

PROPOSED RESIDENTIAL DEVELOPMENT

129-133 PROSPECT AVENUE

MAMARONECK, NY 10543

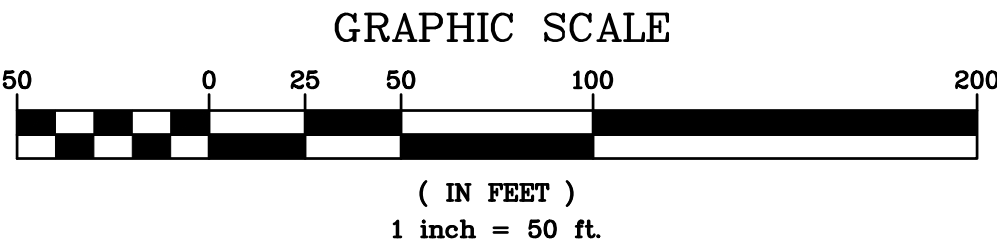
JUNE 15, 2022

REVISED OCTOBER 18, 2022



INDEX OF DRAWINGS		
Prepared by Hudson Engineering & Consulting, P.C.		
Sheet No.	Sheet Title	Last Revised Date
COVER	Cover Sheet	10/18/2022
C-1	Existing Conditions/Demolition Plan	10/18/2022
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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.



10/18/22
Date

REV. PER VALUE CONSULTANTS COMMENTS
No.

Revisions

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT:
PROPOSED RESIDENTIAL DEVELOPMENT
129-133 PROSPECT AVENUE
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY - NEW YORK

COVER SHEET

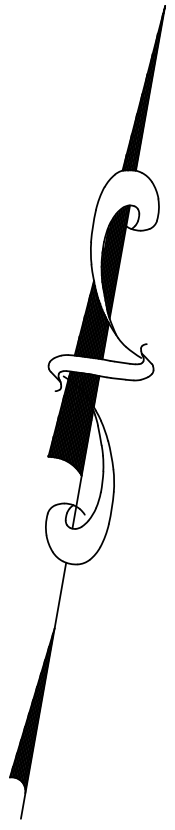
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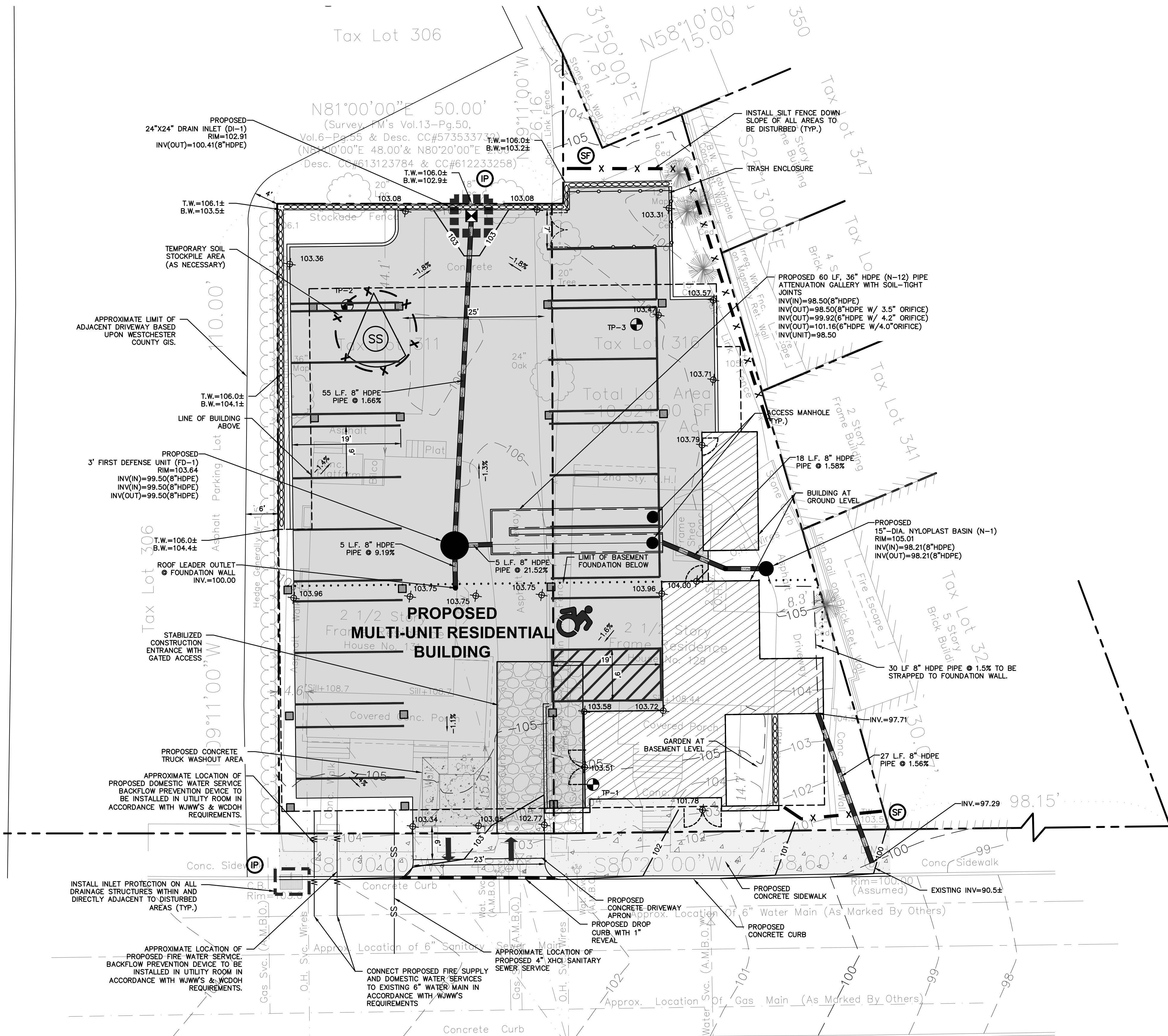
STATE OF NEW YORK
MICHAEL F. STERN
No. 008637
LICENSED PROFESSIONAL ENGINEER

Date: 06/15/22 Sheet: 1
Scale: 1" = 50'
Designed By: T.K.
Checked By: M.S.
Sheet No. 5

COVER



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.



LEGEND

PROPERTY LINE	---
PROPOSED CONCRETE CURB	---
PROPOSED CONCRETE SIDEWALK	---
PROPOSED ASPHALT PAVEMENT	---
PROPOSED CONTOUR	-30-
PROPOSED SPOT GRADE	+10.20
PROPOSED STORM PIPE	---
PROPOSED DRAIN INLET	IP
TEMPORARY INLET PROTECTION	IP
TEMPORARY SILT FENCE	X-X-SF
TEMPORARY CONSTRUCTION FENCE	CF
STABILIZED CONSTRUCTION ENTRANCE	---
TEMPORARY SOIL STOCKPILE AREA	SS

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 A.C.I., A.S.C., 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 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 GL. 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.

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 - FINAL 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 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.

CONSTRUCTION NOTES:

1. ALL RIGHT-OF-WAY IMPROVEMENTS TO BE COMPLETED IN ACCORDANCE WITH VILLAGE OF MAMARONECK STANDARDS.
2. ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY PROVIDERS REGULATIONS.
3. PROVIDE CONSTRUCTION FENCE AROUND THE PERIMETER OF THE PROPERTY. PROVIDE GATED ACCESS TO THE SITE.

CUT FILL ANALYSIS:

CUT: 1,900 C.Y.
FILL: 0.0 C.Y.
NET: 1,900 C.Y. (CUT)

TEST HOLE DATA:

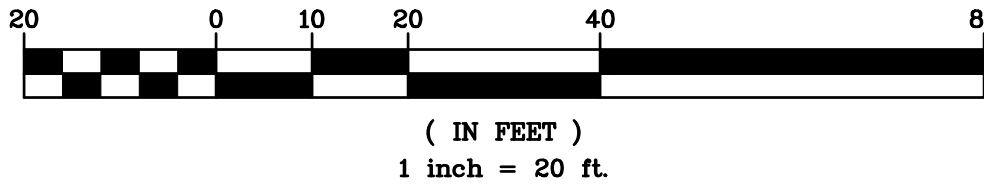
TEST HOLE #1
DEPTH - 96"
0-12" TOPSOIL
12-96" SANDY SILT W/ LARGE ROCKS
NO GROUNDWATER
NO LEDGE ROCK
PERC. = 9 INCHES/HOUR

TEST HOLE #2
DEPTH - 68"
0-24" TOPSOIL
24-68" BROWN COMPACT SANDY LOAM
NO GROUNDWATER
LEDGE ROCK @ 68"
PERC. = 11 INCHES/HOUR

TEST HOLE #3
DEPTH - 57"
0-6" TOPSOIL
6-36" FILL W/ LARGE ROCKS
36-57" FINE SANDY LOAM
NO GROUNDWATER
LEDGE ROCK @ 57"
PERC. = 27 INCHES/HOUR

