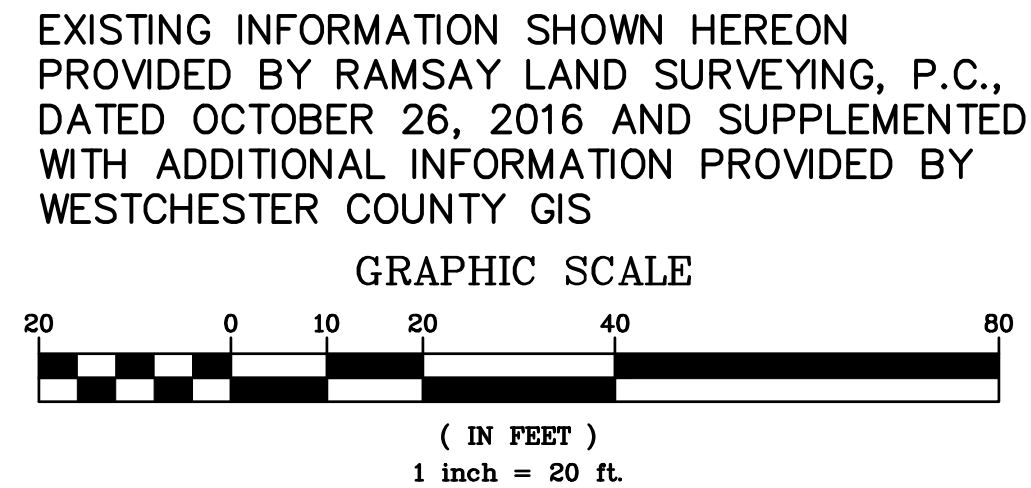
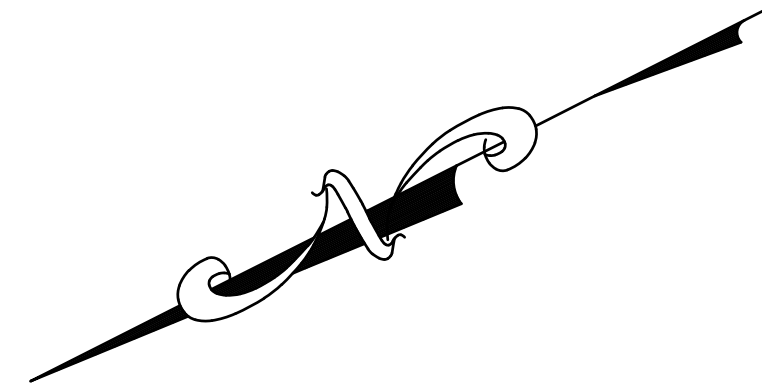
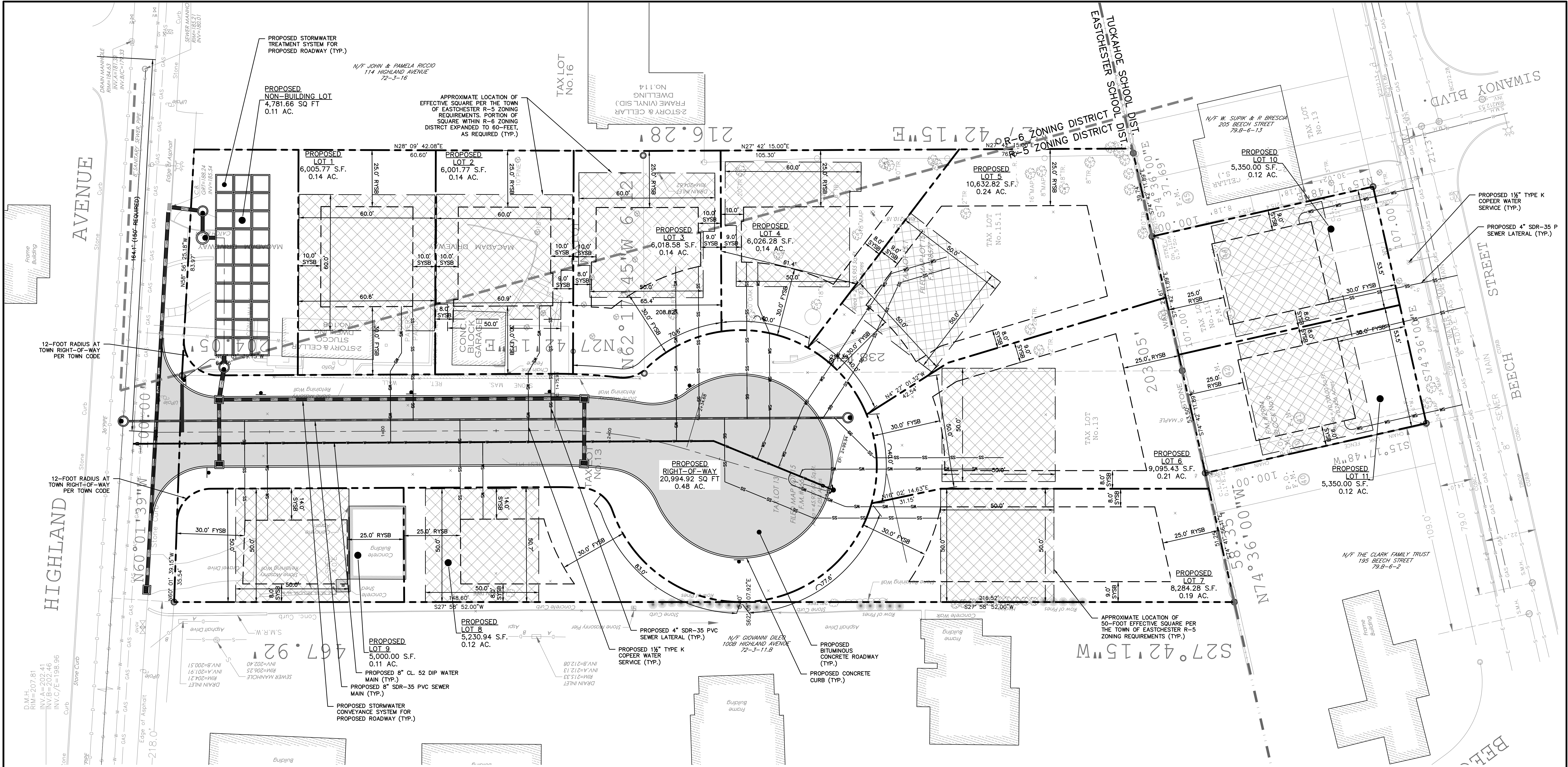


ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.



PROJECT:		PROPOSED 11-LOT SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK	
EXISTING CONDITIONS MAP		HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086	
HEC		EX-1	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		Date: 1/3/23 Sheet: 1 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 15	

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.



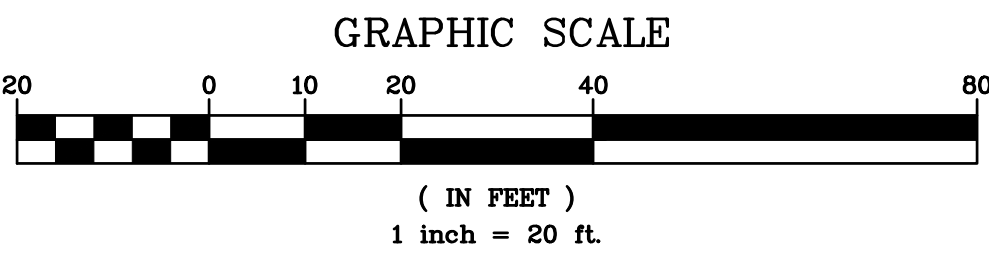
ZONING ANALYSIS TABLE														
SECTIONS: 72, 79.B BLOCKS: 3, 10 LOTS: 13, 15.1 & 10	DISTRICT: R-5/R-6 (Residential Zoning)													
REGULATION	Zoning District R-5/R-6	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11	Non-Building Lot	Right-of-Way
Min. Lot Area (s.f.)	5,000/6,000	6,005.77	6,001.77	6,018.58	6,026.28	10,632.82	9,095.43	8,284.28	5,230.94	5,000.00	5,350.00	5,350.00	4,781.66	20,994.92
Min. Lot Width (ft.)	50/60	60.6	60.9	65.4	61.4	50.0	50.0	50.0	50.0	50.0	53.5	53.5	-	-
Min. Lot Frontage (ft.)	50 ft./60 ft. (40 ft. Around Cul-de-Sac w/ 20% Reduction)*	60.6	60.9	70.6	40* (Cul-de-Sac)	40* (Cul-de-Sac)	40* (Cul-de-Sac)	77.6	83.0	50.0	53.5	53.5	-	-
Min. Yards														
- Front (ft.)	30	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	-	-
- First Side (ft.)	8/10	10.0	10.0	8/10	8/10	8.0	8.0	8.0	8.0	8.0	8.0	8.0	-	-
- Second Side (ft.)	9/10	10.0	10.0	9/10	9/10	9.0	9.0	9.0	-	-	9.0	9.0	-	-
- Street Side (ft.)	14	-	-	-	-	-	-	-	14.0	14.0	-	-	-	-
- Rear (ft.)	25	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-

* PER SECTION 9, SUBSECTION R, ENTITLED "LOT FRONTAGE ON A CUL-DE-SAC" -- IN INSTANCES WHEN A LOT FRONTS ON A CUL-DE-SAC, THE FRONTAGE REQUIREMENT ESTABLISHED IN THE APPLICABLE COLUMN IN THE SCHEDULE OF DIMENSIONAL REGULATIONS MAY BE REDUCED BY NO GREATER THAN 20%.

LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED WALKWAY/PATIO
- PROPOSED STONE MASONRY WALL

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016



Revisions	Date
1. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
2. REVISED PER TOWN COMMENTS	4/10/23
3. REVISED PER TOWN COMMENTS	3/9/23
4. REVISED PER TOWN COMMENTS	2/2/23

PROJECT:
PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

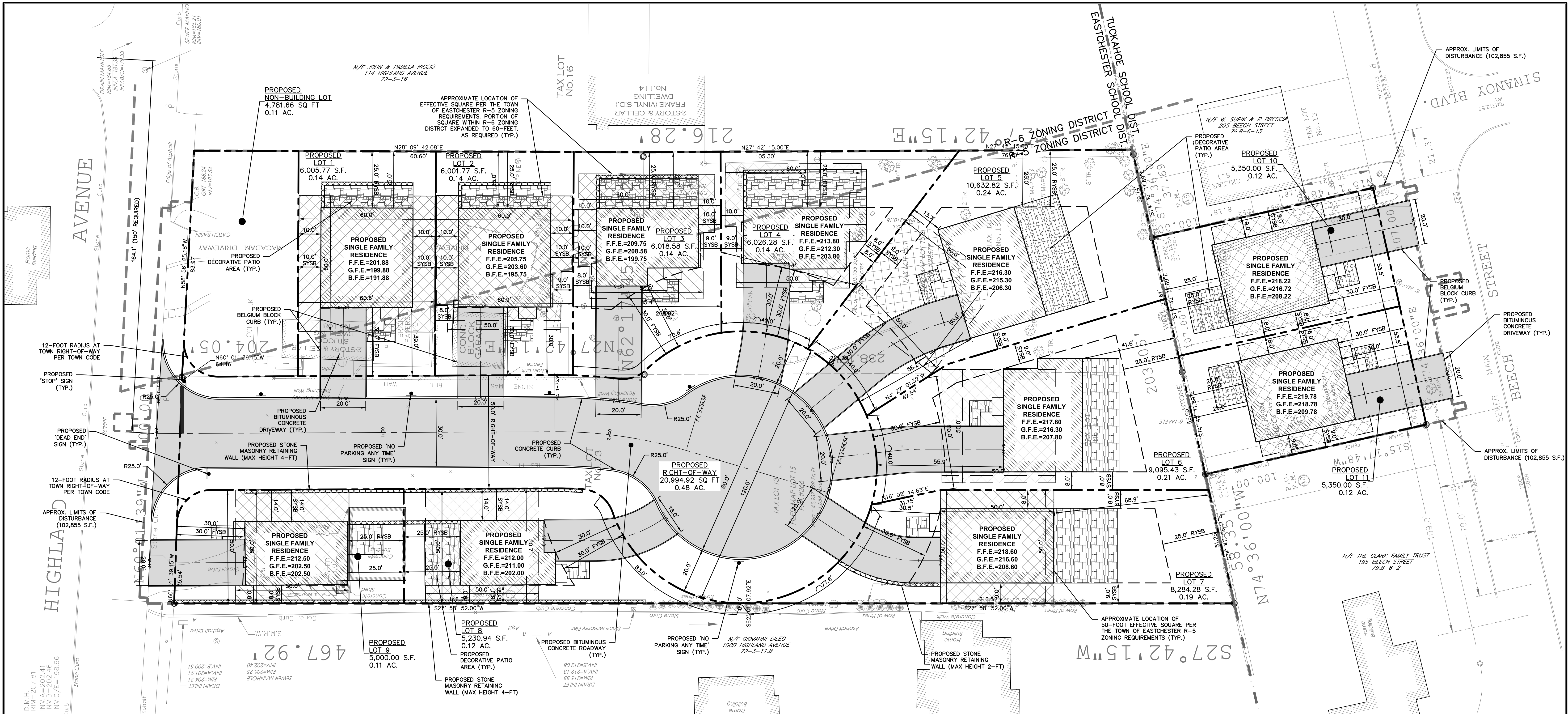
SUBDIVISION LAYOUT PLAN

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

HEC

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Date: 1/3/23 Sheet: 2 of 2
Designed By: D.C.
Checked By: M.S.
Sheet No. **SL-1**



ZONING ANALYSIS TABLE													
SECTIONS: 72, 79.B		DISTRICT: R-5/R-6											
BLOCKS: 3, 10		(Residential Zoning)											
LOTS: 13, 15.1 & 10		Zoning District	Lot 1	Lot 2	Lot 3	Lot 4	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10	Lot 11
REGULATION		R-5/R-6											
Min. Lot Area (s.f.)		5,000/6,000	6,005.77	6,001.77	6,018.58	6,026.28	10,632.82	9,095.43	8,284.28	5,230.94	5,000.00	5,350.00	5,350.00
Min. Lot Width (ft.)		50/60	60.0	60.9	65.4	61.4	50.0	50.0	50.0	50.0	50.0	53.5	53.5
Min. Lot Frontage (ft.)		(40 ft. Around Cul-de-Sac w/ 20% Reduction)*	60.6	60.9	70.6	40* (Cul-de-Sac)	40* (Cul-de-Sac)	40* (Cul-de-Sac)	77.6	83.0	50.0	53.5	53.5
Min. Yards													
- Front (ft.)		30	30.0	30.0	30.0	30.0	56.2	55.9	30.0	30.0	30.0	30.0	30.0
- First Side (ft.)		8/10	10.0	10.0	10.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
- Second Side (ft.)		9/10	10.0	10.0	10.0	10.0	13.7	9.0	9.0	-	9.0	9.0	-
- Street Side (ft.)		14	-	-	-	-	-	-	14.0	14.0	-	-	-
- Rear (ft.)		25	25.0	25.0	25.0	25.0	25.0	33.7	68.9	25.0	25.0	25.0	25.0
Height													
- To Principal Eave (ft.)		23	23	23	23	23	23	23	23	23	23	23	23
- To Ridge (ft.)		33	33	33	33	33	33	33	33	33	33	33	33
- No. of Stories		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Bldg. Coverage (s.f.)		-	1,784	1,775	1,359	1,301	1,750	1,682	1,647	1,123	1,266	1,643	1,643
Max. Bldg. Coverage (%)		31.5%/30.0%	29.7%	29.6%	22.6%	21.6%	16.5%	18.5%	19.9%	21.5%	25.3%	30.7%	30.7%
Max. GFA		2,300/2,500	2500	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
Max. Impervious Coverage (sf) (Required)		50% of lot area, or 3,000-s.f. + 25% between 6,001-s.f. and 7,500-s.f., or 3,375-s.f. + 25% between 7,501-s.f. and 10,000-s.f., or 4,000-s.f. + 20% between 10,001-s.f. and 15,000-s.f.	3,001	3,000	3,005	3,007	4,127	3,774	3,571	2,615	2,500	2,675	2,675
Max. Impervious Coverage (sf) (Provided)			3,001	3,000	3,005	3,007	4,127	3,774	3,571	2,615	2,500	2,675	2,675
Max. Impervious Coverage (%) (Provided)			50.0%	50.0%	49.9%	49.9%	38.8%	41.5%	43.1%	50.0%	50.0%	50.0%	50.0%

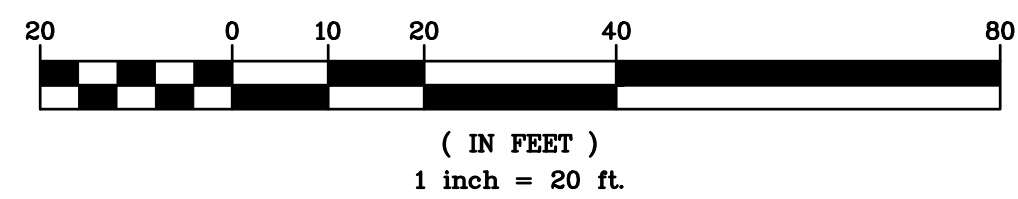
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LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED WALKWAY/PATIO
- PROPOSED STONE MASONRY WALL

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016

GRAPHIC SCALE



4	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3	REVISED PER TOWN COMMENTS	4/10/23
2	REVISED PER TOWN COMMENTS	3/4/23
1	REVISED PER TOWN COMMENTS	2/2/23
0	REVISED PER TOWN COMMENTS	1/2/23

PROJECT:

PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

SITE PLAN

HEC

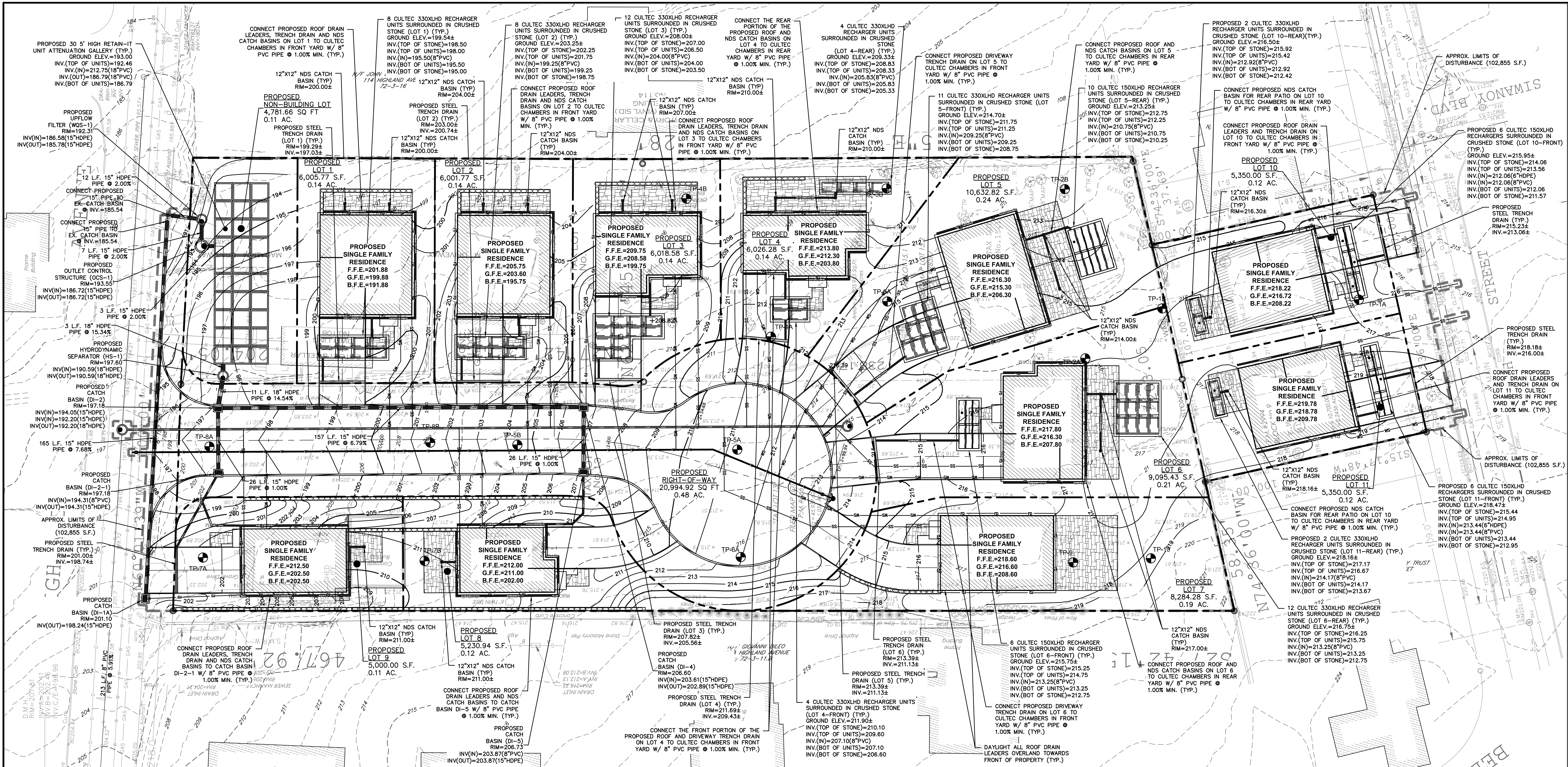
HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

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STATE OF NEW YORK
MICHAEL J. STERN
LICENSED PROFESSIONAL ENGINEER
No. 60657

Date: 1/3/23 Sheet: 3
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 15

C-1



GENERAL NOTES:

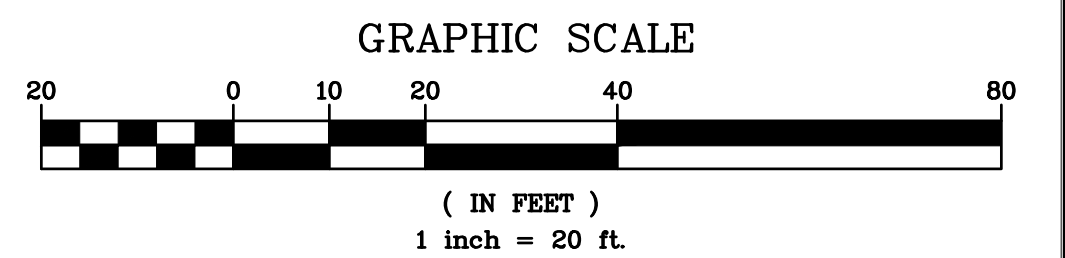
1. THE ENGINEER SHALL BE RESPONSIBLE FOR THE INSPECTION OF THE INSTALLATION OF BOTH WATER AND SEWER SERVICE EXTENSIONS, PER WDOH REQUIREMENTS.
2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 967.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO A.C.I., A.I.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. 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.
7. THE 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.
8. 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.
9. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
10. 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 GL COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO AND 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.

LEGEND

PROPERTY LINE	---	PROPOSED MANHOLE	⊙
PROPOSED CONCRETE CURB	—	PROPOSED TRENCH DRAIN	—
PROPOSED WALKWAY/PATIO	—	PROPOSED WATER MAIN	— 8-WTR —
PROPOSED STONE MASONRY WALL	—	PROPOSED WATER SERVICE	— WS —
PROPOSED CONTOUR	— 220 —	PROPOSED SANITARY SEWER MAIN	— SAN —
PROPOSED SPOT GRADE	+215.60	PROPOSED SANITARY SEWER SERVICE	— SS —
PROPOSED STORM PIPE	—	TEST PIT LOCATION	TP-1
PROPOSED DRAIN INLET	⊠	PROPOSED LIMIT OF DISTURBANCE	---
PROPOSED CATCH BASIN	⊠		

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY GIS



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REVISIONS	DATE	BY
1. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23	HEC
2. REVISED PER TOWN COMMENTS	4/10/23	HEC
3. REVISED PER TOWN COMMENTS	3/17/23	HEC
4. REVISED PER TOWN COMMENTS	2/2/23	HEC

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT: PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

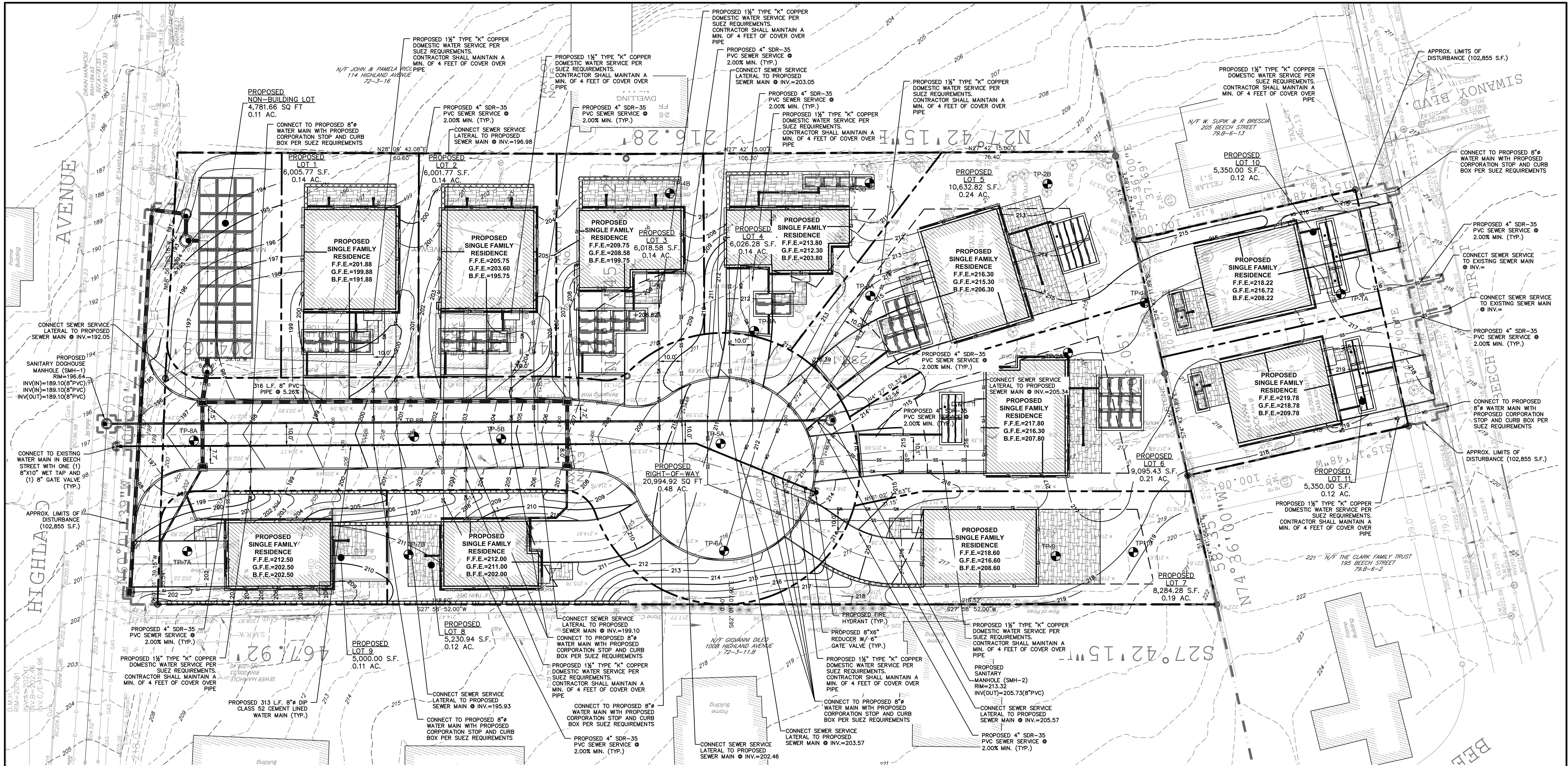
STORMWATER MANAGEMENT PLAN

HUDSON ENGINEERING CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-409-0420
F: 914-560-2086

STATE OF NEW YORK
MICHAEL P. STERN
LICENSED PROFESSIONAL ENGINEER
No. 60651

Date: 1/3/23 Sheet: 15
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No.

C-2



SANITARY SEWER NOTES:

- ALL STRUCTURES PERTAINING TO SEWER SYSTEM SUCH AS PIPES, MANHOLES, BUILDING CONNECTIONS AND ALL OTHER WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH REQUIREMENTS OF RULES AND REGULATIONS AS SET FORTH BY THE ENGINEER.
- NO SANITARY SEWER SHALL BE ACTIVATED UNTIL EXFILTRATION/ INFILTRATION TEST IS MADE AND HAS MET REQUIREMENTS AND STANDARDS AS SET FORTH BY THE ENGINEER. LEAKAGE SHALL NOT EXCEED 100 GPD/MILE/INCH DIAMETER OR ANY OTHER REQUIREMENTS SET FORTH BY EITHER THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH, DIVISION OF ENVIRONMENTAL FACILITIES. WATER TESTS SHALL BE PERFORMED UNDER A MINIMUM POSITIVE HEAD OF 2 FEET (5 FEET FOR WOOD SEWERS). LOW PRESSURE AIR TESTING IS PERMITTED FOR PIPE LINES AND SHOULD CONFORM TO ASTM F-1417. VACUUM TESTING IS PERMITTED FOR MANHOLES, BUT IS NOT PERMISSIBLE FOR PIPELINES. ALL VACUUM TESTING SHALL CONFORM TO ASTM C-1244. THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS IN ADVANCE OF ANY PRESSURE TESTING.
- NO BUILDING CONNECTIONS SHALL BE MADE ON NEWLY CONSTRUCTED SEWER UNTIL NEWLY CONSTRUCTED SEWER HAS BEEN OFFICIALLY APPROVED BY THE ENGINEER.
- SANITARY SEWER MAIN SHALL CONSIST MAINLY OF 8" CLASS 52 CEMENT LINED PIPE WITH MECHANICAL JOINTS.
- THE BED FOR SANITARY SEWER PIPE, WHEN INSTALLED ALONG ROCK TRENCH, SHALL CONSIST OF A MINIMUM OF 6" OF SELECT MATERIAL. NO PIPES SHALL BE INSTALLED UNLESS SELECT MATERIAL IS PREVIOUSLY APPROVED.
- ANY SANITARY SEWER LINES TO BE DEDICATED TO THE CITY OF WHITE PLAINS SHALL FIRST BE SUBJECTED TO TESTS AND INSPECTION AS REQUIRED BY THE ENGINEER, THE SUPERINTENDENT, AND THE WDOH.
- UPON COMPLETION AND PRIOR TO USE, TWO (2) SETS OF AS-BUILT PLANS MUST BE SUBMITTED TOGETHER WITH P.E. CERTIFICATION OF CONSTRUCTION, AND ACCEPTABLE RESULTS OF LOW PRESSURE AIR TESTING/VACUUM TESTING OF SEWER PIPE AND MANHOLES.
- THE CITY OF WHITE PLAINS SHALL OWN AND MAINTAIN THE COMMON FORCE MAIN AND SEWER LINES UP TO AND INCLUDING THE VALVE BOX WHICH ARE LOCATED WITHIN THE TOWN RIGHT OF WAY. THE CITY OF WHITE PLAINS ASSUMES RESPONSIBILITY FOR THE CARE, MAINTENANCE AND REPLACEMENT OF SAME AS REQUIRED TO PROVIDE ADEQUATE SERVICE. THE CITY OF WHITE PLAINS ASSUMES NO RESPONSIBILITY FOR ANY PUMPS, FIXTURES OR SERVICE LINES OUTSIDE OF THE TOWN RIGHT OF WAY.
- THE HOMEOWNER(S) WILL BE RESPONSIBLE FOR THE INDIVIDUAL SEWER SERVICE LINES

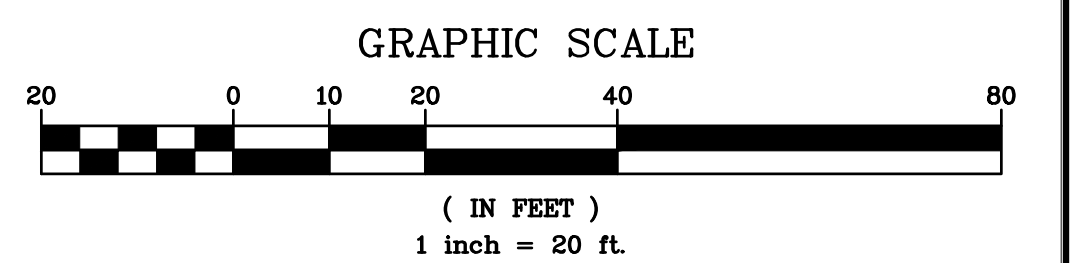
WATER NOTES

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE WATER DEPARTMENT HAVING JURISDICTION AND IN ACCORDANCE WITH REQUIREMENTS AND SPECIFICATIONS AS SET FORTH BY THE SUPERINTENDENT OF THE WATER WORKS.
- MINIMUM COVER FOR WATER MAINS TO BE 4'-0" OR AS DIRECTED BY THE SUPERINTENDENT OF THE WATER DEPARTMENT TO MEET FIELD CONDITIONS.
- THE SUPERINTENDENT OF THE WATER WORKS DECISION SHALL BE FINAL ON ANY CONSTRUCTION DISPUTES TO MEET FIELD CONDITIONS.
- WHERE WATER MAIN PASSES UNDER SEWER, A MINIMUM OF 18 INCHES VERTICAL CLEARANCE IS REQUIRED. ALL WORK MUST BE CARRIED OUT IN ACCORDANCE WITH REQUIREMENTS OF THE WATER WORKS.
- ALL WATER MAINS TO BE 8" DIAMETER CLASS 52 CEMENT LINED DUCTILE IRON PIPE.
- WATER MAINS INSTALLED IN FILL AREAS WITHIN EASEMENTS SHALL HAVE FILL UNDER PIPE PLACED AND COMPACTED IN 8" LAYERS TO HAVE A PROCTOR DENSITY OF 98%; TO BE TESTED AND CERTIFIED BY CONTRACTORS TESTING LAB.
- PROVIDE CURB VALVE AND CURB BOX AT END OF WATER SERVICE LINE IN BACK OF CURB.
- AIR RELIEF VALVES SHALL BE PLACED ON WATER LINES AT GRADE PEAKS WHERE ELEVATION DIFFERENCES EXCEED 30 FEET OR AS DIRECTED BY THE SUPERINTENDENT OF WATER DEPARTMENT.
- WATER MAINS SHALL NOT BE PLACED WITHIN TEN (10) FEET OF SANITARY MANHOLES.
- ALL WATER MAINS TO BE PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARD C600-05 OR LATEST REVISION, & DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-05, EXCEPT SEC. 4.4.2. TABLET METHOD (WHICH IS NOT APPROVABLE), OR LATEST REVISION. ALL BACTERIOLOGICAL TESTING MUST BE PERFORMED BY A NYS APPROVED LABORATORY AND SENT TO AND APPROVED BY WESTCHESTER COUNTY DEPARTMENT OF HEALTH BEFORE WATER MAIN IS PUT INTO SERVICE. ALL PRESSURE TESTING MUST BE PERFORMED AND WITNESSED BY A NYS P.E. AND ALL RESULTS CERTIFIED TO THE WDOH BEFORE WATER MAIN IS PUT INTO SERVICE. THE WDOH MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY PRESSURE TESTING.

