPE, OR 2" x 2" HARDWOOD.
2. WOVEN WIRE USED AS ADDITIONAL FENCE SUPPORT SHALL BE MINIMUM 14.5 GAUGE WITH SIX (6) INCH MAXIMUM MESH SPACING.
3. WOVEN WIRE SHALL BE PLACED ALONG THE UPHILL SIDE OF THE FENCE AND FASTENED WITH WIRE TIES OR ONE (1) INCH STAPLES ALONG THE UPHILL SIDE OF THE POSTS.
4. FILTER FABRIC SHALL BE FASTENED TO WOVEN WIRE ACCORDING TO MANUFACTURERS RECOMMENDATION, OR WITH TIES EVERY TWENTY FOUR (24) INCHES AT TOP AND MID-SECTION.
5. WHERE TWO PIECES OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX (6) INCHES AND FOLDED.
6. WHERE TWO POSTS MEET TO JOIN FENCE SECTIONS, THE TOPS OF THE POSTS SHALL BE SECURED TOGETHER WITH WIRE.
7. THE FENCE SHALL BE CONSTRUCTED ALONG THE CONTOUR AS MUCH AS POSSIBLE.
8. ENDS OF FENCES SHALL BE EXTENDED UP THE SLOPE TO PREVENT RUNOFF FROM MIGRATING AROUND THE END OF THE FENCE.
9. INSPECTION OF THE FENCE SHALL BE PERFORMED WEEKLY, OR IMMEDIATELY AFTER A RAIN EVENT, OR WHEN BULGES APPEAR IN THE FENCE. ACCUMULATED SILT SHALL NOT BE ALLOWED TO EXCEED (1/2) HEIGHT OF THE FABRIC. REPAIR AND OR REPLACEMENT OF DAMAGED FENCE SHALL BE COMPLETED PROMPTLY, AS NEEDED.
10. ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE IN SUCH A MANNER THAT IT WILL NOT CONTRIBUTE TO OFF-SITE SILTATION.
11. ALL FENCING SHALL BE REMOVED WHEN THE CONSTRUCTION SITE IS FULLY STABILIZED SO AS TO NOT IMPEDE STORM FLOW OR DRAINAGE.
12. PRE-FABRICATED UNITS DO NOT REQUIRE THE USE OF WOVEN WIRE FENCE.



RECOMMENDED METHOD OF JOINING FENCE SECTIONS

SOIL EROSION AND SEDIMENT CONTROL

DETAIL SF
SCALE: NTS

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ANDY CHUNG, P.E.
STATE OF NEW YORK
12/4/2020
N.Y.P.E. LIC. NO. 084461 DATE