EXISTING INFORMATION SHOWN HEREON
PROVIDED BY RICHARD J DOMATO
DATED JANUARY 5, 2022

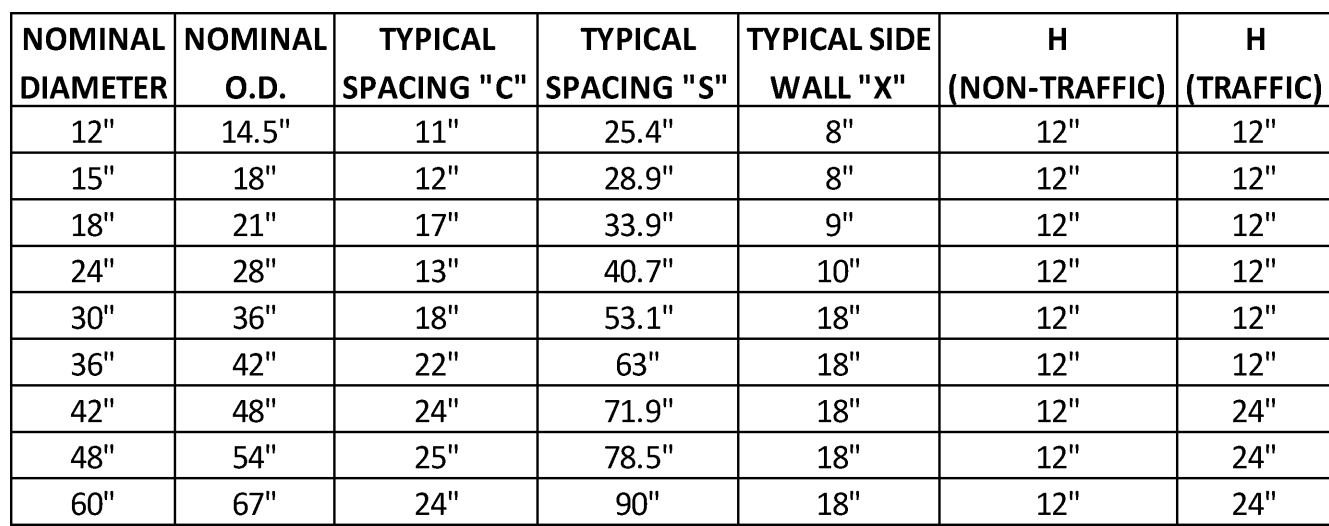
GRAPHIC SCALE



CONTRACTOR SHALL CONTACT DESIGN ENGINEER TO SCHEDULE A SITE INSPECTION PRIOR TO BACKFILLING INFILTRATION/ATTENUATION SYSTEM(S). SHOULD THE CONTRACTOR BACKFILL PRIOR TO INSPECTION, THE CONTRACTOR SHALL EXPOSE THE SYSTEM AT THEIR OWN EXPENSE.

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PROJECT:		PROPOSED RESIDENTIAL DEVELOPMENT 129-133 PROSPECT AVENUE VILLAGE OF MAMARONECK WESTCHESTER COUNTY - NEW YORK	
STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL PLAN		HEC HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road, Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2022	
Revisions		Date: 06/15/22 Sheet: 3 Scale: 1" = 10' Designed By: T.K. Checked By: M.S. Sheet No. C-2	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE		STATE OF NEW YORK MICHAEL J. STERN LICENSED PROFESSIONAL ENGINEER No. 90851	



NOTES:

1. THE ATTENUATION/EXFILTRATION GALLERY SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION, AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
2. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN THE TRENCH IS OPEN.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED TO OBTAIN A FIRM, UNIFORM FOUNDATION. MATERIALS AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MAT.
4. BEDDING: SUITABLE MATERIAL SHALL BE BANK FURNISHED MATERIAL. THE CONTRACTOR SHALL PROVIDE A MINIMUM 6" BEDDING OF SUITABLE MATERIAL TO THE TRENCH BOTTOM. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 12" MINIMUM.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE BANK FURNISHED MATERIAL. THE TRENCH SHALL BE BACKFILLED TO NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO THE DESIGN MATERIAL. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER OVER ALL ATTENUATION/EXFILTRATION GALLERIES IN NON-TRAFFIC APPLICATIONS (GRASSY AREAS) SHALL BE 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER AND 18" OF COVER FOR 48" DIAMETER AND THEREAFTER. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. ALL PIPE STUBS, ORIFICE LIDS, FITTINGS, BENDS, TEES AND MANHOLE MANHOLE MANHOLE MANHOLE MANHOLE



* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.



1. WHEN SIDEWALK ABUTS A ROADWAY, CURB AND SIDEWALK SHALL BE MONOLITHICALLY CONSTRUCTED.
2. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE SIDEWALKS SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 608 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISIONS.
3. THE GENERAL CONSTRUCTION DETAILS FOR MANUFACTURING AND TRANSPORTING CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 601, PORTLAND CEMENT CONCRETE - GENERAL.
4. WELDED WIRE FABRIC REINFORCEMENT SHALL BE MADE OF W2.0 OR W3 WIRE AT 8 INCH CENTERS TRANSVERSELY CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS D IN ACCORDANCE WITH SECTION 601 "PORTLAND CEMENT CONCRETE - GENERAL." ALL CONCRETE SHALL CONTAIN A WATER-REDUCING ADMIXTURE MEETING THE REQUIREMENTS OF 8711-08 IN SUCH A QUANTITY AS TO PROVIDE A MINIMUM OF 25% REDUCTION OF THE DESIGN WATER CONTENT BY USING A NORMAL RANGE WATER-REDUCER. W/F SHALL BE MANUFACTURED IN SHEETS AND PLACED WITH IN CONCRETE BY CHAIRING.
5. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
6. INSTALL A PREMOULDED RESILIENT JOINT FILLER, 8705-07, AT ALL JOINTS BETWEEN SIDEWALK AND CURB, PAVEMENT, BUILDING, ETC. THE PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF ASTM D1751.
7. THE EXPANSION JOINTS SHALL BE LOCATED AT ALL IMMovable OBJECTS (BRIDGE SUBSTRUCTURES, ETC.), WHERE SHOWN ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER. EXPANSION JOINTS SHALL NOT BE REQUIRED AT 20 FOOT INTERVALS.
8. PREMOULDED RESILIENT JOINT FILLER (8705-07), USE 3/8 - 5/8 INCH THICK FILLER IN TRANSVERSE EXPANSION JOINT ASSEMBLIES ONLY. INCLUDE A ONE-PECCPREMOULDED RESILIENT JOINT FILLER IN THE ASSEMBLY THAT EXTENDS COMPLETELY THROUGH THE SLAB WITHIN 1/2 INCH OF EITHER EQUAL THE FULL DEPTH OF THE SLAB, OR EXTEND FROM THE BOTTOM OF THE SLAB TO WITHIN 1 1/2 - 2 INCHES OF THE TOP OF THE SLAB WITH A FINISHING CAP THAT EXTENDS TO THE TOP OF THE SLAB.
9. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONCRETE SURFACE SHALL BE SCORED AND TOOLED AT INTERVALS OF 5 FEET. SCORE THE CONCRETE A MINIMUM 1/8 INCH TO A MAXIMUM 1/4 INCH IN WIDTH AND TO A MINIMUM DEPTH OF ONE-THIRD TO ONE-FOURTH OF THE SLAB THICKNESS.
10. 3 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EVERY 4 FEET. 4 AND 5 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE SIDEWALK. SIDEWALKS MAY BE CONVENTIONALLY FORMED OR MACHINE FORMED.
11. ONLY MAGNESIUM FLOATS AND TROWELS ARE ALLOWED. THE USE OF ALUMINUM OR STEEL FINISHING TROWELS AND TOOLS IS PROHIBITED. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH SURFACE AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE. THE EDGES AND SCORED JOINTS OF ALL SIDEWALK SLABS SHALL BE TOOLED WITH AN EDGING TOOL, HAVING A 1/4 INCH RADIUS.
12. ALL WORK SHALL BE IN ACCORDANCE WITH NYSOTD SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES AND GRADSHOWN ON THE PLANS OR ESTABLISHED BY THE ENGINEER.
13. SIDEWALK SHALL BE PAID UNDER NYSOTD ITEM NO. 608.0101. CRUSHED STONE SHALL BE PAID UNDER NYSOTD ITEM NO. 623.12.