LEGEND

PROPERTY LINE	PROPOSED MANHOLE	PROPOSED TRENCH DRAIN
PROPOSED CONCRETE CURB	PROPOSED WATER MAIN	PROPOSED WATER SERVICE
PROPOSED ASPHALT DRIVEWAY	PROPOSED SANITARY SEWER MAIN	PROPOSED SANITARY SEWER SERVICE
PROPOSED WALKWAY/PATIO	PROPOSED SANITARY SEWER SERVICE	TEST PIT LOCATION
PROPOSED STONE MASONRY WALL	PROPOSED LIMIT OF DISTURBANCE	
PROPOSED CONTOUR		
PROPOSED SPOT GRADE		
PROPOSED STORM PIPE		
PROPOSED DRAIN INLET		
PROPOSED CATCH BASIN		

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY GIS



5/7/23

4/10/23

3/17/23

2/2/23

1/10/23

12/1/22

11/1/22

10/1/22

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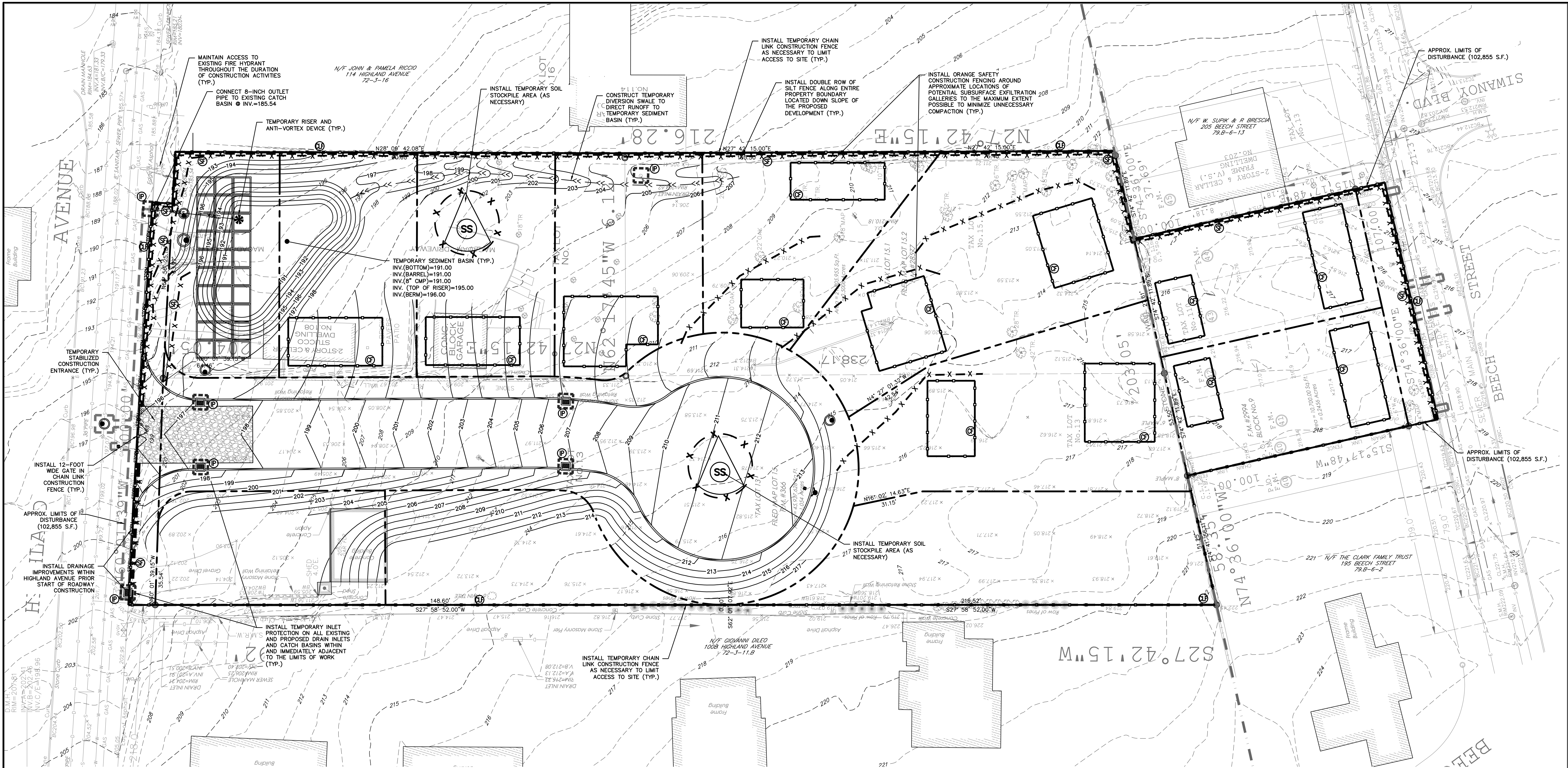
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INSTALLATION & MAINTENANCE OF EROSION CONTROL:

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.

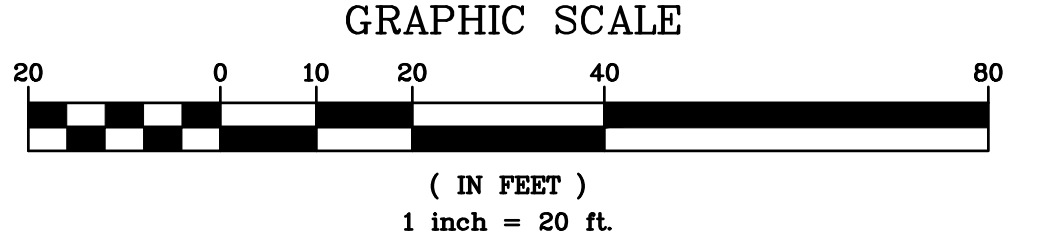
INSPECTION BY MUNICIPALITY - FINAL INSPECTION

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.

LEGEND

- PROPERTY LINE
- TEMPORARY INLET PROTECTION
- TEMPORARY SILT FENCE
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY SOIL STOCKPILE AREA
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY GIS



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.

4	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3	REVISED PER TOWN COMMENTS	4/10/23
2	REVISED PER TOWN COMMENTS	3/9/23
1	REVISED STOCKPILE BOUNDARY	2/23/23
0	DATE	5/7/23

Revisions	Drawn
1	1
2	2
3	3
4	4

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

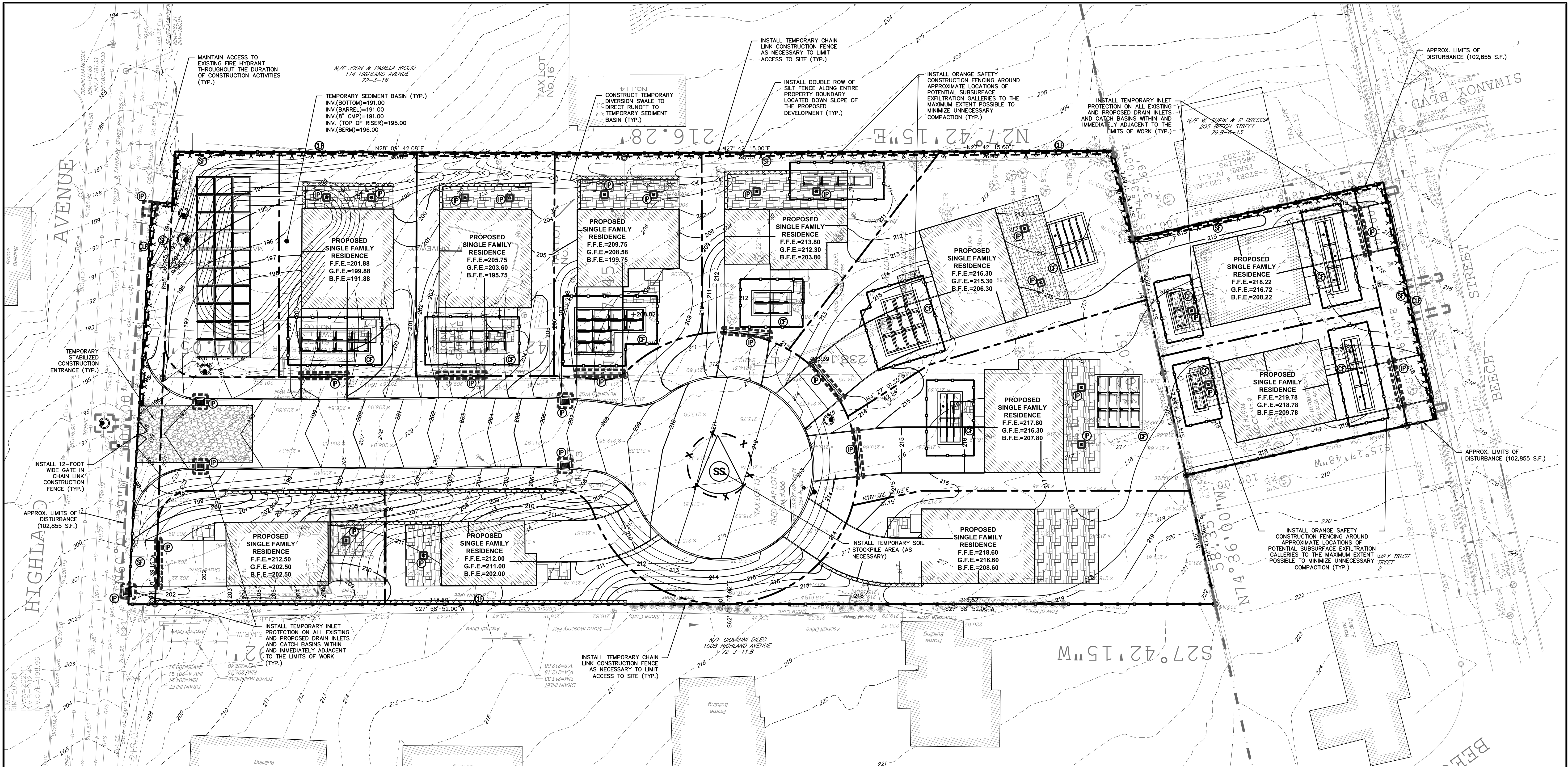
PROJECT: PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

EROSION & SEDIMENT CONTROL PLAN
ROADWAY CONSTRUCTION

HUDSON ENGINEERING & CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-409-0420
F: 914-560-2086
© 2023

Date: 1/3/23 Sheet: 6
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 15

C-4A



INSTALLATION & MAINTENANCE OF EROSION CONTROL:

CONSTRUCTION SCHEDULE
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MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

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INSPECTIONS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION.

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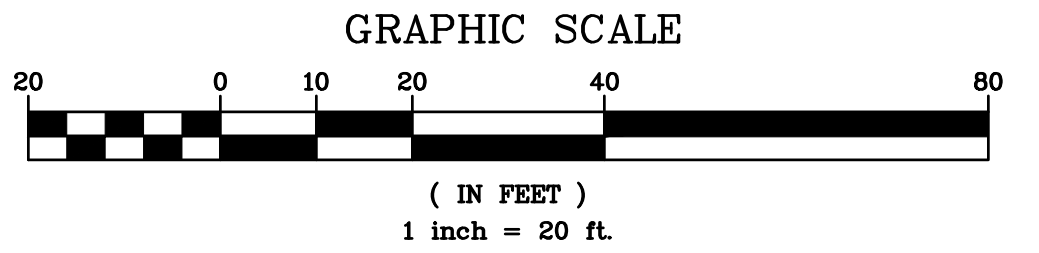
INSPECTION BY MUNICIPALITY - FINAL LANDSCAPING
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CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

LEGEND

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- TEMPORARY SILT FENCE
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY SOIL STOCKPILE AREA
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING, P.C., DATED OCTOBER 26, 2016 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY GIS



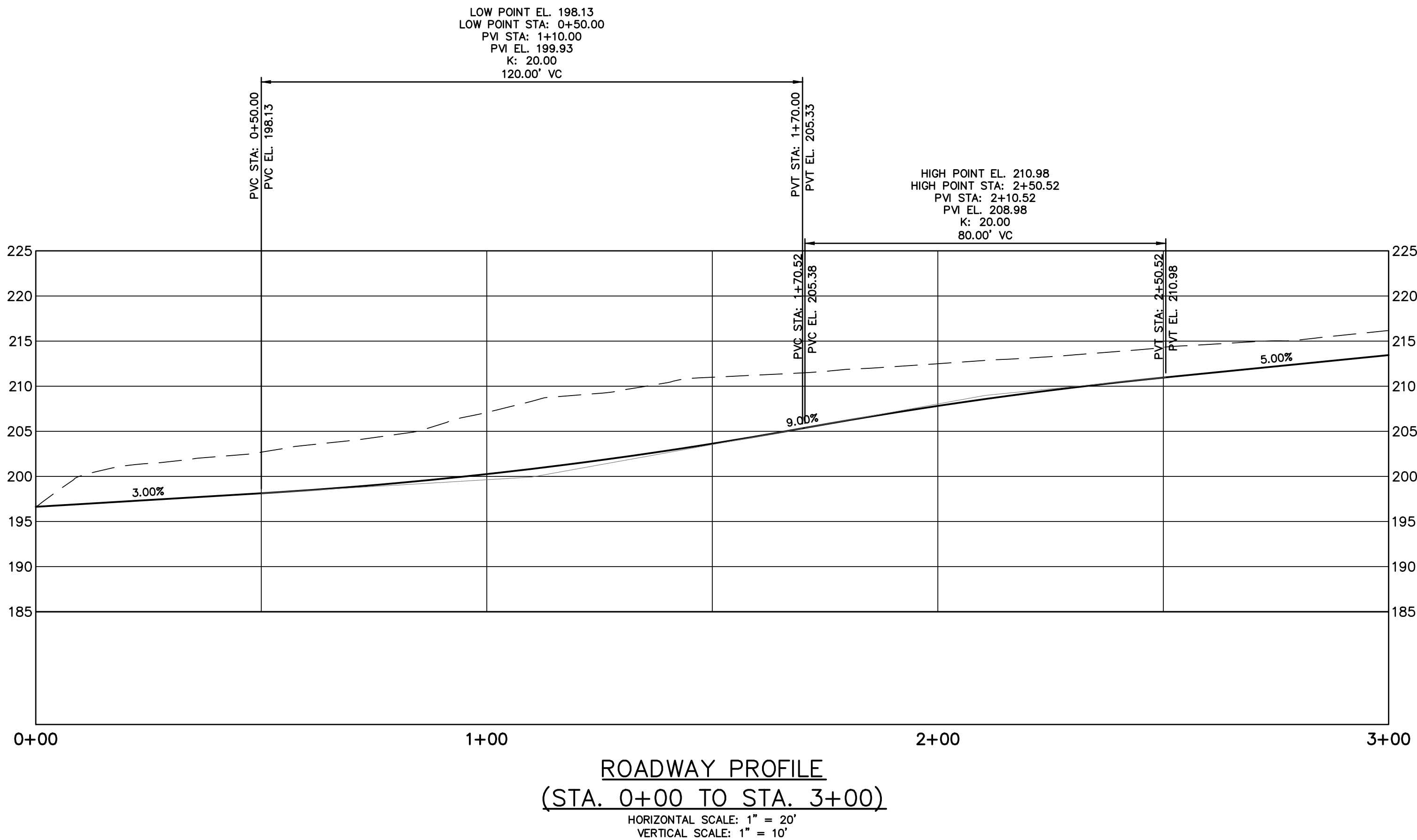
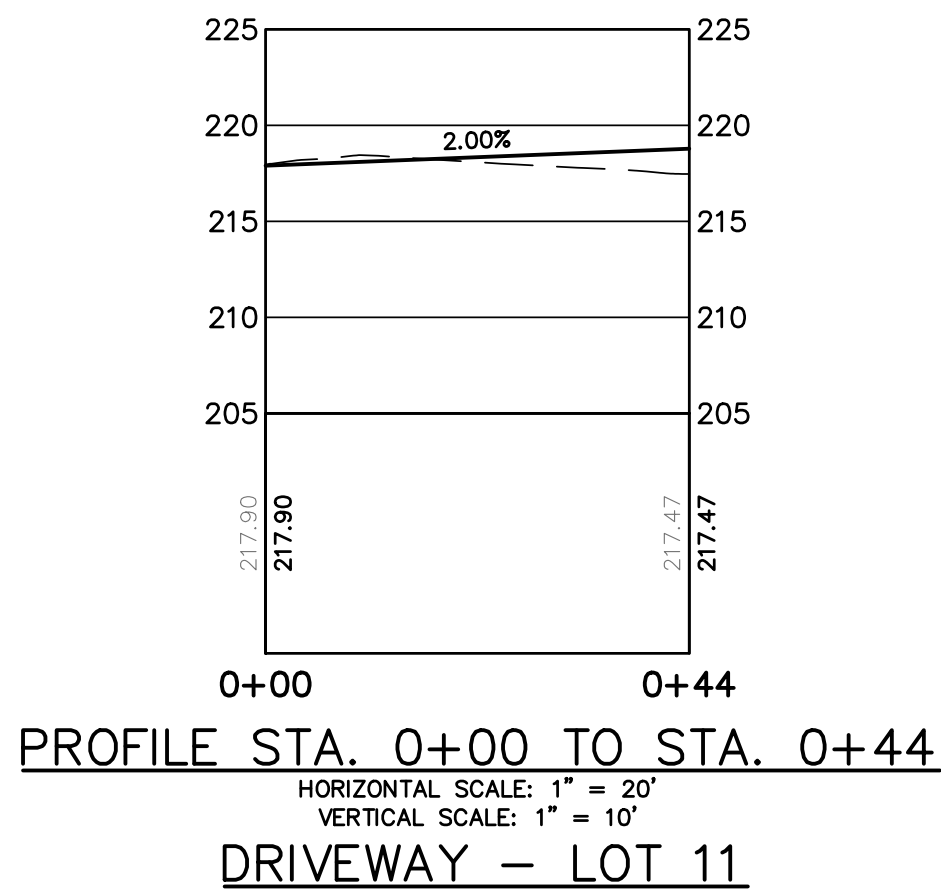
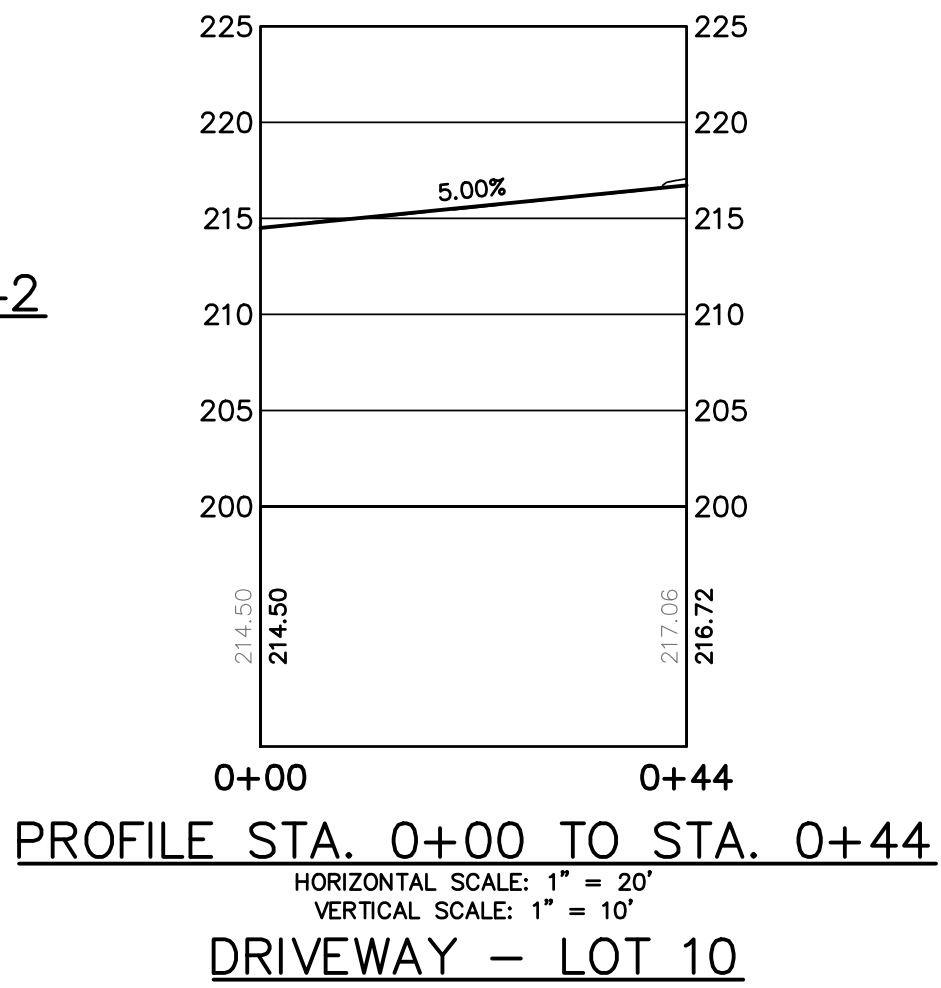
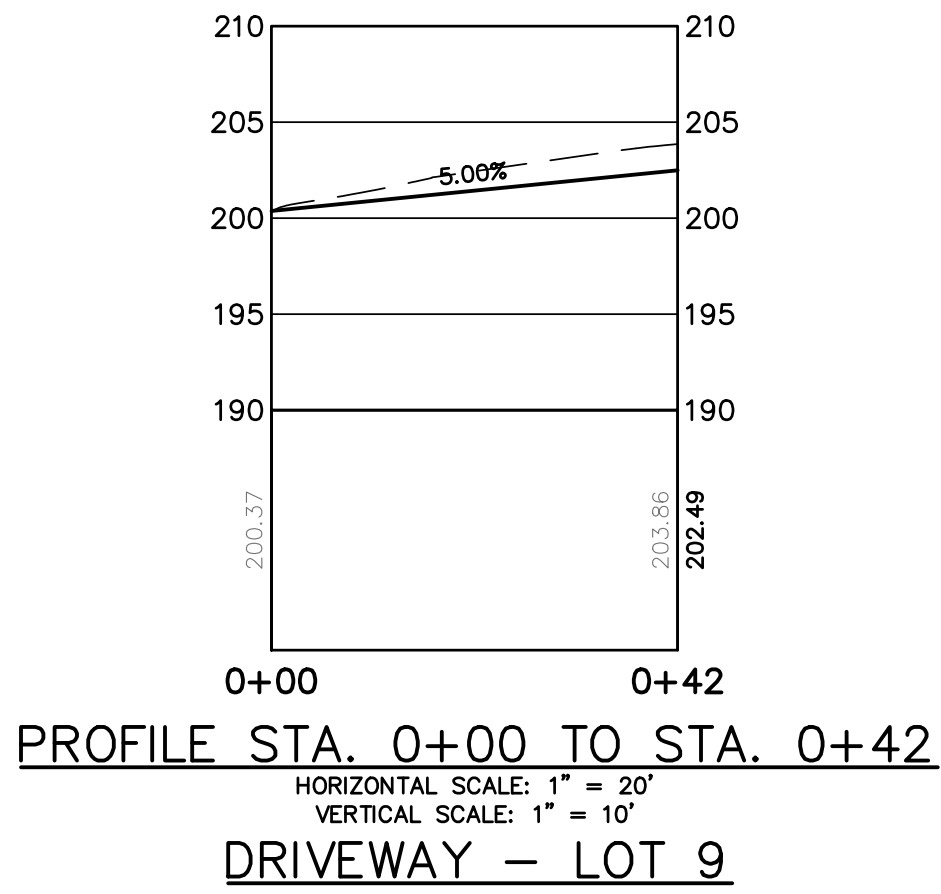
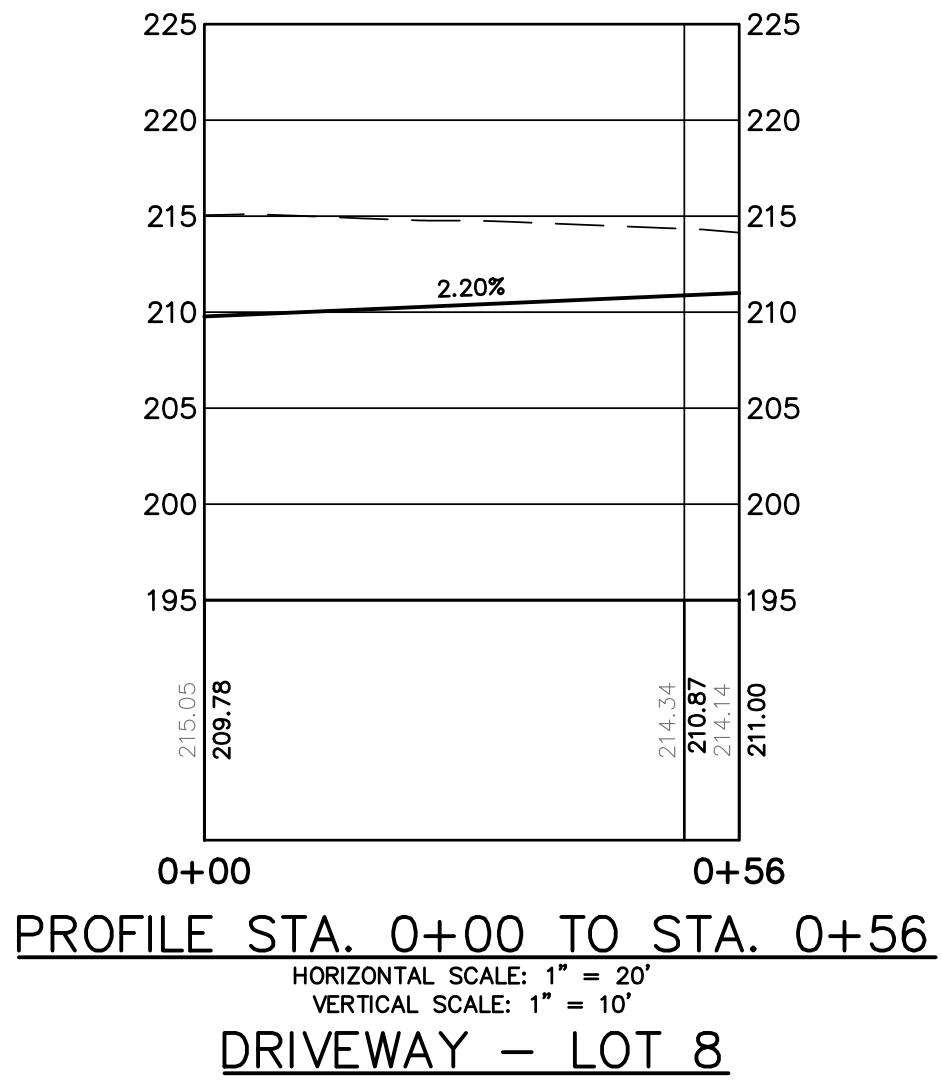
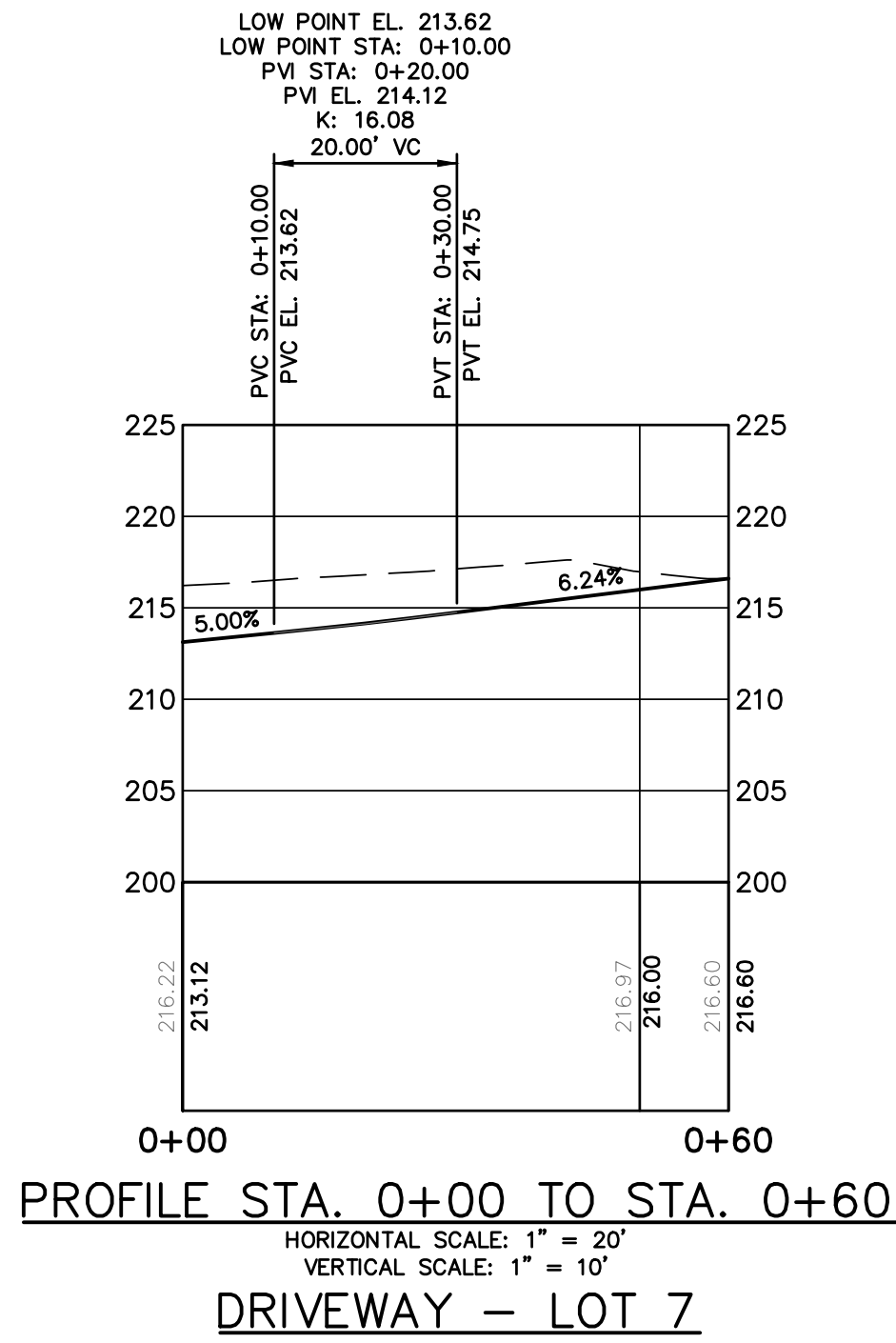
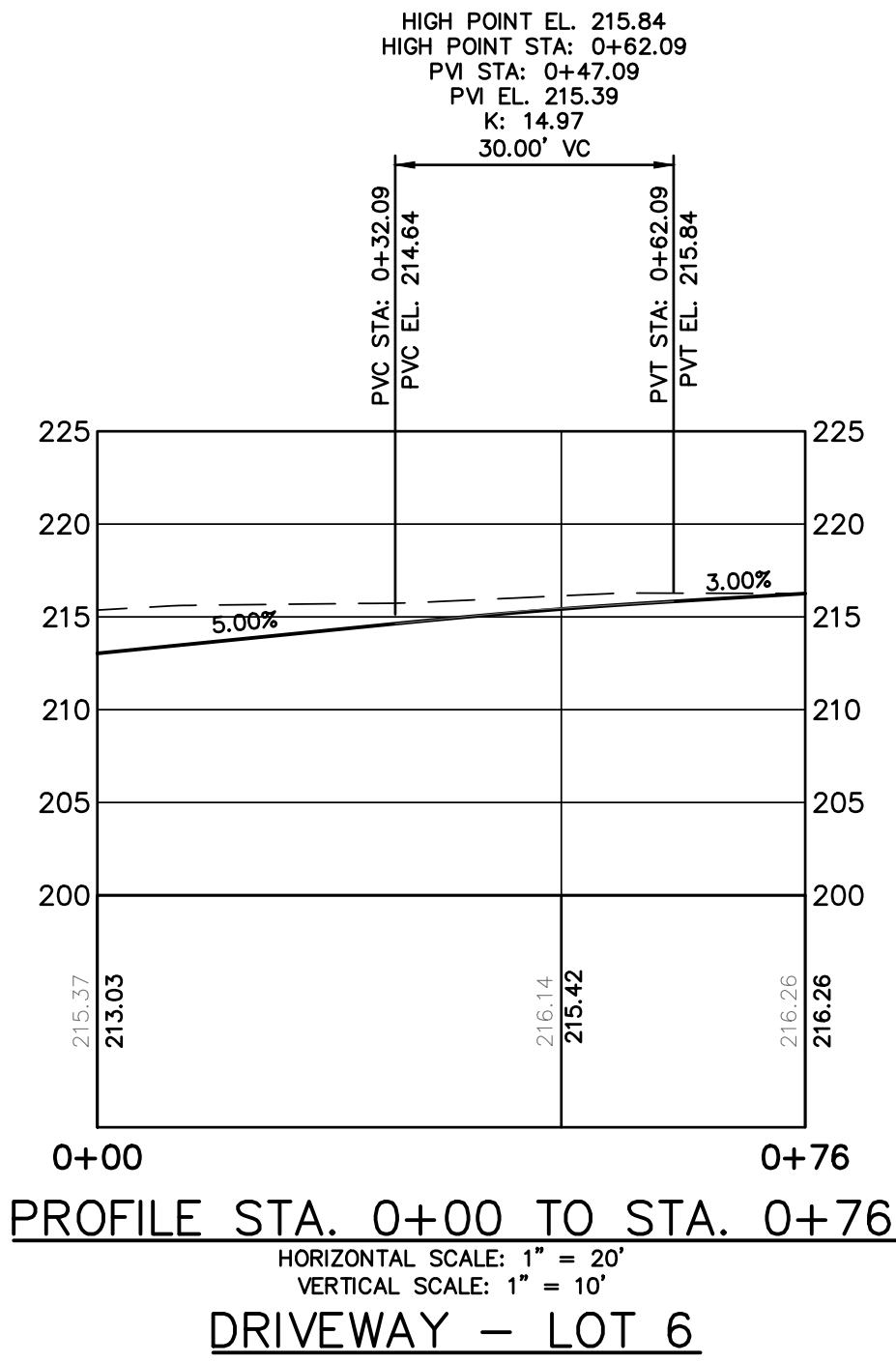
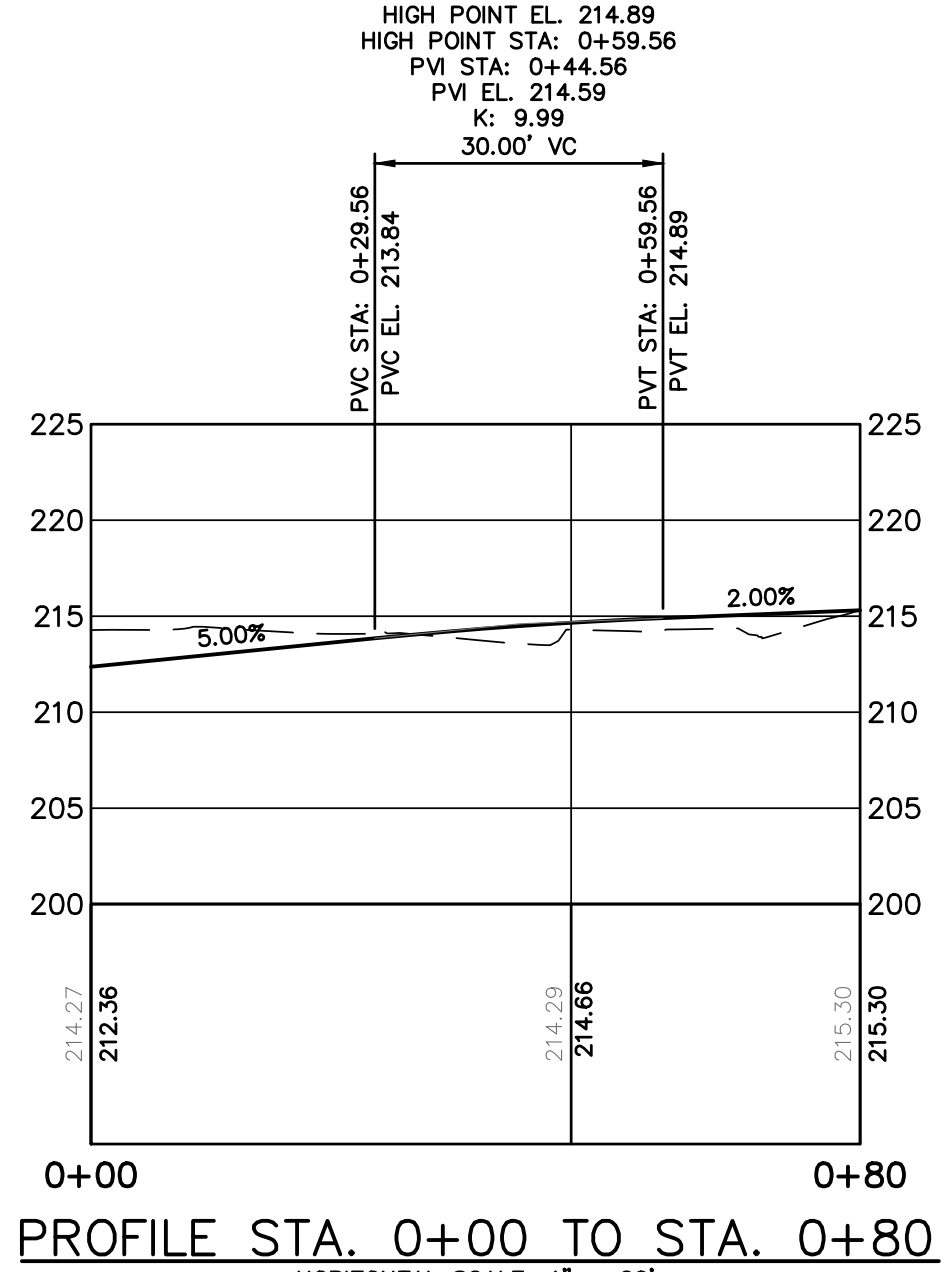
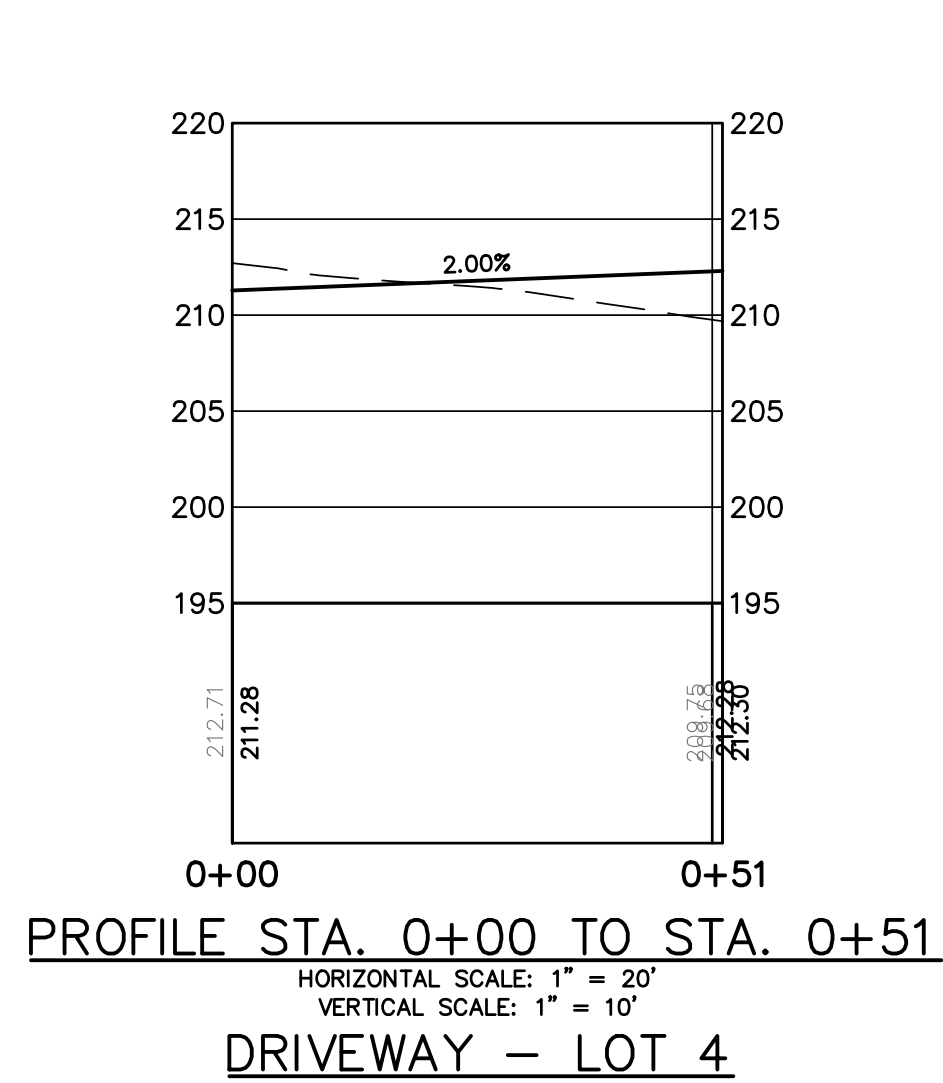
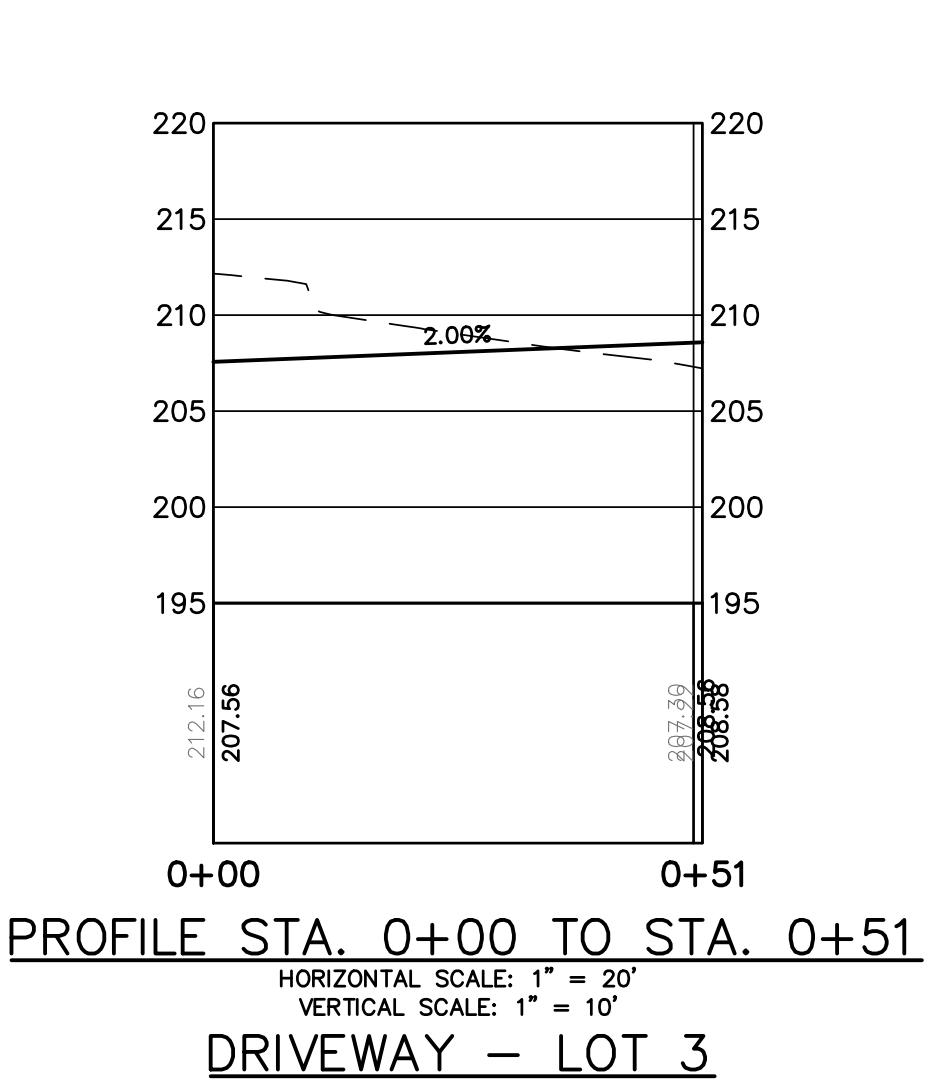
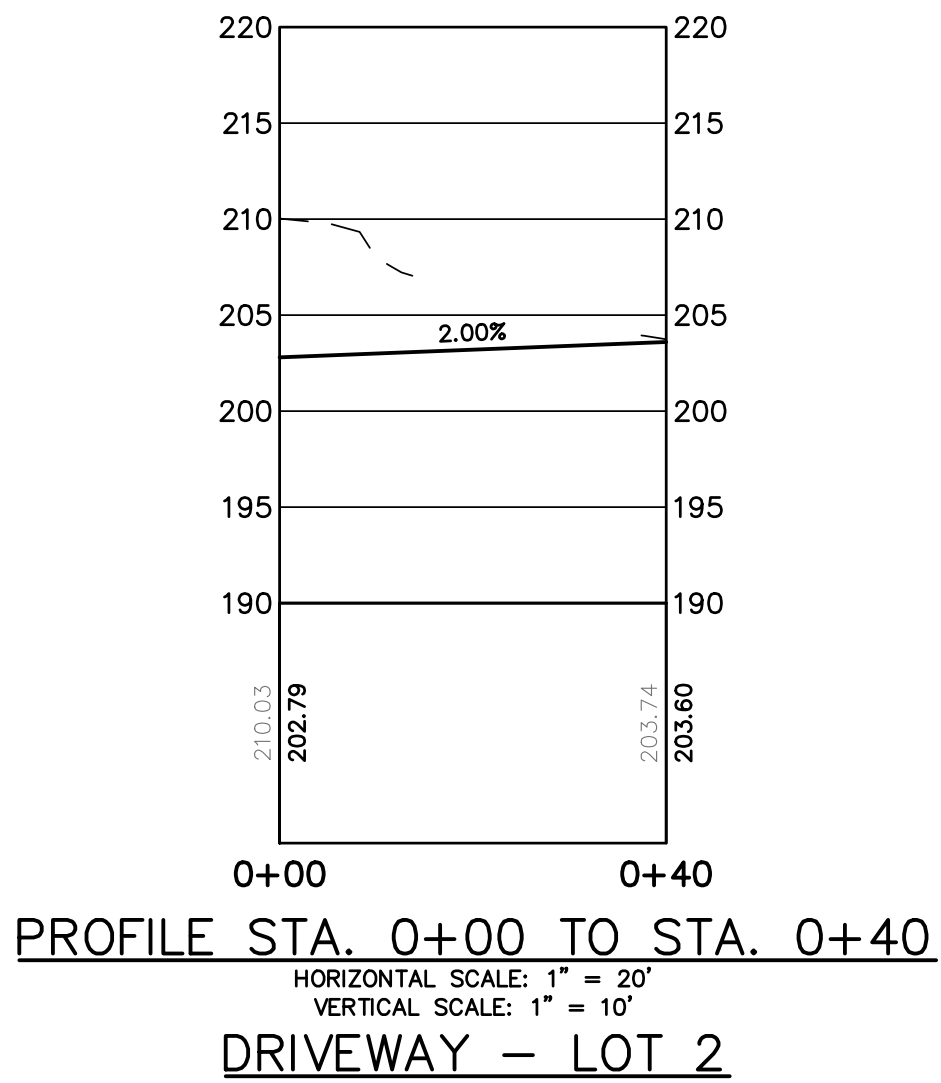
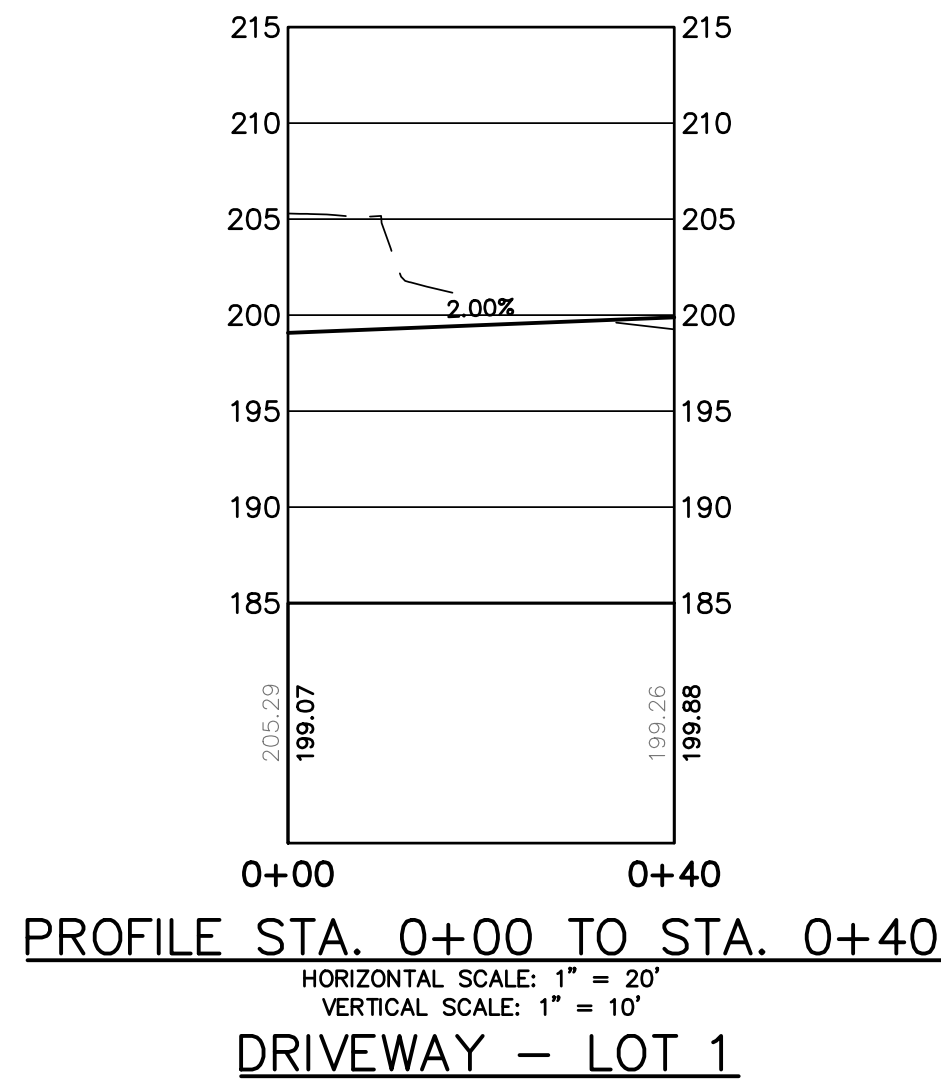
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PROJECT: PROPOSED 11-Lot SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK		
EROSION & SEDIMENT CONTROL PLAN (BUILDING CONSTRUCTION)		
HEC HUDSON ENGINEERING & CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-409-0420 F: 914-560-2086		Date: 1/3/23 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 15

