

- GENERAL NOTES:**
1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
  2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987.
  3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO ACI, AISC, ZONING, AND THE NEW YORK STATE BUILDING CODE.
  4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
  5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
  6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
  7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
  8. SAFETY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL AGENCIES IN EFFECT DURING THE PERIOD OF CONSTRUCTION.
  9. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL MAKE APPLICATION TO RECEIVE ALL NECESSARY PERMITS TO PERFORM THE WORK UNDER CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE LICENSED TO DO ALL WORK AS REQUIRED BY THE LOCAL, COUNTY, AND STATE AGENCIES WHICH MAY HAVE JURISDICTION OVER THOSE TRADES, AND SHALL PRESENT THE OWNER WITH COPIES OF ALL LICENSES AND INSURANCE CERTIFICATES.
  10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
  11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
  12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
  13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS ADDITIONAL INSURED ON ALL POLICIES AND HOLD HARMLESS DOCUMENTS, AND SHALL STIPULATE THAT THIS INSURANCE IS PRIMARY, AND THAT ANY OTHER INSURANCE OR SELF-INSURANCE MAINTAINED BY HUDSON ENGINEERING & CONSULTING, P.C., SHALL BE EXCESS ONLY AND SHALL NOT BE CALLED UPON TO CONTRIBUTE WITH THIS INSURANCE. ISO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER CG2010-1185 UNDER G.L. COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO HUDSON ENGINEERING & CONSULTING, P.C., FOR APPROVAL PRIOR TO THE SIGNING OF THE CONTRACT.
  14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.

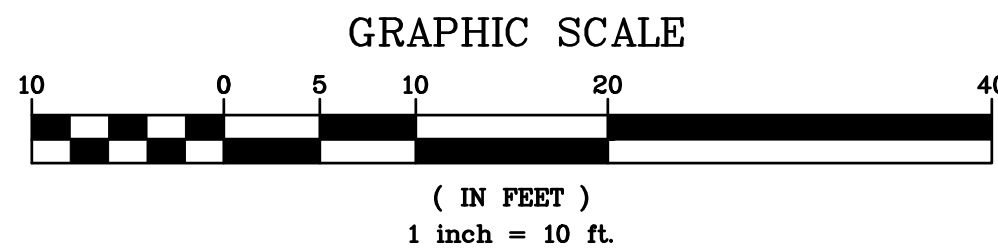
SLOPE ANALYSIS (LIMIT OF DISTURBANCE)				
NO.	MIN. SLOPE	MAX. SLOPE	AREA	COLOR
1	0%	15%	2887	
2	15%	25%	9051	
3	25%	35%	4030	
4	35%	Vertical	2302	

**LEGEND**

- PROPERTY LINE
- PROPOSED BELGIAN BLOCK CURB
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED WALKWAY/PATIO
- PROPOSED STONE MASONRY WALL
- PROPOSED LIMIT OF DISTURBANCE

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

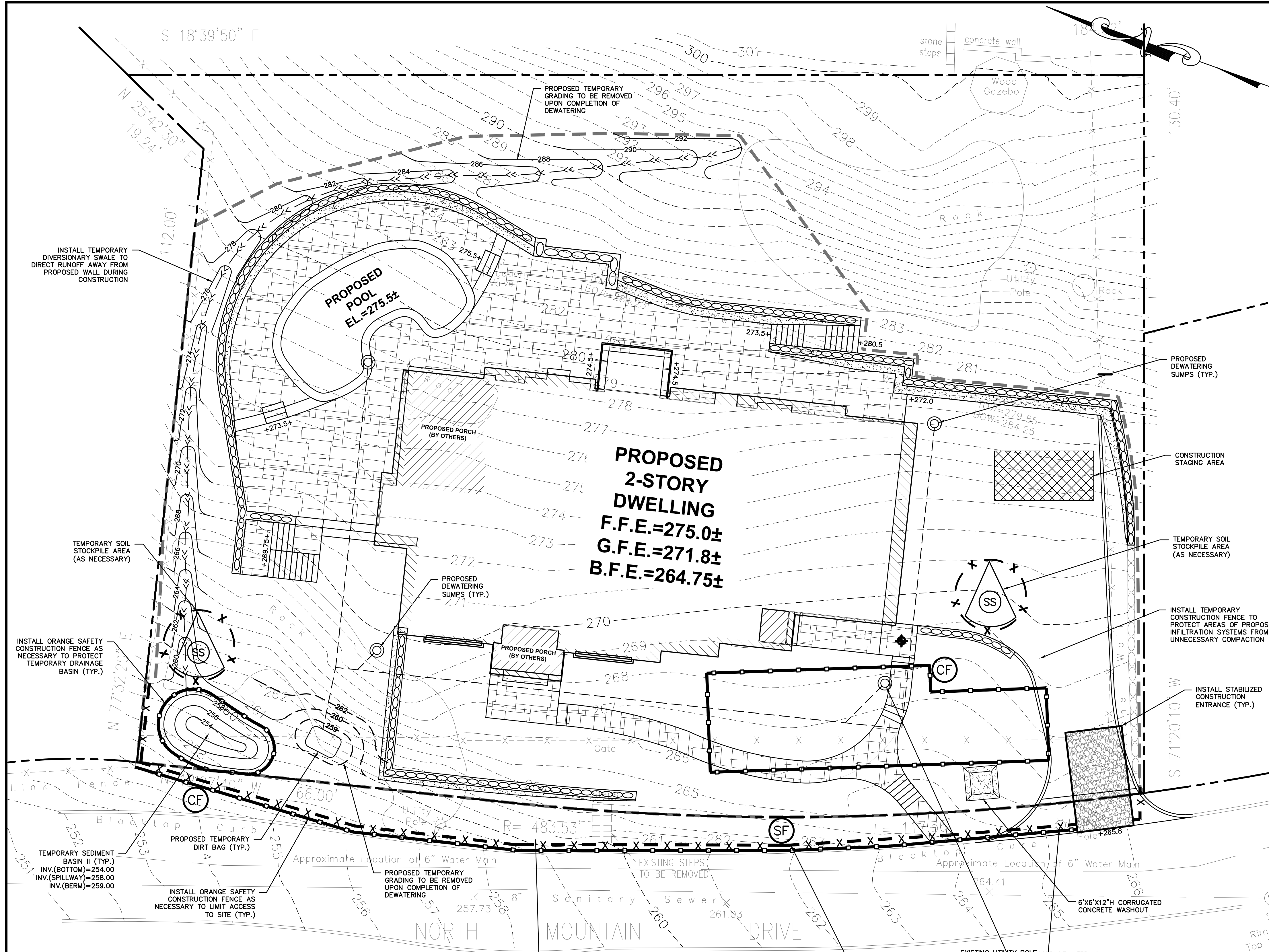
EXISTING CONDITIONS & STEEP SLOPES PLAN IS BASED ON EXISTING INFORMATION SHOWN HEREON PROVIDED BY THE MUNSON COMPANY, LLC.



12/23/23 REVISED PER NEW SITE LAYOUT REVISED PER PLANS COMMENTS N.S. Date Revisions Drawn Checked Reviewed Design Date	PROJECT: <b>PROPOSED SINGLE-FAMILY DWELLING</b> 79 N. MOUNTAIN DRIVE VILLAGE OF DOBBS FERRY WESTCHESTER COUNTY – NEW YORK	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE	STEEP SLOPES PLAN	
	<b>HUDSON ENGINEERING &amp; CONSULTING, P.C.</b> 45 Knollwood Road, Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2022	Date: 12/14/22 Scale: 1" = 10' Designed By: N.S. Checked By: M.S. Sheet No. 5

C-1





INSTALLATION & MAINTENANCE OF EROSION CONTROL:

CONSTRUCTION SCHEDULE  
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES  
INSTALL ALL EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY  
MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

AFTER ANY RAIN CAUSING RUNOFF, CONTRACTOR TO INSPECT HAYBALES, ETC. AND REMOVE ANY EXCESSIVE SEDIMENT AND INSPECT STOCKPILES AND CORRECT ANY PROBLEMS WITH SEED ESTABLISHMENT.  
INSPECTIONS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION.

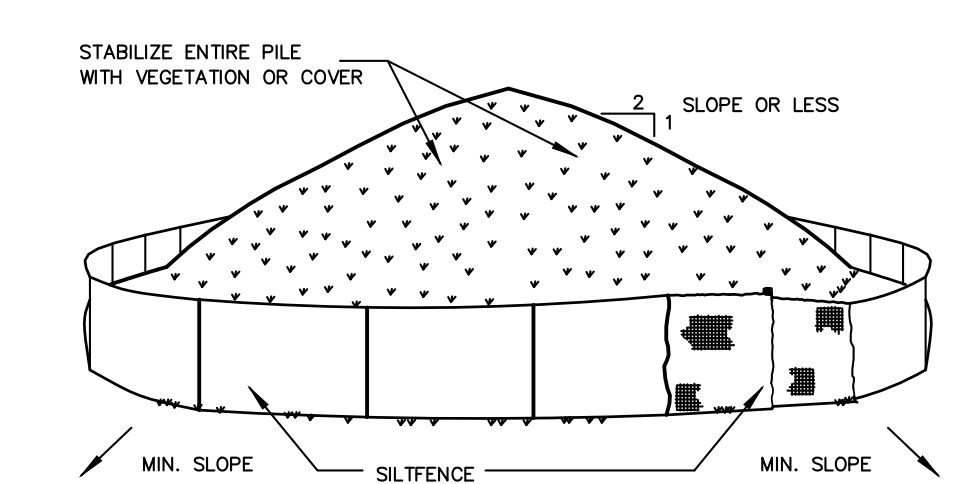
INSPECTION BY MUNICIPALITY - FINAL GRADING  
REMOVE UNNEEDED SUBGRADE FROM SITE.  
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - LANDSCAPING  
SPREAD TOPSOIL EVENLY OVER AREAS TO BE SEED. HAND RAKE LEVEL.  
BROADCAST 1.25 LB. BAG OF JONATHAN GREEN "FASTGROW" MIX OR EQUAL OVER AREA TO BE SEED. APPLY STRAW MULCH AND WATER WITHIN 2 DAYS OF COMPLETION OF TOPSOILING. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - FINAL LANDSCAPING  
GRASS ESTABLISHED.  
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

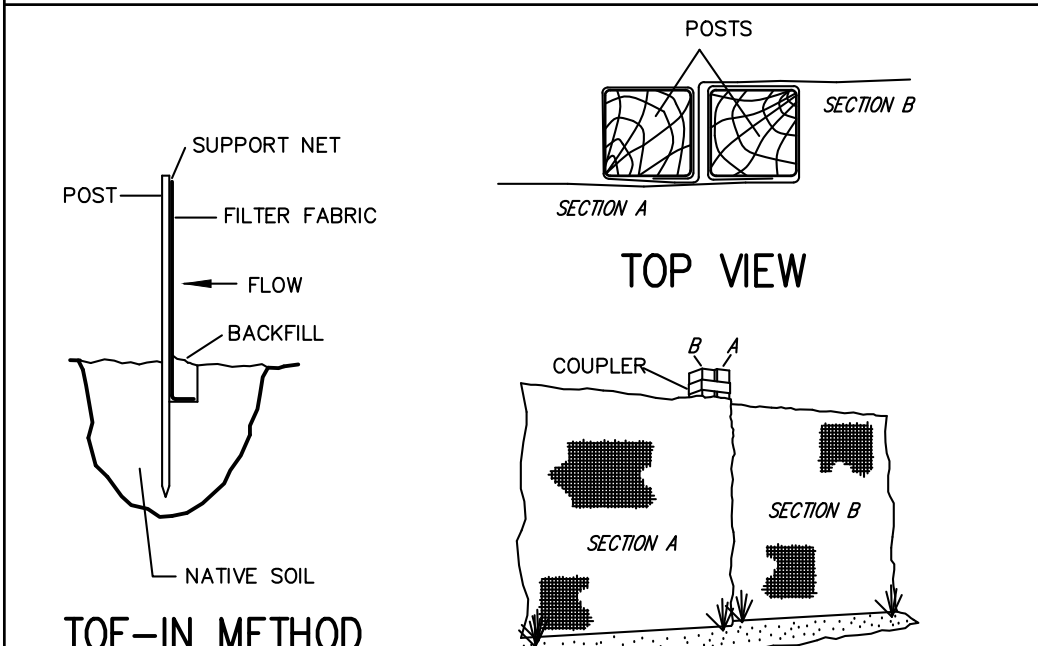
INSPECTION BY MUNICIPALITY - FINAL INSPECTION  
ALL EROSION CONTROL MEASURES REMOVED AND GRASS ESTABLISHED.  
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