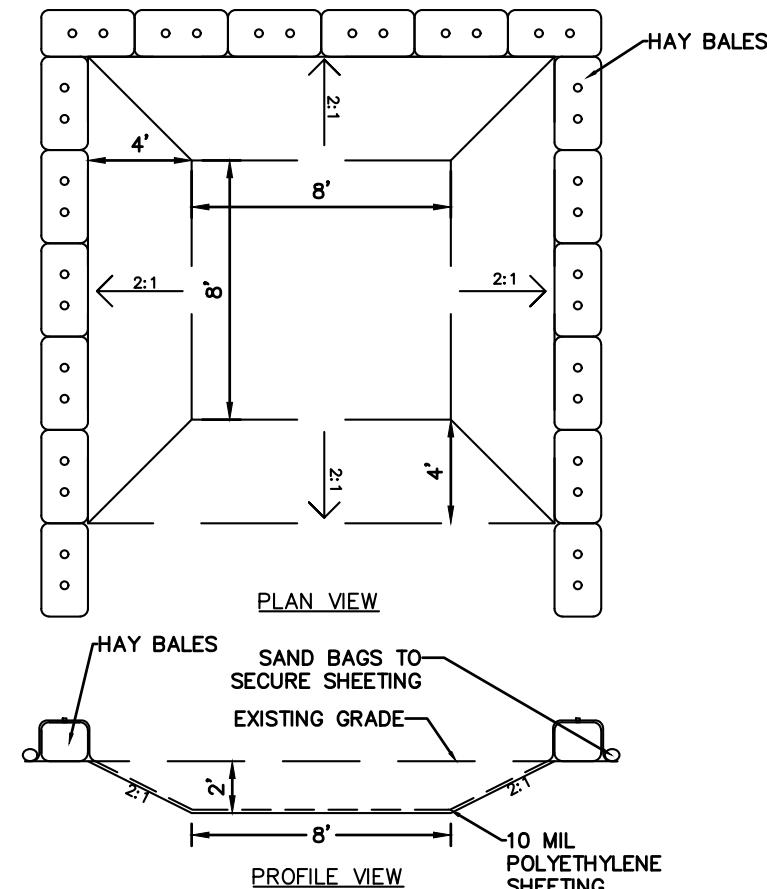
NOTES:

1. END PLATE TO BE INSTALLED BY MANUFACTURER.
2. ALL ORIFICES SHALL BE DRILLED BY MANUFACTURER.



NOTES:

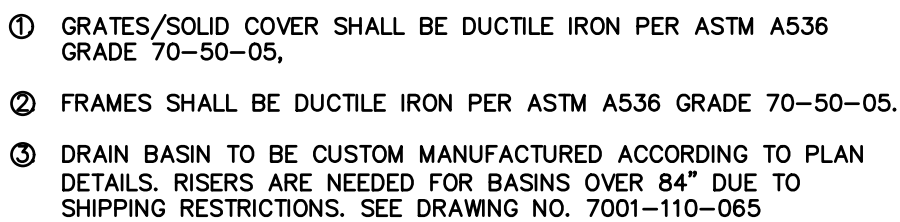
1. CONCRETE - 3,500 PSI MINIMUM STRENGTH @ 28 DAYS
2. STEEL REINFORCEMENT - ASTM A-615, # 4 REBAR, GRADE 60
3. COVER TO STEEL - 1 1/2" MINIMUM
4. DESIGN LOADING - AASHTO HS20-44
5. EARTH COVER - 0 TO 5 FEET
6. CONSTRUCTION JOINT - LAPPED



NOTES:

1. CONCRETE WASHOUT AREA TO BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. CONCRETE WASHOUT AREA TO BE ENTIRELY SELF CONTAINED.
2. ALL WASHWATER SHALL BE REMOVED AROUND THE PERIMETER OF CONCRETE WASHOUT AREA FOR CONTAINMENT.
3. WASHOUT AREA SHALL BE LINED WITH PLASTIC SHEETING NO THINNER THAN 10 MILS. ALL WASHWATER SHALL BE COLLECTED IN PLASTIC LINED BAGS OR TUBS. PLASTIC LINED BAGS ON ALL SIDES EXCEPT ACCESS SIDE. PLASTIC LINING TO BE REPLACED WITH EACH CLEANING.
4. WASHWATER TO BE PROVIDED AT THE CONSTRUCTION ENTRANCE AND CONCRETE AREAS INDICATING LOCATION OF WASHOUT AREA.
5. WASHOUT AREA TO BE ENCLOSED IN CONSTRUCTION FENCE.
6. WASHWATER SHALL BE STORED IN TUBS OR BAGS TO ENSURE LINER IS INTACT AND ADEQUATE CAPACITY IS AVAILABLE AT ALL TIMES. WASHOUT AREAS SHALL BE DEACTIVATED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION OR LEAKING WASHWATER AREAS TO BE DEACTIVATED AND REPAIRED IMMEDIATELY.
7. CONCRETE WASTE SHALL BE REMOVED AND DISPOSED OF ONCE IT REACHES THE PERIMETER OF THE WASHOUT AREA. WASTE SHALL BE STORED IN TUBS OR BAGS AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS, REGULATIONS, AND GUIDELINES OF MUNICIPALITY.
8. PREFABRICATED CONCRETE WASHOUT CONTAINERS MAY BE UTILIZED ONLY BY PRIOR APPROVAL FROM THE CITY'S ENGINEERING DEPARTMENT.

CONCRETE WASHOUT AREA



- ④ DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- ⑤ ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-013.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CCS	7001-110-208
SOLID COVER	MEETS H-20	1599CGD	7001-110-209
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501Di	7001-110-073

NOTES

1. INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. PRODUCT SHALL BE NYLOPLAST DRAIN BASIN MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS (ADS) OR APPROVED EQUAL.

15"Ø NYLOPLAST BASIN

The drawing consists of two parts: a cross-section and a plan view.

Cross-Section: Shows a rectangular structure with a width of 25" MIN. and a height of 1'-0". The interior is filled with 3 in. CLEAN STONE. The structure is supported by a base of COMPACTED SUBGRADE. A FILTER FABRIC is shown at the bottom of the stone layer.

Plan View: Shows the top-down view of the structure, which is rectangular with a length of 50' MIN. The structure is shown with a thick border, likely representing the stone layer. A label "START AT EXIST. PAVEMENT" with an arrow points to the left side of the structure.

INSTALLATION NOTES:

- STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
1. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE TRAIL).
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. STONE SHALL BE PLACED OVER THE FULL WIDTH OF THE DRIVE WHEN INGRESS OR EGRESS OCCURS.
4. STONE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
5. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION SHALL BE COLLECTED AND DISCHARGED TO THE STREET OR TO AN APPROVED DRAIN. BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. STONE 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 REPLACEMENT OF STONE AS NECESSARY.
7. WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING OF STONE SHALL BE DONE IN A MANNER THAT DOES NOT DISCHARGE 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.

The diagram illustrates the Toe-In Method in two parts. The top part is a cross-sectional view showing a vertical shaft being installed into the ground. A 'POST' is at the surface, connected to a 'SUPPORT NET' and 'FILTER FABRIC'. An arrow indicates the 'FLOW' direction downwards. The shaft is surrounded by 'BACKFILL' and terminates in 'NATIVE SOIL'. The bottom part is a 'TOP VIEW' showing a rectangular area divided into 'SECTION A' and 'SECTION B' by a vertical line. A 'COUPLER' is shown at the top center, with points 'A' and 'B' marked on either side. Section A contains a large arrow pointing left, and Section B contains a large arrow pointing right, indicating the direction of soil displacement or material flow.

JOINING SECTIONS OF FENCING

INSTALLATION NOTES:

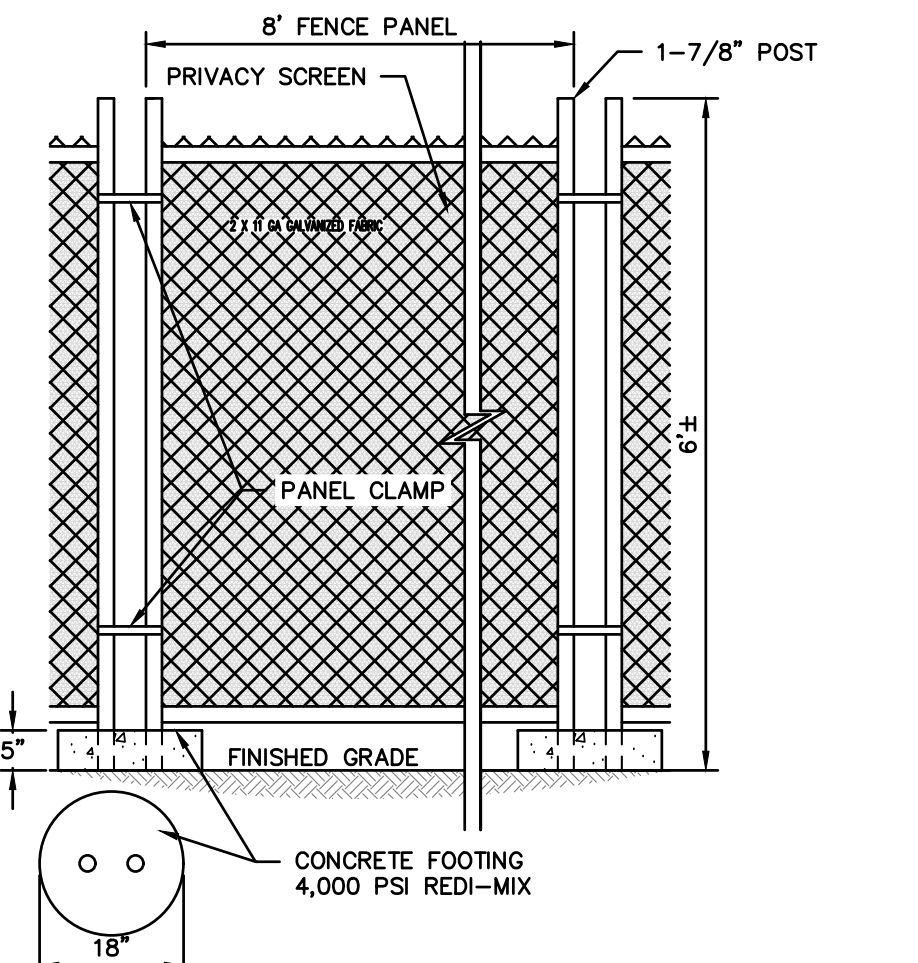
1. EXCAVATE A 4 INCH DEEP 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM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