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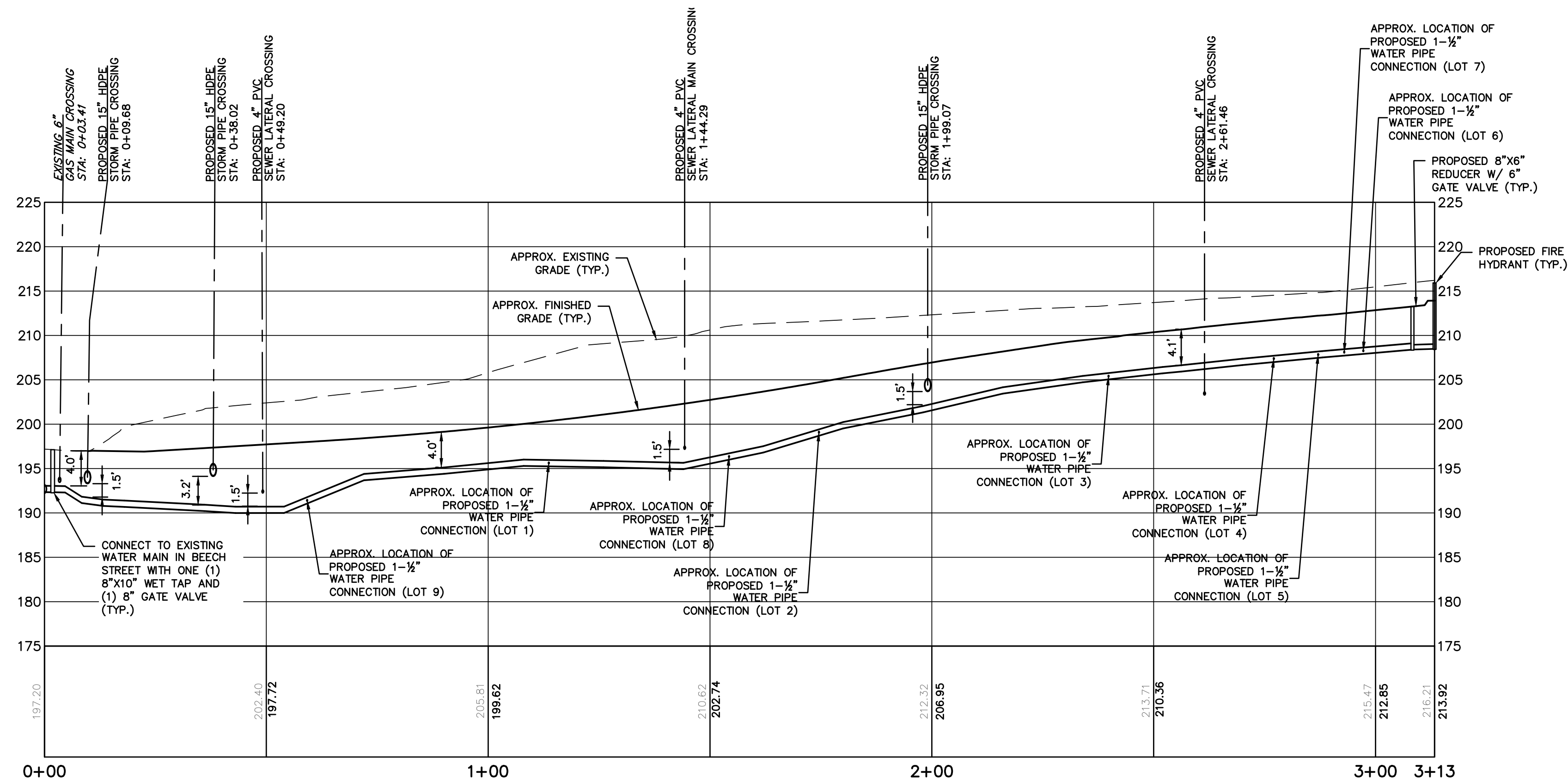
Revisions:
4. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE 5/7/23
3. REVISED PER TOWN COMMENTS 4/10/23
2. REVISED PER TOWN COMMENTS 3/9/23
1. REVISED SPECIFIC EROSION BOUNDARY 1/2/23

C-4B

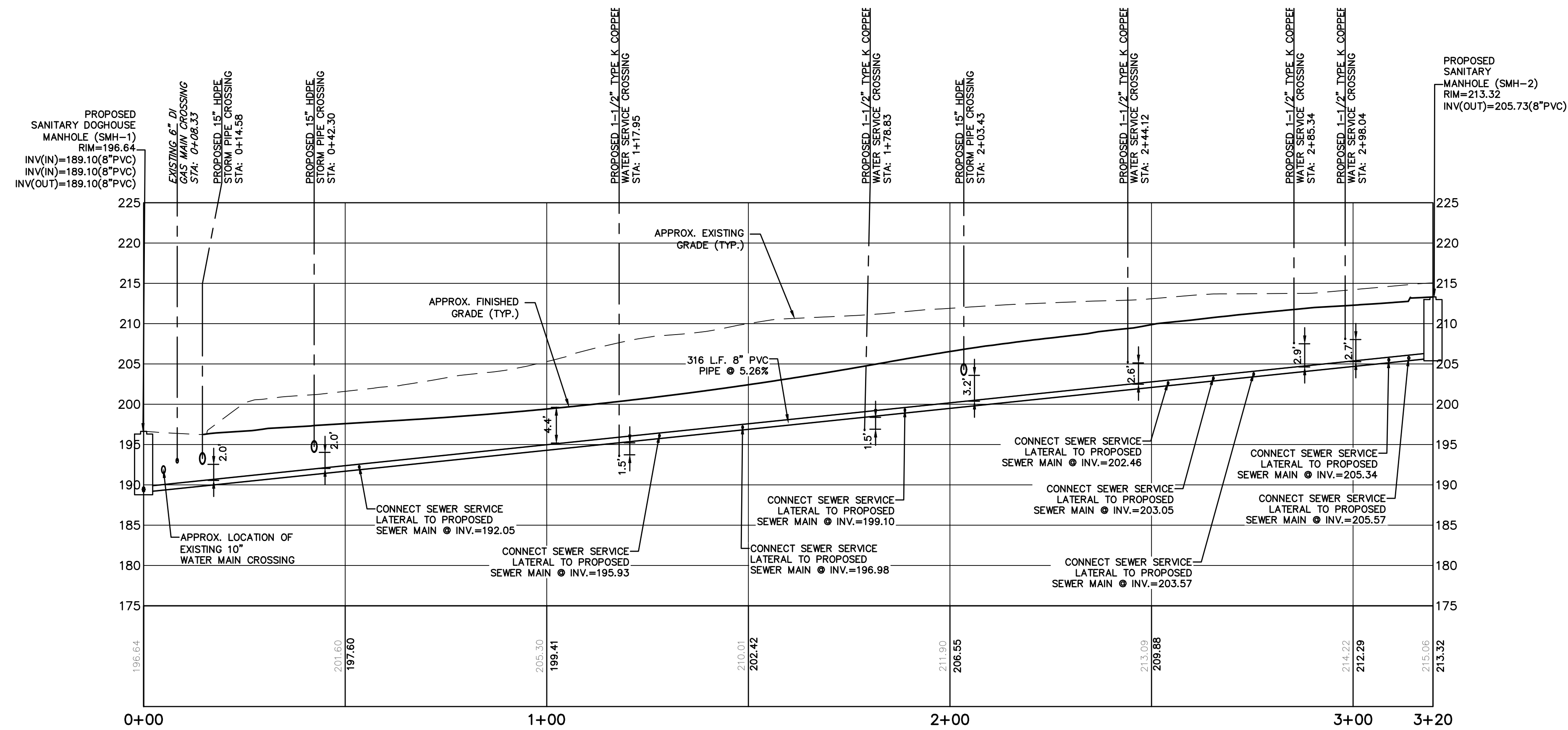


ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

4. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3. REVISED PER TOWN COMMENTS	4/10/23
2. REVISED PER TOWN COMMENTS	3/10/23
1. REVISED SCHOOL DISTRICT BOUNDARY	2/23/23
0. ORIGINAL	1/3/23
Revisions	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE	
PROJECT: PROPOSED 11-LOT SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK	
ROADWAY & DRIVEWAY PROFILES	
HEC ENGINEERING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086	
Date: 1/3/23 Sheet: 8 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 15	
C-5	



WATER MAIN PROFILE
(STA. 0+00 TO STA. 3+13)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



SANITARY SEWER PROFILE
(STA. 0+00 TO STA. 3+20)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

4. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3. REVISED PER TOWN COMMENTS	4/10/23
2. REVISED PER TOWN COMMENTS	3/16/23
1. REVISED PER TOWN COMMENTS	2/22/23
NO. REVISIONS	DATE

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PROJECT: PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

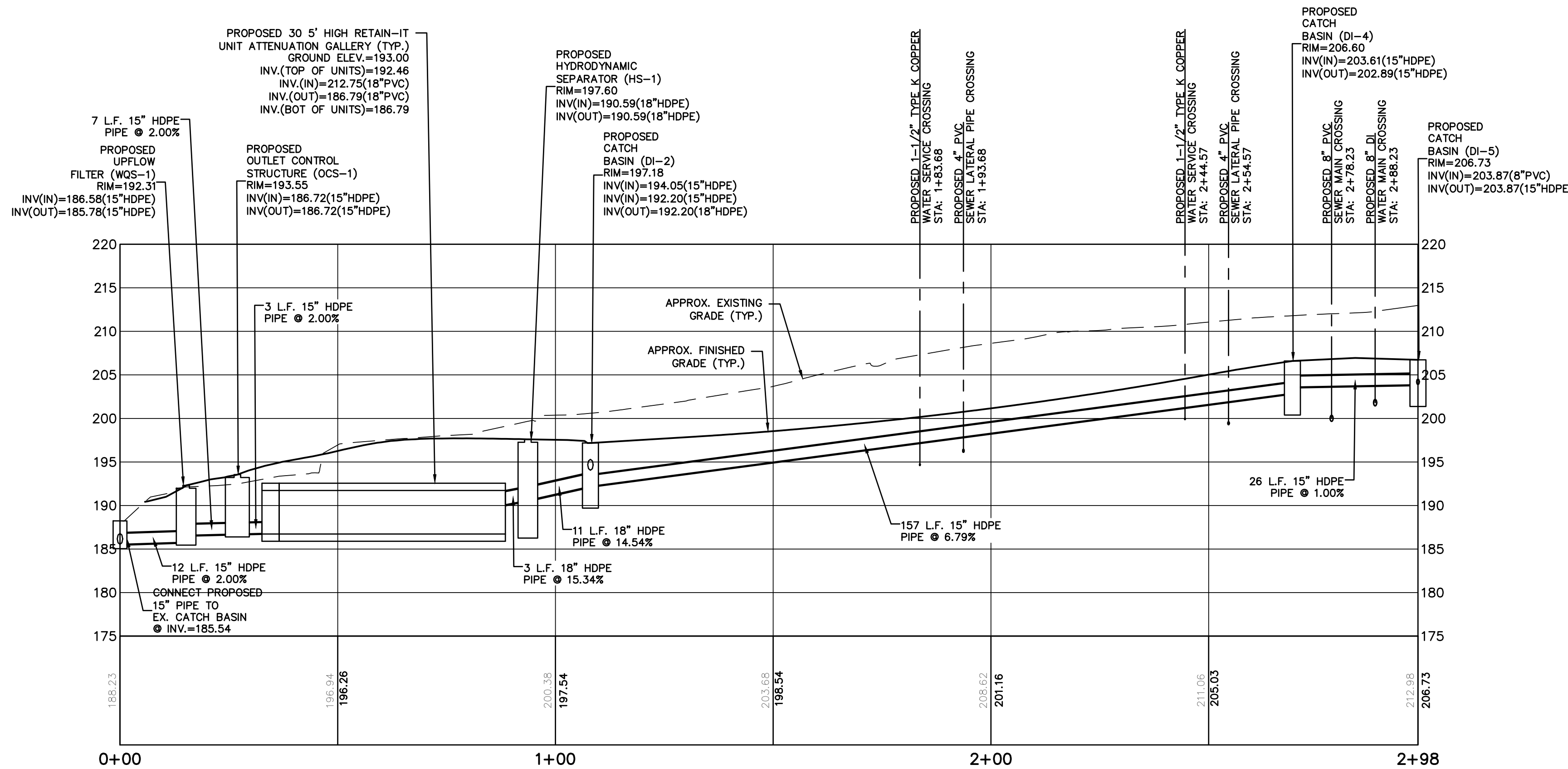
UTILITY PROFILES

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

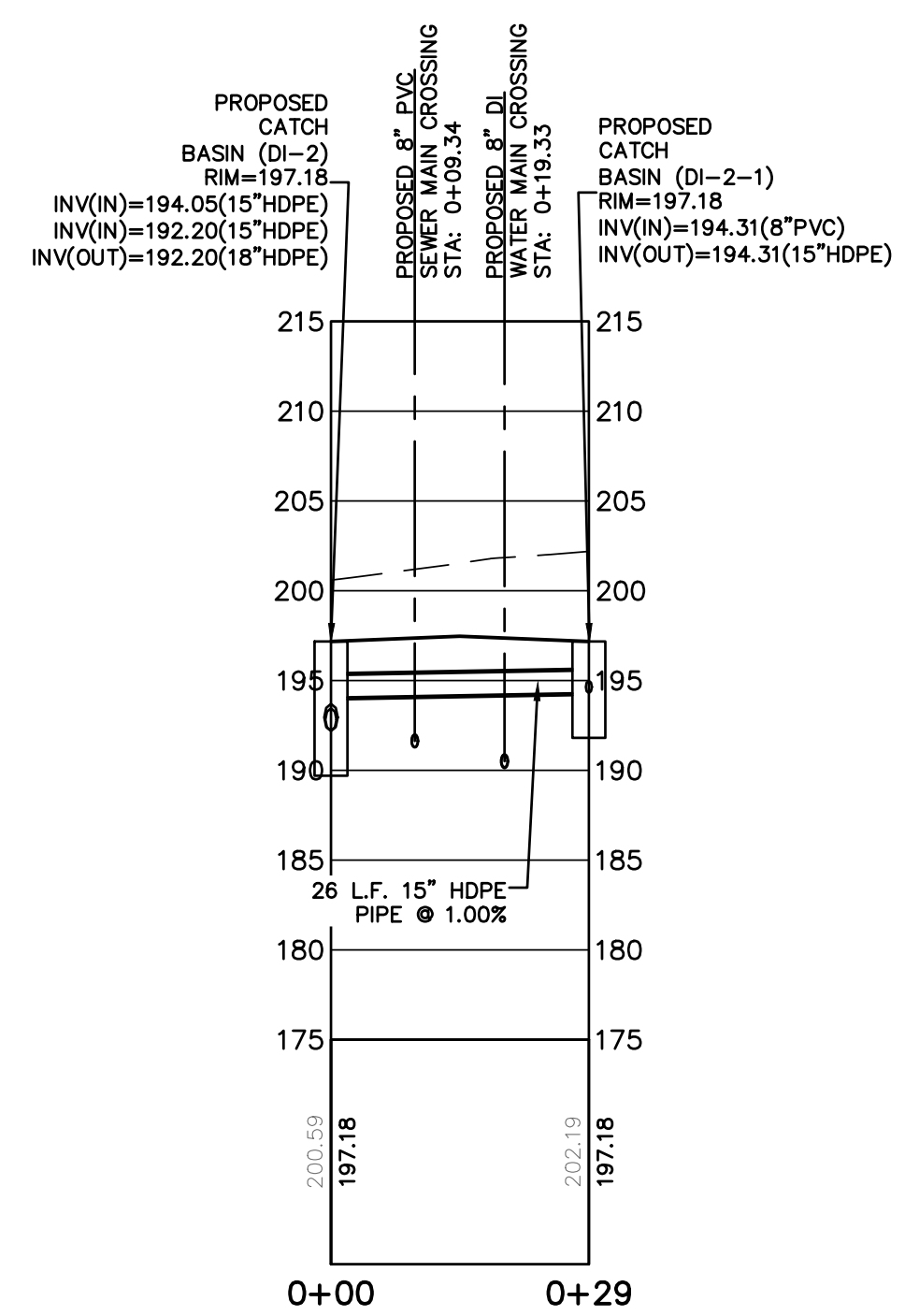
State of New York
MICHAEL F. STERN
No. 00657
LICENSED PROFESSIONAL ENGINEER

Date: 1/3/23 Sheet: 9
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. C-6

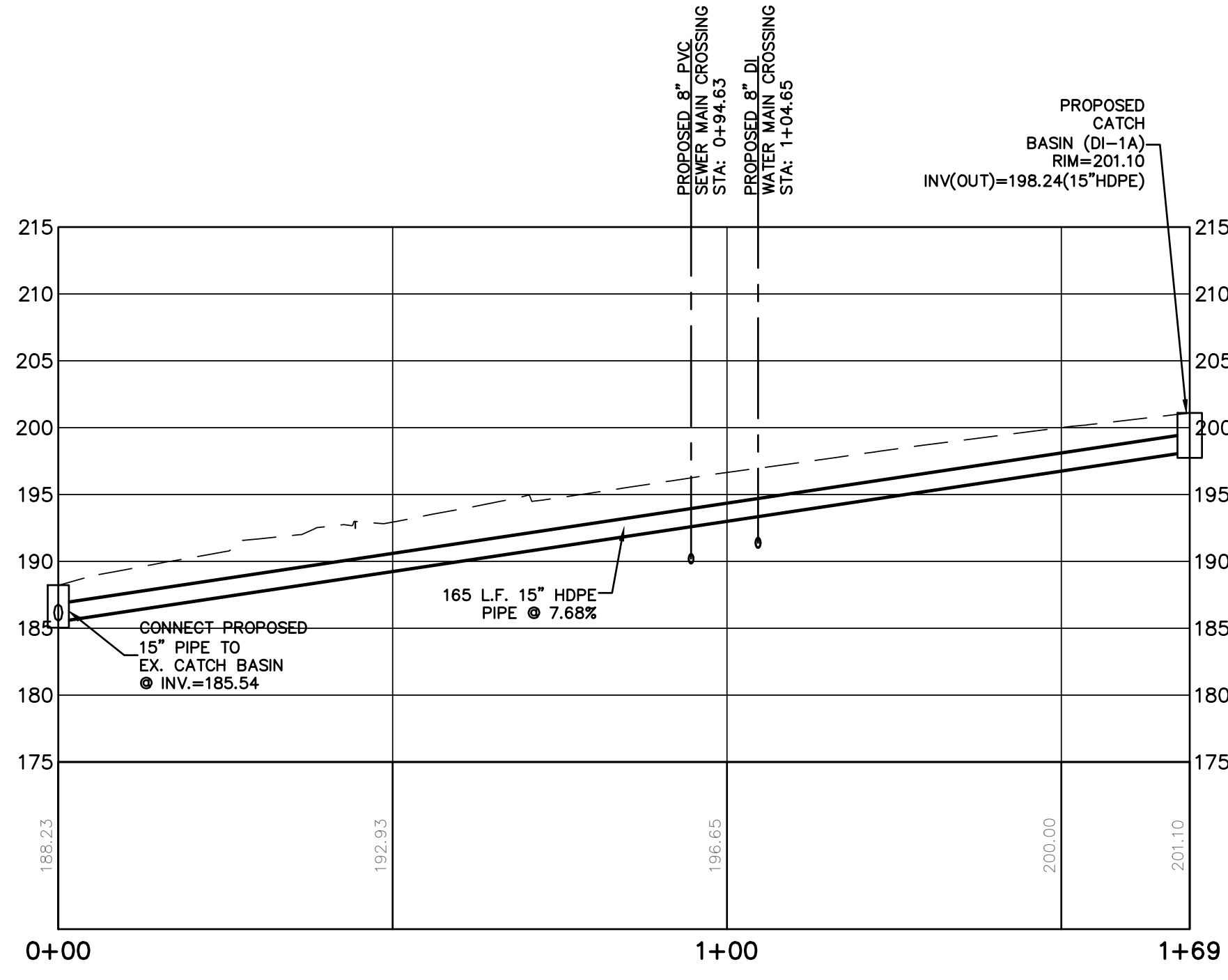
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STORMWATER PROFILE
(STA. 0+00 TO STA. 2+98)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(DI-5 TO EX. CATCH BASIN)