SOIL STOCKPILING

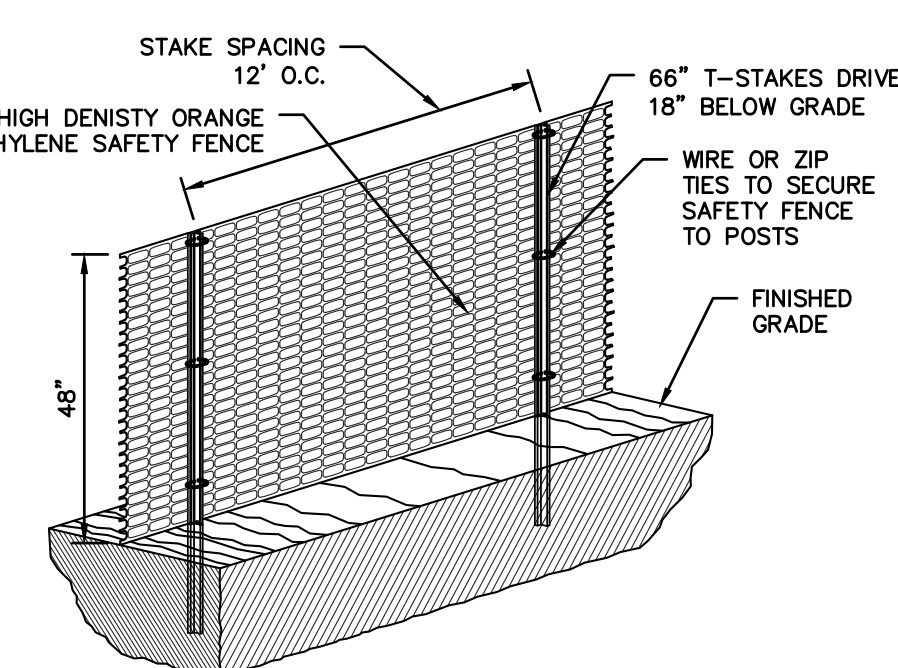


INSTALLATION NOTES:  
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.  
2. SOILS OR FILL TO BE STOCKPILED ON SITE DURING CUTTING AND FILLING ACTIVITIES SHOULD BE LOCATED ON LEVEL PORTIONS OF THE SITE WITH A MINIMUM OF 50-75 FOOT SETBACKS FROM TEMPORARY DRAINAGE SWALES.  
3. MAXIMUM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

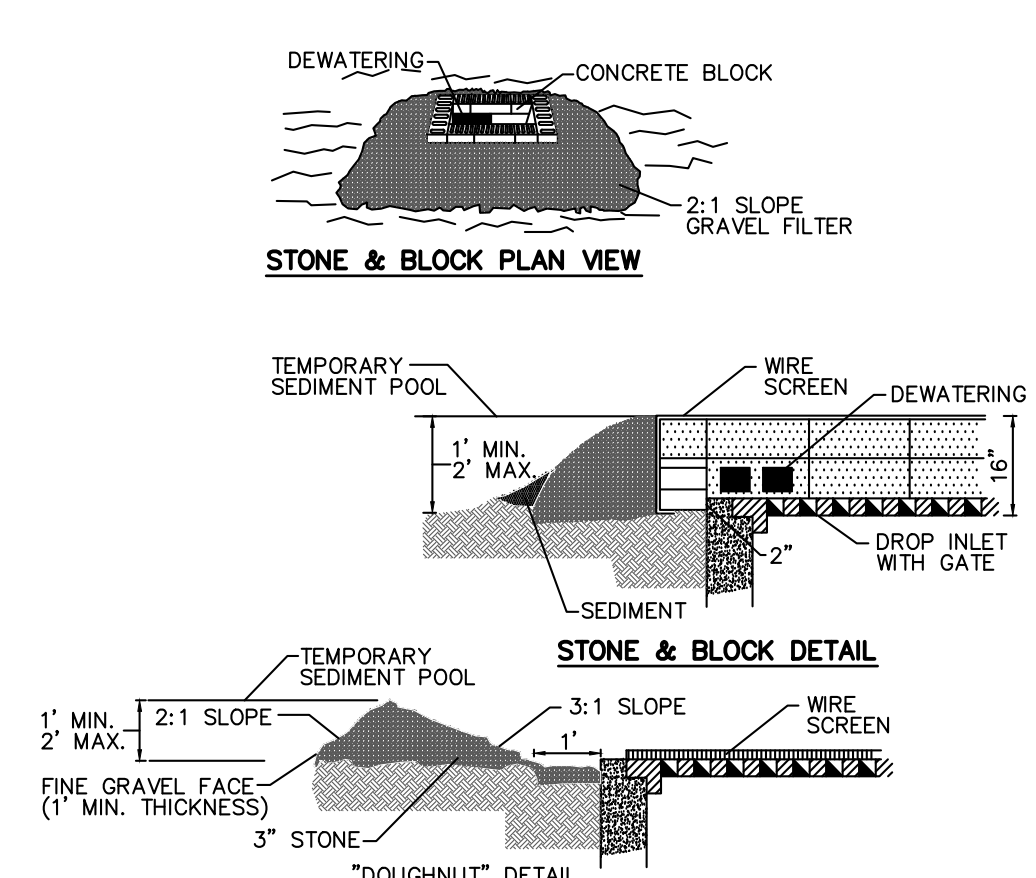
SILT FENCE



INSTALLATION NOTES:  
1. EXCAVATE A 4 INCH \* 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.  
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).  
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.  
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.  
5. JOIN SECTIONS AS SHOWN ABOVE.

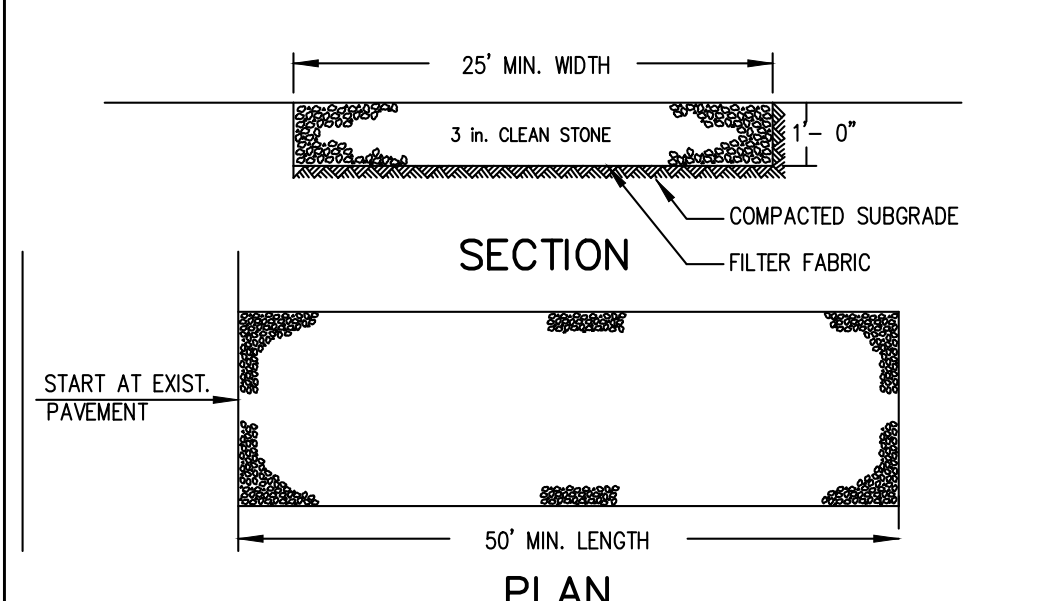


STONE & BLOCK DROP INLET PROTECTION



CONSTRUCTION SPECIFICATION  
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.  
2. HARDWARECLOTH OR 1/2\"/>

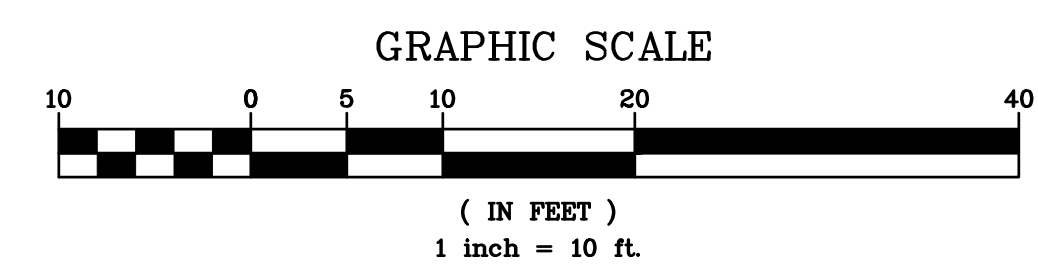
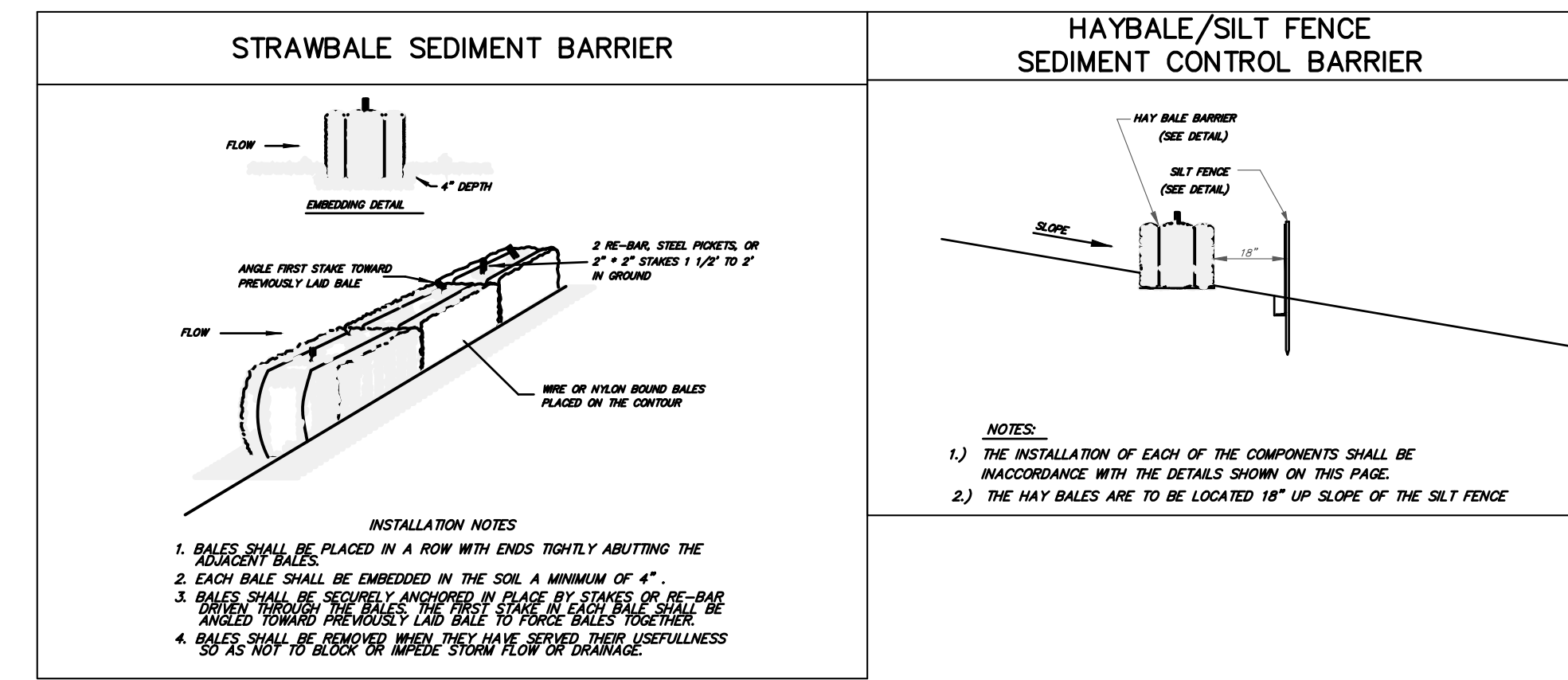
STABILIZED CONSTRUCTION ENTRANCE



INSTALLATION NOTES:  
1. STONE SIZE - USE 3\"/>

LEGEND

- PROPERTY LINE
- PROPOSED BELGIAN BLOCK CURB
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED WALKWAY/PATIO
- PROPOSED GRAVEL DRIVEWAY
- PROPOSED STONE MASONRY WALL
- TEMPORARY SILT FENCE
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY SOIL STOCKPILE AREA
- STABILIZED CONSTRUCTION ENTRANCE
- TEST PIT LOCATION
- PROPOSED LIMIT OF DISTURBANCE



EROSION & SEDIMENT CONTROL PLAN IS BASED ON EXISTING INFORMATION SHOWN HEREON PROVIDED BY THE MUNSON COMPANY, LLC.