Diagram illustrating a vegetated pile structure. The pile is a conical mound covered with vegetation (represented by small triangles). The top surface is labeled "STABILIZE ENTIRE PILE WITH VEGETATION OR COVER". The slope is labeled "2" and "1" with the text "SLOPE OR LESS". The base of the pile is reinforced with a "SIL TENCE" (likely a geotextile or similar material). The base is also labeled "MIN. SLOPE".

INSTALLATION NOTES

INSTALLATION NOTES:

1. AREA AROUND FOR STOCKPILE OPERATIONS SHALL BE DRY AND STABLE.
2. SOILS OR FILL TO BE STOCKPILED ON SITE DURING CUTTING AND FILLING ACTIVITIES SHALL BE STOCKPILED WITHIN 50 FEET OF THE EXISTING ELEVATION OF THE SITE WITH A MINIMUM OF 50-75 FEET 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 STAGGERED WITH VEGETATION OR COVERED.
5. STOCKPILES REMAINING ON PLACE MORE THAN ONE WEEK SHALL BE SEEDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.
6. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

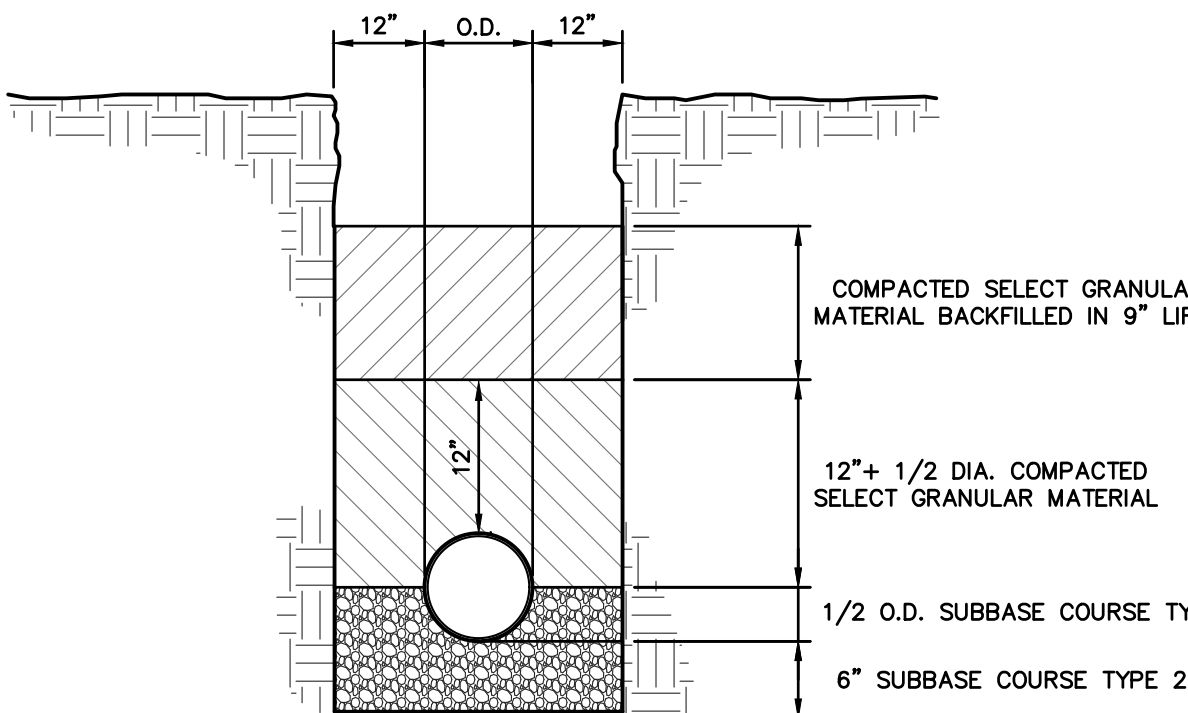


PLAN VIEW

NOTES:

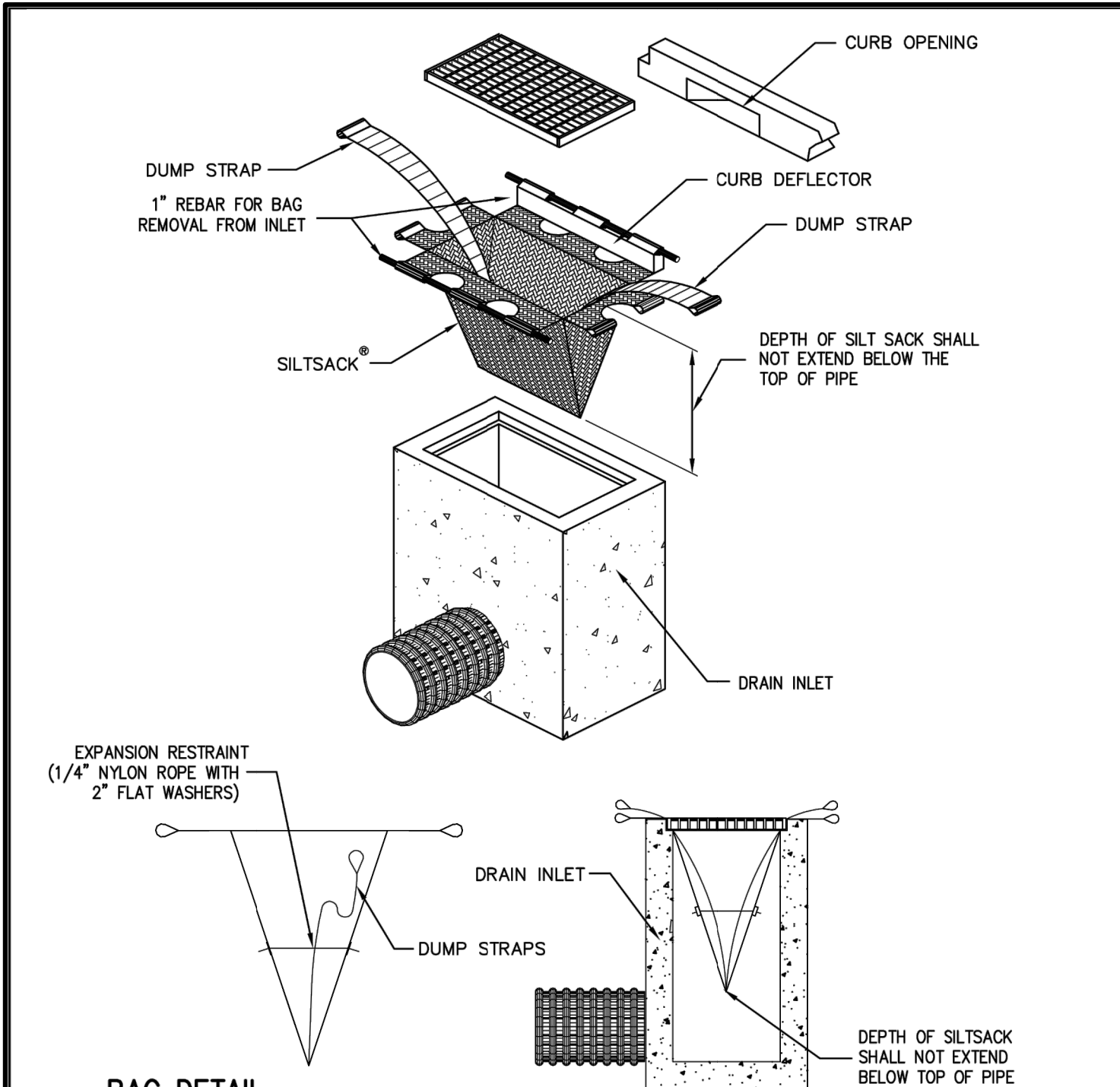
1. CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
2. CONTRACTOR SHALL INSTALL GREEN PRIVACY SCREENING FABRIC OR APPROVED EQUAL AROUND THE PERIMETER OF THE TEMPORARY CONSTRUCTION FENCING.
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES OF THE PRIVACY SCREENING TO THE ENGINEER FOR REVIEW AND APPROVAL.
4. NO PORTION OF THE FENCE SHALL EXCEED 6- FEET IN HEIGHT

