

EXISTING INFORMATION SHOWN HEREON TAKEN FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS, DATED MAY 15, 2023 AND SUPPLEMENTED WITH ADDITIONAL UTILITY AND SITE FEATURES OBSERVED IN THE FIELD, AS WELL AS ADDITIONAL OFFSITE TOPOGRAPHIC INFORMATION PROVIDED BY ROCKLAND COUNTY GIS



REVISED FOR TOWN COMMENTS	1/23/24	DSM
Revisions		

PROJECT:
PROPOSED COMMERCIAL BUILDING
39 SOUTH WILLIAM STREET
TOWN OF ORANGETOWN
ROCKLAND COUNTY - NEW YORK

EXISTING CONDITIONS MAP

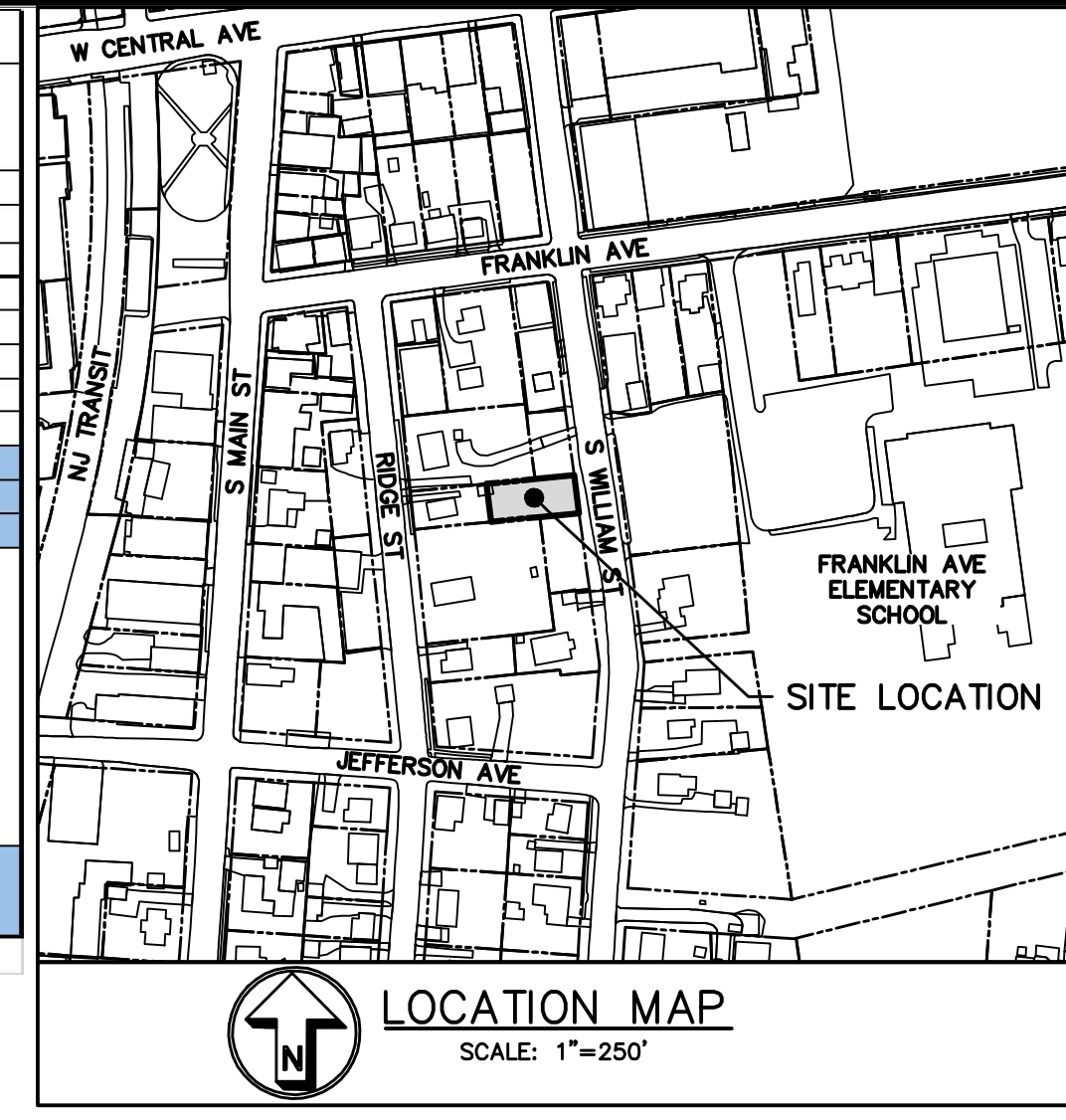
HEC
HUDSON ENGINEERING CONSULTING, P.C.
 45 Knowlwood Road - Suite 201
 Elmford, New York 10523
 T: 914-909-0420
 F: 914-560-2086

Date: 10/9/23 Sheet: 1
 Scale: 1" = 20' 1
 Designed By: D.C.
 Checked By: M.S.
 Sheet No. 9

EX-1

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.

ZONING ANALYSIS TABLE		
SECTIONS: 7,370	DISTRICT:	
BLOCKS: 188	CS Zone - Group CS-FF	
LOTS: 73.1	Required	Provided
REGULATION	2,500	5,652.0
Min. Lot Area (sq ft)	2,500	4,600.0
Max. Floor Area (sq ft)	1.0	0.81
Min. Lot Width (ft.)	25	50.0
Min. Yard Setbacks		
Principal Bldg.		
- Front (ft.)	0 or 45	49.9
- Side (ft.)	0/12	2.0
- Both Sides (ft.)	0/25	4.0
- Rear (ft.)	25	12.0
Height	1 foot 4 inches from prop. line for building greater than 22 feet - Required front yards and maximum building heights are subject to Sec. 5.111, with the designated street line.	
	49'-11" x 1'-4" = 66'-6 3/5"	
Parking Required:	Retail/Sales: 1 Space per 200 s.f. Required: 4996/200 = 25 spaces	4 Spaces
Variance Required:		



- GENERAL NOTES:**
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
 - NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987.
 - 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.
 - ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
 - ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
 - 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.
 - OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO INCLUDE: 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 C02010 1185 UNDER GENERAL AGREEMENTS OF INSURANCE POLICIES SHALL BE SUBMITTED TO HUDSON ENGINEERING & CONSULTING, P.C. FOR APPROVAL PRIOR TO THE SIGNING OF THE CONTRACT.
 - 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.
 - THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 2306-B OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
 - THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48-HOURS IN ADVANCE OF ANY WORK BEING DONE ON OR NEAR ANY OF THE EXISTING SANITARY SEWER MAINS AND/OR THE PROPOSED SANITARY BUILDING CONNECTION.

TEST HOLE DATA:

TEST HOLE #1
DEPTH - 90"
0-12" TOPSOIL
12-18" FILL
18-28" ORGANIC SOIL
28-90" MOD COMPACT SANDY LOAM
GROUNDWATER @ 30"
NO LEDGE ROCK
NO PERC. TEST COMPLETED

PROPERTY NOTES:

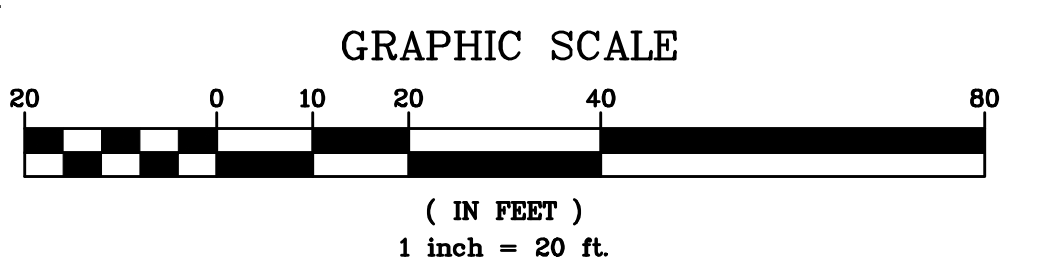
- OWNER: MR. EDWARD O'HARA, 941 MCLANE AVENUE, YONKERS, NY 10704
- PROJECT LOCATION: 39 S. WILLIAM STREET, MUNICIPALITY: ORANGETOWN, 10985, SECTION: 68.20, BLOCK: 1, LOT: 30.2

LEGEND

PROPERTY LINE	---
PROPOSED CONCRETE CURB	▬▬▬
PROPOSED ASPHALT DRIVEWAY	▬▬▬▬▬
PROPOSED CONCRETE WALKWAY	▬▬▬▬▬▬▬
PROPOSED CONTOUR	240
PROPOSED SPOT GRADE	+240.50
PROPOSED WATER SERVICE	WS
PROPOSED SANITARY SEWER SERVICE	SS
TEMPORARY SILT FENCE	-X-X-
TEMPORARY CONSTRUCTION FENCE	⊕
TEMPORARY INLET PROTECTION	⊕
TEMPORARY SOIL STOCKPILE AREA	⊕
STABILIZED CONSTRUCTION ENTRANCE	▬▬▬▬▬
PROPOSED LIMIT OF DISTURBANCE	---

Surveyor: Anthony R. Celentano, P.L.S. - Lic# 50633

EXISTING INFORMATION SHOWN HEREON TAKEN FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS, DATED MAY 15, 2023 AND SUPPLEMENTED WITH ADDITIONAL UTILITY AND SITE FEATURES OBSERVED IN THE FIELD, AS WELL AS ADDITIONAL OFFSITE TOPOGRAPHIC INFORMATION PROVIDED BY ROCKLAND COUNTY GIS



REVISION	DATE	DESCRIPTION
1	1/23/24	REVISED PER TOWN COMMENTS
2	1/27/24	REVISED PER TOWN COMMENTS
3	10/27/23	REVISED PER TOWN COMMENTS
4	9/29/23	REVISED PER TOWN COMMENTS
5	7/29/23	REVISED PER TOWN COMMENTS
6		REVISED PER TOWN COMMENTS

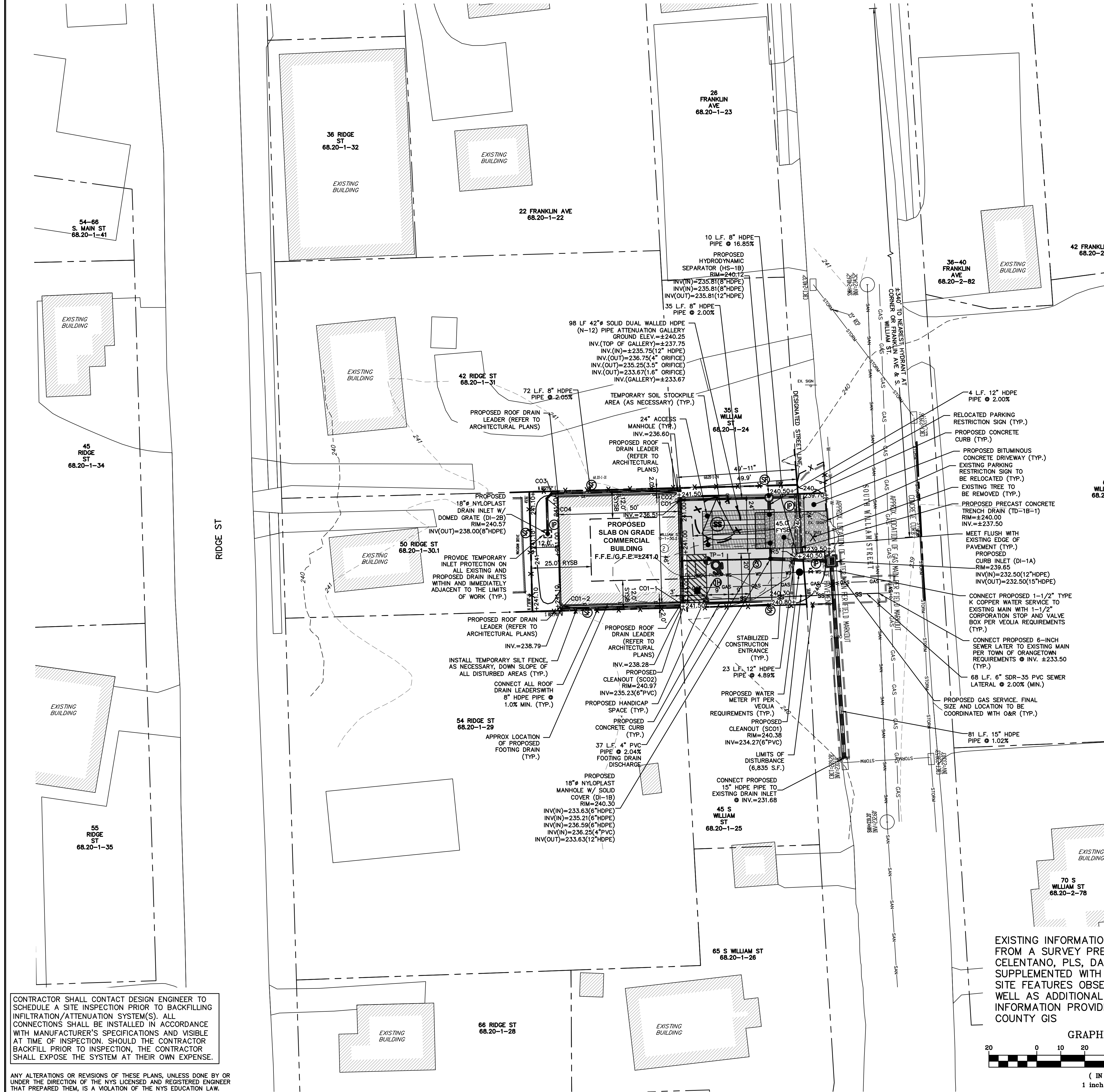
PROJECT: PROPOSED COMMERCIAL BUILDING
39 SOUTH WILLIAM STREET
TOWN OF ORANGETOWN
ROCKLAND COUNTY - NEW YORK

SITE DEVELOPMENT PLAN

HUDSON ENGINEERING CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2024

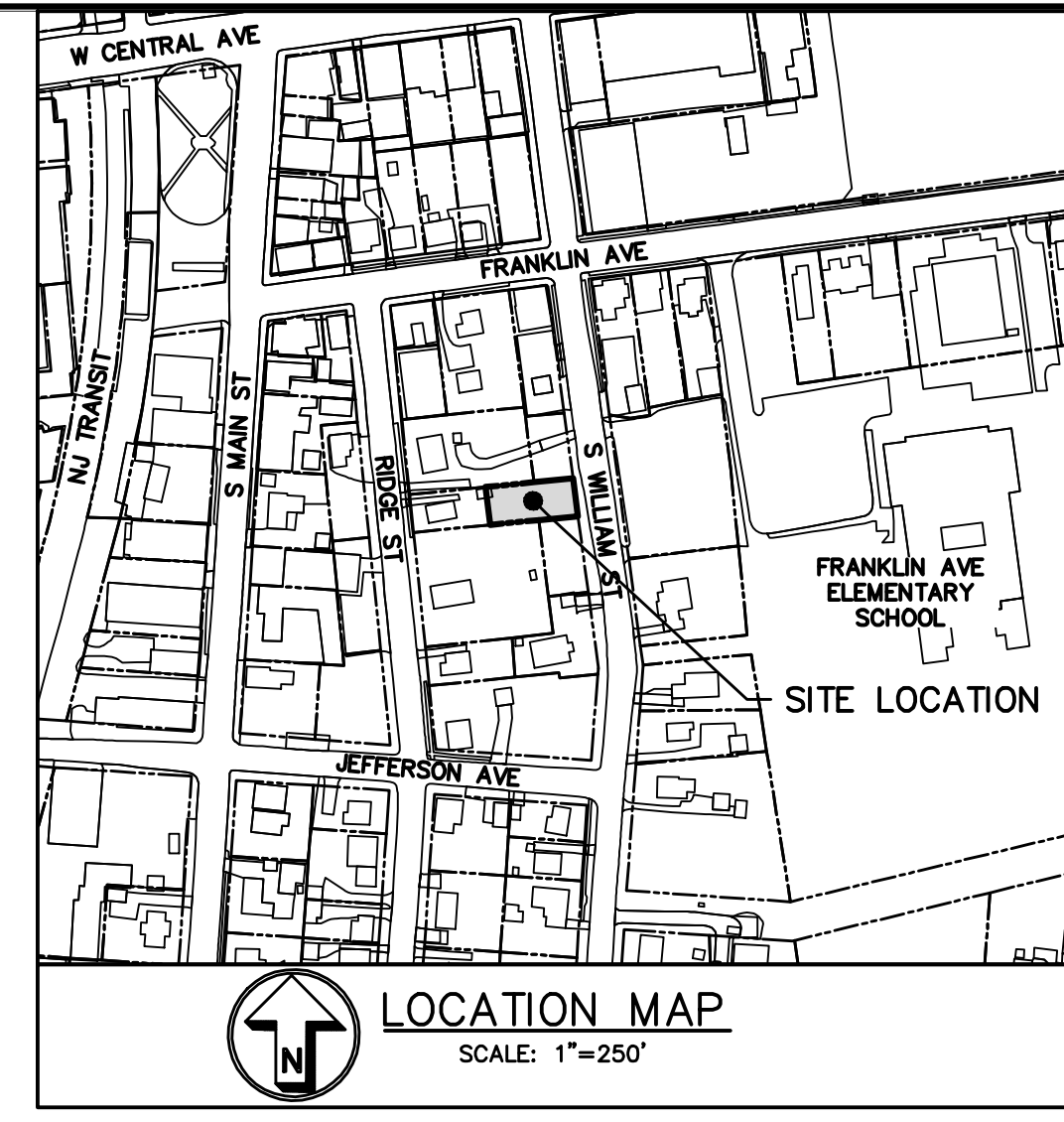
Date: 6/14/23
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 9

C-1



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.