REVISIONS

NO.	DATE	DESCRIPTION
1	03/23/23	REVISED PER NEW SITE LAYOUT
2	07/09/23	REVISED PER PRELIM COMMENTS
3		

PROJECT:

PROPOSED SINGLE-FAMILY DWELLING  
79 N. MOUNTAIN DRIVE  
VILLAGE OF DOBBS FERRY  
WESTCHESTER COUNTY - NEW YORK

EROSION & SEDIMENT CONTROL PLAN

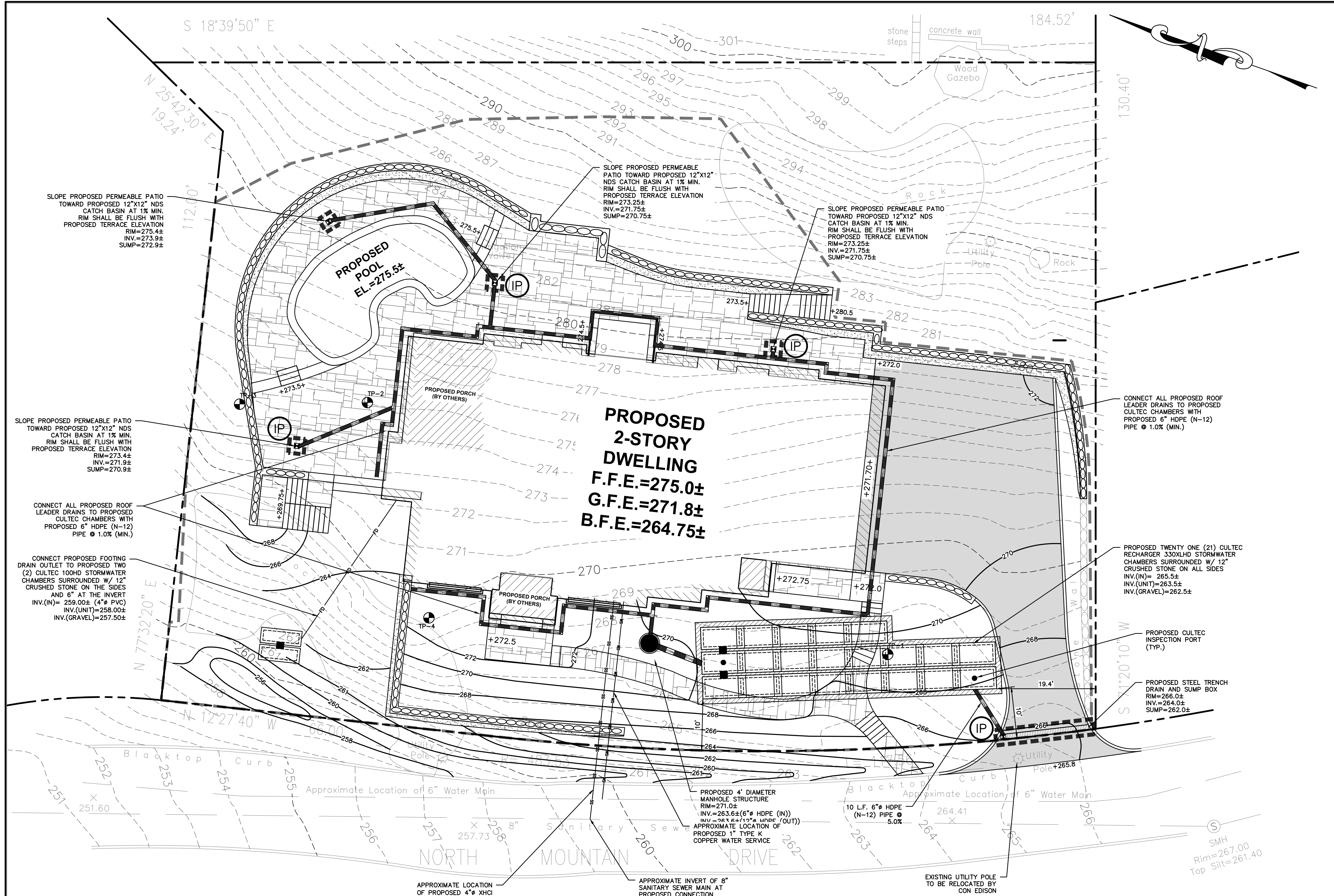
HUDSON ENGINEERING CONSULTING, P.C.  
45 Knollwood Road, Suite 201  
Elmsford, New York 10523  
T: 914-909-0420  
F: 914-560-2086  
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STATE OF NEW YORK  
MICHAEL J. STERN  
LICENSED PROFESSIONAL ENGINEER  
No. 60857

Date: 12/14/22  
Scale: 1" = 10'  
Designed By: N.S.  
Checked By: M.S.  
Sheet No. 5

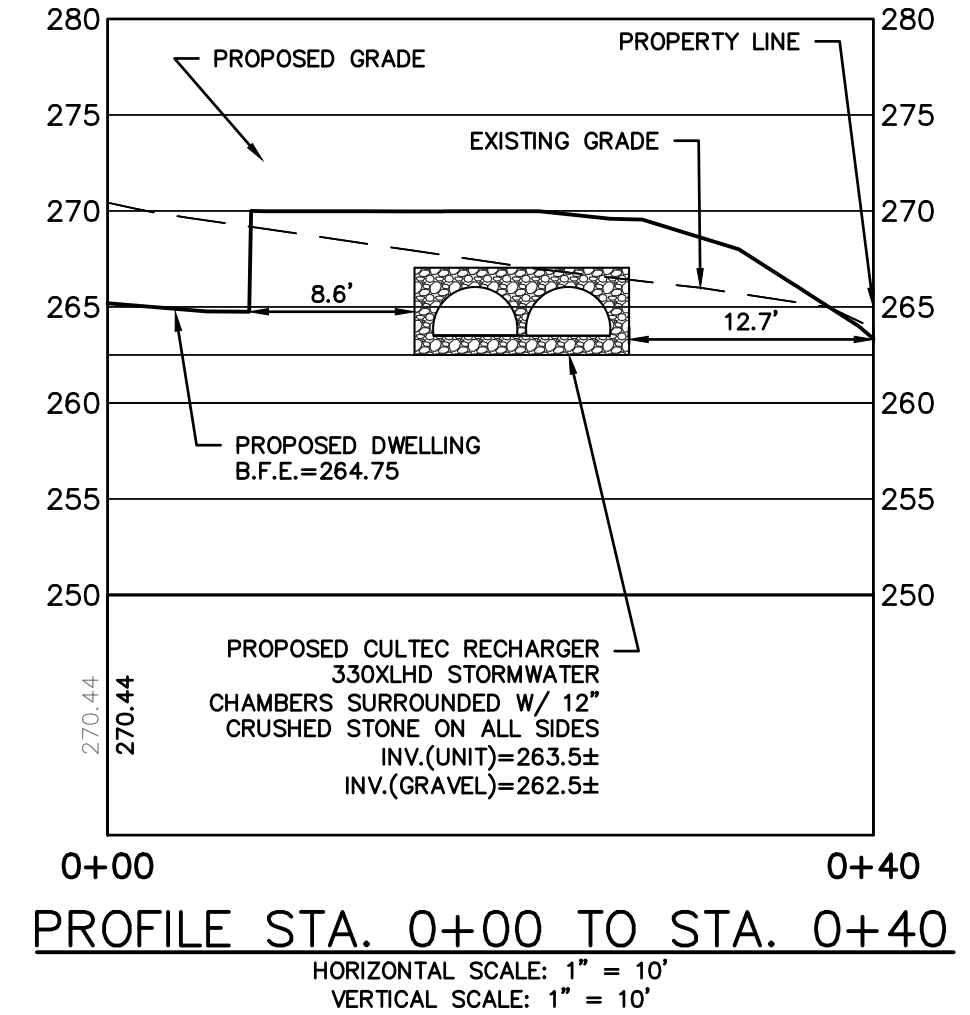
C-2





LEGEND

- PROPERTY LINE
- PROPOSED BELGIAN BLOCK CURB
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED WALKWAY/PATIO
- PROPOSED GRAVEL AREA
- PROPOSED STONE MASONRY WALL
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED STORM PIPE
- PROPOSED DRAIN INLET
- PROPOSED TRENCH DRAIN
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER SERVICE
- TEMPORARY INLET PROTECTION
- TEST PIT LOCATION
- PROPOSED LIMIT OF DISTURBANCE



Cut/Fill Summary

Name	Cut	Fill	Net
Cut Fill	1944.91 Cu. Yd.	366.44 Cu. Yd.	1578.47 Cu. Yd.<Cut>
Totals	1944.91 Cu. Yd.	366.44 Cu. Yd.	1578.47 Cu. Yd.<Cut>

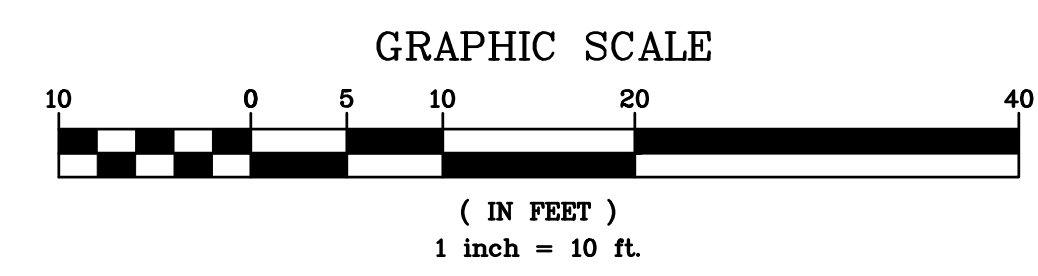
TEST HOLE DATA:

- TEST HOLE #1  
DEPTH - 99"  
0-6" TOPSOIL  
6-42" FINE SANDY LOAM  
42-77" FINE SANDY LOAM, VERY ROCKY  
77-99" MIXED SANDS  
NO GROUNDWATER  
NO LEDGE ROCK  
PERC. = 14 INCHES/HOUR
- TEST HOLE #2  
DEPTH - 20"  
0-6" TOPSOIL  
6-20" FINE SANDY LOAM  
NO GROUNDWATER  
LEDGE @ 20"
- TEST HOLE #3  
DEPTH - 60"  
0-6" TOPSOIL  
6-60" FINE SANDY LOAM, VERY ROCKY  
NO GROUNDWATER  
LEDGE @ 60"
- TEST HOLE #4  
DEPTH - 64"  
0-6" TOPSOIL  
6-64" MEDIUM SANDY LOAM  
NO GROUNDWATER  
LEDGE @ 64"  
PERC. = 6 INCHES/HOUR

CONTRACTOR SHALL CONTACT DESIGN ENGINEER TO SCHEDULE A SITE INSPECTION PRIOR TO BACKFILLING INFILTRATION/ATTENUATION SYSTEM(S). ALL CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND VISIBLE AT TIME OF INSPECTION. SHOULD THE CONTRACTOR BACKFILL PRIOR TO INSPECTION, THE CONTRACTOR SHALL EXPOSE THE SYSTEM AT THEIR OWN EXPENSE.

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

STORMWATER MANAGEMENT PLAN IS BASED ON EXISTING INFORMATION SHOWN HEREON PROVIDED BY THE MUNSON COMPANY, LLC.



01/21/23  
REVISED PER NEW SITE LAYOUT

02/16/23  
REVISED PER ALIQUOT COMMENTS

07/19/23  
REVISED PER ALIQUOT COMMENTS

NO  
NO

Revisions

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE

PROJECT:  
PROPOSED SINGLE-FAMILY DWELLING  
79 N. MOUNTAIN DRIVE  
VILLAGE OF DOBBS FERRY  
WESTCHESTER COUNTY - NEW YORK

STORMWATER MANAGEMENT PLAN

HEC

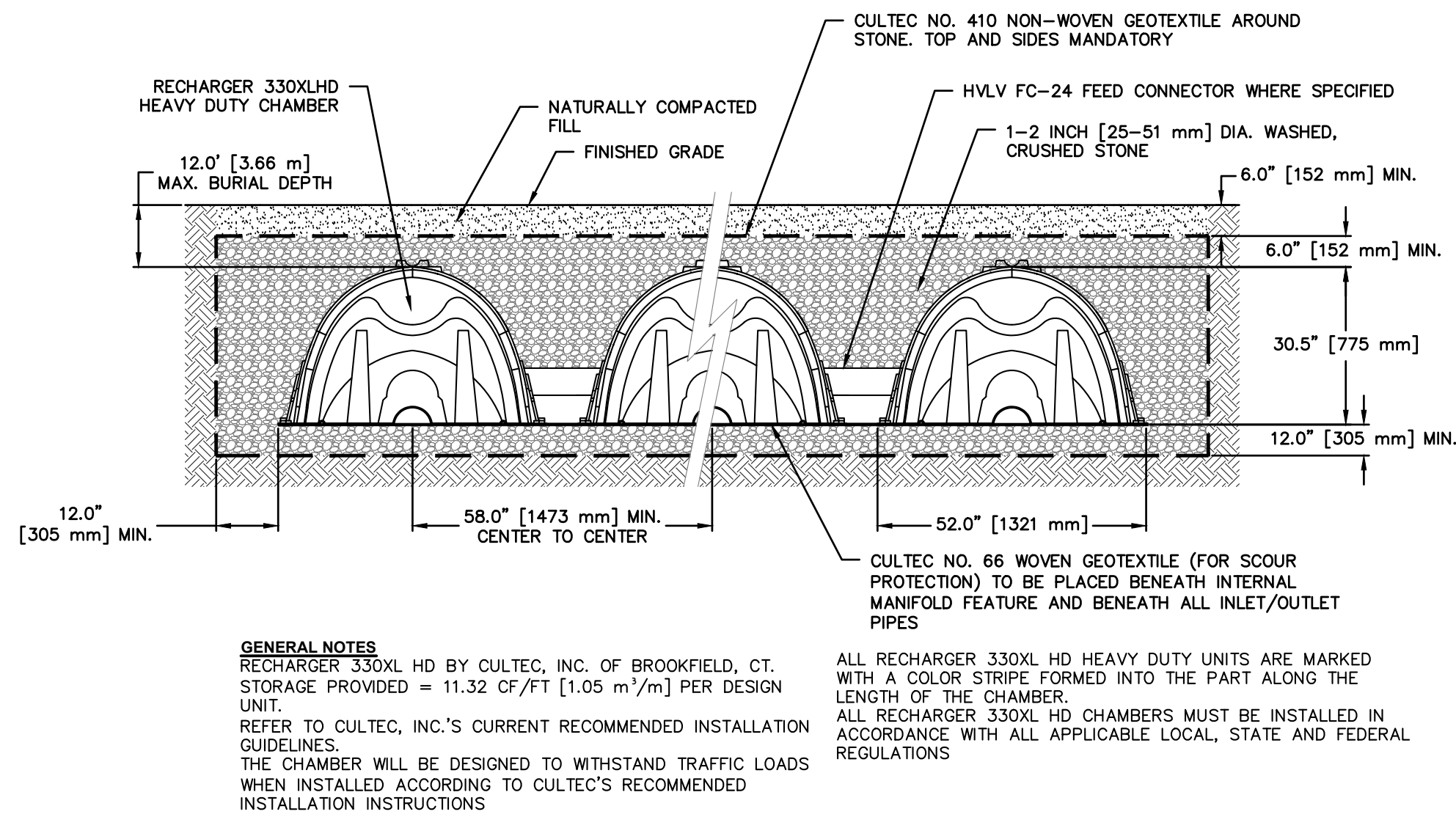
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STATE OF NEW YORK  
MICHAEL F. STERN  
LICENSED PROFESSIONAL ENGINEER  
No. 00687

