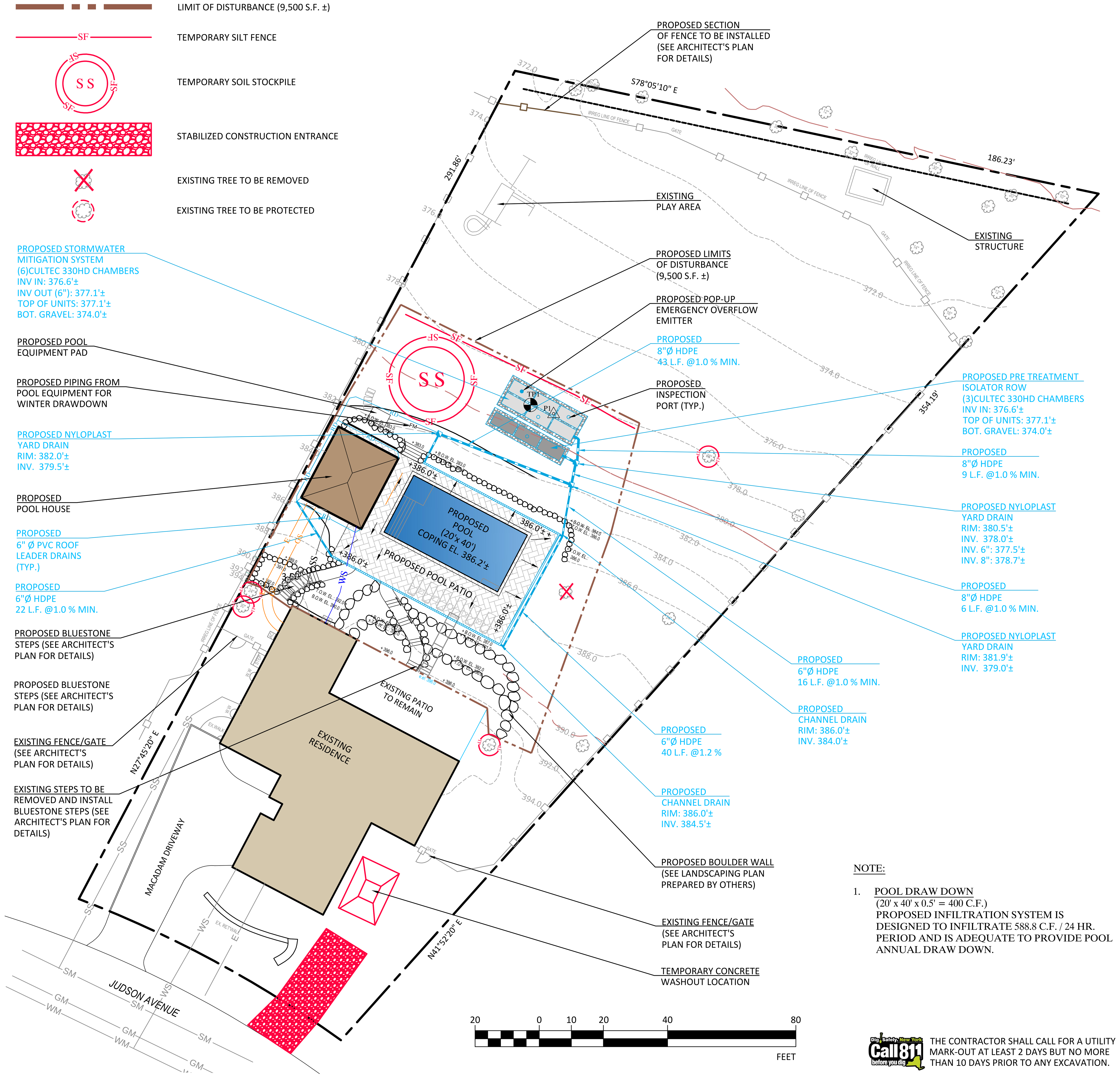
LEGEND

- EXISTING PROPERTY LINE
- EXISTING 2' CONTOUR
- 320 — EXISTING 10' CONTOUR
- EXISTING RESIDENCE
- PROPOSED STRUCTURES
- SS — APPROXIMATE LOCATION OF EXISTING SEWER SERVICE
- WS — APPROXIMATE LOCATION OF EXISTING WATER SERVICE
- E — APPROXIMATE LOCATION OF UNDERGROUND EXISTING ELECTRICAL SERVICE
- SS — PROPOSED SEWER SERVICE
- WS — PROPOSED WATER SERVICE
- E — PROPOSED ELECTRICAL SERVICE
- GS — PROPOSED GAS SERVICE
- LIMIT OF DISTURBANCE (9,500 S.F. ±)
- SF — TEMPORARY SILT FENCE
- SS — TEMPORARY SOIL STOCKPILE
- STABILIZED CONSTRUCTION ENTRANCE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED

DEEP TEST PIT RESULTS ON 12/17/2021		
TEST PIT	DEPTH FROM SURFACE	SOIL DESCRIPTION
TP-1	0" - 18" 18"-36" 36"-96"	TOPSOIL RED/BROWN MEDIUM SANDY LOAM BROWN COARSE SANDS W/ GRAVEL/COBBLES

PERCOLATION TEST RESULTS ON 12/17/2021	
PERC HOLE #	PERC RATE
P1 - 59" TOTAL DEPTH	9.00 MIN/INCH

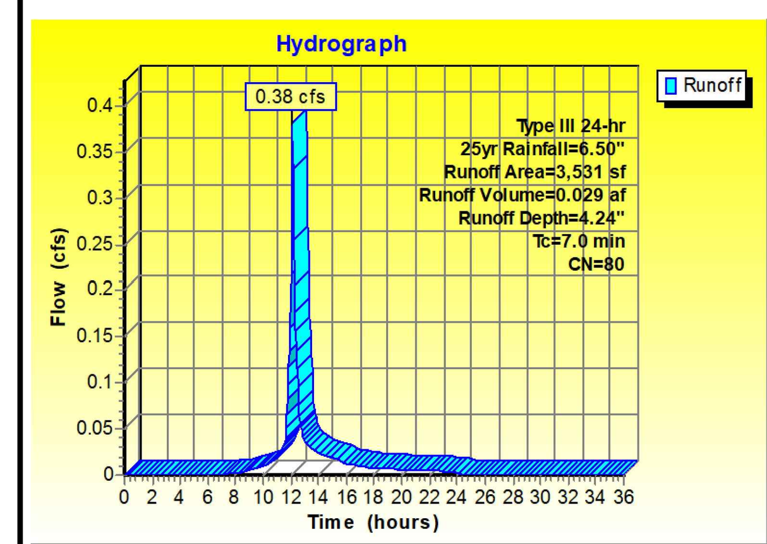


NOTE:

1. POOL DRAW DOWN
(20' x 40' x 0.5' = 400 C.F.)
PROPOSED INFILTRATION SYSTEM IS DESIGNED TO INFILTRATE 588.8 C.F. / 24 HR. PERIOD AND IS ADEQUATE TO PROVIDE POOL ANNUAL DRAW DOWN.

Dig Safely. New York Call811 before you dig — THE CONTRACTOR SHALL CALL FOR A UTILITY MARK-OUT AT LEAST 2 DAYS BUT NO MORE THAN 10 DAYS PRIOR TO ANY EXCAVATION.