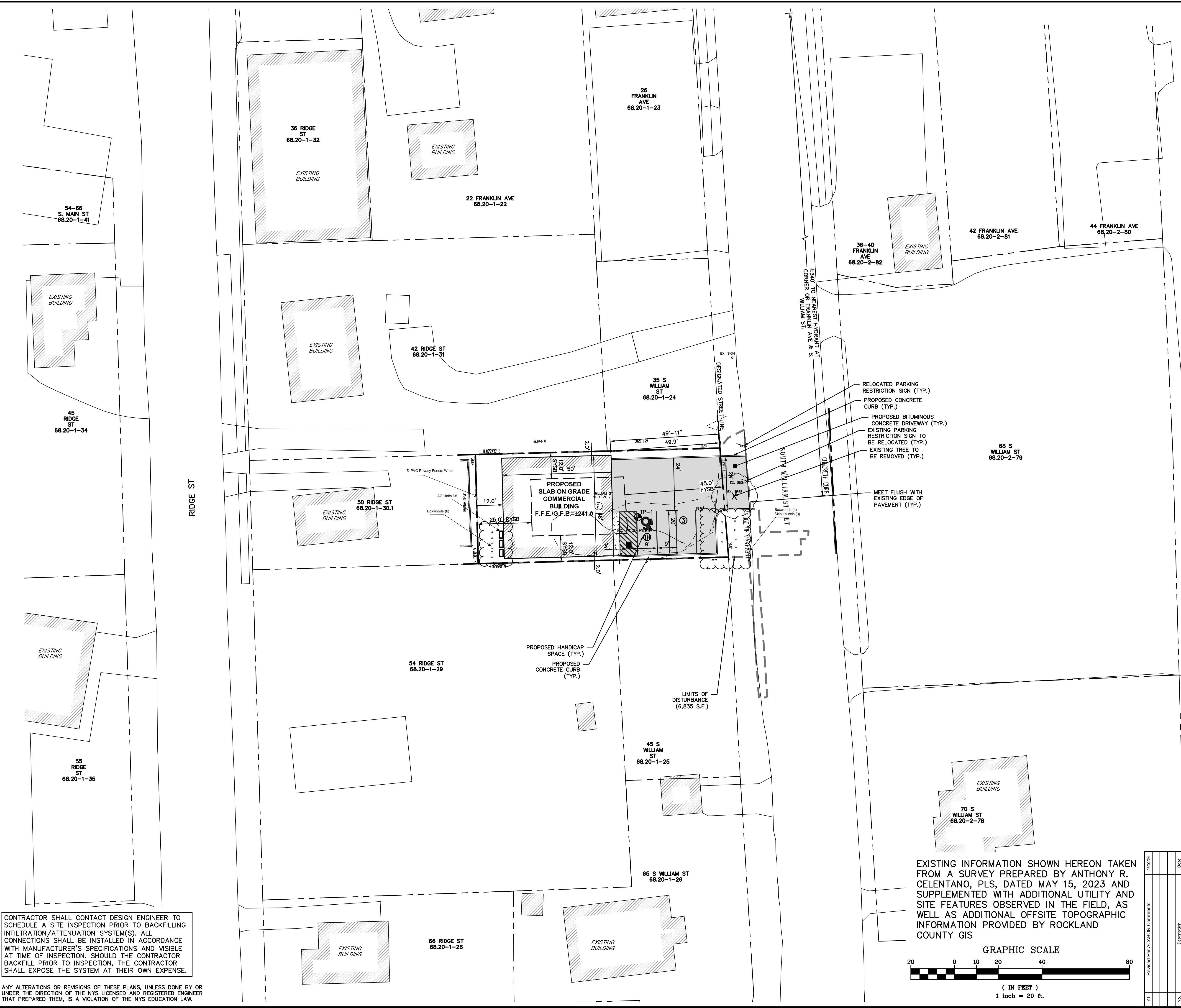


ZONING ANALYSIS TABLE		
SECTIONS: 7.370	DISTRICT:	
BLOCKS: 188	CS Zone - Group CS-FF	
LOTS: 73.1	Required	Provided
REGULATION		
Min. Lot Area (s.f.)	2,500	5,652.0
Max. Floor Area (s.f.)	-	4,600.0
Max. F.A.R.	1.0	0.81
Min. Lot Width (ft.)	25	50.0
Min. Yard Setbacks		
Principal Bldg.		
- Front (ft.)	0 or 45	49.9
- Side (ft.)	0/12	2.0
- Both Sides (ft.)	0/25	4.0
- Rear (ft.)	25	12.0
Height		29.0
	1 foot 4 inches from prop. line for building greater than 22 feet - Required front yards and maximum building heights are subject to Sec. 5.111, with the designated street line.	
	49'-11" x 1'-4" = 66'-6 3/5"	
Parking Required:	Retail/Sales: 1 Space per 200 s.f. Required: 4996/200 = 25 spaces	4 Spaces
Variance Required:		

- PROPERTY NOTES:**
- OWNER: MR. EDWARD O'HARA, 941 MCLEAN AVENUE, YONKERS, NY 10704
 - PROJECT LOCATION: 39 S. WILLIAM STREET
MUNICIPALITY: ORANGETOWN, 10965
SECTION: 68.20 BLOCK: 1 LOT: 30.2

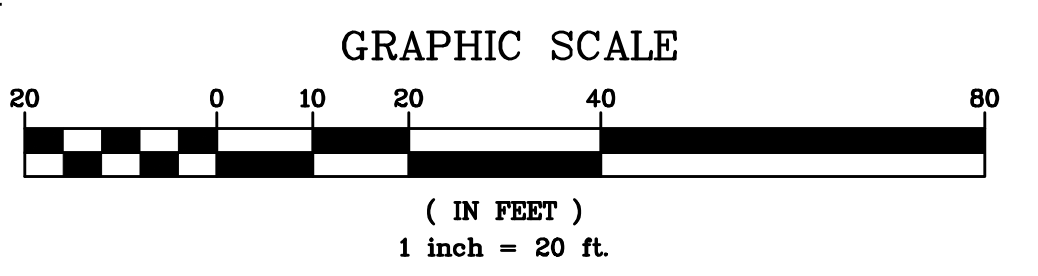
LEGEND

PROPERTY LINE	---
PROPOSED CONCRETE CURB	—
PROPOSED ASPHALT DRIVEWAY	▒
PROPOSED CONCRETE WALKWAY	▒
PROPOSED LIMIT OF DISTURBANCE	---



- RELOCATED PARKING RESTRICTION SIGN (TYP.)
- PROPOSED CONCRETE CURB (TYP.)
- PROPOSED BITUMINOUS CONCRETE DRIVEWAY (TYP.)
- EXISTING PARKING RESTRICTION SIGN TO BE RELOCATED (TYP.)
- EXISTING TREE TO BE REMOVED (TYP.)
- MEET FLUSH WITH EXISTING EDGE OF PAVEMENT (TYP.)

EXISTING INFORMATION SHOWN HEREON TAKEN FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS, DATED MAY 15, 2023 AND SUPPLEMENTED WITH ADDITIONAL UTILITY AND SITE FEATURES OBSERVED IN THE FIELD, AS WELL AS ADDITIONAL OFFSITE TOPOGRAPHIC INFORMATION PROVIDED BY ROCKLAND COUNTY GIS



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.

PROJECT: PROPOSED COMMERCIAL BUILDING 39 SOUTH WILLIAM STREET TOWN OF ORANGETOWN ROCKLAND COUNTY - NEW YORK	
LAYOUT PLAN	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE	
C-2	



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. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
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 NOTICE 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. SO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER CG2010 1185 UNDER CL. 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.
15. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
16. THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48-HOURS IN ADVANCE OF ANY WORK BEING DONE ON OR NEAR ANY OF THE EXISTING SANITARY SEWER MAINS AND/OR THE PROPOSED SANITARY BUILDING CONNECTION.

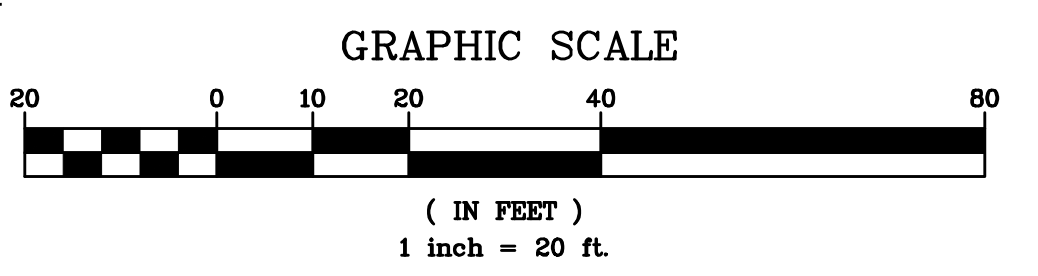
LEGEND

- PROPERTY LINE ———
- PROPOSED CONCRETE CURB ———
- PROPOSED ASPHALT DRIVEWAY [Hatched Box]
- PROPOSED CONCRETE WALKWAY [Dotted Box]
- PROPOSED WATER SERVICE — WS —
- PROPOSED SANITARY SEWER SERVICE — SS —
- PROPOSED LIMIT OF DISTURBANCE - - - - -

TEST HOLE DATA:

- TEST HOLE #1
- DEPTH — 90"
- 0-12" TOPSOIL
- 12-16" FILL
- 16-28" ORGANIC SOIL
- 28-90" MOD COMPACT SANDY LOAM
- GROUNDWATER @ 30"
- NO LEDGE ROCK
- NO PERC. TEST COMPLETED

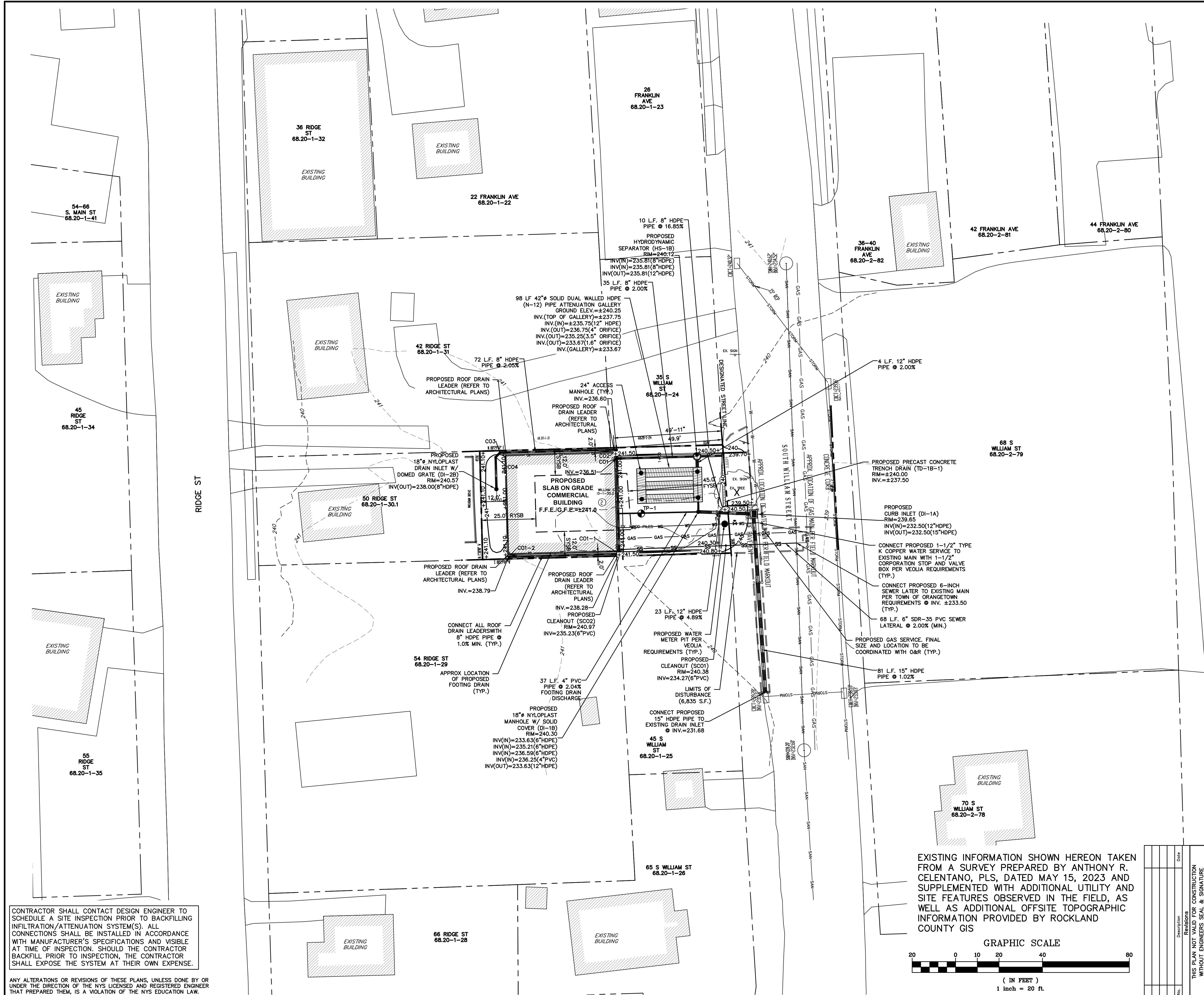
EXISTING INFORMATION SHOWN HEREON TAKEN FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS, DATED MAY 15, 2023 AND SUPPLEMENTED WITH ADDITIONAL UTILITY AND SITE FEATURES OBSERVED IN THE FIELD, AS WELL AS ADDITIONAL OFFSITE TOPOGRAPHIC INFORMATION PROVIDED BY ROCKLAND COUNTY GIS

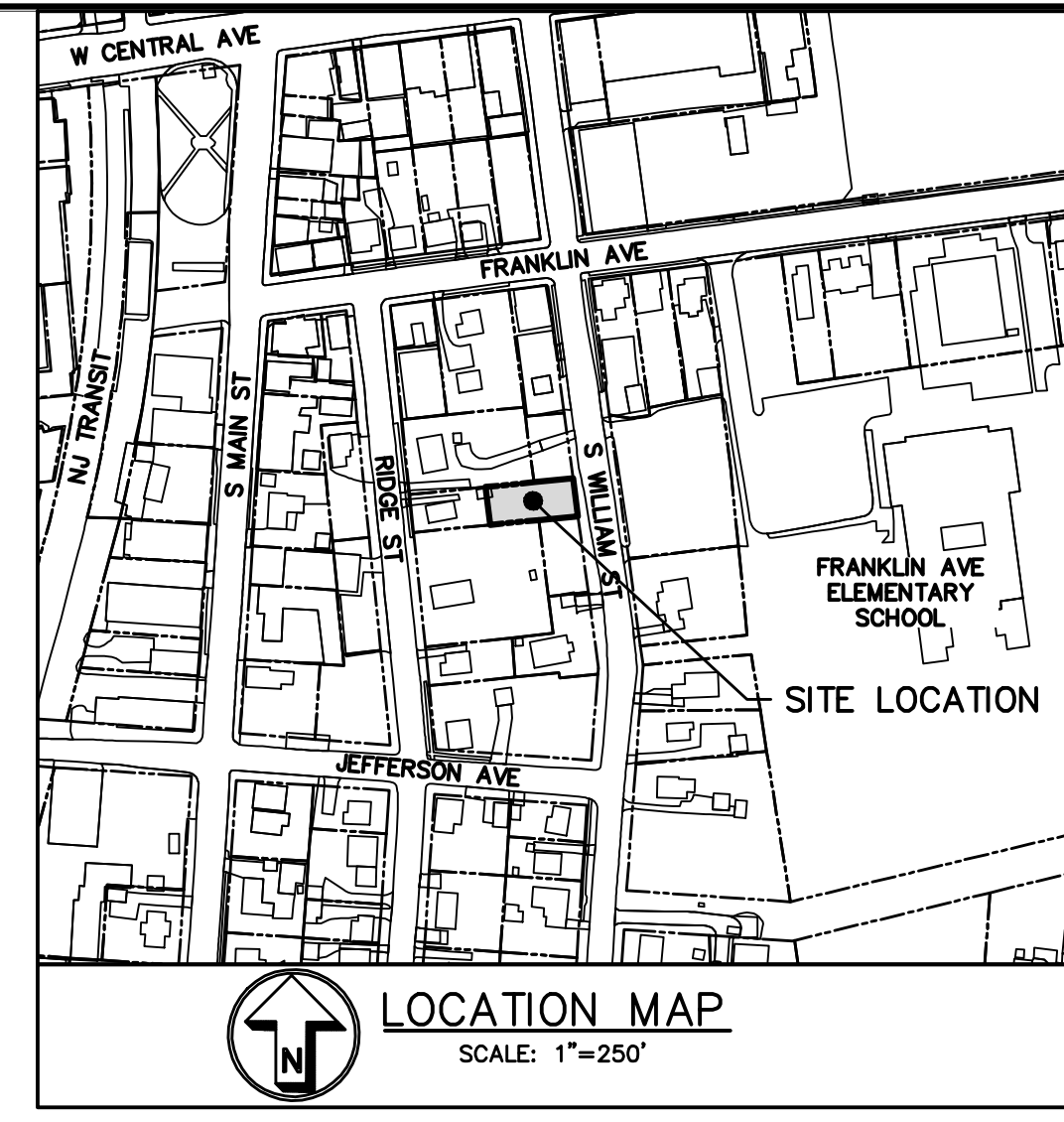


CONTRACTOR SHALL CONTACT DESIGN ENGINEER TO SCHEDULE A SITE INSPECTION PRIOR TO BACKFILLING INFILTRATION/ATTENUATION SYSTEM(S). ALL CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND VISIBLE AT TIME OF INSPECTION. SHOULD THE CONTRACTOR BACKFILL PRIOR TO INSPECTION, THE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

PROJECT: PROPOSED COMMERCIAL BUILDING 39 SOUTH WILLIAM STREET TOWN OF ORANGETOWN ROCKLAND COUNTY - NEW YORK		
STORMWATER MANAGEMENT PLAN		
		Date: 1/23/24 Sheet: 4 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 9
T: 914-909-0420 F: 914-560-2086 © 2024		C-3





LEGEND

- PROPERTY LINE ———
- PROPOSED CONCRETE CURB ———
- PROPOSED CONTOUR ——— 240 ———
- PROPOSED SPOT GRADE +240.50
- PROPOSED WATER SERVICE — WS —
- PROPOSED SANITARY SEWER SERVICE — SS —
- TEMPORARY SILT FENCE — X — X — (SF)
- TEMPORARY CONSTRUCTION FENCE ——— (CF)
- TEMPORARY INLET PROTECTION (IP)
- TEMPORARY SOIL STOCKPILE AREA (SS)
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE ———

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.