STORMWATER PROFILE
(STA. 0+00 TO STA. 0+29)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(DI-2-1 TO DI-2)



STORMWATER PROFILE
(STA. 0+00 TO STA. 1+69)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(DI-1A TO EX. CATCH BASIN)

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4. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3. REVISED PER TOWN COMMENTS	4/10/23
2. REVISED PER TOWN COMMENTS	3/9/23
1. REVISED SPOT ELEVATION BOUNDARY	2/23/23
0. ORIGINAL	1/10/23

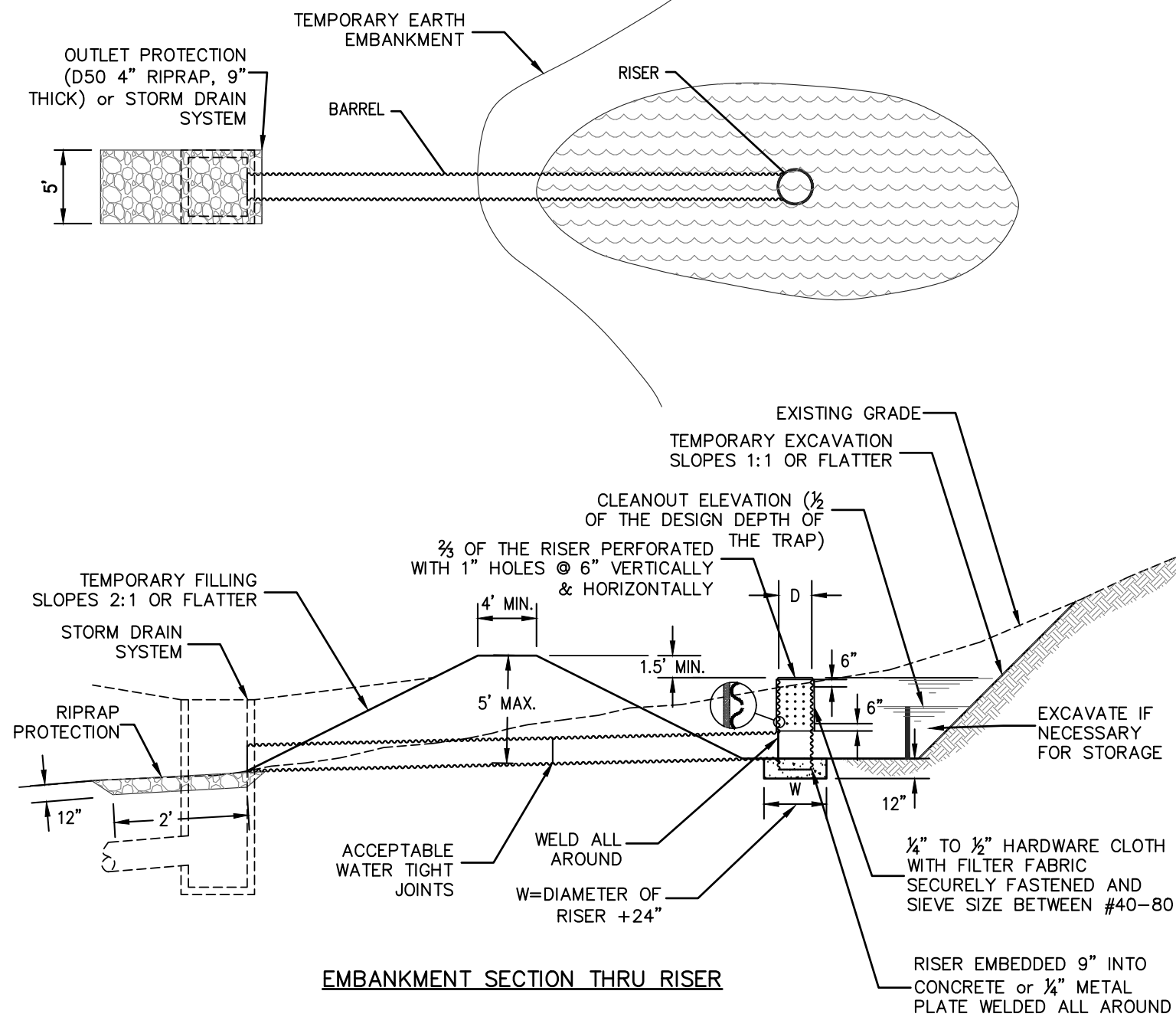
Revisions	Date
4.	5/7/23
3.	4/10/23
2.	3/9/23
1.	2/23/23
0.	1/10/23

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PROJECT: PROPOSED 11-Lot SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK	
STORMWATER PROFILES	
HEC ENGINEERING & CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2023	HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2023

Date:	1/3/23	Sheet:	10
Scale:	1" = 20'	Designed By:	D.C.
Checked By:	M.S.	Sheet No.	15

C-7



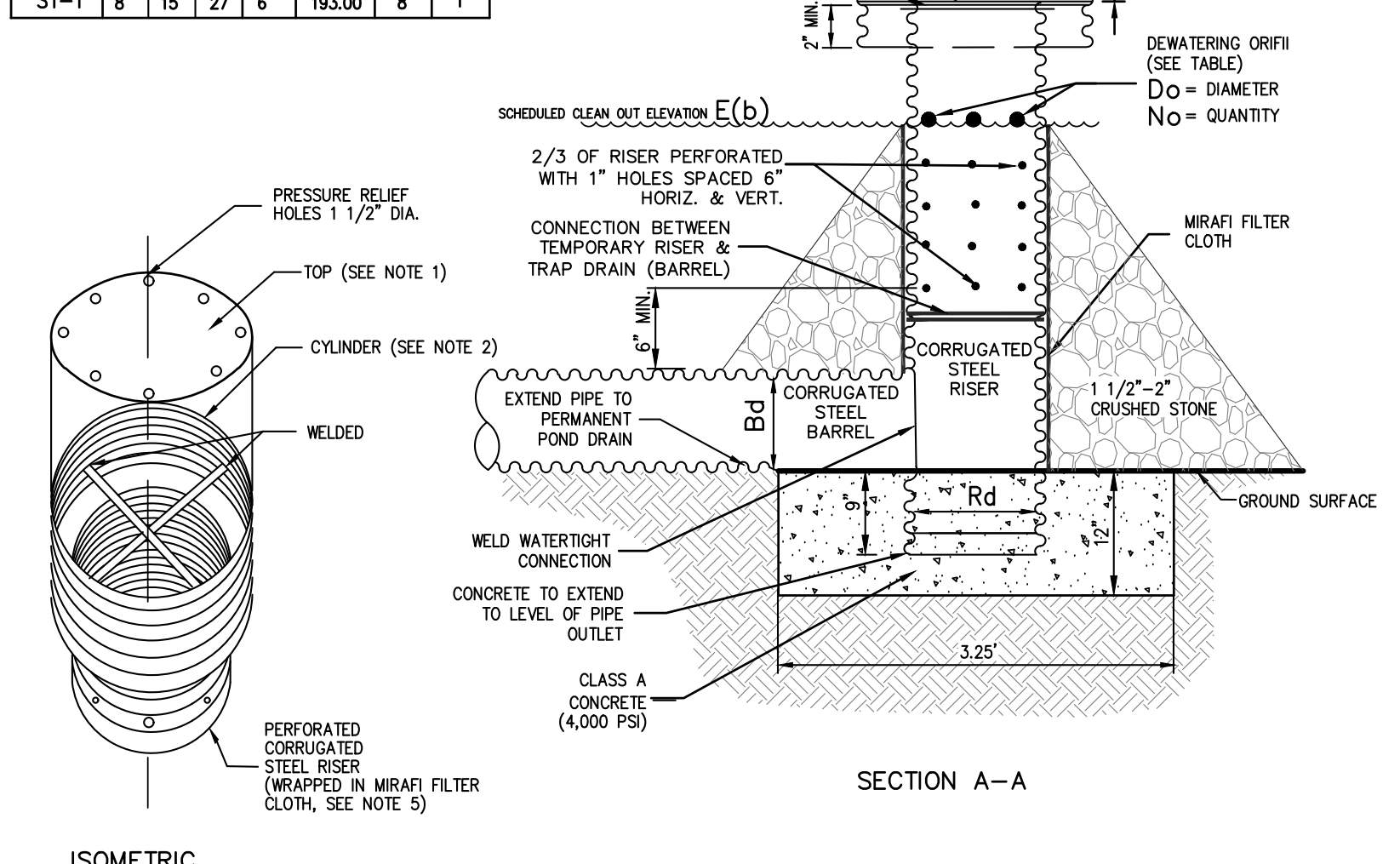
- NOTES:**
1. MAXIMUM DRAINAGE AREA 5 ACRES.
 2. SEDIMENT TRAP STORAGE IS BASED ON NYSDEC "STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL MEASURES", DATED AUGUST 2005 THAT REQUIRES THE SEDIMENT TRAP TO BE DESIGNED TO STORE 3,600 C.Y./ACRE OF TRIBUTARY AREA DISCHARGING TO THE PRACTICE.
 3. W = DIAMETER OF RISER + 24"
 4. FOR RISERS WITH A DIAMETER 15" & 18," THE NUMBER OF ORIFI BY ROW WILL BE 8. FOR RISER DIAMETERS 21", 24" & 27," THE NUMBER OF ORIFI WILL BE 12.
 5. SEE DETAIL 6 ON THIS SHEET FOR TEMPORARY RISER AND ANTI-VORTEX DEVICE DETAIL.

TRAP NUMBER	TYPE OF TRAP	DRAINAGE AREA (ACRES)	STORAGE REQUIRED (CF)	STORAGE PROVIDED (CF)	OUTLET IN/BAREL 1/2" OF BOTTOM STORAGE INVERT	ELEVATIONS (L.F.)	TOP OF DRAINAGE	TOP OF TRAP	TOP OF DRAINAGE
1	ST-I	1.38	4,968*	6,327	191.00	191.00	193.00	195.00	196.00

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

PIPE OUTLET SEDIMENT TRAP (NYSDEC ST-I)

TRAP	Bd	Rd	Td	Th	E(b)	No	Do
ST-I	8	15	27	6	193.00	8	1



- NOTES:**
1. TOP SHALL BE 12 GAGE CORRUGATED STEEL OR 1/8" STEEL PLATE.
 2. CYLINDER SHALL BE 14 GAGE CORRUGATED STEEL PIPE OR FABRICATED FROM 1/8" STEEL PLATE. THE CYLINDER SHALL BE FIRMLY FASTENED TO THE TOP OF THE RISER.
 3. SUPPORT BARS SHALL BE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO THE TOP OF THE RISER.
 4. TEMPORARY RISER AND ANTI-VORTEX DEVICE SHALL BE REMOVED UPON COMPLETION OF PAVEMENT OR NYSDEC ROADWAY SUBGRADE MATERIAL AND ESTABLISHMENT OF SEEDING AREAS.
 5. RISER TO BE PERFORATED WITH 1" HOLES SPACED 6" HORIZ. AND VERT. AND LOCATED IN CONCAVE PORTION OF CORRUGATIONS. PERFORATIONS SHALL NOT EXTEND BELOW INVERT ELEVATIONS OF OUTLET PIPE. WRAP RISER IN MIRAFI FILTER CLOTH AND SURROUND RISER WITH 1 1/2" -2" SIZE CRUSHED STONE.

TEMPORARY RISER AND ANTI-VORTEX DEVICE

CONSTRUCTION SPECIFICATIONS

1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. 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 TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT THE CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, OUT SLOPES 1:1 OR FLATTER.
4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF EMBANKMENT.
5. 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 WIER CREST.
6. 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.
7. 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.
8. 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.
9. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
12. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES OR LESS.

SEDIMENT TRAP I			
ELEVATION	AREA	VOLUME*	VOL. SUM*
(ft.)	(sq. ft)	(cu. ft.)	(cu. ft.)
191	1580		0
192	1920	1747	1,747
193	2286	2100	3,848
194	2677	2479	6,327
		Total Volume	6,327

*Volume Formula (Conical Frustum): $\frac{1}{3}\pi(A1 + A2 + \sqrt{A1(A2)})$

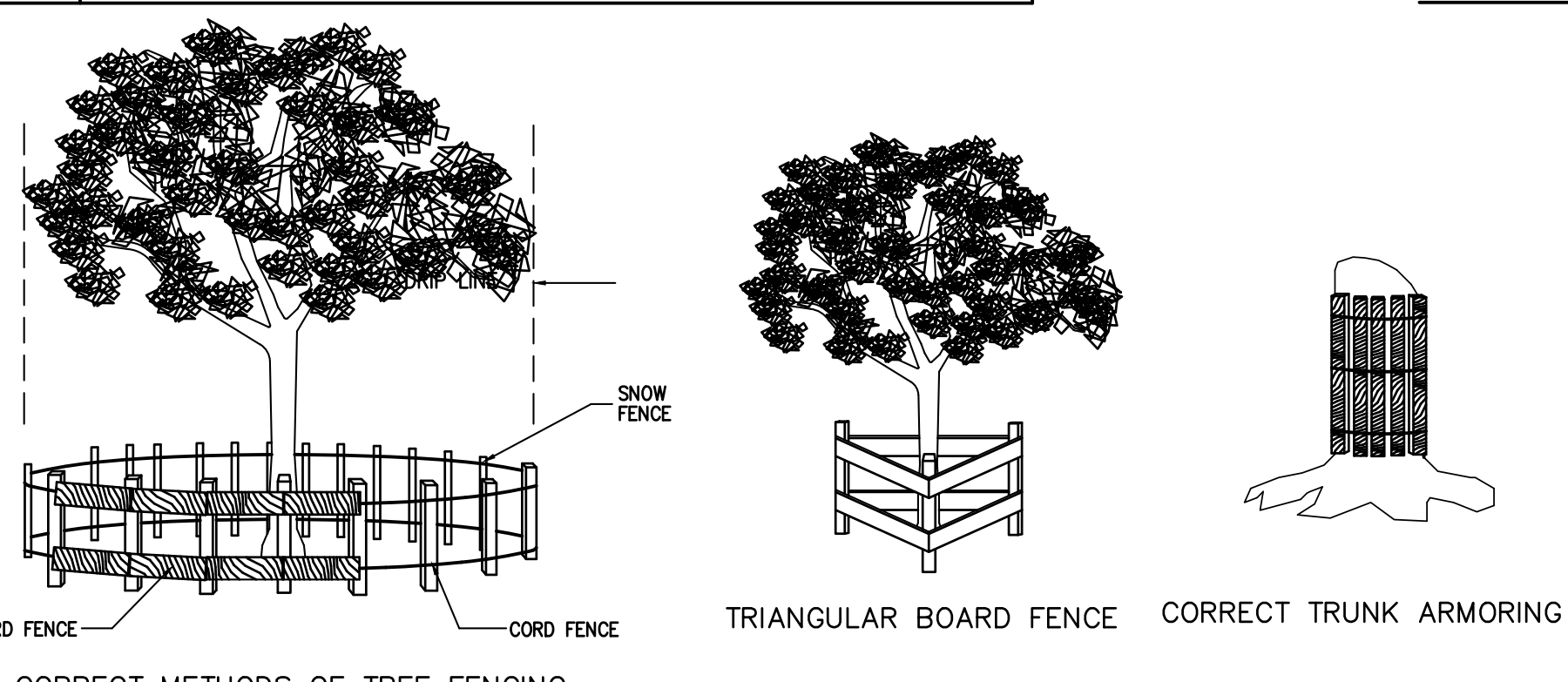
Where: h=height
A1=area of base elevation
A2=area of top elevation

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 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-1 OCTOBER 20TH) PLANTING SEASON OR COVERING THE STOCKPILE WITH TARPAULIN 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 1/2" 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 1/2" 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 1/2" 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 MOISTENING 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 C 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.

SCHEDULE OF PERMANENT EROSION CONTROL MEASURES:

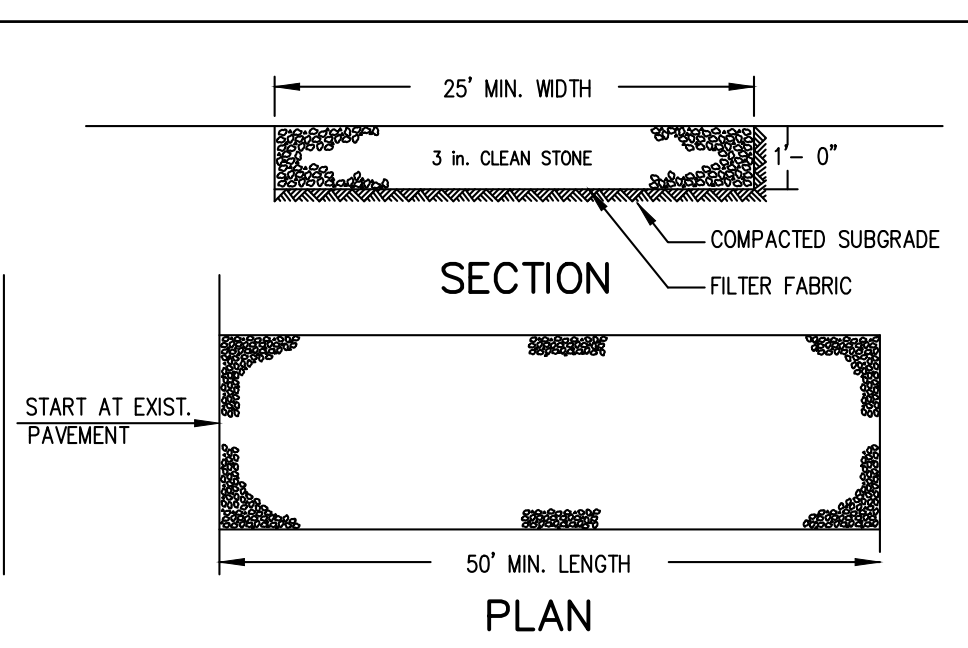
MEASURE	DATES FOR USE	TIMING, ACTIVITY, AND LOCATION
RIP RAP PROTECTION	ALL	INSTALL RIP RAP IMMEDIATELY FOLLOWING CULVERT INSTALLATION OR FINAL CHANNEL GRADING AT LOCATIONS SHOWN ON PLANS.
PAVEMENT - BASE COURSE/FINAL COURSE	WHEN OUTSIDE AMBIENT TEMP. IS ABOVE 40°F	INSTALL ONLY IN AREAS SHOWN ON THE PLAN, SHORTLY AFTER PAVEMENT BASE IS BROUGHT TO FINAL GRADE. INSTALL NEAR COMPLETION OF PROJECT.
PERMANENT SEEDING	APRIL 15 TO SEPT. 15	ON FINAL GRADE AREAS, WITHIN 10 DAYS OF FINAL GRADE PREPARATION, PREPARE TOPSOIL, FOLLOWED WITH SEEDING AND MULCH APPLICATION. PERMANENT VEGETATION MUST BE SEED OR SOODED ON ALL EXPOSED AREAS. MULCH MUST BE USED AS NECESSARY FOR PROTECTION, UNTIL SEEDING IS ESTABLISHED. SEED THE AREA WITH CREEPING RED FESCUE (ENSYLVA, PENNLAWN, BOREAL) AT A RATE OF 10 LBS. PER ACRE (0.25 LB./1000 SQ. FT.), AND PERENNIAL RYEGRASS (PENNFINE, LINN) AT A RATE OF 10 LBS. PER ACRE (0.25 LB./1000 SQ. FT.)
DORMANT SEEDING	SEPT. 16 TO APRIL 15	ON FINAL GRADE AREAS, WITH PREPARED TOPSOIL, APPLY SEED AT DOUBLE THE SPECIFIED RATE, ON BARE SOIL, AND FOLLOW WITH AN APPLICATION OF WINTER MULCH. SEED THE AREA WITH CREEPING RED FESCUE (ENSYLVA, PENNLAWN, BOREAL) AT A RATE OF 10 LBS. PER ACRE (0.25 LB./1000 SQ. FT.), AND PERENNIAL RYEGRASS (PENNFINE, LINN) AT A RATE OF 10 LBS. PER ACRE (0.25 LB./1000 SQ. FT.)
GROUND COVER, TREES, SHRUBS	APRIL 15 TO NOV. 1	INSTALL WITH FINAL LANDSCAPING.
PERMANENT MULCH	ALL	INSTALL WITH FINAL LANDSCAPING.



CORRECT METHODS OF TREE FENCING

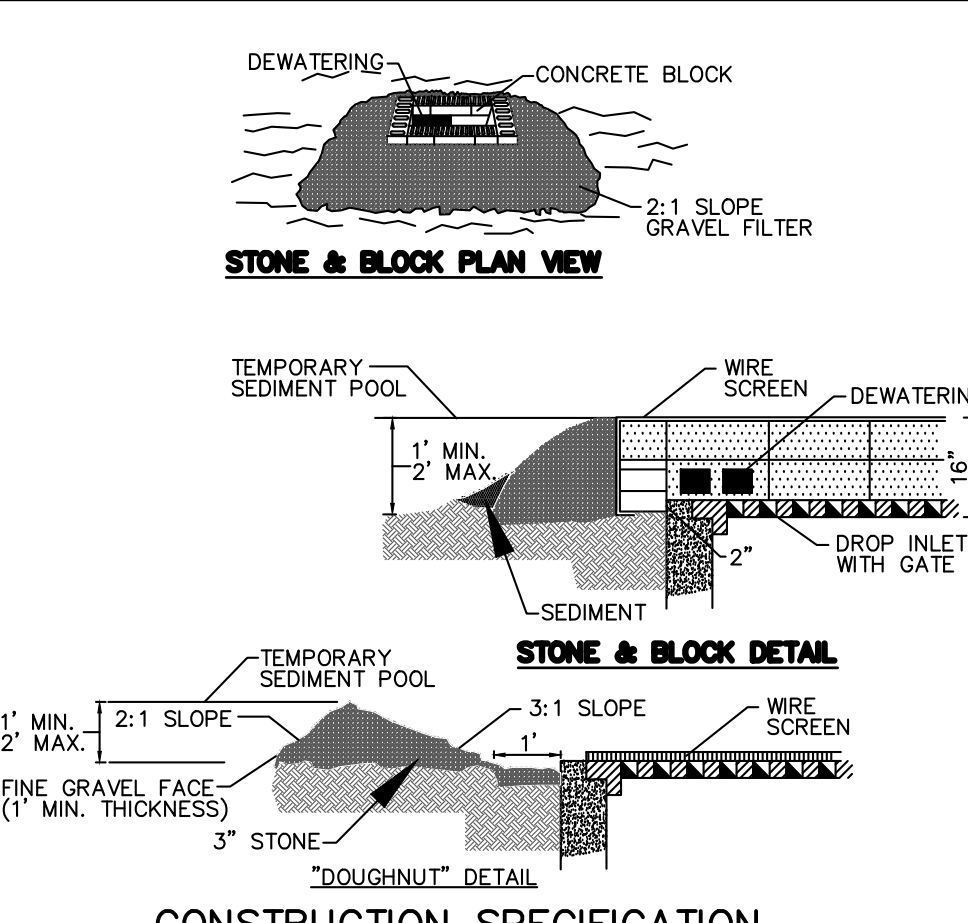
FENCING AND ARMORING

Stabilized Construction Entrance



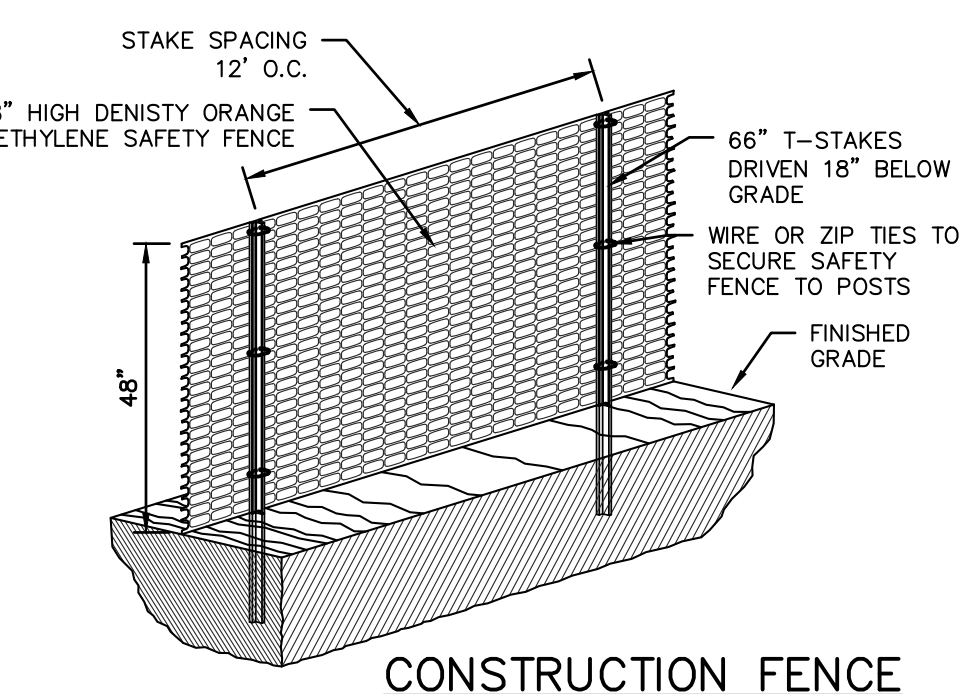
- INSTALLATION NOTES:**
1. STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - 25 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OF STONE IS REQUIRED.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE 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.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

Stone & Block Drop Inlet Protection



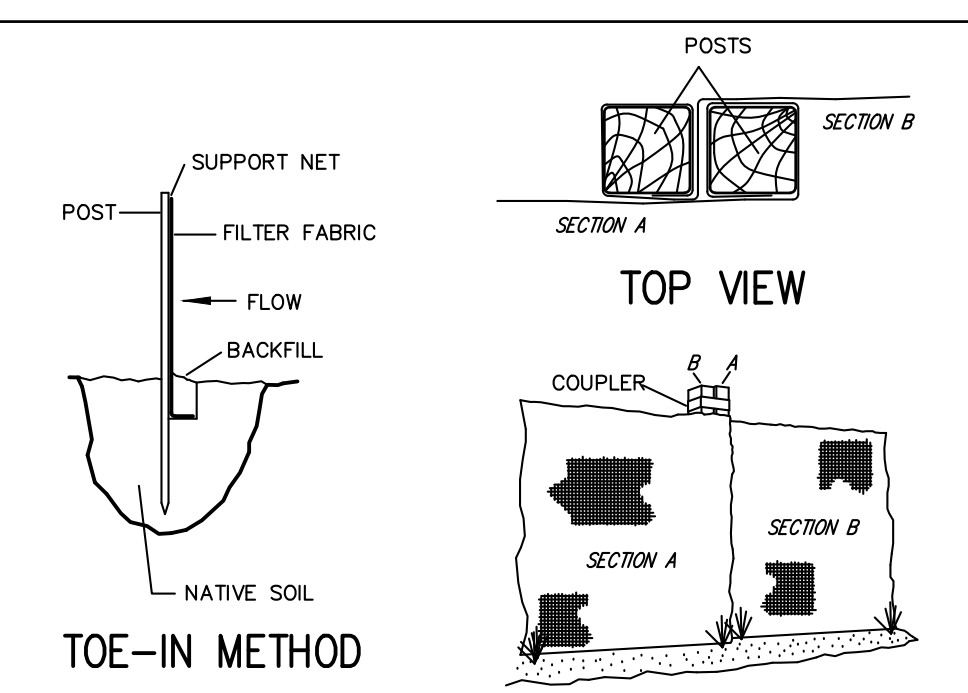
CONSTRUCTION SPECIFICATION

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" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. 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.
4. 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.



CONSTRUCTION FENCE

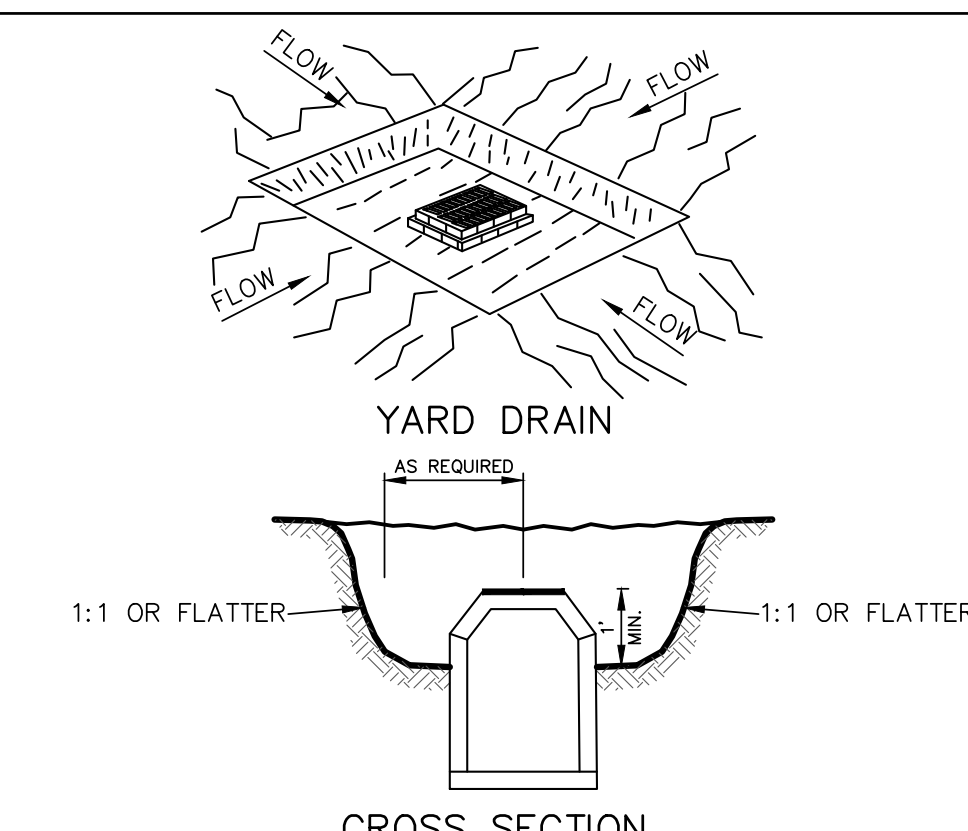
Silt Fence



JOINING SECTIONS OF FENCING

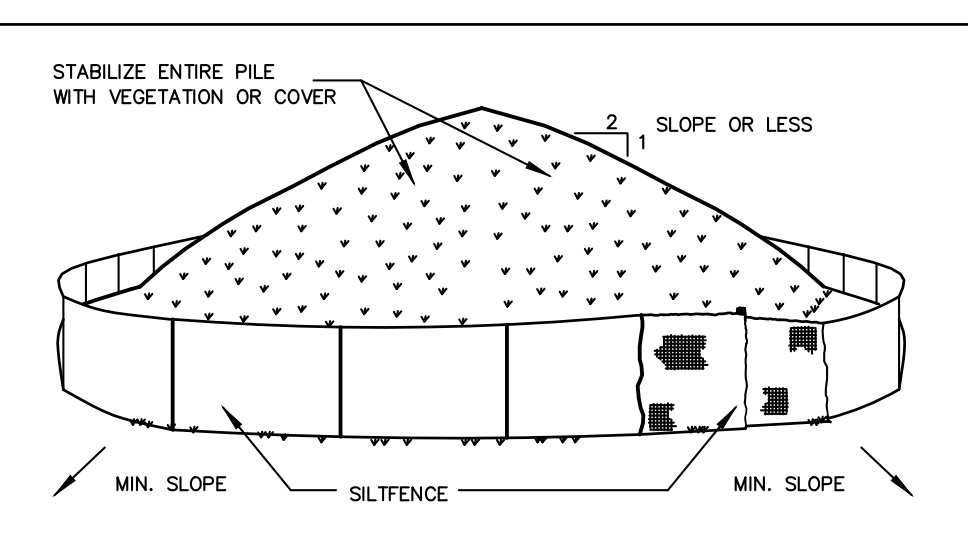
- INSTALLATION NOTES:**
1. EXCAVATE A 4 INCH * 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY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

Catch Basin Sediment Trap (ST-III)



- CONSTRUCTION SPECIFICATIONS:**
1. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
 2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
 3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
 4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
 5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
 6. ALL OUT SLOPES SHALL BE 1:1 OR FLATTER. MAXIMUM DRAINAGE AREA = 3-ACRES.