PRE-DEVELOPMENT HYDROGRAPH (25-YEAR STORM)



Summary for Subcatchment 1EX: PRE

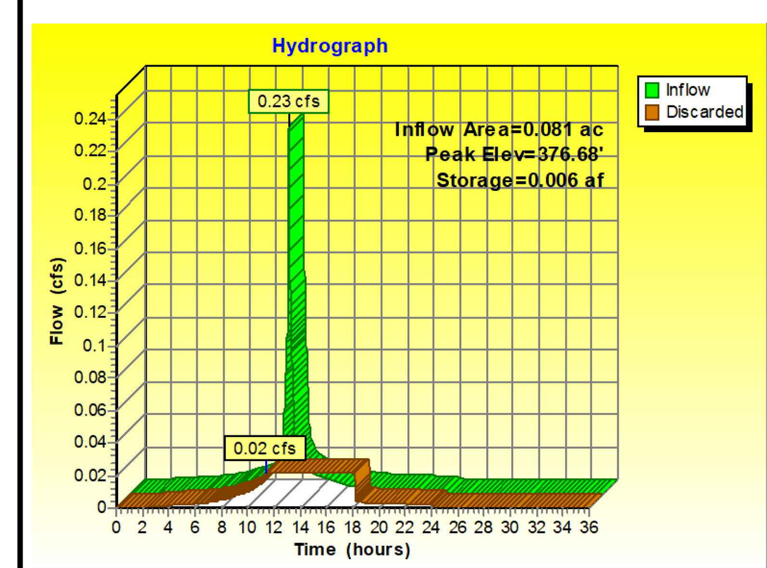
Runoff = 0.38 cfs @ 12.10 hrs, Volume= 0.029 af, Depth= 4.24"
Routed to Link 1DP-EX : PRE DESIGN POINT

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Type III 24-hr 25yr Rainfall=6.50"

Area (sf)	CN	Description
3,531	80	>75% Grass cover, Good, HSG D
3,531		100.00% Pervious Area

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

PRE TREATMENT HYDROGRAPH (1-YEAR STORM)



Summary for Subcatchment 1: Prop Imperv

Runoff = 0.23 cfs @ 12.07 hrs, Volume= 0.017 af, Depth= 2.57"
Routed to Pond WqV : PRETREATMENT

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YR Rainfall=2.80"

	Area (sf)	CN	Description
*	533	98	Roofs, HSG D
*	2,998	98	Pool/Patio/Walks, HSG D
	3,531	98	Weighted Average
	3,531		100.00% Impervious Area

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

Summary for Pond WqV: PRETREATMENT

Inflow Area = 0.081 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YR event
Inflow = 0.23 cfs @ 12.07 hrs, Volume= 0.017 af
Outflow = 0.02 cfs @ 11.39 hrs, Volume= 0.017 af, Atten= 91%, Lag= 0.0 min
Discarded = 0.02 cfs @ 11.39 hrs, Volume= 0.017 af

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.01 hrs
Peak Elev= 376.68' @ 12.84 hrs Surf.Area= 0.004 ac Storage= 0.006 af

Plug-Flow detention time= 80.3 min calculated for 0.017 af (100% of inflow)
Center-of-Mass det. time= 80.3 min (838.7 - 758.4)

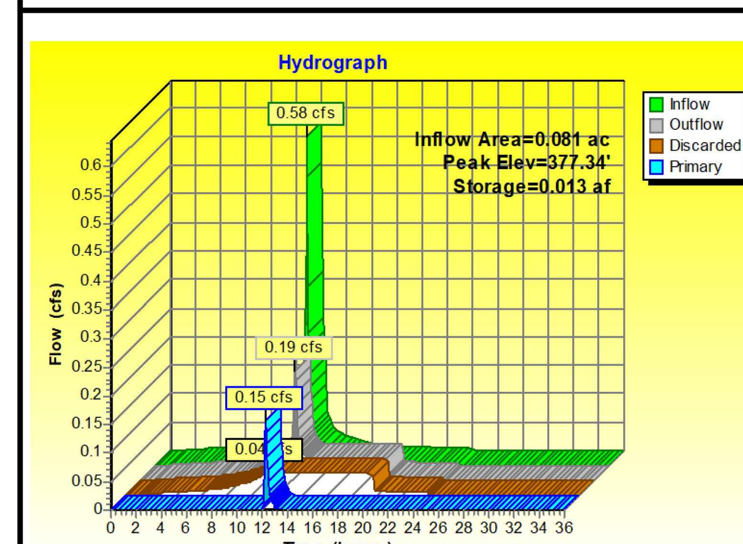
Volume	Invert	Avail.Storage	Storage Description
#1A	374.10'	0.004 af	**6.33'W x 24.50'L x 3.54'H Field A** 0.013 af Overall - 0.004 af Embedded = 0.009 af x 40.0% Voids
#2A	374.60'	0.004 af	**Cultec R-330XLHD** x 3 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 1 rows
		0.007 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	374.10'	**6.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.02 cfs @ 11.39 hrs HW=374.14' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

POST-DEVELOPMENT HYDROGRAPH (25-YEAR STORM)



Summary for Subcatchment 1PR: POST

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.58 cfs @ 12.01 hrs, Volume= 0.042 af, Depth= 6.26"
Routed to Pond 1P : CULTEC SYSTEM

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Type III 24-hr 25yr Rainfall=6.50"

	Area (sf)	CN	Description
	533	98	Roofs, HSG D
*	2,998	98	Pool/Patio/Walks, HSG D
	3,531	98	Weighted Average
	3,531		100.00% Impervious Area

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

Summary for Pond 1P: CULTEC SYSTEM

Inflow Area = 0.081 ac,100.00% Impervious, Inflow Depth = 6.26" for 25yr event
Inflow = 0.58 cfs @ 12.01 hrs, Volume= 0.042 af
Outflow = 0.19 cfs @ 12.27 hrs, Volume= 0.042 af, Atten= 67%, Lag= 15.6 min
Discarded = 0.04 cfs @ 11.05 hrs, Volume= 0.039 af
Primary = 0.15 cfs @ 12.27 hrs, Volume= 0.003 af
Routed to Link 1DP-PR : POST DESIGN POINT

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs
Peak Elev= 377.34' @ 12.27 hrs Surf.Area= 0.006 ac Storage= 0.013 af

Plug-Flow detention time= 90.6 min calculated for 0.042 af (100% of inflow)
Center-of-Mass det. time= 90.5 min (829.8 - 739.3)

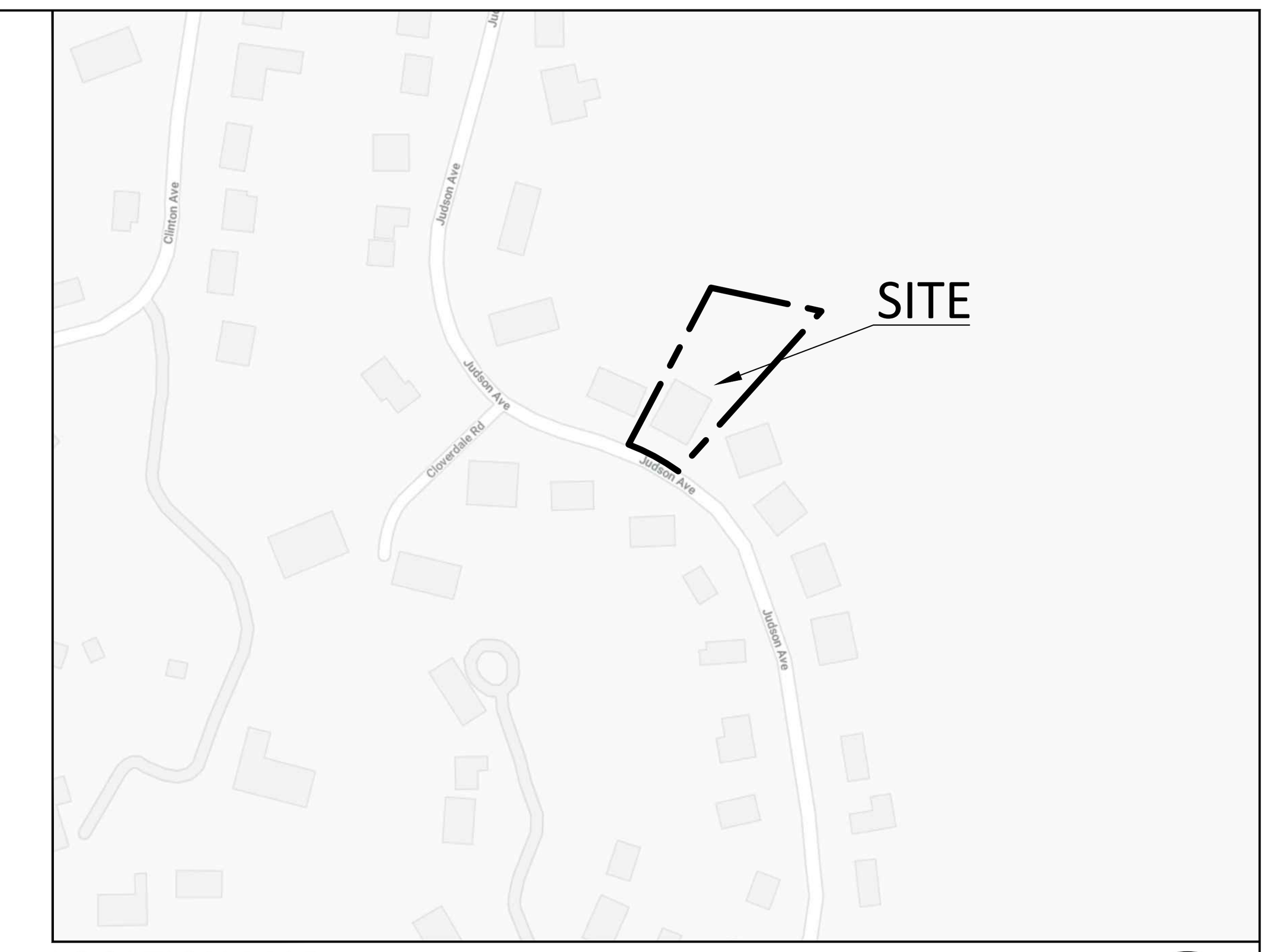
Volume	Invert	Avail.Storage	Storage Description
#1A	374.10'	0.006 af	**11.17'W x 24.50'L x 3.54'H Field A** 0.022 af Overall - 0.008 af Embedded = 0.015 af x 40.0% Voids
#2A	374.60'	0.008 af	**Cultec R-330XLHD** x 6 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 2 rows
		0.014 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	377.10'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	374.10'	**6.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.04 cfs @ 11.05 hrs HW=374.14' (Free Discharge)
└**2=Exfiltration** (Exfiltration Controls 0.04 cfs)