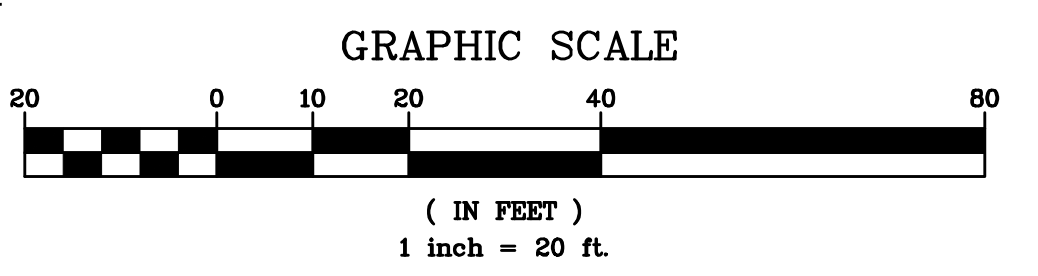
INSPECTION BY MUNICIPALITY — FINAL GRADING
REMOVE UNNEEDED SUBGRADE FROM SITE.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

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.

EXISTING INFORMATION SHOWN HEREON TAKEN FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS, DATED MAY 15, 2023 AND SUPPLEMENTED WITH ADDITIONAL UTILITY AND SITE FEATURES OBSERVED IN THE FIELD, AS WELL AS ADDITIONAL OFFSITE TOPOGRAPHIC INFORMATION PROVIDED BY ROCKLAND COUNTY GIS



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.

No.	Description	Date

PROJECT:
**PROPOSED COMMERCIAL BUILDING
39 SOUTH WILLIAM STREET
TOWN OF ORANGETOWN
ROCKLAND COUNTY – NEW YORK**

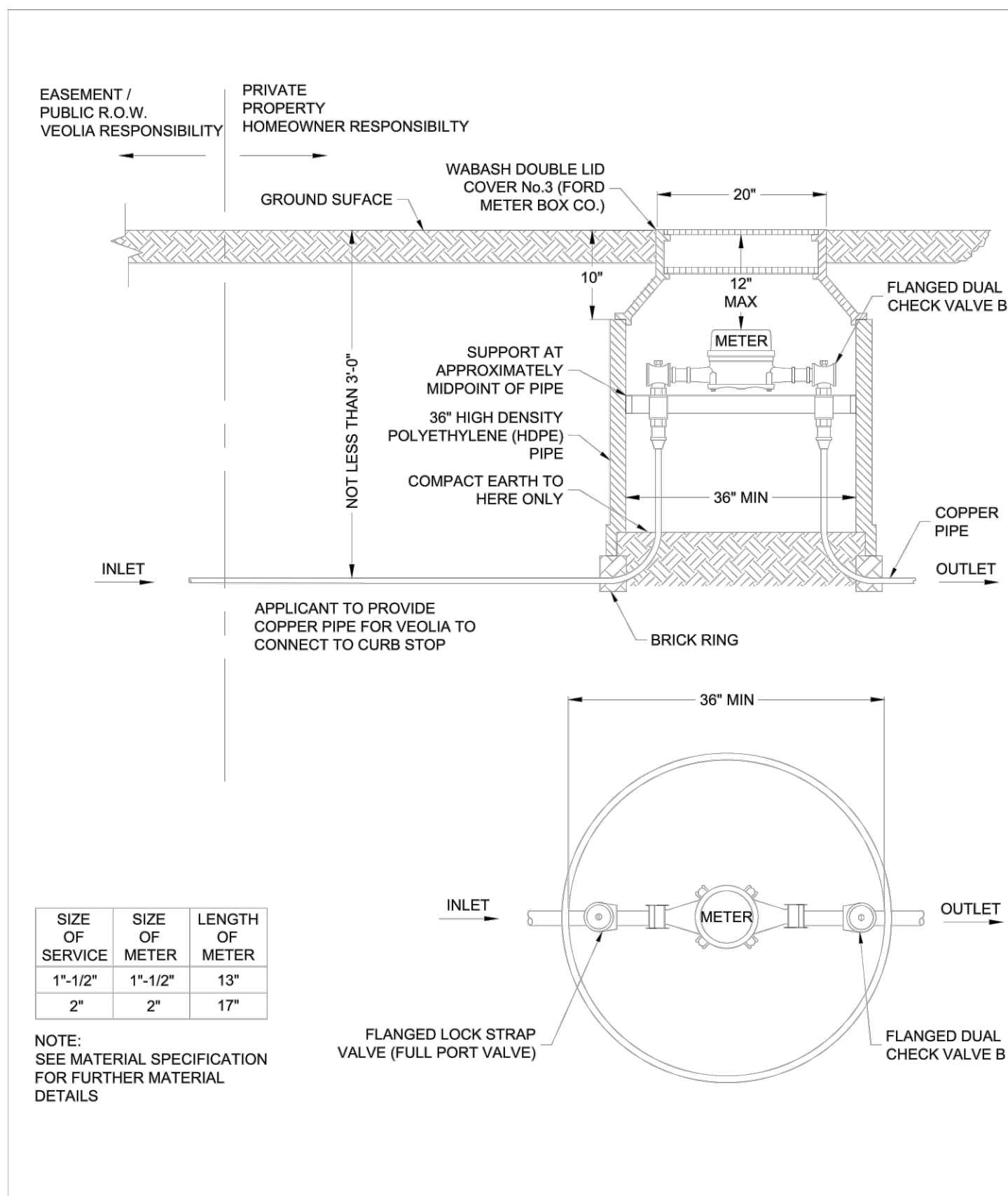
EROSION & SEDIMENT CONTROL PLAN

HUDSON ENGINEERING CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2024



Date: 1/23/24 Sheet: 5
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 9

C-4



SIZE OF SERVICE	SIZE OF METER	LENGTH OF METER
1-1/2"	1-1/2"	13"
2"	2"	17"