TEMPORARY CHAIN LINK CONSTRUCTION FENCE



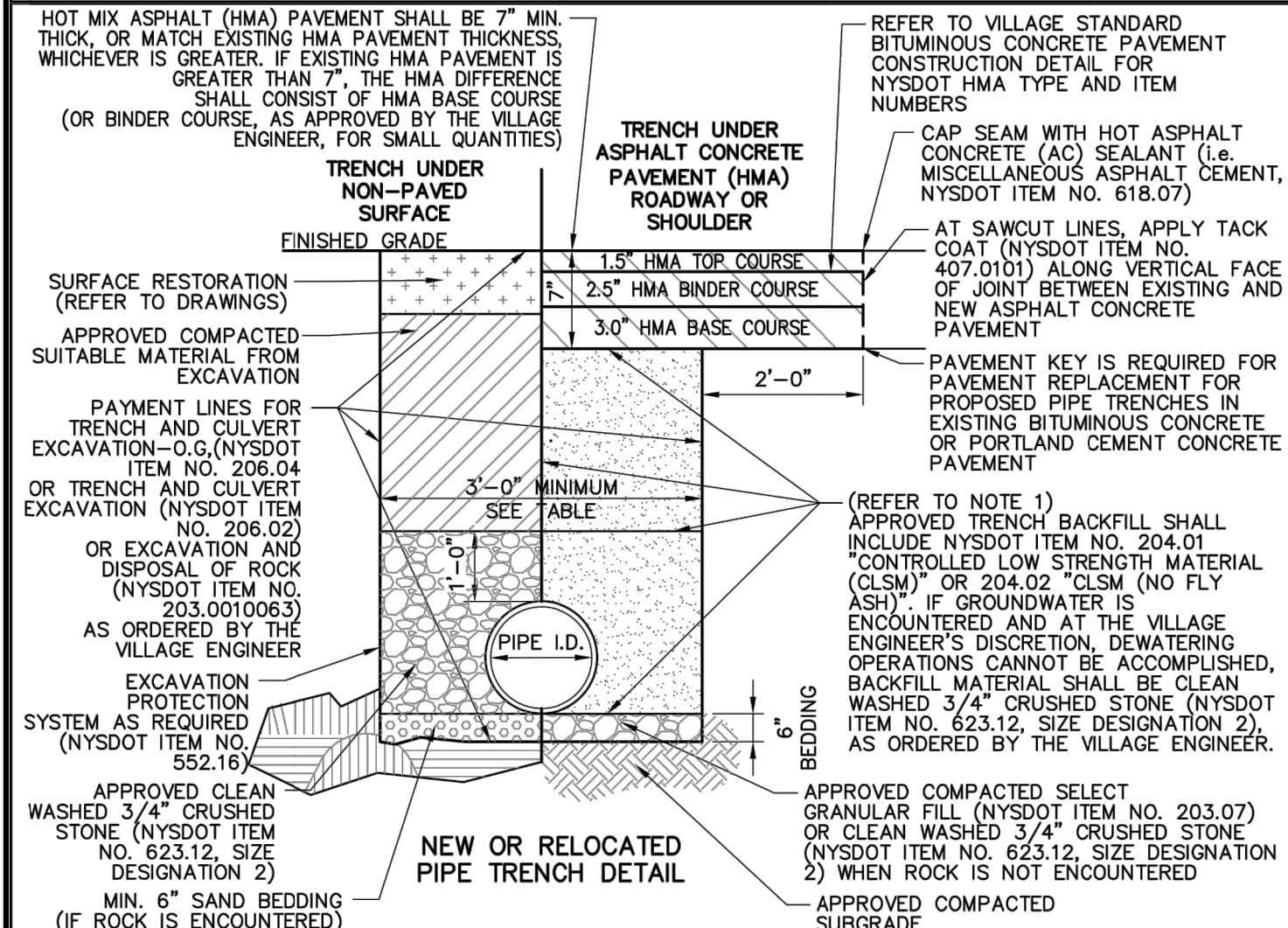
TRENCH BEDDING

[illegible]



PROPERTIES	TEST METHOD	UNITS	NOTES:
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS	
GRAB TENSILE ELONGATION	ASTM D-4632	20 %	
PUNCTURE	ASTM D-4833	135 LBS	
MULLEN BURST	ASTM D-3786	420 PSI	
TRAPZOID TEAR	ASTM D-4533	45 LBS	
UV RESISTANCE	ASTM D-4355	90 %	
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE	
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT	
PERMITTIVITY	ASTM D-4491	1.5 SEC -1	

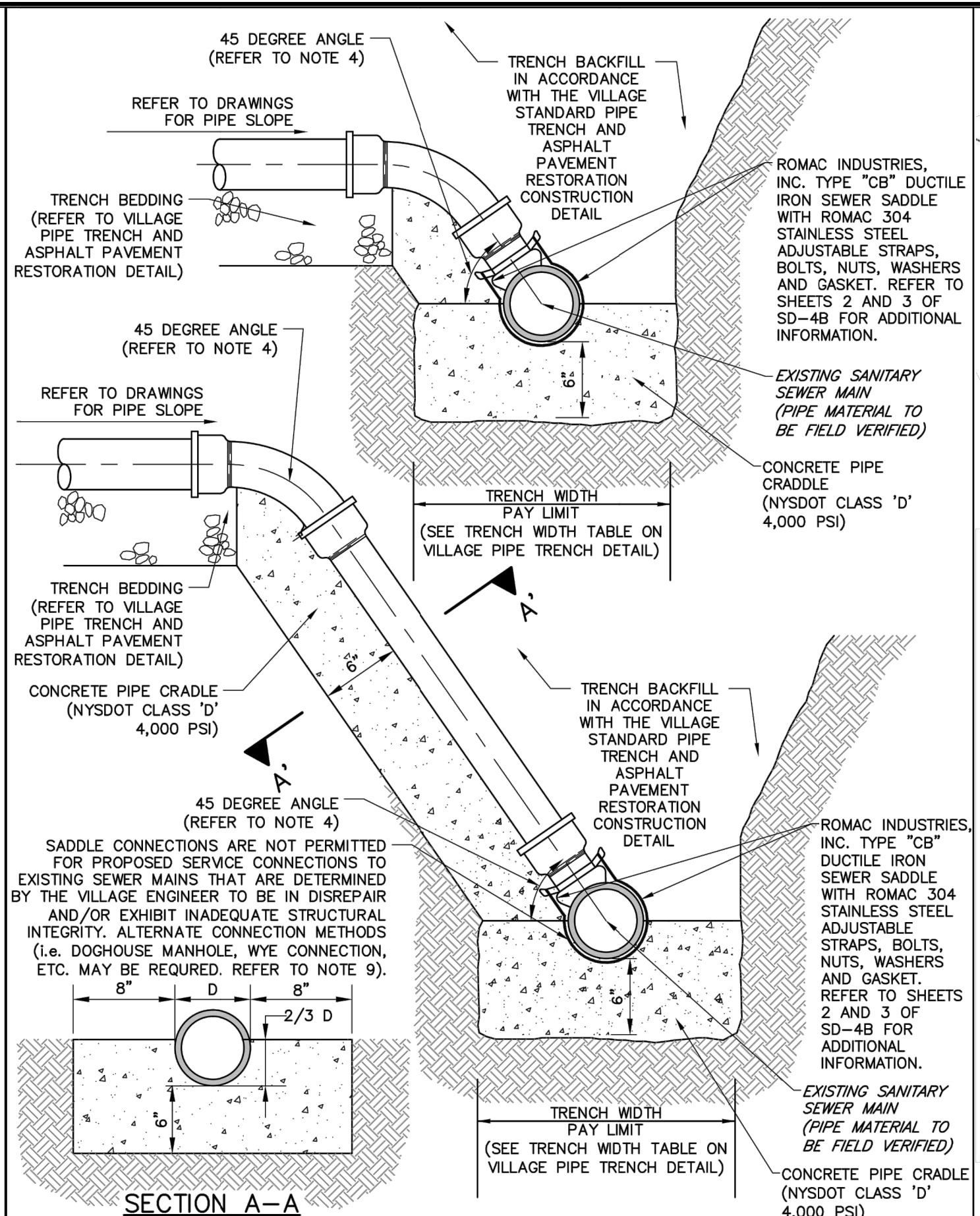
VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	CURB INLET PROTECTION (WITHIN RIGHT-OF-WAY AND/OR EXISTING PAVEMENT)	VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARS, PE DRAWN BY: ARS, PE CHECKED BY: ARS, PE VOM SD-30 (Sewerage)	PROJECT DETAILS VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) VILLAGE OF MAMARONECK, NY 10543 DATE: 03/13/2014 SD-1E