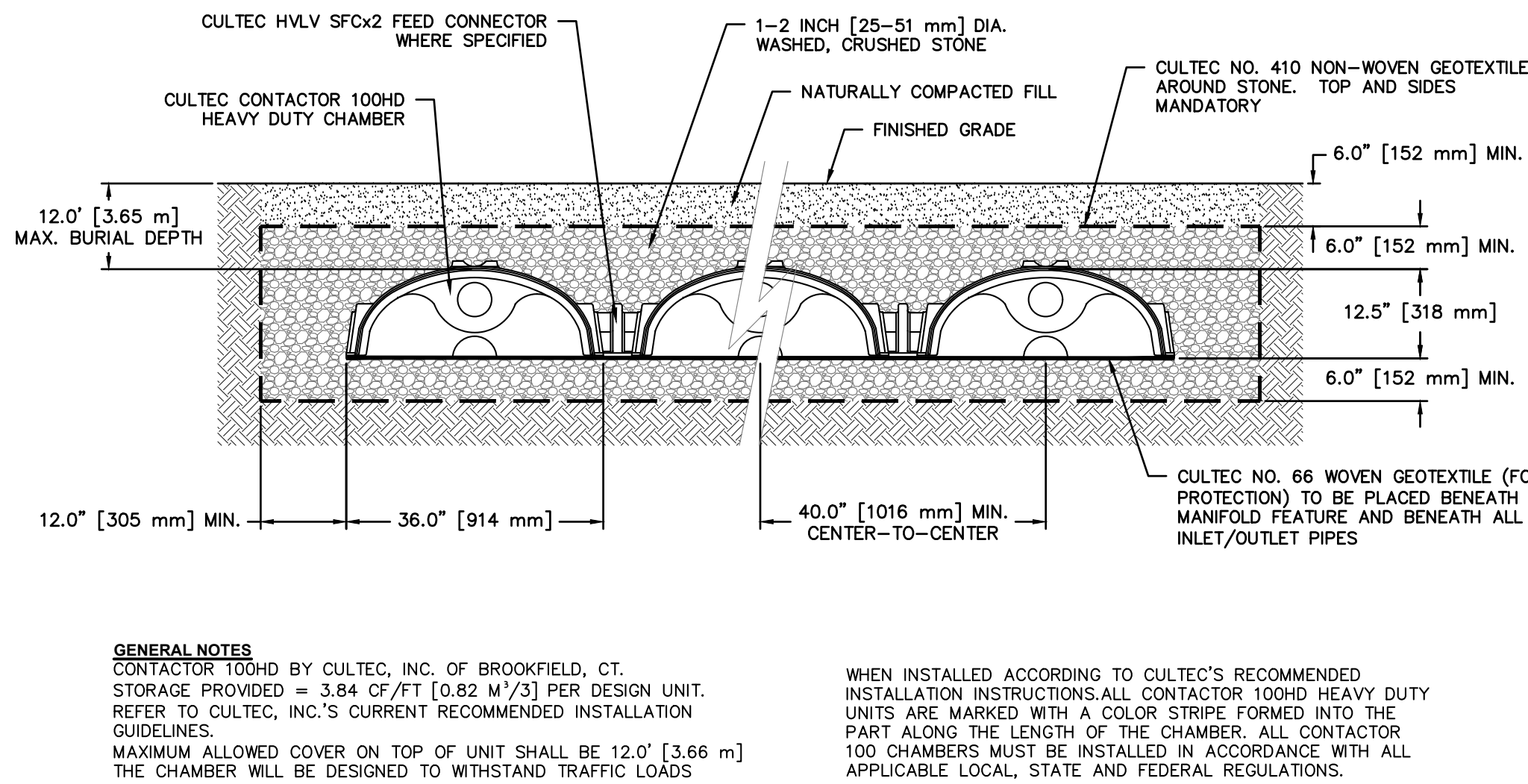
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Checked By: M.S.  
Sheet No. 5

C-3

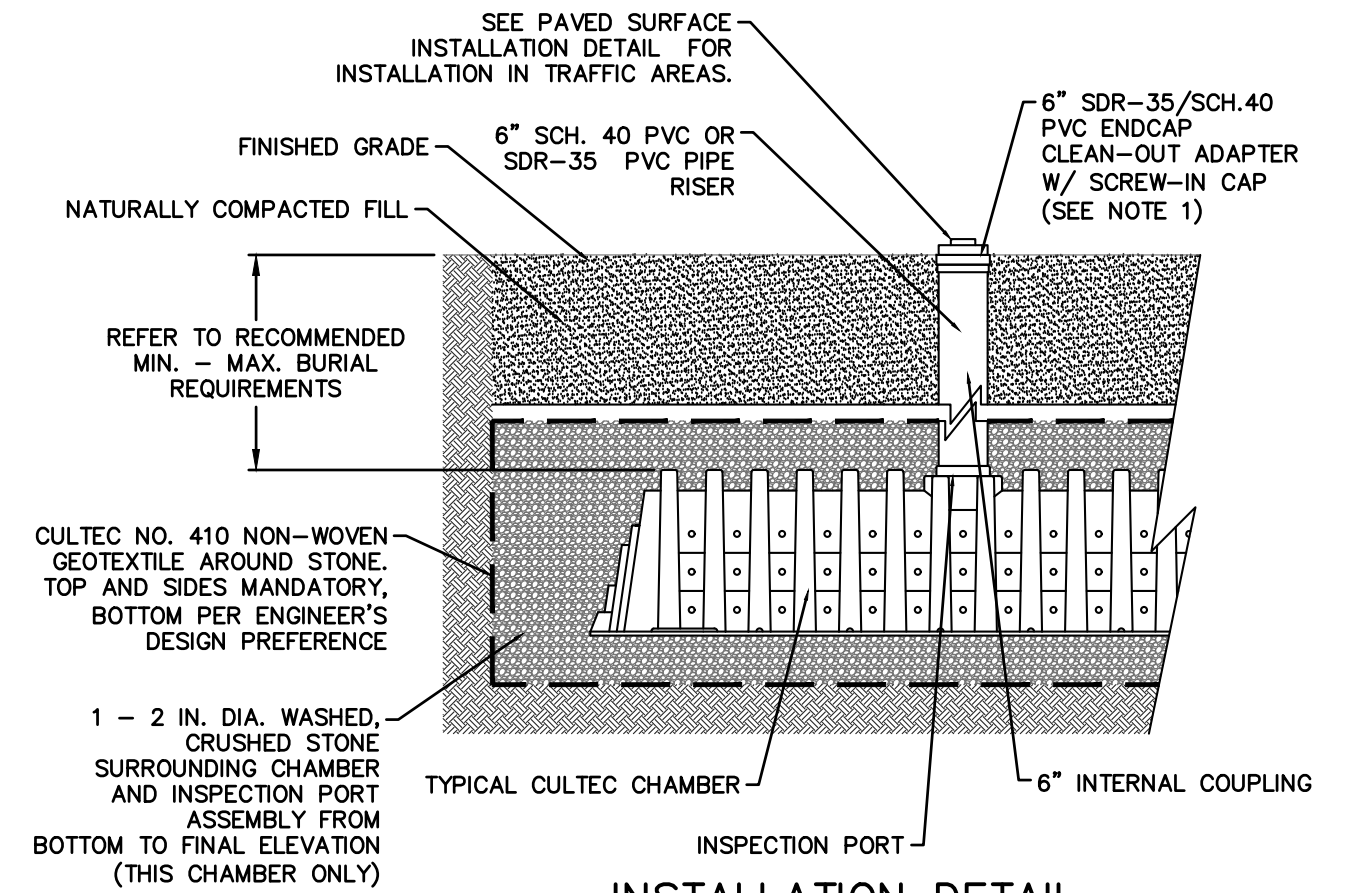




CULTEC RECHARGER 330XLHD



CULTEC CONTACTOR 100HD

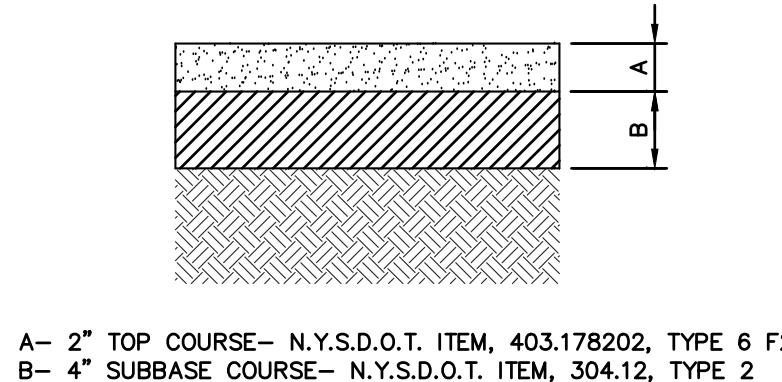
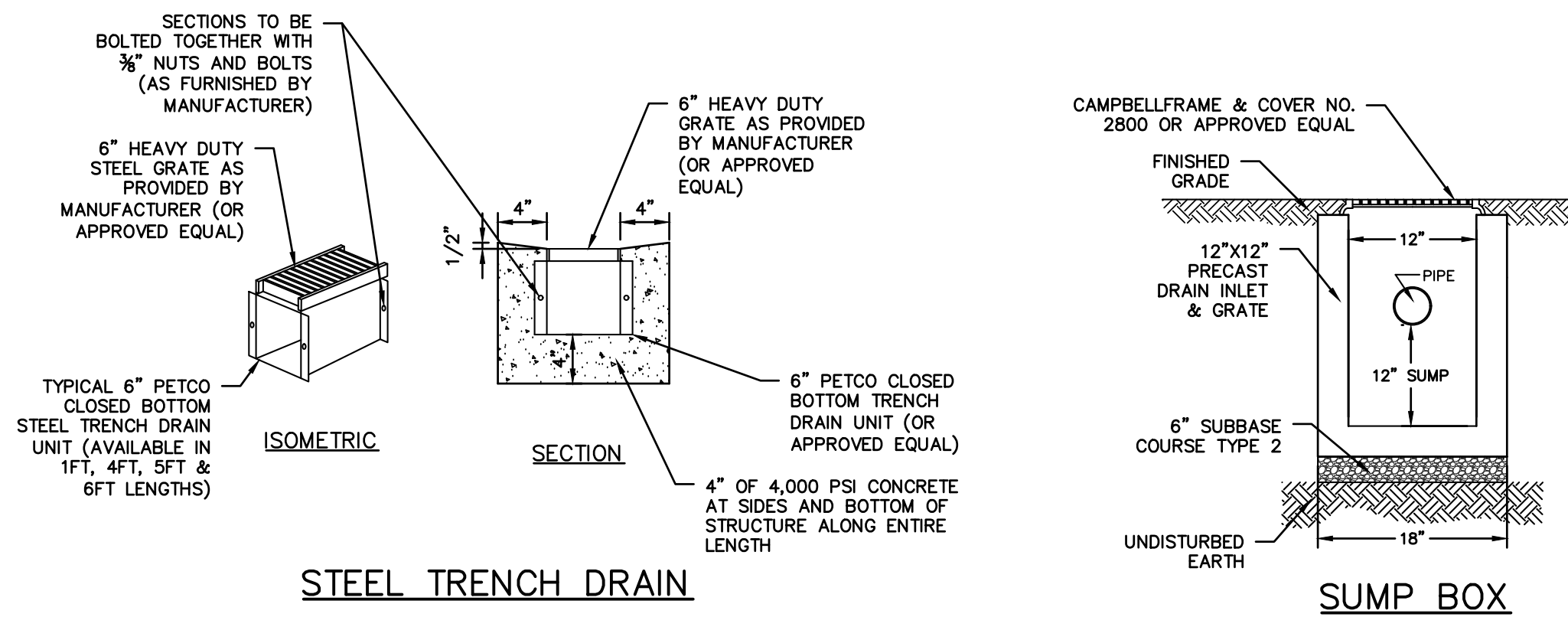