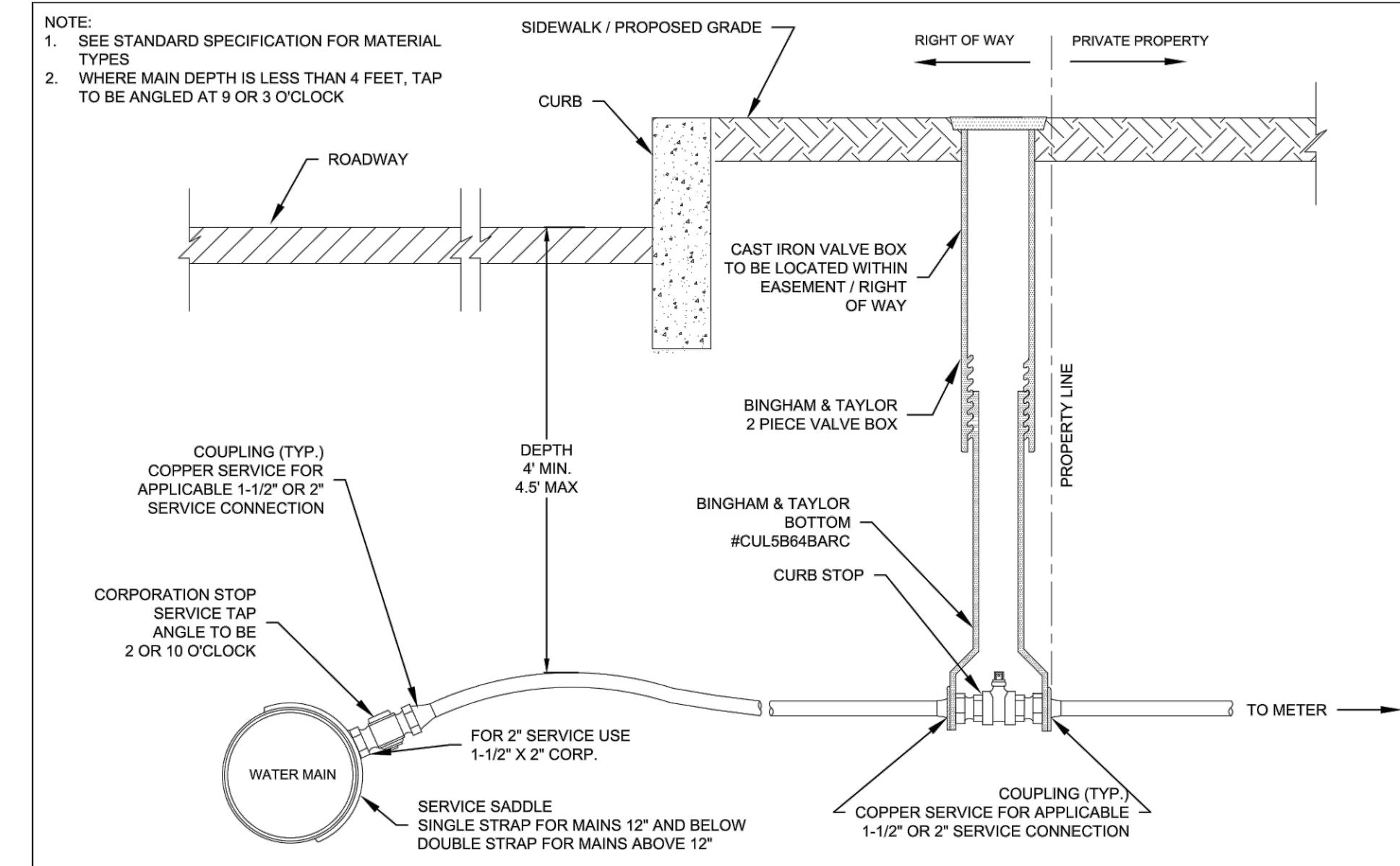
NOTE: SEE MATERIAL SPECIFICATION FOR FURTHER MATERIAL DETAILS

VEOLIA
VEOLIA WATER NEW YORK
162 OLD HILL ROAD,
WEST NYACK, NY 10994
(845) 620-3334

1-1/2" TO 2" DOMESTIC SERVICE - METER PIT
COUNTY OF WESTCHESTER AND PUTNAM ONLY

DRAFTED BY: MS
APPROVED BY: WYNY DIV. NB
SCALE: NTS

DWG 5.02A
DATE: 11/1/2022



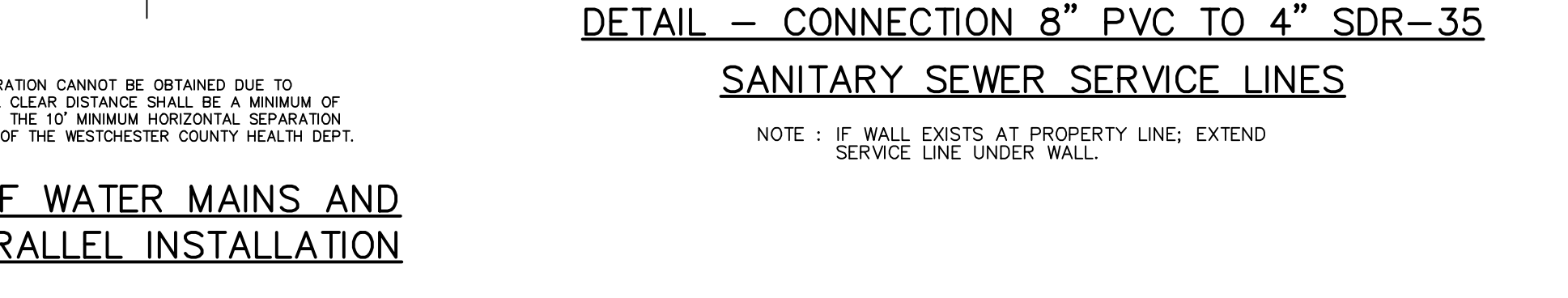
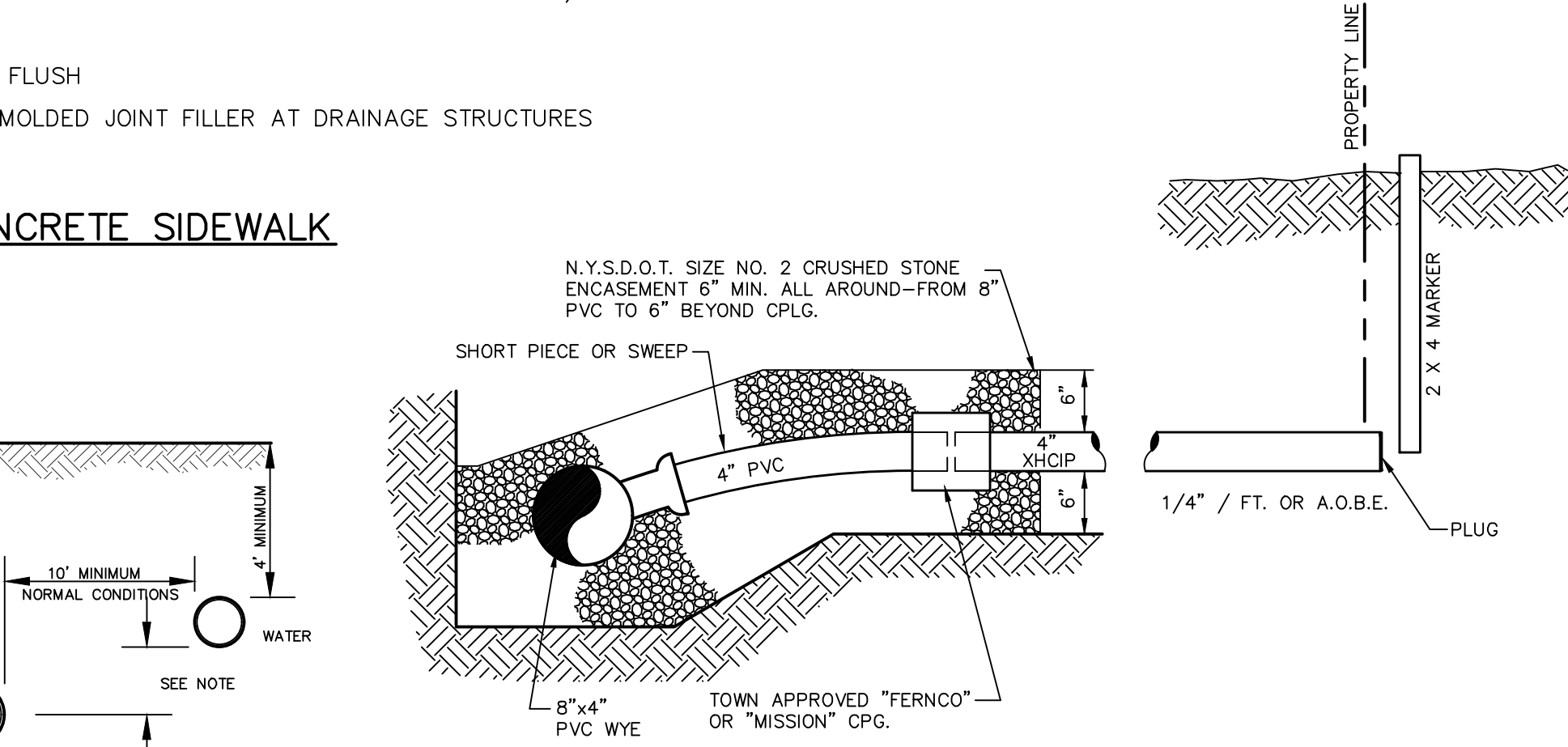
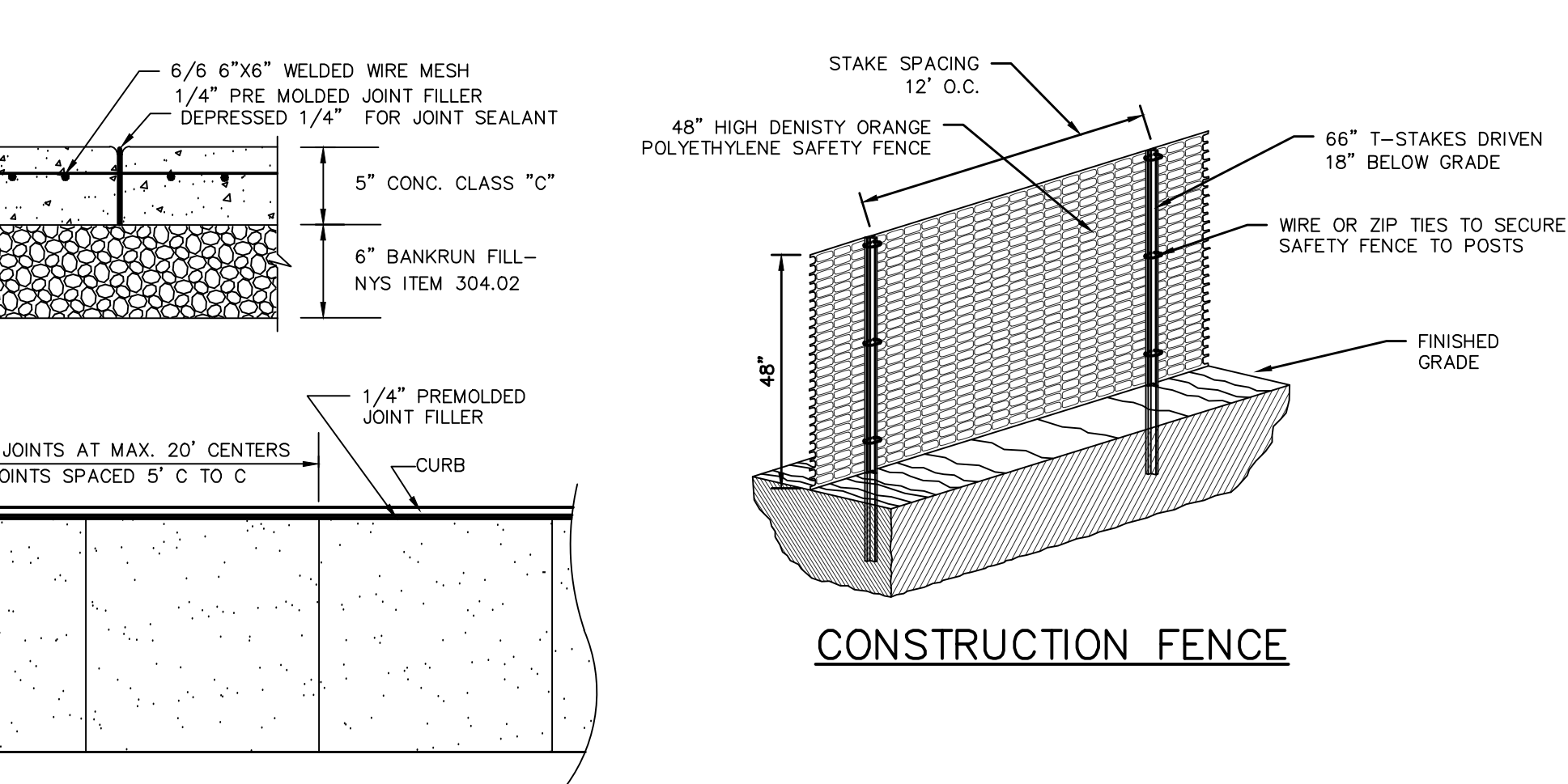
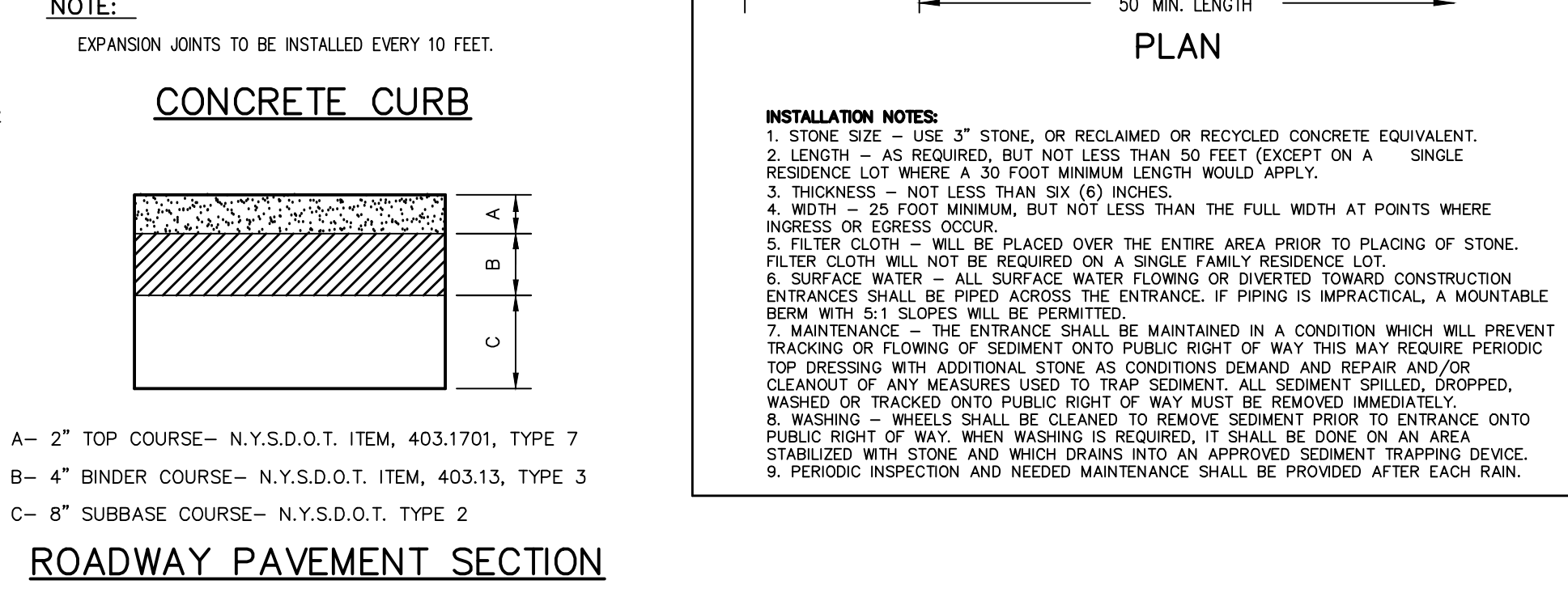
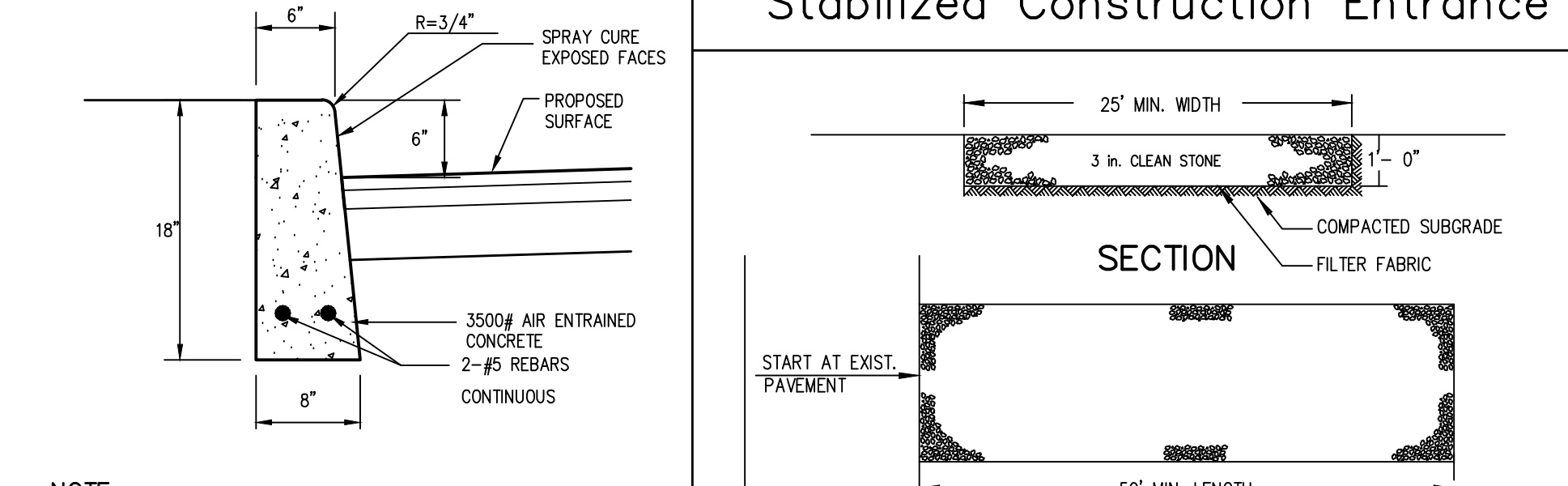
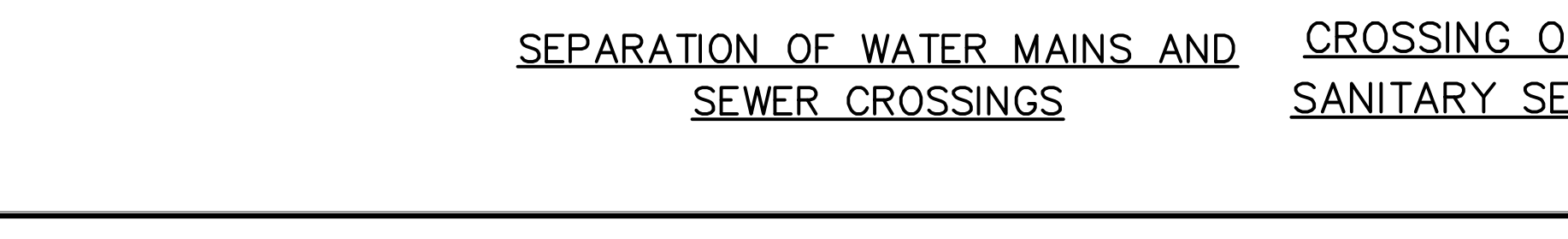
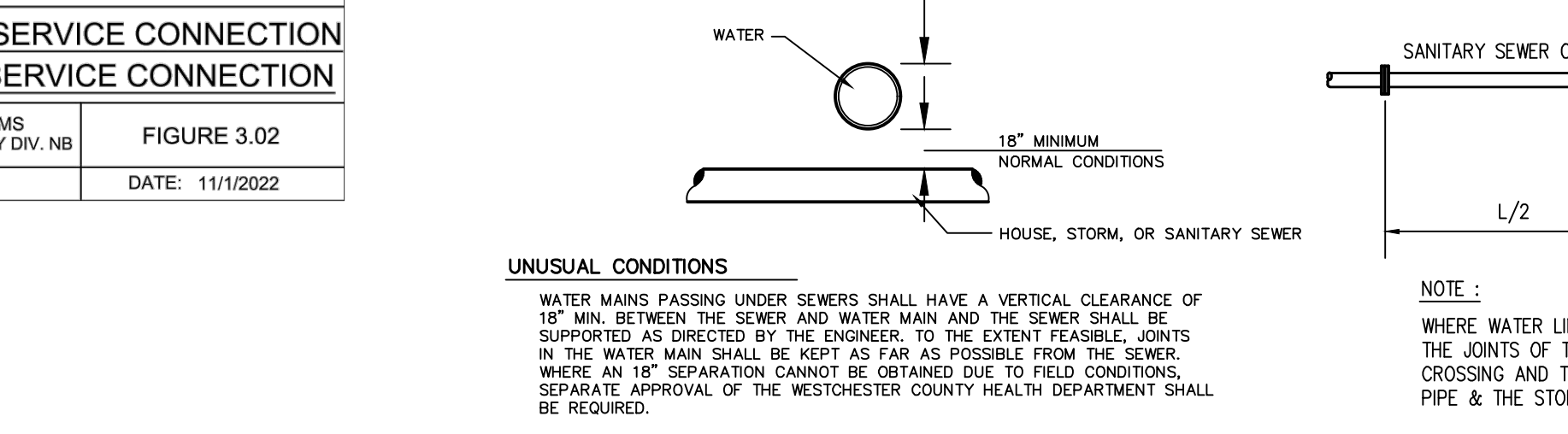
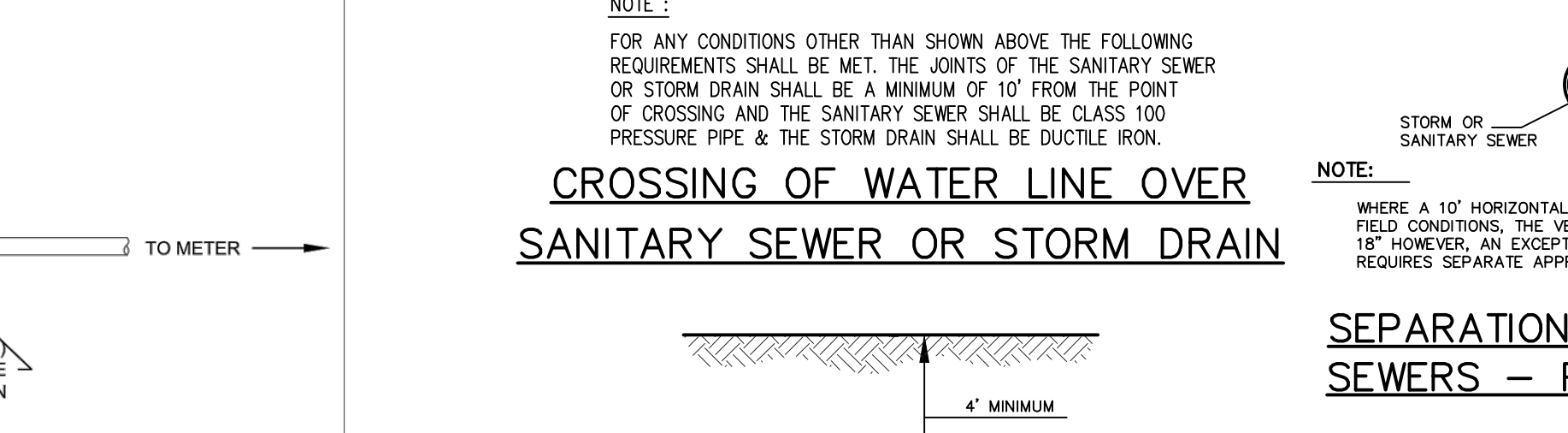
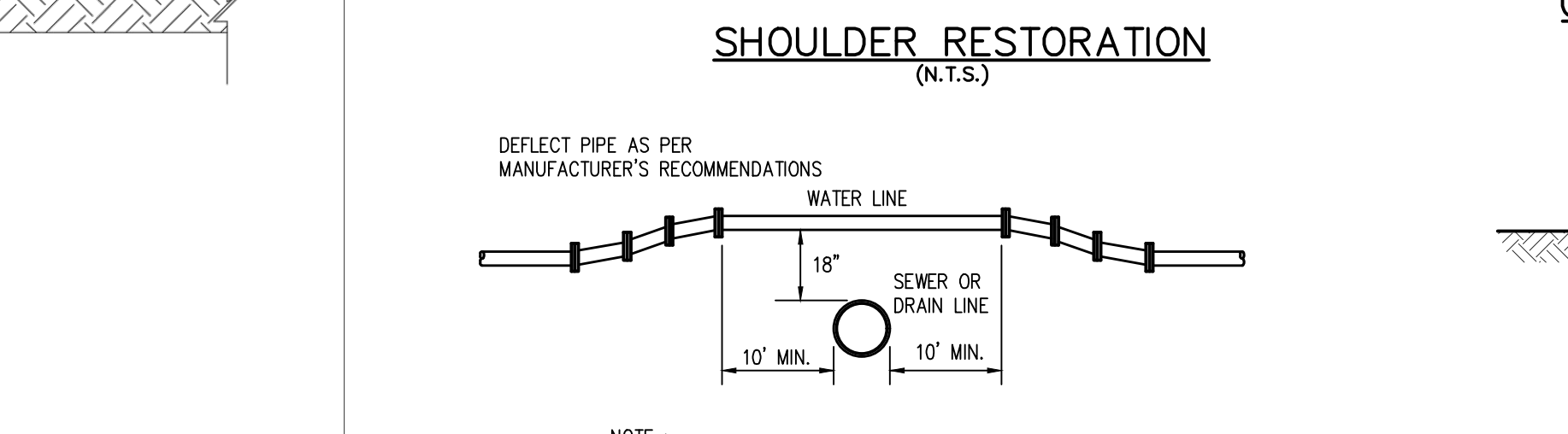
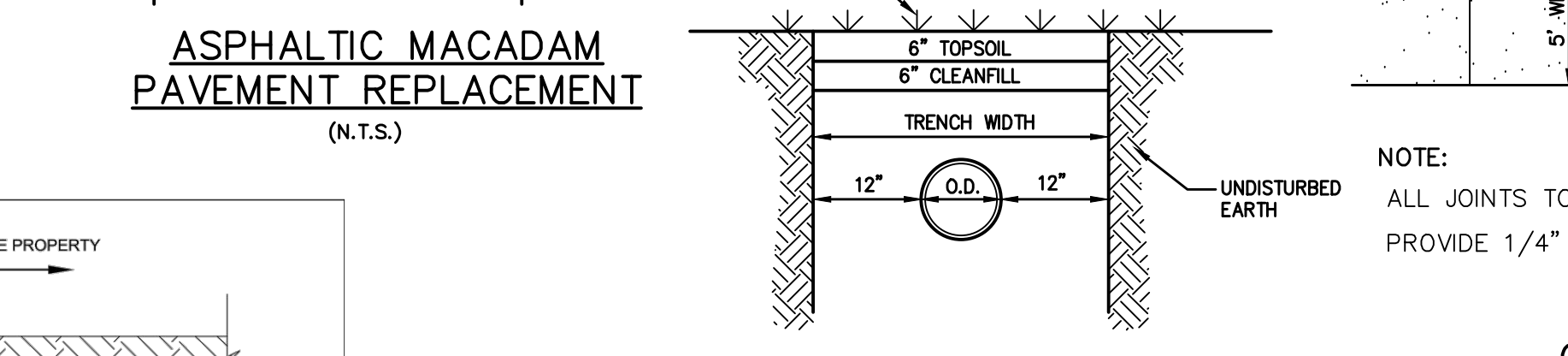
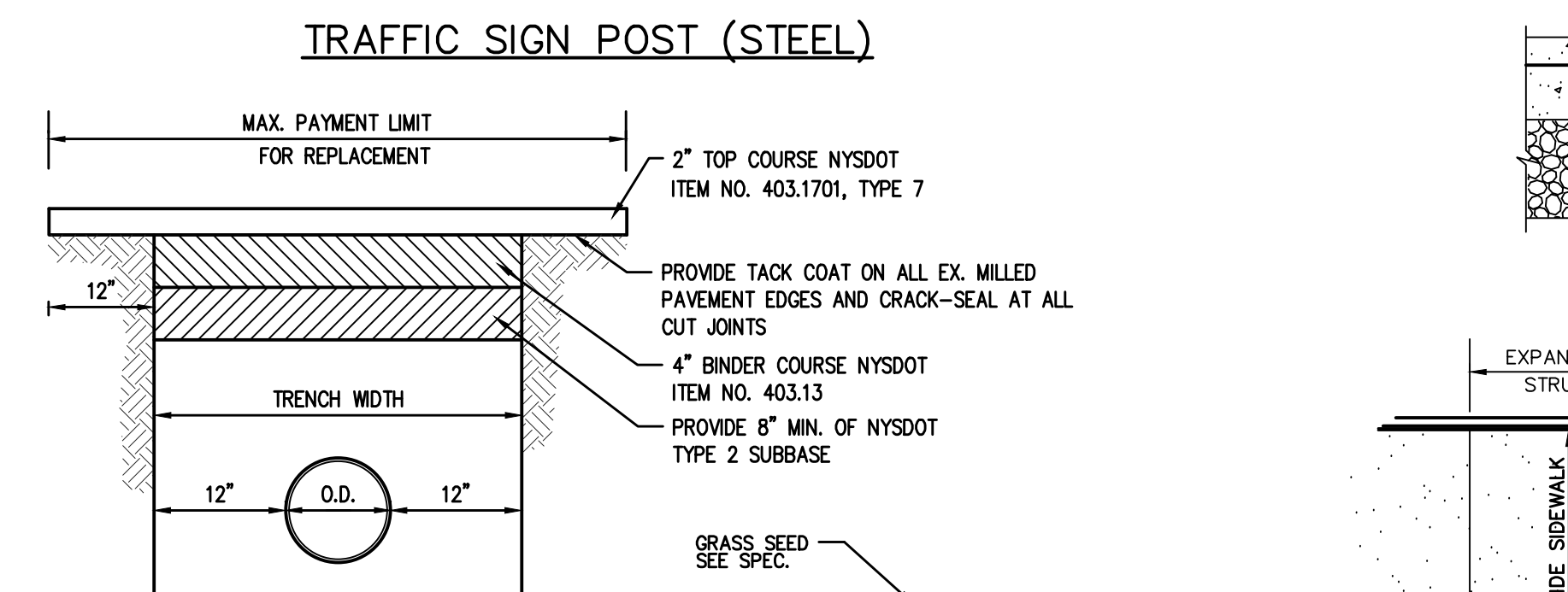
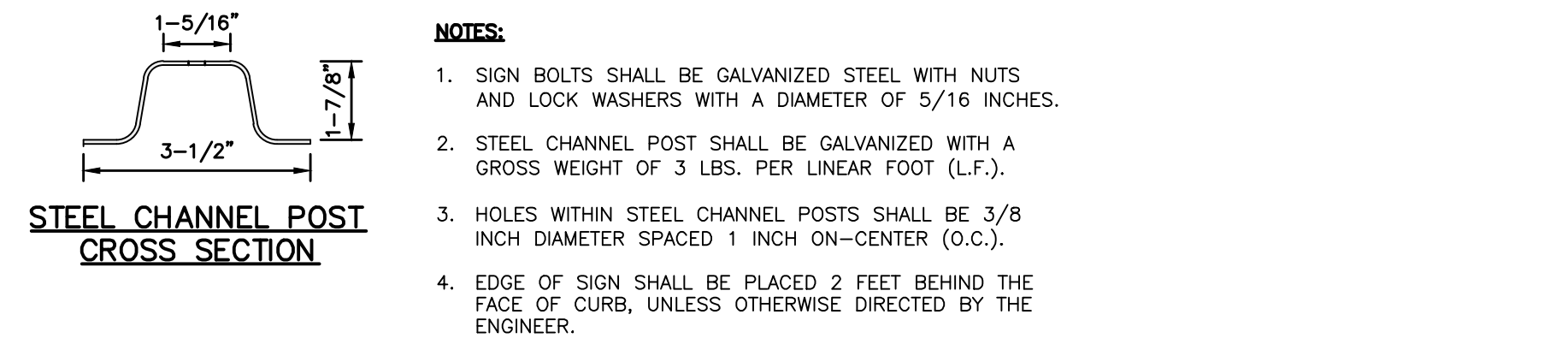
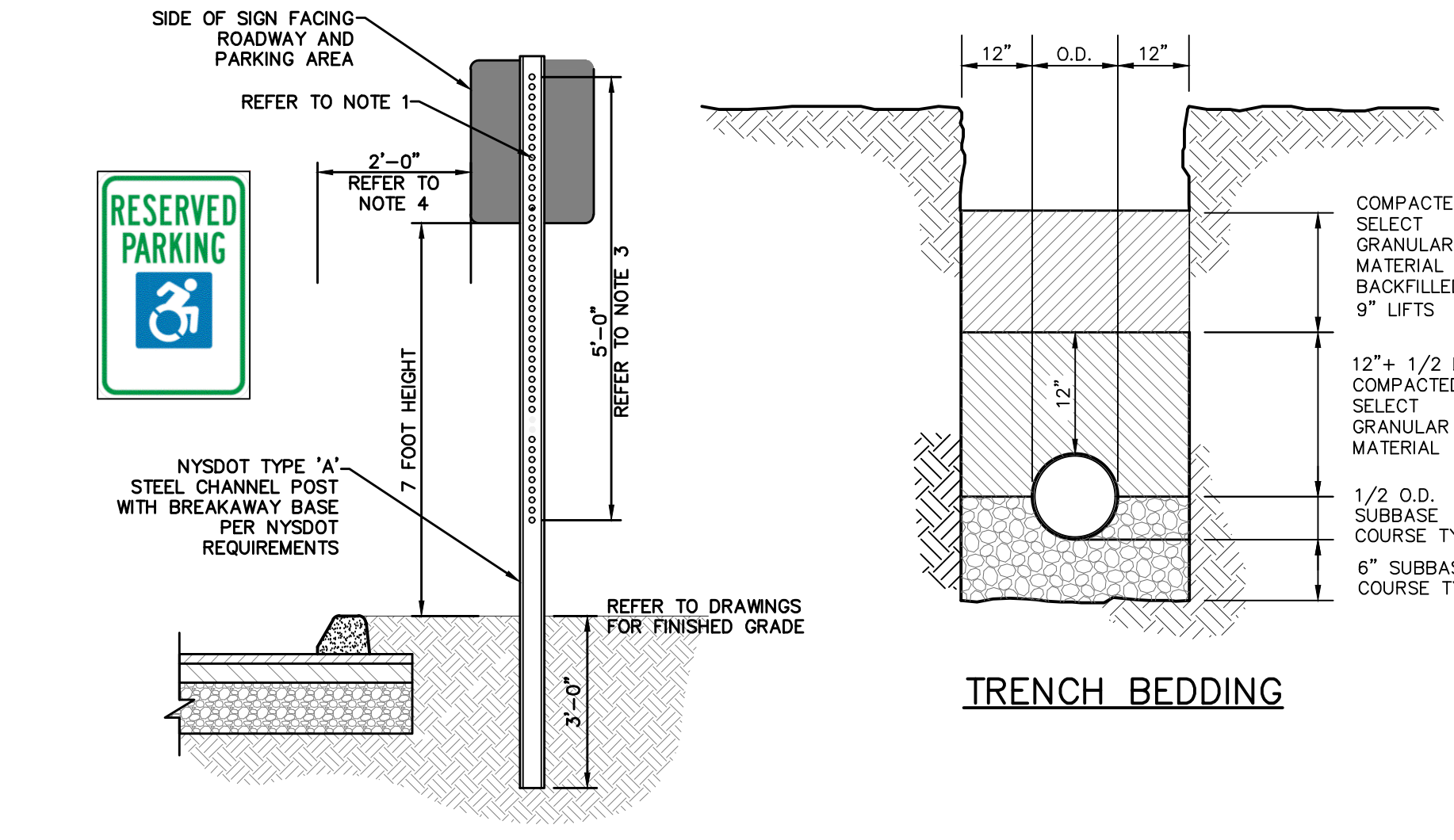
VEOLIA
VEOLIA WATER NEW YORK
162 OLD HILL ROAD,
WEST NYACK, NY 10994
(845) 620-3334