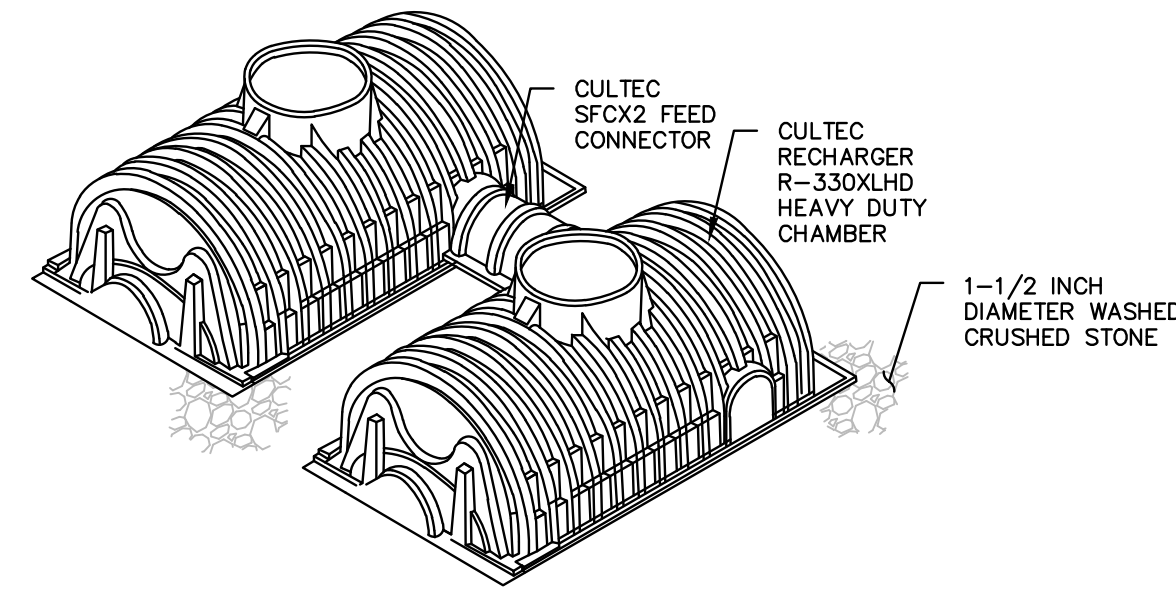
REV	DATE	DESCRIPTION

DRAWN BY: AC
DESIGNED BY: AC
CHECKED BY: AC
APPROVED BY: AC
DECEMBER 2020
DATE CREATED

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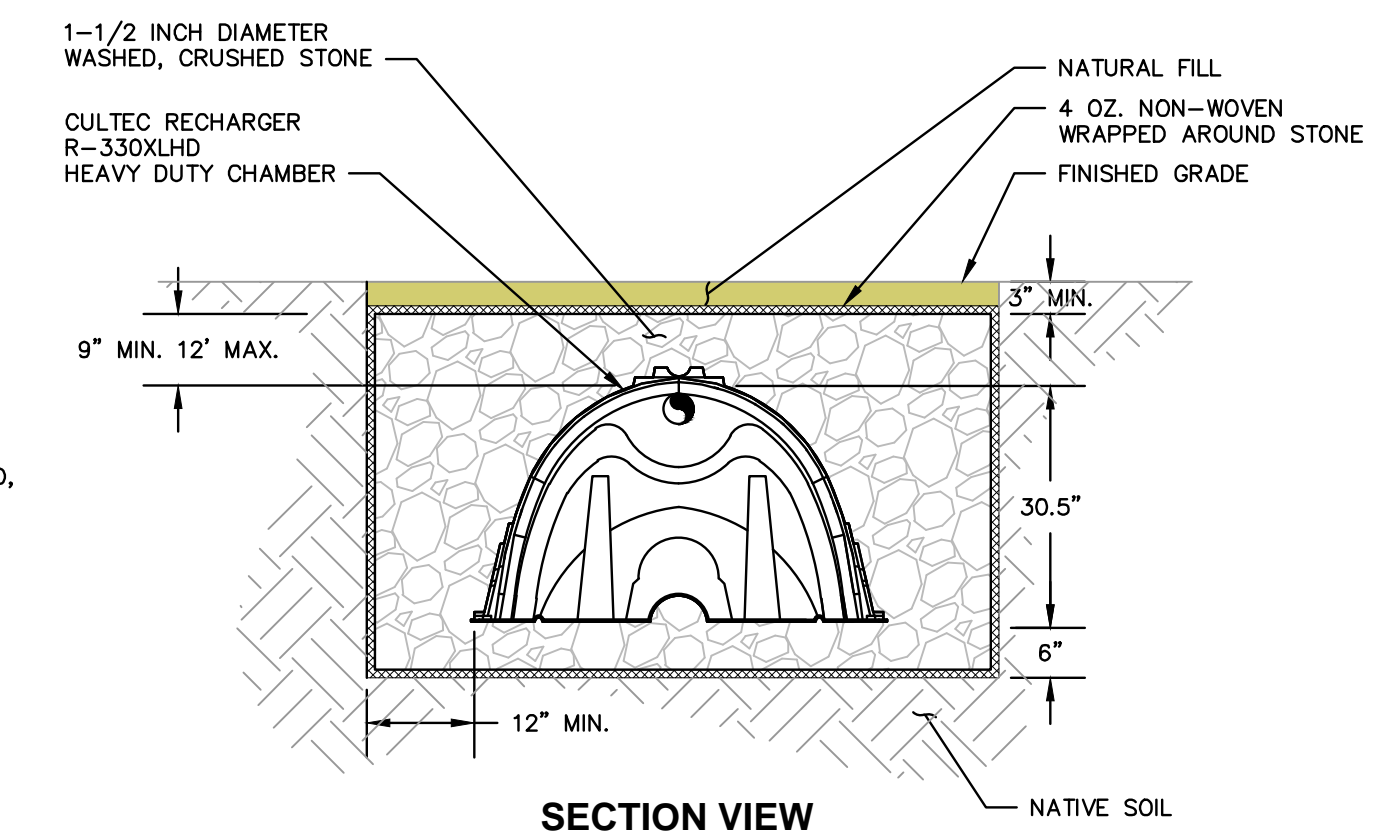
7 ROUND HOUSE ROAD
BEDFORD, NEW YORK 10506
SECTION 102.04 BLOCK 2 LOT 33
PROPOSED POOL AND PATIO
DETAILS