INSTALLATION DETAIL

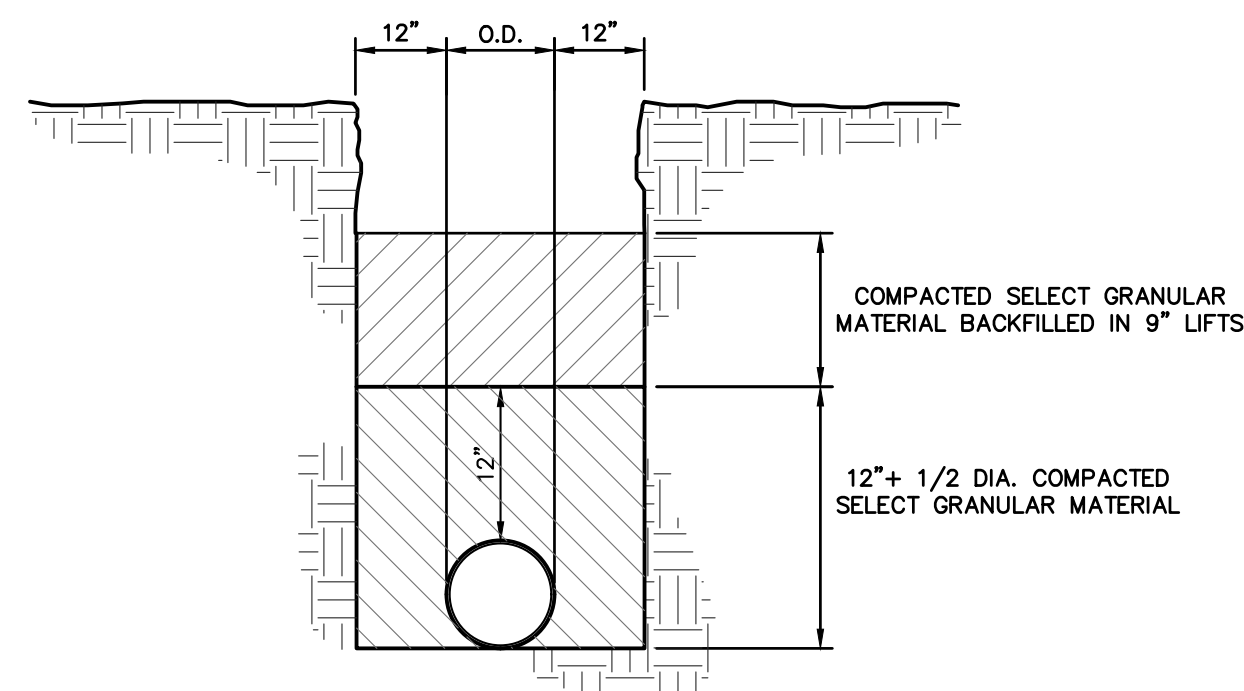
CULTEC INSPECTION PORT

**NOTES:**

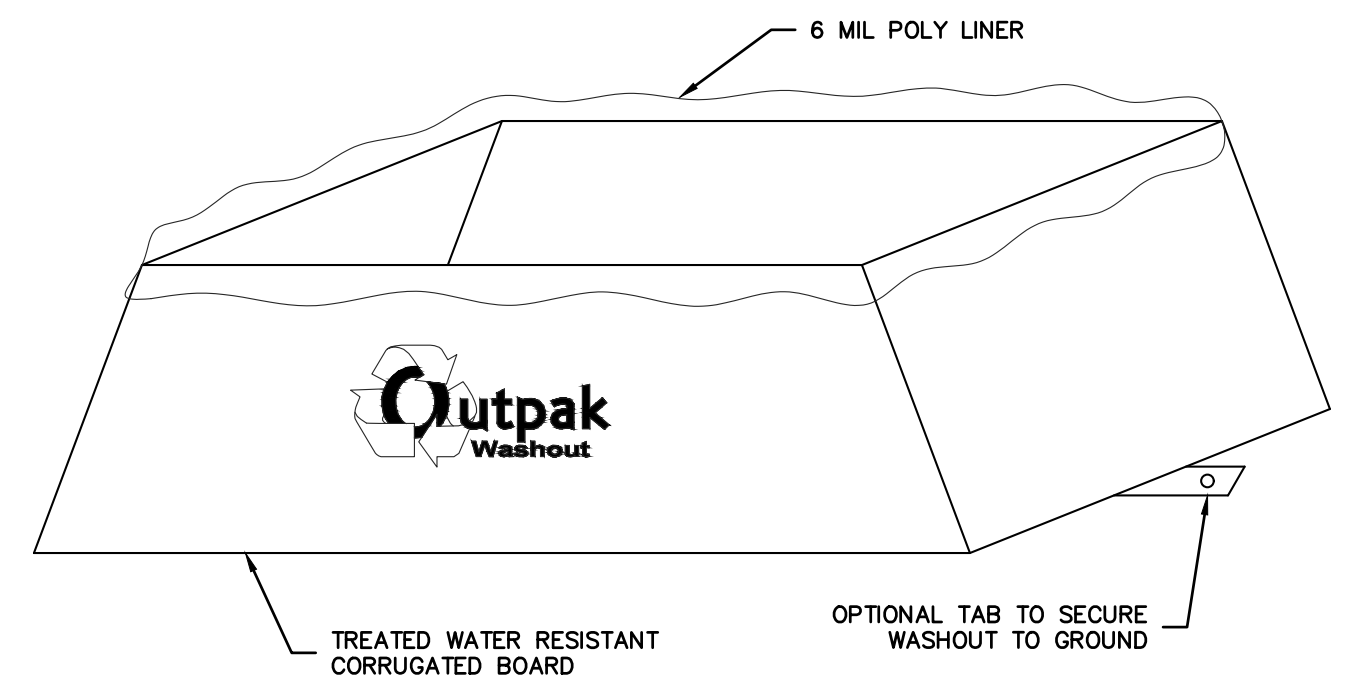
1. WHEN ACCESS PORT IS UTILIZED AS SYSTEM OVERFLOW, INSTALL NDS MODEL 50 GRATE. GRATE TO BE SET 1/2" ABOVE ADJACENT GRADE. ADJACENT GRADE TO PITCH AWAY FROM ACCESS PORT IN ALL DIRECTION.
2. INSPECTION PORT NOT TO SERVE AS OVERFLOW WHEN INSTALLED IN PAVED/TRAFFIC AREAS.



DRIVEWAY PAVEMENT SECTION



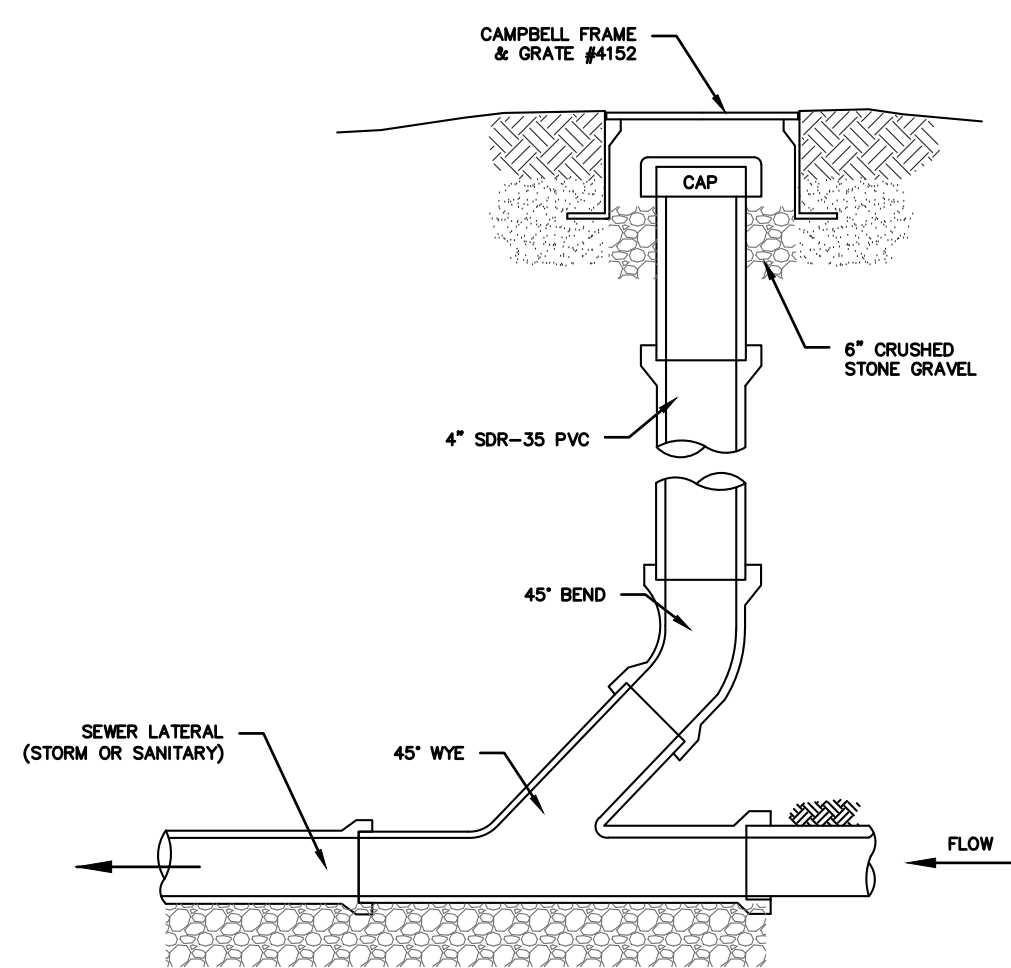
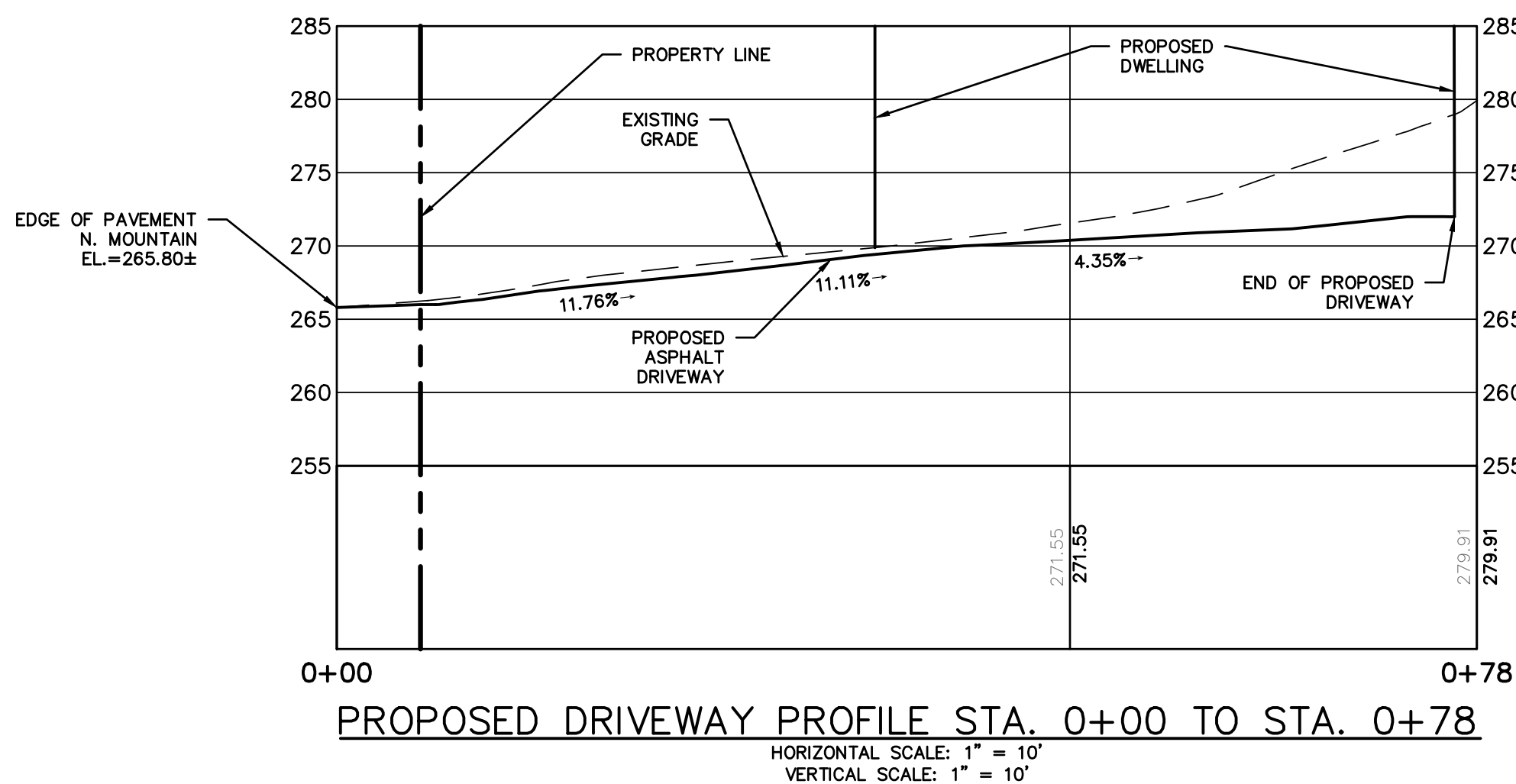
TRENCH BEDDING



**NOTES:**

1. THE WASHOUT SHALL BE INSTALLED PRIOR TO USING MATERIALS THAT REQUIRE WASHOUT ON THIS PROJECT.
2. AS NECESSARY, SIGNS SHALL BE PLACED THROUGHOUT THE SITE TO INDICATE THE LOCATION OF THE WASHOUT.
3. THE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR LIQUID WASTE.
4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE FACILITY.
5. DO NOT WASHOUT INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
6. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
7. LOCATE WASHOUT AT LEAST 50' (15 METERS) FROM STORM DRAIN, OPEN DITCHES, OR WATER BODIES.
8. THE WASHOUT SHALL BE USED ONLY FOR NON-HAZARDOUS WASTES.