SPECIFICATION DETAILS
INSTALLATION OF WATER SYSTEMS APPURTENANCES

DOMESTIC SERVICE CONNECTION
1-1/2" & 2" SERVICE CONNECTION

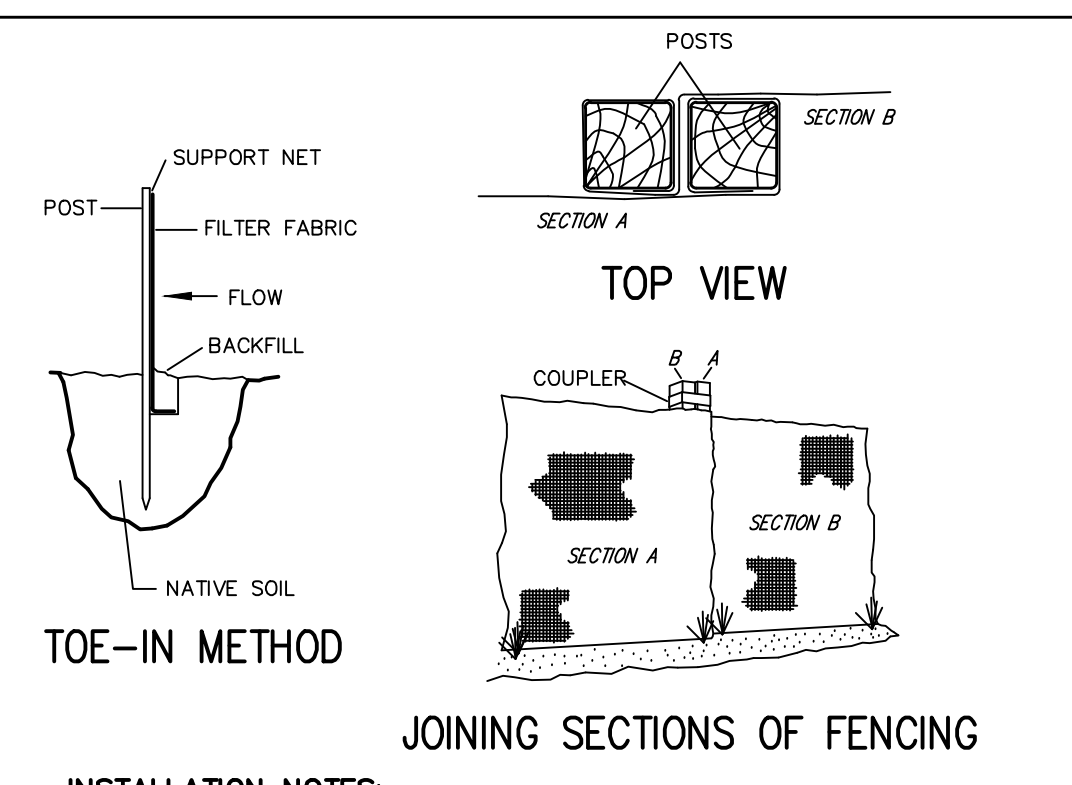
DRAFTED BY: MS
APPROVED BY: WYNY DIV. NB
SCALE: NTS

FIGURE 3.02
DATE: 11/1/2022



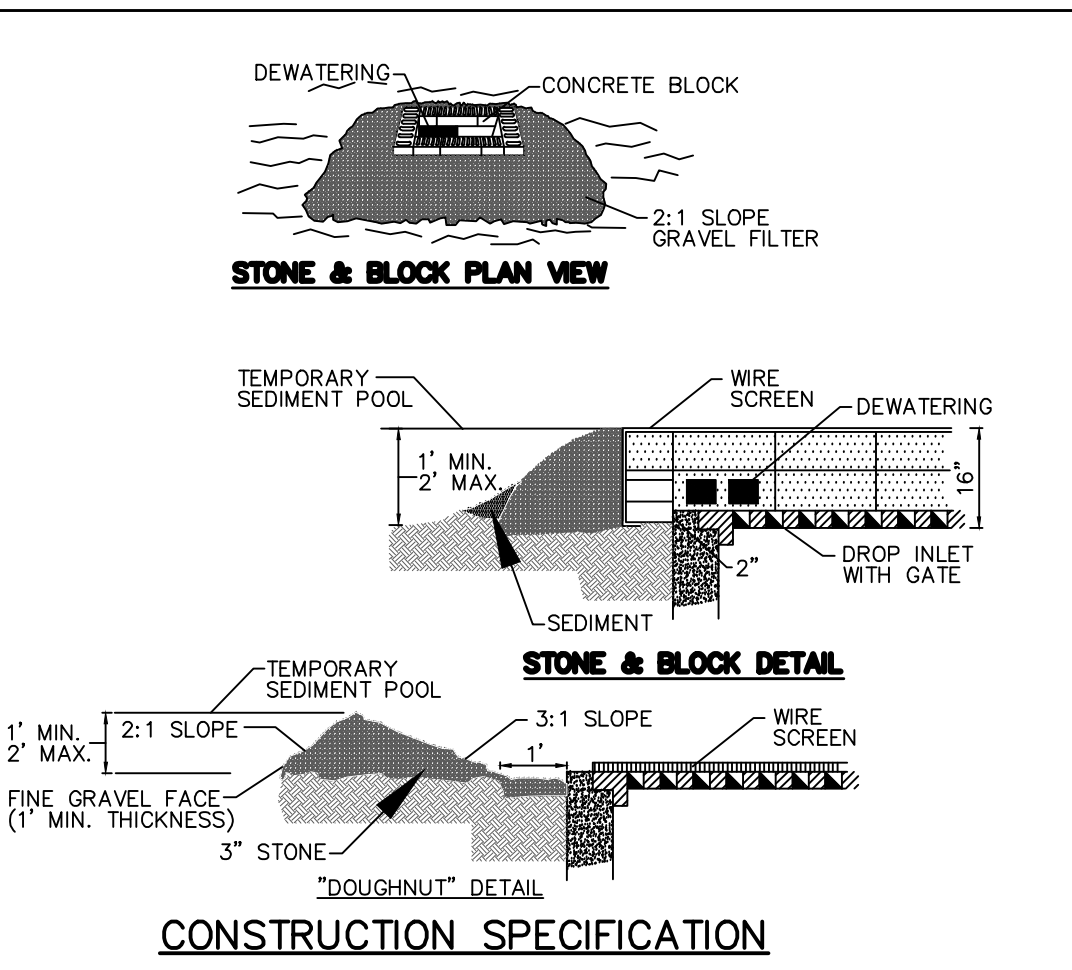
Stabilized Construction Entrance

Silt Fence



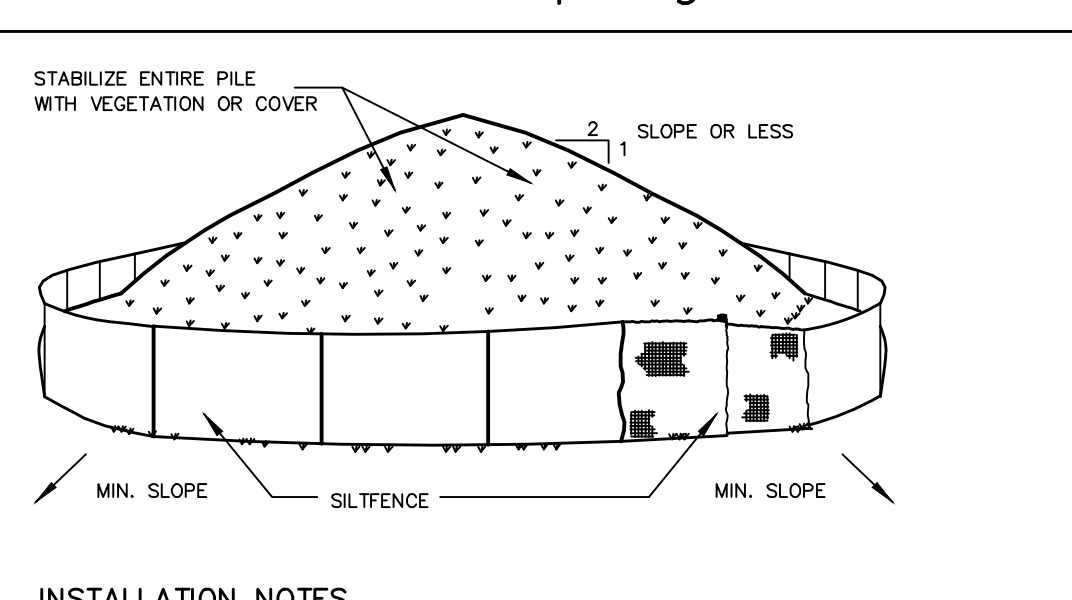
- INSTALLATION NOTES:**
- EXCAVATE A 4 INCH * 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
 - UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
 - DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
 - 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.
 - JOIN SECTIONS AS SHOWN ABOVE.