DRAWING NO. 2
PROJECT NO. BE-7RHR-MER-PO



ISOMETRIC VIEW INFILTRATION CHAMBER

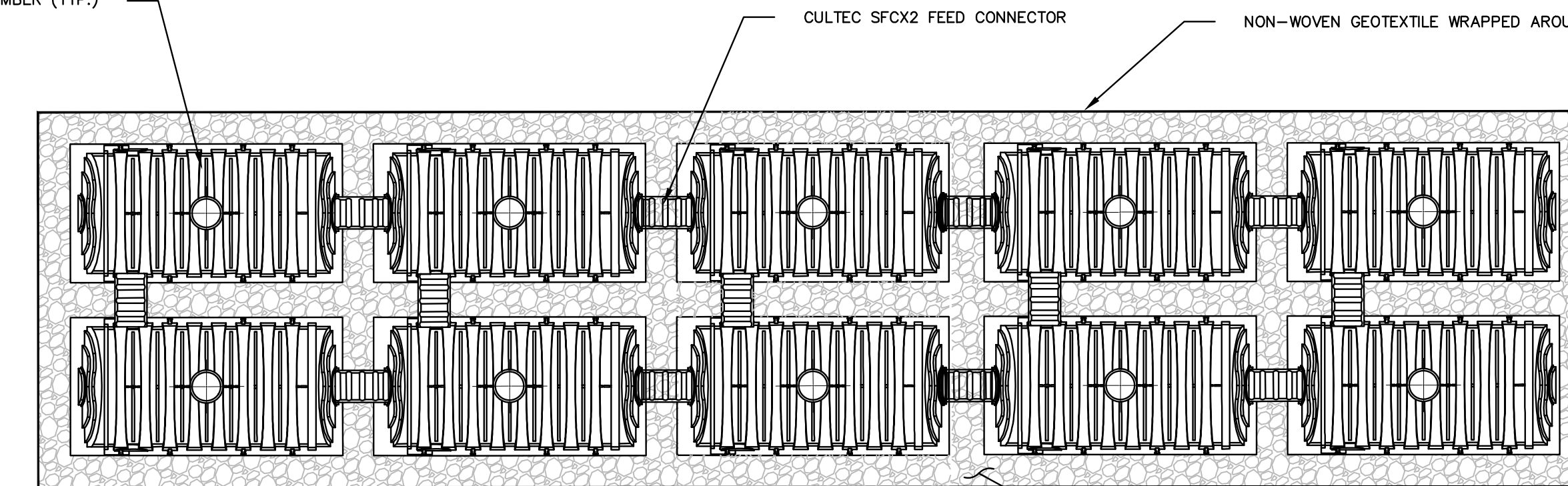
DETAIL ISO
SCALE: 1"=4'



SECTION VIEW INFILTRATION CHAMBER

DETAIL IC
SCALE: 1"=2'

CULTEC RECHARGER R-330XLHD HEAVY DUTY CHAMBER (TYP.)