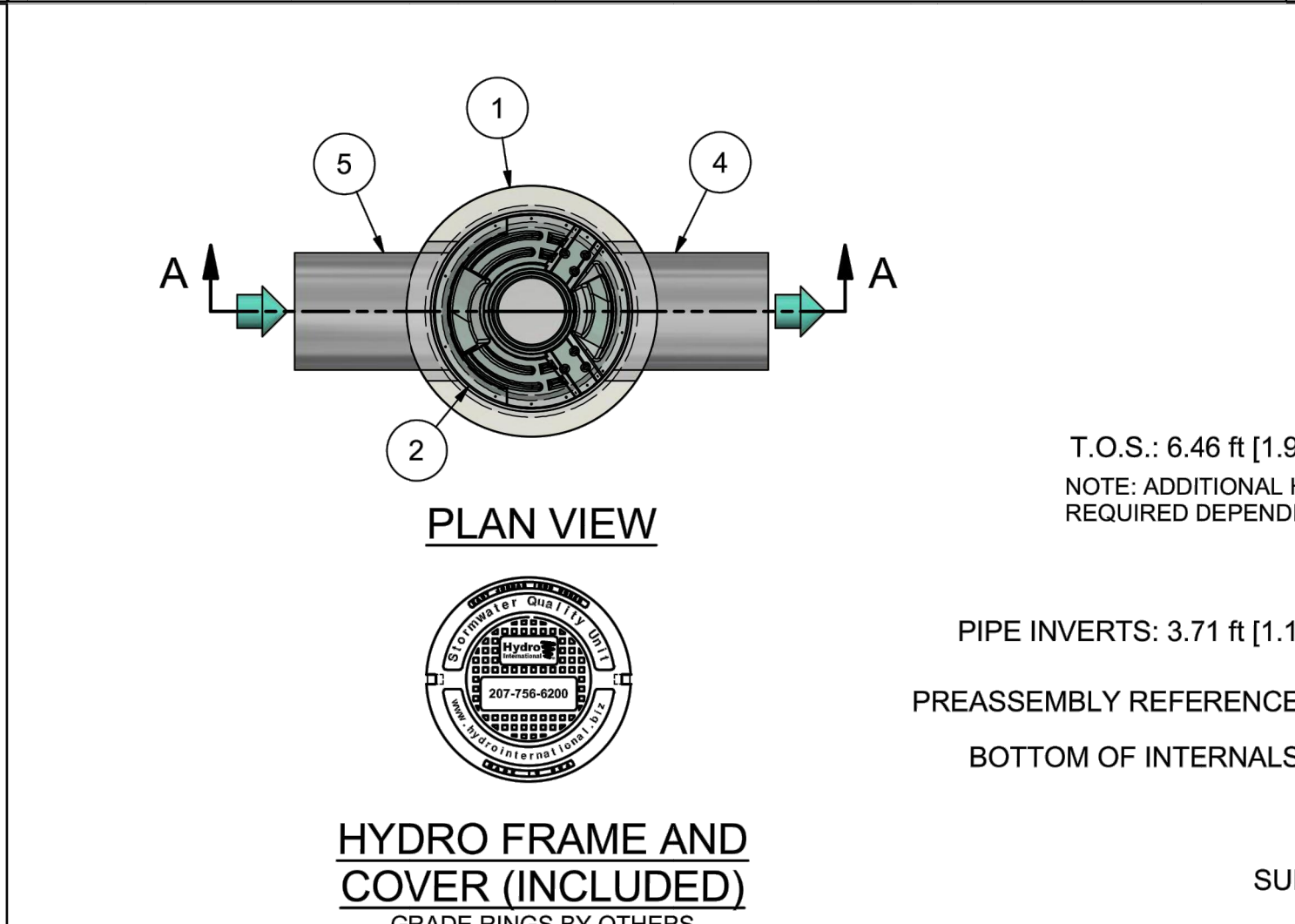
PIPE INSTALLATION IN
UNSTABLE OR UNSUITABLE SOIL CONDITIONS

EXCAVATION PAYMENT WIDTHS	
PIPE INSIDE DIAMETER (I.D.)	TRENCH WIDTH
3	3'-0"
4	3'-0"
6	3'-0"
8	3'-0"
10	3'-0"
12	3'-0"
14	3'-6"
16	3'-6"
18	3'-6"
20	4'-0"
24	4'-0"
30	4'-6"
36	5'-0"
42	5'-6"
48	6'-0"
54	6'-6"
60	7'-0"
64	7'-6"

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	PIPE TRENCH AND ASPHALT CONCRETE PAVEMENT RESTORATION	VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARS, PE DRAWN BY: ARS, PE CHECKED BY: ARS, PE VOM SD-30 (Sewerage)	PROJECT DETAILS VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) VILLAGE OF MAMARONECK, NY 10543 DATE: 03/13/2014 SD-2A



VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SANITARY SEWER LATERAL SADDLE CONNECTION (TO EXISTING MAINS EXCLUDING CLAY)	VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARS, PE DRAWN BY: ARS, PE CHECKED BY: ARS, PE VOM Sanitary Sewer Lateral Conn.	PROJECT DETAILS VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) VILLAGE OF MAMARONECK, NY 10543 DATE: 03/13/2014 SD-4B



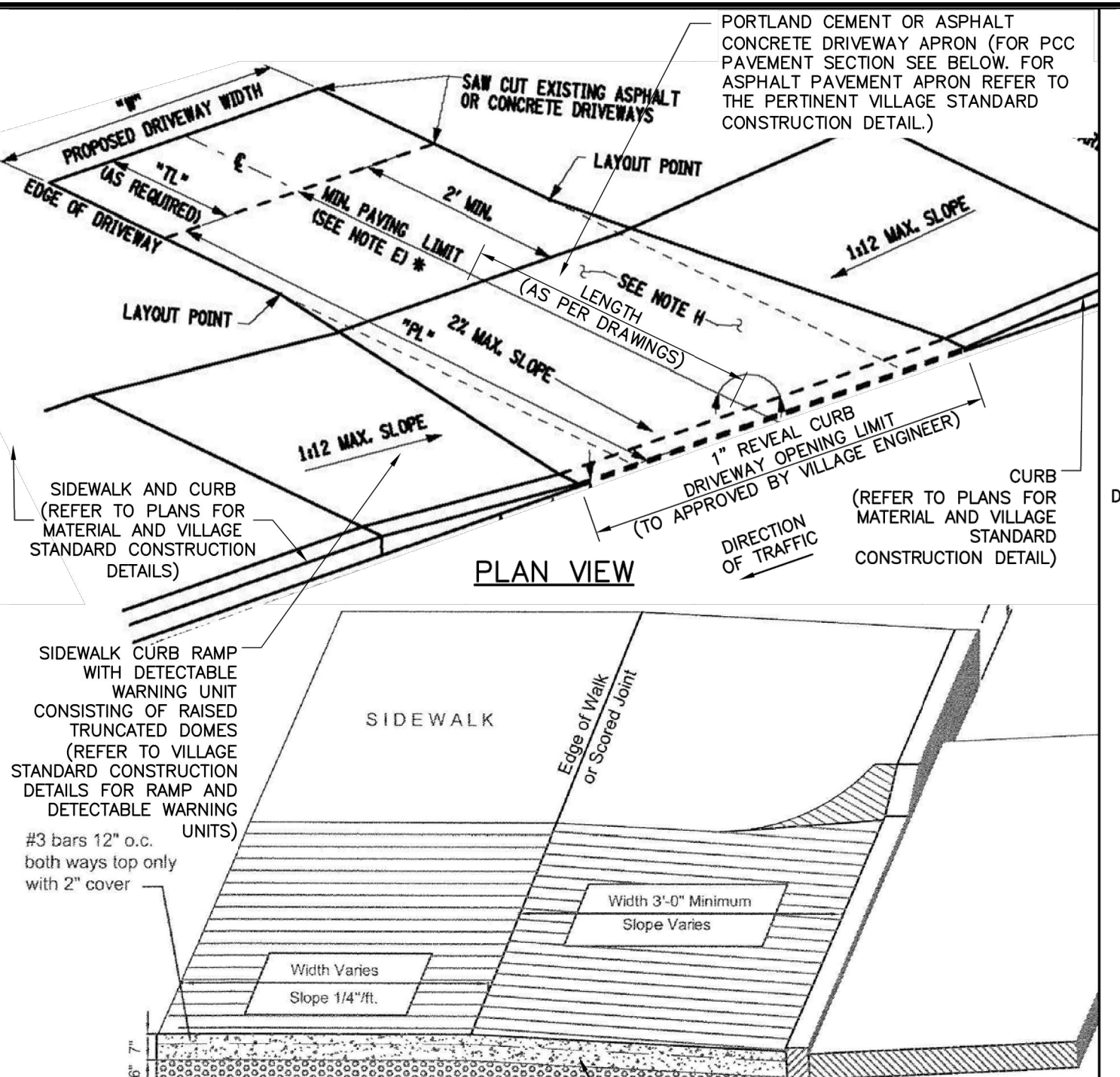
PRODUCT SPECIFICATION:

1. PEAK HYDRAULIC FLOW: 15.0 cfs (424 l/s)
2. MIN SEDIMENT STORAGE CAPACITY: 0.4 cu. yd. (0.3 cu. m.)
3. OIL STORAGE CAPACITY: 125 gal. (473 liters)
4. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 18 in. (450 mm)
5. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
6. NJCAT VERIFIED FOR GREATER THAN 85% TSS AT 1.06 cfs (29.9 l/s) FOR OK 110 (50-150 MICRONS)
7. NJCAT VERIFIED FOR GREATER THAN 90% TSS AT 0.85 cfs (24.0 l/s) FOR DOWN TO 50 MICRONS (50-1,000 MICRONS)

GENERAL NOTES:

1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 18".
3. Multiple inlet pipes possible (refer to project plan).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan.s)
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

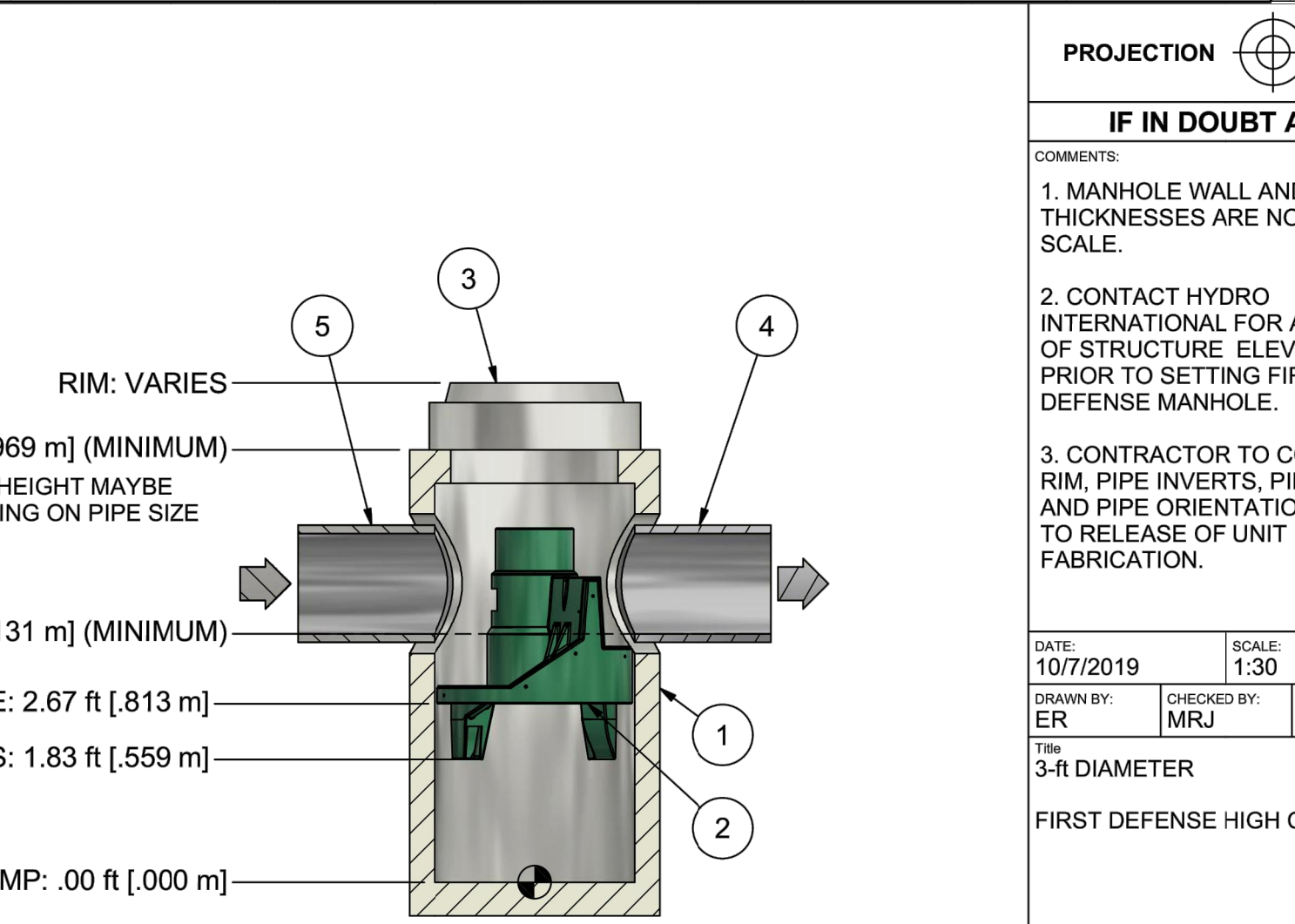
ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THERE OF) DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.



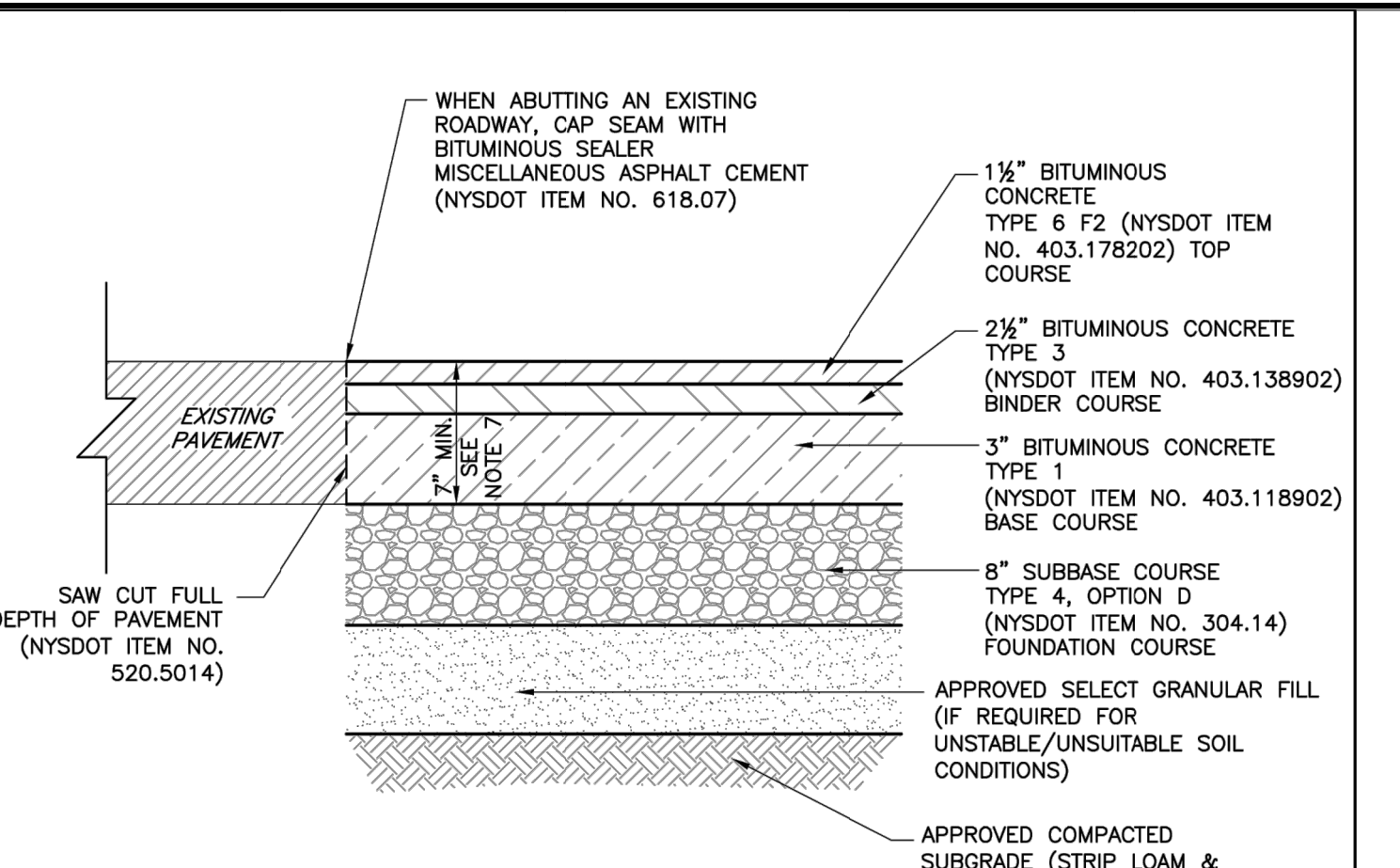
NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE SIDEWALKS SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 608 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISION.
2. CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR REINFORCED CONCRETE DRIVEWAY TYPICAL SECTION