CORRUGATED CONCRETE WASHOUT



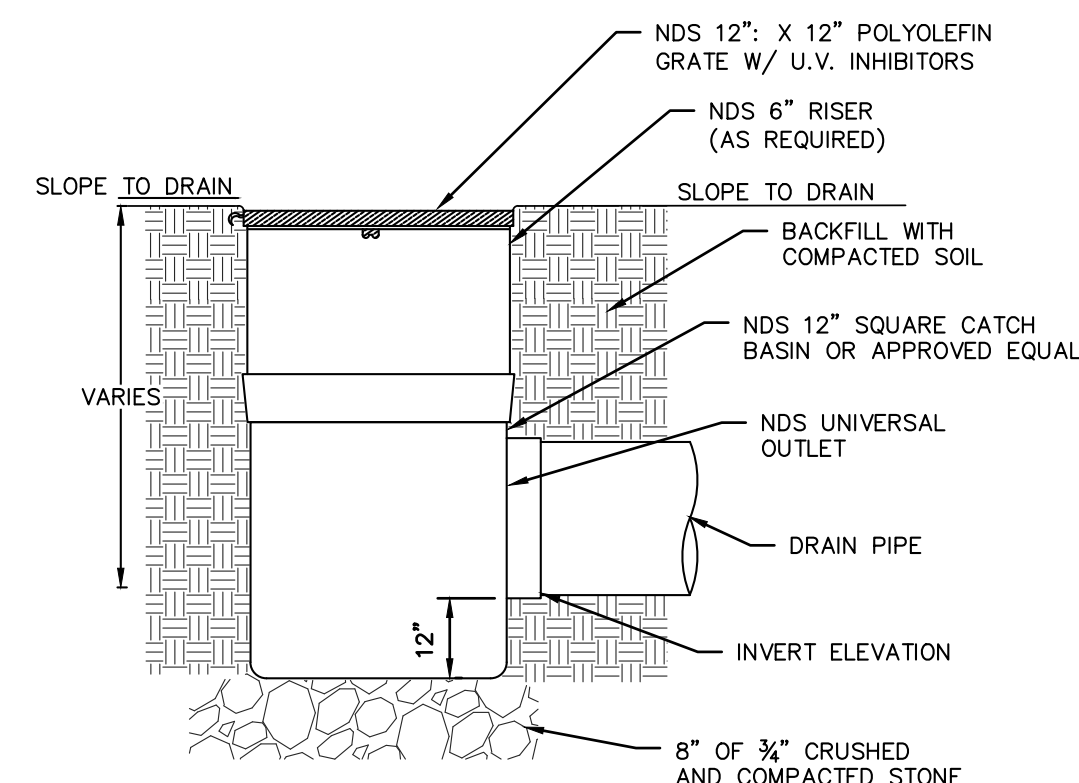
**NOTES (SANITARY SEWER SERVICES):**

1. ALL SANITARY SEWER SERVICES TO BE 4" SCH. 40 @ 1.0% MINIMUM.
2. IN ACCORDANCE WITH THE NYS RESIDENTIAL BUILDING CODE, THE FOLLOWING REQUIREMENTS APPLY:
  - A. CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 100 FEET APART IN HORIZONTAL DRAINAGE LINES (P3005.2.2).
  - B. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE DRAINAGE SYSTEM GREATER THAN 45 DEGREES.
  - C. CLEANOUTS SHALL BE INSTALLED SO THAT THE CLEANOUT OPENS TO ALLOW CLEANING IN THE DIRECTION OF THE FLOW OF THE DRAINAGE LINE (P3005.2.8).

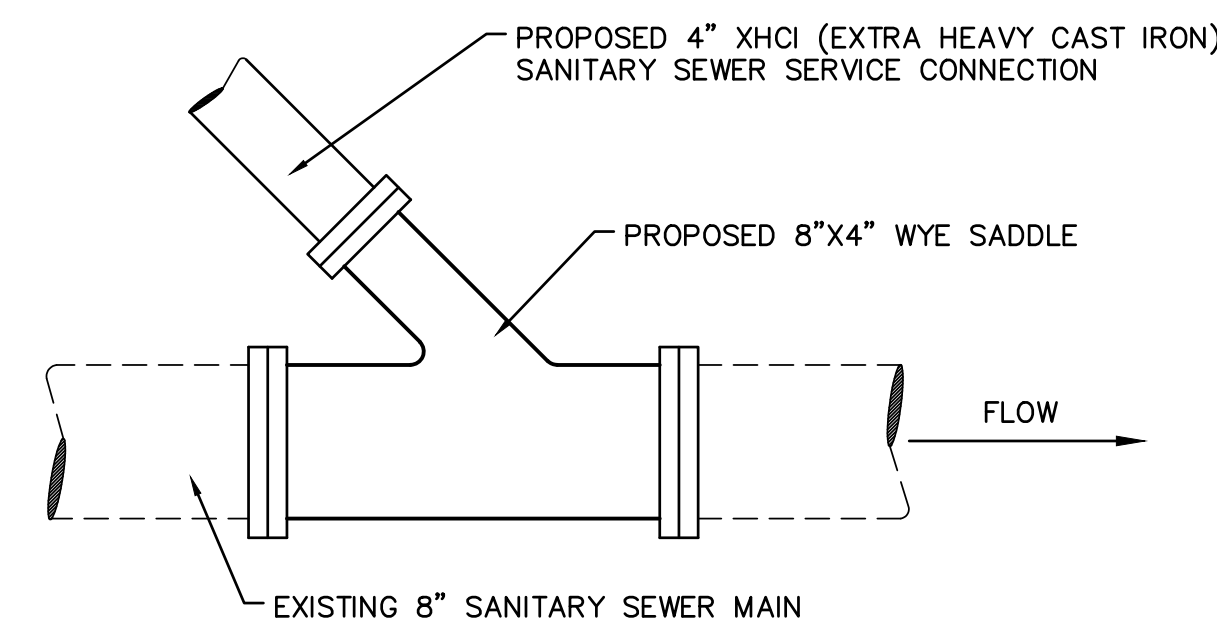
**NOTES (STORM SEWER):**

1. REFER TO PLAN FOR SPECIFIC PIPE SIZING AND SLOPE SPECIFICATIONS; HOWEVER, IN GENERAL, ALL STORM SEWER SERVICES TO BE 6" SCH. 40 @ 1.0% MINIMUM.
2. CLEANOUTS SHALL BE PLACED BEFORE SIGNIFICANT PIPE BEND LOCATIONS (I.E., JUNCTIONS, 90-DEGREE BENDS, ETC.) UNLESS A ROOF LEADER DOWNSPOUT CONNECTION IS PROPOSED.

SEWER CLEANOUT DETAIL (GRAVITY)  
(STORM OR SANITARY)



NDS SQUARE CATCH BASIN



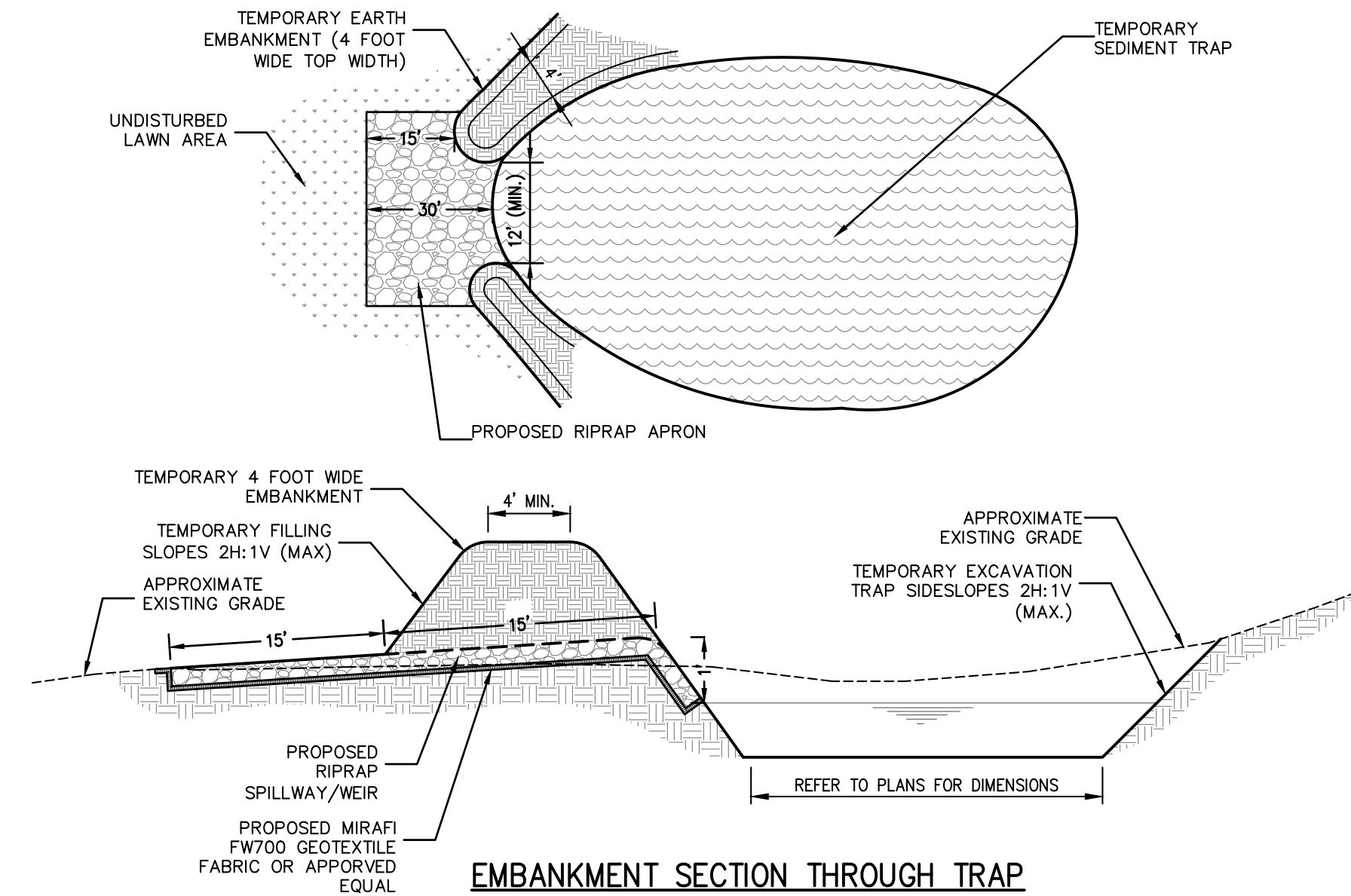
SEWER "WYE" DETAIL

02/16/23 Revised per Village comments dated 2/16/23 07/19/23 Revisions 1. 1.0% MINIMUM SLOPE 2. 1.0% MINIMUM SLOPE 3. 1.0% MINIMUM SLOPE 4. 1.0% MINIMUM SLOPE 5. 1.0% MINIMUM SLOPE 6. 1.0% MINIMUM SLOPE 7. 1.0% MINIMUM SLOPE 8. 1.0% MINIMUM SLOPE 9. 1.0% MINIMUM SLOPE 10. 1.0% MINIMUM SLOPE 11. 1.0% MINIMUM SLOPE 12. 1.0% MINIMUM SLOPE 13. 1.0% MINIMUM SLOPE 14. 1.0% MINIMUM SLOPE 15. 1.0% MINIMUM SLOPE 16. 1.0% MINIMUM SLOPE 17. 1.0% MINIMUM SLOPE 18. 1.0% MINIMUM SLOPE 19. 1.0% MINIMUM SLOPE 20. 1.0% MINIMUM SLOPE 21. 1.0% MINIMUM SLOPE 22. 1.0% MINIMUM SLOPE 23. 1.0% MINIMUM SLOPE 24. 1.0% MINIMUM SLOPE 25. 1.0% MINIMUM SLOPE 26. 1.0% MINIMUM SLOPE 27. 1.0% MINIMUM SLOPE 28. 1.0% MINIMUM SLOPE 29. 1.0% MINIMUM SLOPE 30. 1.0% MINIMUM SLOPE 31. 1.0% MINIMUM SLOPE 32. 1.0% MINIMUM SLOPE 33. 1.0% MINIMUM SLOPE 34. 1.0% MINIMUM SLOPE 35. 1.0% MINIMUM SLOPE 36. 1.0% MINIMUM SLOPE 37. 1.0% MINIMUM SLOPE 38. 1.0% MINIMUM SLOPE 39. 1.0% MINIMUM SLOPE 40. 1.0% MINIMUM SLOPE 41. 1.0% MINIMUM 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TRAP NUMBER	TYPE OF TRAP	DRAINAGE AREA (ACRES)	STORAGE REQUIRED (CU. FT.)	STORAGE PROVIDED (CU. FT.)	BOTTOM SEDIMENT TRAP (CU. FT.)	1/2 STORAGE CLEANSOUT (CU. FT.)	RIPRAP SPILLWAY (CU. FT.)	ELEVATIONS (F.T.)
I	ST-V	1.90	8,840	8,500	199.0	201.0	204.0	