PLAN VIEW INFILTRATION CHAMBER

DETAIL CT
SCALE: 1"=4'

Pond 2P: Infiltration - Chamber Wizard Field A

Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD)
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
Row Length Adjustment= +1.50' x 7.45 sf x 2 rows

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

3 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 22.50' Row Length +12.0" End Stone x 2 = 24.50' 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

6 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 2 Rows = 335.3 cf Chamber Storage

968.9 cf Field - 335.3 cf Chambers = 633.6 cf Stone x 40.0% Voids = 253.5 cf Stone Storage

Chamber Storage + Stone Storage = 588.8 cf = 0.014 af

Overall System Efficiency = 60.8%

Overall System Size = 24.50' x 11.17' x 3.54'

6 Chambers
35.9 cy Field
23.5 cy Stone

Summary for Subcatchment 1S: patio area

[46] Hint: Tc=0 (Instant runoff peak depends on dt)

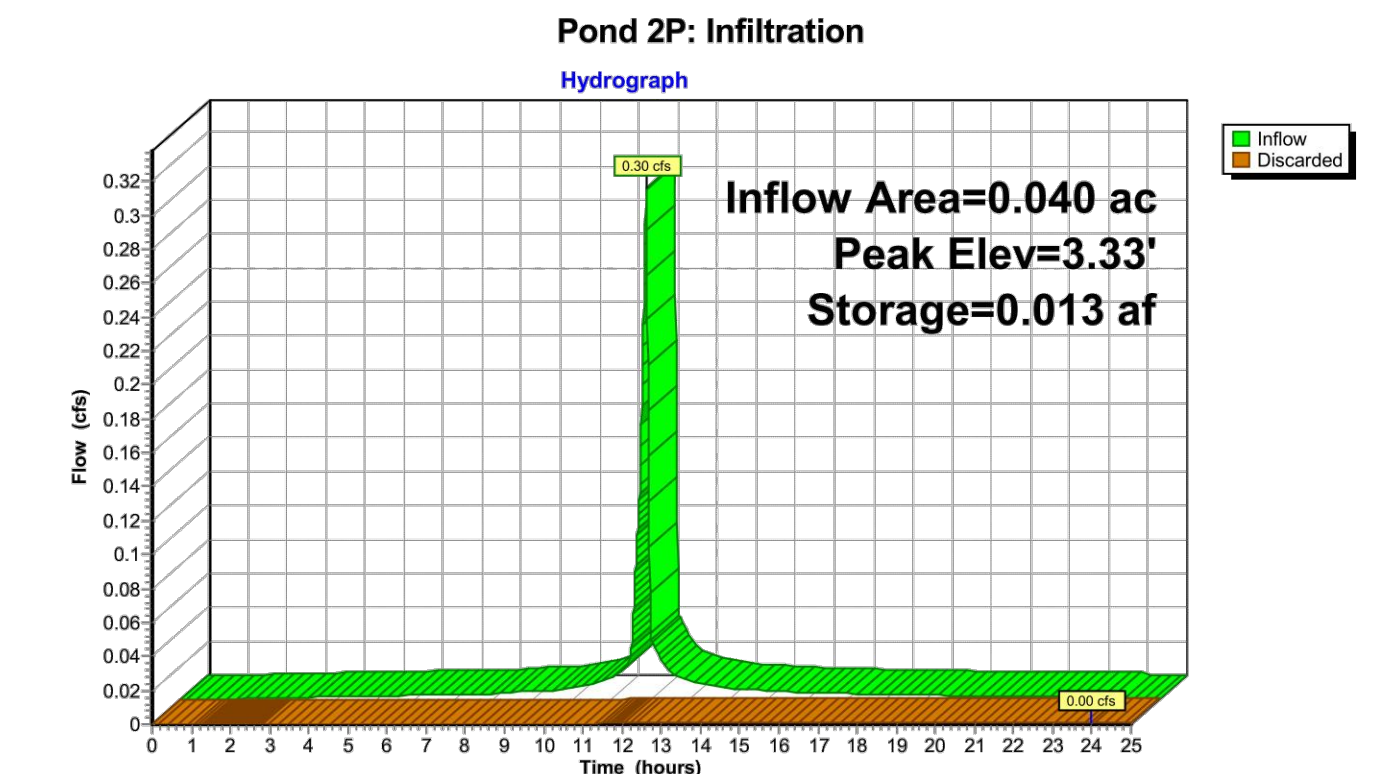
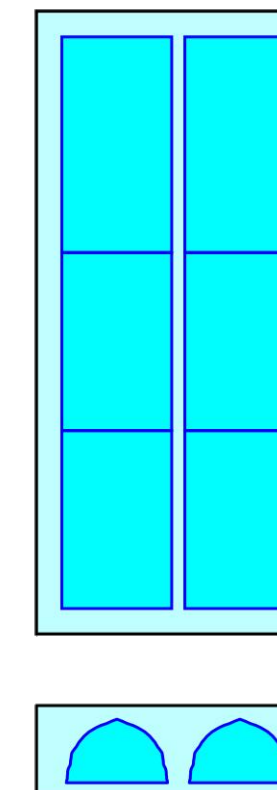
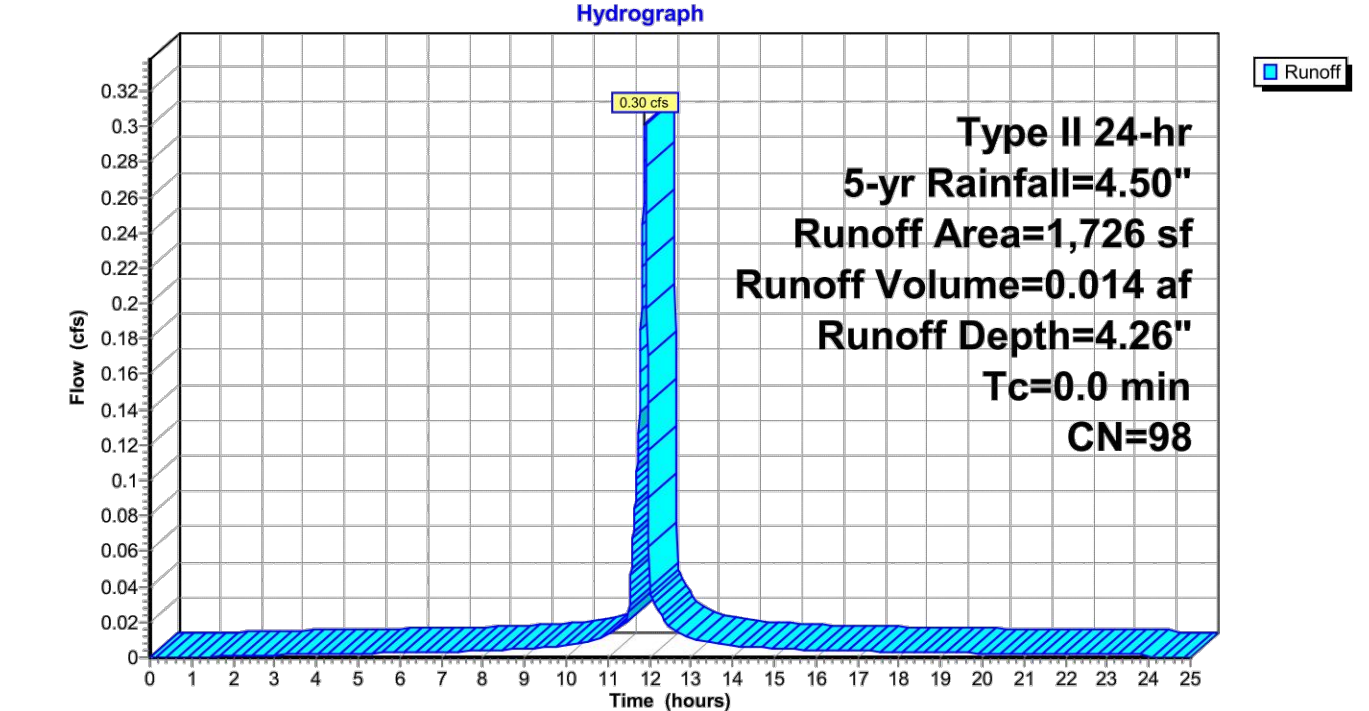
Runoff = 0.30 cfs @ 11.90 hrs, Volume= 0.014 af, Depth= 4.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-25.00 hrs, dt= 0.01 hrs

Type II 24-hr 5-yr Rainfall=4.50"

Area (sf)	CN	Description
1,726	98	100.00% Impervious Area
1,726		

Subcatchment 1S: patio area



1" = 1/2" = 0" 1" 1/2" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"