Primary OutFlow Max=0.14 cfs @ 12.27 hrs HW=377.33' (Free Discharge)
└**1=Orifice/Grate** (Orifice Controls 0.14 cfs @ 1.62 fps)



LOCATION MAP
NOT TO SCALE

SITE DATA:

OWNER:	CRAIG PHILIPS 107 JUDSON AVENUE DOBBS FERRY, N.Y.
PROJECT SITE:	107 JUDSON AVENUE DOBBS FERRY, N.Y.
TAX MAP ID NUMBER:	SECTION 3.130, BLOCK 120, LOT 2
LOT AREA:	± 0.96 AC (± 41,896 SF)
ZONING DISTRICT:	OF-3 (ONE FAMILY RESIDENTIAL 3)
FIRE DISTRICT:	DOBBS FERRY FIRE DISTRICT
SCHOOL DISTRICT:	DOBBS FERRY SCHOOL DISTRICT
WATER SUPPLY:	UNITED WATER NEW ROCHELLE-WEST
SANITARY SEWER:	NORTH YONKERS SEWER DISTRICT

VILLAGE OF DOBBS FERRY SITE PLAN NOTES:

1. THE VILLAGE ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF DEEMED APPROPRIATE TO MITIGATE UNFORESEEN SILTATION AND EROSION OF DISTURBED SOILS
2. AS BUILT PLANS OF THE PROPOSED DRAINAGE IMPROVEMENTS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER FOR REVIEW PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY
3. "BEFORE THE SITE PLAN IS SIGNED BY THE CHAIRMAN OF THE PLANNING BOARD, THE APPLICANT SHALL BE REQUIRED TO POST A PERFORMANCE BOND OR OTHER TYPE OF ACCEPTABLE MONETARY GUARANTY WHICH SHALL BE IN AN AMOUNT ACCEPTABLE TO THE PLANNING BOARD AND THE VILLAGE ENGINEER AND IN A FORM SATISFACTORY TO THE VILLAGE ATTORNEY.
4. THE APPLICANT SHALL NOTIFY THE BUILDING DEPARTMENT OR VILLAGE CONSULTING ENGINEER IN WRITING AT LEAST 48 HOURS BEFORE ANY OF THE FOLLOWING POINTS OF CONSTRUCTION TO PERMIT ADEQUATE TIME FOR INSPECTIONS TO BE PERFORMED:
   a. START OF CONSTRUCTION
   b. INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES
   c. COMPLETION OF SITE CLEARING
   d. COMPETITION OF ROUGH GRADING
   e. INSTALLATION OF SMPS
   f. COMPLETION OF FINAL GRADING AND STABILIZATION OF DISTURBED AREAS
   g. CLOSURE OF CONSTRUCTION
   h. COMPLETE OF FINAL LANDSCAPING AND SUCCESSFUL ESTABLISHMENT OF LANDSCAPING
5. "THE OWNER OR OPERATOR SHALL HAVE A QUALIFIED INSPECTOR INSPECT AND DOCUMENT THE EFFECTIVENESS OF ALL EROSION AND SEDIMENTATION CONTROL PRACTICES AND PREPARE INSPECTION REPORTS AT LEAST ONCE A WEEK. THESE REPORTS MUST BE KEPT ON SITE AND AVAILABLE FOR REVIEW".

GENERAL NOTES:

1. EXISTING CONDITIONS, STRUCTURE AND PROPERTY LINES, AND TOPOGRAPHY OBTAINED FROM SURVEY PREPARED BY SUMMIT LAND SURVEYING, P.C.
2. SEE PLANS PREPARED BY THE HAYNES ARCHITECTURE, P.C. FOR INFORMATION ON THE POOL DESIGN, PATIO/FENCE DETAILS AND LANDSCAPING.

PROPOSED STORM WATER PLAN

PHILIPS 107 JUDSON AVENUE

VILLAGE OF DOBBS FERRY — WESTCHESTER COUNTY, NEW YORK

KELLARD SESSIONS
CONSULTING ENGINEERING & LANDSCAPE ARCHITECTURE PLANNING, D.P.C.
500 MAIN STREET
ARMONK, N.Y. 10504
P: (914) 273-2323
F: (914) 273-2329
WWW.KELSES.COM

STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 058736

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PROJECT I.D.: DFPHILIPS100
DATE: JANUARY 06, 2022