Stone & Block Drop Inlet Protection



- CONSTRUCTION SPECIFICATION**
- 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.
 - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 - USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF BLOCK ON A 2:1 SLOPE OR FLATTER.
 - FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS. MAXIMUM DRAINAGE AREA 1 ACRE.

Soil Stockpiling



- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - 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.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 - STOCKPILES REMAINING IN PLACE FOR MORE THAN A WEEK SHOULD BE SEEDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.
 - SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

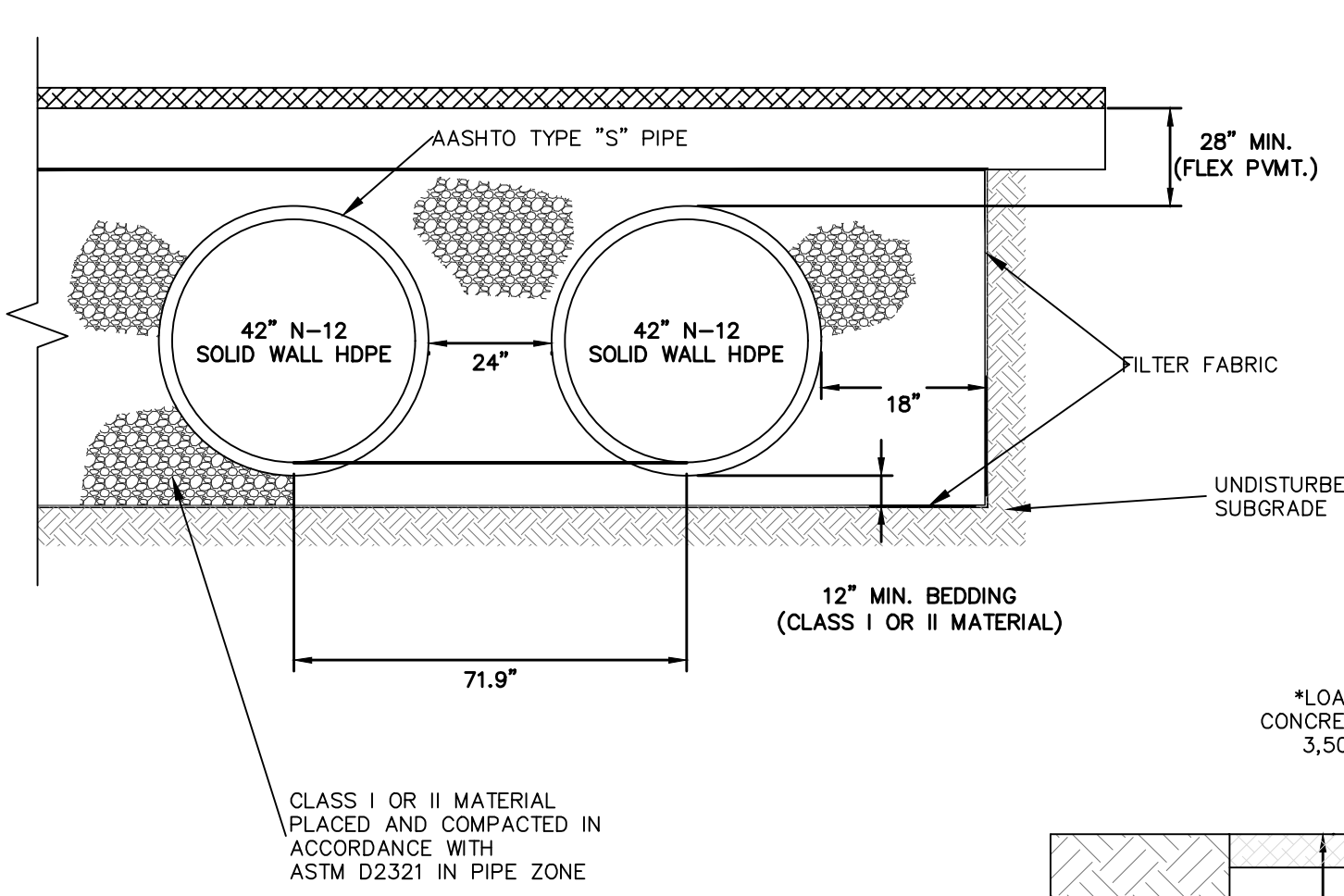
PROJECT: PROPOSED COMMERCIAL BUILDING
39 SOUTH WILLIAM STREET
TOWN OF ORANGETOWN
ROCKLAND COUNTY - NEW YORK

DATE: 6/14/23
SCALE: N.T.S.
DESIGNED BY: D.C.
CHECKED BY: M.S.
SHEET NO. 9

HEC
HUDSON ENGINEERING CONSULTING, P.C.
45 KNOWLEDGE ROAD - SUITE 201
ELMSFORD, NEW YORK 10523
T: 914-909-0420
F: 914-560-2086
© 2024

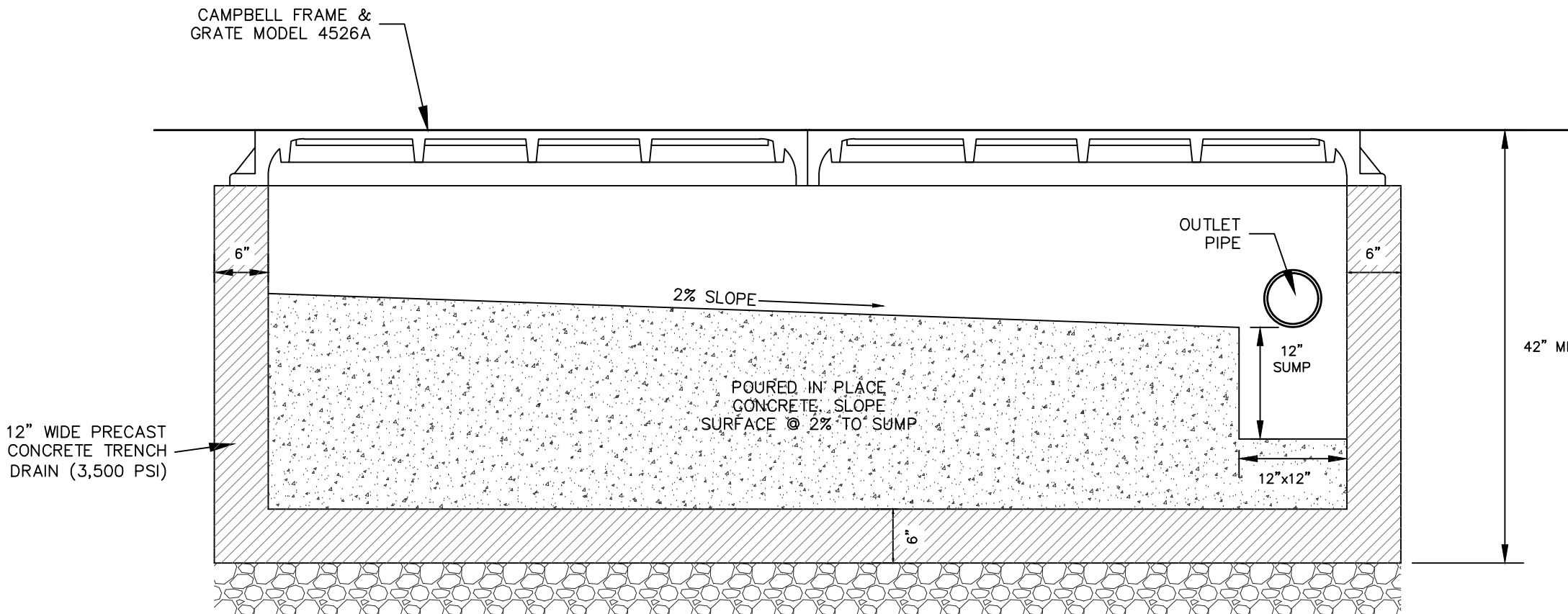
STATE OF NEW YORK
MICHAEL J. STEIN
LICENSED PROFESSIONAL ENGINEER
No. 60851

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.



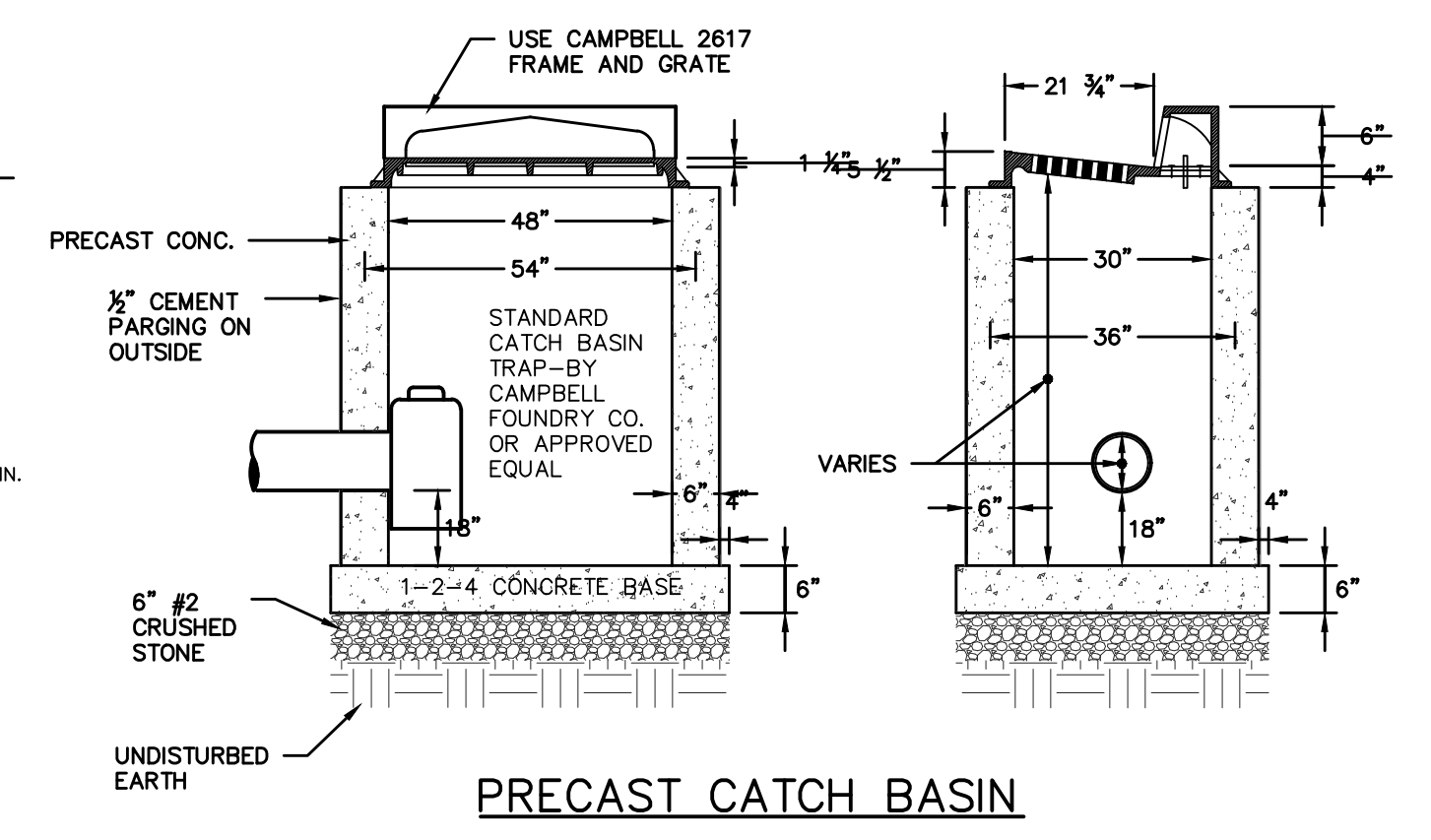
ATTENUATION GALLERY SECTION

- NOTES:**
- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - THE ATTENUATION/EXFILTRATION GALLERY SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES. MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
 - FILTER FABRIC: A GEOTEXTILE FABRIC SHALL BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL 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 MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 12" MINIMUM.
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER OVER ALL ATTENUATION/EXFILTRATION GALLERIES IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 36" DIAMETER PIPE AND 24" OF COVER FOR 42" - 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
 - ALL PIPE STUBS, ORIFICE PLATES, FITTINGS, BENDS, TEES, ETC. SHALL BE MANUFACTURED AT THE FACTORY.