\*REQUIRED STORAGE VOLUME BASED UPON THE NYSDEC REQUIREMENT OF 3,600 CUBIC-FeET OF STORAGE PER ACRE OF TRIBUTARY DRAINAGE AREA



EMBANKMENT SECTION THROUGH TRAP

SEDIMENT TRAP I			
ELEVATION	AREA	VOLUME*	VOL.SUM*
(ft.)	(sq. ft.)	(cu. ft.)	(cu. ft.)
252	0		0
254	26	17	17
256	85	105	123
258	174	254	376
Total Volume		376	

\*Volumue Formula (Conical Frustum): 1/3h(A1 + A2 + √(A1)(A2))

Where: h=height  
A1=area of base elevation  
A2=area of top elevation

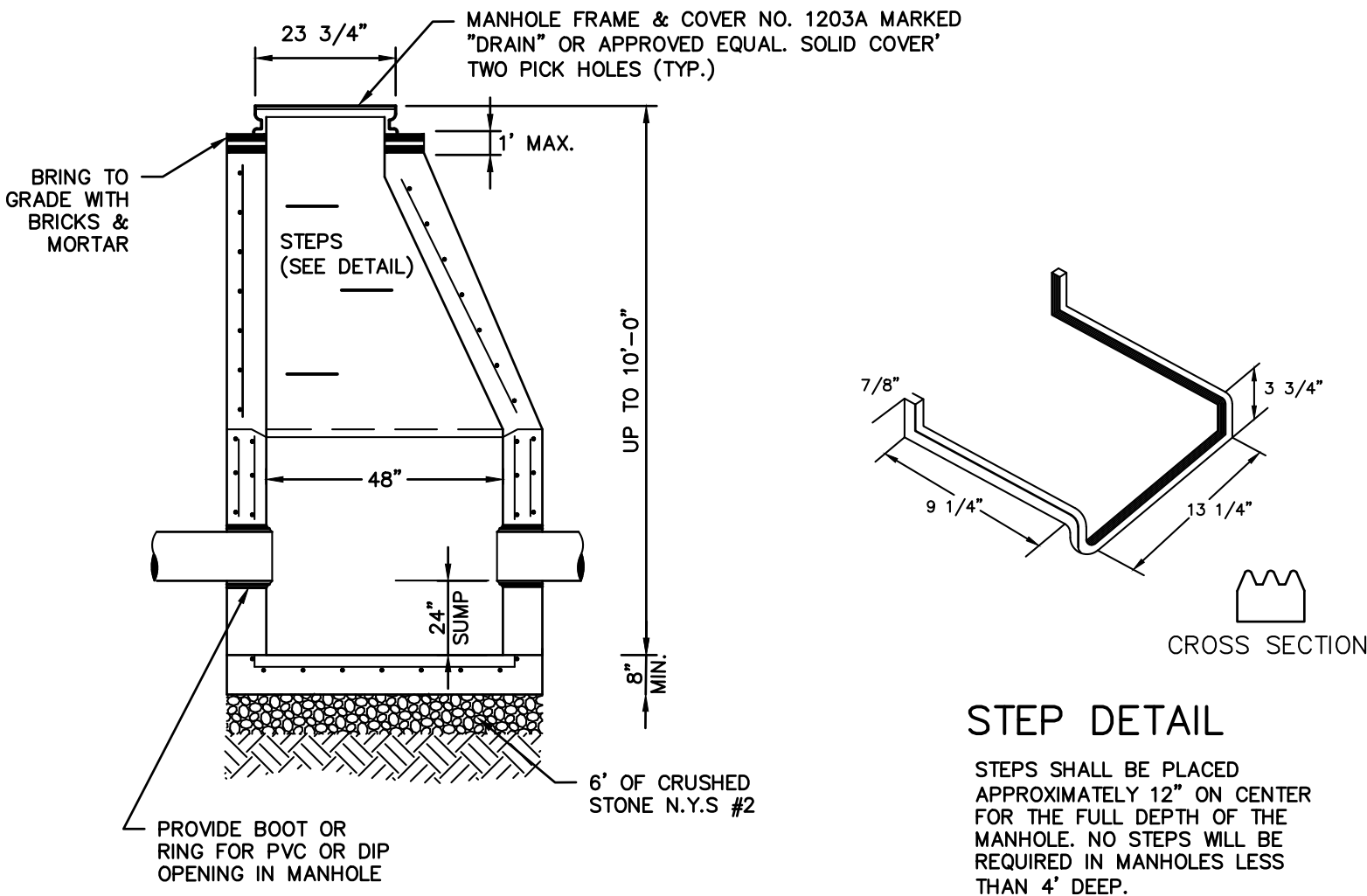
### RIPRAP OUTLET SEDIMENT TRAP (NYSDEC ST-V)

### CONSTRUCTION SPECIFICATIONS

- THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT THE CENTERLINE OF EMBANKMENT.
- ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF EMBANKMENT.
- STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL WEIR CREST.
- FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNEL.
- STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCH RIPRAP. TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES OR LESS.

### SCHEDULE OF TEMPORARY EROSION CONTROL MEASURES:

MEASURE	DATES FOR USE	TIMING, ACTIVITY, AND LOCATION
SOIL/STOCKPILE AREAS	ALL	ALL SOIL AND SHOT ROCK STRIPPED FROM THE CONSTRUCTION AREA DURING GRUBBING AND MASS GRADING SHALL BE STOCKPILED IN LOCATIONS SHOWN ON THE PLANS, BUT IN NO CASE SHALL THEY BE PLACED WITHIN 100' OF A WETLAND OR WATERCOURSE. THE STOCKPILED SOILS SHALL BE RE-USED DURING FINISH-GRADING TO PROVIDE A SUITABLE GROWING MEDIUM FOR PLANT ESTABLISHMENT. SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY VEGETATING THE STOCKPILE WITH RAPIDLY-GERMINATING GRASS SEED (DURING THE MAY 1ST – OCTOBER 30TH) PLANTING SEASON OR COVERING THE STOCKPILE WITH TARPULIN THE REMAINDER OF THE YEAR. INSTALL SILT FENCE AROUND TOE OF SLOPE.
SILT FENCE	ALL	SILT FENCE (GEO-TEXTILE FILTER CLOTH) SHALL BE PLACED IN LOCATIONS DEPICTED ON THE APPROVED PLANS. THE PURPOSE OF THE SILT FENCE IS TO REDUCE THE VELOCITY OF SEDIMENT LADEN STORMWATER FROM SMALL DRAINAGE AREAS AND TO INTERCEPT THE TRANSPORTED SEDIMENT LOAD. IN GENERAL, SILT FENCE SHALL BE USED AT THE TOE OF SLOPES OR INTERMEDIATELY WITHIN SLOPES WHERE OBVIOUS CHANNEL CONCENTRATION OF STORMWATER IS NOT PRESENT.  SILT FENCING SHALL BE INSPECTED AT A MINIMUM OF ONCE PER WEEK AND PRIOR TO AND WITHIN 24 HOURS FOLLOWING A RAIN EVENT 1/4" OR GREATER. INSPECTIONS SHALL INCLUDE ENSURING THAT THE FENCE MATERIAL IS TIGHTLY SECURED TO THE WOVEN WIRE AND THE WIRE IS SECURED TO THE WOOD POSTS. IN ADDITION, OVERLAPPING FILTER FABRIC SHALL BE SECURED AND THE FABRIC SHALL BE MAINTAINED A MINIMUM OF SIX (6) INCHES BELOW GRADE. IN THE EVENT THAT ANY 'BULGES' DEVELOP IN THE FENCE, THAT SECTION OF FENCE SHALL BE REPLACED WITHIN 24 HOURS WITH NEW FENCE SECTION. ANY SEDIMENT BUILD-UP AGAINST THE FENCE SHALL BE REMOVED WITHIN 24 HOURS AND DEPOSITED ON-SITE A MINIMUM OF 100 FEET OUTSIDE OF ANY WETLAND OR WATERCOURSE.
INLET PROTECTION (STONE & BLOCK DROP INLET PROTECTION)	ALL	IN ORDER TO PROTECT THE RECEIVING WATERS FROM SEDIMENTATION, THE CONTRACTOR SHALL INSTALL STONE AND BLOCK INLET PROTECTION FOR ALL EXISTING AND PROPOSED INLETS AS SHOWN ON THE PLANS. ONCE INSTALLED, 1/2 INCH STONE AGGREGATE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL CATCH BASINS AND SURFACE INLETS AS ILLUSTRATED ON THE APPROVED PLANS. THIS BARRIER WILL ALLOW STORMWATER TO BE FILTERED PRIOR TO REACHING THE BASIN INLET GRATE.  THE STONE AGGREGATE SHALL BE INSPECTED WEEKLY PRIOR TO AND WITHIN 24 HOURS FOLLOWING A RAIN EVENT 1/4" OR GREATER. CARE SHALL BE TAKEN TO ENSURE THAT ALL STONE AGGREGATE IS PROPERLY LOCATED AND SECURE AND DO NOT BECOME DISPLACED. THE STONE AGGREGATE SHALL BE INSPECTED FOR ACCUMULATED SEDIMENTS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE DEVICE AND DEPOSITED NOT LESS THAN 100 FEET FROM WETLAND OR WATERCOURSE.
INLET PROTECTION (SILTSACK)	ALL	IN ORDER TO PROVIDE ADDITIONAL PROTECTION FOR THE RECEIVING WATERS FROM SEDIMENTATION AND TURBIDITY, THE CONTRACTOR SHALL INSTALL A SILTSACK SEDIMENT CAPTURE DEVICE ON ALL EXISTING AND PROPOSED INLETS AS SHOWN ON THE PLANS. THIS DEVICE SHOULD BE INSTALLED IN ADDITION TO THE STONE & BLOCK DROP INLET PROTECTION. THIS BARRIER WILL PROVIDE ADDITIONAL FILTERING OF THE STORMWATER RUNOFF PRIOR TO BEING DISCHARGED FROM THE CATCH BASIN.  WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, THE SILTSACK IS FULL AND SHOULD BE EMPTIED. TO REMOVE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK. TO EMPTY SILTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SILTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE DEVICE AND DEPOSITED NOT LESS THAN 100 FEET FROM WETLAND OR WATERCOURSE.
DUST CONTROL	ALL	DURING DRY WEATHER, FOR AREAS OF EXPOSED SOIL WHERE IT IS NOT FEASIBLE TO ESTABLISH TEMPORARY GROUND COVER DUE TO CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL WET AREAS WITH WATER AT LEAST TWICE A DAY IN ORDER TO CONTROL DUST. THE MOSTENING OF SUCH AREAS MAY BE INCREASED TO FOUR TIMES A DAY DURING PERIODS OF LITTLE RAIN AS DETERMINED BY THE ENGINEER AND/OR THE CONTRACTOR.
TEMPORARY SEEDING	ALL	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 FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. FOR CONSTRUCTION SITES THAT DIRECTLY DISCHARGE TO ONE OF THE 303(D) SEGMENTS LISTED IN APPENDIX E OF GP-015-002, OR IS LOCATED IN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF GP-015-002, 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. WHEN ACTIVITIES TEMPORARILY CEASE DURING CONSTRUCTION, SOIL STOCKPILES AND EXPOSED SOIL SHOULD BE STABILIZED BY SEED, MULCH OR OTHER APPROPRIATE MEASURES.
	SPRING/SUMMER/EARLY FALL	SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (APPROXIMATELY 0.7 LB./1000 SQ. FT. OR USE 1 LB./1000 SQ. FT.)
	LATE FALL/EARLY WINTER	SEED THE AREA WITH CERTIFIED AROOSTOOK WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.)
MULCH	APRIL 1 – NOVEMBER 30	ON ALL AREAS OF EXPOSED SOIL WHICH WILL NOT BE DISTURBED AGAIN WITHIN 7 DAYS, APPLY AT A RATE OF 1.5 TO 2.0 TONS PER ACRE.
WINTER MULCH	DECEMBER 1 – MARCH 31	ON ALL AREAS OF EXPOSED SOIL WHICH WILL NOT BE DISTURBED AGAIN WITHIN 7 DAYS, APPLY AT A RATE OF 3.0 TO 4.0 TONS PER ACRE.. EROSION CONTROL BLANKET MAY BE USED AS A SUBSTITUTE FOR WINTER MULCH.
INSPECTIONS	UNTIL SITE IS PERMANENTLY STABILIZED	ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR. SEDIMENT DEPOSITS SHALL BE REMOVED BY THE CONTRACTOR WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE. SEDIMENTS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION.