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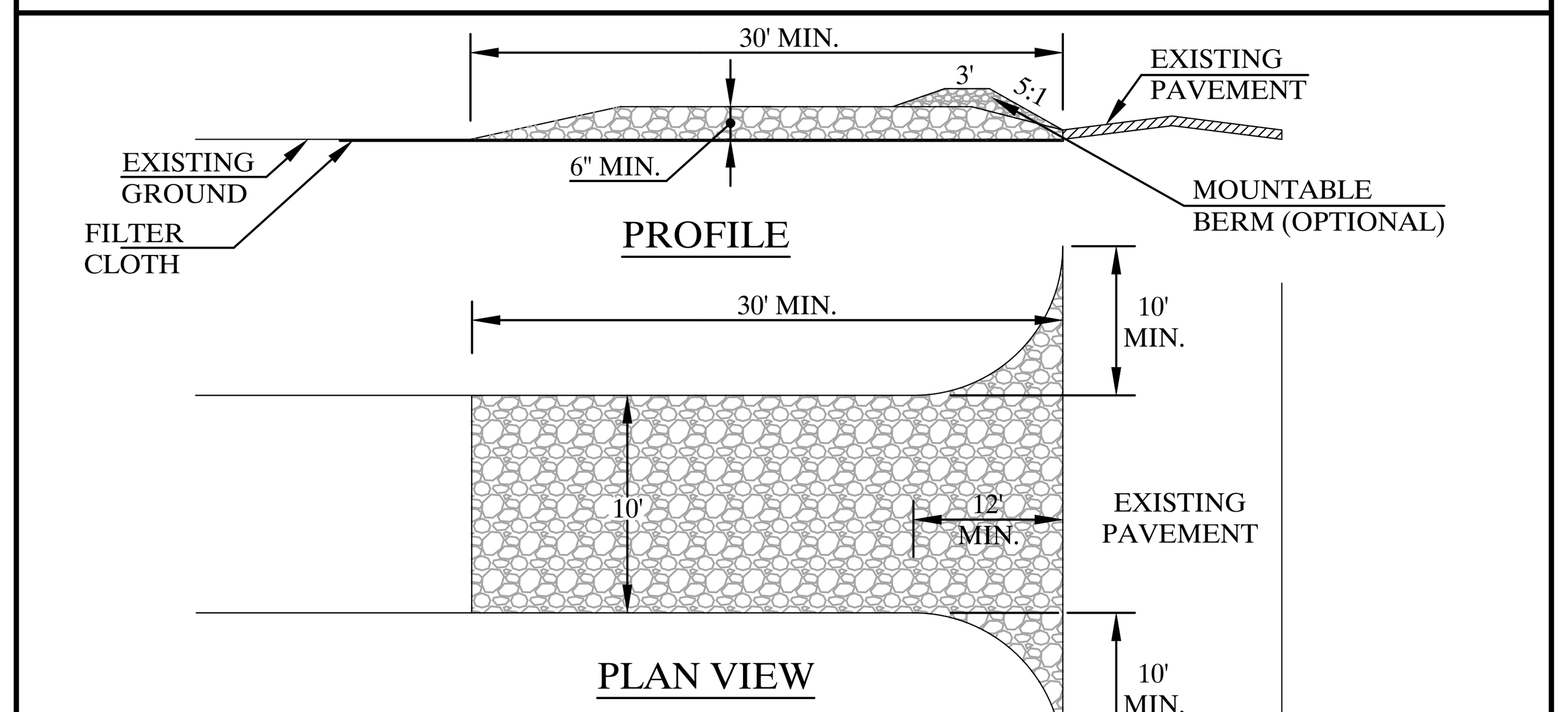
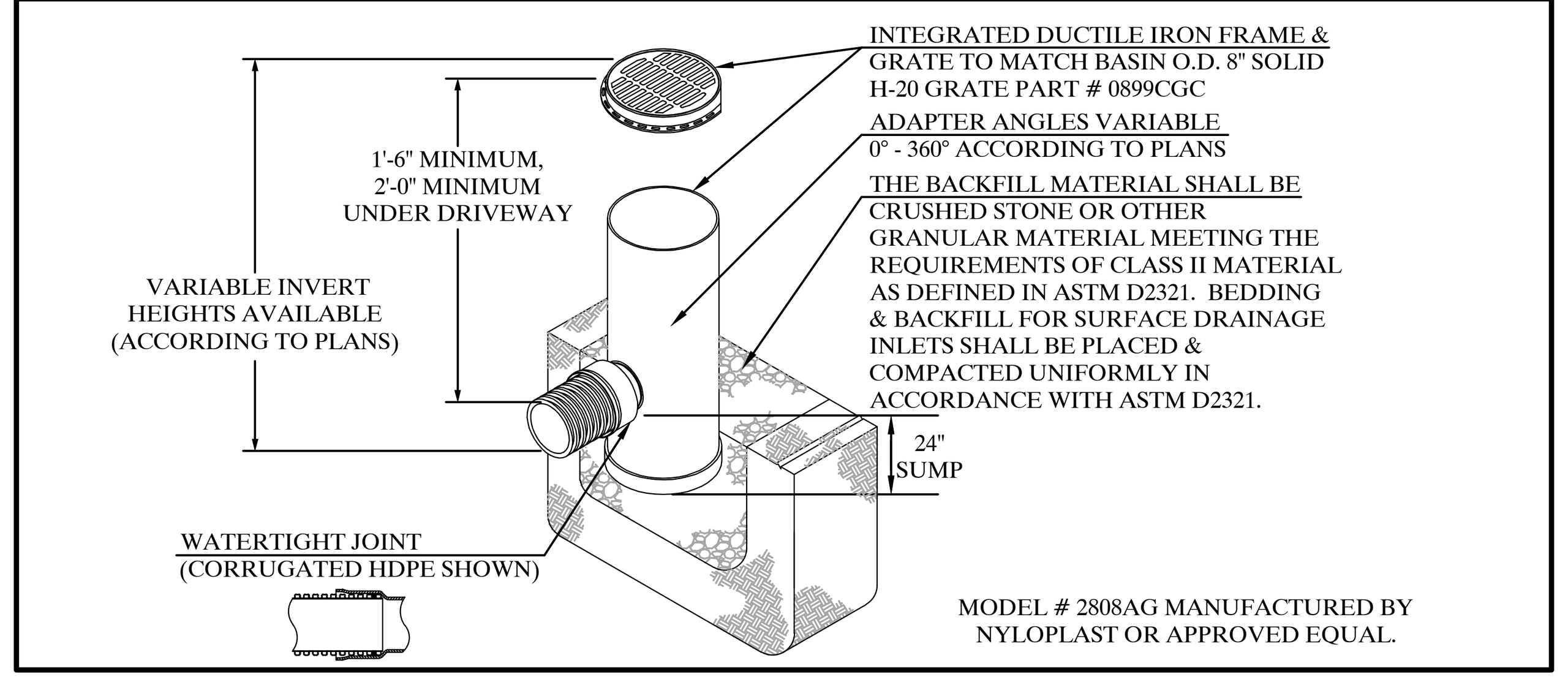
STABILIZED CONSTRUCTION ENTRANCE DETAIL (N.T.S.)



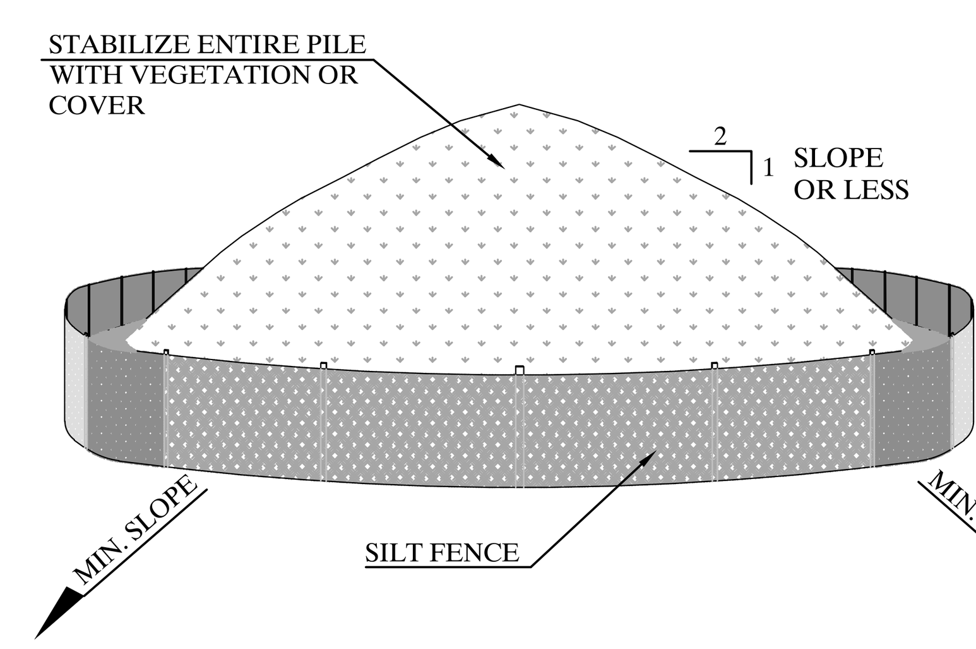
CONSTRUCTION SPECIFICATIONS

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 - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
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 CON- STRUCTION 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 TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A 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.

NYOPLAST DRAINAGE BASIN DETAIL (N.T.S.)