CONCRETE TRENCH DRAIN

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

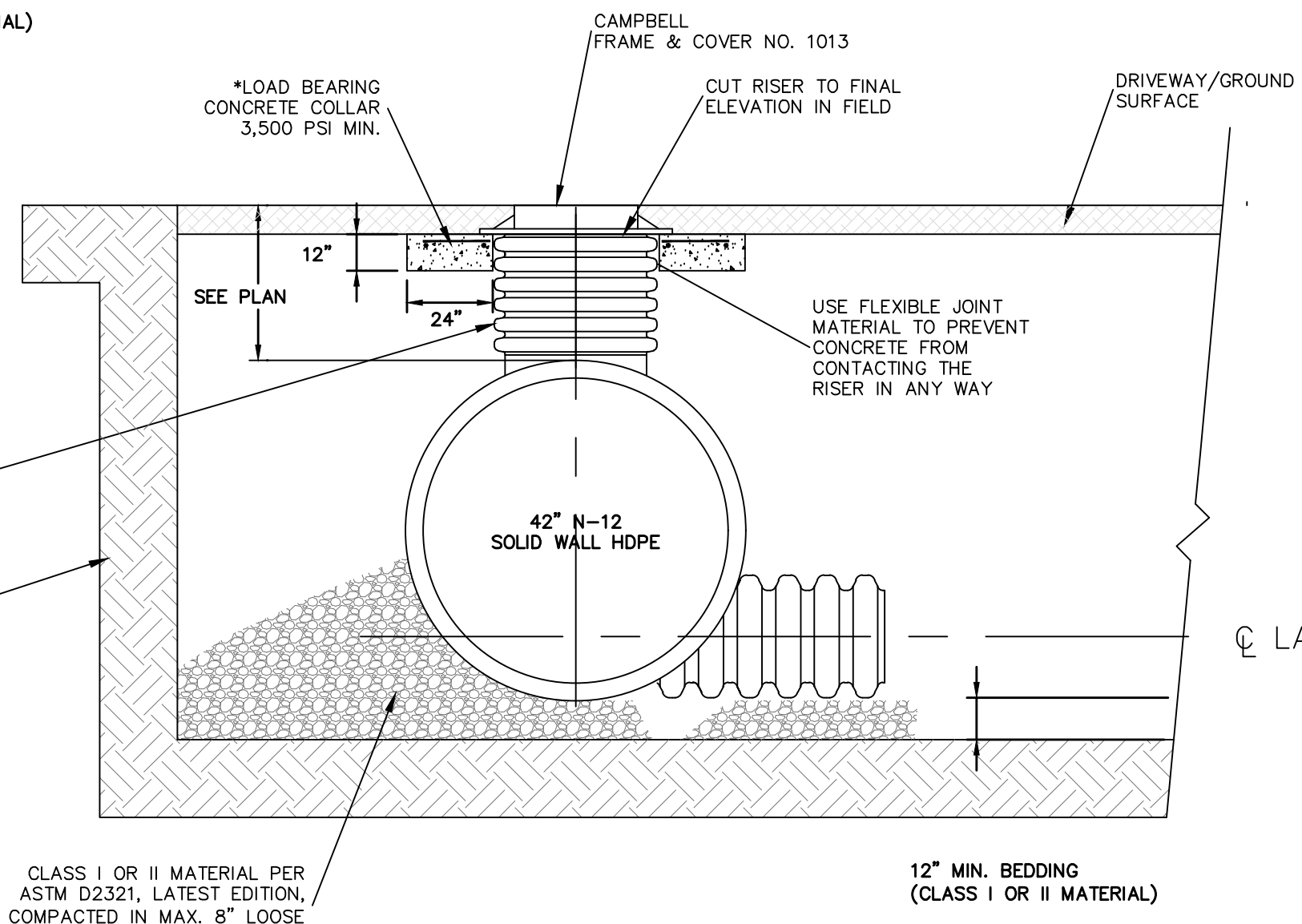


PRECAST CATCH BASIN

NOTE: ALL RIMS TO BE SET 1 1/2" BELOW ANY PAVEMENT GRADE UNTIL FINAL PAVEMENT COURSE IS PLACED

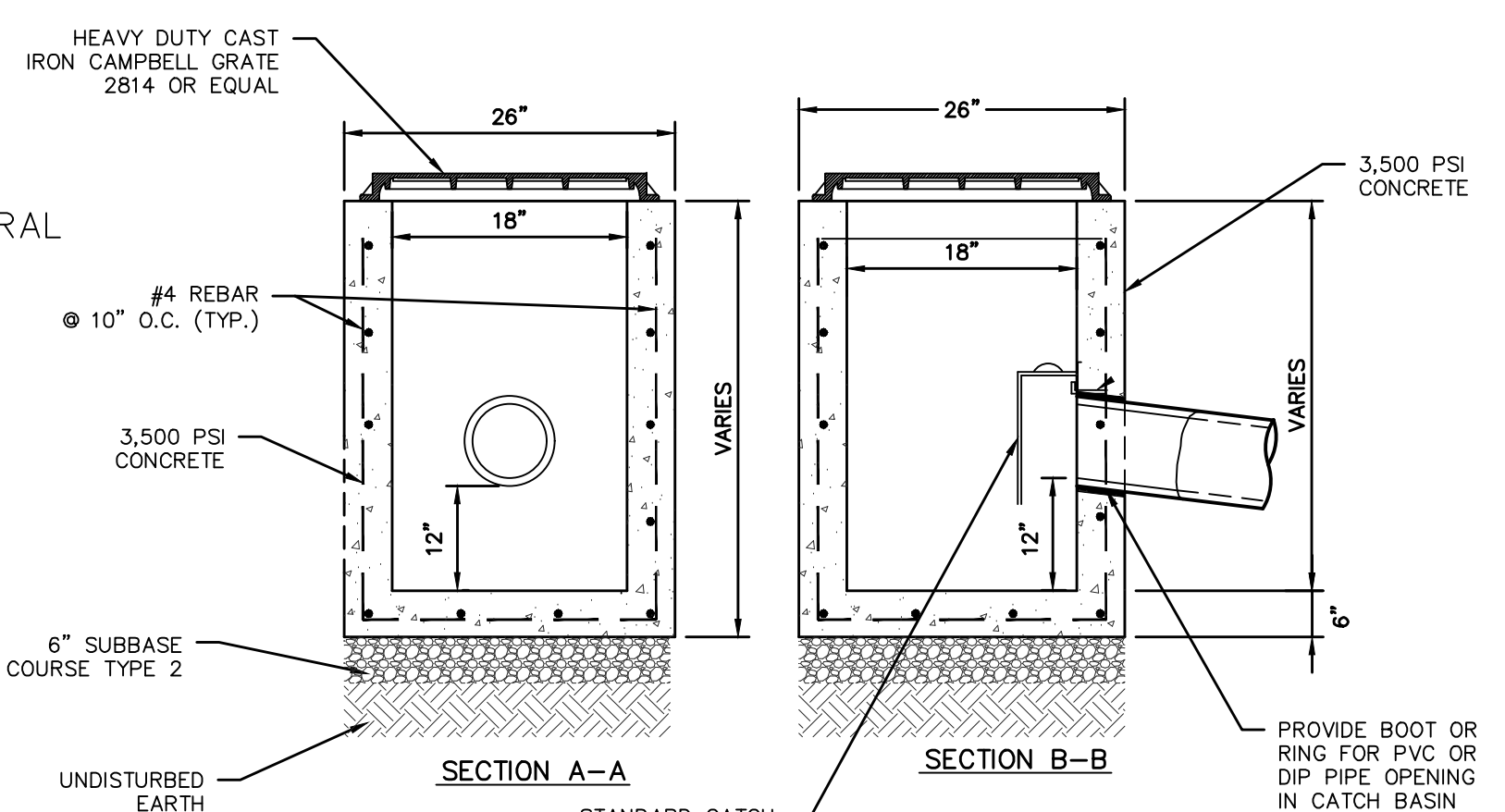
TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

- (2) PROVIDE INTEGRATED 18" DUCTILE IRON SOLID FRAME & COVER FOR OUTLET CONTROL STRUCTURE. PROVIDE 18" DUCTILE IRON STANDARD FRAME AND GRATE FOR 18" DRAIN INLET. ALL FRAMES AND COVERS/GRATES TO MATCH BASIN O.D.



ACCESS MANHOLE STRUCTURE

* 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.



18"x18" PRECAST DRAIN INLET

- NOTES:**
- CONCRETE - 3,500 PSI MINIMUM STRENGTH @ 28 DAYS
 - DESIGN LOADING - AASHTO HS20-44
 - EARTH COVER - 0 TO 5 FEET
 - CONSTRUCTION JOINT - LAPPED

- VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 24" FOR CORRUGATED HDPE (ADS N-12, ADS SINGLE WALL, HANCO DUAL WALL), SDR 35, SCH 40 DWV, CORRUGATED & RIBBED PVC, OR EQUAL

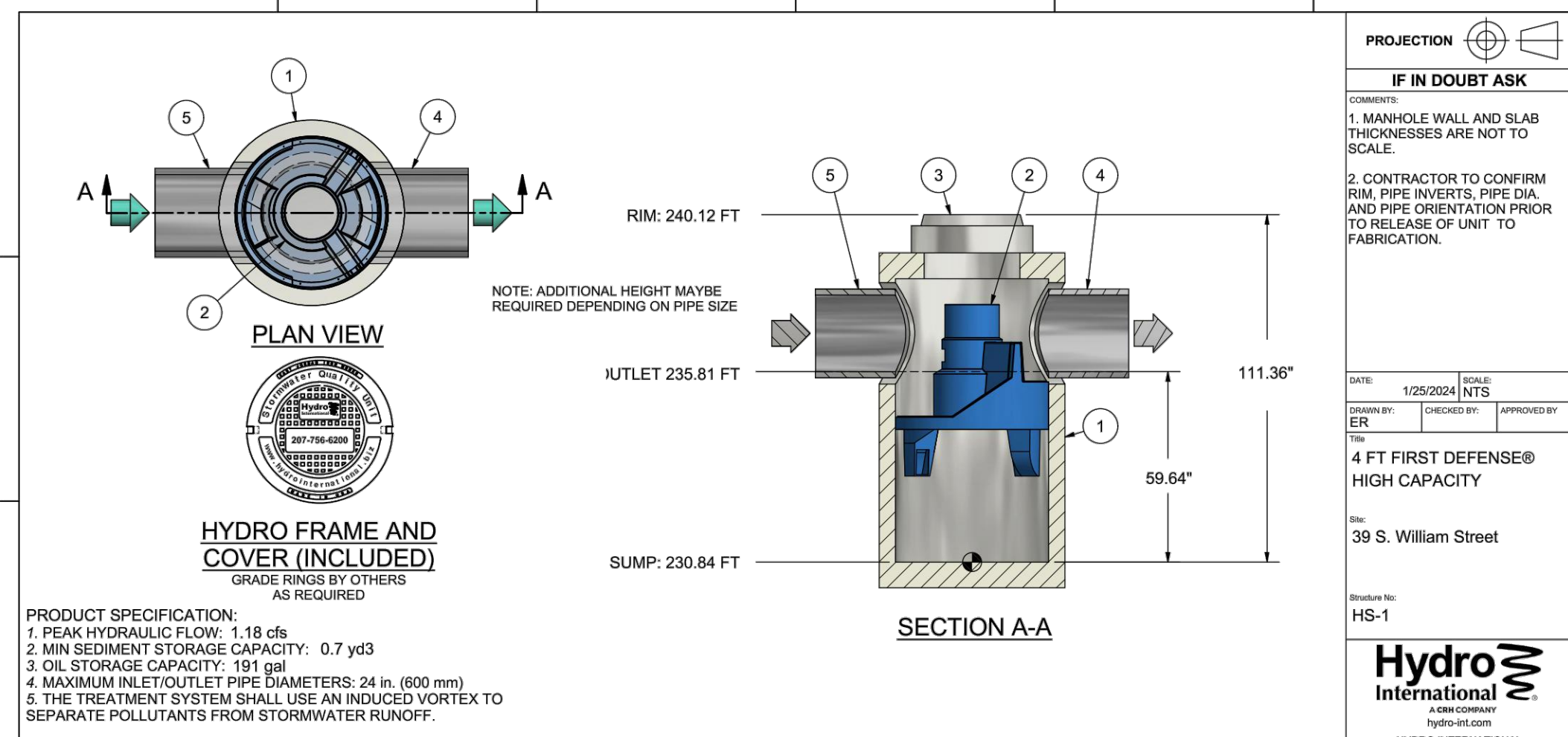
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-016
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCO DUAL WALL) & SDR 35 PVC
- 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-20	189000P	700-110-013
STANDARD	MEETS H-20	189000S	700-110-013
SOLID COVER	MEETS H-20	189000C	700-110-013
DOME	N/A	189000D	700-110-013
CRIP IN GRATE	LIGHT DUTY	18910I	700-110-012

- NOTES:**
- INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - PRODUCT SHALL BE NYLOPLAST DRAIN BASIN MANUFACTURED BY ADVANCED DRAIN SYSTEMS (ADS) OR APPROVED EQUAL.

18" NYLOPLAST BASIN



ITEM	DESCRIPTION	SIZE (in)
1	I.D. PRECAST MANHOLE	48
2	INTERNAL COMPONENTS (PRE-INSTALLED)	
3	FRAME AND COVER (ROUND)	30
4	OUTLET PIPE (BY OTHERS)	12
5	INLET PIPE (BY OTHERS)	8

FIRST DEFENSE® HIGH CAPACITY DESIGN SUMMARY

PROJECT INFORMATION

Reference: HS-1/23_12_3198
 Site: 39 S. William Street
 Designer: Daniel Collins
 Date: 10/10/2023 1:58 PM

DESIGN INPUTS

Regulatory Agency: 80% TSS (110 um)
 Water Quality Flow Rate (cfs): 0.18

DESIGN OUTPUTS

Product: 4.8 DIAMETER FIRST DEFENSE HIGH CAPACITY
 Unit Reference: FD-4HC
 * Approved for use in 80% TSS (110 um)

UNIT WEIGHTS AND DIMENSIONS

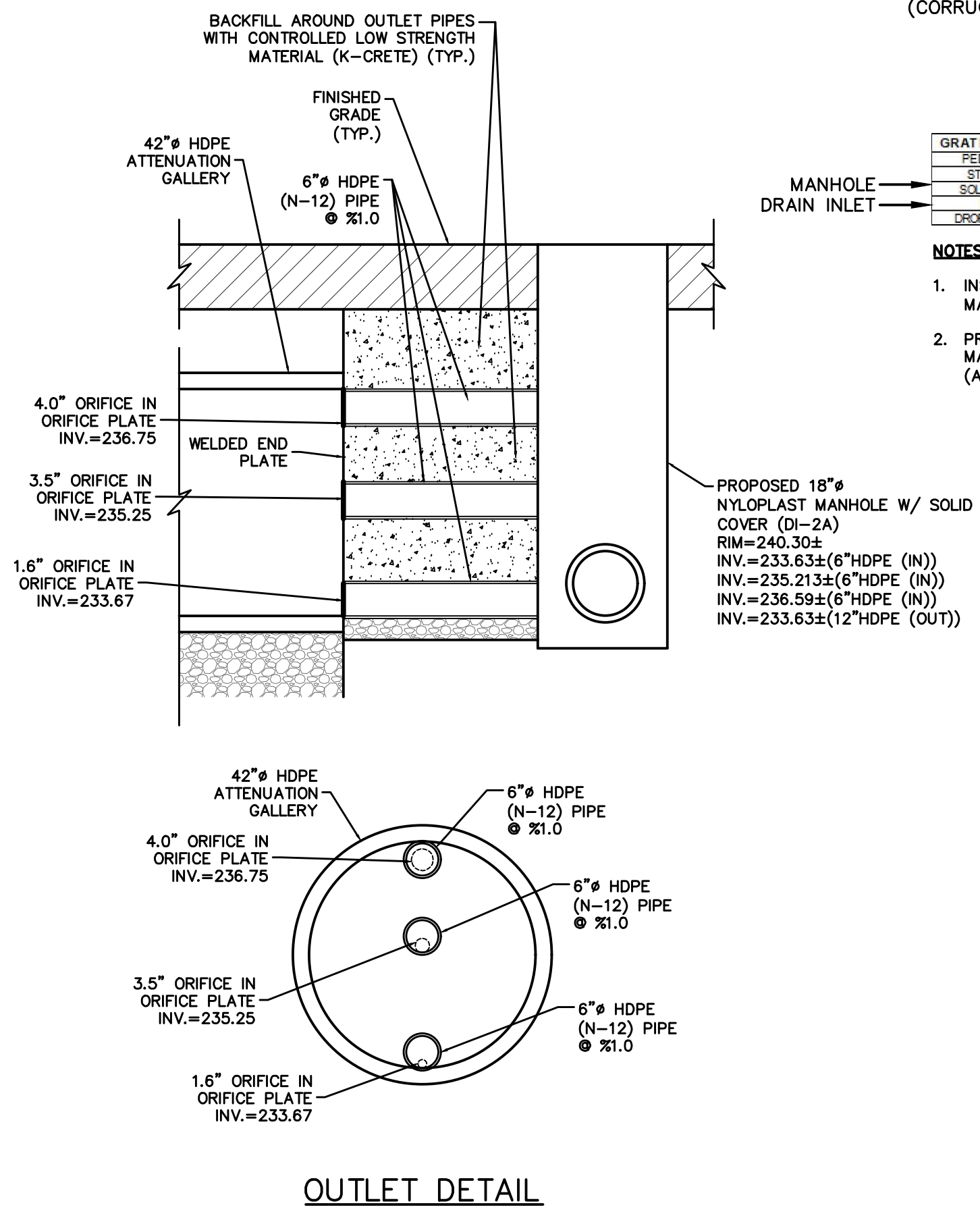
(A) Unit Size (ft)	4.00
(B) Inlet Pipe Size (in)	8
(C) Outlet Pipe Size (in)	12
(F) Unit Depth (ft)	240.18
Inlet Invert Height (ft)	235.81
Outlet Invert Height (ft)	235.81

PERFORMANCE AND HYDRAULICS

Max. Treatment Flow Rate (cfs)	1.88
Hydraulic Capacity Flow Rate (cfs)	1.18
Typical Operating Headloss (in)	0
Maximum Headloss (in)	0

STORAGE

(C) Oil Storage Capacity (gal)	191
(E) Min. Sediment Storage Capacity (yd³)	0.7



OUTLET DETAIL

PROJECT: PROPOSED COMMERCIAL BUILDING 39 SOUTH WILLIAM STREET TOWN OF ORANGETOWN ROCKLAND COUNTY - NEW YORK

DETAILS

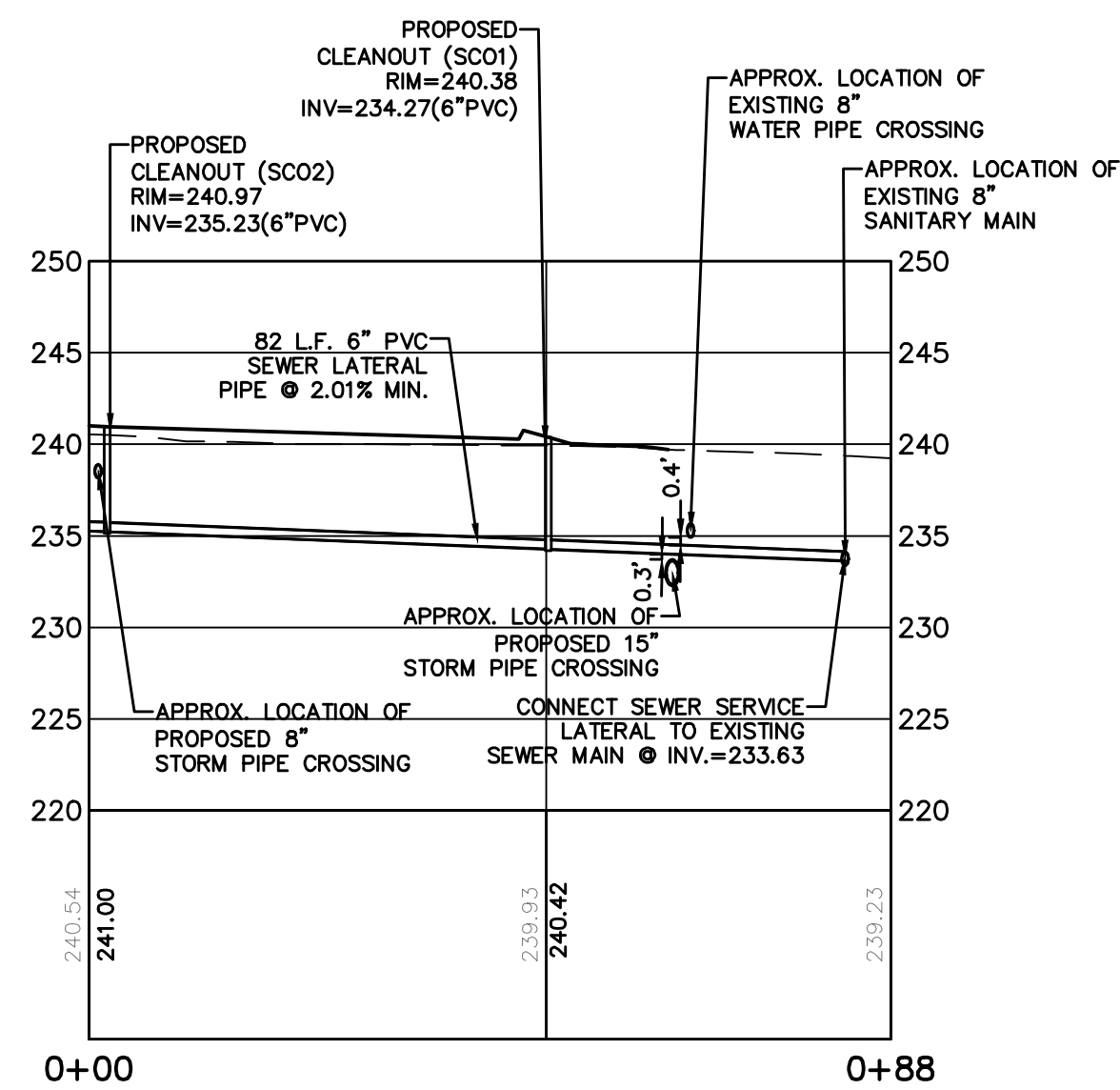
HUDSON ENGINEERING CONSULTING, P.C.
 45 Knowlton Road - Suite 201
 Elmford, New York 10523
 T: 914-909-0420
 F: 914-560-2086