Soil Stockpiling



INSTALLATION NOTES

- 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 SEEDDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.
 6. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

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 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

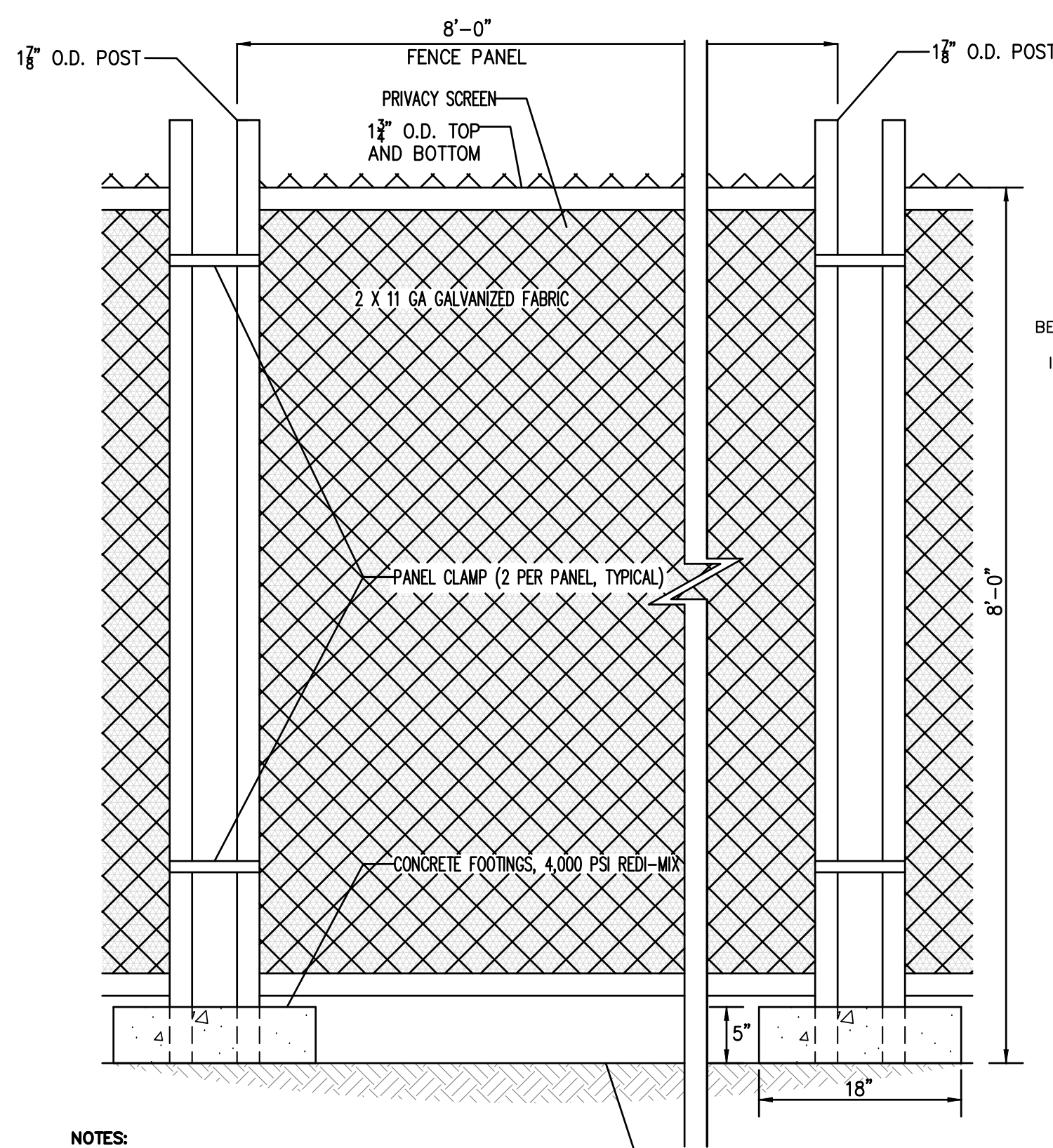
SITE DETAILS

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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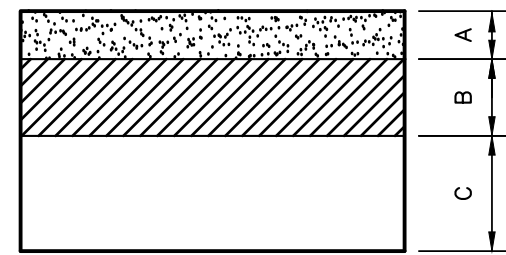
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Checked By: M.S.
Sheet No.

C-8



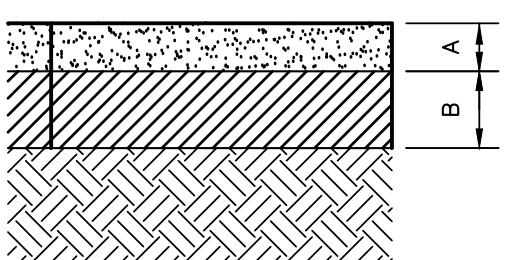
- NOTES:**
- CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
 - CONTRACTOR SHALL INSTALL GREEN PRIVACY SCREENING FABRIC OR APPROVED EQUAL AROUND THE PERIMETER OF THE TEMPORARY CONSTRUCTION FENCING.
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES OF THE PRIVACY SCREENING TO THE ENGINEER FOR REVIEW AND APPROVAL.

TEMPORARY CHAIN LINK CONSTRUCTION FENCE



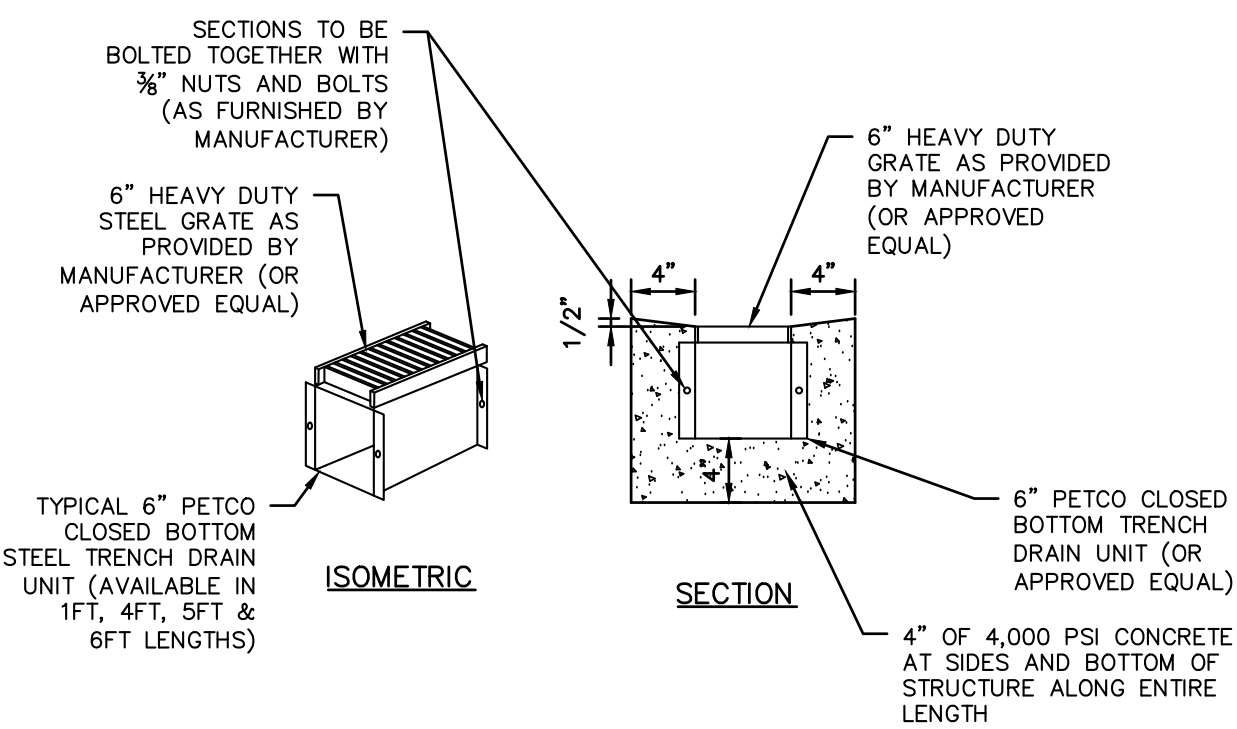
- A- 2" TOP COURSE- N.Y.S.D.O.T. ITEM, 403.1701, TYPE 7
B- 4" BINDER COURSE- N.Y.S.D.O.T. ITEM, 403.13, TYPE 3
C- 8" SUBBASE COURSE- N.Y.S.D.O.T. TYPE 2

ROADWAY PAVEMENT SECTION

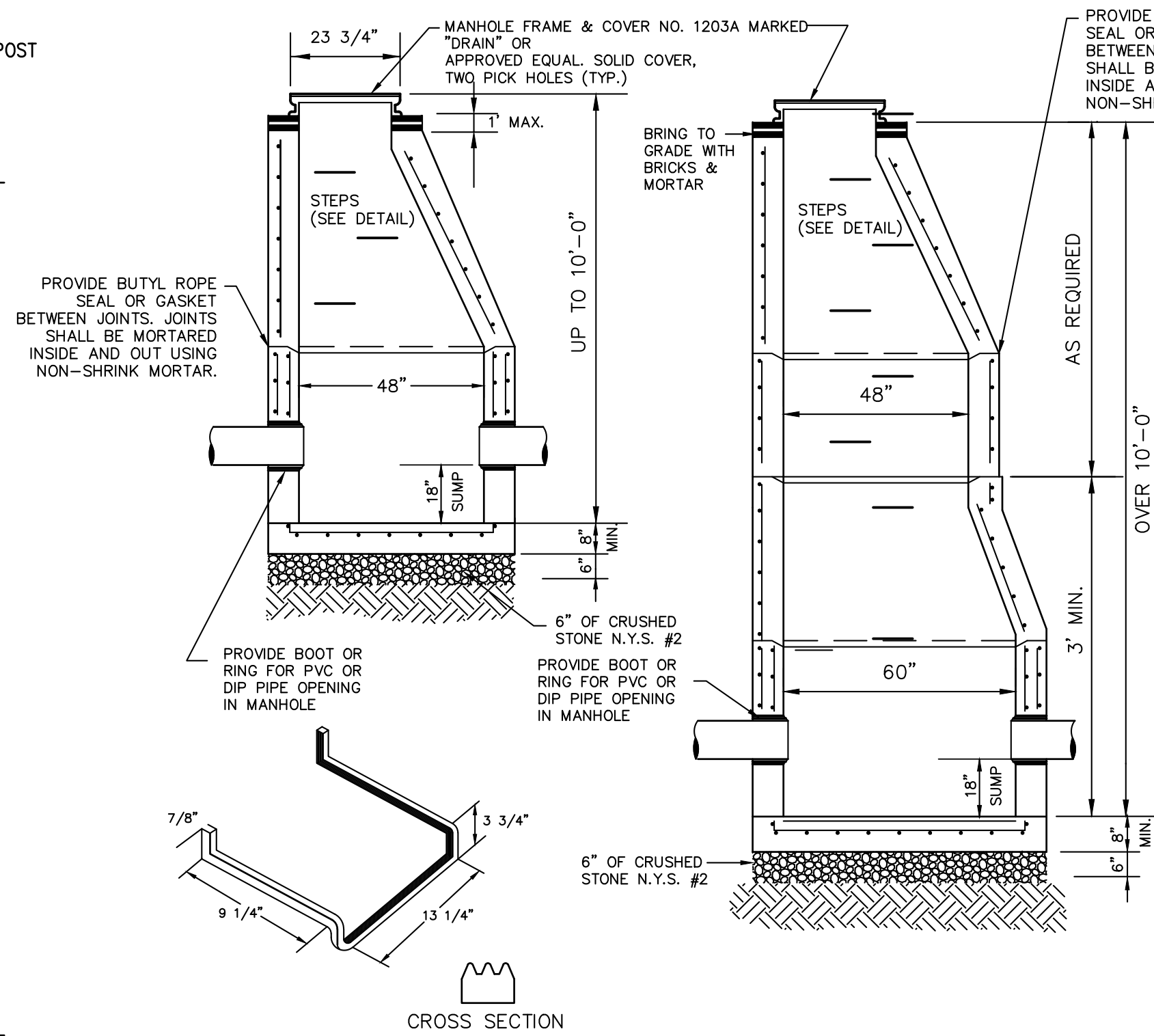


- A- 3" TOP COURSE- N.Y.S.D.O.T. ITEM, 403.178202, TYPE 6 F2
B- 6" SUBBASE COURSE- N.Y.S.D.O.T. ITEM, 304.12, TYPE 2

DRIVEWAY PAVEMENT SECTION



STEEL TRENCH DRAIN

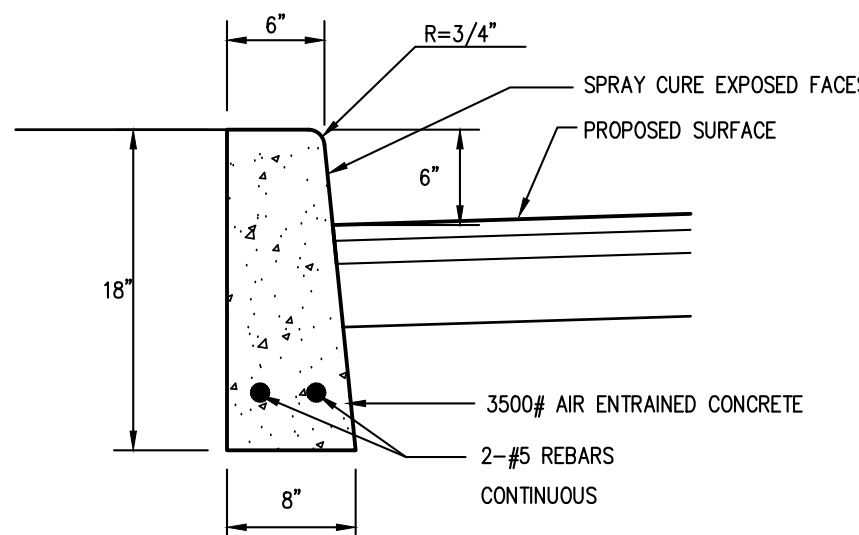


STEP DETAIL

NOTES:

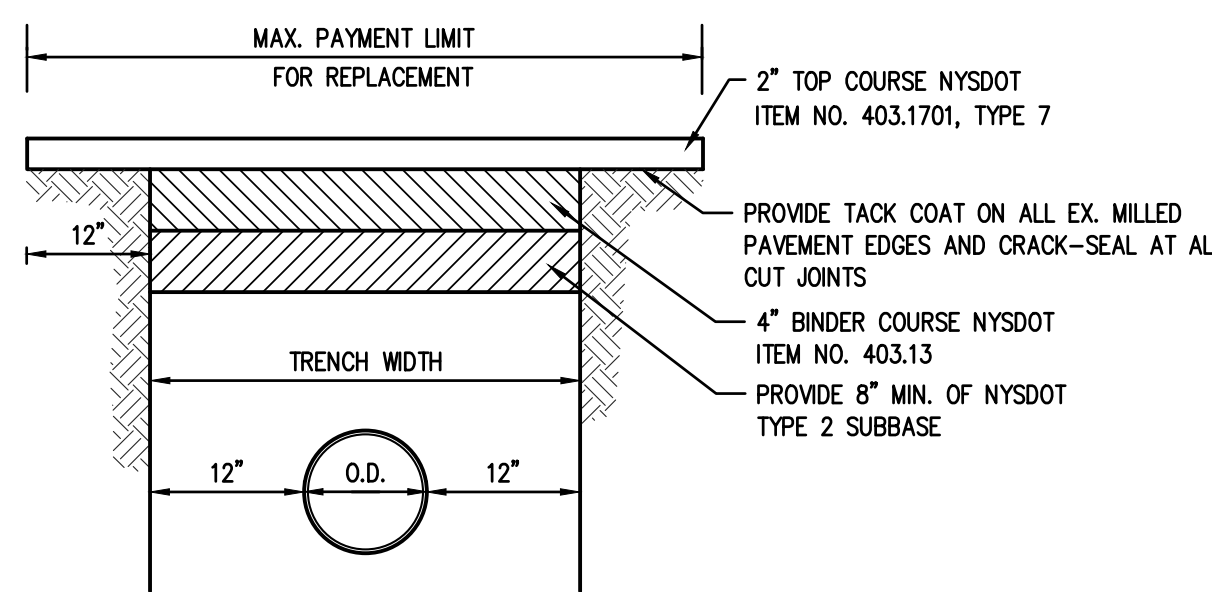
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- CONTRACTOR SHALL INSTALL GREEN PRIVACY SCREENING FABRIC OR APPROVED EQUAL AROUND THE PERIMETER OF THE TEMPORARY CONSTRUCTION FENCING.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SAMPLES OF THE PRIVACY SCREENING TO THE ENGINEER FOR REVIEW AND APPROVAL.

PRECAST CONCRETE DRAIN MANHOLE

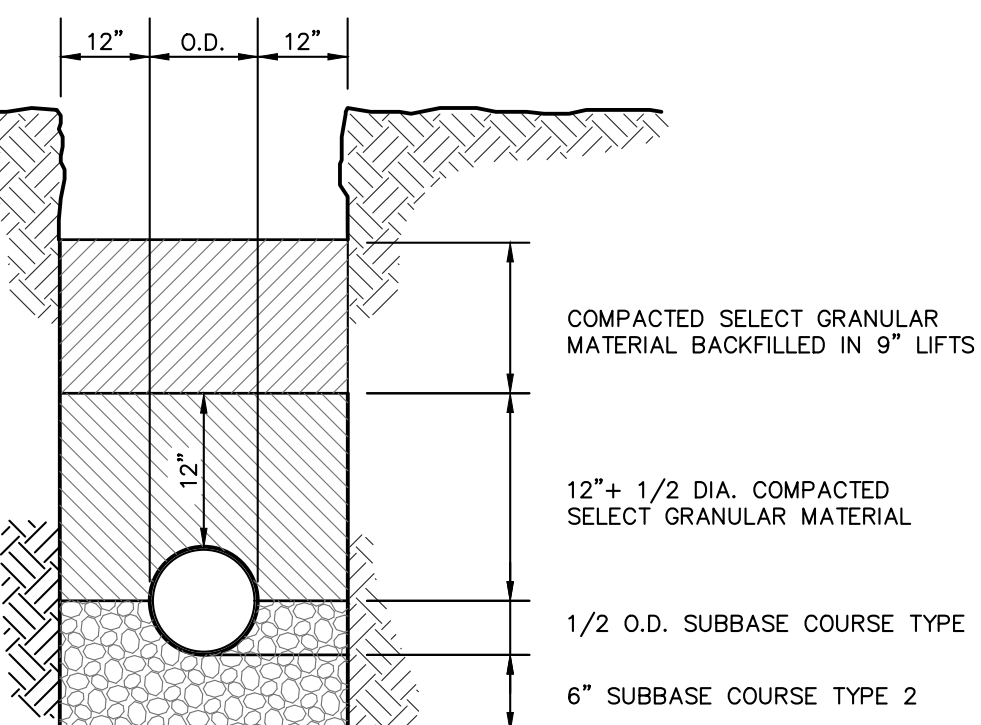


NOTE:
EXPANSION JOINTS TO BE INSTALLED EVERY 10 FEET.

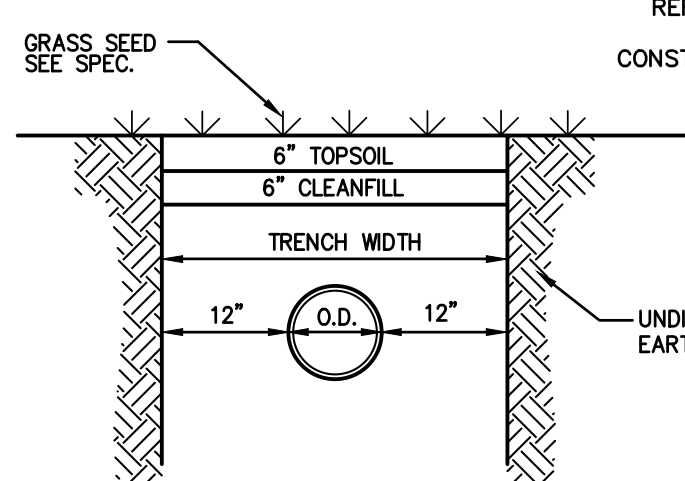
CONCRETE CURB



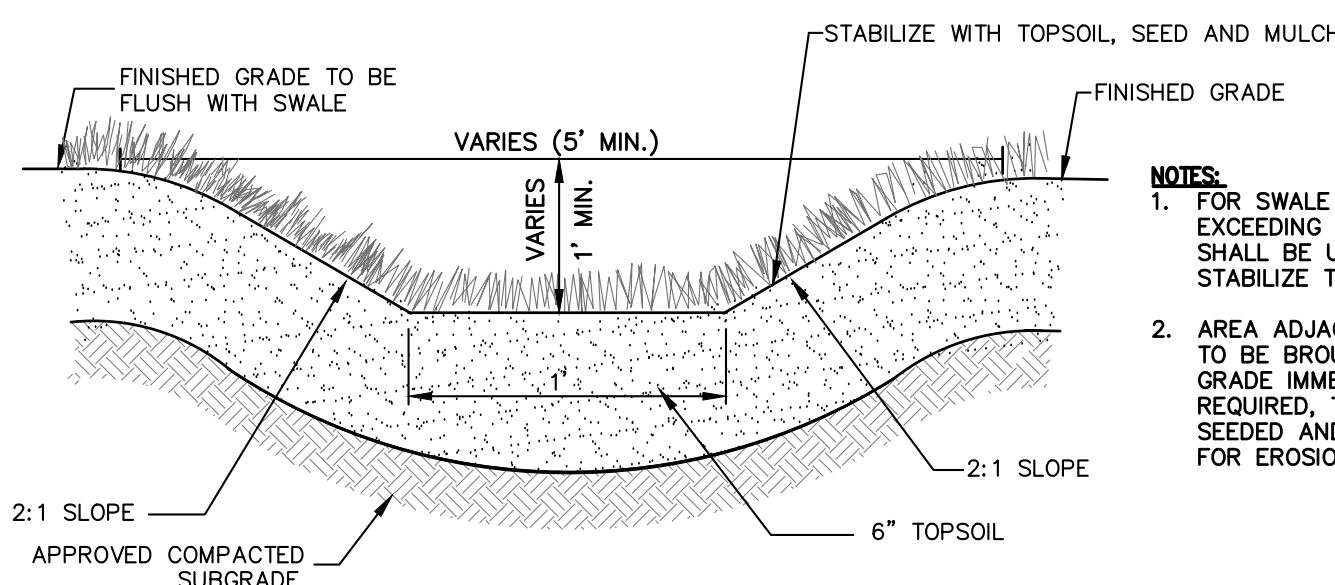
ASPHALTIC MACADAM PAVEMENT REPLACEMENT (N.T.S.)



TRENCH BEDDING



SHOULDER RESTORATION (N.T.S.)

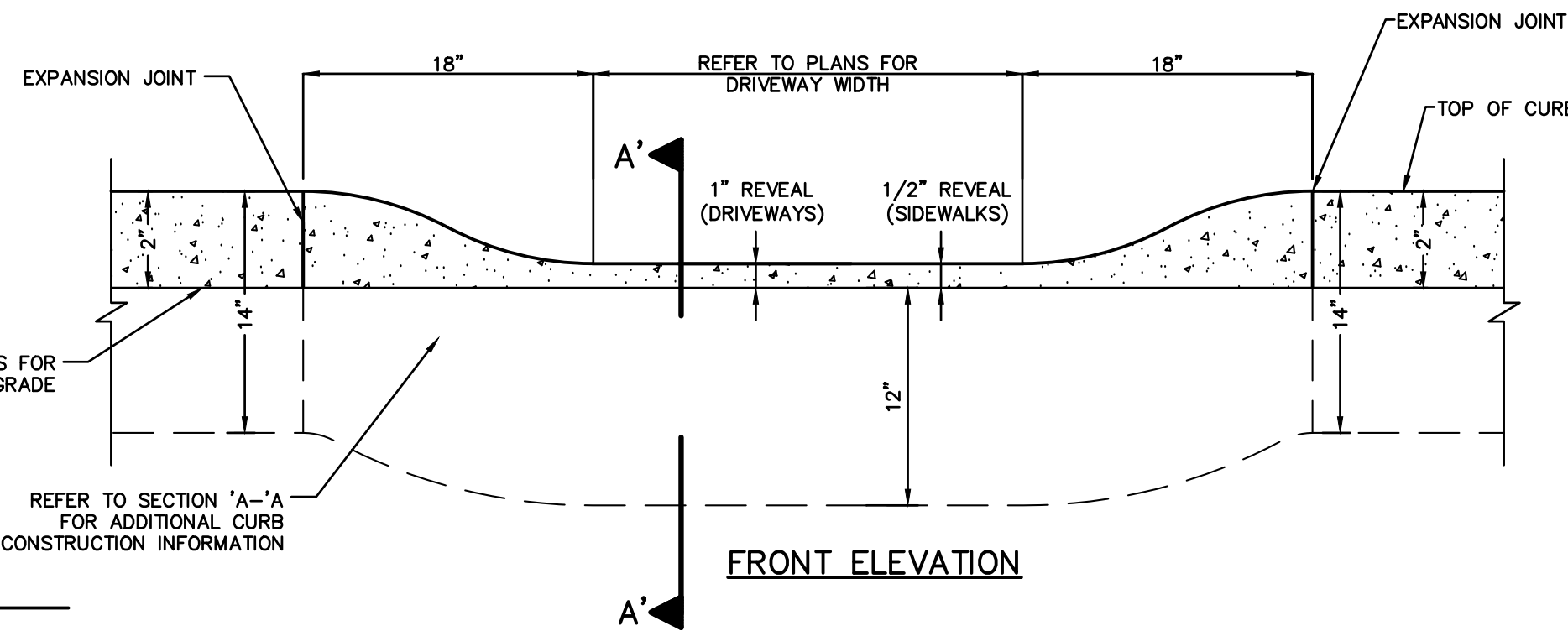


GRASS LINED SWALE

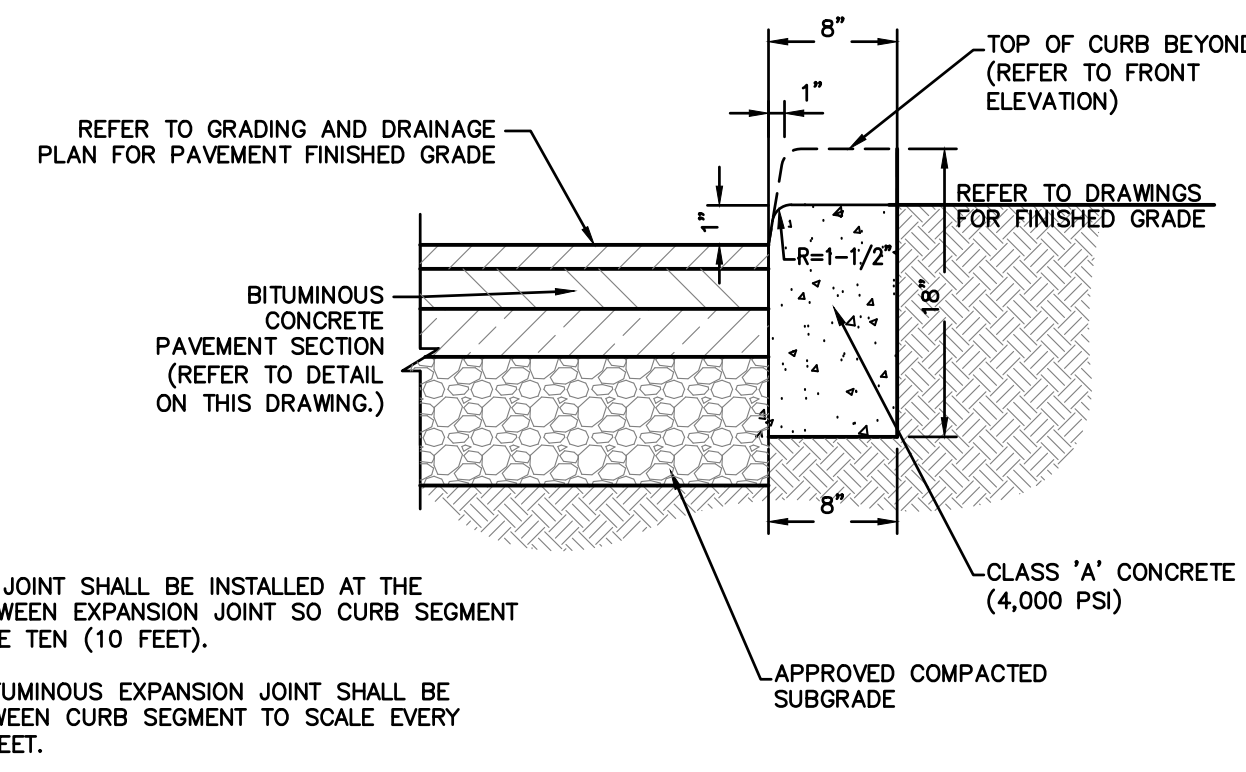


- NOTES:**
- SIGN BOLTS SHALL BE GALVANIZED STEEL WITH NUTS AND LOCK WASHERS WITH A DIAMETER OF 5/16 INCHES.
 - STEEL CHANNEL POST SHALL BE GALVANIZED WITH A GROSS WEIGHT OF 3 LBS. PER LINEAR FOOT (L.F.).
 - HOLES WITHIN STEEL CHANNEL POSTS SHALL BE 3/8 INCH DIAMETER SPACED 1 INCH ON-CENTER (O.C.).
 - EDGE OF SIGN SHALL BE PLACED 2 FEET BEHIND THE FACE OF CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TRAFFIC SIGN POST (STEEL)



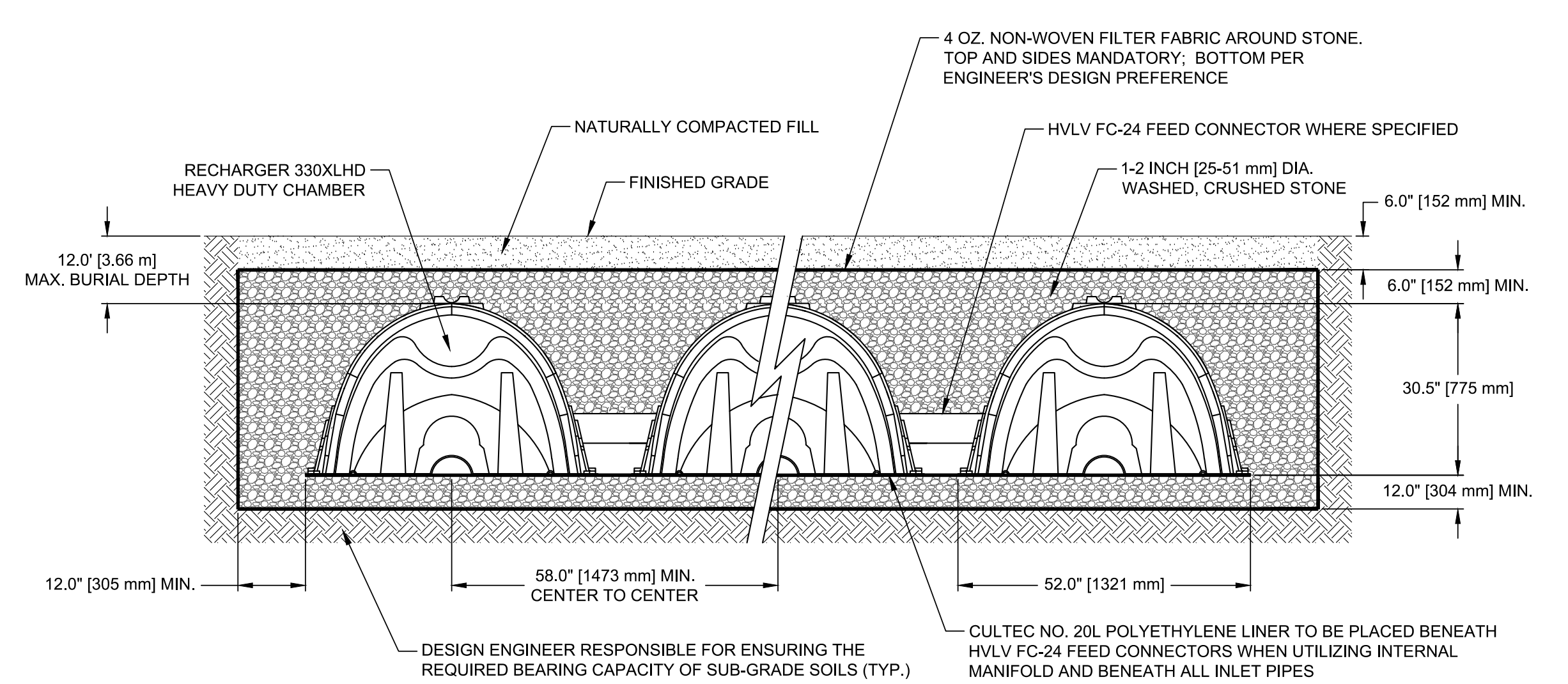
FRONT ELEVATION



SECTION A-A

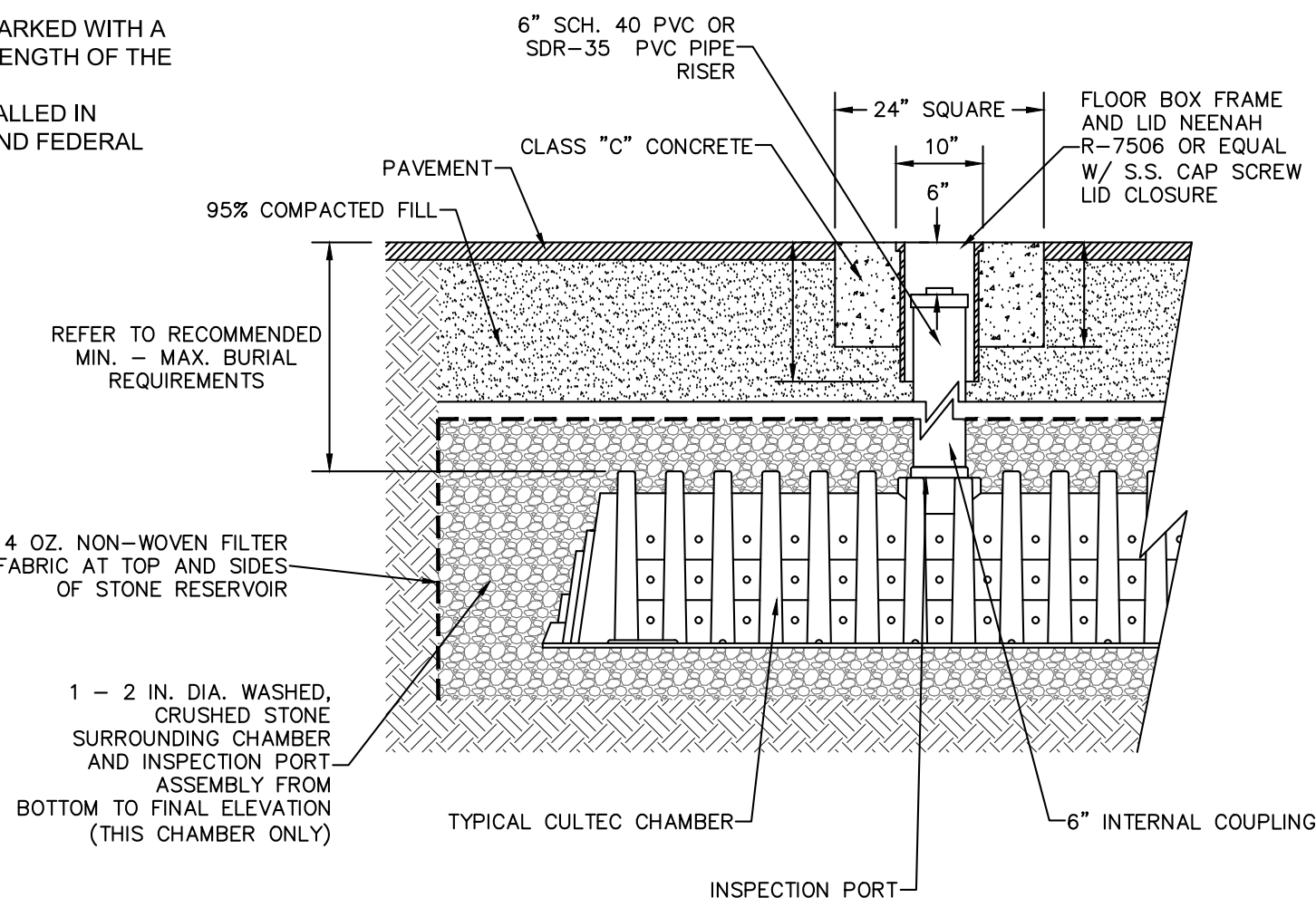
- NOTES:**
- CONSTRUCTION JOINT SHALL BE INSTALLED AT THE MID-POINT BETWEEN EXPANSION JOINT SO CURB SEGMENT LENGTH WILL BE TEN (10 FEET).
 - PREMOLDED BITUMINOUS EXPANSION JOINT SHALL BE INSTALLED BETWEEN CURB SEGMENT TO SCALE EVERY TWENTY (20) FEET.
 - MATCH EXPANSION JOINT IF CURB IS INSTALLED ADJACENT TO SIDEWALK OR CONCRETE PAVEMENT.
 - CURB SEGMENT LENGTH MAY DIFFERENTIATE AT CLOSURE POINT TO SCALE, BUT SHALL NOT BE LESS THAN FOUR (4) FEET.