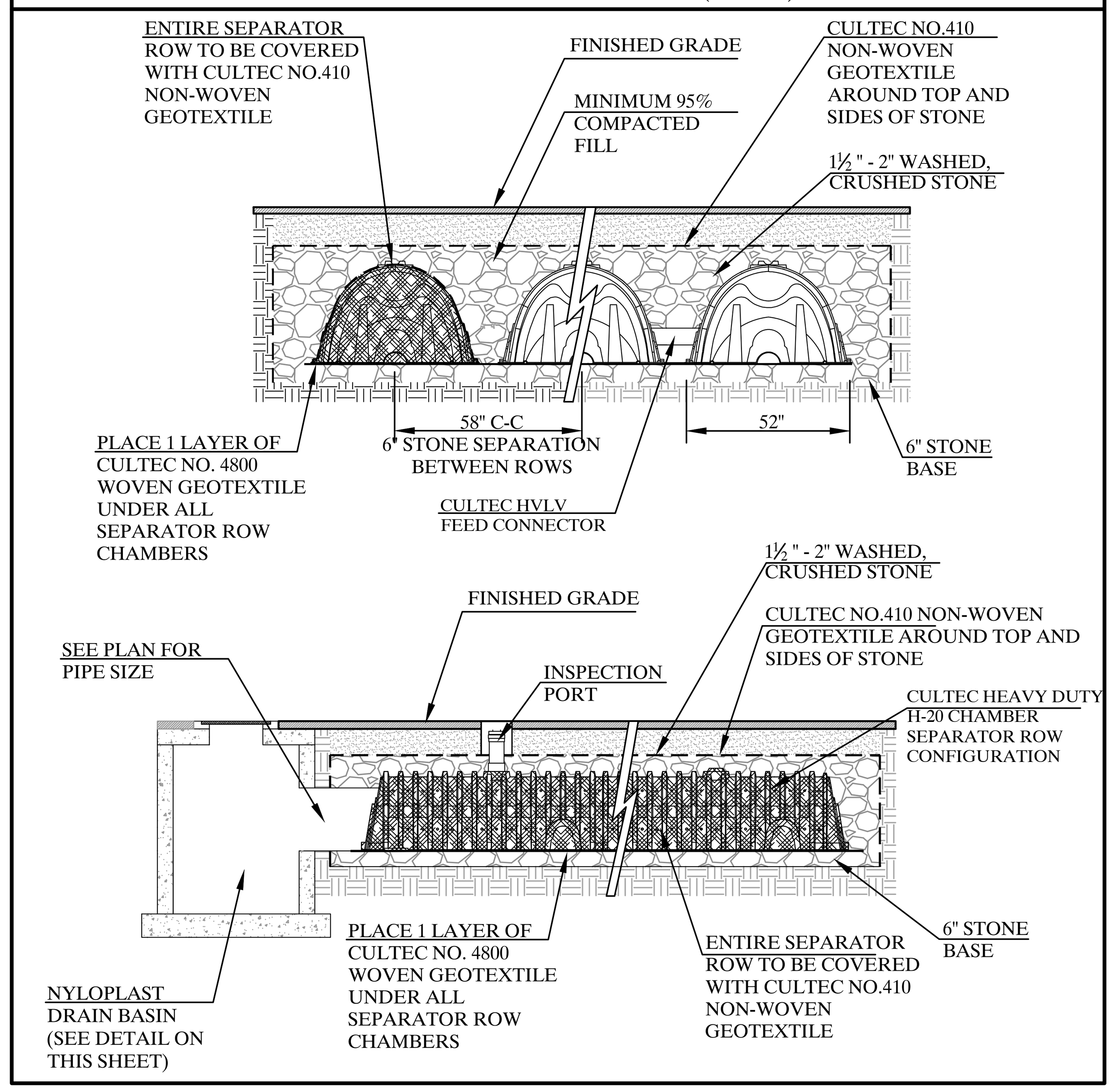


TEMPORARY SOIL STOCKPILE DETAIL (N.T.S.)

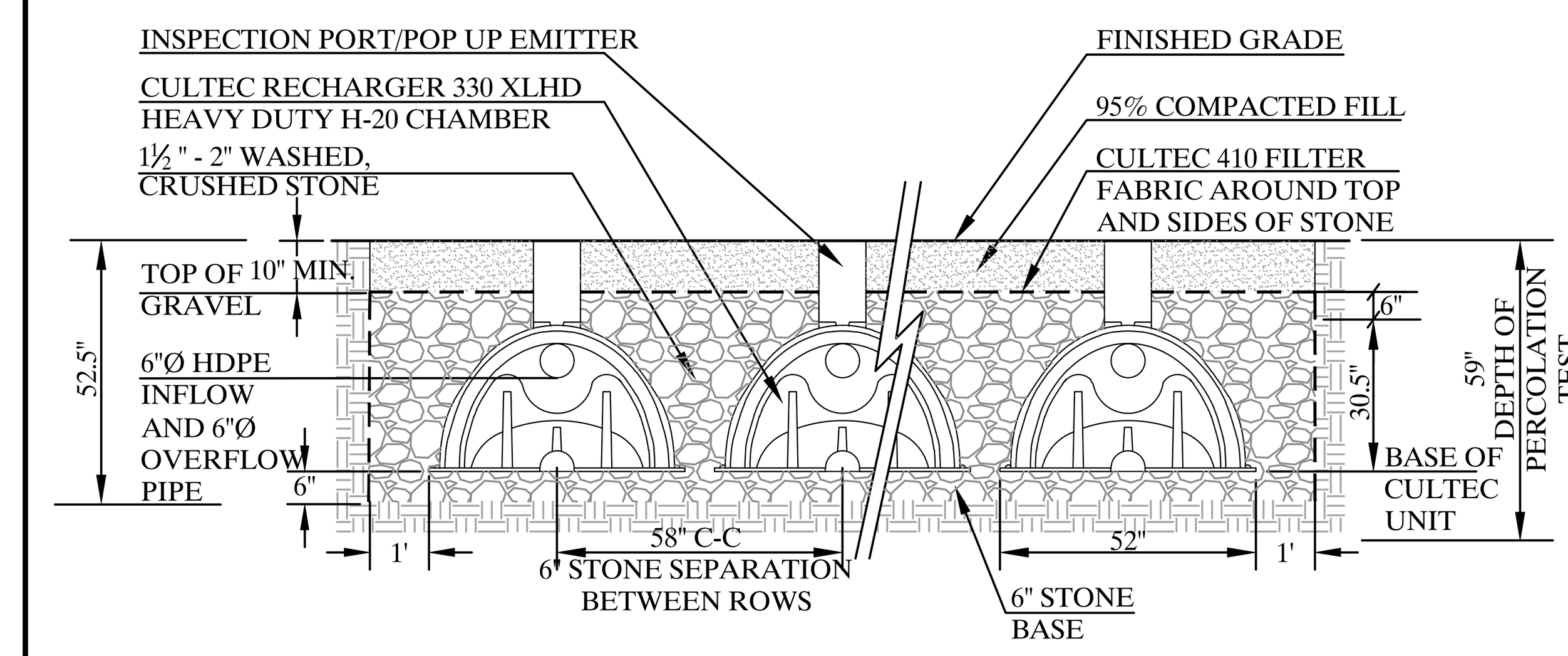


INSTALLATION NOTES
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION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

UNDERGROUND CULTEC HEAVY DUTY ISOLATOR ROW DETAIL (N.T.S.)



CULTEC 330 XL RECHARGER INFILTRATION SYSTEM CHAMBER TYPICAL DETAIL (N.T.S.)