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	PORTLAND CEMENT CONCRETE TAPERED DRIVEWAY APRON (SIDEWALK ABUTTING ROADWAY)	VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARS, PE DRAWN BY: ARS, PE CHECKED BY: ARS, PE VOM PCC Driveway Apron	PROJECT DETAILS VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) VILLAGE OF MAMARONECK, NY 10543 DATE: 03/13/2014 SD-5E



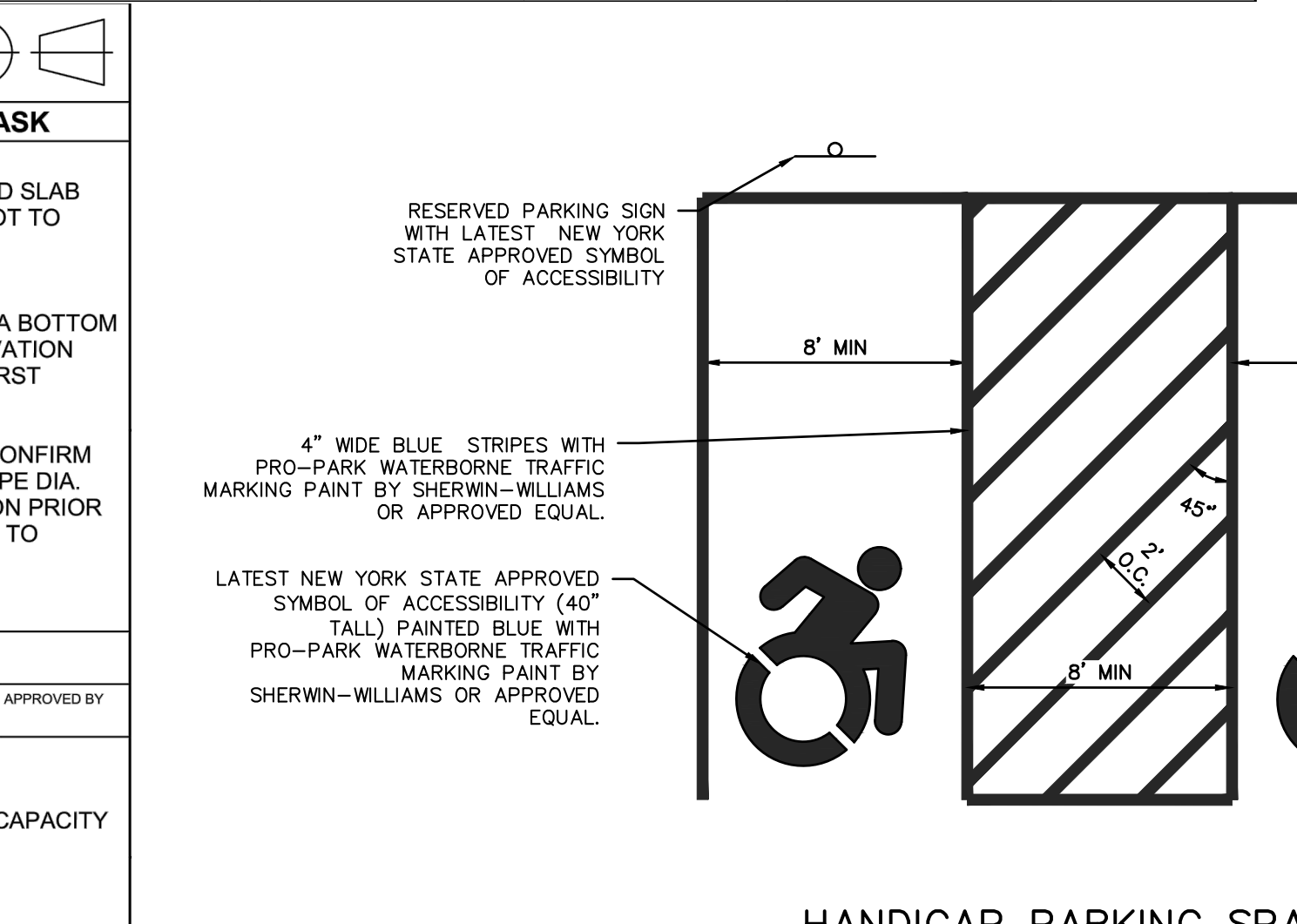
PARTS LIST				
ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	36	900	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	18 (MAX)	450 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	18 (MAX)	450 (MAX)	INLET PIPE (BY OTHERS)



NOTES:

1. UNLESS OTHERWISE NOTED, BITUMINOUS CONCRETE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 403 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2008 WITH LATEST REVISIONS. NOTE, THIS SECTION IS NO LONGER INCLUDED IN THE NYSDOT STANDARD SPECIFICATIONS.
2. UNLESS OTHERWISE NOTED, SUBBASE COURSE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 300 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2008 WITH LATEST REVISIONS.
3. DETAIL DEPICTS COMPACTED PAVEMENT THICKNESS.
4. THIS DETAIL SHALL BE COORDINATED WITH THE VILLAGE STANDARD PIPE TRENCH AND ASPHALT PAVEMENT REPLACEMENT CONSTRUCTION DETAIL AND ALL OTHER PERTINENT VILLAGE STANDARD CONSTRUCTION DETAILS.
5. THIS ASPHALT CONCRETE PAVEMENT SECTION APPLIES ONLY TO LOCAL (I.E. VILLAGE) ROADS. PAVEMENT REPLACEMENT, REHABILITATION, CONSTRUCTION, ETC. FOR COUNTY AND STATE ROADWAYS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
6. IF 403 HOT MIX ASPHALT (HMA) ITEM NUMBERS ARE UNAVAILABLE FROM THE ASPHALT PLANT, NYSDOT SUPERPAVE HMA 70 OR 80 SERIES COMPACTION SHALL BE SUBSTITUTED UPON REVIEW AND APPROVAL BY THE VILLAGE ENGINEER.
7. HOT MIX ASPHALT (HMA) PAVEMENT SHALL BE 7" MIN. THICK, OR MATCH EXISTING HMA PAVEMENT THICKNESS, WHICHEVER IS GREATER. IF EXISTING HMA PAVEMENT IS GREATER THAN 7", THE HMA DIFFERENCE SHALL CONSIST OF HMA BASE COURSE (OR BINDER COURSE FOR SMALL QUANTITIES)
8. THE VILLAGE ENGINEER RESERVES THE RIGHT TO MODIFY (E.G. INCREASE THICKNESS) THE PAVEMENT SECTION DUE TO SITE CONDITIONS (E.G. UNSUITABLE/UNSTABLE SUBGRADE, HIGH GROUNDWATER, ETC.).

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	ASPHALT CONCRETE PAVEMENT (WITHIN RIGHT-OF-WAY)	VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARS, PE DRAWN BY: ARS, PE CHECKED BY: ARS, PE VOM Roadway Pavement Section	PROJECT DETAILS VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) VILLAGE OF MAMARONECK, NY 10543 DATE: 03/13/2014 SD-6A



RESERVED PARKING SIGN WITH LATEST NEW YORK STATE APPROVED SYMBOL OF ACCESSIBILITY

4" WIDE BLUE STRIPES WITH PRO-PARK WATERBORNE TRAFFIC MARKING PAINT BY SHERWIN-WILLIAMS OR APPROVED EQUAL

LATEST NEW YORK STATE APPROVED SYMBOL OF ACCESSIBILITY (40" TALL) PAINTED BLUE WITH PRO-PARK WATERBORNE TRAFFIC MARKING PAINT BY SHERWIN-WILLIAMS OR APPROVED EQUAL

GENERAL ARRANGEMENT	
Hydro International hydro-int.com HYDRO INTERNATIONAL	
DO NOT SCALE DRAWING STEEL FABRICATION TOLERANCES UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN INCHES.	
LINEAR 000 - 012in = ±0.04in 012 - 024in = ±0.06in 024 - 048in = ±0.08in 048 - 120in = ±0.10in 120in >>> = ±0.20in	ANGULAR 000 - 120in = ±1° 120 - 240in = ±0.5° 240in >>> = ±0.25°
WEIGHT: N/A	MATERIAL:
STOCK NUMBER:	
DRAWING NO.: FDHC GA-3	
SHEET SIZE: B	SHEET: 1 OF 1
Rev:	-

PROJECT:
PROPOSED RESIDENTIAL DEVELOPMENT
129-133 PROSPECT AVENUE
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY - NEW YORK

DETAILS
HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road, Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2022

DATE: 06/15/22
Scale: 1" = 10'
Designed By: T.K.
Checked By: M.S.
Sheet No. 4

C-4

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.