CAST-IN-PLACE DEPRESSED CONCRETE CURB

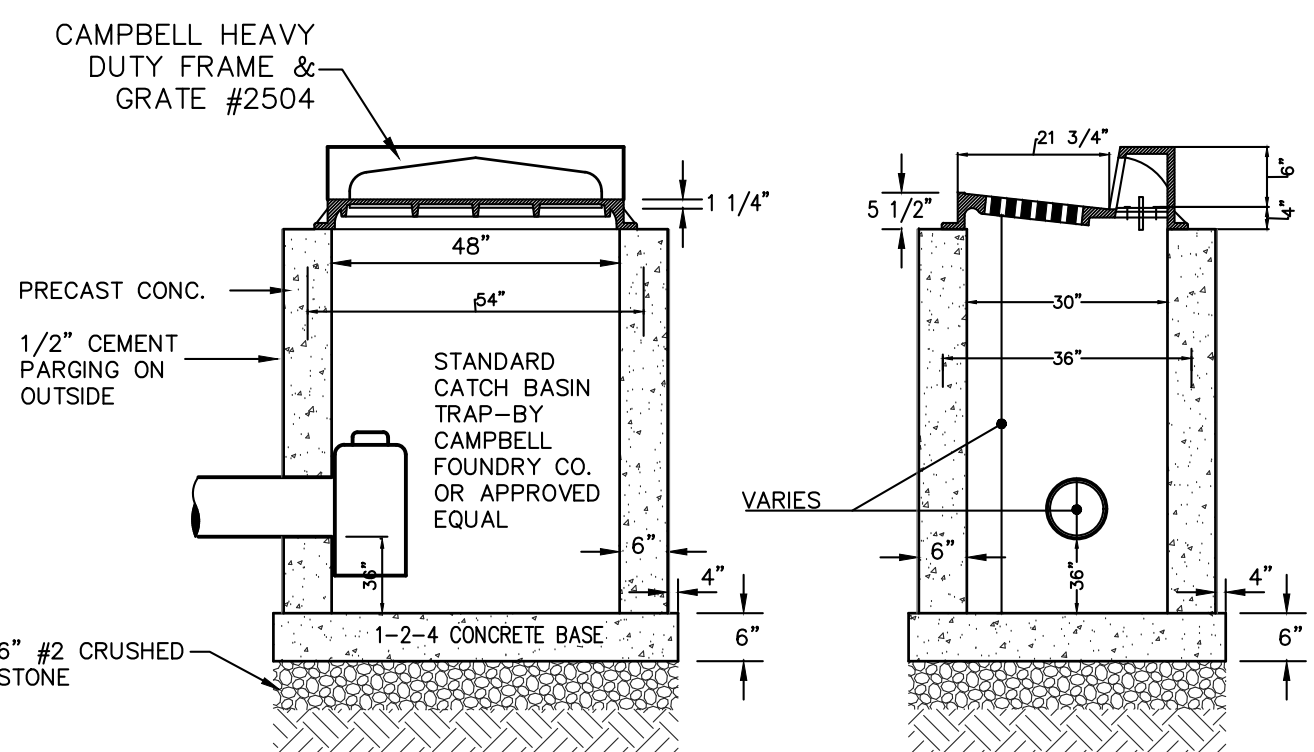


TYPICAL CROSS SECTION RECHARGER 330XL

CULTEC GENERAL NOTES
RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 11.32 CF/FT (1.05 m³/m) PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.



RECHARGER 330XL ACCESS PORT

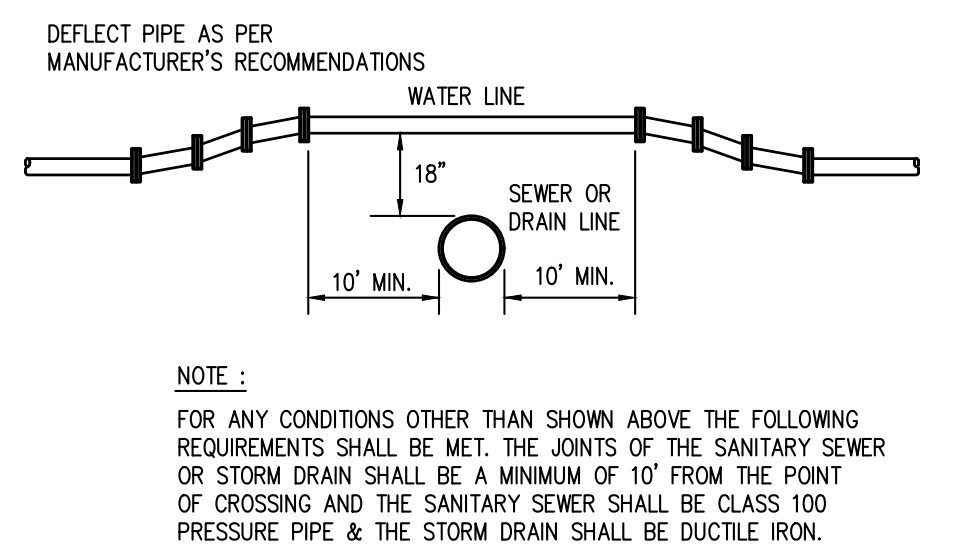
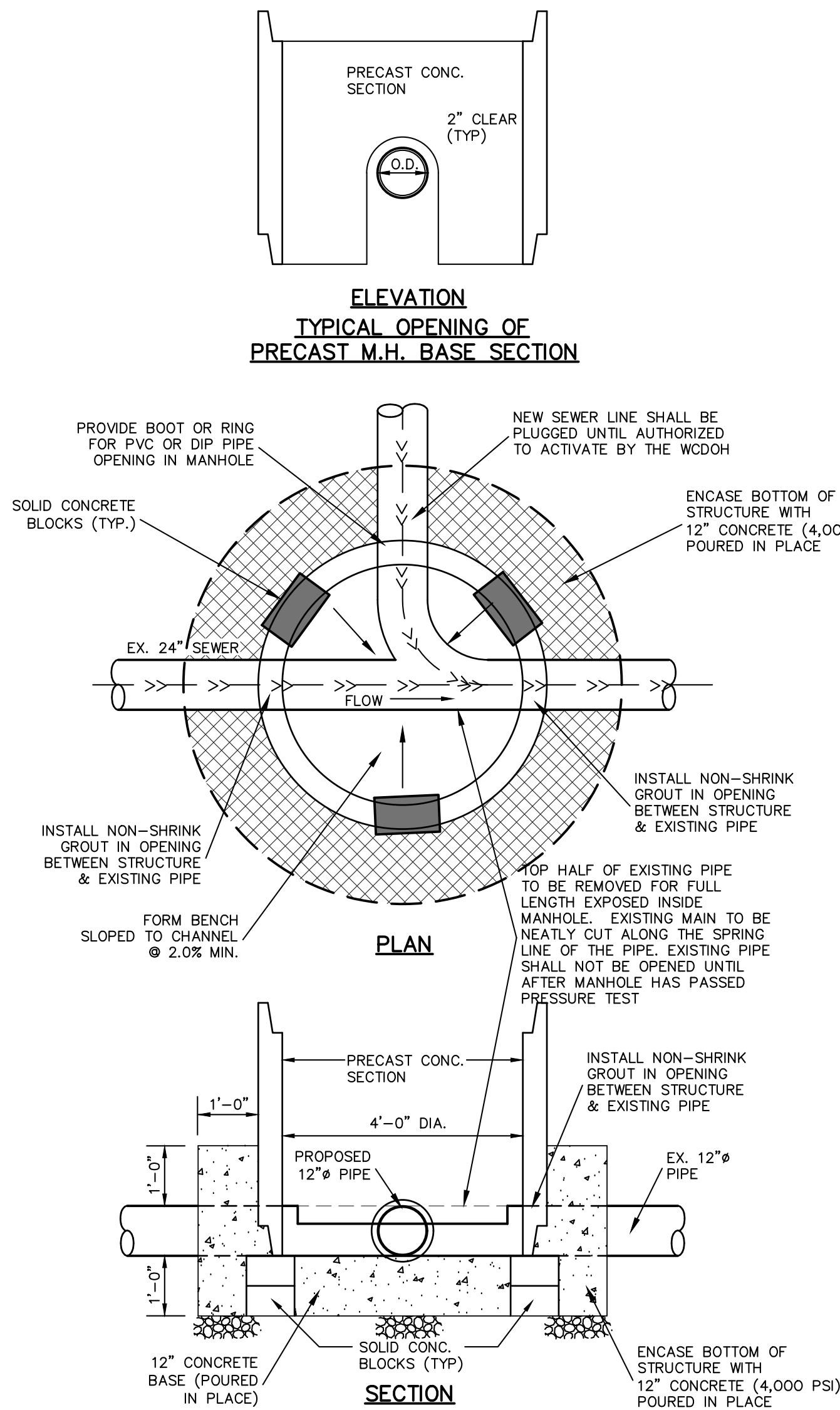


PRECAST CATCH BASIN

- NOTES:**
- CONCRETE - 5,000 PSI MINIMUM STRENGTH @ 28 DAYS
 - STEEL REINFORCEMENT - ASTM A-615, # 4 REBAR, GRADE 60
 - COVER TO STEEL - 1" MINIMUM
 - DESIGN LOADING - AASHTO HS20-44
 - EARTH COVER - 0 TO 10 FEET
 - CONSTRUCTION JOINT - LAPPED

PROJECT: PROPOSED 11-LOT SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK		
SITE DETAILS HUDSON ENGINEERING & CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086		
1. REVISIONS 2. REVISIONS 3. REVISIONS 4. REVISIONS 5. REVISIONS 6. REVISIONS 7. REVISIONS 8. REVISIONS 9. REVISIONS 10. REVISIONS	1. REVISIONS 2. REVISIONS 3. REVISIONS 4. REVISIONS 5. REVISIONS 6. REVISIONS 7. REVISIONS 8. REVISIONS 9. REVISIONS 10. REVISIONS	Date: 1/3/23 Scale: 1" = 20' Sheet: 12 Designed By: D.C. Checked By: M.S. Sheet No. C-9

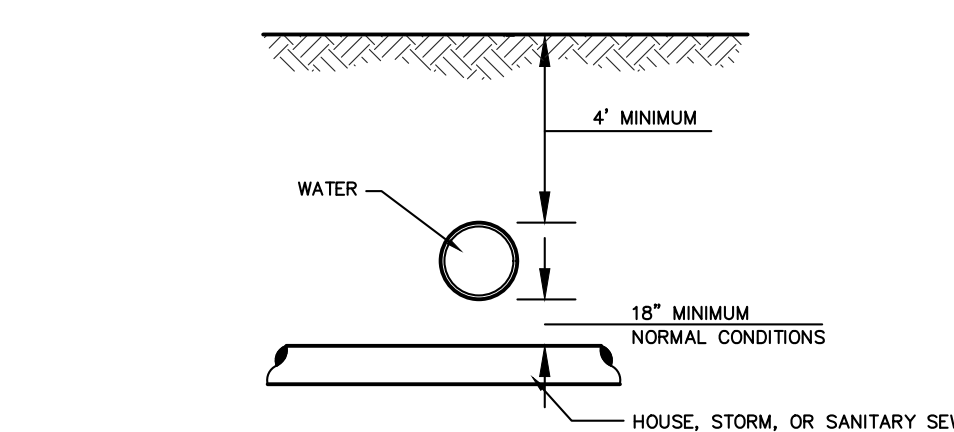
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DEFLECT PIPE AS PER MANUFACTURER'S RECOMMENDATIONS

NOTE:

FOR ANY CONDITIONS OTHER THAN SHOWN ABOVE, THE FOLLOWING REQUIREMENTS SHALL BE MET. THE JOINTS OF THE SANITARY SEWER OR STORM DRAIN SHALL BE A MINIMUM OF 10' FROM THE POINT OF CROSSING AND THE SANITARY SEWER SHALL BE CLASS 100 PRESSURE PIPE & THE STORM DRAIN SHALL BE DUCTILE IRON.

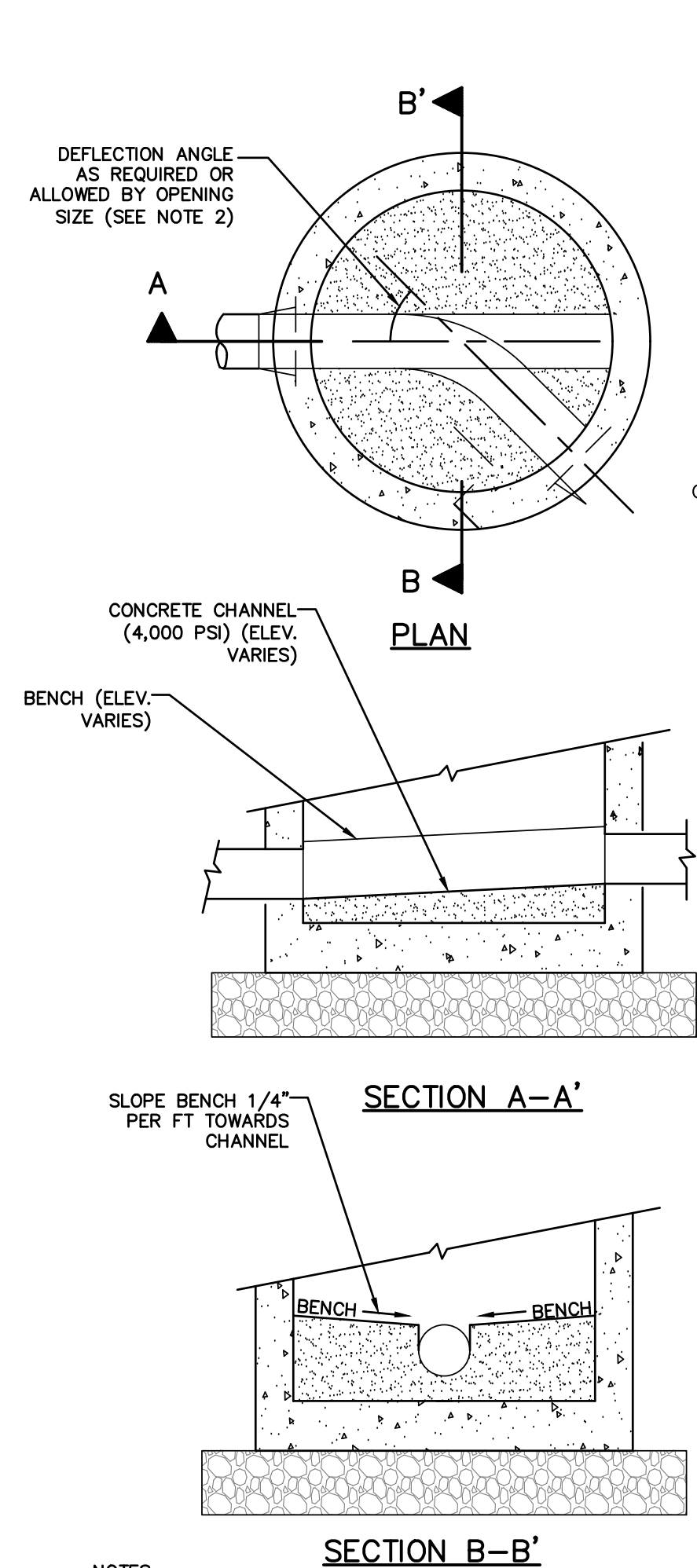


UNUSUAL CONDITIONS

WHERE A 10' HORIZONTAL SEPARATION CANNOT BE OBTAINED DUE TO FIELD CONDITIONS, THE VERTICAL CLEAR DISTANCE SHALL BE A MINIMUM OF 18" HOWEVER, AN EXCEPTION TO THE 10' MINIMUM HORIZONTAL SEPARATION REQUIRES SEPARATE APPROVAL OF THE WESTCHESTER COUNTY HEALTH DEPT.

SEPARATION OF WATER MAINS AND SEWER CROSSINGS

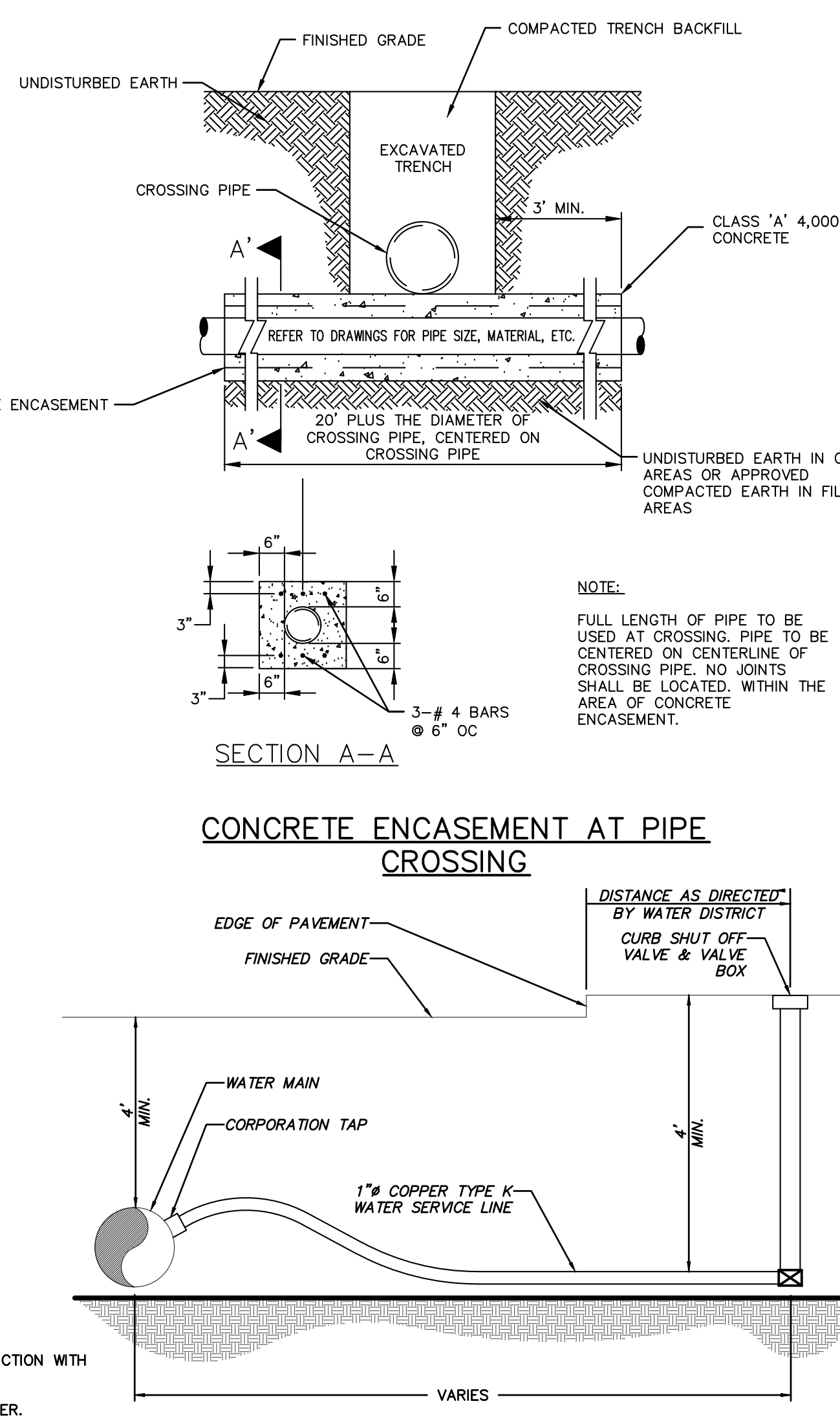
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NOTES:

- SLOPE CHANNEL DOWN 0.10 FEET FROM INLET TO OUTLET.
- MAKE CHANGES IN FLOW DIRECTION BY CIRCULAR CHANNEL CONSTRUCTION WITH MAXIMUM RADIUS POSSIBLE.
- FOR DEAD-END MANHOLES, BUILD CHANNEL AS DIRECTED BY ENGINEER.

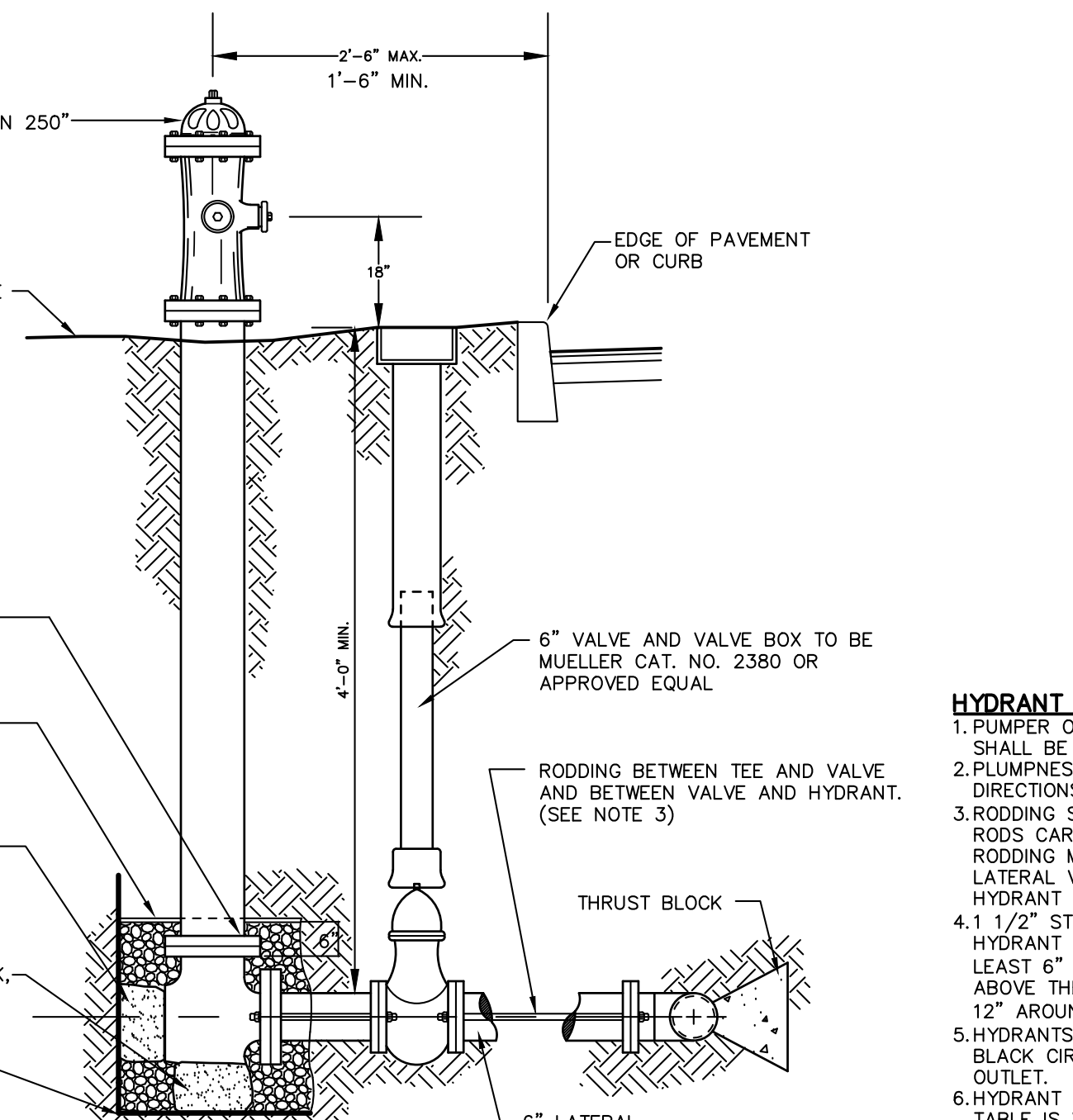
FORMED INVERT CHANNEL FOR SEWER MANHOLES



NOTES:

- WATER DISTRICT TO FURNISH AND INSTALL CORPORATION TAP, SERVICE LINE, AND CURB SHUT OFF VALVE AND VALVE BOX.
- CONTRACTOR TO EXCAVATE, MAINTAIN, BACKFILL, AND RESTORE TRENCH FOR THE TAP, SERVICE LINE, AND CURB SHUT OFF VALVE.
- CONTRACTOR TO TAKE OUT PERMIT, PAY FEE, AND TO FOLLOW ALL RULES AND REGULATIONS OF THE LOCAL UTILITY AGENCY.

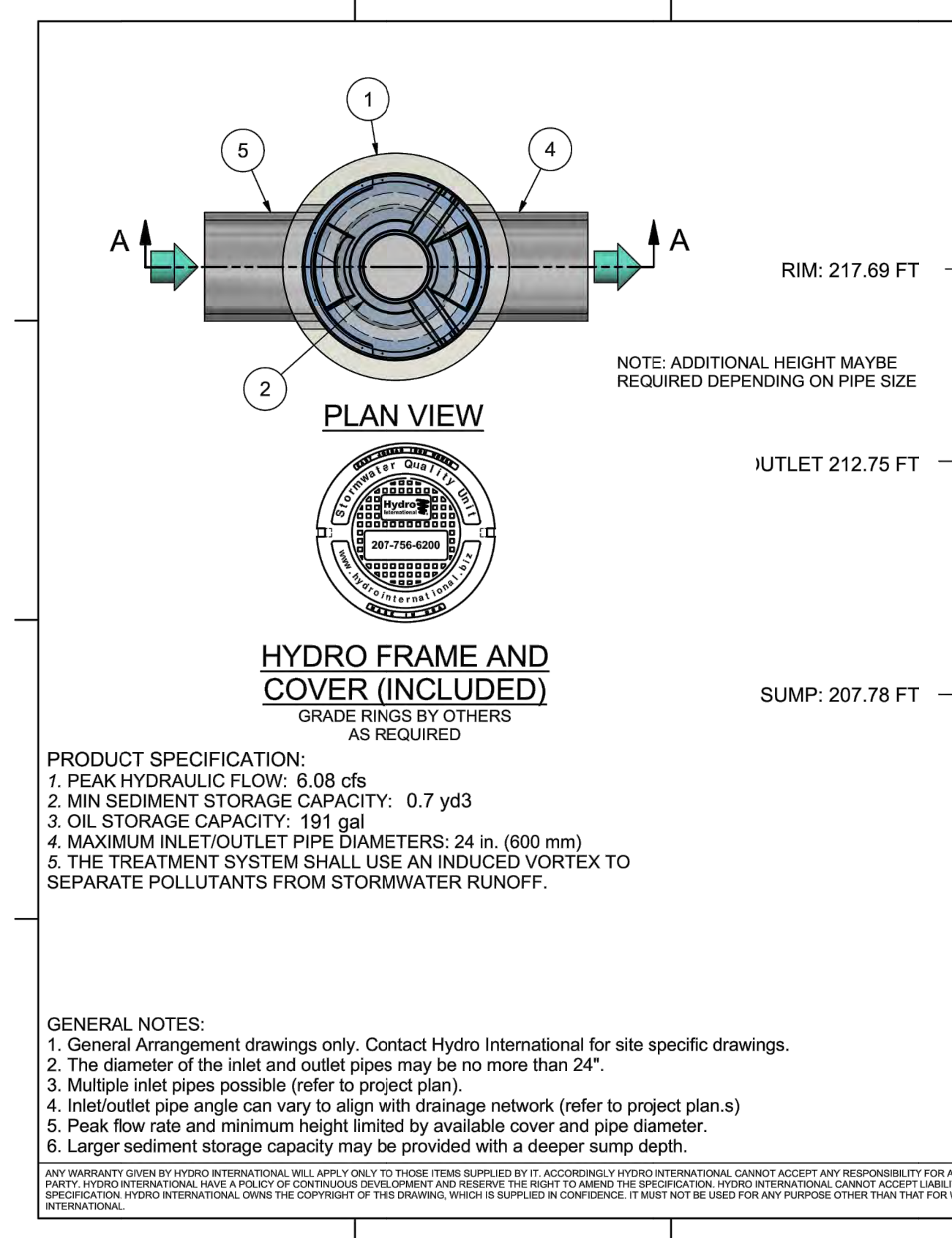
WATER SERVICE LINE LATERAL DETAIL



HYDRANT NOTES:

- PUMPER OUTLET SHALL FACE STREET; HOSE OUTLETS SHALL BE PARALLEL TO STREET.
- PLUMBNESS OF HYDRANT TO BE CHECKED IN TWO DIRECTIONS, 90° APART.
- RODDING SHALL CONSIST OF TWO 3/4" THREADED RODS CAREFULLY COATED WITH BITUMASTIC PAINT.
- HYDRANT TO CONFORM TO WWWW SPECIFICATIONS.
- HYDRANT DRAINS SHOULD BE PLUGGED WHEN THE HYDRANT FROM THE BOTTOM OF THE TRENCH, BUT AT LEAST 6" BELOW THE BASE OF THE HYDRANT TO 6" ABOVE THE WASTE OPENING AND TO A DISTANCE OF 12" AROUND THE ELBOW.
- HYDRANT DRAINS TO BE PLUGGED WHERE THE WATER TABLE IS WITHIN 7 FEET OF FINISHED GRADE. WHEN THE DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER.

WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FT. OF SANITARY SEWERS OR STORM DRAINS.



PRODUCT SPECIFICATION:

- PEAK HYDRAULIC FLOW: 6.08 cfs
- MIN SEDIMENT STORAGE CAPACITY: 0.7 yd³
- OIL STORAGE CAPACITY: 191 gal
- MAXIMUM INLET/OUTLET PIPE DIAMETERS: 24 in. (600 mm)
- THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

GENERAL NOTES:

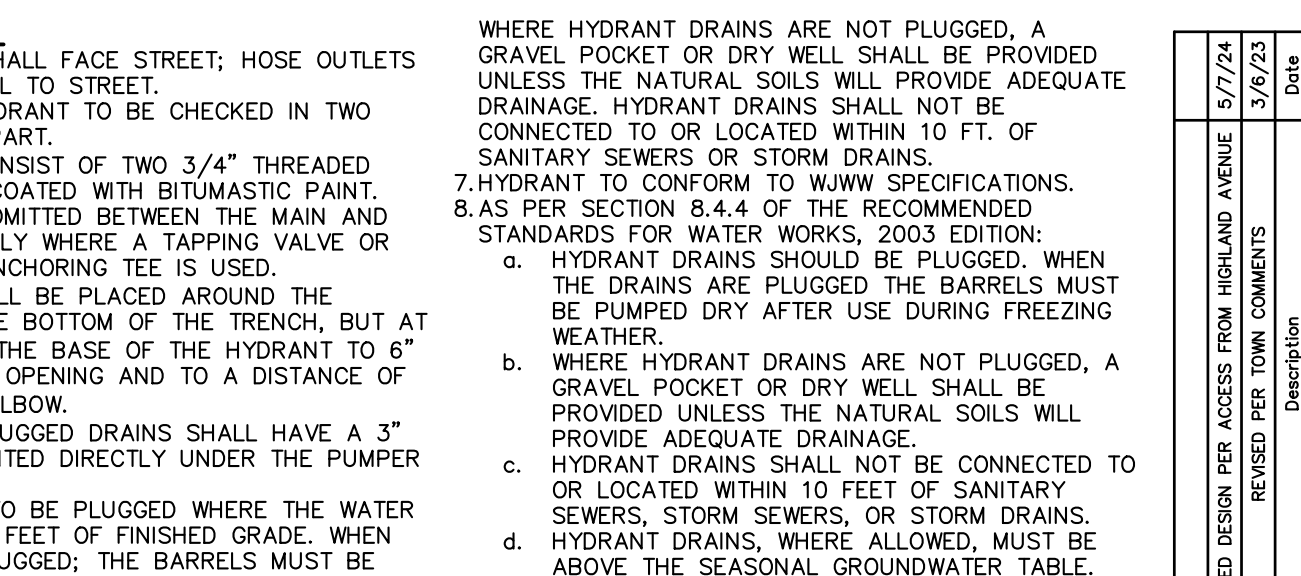
- General Arrangement drawings only. Contact Hydro International for site specific drawings.
- The diameter of the inlet and outlet pipes may be no more than 24".
- Multiple inlet pipes possible (refer to project plan).
- Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan.s)
- Peak flow rate and minimum height limited by available cover and pipe diameter.
- 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 THEREOF, DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL MAKES NO WARRANTY AS TO THE QUALITY, PERFORMANCE, OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY EQUIPMENT OR MATERIALS SUPPLIED BY IT. THE EQUIPMENT OR MATERIALS ARE SUBJECT TO CONDITION OF SALE AND 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.

STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM

MEASURE	DATES FOR INSPECTION	TIMING, ACTIVITY, AND LOCATION
GENERAL MAINTENANCE (STORM SEWER, CATCH BASINS/ DRAIN INLETS, MANHOLES, PRE-TREATMENT DEVICE AND INFILTRATION BASIN)	ALL	ALL STORMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE (3) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE FIRST THREE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED FOLLOWING A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OF RAIN OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED AS DESCRIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL BE IMMEDIATELY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SITE AREAS EXHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY RESTORED AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING ON THE AREA TO BE STABILIZED. UPON EACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED TO, TWIGS, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, OVERFLOW DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE STRUCTURES.
SUMPS - CATCH BASIN/ DRAIN INLETS AND DRAIN MANHOLES	UPON COMPLETION OF CONSTRUCTION -ONCE A MONTH FOR THE FIRST THREE (3) MONTHS -EVERY FOUR (4) MONTHS THEREAFTER	ALL CATCH BASIN/ DRAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE BEEN DESIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE INFILTRATION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WILL REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT ADEQUATE DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIR DULY AUTHORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE SUMP DEPTH. IF SEDIMENT HAS ACCUMULATED TO 1/2 (ONE-HALF) THE DEPTH OF THE SUMP, ALL SEDIMENT SHALL BE REMOVED FROM THE SUMP. SEDIMENTS CAN BE REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK. THE USE OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF ROADWAY AND DRIVEWAY AREAS.
HYDRODYNAMIC SEPARATOR	UPON COMPLETION OF CONSTRUCTION -QUARTERLY FOR FIRST YEAR -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL)	THE HYDRODYNAMIC SEPARATOR DEVICE SHALL BE MAINTAINED DURING DRY WEATHER CONDITIONS. ANY ACCUMULATED SEDIMENTS SHALL BE VACUUMED OUT WHEN SEDIMENT HAS REACHED 1/2 (ONE-HALF) THE CAPACITY OF THE ISOLATED SUMP, OR WHEN AN APPRECIABLE LEVEL OF HYDROCARBONS AND TRASH HAS ACCUMULATED, WHICHEVER OCCURS FIRST. WHEN THE SEDIMENT PILE IS WITHIN 30 TO 36 INCHES OF THE WATER SURFACE, THE SYSTEM SHOULD BE MAINTAINED. A VACUUM TRUCK SHALL BE USED TO REMOVE THE ACCUMULATED SEDIMENT AND DEBRIS. REFER TO MANUFACTURER'S LITERATURE FOR DETAILED MAINTENANCE INSTRUCTIONS.
SUBSURFACE EXFILTRATION CHAMBERS	UPON COMPLETION OF CONSTRUCTION -IMMEDIATELY AFTER CONSTRUCTION -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL) BY INDIVIDUAL HOMEOWNERS	ALL EXFILTRATION SYSTEMS SHALL BE INSPECTED EVERY SIX (6) MONTHS (SPRING AND FALL) FOR CLOGGING OF INLET AND OUTLET PIPING. DURING DRY WEATHER CONDITIONS, INLET AND OUTLET PIPING SHALL BE MANUALLY CLEANED AND CLEARED OF DEBRIS. ALL DEBRIS ACCUMULATED WITHIN THE INFILTRATION SYSTEM SHALL BE VACUUMED OUT OR REMOVED MANUALLY. TO PREVENT SEDIMENT FROM ACCUMULATING WITHIN SYSTEM, THE PRE-TREATMENT BASIN SHALL BE CLEANED AS RECOMMENDED ABOVE. MAINTENANCE OF THE INFILTRATION SYSTEMS LOCATED ON EACH INDIVIDUAL LOT SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL PROPERTY OWNER.

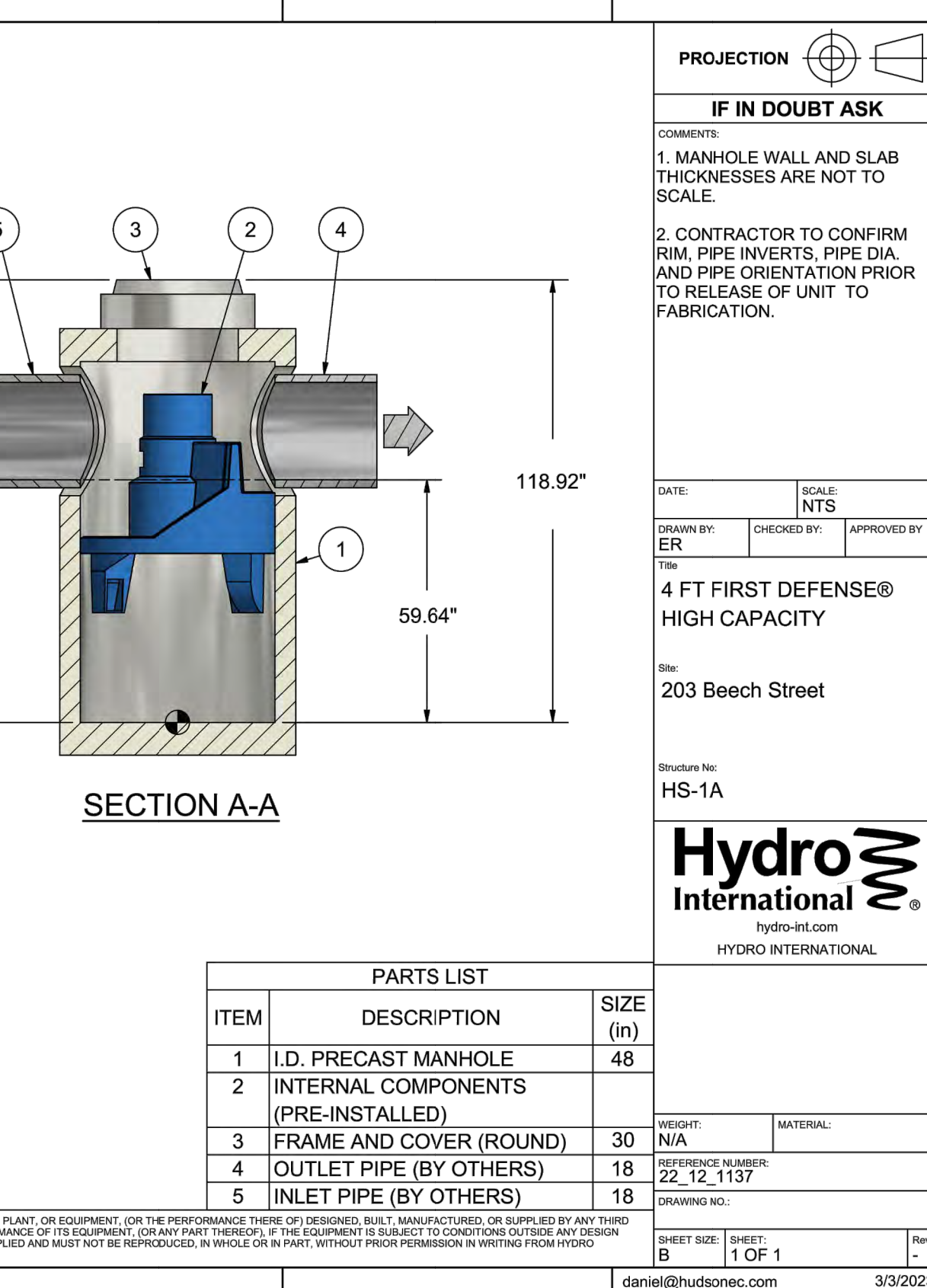
* DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE CONTRACTOR. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE CITY OF WHITE PLAINS AND THE NYSDEC AT THE TIME OF THE PRE-CONSTRUCTION MEETING. THE PERMANENT MAINTENANCE PROGRAM FOR ALL NEW STORMWATER MANAGEMENT FACILITIES WILL BE MANAGED BY THE HGA UPON COMPLETION OF CONSTRUCTION AND ACCEPTANCE OF THE IMPROVEMENTS.



HYDRANT NOTES:

- PUMPER OUTLET SHALL FACE STREET; HOSE OUTLETS SHALL BE PARALLEL TO STREET.
- PLUMBNESS OF HYDRANT TO BE CHECKED IN TWO DIRECTIONS, 90° APART.
- RODDING SHALL CONSIST OF TWO 3/4" THREADED RODS CAREFULLY COATED WITH BITUMASTIC PAINT.
- HYDRANT TO CONFORM TO WWWW SPECIFICATIONS.
- HYDRANT DRAINS SHOULD BE PLUGGED WHEN THE HYDRANT FROM THE BOTTOM OF THE TRENCH, BUT AT LEAST 6" BELOW THE BASE OF THE HYDRANT TO 6" ABOVE THE WASTE OPENING AND TO A DISTANCE OF 12" AROUND THE ELBOW.
- HYDRANT DRAINS TO BE PLUGGED WHERE THE WATER TABLE IS WITHIN 7 FEET OF FINISHED GRADE. WHEN THE DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER.

WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FT. OF SANITARY SEWERS OR STORM DRAINS.



PROJECT INFORMATION

Reference: HS-1A / 22_12_1137

Site: 203 Beech Street

Designer: Daniel Collins

Date: 3/3/2023 6:03 PM

DESIGN INPUTS

Unit Size (ft): 4.00

DESIGN OUTPUTS

Product: 4-8 DIAMETER FIRST DEFENSE HIGH CAPACITY

Unit Reference: FD-4HC

UNIT WEIGHTS AND DIMENSIONS

(A) Unit Size (ft): 4.00

(B) Inlet Pipe Size (in): 18

(C) Outlet Pipe Size (in): 18

(D) Inlet Depth (ft): 217.69

(E) Inlet Invert Height (ft): 4.97

(F) Outlet Invert Height (ft): 212.75

PERFORMANCE AND HYDRAULICS

Max. Treatment Flow Rate (cfs): 1.81

Hydraulic Capacity Flow Rate (cfs): 6.08

Typical Operating Headloss (in): 0

Maximum Headloss (in): 0

STORAGE

(G) Oil Storage Capacity (gal): 191

(H) Min Sediment Storage Capacity (yd³): 0.7

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PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY - NEW YORK

SITE DETAILS

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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DATE: 1/3/23 SHEET: 13

DESIGNED BY: D.C.

CHECKED BY: M.S.

SHEET NO.

C-10

CONSTRUCTION PHASE

DURING THE CONSTRUCTION PHASE OF THE PROJECT, A SEDIMENT AND EROSION CONTROL PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S BEST MANAGEMENT PRACTICES (BMP). THE PRIMARY GOALS OF THE SEDIMENT AND EROSION CONTROL PLAN ARE TO PREVENT THE TRACKING OF DIRT AND MUD ONTO ADJACENT ROADS, TO PREVENT MUD AND SILT FROM ENTERING INTO EXISTING AND PROPOSED DRAINAGE FACILITIES, AND TO PROTECT THE RECEIVING WATERS FROM CONTAMINATION DURING THE CONSTRUCTION.

DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE OWNER. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE TOWN OF VORHOWN AND THE NYSDEC AT THE TIME OF THE RECONSTRUCTION MEETING.

A NEW YORK STATE PROFESSIONAL ENGINEER OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (P.E. OR CPESC) SHALL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLAN HAVE BEEN ADEQUATELY INSTALLED AND/OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR CONSTRUCTION. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS SHALL BE CONDUCTED BY THE P.E. OR CPESC AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

DURING EACH INSPECTION, THE REPRESENTATIVE SHALL RECORD THE FOLLOWING:

- ON A SITE MAP, INDICATE THE EXTENT OF ALL DISTURBED SITE AREAS AND DRAINAGE PATHWAYS. INDICATE SITE AREAS THAT ARE EXPECTED TO UNDERGO INITIAL DISTURBANCE OR SIGNIFICANT SITE WORK WITHIN THE NEXT 14-DAY PERIOD;
- INDICATE ON A SITE MAP ALL AREAS OF THE SITE THAT HAVE UNDERGONE TEMPORARY OR PERMANENT STABILIZATION;
- INDICATE ALL DISTURBED SITE AREAS THAT HAVE NOT UNDERGONE ACTIVE SITE WORK DURING THE PREVIOUS 14-DAY PERIOD;
- INSPECT ALL SEDIMENT CONTROL PRACTICES AND RECORD APPROXIMATE DEGREE OF SEDIMENT ACCUMULATION AS A PERCENTAGE OF THE SEDIMENT STORAGE VOLUME;
- INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES AND RECORD ALL MAINTENANCE REQUIREMENTS. IDENTIFY ANY EVIDENCE OF RILL OR GULLY EROSION OCCURRING ON SLOPES AND ANY LOSS OF STABILIZING VEGETATION OR SEEDING/MULCHING. DOCUMENT ANY EXCESSIVE DEPOSITION OF SEDIMENT OR PONDING WATER ALONG THE BARRIER. RECORD THE DEPTH OF SEDIMENT WITHIN CONTAMINANT STRUCTURES AND ANY EROSION NEAR OUTLET AND OVERFLOW STRUCTURES.
- ALL IDENTIFIED DEFICIENCIES.

THE P.E. OR CPESC SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOGBOOK. THE SITE LOGBOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE TOWN OF EASTCHESTER AND THE NYSDEC A SUMMARY OF THE SITE INSPECTION ACTIVITIES SHALL BE POSTED ON A MONTHLY ACCESSIBLE LOCATION AT THE SITE.

THE PROJECTS ANTICIPATED START DATE IS APRIL 2023 AND THE ANTICIPATED COMPLETION DATE IS ESTIMATED TO OCCUR BY NOVEMBER 2025.

CONSTRUCTION SEQUENCING

THE FOLLOWING EROSION CONTROL SCHEDULE SHALL BE UTILIZED:

ROADWAY:

- PLACE ORANGE CONSTRUCTION FENCING AROUND ALL AREAS TO BE USED FOR EX-FILTRATION TO AVOID UNNECESSARY COMPACTION.
- INSTALL ORANGE CONSTRUCTION FENCE IN ALL LOCATIONS SHOWN ON THE PLANS.
- PROTECT TREES AND PLANTS INDICATED TO REMAIN WITHIN AND IMMEDIATELY ADJACENT TO THE GRADING LIMIT LINE WITH TEMPORARY ORANGE CONSTRUCTION FENCING OR SOLIDLY CONSTRUCTED WOOD BARRICADES AS REQUIRED. PROTECT ROOT SYSTEMS FROM SMOTHERING. DO NOT STORE EXCAVATED MATERIAL OR ALLOW VEHICULAR TRAFFIC OR PARKING WITHIN THE CANOPY DRIP LINE. RESTRICT FOOT TRAFFIC TO PREVENT EXCESSIVE COMPACTION OF SOIL OVER ROOT SYSTEMS. STORE MATERIALS AND EQUIPMENT IN CLEARED AREAS AWAY FROM TREE CANOPIES TO PREVENT EMPLOYEES AND EQUIPMENT FROM TRAMPLING OVER WOODLAND, EXISTING PLANTING, AND ESTABLISHED LAWNS.
- SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
- INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AS SHOWN ON THE PLAN.
- INSTALL A CONSTRUCTION ENTRANCE TO THE DEVELOPMENT AREA.
- ESTABLISH CONSTRUCTION STAGING AREA ADJACENT TO THE END OF THE ROADWAY ENTRANCE.
- INSTALL ALL DRAINAGE INFRASTRUCTURE WITHIN HIGHLAND AVENUE, STARTING AT THE DOWNSTREAM CONNECTION POINT (DOGHOUSE MANHOLE DMH-1) UP TO AND INCLUDING CATCH BASIN CB-3-1.
- ROUGH GRADE AND INSTALL TEMPORARY SEDIMENT BASIN AND TEMPORARY DIVERSION SWALE AS SHOWN ON THE PLANS. CONNECT OVERFLOW FROM SEDIMENT BASIN TO CATCH BASIN CB-3.
- REMOVE TREES WHERE NECESSARY (CLEAR & GRUB) FOR THE CONSTRUCTION OF THE PROPOSED ROADWAY, CUL-DE-SAC, AND STORMWATER/UTILITY EXTENSIONS TO THE PROPOSED DEVELOPMENT (INSTALL ADDITIONAL SILT FENCE DOWN SLOPE OF DISTURBED AREAS AS NECESSARY). PREVENT DAMAGE TO BUILDINGS, PAVEMENT, PIPES, CONDUITS, POLES AND OTHER STRUCTURES ABOVE AND BELOW GROUND THAT ARE ADJOINING OR INCLUDED IN THE CONTRACT AREA. REPAIR DAMAGE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE. REMOVE TREES WHERE INDICATED, AS FOLLOWS (REMOVAL OF EXISTING TREES SHALL BE LIMITED TO THE AREA OF EACH INDIVIDUAL PHASE OF CONSTRUCTION. NO TREES SHALL BE DISTURBED OUTSIDE OF THESE AREAS):
A. TOP AND LIMB ALL TREES BEFORE FALLING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
B. CHIP OUT STUMPS TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW FINISHED GRADE. BACKFILL STUMP HOLES WITH TOPSOIL AND SEED.
C. REMOVE AND DISPOSE OF ALL LOGS, TREE TRIMMINGS, AND DEBRIS FROM PROPERTY. LEAVE WORK AREA IN A NEAT UNCLUTTERED CONDITION.
D. RESTORE GRADES TO INDICATED LEVELS WHERE SETTLEMENT OR DAMAGE DUE TO PERFORMANCE OF THE WORK HAS OCCURRED. CORRECT CONDITIONS CONTRIBUTING TO SETTLEMENT OR DAMAGE.
E. RESTORE PAVEMENTS, WALKS, CURBS, LAWNS, AND OTHER EXTERIOR SURFACES DAMAGED DURING PERFORMANCE OF THE WORK TO MATCH THE APPEARANCE AND PERFORMANCE OF EXISTING CORRESPONDING SURFACES AS CLOSELY AS PRACTICABLE.
- STRIP TOPSOIL AND STOCKPILE AT THE LOCATIONS SPECIFIED ON THE PLANS (UP GRADIENT OF EROSION CONTROL MEASURES). TEMPORARILY STABILIZE TOPSOIL STOCKPILES (HYDROSEED DURING MAY 1ST/ THROUGH OCTOBER 31ST PLANTING SEASON OR BY COVERING WITH A TARPAULIN'S) NOVEMBER 1ST/ THROUGH APRIL 30TH/. INSTALL SILT FENCE AROUND TOE OF SLOPE.
- ROUGH GRADE PROPOSED ROAD AND CUL-DE-SAC TO INSTALL UTILITIES FOR SUBDIVISION AND ATTENUATION GALLERY FOR ROADWAY. (INSTALL ADDITIONAL SILT FENCE DOWN SLOPE OF DISTURBED AREAS AS NECESSARY).
- INSTALL ALL UTILITY EXTENSIONS FOR PROPOSED DEVELOPMENT AS FOLLOWS (ALL TRENCING FOR UTILITY INSTALLATIONS SHALL BE COMPLETED SIMULTANEOUSLY, AS TO LIMIT ANY UNNECESSARY DISTURBANCE. NO MORE THAN 100 LINEAR FEET OF TRENCH SHALL BE OPEN AT ANY GIVEN TIME):
A. INSTALL SANITARY SEWER MAIN EXTENSION STARTING AT THE CONNECTION POINT IN BEECH STREET. EXTEND INDIVIDUAL SERVICE CONNECTIONS FOR LOTS 1 THROUGH 6 AND CAP AT PROPERTY LINE. PROVIDE MARKER AT LOCATION OF CAP ON EACH LOT. ALL STRUCTURES AND PIPING TO BE VACUUM TESTED AND PRESSURE TESTED PER WOODH REQUIREMENTS PRIOR TO BEING PUT INTO SERVICE.
B. INSTALL WATER MAIN EXTENSION STARTING AT THE CONNECTION POINT AT THE ENTRANCE FROM BEECH STREET TO THE END OF THE CUL-DE-SAC. EXTEND INDIVIDUAL SERVICE CONNECTIONS FOR LOTS 1 THROUGH 6. ALL CURB BOX VALVES SHALL BE SET IN THE "OFF" POSITION. ALL WATER LINES ARE TO BE PRESSURE TESTED AND DISINFECTED PER WOODH REQUIREMENTS PRIOR TO BEING PUT INTO SERVICE.
- INSTALL ALL DRAINAGE WORK DOWNGRADEMENT OF THE PROPOSED ATTENUATION GALLERY STARTING AT THE CONNECTION POINT WITHIN HIGHLAND AVENUE UP TO THE LOCATION OF THE ATTENUATION GALLERY.
- EXCAVATE AND INSTALL ATTENUATION GALLERY.
- INSTALL ALL DRAINAGE WORK TRIBUTARY TO THE ATTENUATION GALLERY. TEMPORARILY PLUG ALL INLETS GALLERY UNTIL OBTAINING 80% STABILIZATION OF ALL DISTURBED AREAS.
- INSTALL TEMPORARY INLET PROTECTION ON ALL NEWLY INSTALLED CATCH BASINS AND DRAIN INLETS. MAKE SURE ALL CATCH BASINS AND DRAIN INLETS ARE CLEANED AND CLEAR OF SEDIMENT.
- INSTALL CURBING, SUB-BASE AND BASE COURSES TO STABILIZE ROADWAY. TEMPORARILY SEED AND MULCH ALL DISTURBED AREAS ADJACENT TO ROADWAY (DO NOT BEGIN CONSTRUCTION OF PROPOSED RESIDENCES UNTIL ALL DISTURBED AREAS ASSOCIATED WITH THE PROPOSED ROADWAY AND UTILITY WORK HAVE BEEN STABILIZED).

INDIVIDUAL RESIDENCES:

- REPLACE ANY DAMAGED ORANGE CONSTRUCTION FENCING AROUND ALL AREAS TO BE USED FOR EX-FILTRATION.
- REPLACE ANY DAMAGED ORANGE CONSTRUCTION FENCE THROUGHOUT THE PROPERTY.
- INSTALL A CONSTRUCTION ENTRANCE TO EACH INDIVIDUAL LOT IN THE LOCATION OF THE PROPOSED DRIVEWAY AREA.
- INSTALL TREE PROTECTION ON TREES AS NOTED ON PLANS.
- SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
- INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AS SHOWN ON THE PLANS.
- REMOVE TREES WHERE NECESSARY (CLEAR & GRUB) FOR THE PROPOSED CONSTRUCTION OF EACH RESIDENCE (INSTALL ADDITIONAL SILT FENCE DOWN SLOPE OF DISTURBED AREAS AS NECESSARY). PREVENT DAMAGE TO BUILDINGS, PAVEMENT, PIPES, CONDUITS, POLES AND OTHER STRUCTURES ABOVE AND BELOW GROUND THAT ARE ADJOINING OR INCLUDED IN THE CONTRACT AREA. REPAIR DAMAGE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE. REMOVE TREES WHERE INDICATED, AS FOLLOWS (REMOVAL OF EXISTING TREES SHALL BE LIMITED TO THE AREA OF EACH INDIVIDUAL PHASE OF CONSTRUCTION. NO TREES SHALL BE DISTURBED OUTSIDE OF THESE AREAS):
A. TOP AND LIMB ALL TREES BEFORE FALLING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
B. CHIP OUT STUMPS TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW FINISHED GRADE. BACKFILL STUMP HOLES WITH TOPSOIL AND SEED.
C. REMOVE AND DISPOSE OF ALL LOGS, TREE TRIMMINGS, AND DEBRIS FROM PROPERTY. LEAVE WORK AREA IN A NEAT UNCLUTTERED CONDITION.
D. RESTORE GRADES TO INDICATED LEVELS WHERE SETTLEMENT OR DAMAGE DUE TO PERFORMANCE OF THE WORK HAS OCCURRED. CORRECT CONDITIONS CONTRIBUTING TO SETTLEMENT OR DAMAGE.
E. RESTORE PAVEMENTS, WALKS, CURBS, LAWNS, AND OTHER EXTERIOR SURFACES DAMAGED DURING PERFORMANCE OF THE WORK TO MATCH THE APPEARANCE AND PERFORMANCE OF EXISTING CORRESPONDING SURFACES AS CLOSELY AS PRACTICABLE.
- ROUGH GRADE LOTS FOR CONSTRUCTION OF PROPOSED RESIDENCES. INSTALL ADDITIONAL SILT FENCE DOWN SLOPE OF ALL DISTURBED AREAS, AS NECESSARY. (LIMIT DISTURBANCE FOR PROPOSED RESIDENCES TO THREE (3) LOTS AT A TIME).
- EXCAVATE AND INSTALL EXFILTRATION SYSTEMS AS SHOWN ON THE PLANS PER MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. PLUG ALL OPENINGS FOR FUTURE CONNECTION.
- EXCAVATE AND CONSTRUCT FOUNDATIONS FOR NEW RESIDENCES.
- CONSTRUCT BUILDINGS, INSTALL AND CONNECT ALL ROOF DRAIN LEADERS TO PREVIOUSLY INSTALLED EXFILTRATION GALLERIES AS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- ROUGH GRADE DRIVEWAYS AND INSTALL TRENCH DRAINS AND/OR DRAIN INLETS. CONNECT DRAINS ACCORDINGLY, AS SHOWN ON THE CONSTRUCTION DOCUMENTS (INSTALL INLET PROTECTION ON ALL PROPOSED DRAINS).
- INSTALL SEWER AND WATER SERVICE CONNECTIONS.
- INSTALL DRIVEWAY SUB-BASE AND BINDER COURSE.
- INSTALL 4"-6" TOPSOIL, FINE GRADE, SEED THE ENTIRE PROJECT SITE AND INSTALL LANDSCAPE PLANTINGS. SPREAD SALT HAY OVER SEEDED AREAS, ALL SEEDING FOR FINAL VEGETATIVE STABILIZATION SHALL BE APPLIED PER THE FOLLOWING SECTION AND SEDIMENT CONTROL COMPONENTS - SURFACE STABILIZATION.
- CLEAN STORMWATER CONVEYANCE SYSTEM COMPONENTS, INCLUDING ALL CATCH BASINS, MANHOLES, BYPASS MANHOLE, PIPING AND PRETREATMENT DEVICES.
- UNPLUG ALL PIPE INLETS TO TREATMENT FACILITIES.

- REPAIR PREVIOUSLY INSTALLED BASE COURSE AS NECESSARY. INSTALL BITUMINOUS CONCRETE BINDER AND TOP COURSE IN ROADWAY AND DRIVEWAYS.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

*SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND PRIOR TO AND AFTER EVERY 1/2" OR GREATER RAINFALL EVENT.

CONSTRUCTION PRACTICES TO MINIMIZE STORMWATER CONTAMINATION:

GENERAL:

ADEQUATE MEASURES SHALL BE TAKEN TO MINIMIZE CONTAMINANT PARTICLES ARISING FROM THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GRADING OPERATIONS, AND THE RECLAMATION AND PLACEMENT OF PAVEMENT, DURING PROJECT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

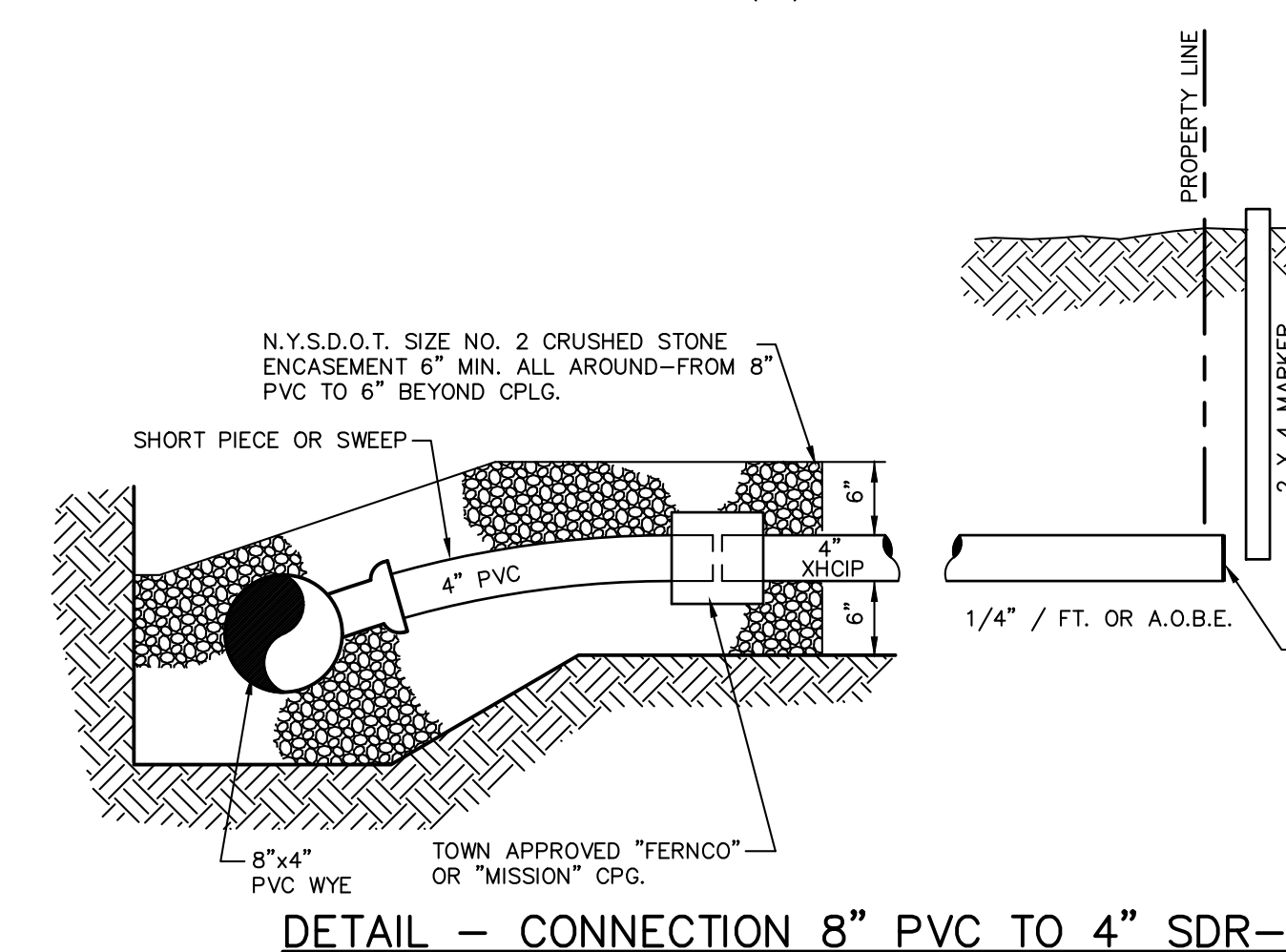
- BUILDING MATERIALS, GARBAGE, AND DEBRIS SHALL BE CLEANED UP DAILY AND DEPOSITED INTO DUMPSTERS, WHICH WILL BE PERIODICALLY REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED OF. ALL DUMPSTERS AND CONTAINERS LEFT ON-SITE SHALL BE COVERED WITH SILT FENCE IN ORDER TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.
- THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
- PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED.
- ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM SYSTEM WILL BE REPORTED TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE TEMPORARY MATERIAL STORAGE TRAILER ON-SITE. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAND DUST, AND PLASTIC AND METAL TRASH CONTAINERS.
- ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SYSTEM, BUT WILL BE PROPERLY DISPOSED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF TWO TIMES A WEEK TO AVOID OVERTILLING. ALL SANITARY WASTE UNITS SHALL BE SURROUNDED BY SILT FENCE TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- FERTILIZERS WILL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO AVOID SPILLS AND WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER AND WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER.
- NO DISTURBED AREA SHALL BE LEFT UN-STABILIZED FOR LONGER THAN 14 DAYS DURING THE GROWING SEASON.
- WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATIONS SHALL BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATIONS AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW WITHIN 24 HOURS THEREAFTER.
- AS WORK PROGRESSES, PATCH SEEDING SHALL BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
- DRAINAGE PIPES AND SWALES/DITCHES SHALL GENERALLY BE CONSTRUCTED IN A SEQUENCE FROM OUTLET TO INLET IN ORDER TO STABILIZE OUTLET AREAS AND DITCHES BEFORE WATER IS DIRECTED TO THE NEW INSTALLATION OR ANY PORTION THEREOF, UNLESS CONDITIONS UNIQUE TO THE LOCATION WARRANT AN ALTERNATIVE METHOD.

SPILL CONTROL & SPILL RESPONSE:

- FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES, AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.
- ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- AFTER A SPILL, A REPORT WILL BE PREPARED DESCRIBING THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES TAKEN. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING, AS WELL AS CLEAN UP INSTRUCTIONS IN THE EVENT OF REOCCURRENCES.
- THE CONTRACTOR'S SITE SUPERINTENDENT, RESPONSIBLE FOR DAY-TO-DAY OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- IF THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE NOTIFIED IMMEDIATELY WHEN A SPILL OR THE THREAT OF A SPILL IS OBSERVED. THE SUPERINTENDENT WILL ASSESS THE SITUATION AND DETERMINE THE APPROPRIATE RESPONSE.
- IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING EROSION AND SEDIMENT CONTROLS AND ENTERING RECEIVING WATERS, PERSONNEL WILL BE DIRECTED TO RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.
- SPILL KITS CONTAINING APPROPRIATE MATERIALS AND EQUIPMENT FOR SPILL RESPONSE AND CLEANUP WILL BE MAINTAINED BY THE CONTRACTOR AT THE SITE.
- IF OIL SHEEN IS OBSERVED ON SURFACE WATER, ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE OIL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- IF A SPILL OCCURS THE SUPERINTENDENT OR THE SUPERINTENDENT'S DESIGNEE WILL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE CONTACTS LISTED BELOW.
- PERSONNEL WITH PRIMARY RESPONSIBILITY FOR SPILL RESPONSE AND CLEAN UP WILL RECEIVE TRAINING BY THE CONTRACTOR'S SITE SUPERINTENDENT OR DESIGNEE. THE TRAINING MUST INCLUDE IDENTIFYING THE LOCATION OF THE SPILL, KITTS AND OTHER SPILL RESPONSE EQUIPMENT AND THE USE OF SPILL RESPONSE MATERIALS.
- SPILL RESPONSE EQUIPMENT WILL BE INSPECTED AND MAINTAINED AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

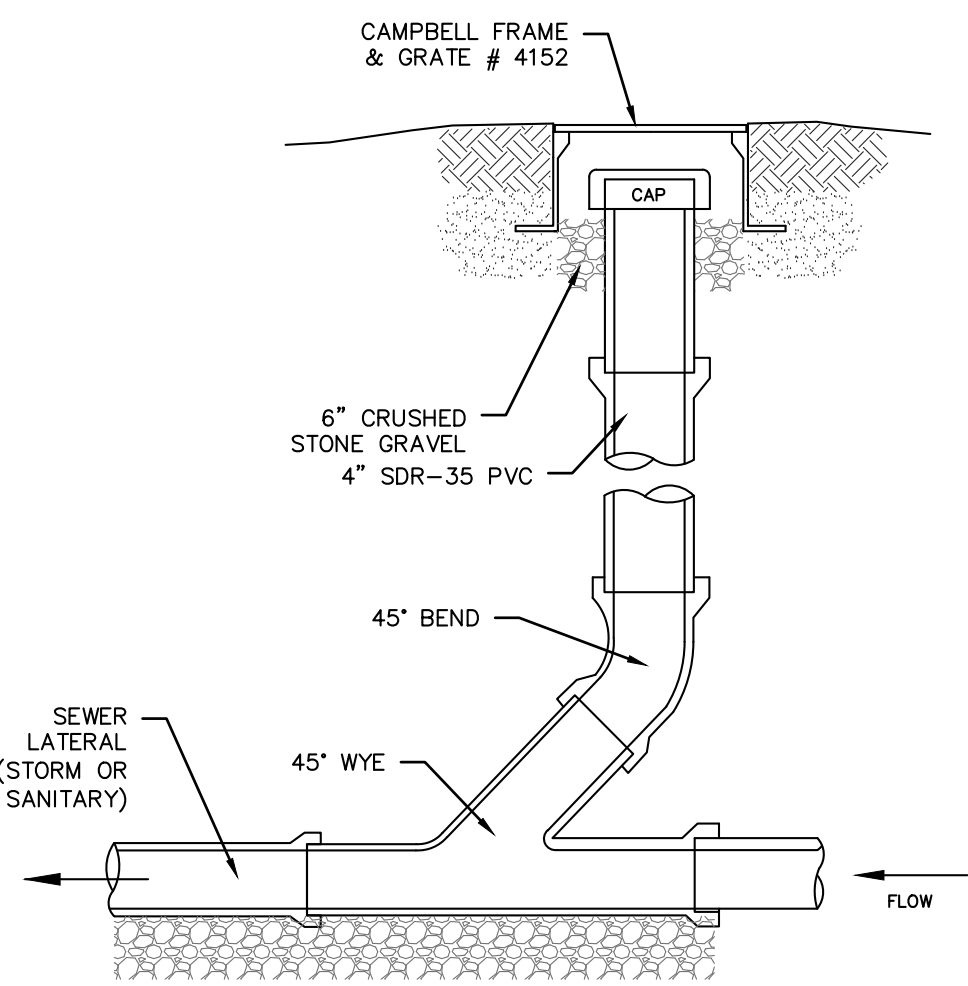
SPILL CONTROL NOTIFICATION:

- A REPORTABLE SPILL IS A QUANTITY OF FIVE (5) GALLONS OR MORE OF ANY SPILL OF OIL WHICH: (1) VIOLATES WATER QUALITY STANDARDS, (2) PRODUCES A 'SHEEN' ON A SURFACE WATER, OR (3) CAUSES A SLUDGE OR EMULSION. THIS SPILL MUST BE REPORTED IMMEDIATELY TO THE AGENCIES LISTED BELOW.
- ANY SPILL OF OIL OR HAZARDOUS SUBSTANCE TO WATERS OF THE STATE MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE FOLLOWING AGENCIES:
 - 911 - POLICE, FIRE AND EMS
 - TOWN OF EASTCHESTER BUILDING DEPARTMENT
40 MILL ROAD
EASTCHESTER, NY 10709
PHONE: (914) 771-3317
 - EASTCHESTER FIRE DEPARTMENT
255 MAIN STREET
EASTCHESTER, NY 10709
PHONE: (914) 793-6402
 - NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)
SPILL REPORTING HOTLINE
(800) 457-7362
 - NATIONAL RESPONSE CENTER: (800) 424-8802
 - LOCAL EMERGENCY PLANNING COMMITTEE (LEPC)
WESTCHESTER COUNTY OFFICE OF EMERGENCY MANAGEMENT
200 BRADHURST AVENUE
HAWTHORNE, NY 10532
(914) 864-3450
 - WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDOH)
SPILL REPORTING HOTLINE
(914) 813-5000
 - U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA)
EPCRA INFORMATION HOTLINE
(800) 535-0202
 - U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
TARRYTOWN, NY
(914) 524-7510



SANITARY SEWER SERVICE LINES

NOTE: IF WALL EXISTS AT PROPERTY LINE; EXTEND SERVICE LINE UNDER WALL.