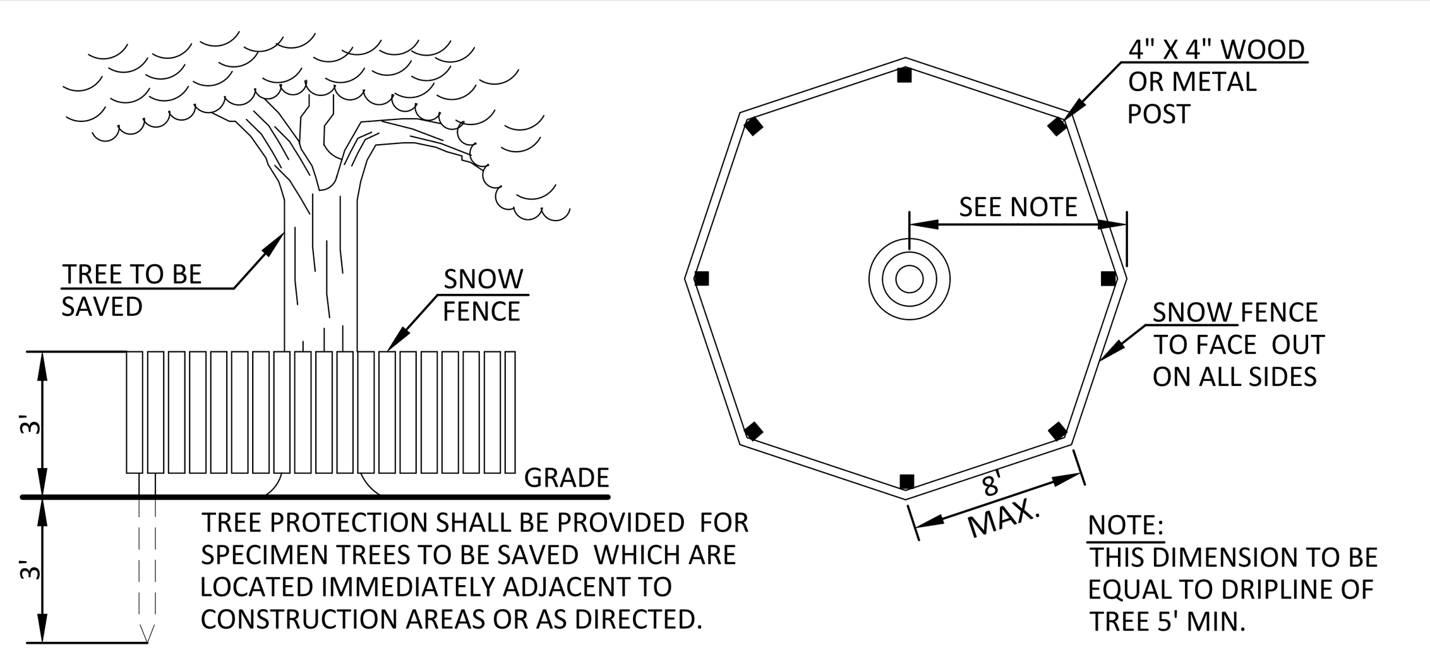


TYPICAL CROSS SECTION RECHARGER 330XL HD

NOTE:
DETAIL FOR TYPICAL INSTALLATION ONLY, REFER TO PLAN FOR LAYOUT & QUANTITY

GENERAL NOTES
1. RECHARGER™ 330 XL BY CULTEC, INC. OF BROOKFIELD, CT. ALL RECHARGER™ 330 XL CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER, CULTEC, INC.'S RECOMMENDED INSTALLATION GUIDELINES. ALL RECHARGER™ 330 XLHD H-20 HEAVY DUTY UNITS ARE MARKED WITH A 4" STRIPE ALONG THE LENGTH OF THE CHAMBER.
2. THE OUTFLOW PIPE SHOULD BE INSTALLED IN THE UPPER KNOCKOUT. REFER TO CULTEC RECHARGER ELEVATION VIEW INFILTRATION SYSTEM CHAMBER DETAIL.

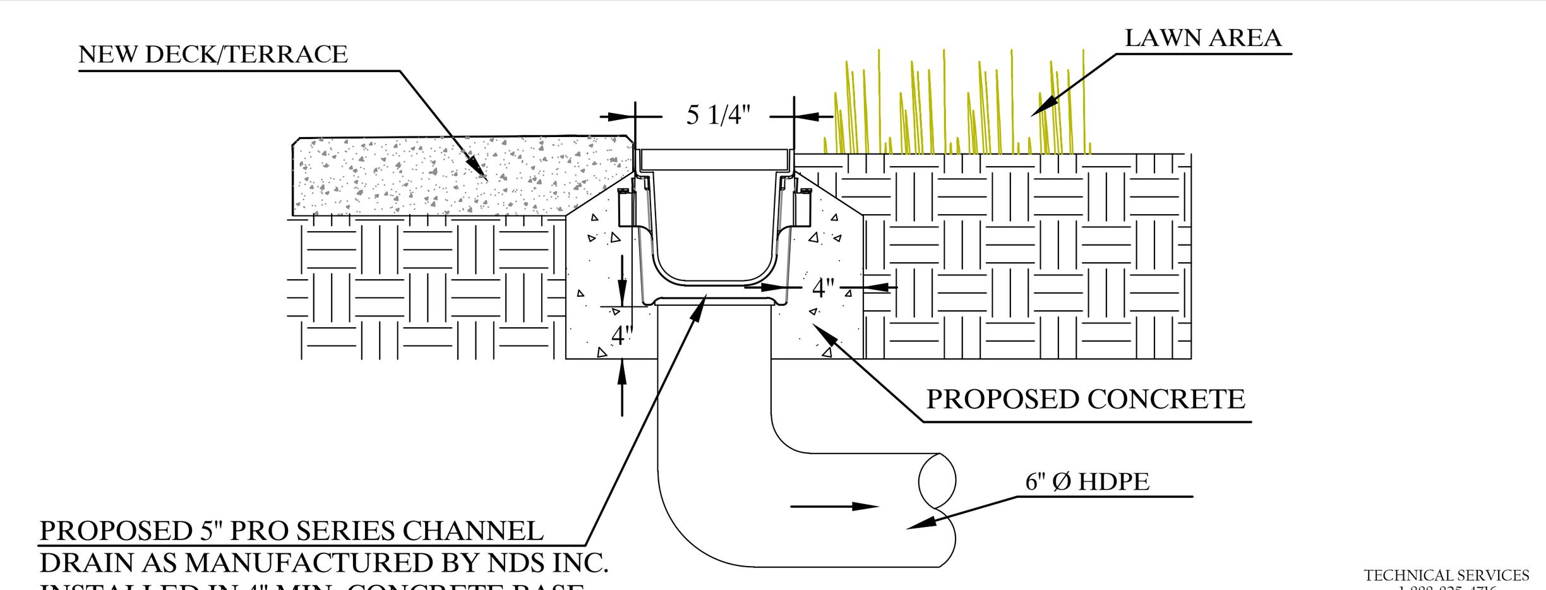
TREE PROTECTION DETAIL (N.T.S.)



TREE PROTECTION SHALL BE PROVIDED FOR SPECIMEN TREES TO BE SAVED WHICH ARE LOCATED IMMEDIATELY ADJACENT TO CONSTRUCTION AREAS OR AS DIRECTED.

NOTE:
THIS DIMENSION TO BE EQUAL TO DRIPLINE OF TREE 5' MIN.

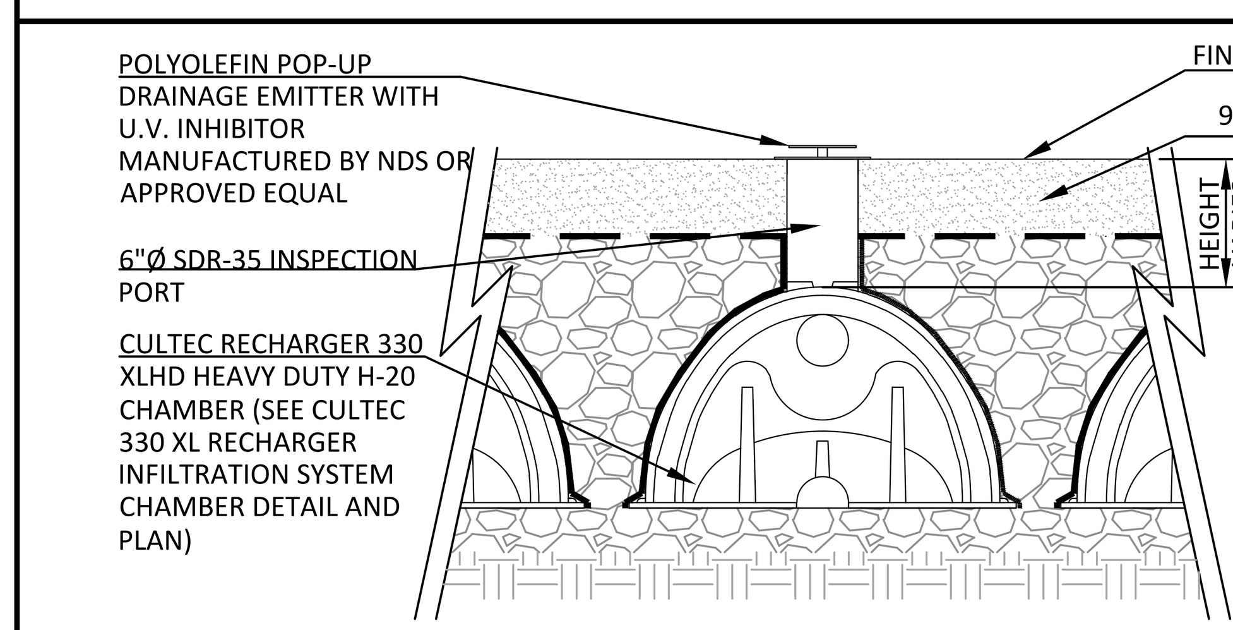
CHANNEL DRAIN DETAIL (N.T.S.)