HEC

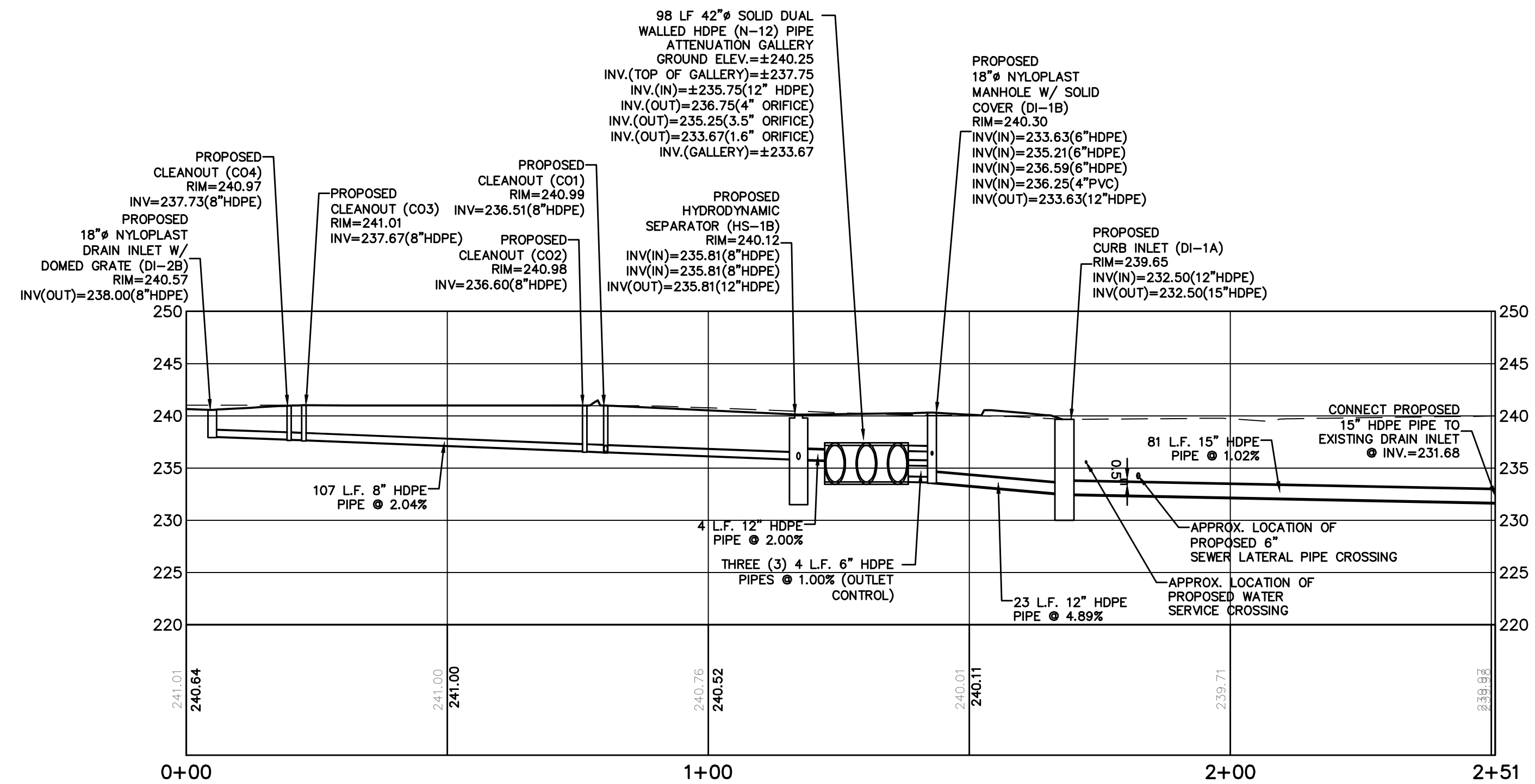
DATE: 10/20/23
 SCALE: N.T.S.
 DESIGNED BY: D.C.
 CHECKED BY: M.S.

C-6

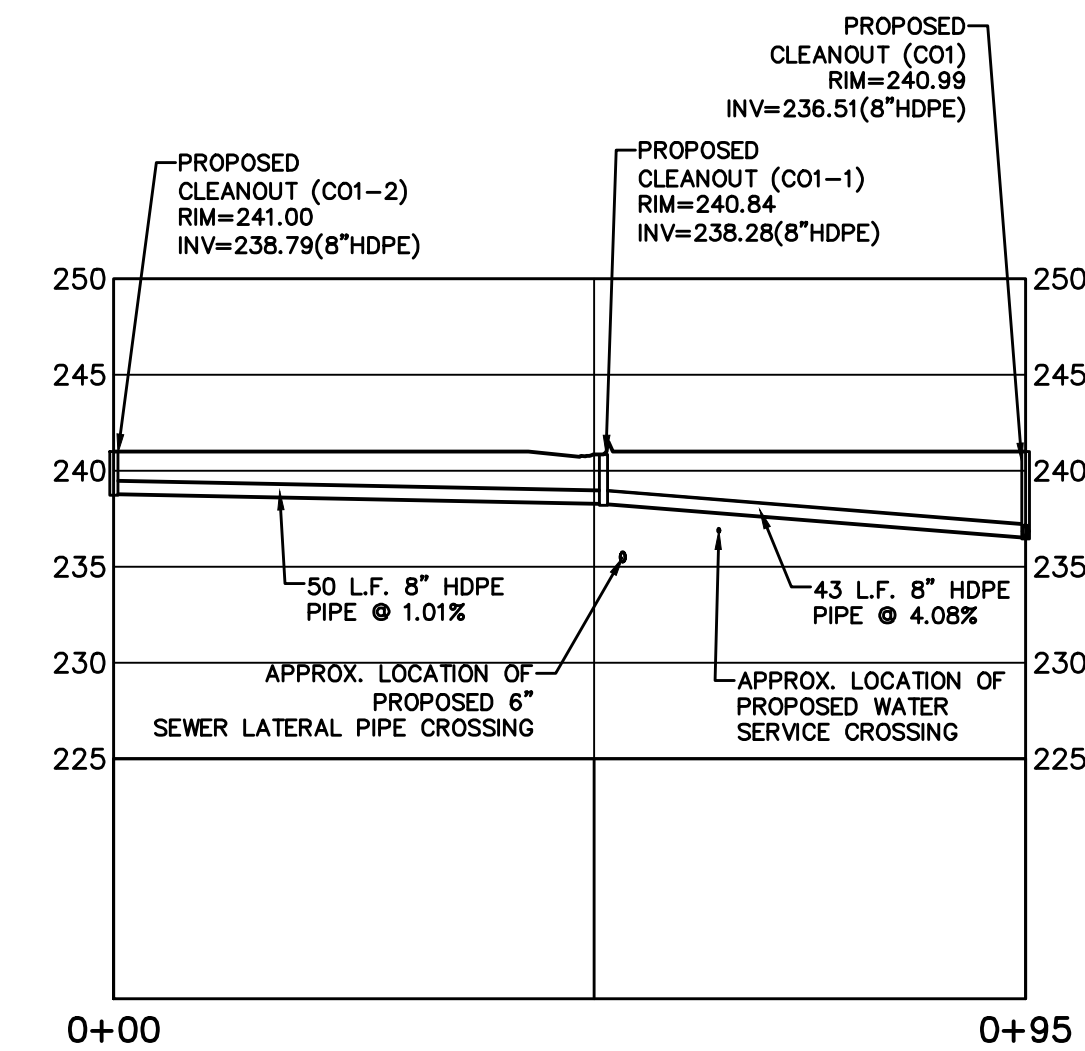
ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.



SEWER LATERAL PROFILE
 (STA. 0+00 TO STA. 0+88)
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'



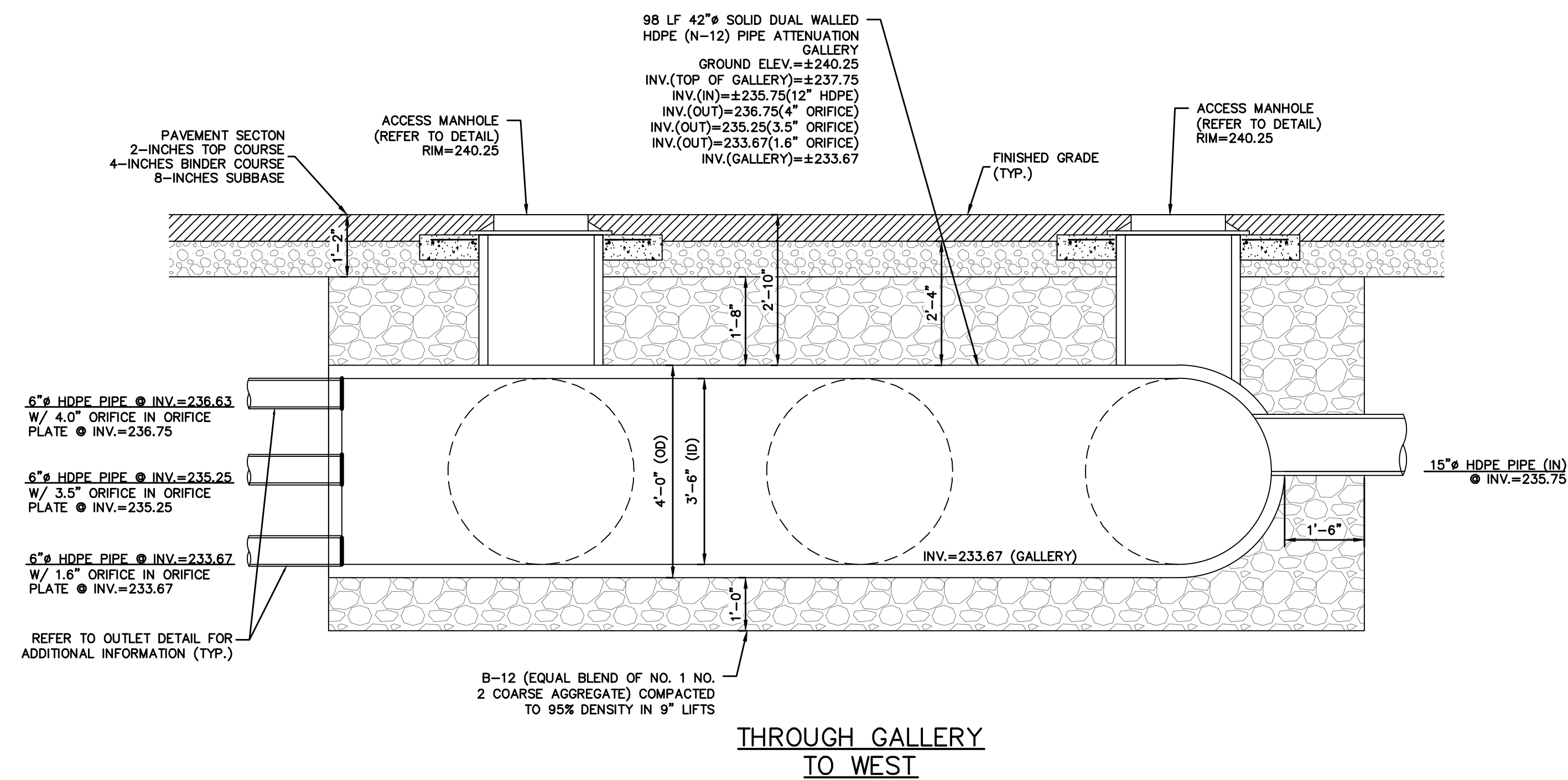
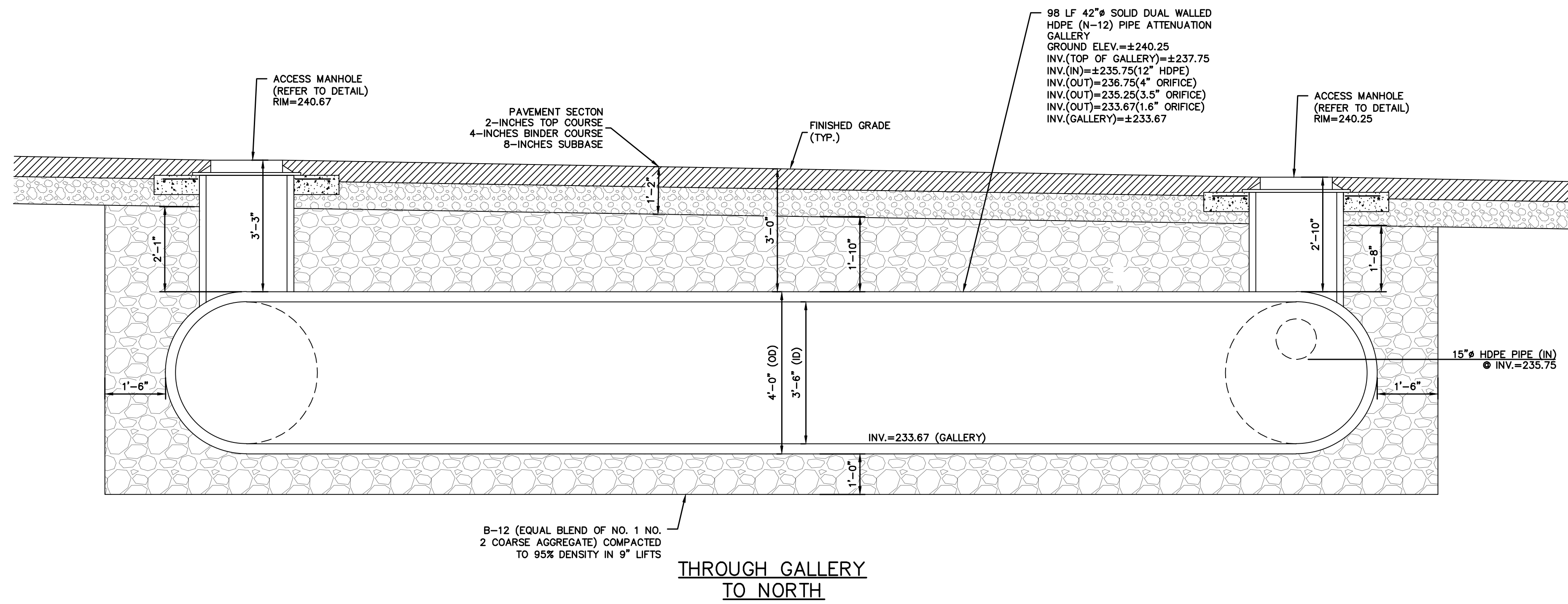
STORMWATER PROFILE
 (STA. 0+00 TO STA. 2+51)
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'
 (DI-2B TO EX. DRAIN INLET)



STORMWATER PROFILE
 (STA. 0+00 TO STA. 0+95)
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 10'
 (SOUTHERN ROOF LEADER
 COLLECTOR PIPE (CO1-2 TO CO1))

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.

PROJECT: PROPOSED COMMERCIAL BUILDING 39 SOUTH WILLIAM STREET TOWN OF ORANGETOWN ROCKLAND COUNTY - NEW YORK		
UTILITY PROFILES HUDSON ENGINEERING CONSULTING, P.C. 45 Knowlton Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086		
Date: 10/20/23 Scale: N.T.S. Designed By: D.C. Checked By: M.S. Sheet No. 9	C-7	



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.

No. _____ Description _____ Date _____	PROJECT: PROPOSED COMMERCIAL BUILDING 39 SOUTH WILLIAM STREET TOWN OF ORANGETOWN ROCKLAND COUNTY – NEW YORK	
	ATTENUATION GALLERY SECTIONS	
	Date: 1/23/24 Sheet: 9 Scale: N.T.S. Designed By: D.C. Checked By: M.S.	
	 	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE		Sheet No. C-8

© 2024