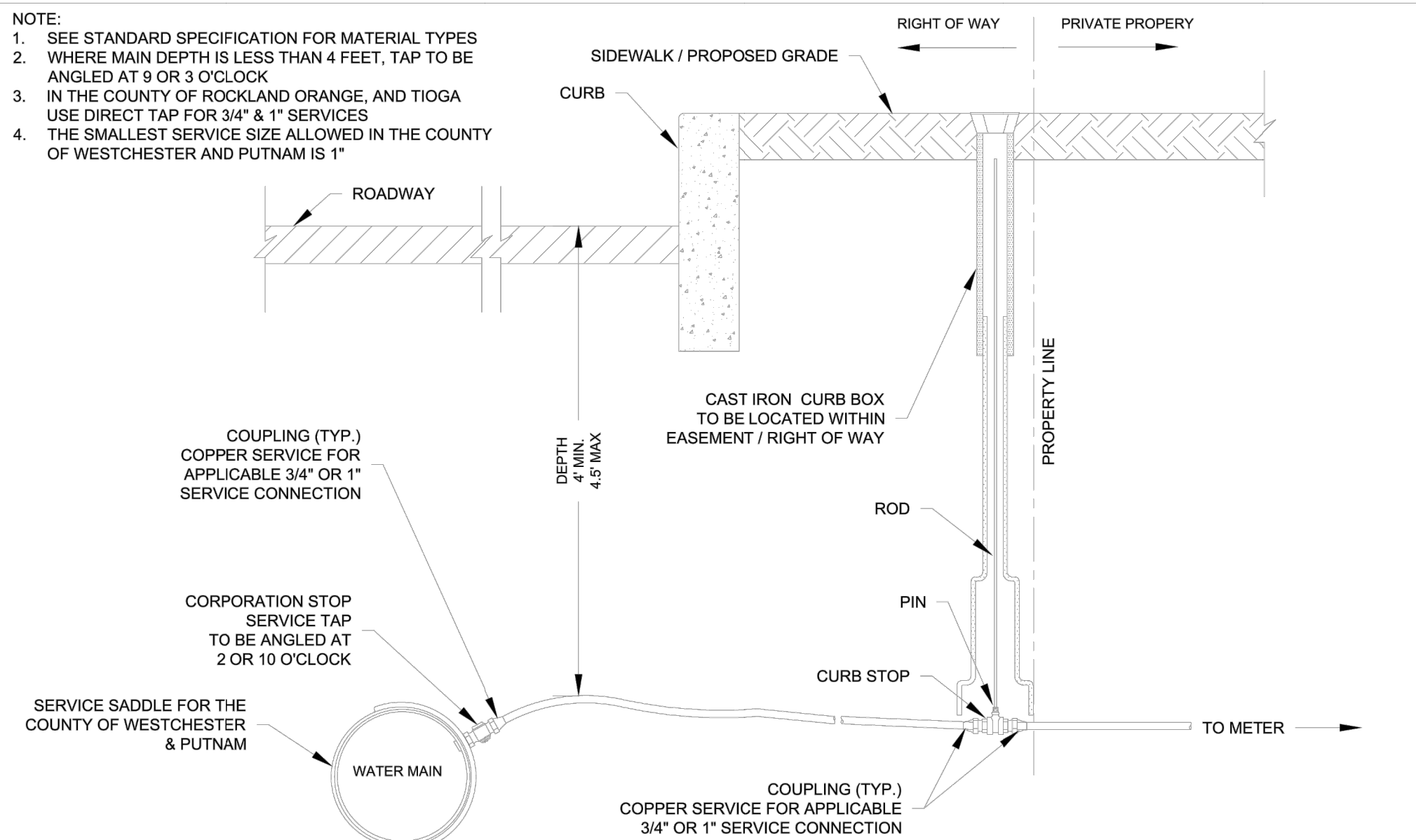


### STEP DETAIL

STEPS SHALL BE PLACED APPROXIMATELY 12" ON CENTER FOR THE FULL DEPTH OF THE MANHOLE. NO STEPS WILL BE REQUIRED IN MANHOLES LESS THAN 4' DEEP.

### PRECAST CONCRETE DRAIN MANHOLE

- NOTE:
- SEE STANDARD SPECIFICATION FOR MATERIAL TYPES
  - WHERE MAIN DEPTH IS LESS THAN 4 FEET, TAP TO BE ANGLED AT 9 OR 3 O'CLOCK
  - IN THE COUNTY OF ROCKLAND ORANGE, AND TIoga USE DIRECT TAP FOR 3/4" & 1" SERVICES
  - THE SMALLEST SERVICE SIZE ALLOWED IN THE COUNTY OF WESTCHESTER AND PUTNAM IS 1"

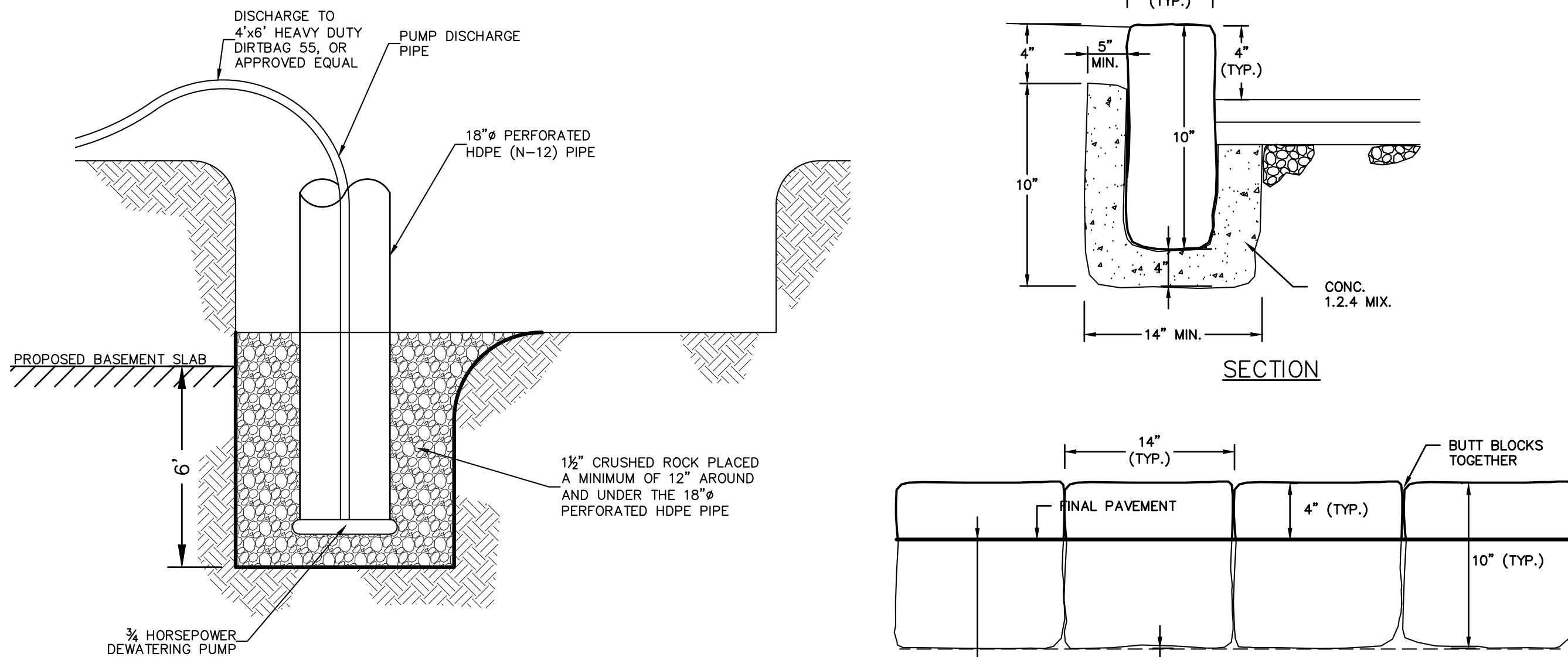


### SPECIFICATION DETAILS

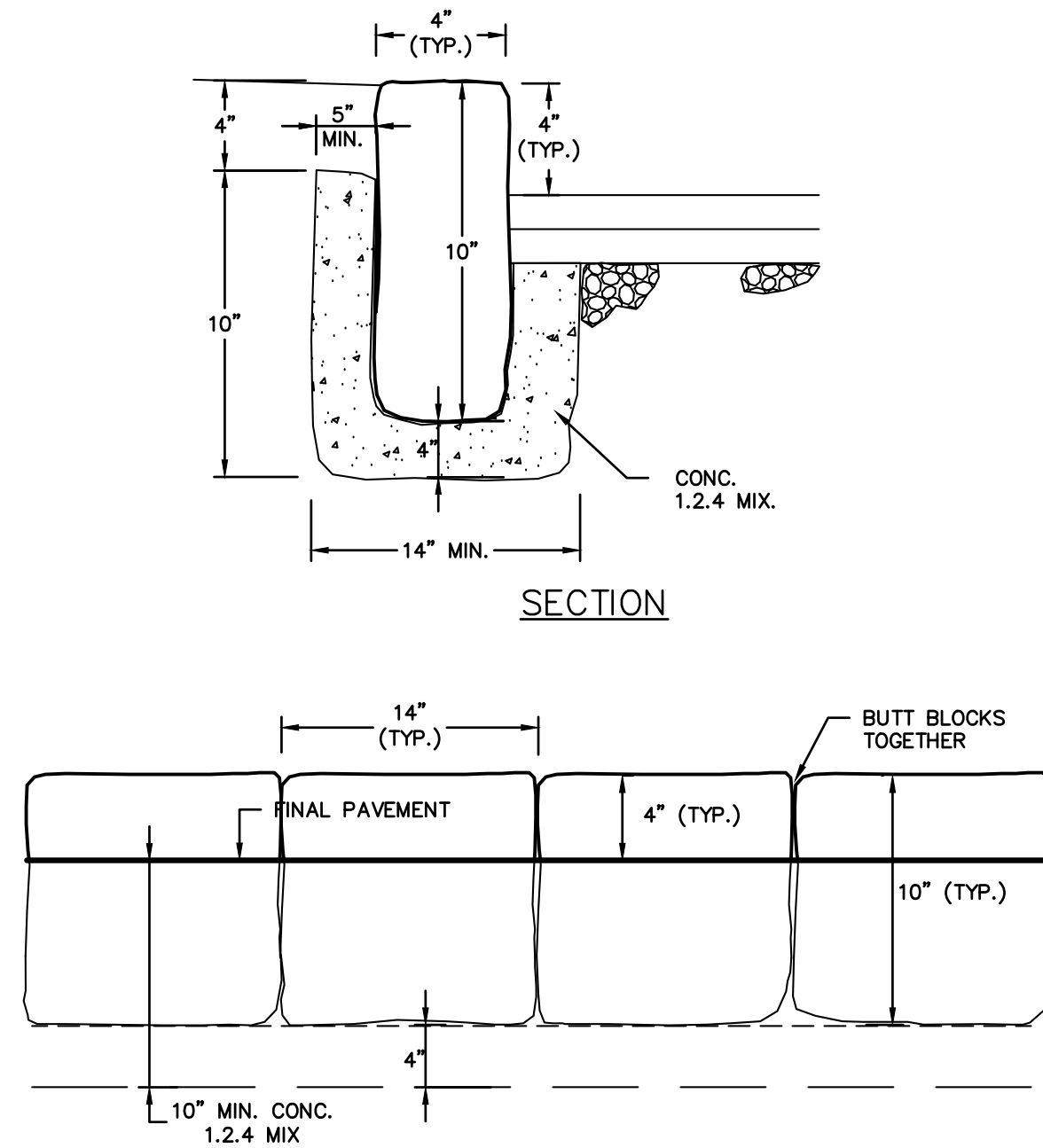
INSTALLATION OF WATER SYSTEMS APPURTENANCES

### DOMESTIC SERVICE CONNECTION 3/4" & 1" SERVICE CONNECTION

DRAFTED BY: AR  
APPROVED BY: SWNY DIV. NB  
SCALE: NTS  
FIGURE 3.01  
DATE: 1/01/2021



### TYPICAL DEWATERING SUMP



### ELEVATION

### BELGIUM BLOCK CURB DETAIL

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

Revised per Village comments dated 2/10/23		02/16/23	Revisions	Date	THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE
REVISED PER VILLAGE COMMENTS		07/19/23			
PROJECT: PROPOSED SINGLE-FAMILY DWELLING 79 N. MOUNTAIN DRIVE VILLAGE OF DOBBS FERRY WESTCHESTER COUNTY – NEW YORK					
DETAILS					
<div>HEC</div> <div>HUDSON ENGINEERING &amp; CONSULTING, P.C. 45 Knollwood Road – Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086</div> <div>© 2022</div>					
<div>STATE OF NEW YORK MICHAEL F. STERN 1006087 LICENSED PROFESSIONAL ENGINEER</div>					
Date: 12/14/22 Sheet: 5 Scale: N.T.S. Designed By: N.S. Checked By: M.S. Sheet No. C-5					