PROPOSED 5" PRO SERIES CHANNEL DRAIN AS MANUFACTURED BY NDS INC. INSTALLED IN 4" MIN. CONCRETE BASE PER MANUFACTURER'S SPECIFICATIONS

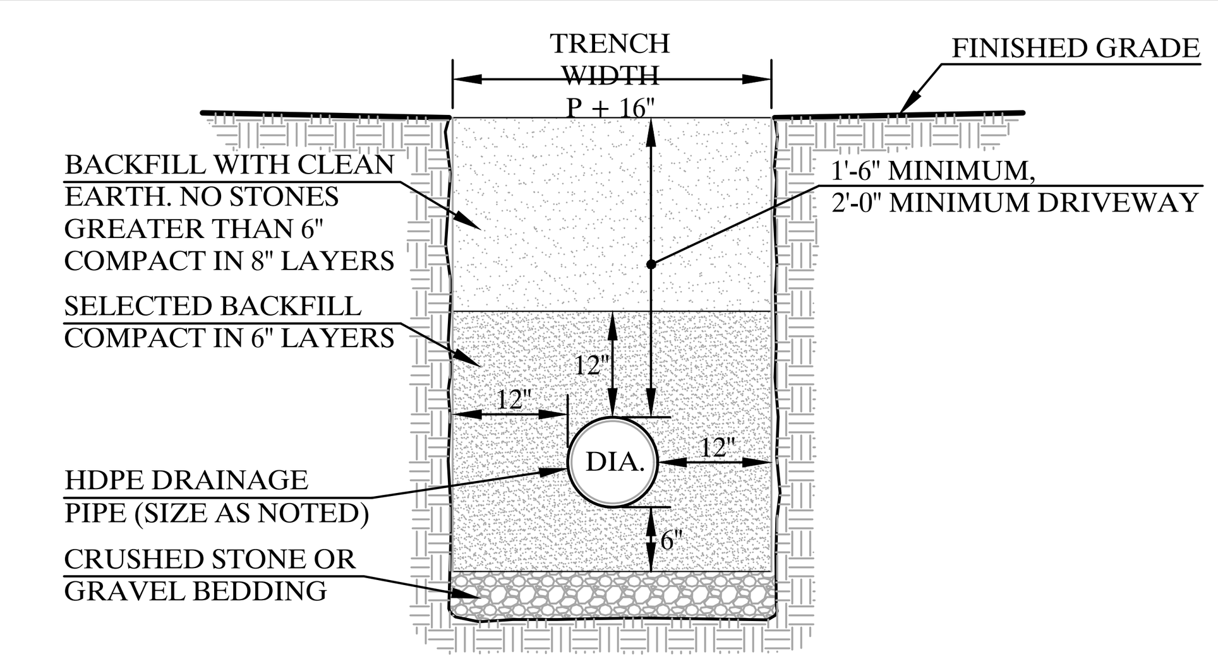
TYPICAL 5" PRO SERIES INSTALLATION AS MANUFACTURED BY NDS, INC.

POP-UP DRAINAGE EMITTER DETAIL (N.T.S.)

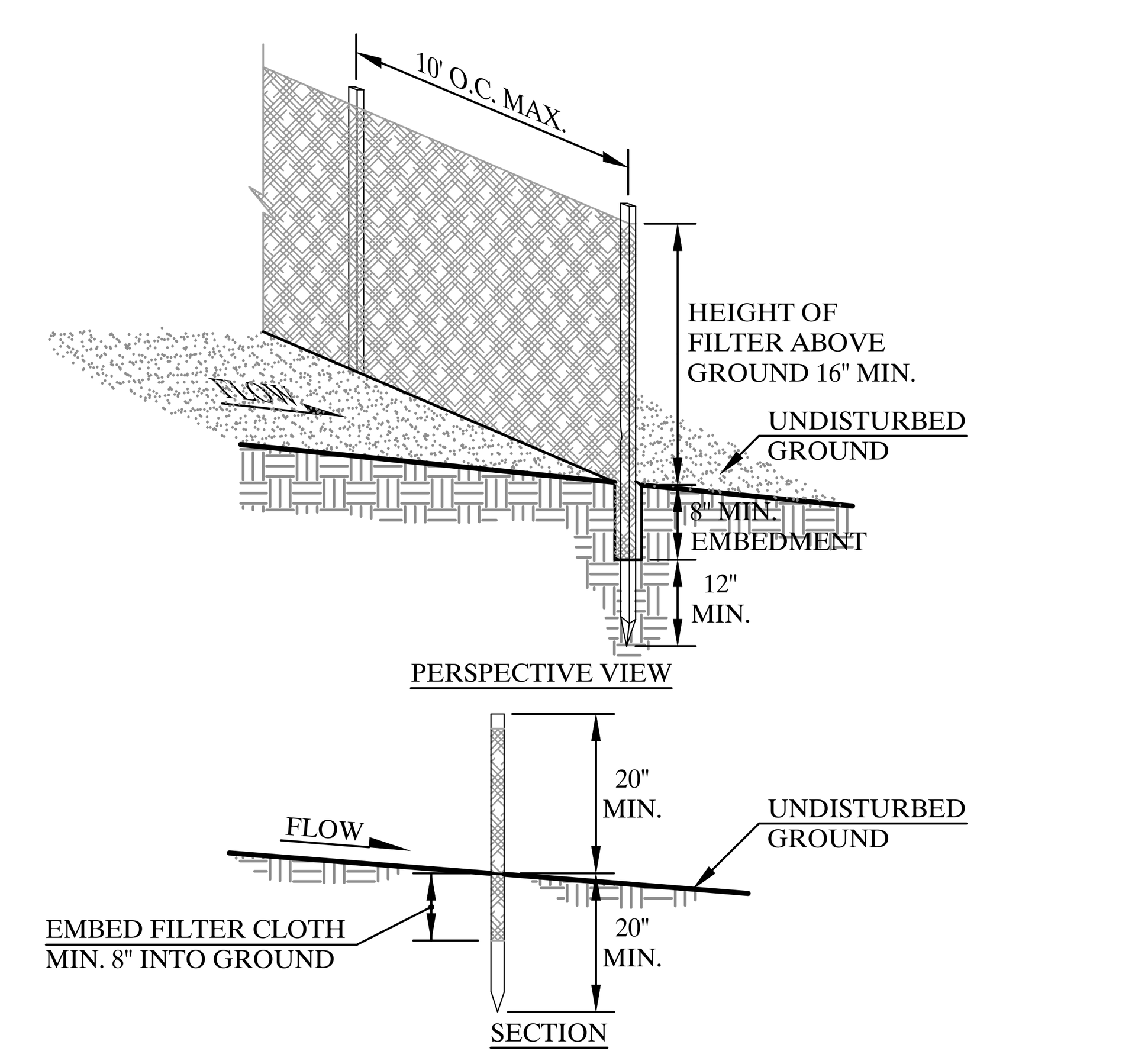


NOTE:
DETAIL FOR TYPICAL CULTEC RECHARGER 330 XLHD INSTALLATION ONLY, REFER TO PLAN FOR LAYOUT & QUANTITY

DRAINAGE TRENCH DETAIL (N.T.S.)



SILT FENCE DETAIL (N.T.S.)



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

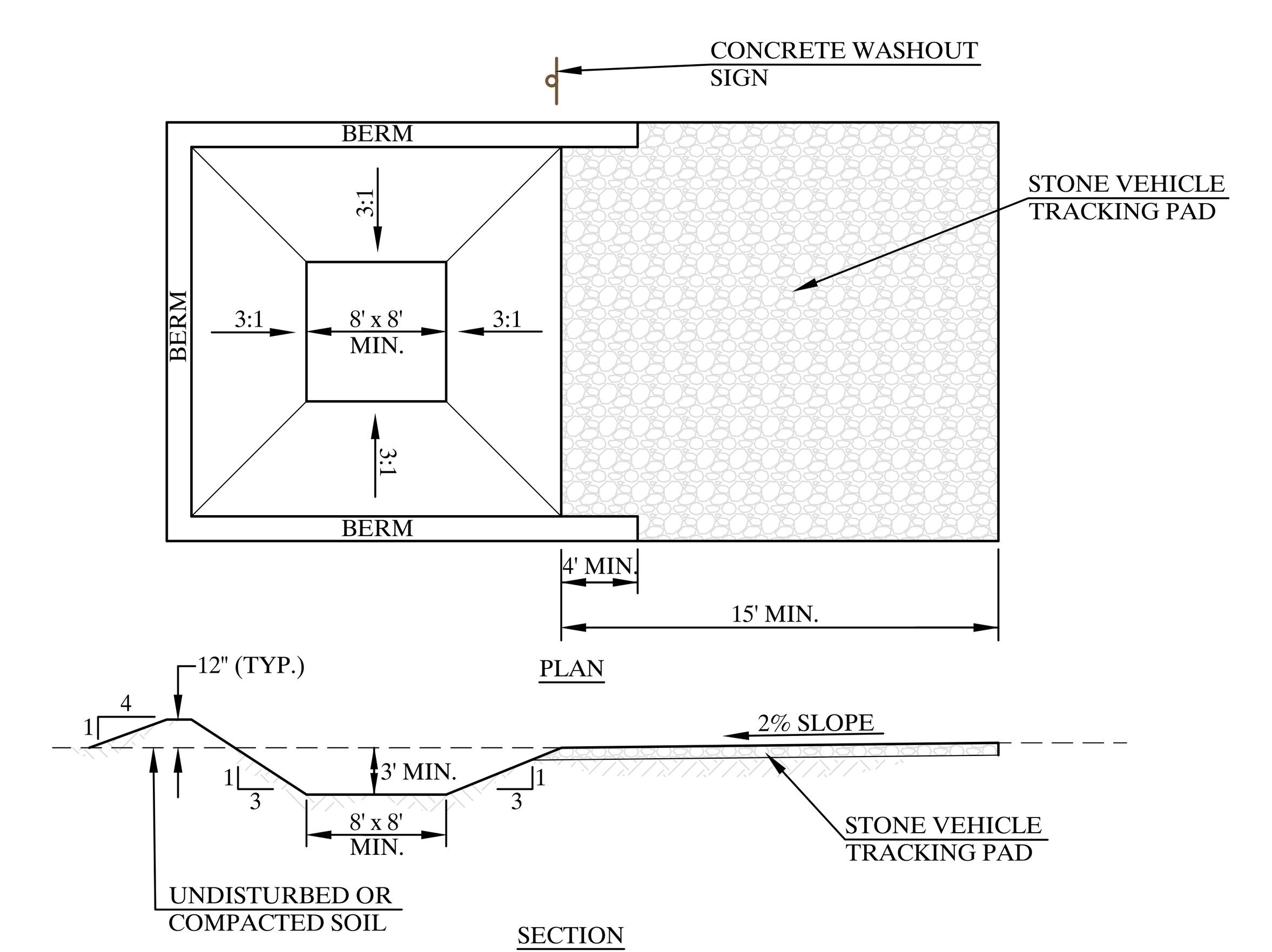
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

CONCRETE WASHOUT AREA DETAIL (N.T.S.)



NOTES:
1. SEE SHEET 1/2 FOR INSTALLATION LOCATION.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
3. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

Dig Safely. New York Call 811 before you dig
THE CONTRACTOR SHALL CALL FOR A UTILITY MARK-OUT AT LEAST 2 DAYS BUT NO MORE THAN 10 DAYS PRIOR TO ANY EXCAVATION.

CONSTRUCTION DETAILS

PHILIPS 107 JUDSON AVENUE

VILLAGE OF DOBBS FERRY — WESTCHESTER COUNTY, NEW YORK

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PROJECT I.D.: DFPHILIPS100

DATE: JANUARY 06, 2022

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KELLARD SESSIONS
CONSULTING, P.C.

DESIGN DATA SHEET - STORM WATER SYSTEM

OWNER PHILIPS, CRAIG ADDRESS 107 JUDSON AVE, DOBBS FERRY

PROPERTY LOCATION: 107 JUDSON AVENUE SEC. 3.130 BLK. 120 LOT. 2

MUNICIPALITY: DOBBS FERRY NYCDEP: JOINT REVIEW _____ DELEGATED _____

WATERSHED POCANTICO & SAWMILL RIVER

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

PRESOAK DATE: 12/17/2021 9:00 AM RUN DATE: 12/17/2021 9:48 AM

HOLE#		CLOCK TIME			PERCOLATION			
					DEPTH TO WATER FROM GROUND SURFACES			
HOLE NUMBER	RUN NO.	START	STOP	ELAPSE TIME MIN.	START INCHES	STOP INCHES	WATER LEVEL DROP IN INCHES	SOIL RATE MIN./IN DROP
PT-1	1	9:48	10:10	22:00	47"	50"	3"	7.3
59" Depth	2	10:11	10:38	27:00	47"	50"	3"	9.0
	3	10:41	11:08	27:00	47"	50"	3"	9.0
	4							
	5							
	1							
	2							
	3							
	4							
	5							
	1							
	2							
	3							
	4							
	5							

PERC TEST DONE BY: Kellard Sessions

NOTES:

1. TESTS TO BE REPEATED AT SAME DEPTH UNTIL APPROXIMATELY EQUAL SOIL RATES ARE OBTAINED AT EACH PERCOLATION TEST HOLE. ALL DATA TO BE SUBMITTED FOR REVIEW.

2. DEPTH MEASUREMENTS TO BE MADE FROM TOP OF HOLE. DO NOT REPORT INCREMENTS OF LESS THAN ONE INCH.

TEST PIT DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

DESCRIPTION OF SOILS ENCOUNTERED IN TEST HOLES

DEPTH	HOLE NO. TP-1	HOLE NO. _____	HOLE NO. _____	HOLE NO. _____
G.L.				
6"				
12"				
18"	18" TOPSOIL			
24"	Red/BN medium			
30"	SANDY LOAM			
36"	36"			
42"				
48"				
54"	BROWN			
60"	COARSE SAND			
66"	W/gravel +			
72"	cobbles			
78"				
84"				
90"				
96"	96"			

WAS GROUNDWATER ENCOUNTERED? YES / (NO)

INDICATE LEVEL AT WHICH GROUND WATER IS ENCOUNTERED — FT. / IN.

INDICATED LEVEL FOR WHICH WATER LEVEL RISES AFTER BEING ENCOUNTERED — FT. / IN.

DEEP TEST MADE BY: Kellard Sessions DATE OF DEEP TESTS 12/17/2021

SOIL RATE USED 9.0 MIN. / 1" DROP: S.D. USABLE AREA PROVIDED

INFILTRATION SYSTEM PROV. BY _____ UNITS OTHER _____

DESIGN PROFESSIONAL NAME John J. Kellard, PE SIGNATURE _____

ADDRESS 500 MAIN STREET
ARMONK, NY 10509

SEAL