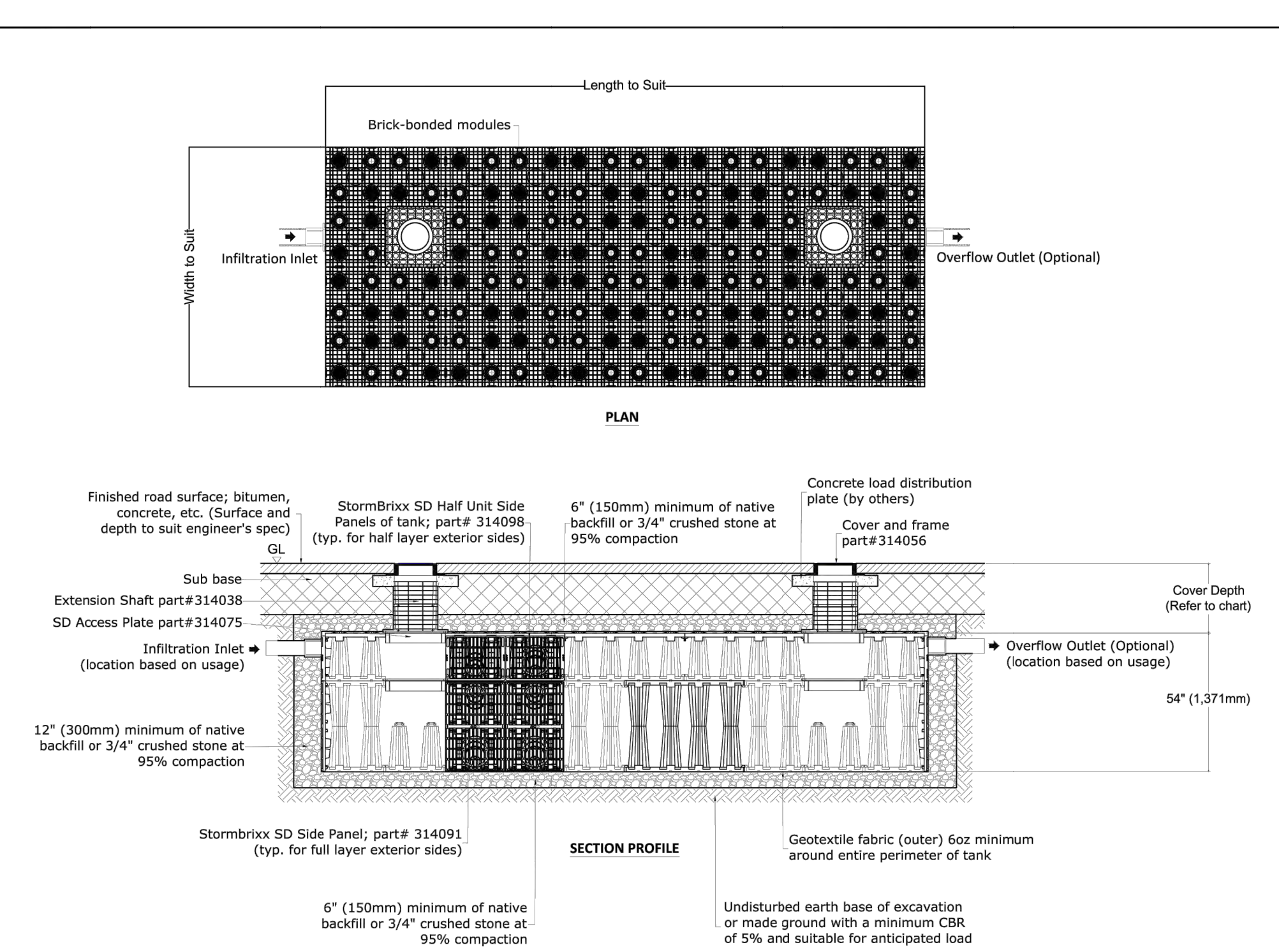
NOTES (SANITARY SEWER SERVICES):

- ALL SANITARY SEWER SERVICES TO BE 4" Ø SCH. 40 @ 1.0% MINIMUM.
- 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):

- REFER TO PLAN FOR SPECIFIC PIPE SIZING AND SLOPE SPECIFICATIONS; HOWEVER, IN GENERAL, ALL STORM SEWER SERVICES TO BE 6" Ø SCH. 40 @ 1.0% MINIMUM.
- 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)



INFILTRATION - STORMBRIXX SD 1.5 LAYERS WITH ACCESS PLATES

INSTALLATION DRAWING - ACO STORMBRIXX SD

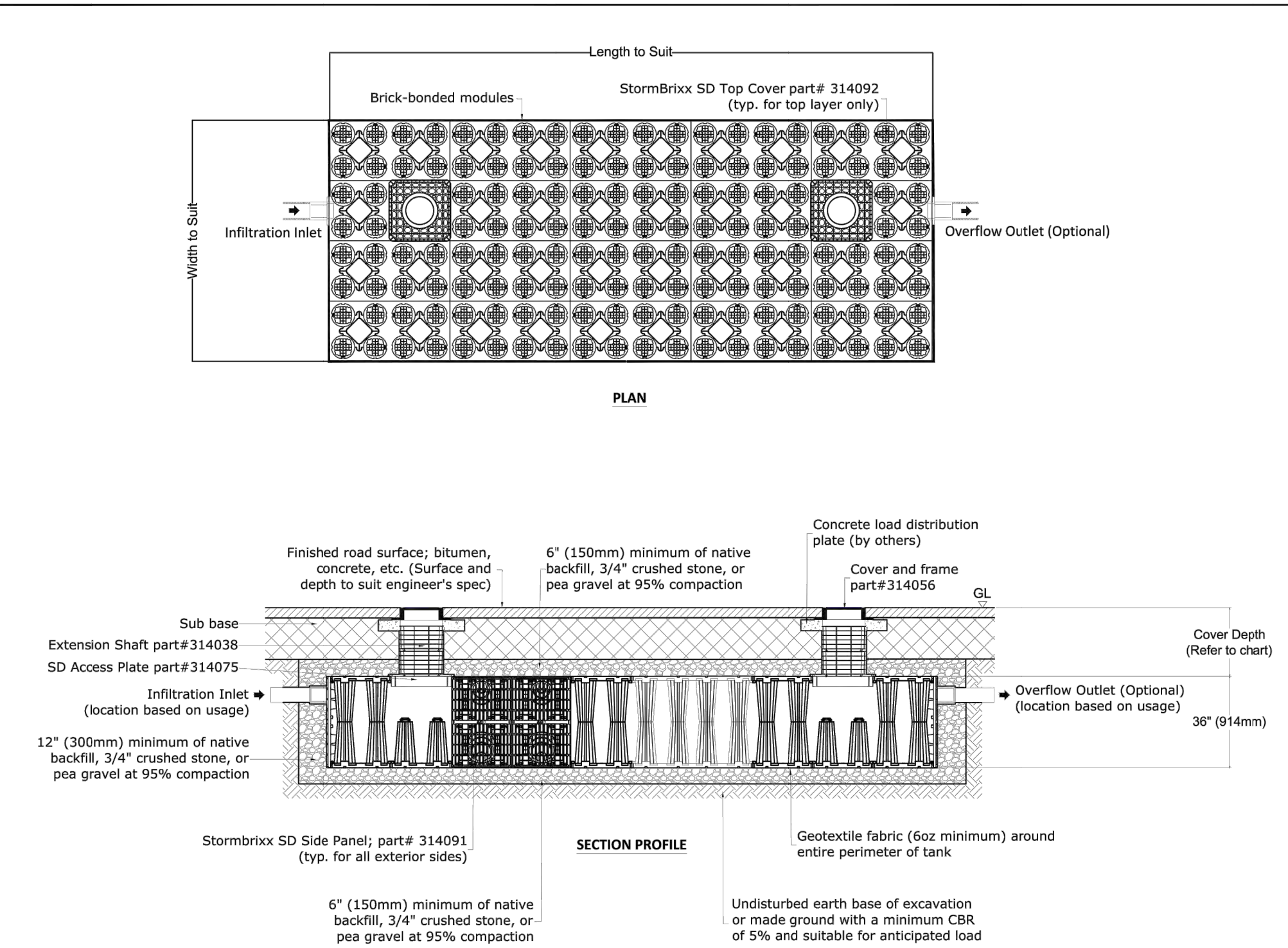
Arizona Tel: 888-490-9552

e-mail: info@acousa.com

Ohio Tel: 800-543-4764

WWW.ACOSTORMBRIXX.US

South Carolina Tel: 800-543-4764



INFILTRATION - STORMBRIXX SD ONE LAYER WITH ACCESS PLATES

INSTALLATION DRAWING - ACO STORMBRIXX SD

Arizona Tel: 888-490-9552

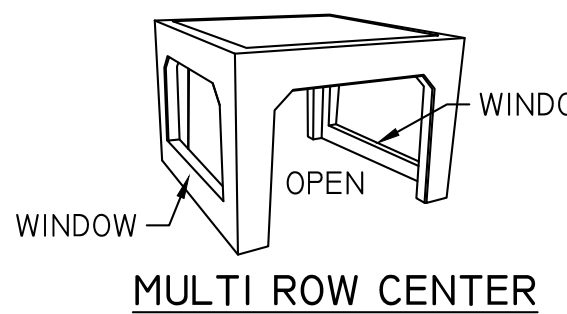
e-mail: info@acousa.com

Ohio Tel: 800-543-4764

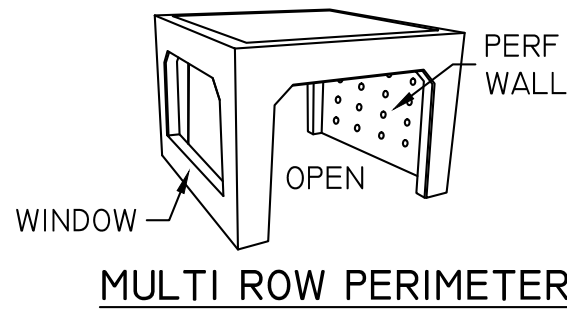
WWW.ACOSTORMBRIXX.US

South Carolina Tel: 800-543-4764

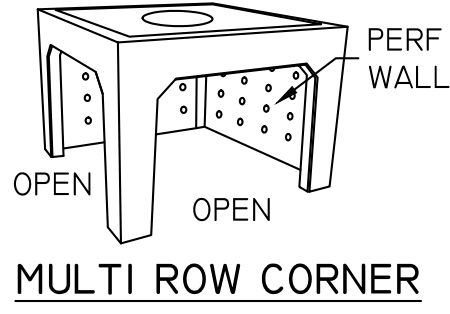
REVISIONS REVISED PER TOWN COMMENTS REVISED PER TOWN COMMENTS REVISED PER TOWN COMMENTS	DATE: 5/7/24	BY: [Signature]	
	DATE: 4/10/23	BY: [Signature]	
	DATE: 3/7/23	BY: [Signature]	
	DATE: 2/7/23	BY: [Signature]	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE			
PROJECT: PROPOSED 11-LOT SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK			
SITE DETAILS HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmford, New York 10523 T: 914-909-0420 F: 914-560-2086			
Date: 1/3/23 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 15			
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.		C-11 © 2024	



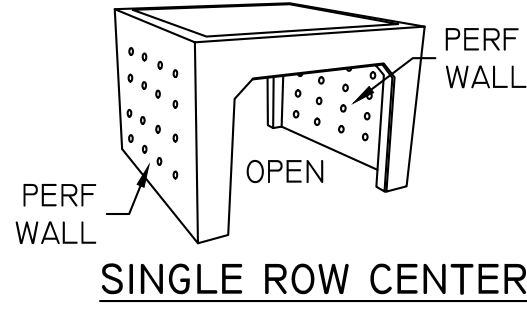
MULTI ROW CENTER



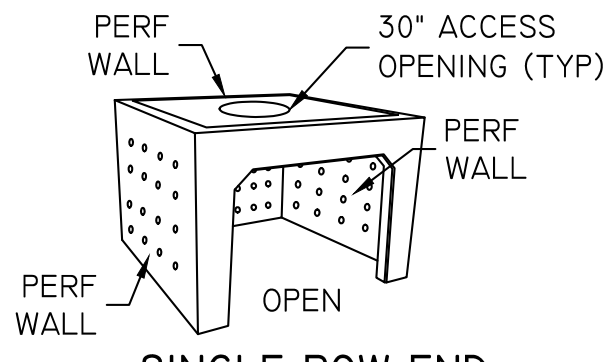
MULTI ROW PERIMETER



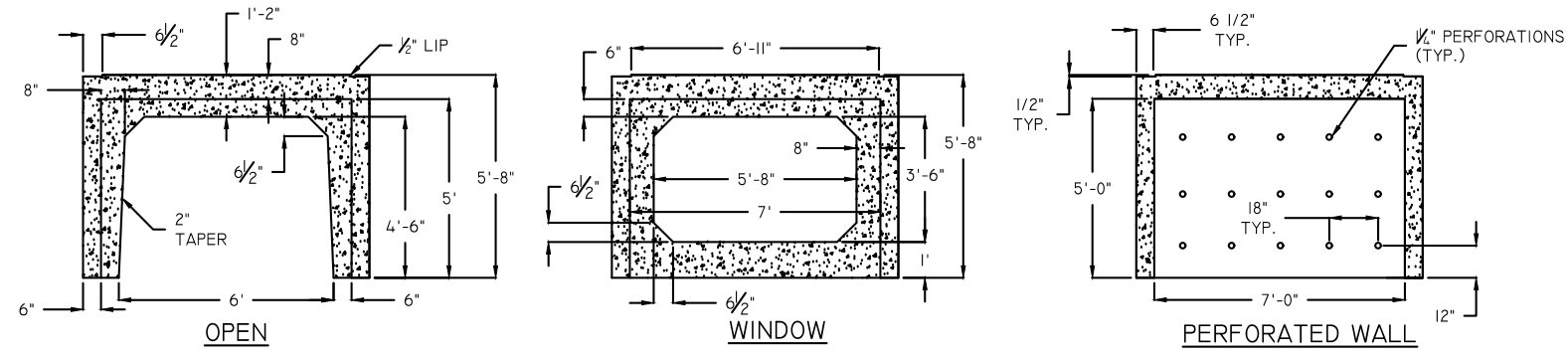
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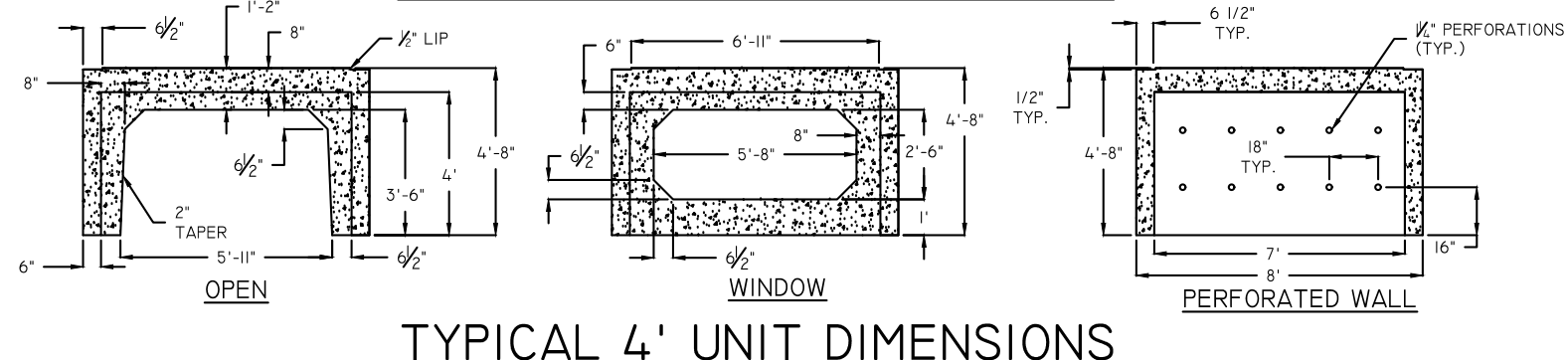
SINGLE ROW CENTER



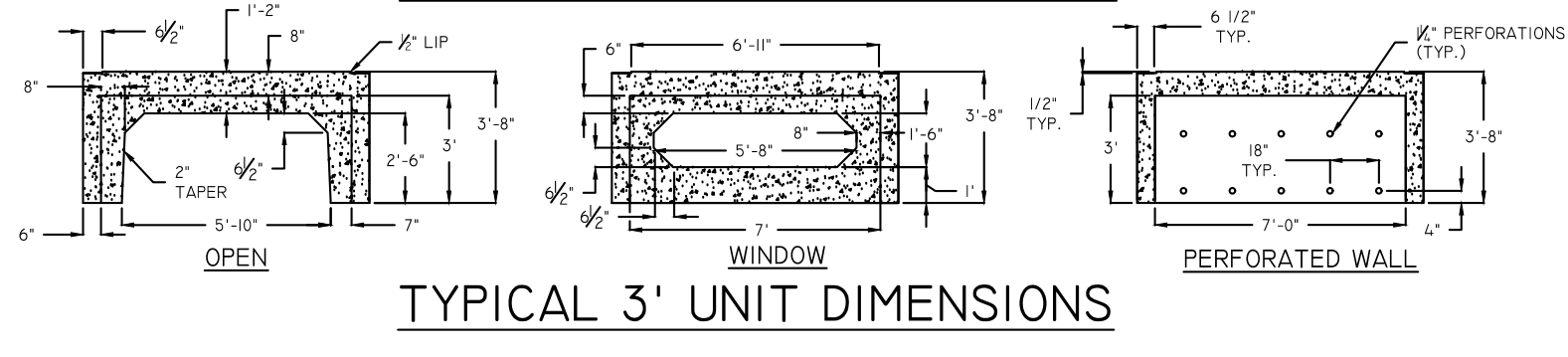
SINGLE ROW END



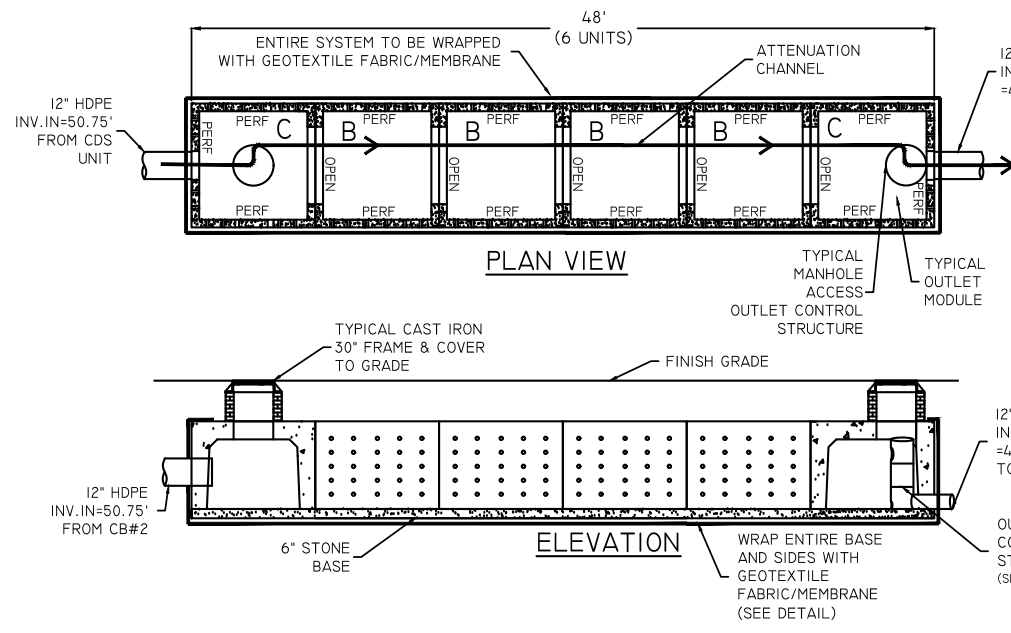
TYPICAL 5' UNIT DIMENSIONS



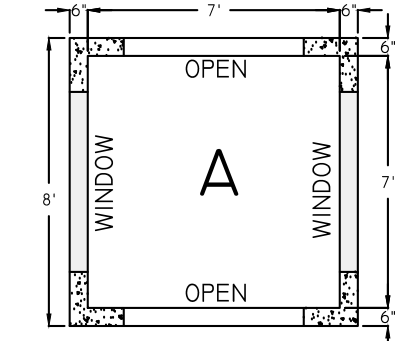
TYPICAL 4' UNIT DIMENSIONS



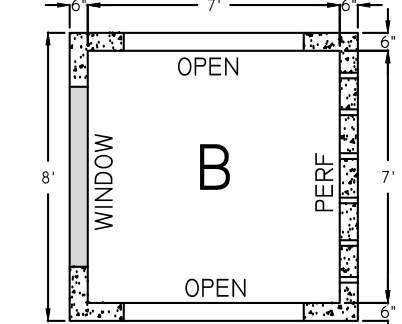
TYPICAL 3' UNIT DIMENSIONS



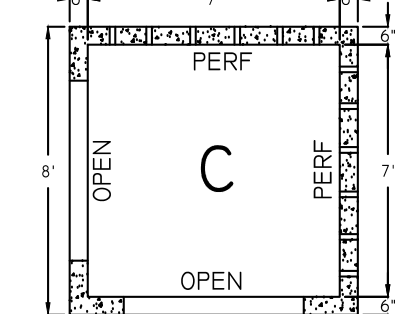
TYPICAL DETENTION /RETENTION



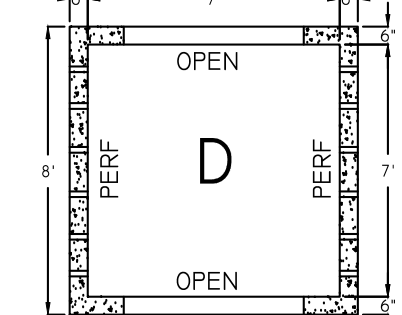
MULTI ROW CENTER



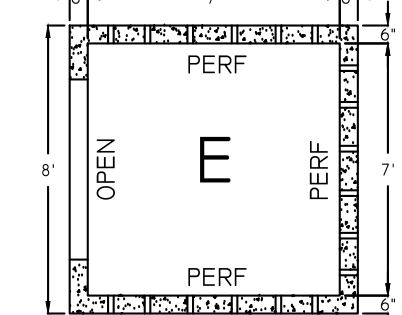
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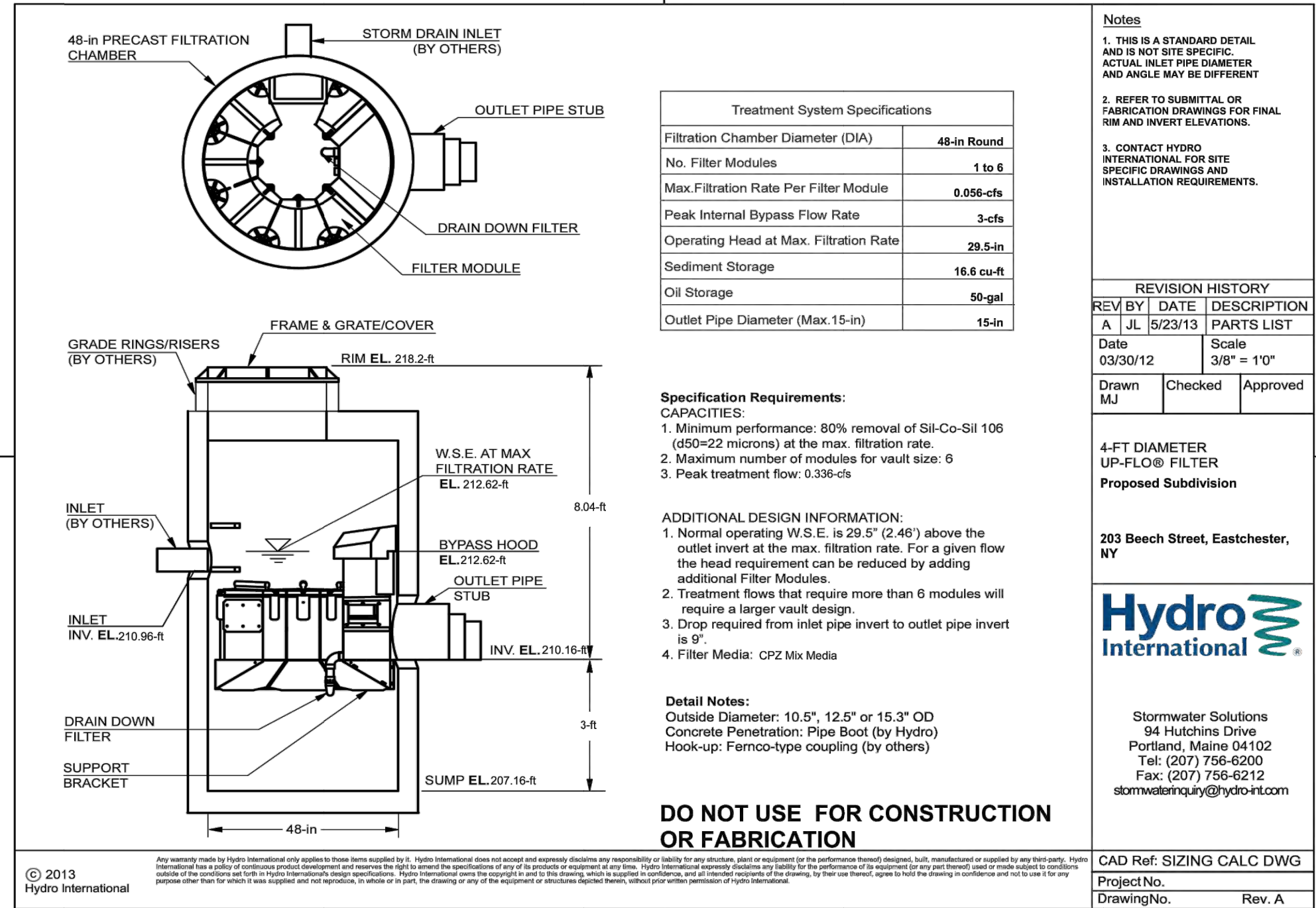
MULTI ROW CORNER



SINGLE ROW CENTER



SINGLE ROW END



Treatment System Specifications	
Filter Chamber Diameter (DIA)	48-in Round
No. Filter Modules	1 to 5
Max. Filtration Rate Per Filter Module	0.056-cfs
Peak Internal Bypass Flow Rate	3-cfs
Operating Head at Max. Filtration Rate	29.5-in
Sediment Storage	16.6 cu-ft
Oil Storage	50-gal
Outlet Pipe Diameter (Max. 15-in)	15-in

- Specification Requirements:**
- CAPACITIES:**
- Minimum performance: 80% removal of Sil-Co-Sil 106 (d50=22 microns) at the max. filtration rate.
 - Maximum number of modules for vault size: 6
 - Peak treatment flow: 0.336-cfs

- ADDITIONAL DESIGN INFORMATION:**
- Normal operating W.S.E. is 29.5' (2.46') above the outlet invert at the max. filtration rate. For a given flow the head requirement can be reduced by adding additional Filter Modules.
 - Treatment flows that require more than 6 modules will require a larger vault design.
 - Drop required from inlet pipe invert to outlet pipe invert is 6'.
 - Filter Media: CPZ Mix Media

- Detail Notes:**
- Outside Diameter: 10.5", 12.5" or 15.3" OD
 - Concrete Penetration: Pipe Boot (by Hydro)
 - Hook-up: Fernco-type coupling (by others)

DO NOT USE FOR CONSTRUCTION OR FABRICATION

- Notes**
- THIS IS A STANDARD DETAIL AND IS NOT SITE SPECIFIC. ACTUAL INLET PIPE DIAMETER AND ANGLE MAY BE DIFFERENT.
 - REFER TO SUBMITTAL OR FABRICATION DRAWINGS FOR FINAL RIM AND INVERT ELEVATIONS.
 - CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS AND INSTALLATION REQUIREMENTS.

REVISION HISTORY		
REV. BY	DATE	DESCRIPTION
A	JL 5/23/13	PARTS LIST
Date	03/30/12	Scale
Drawn	ML	Checked
		Approved

4-FT DIAMETER
UP-FLOW FILTER
Proposed Subdivision

203 Beech Street, Eastchester, NY

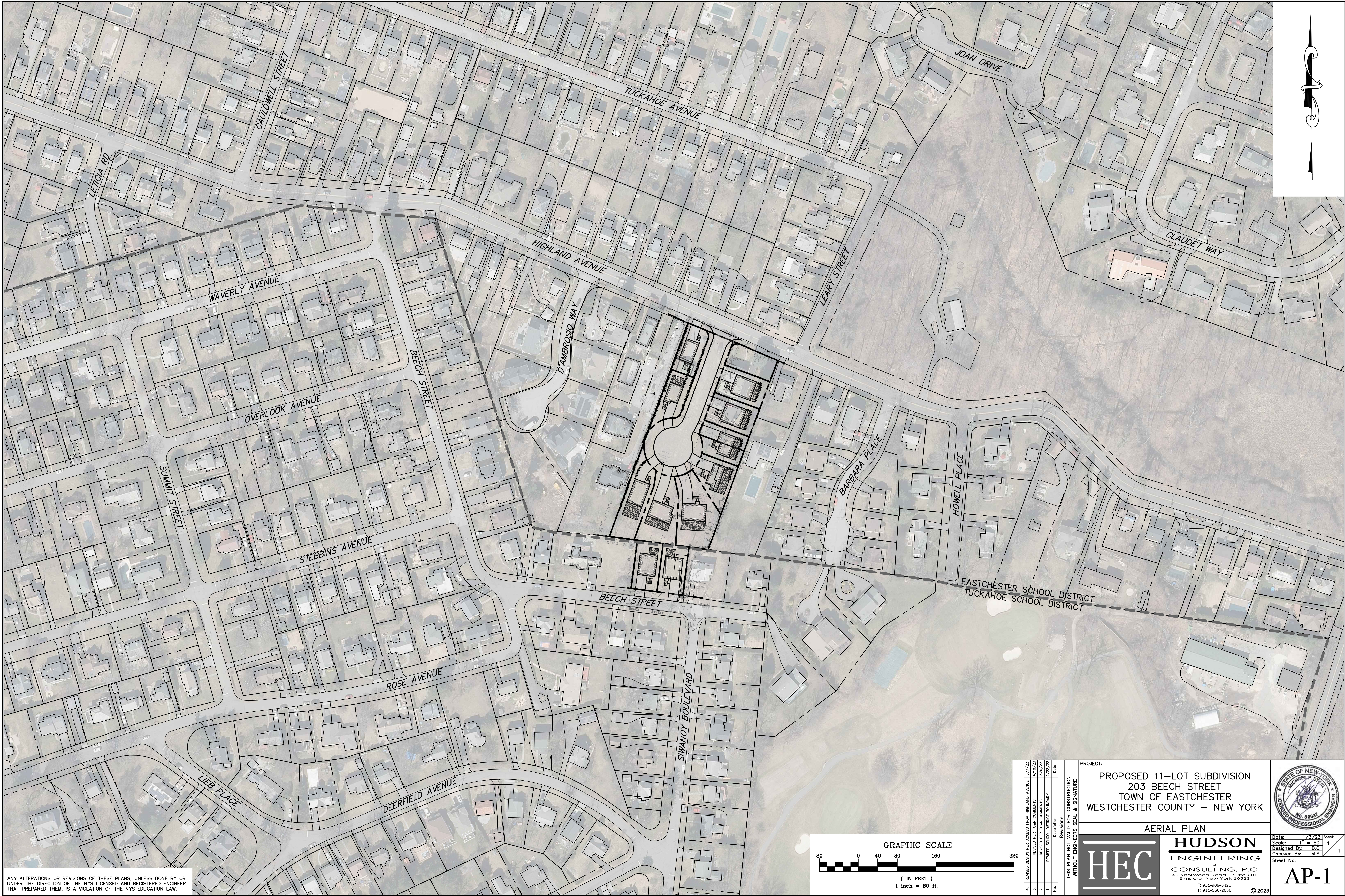


Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwater@hydro-int.com

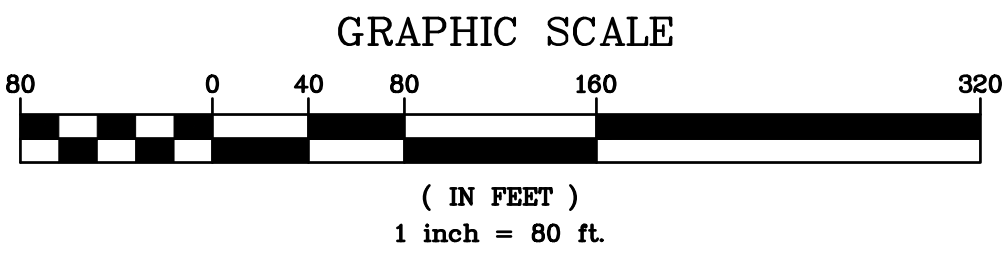
CAD Ref: SIZING CALC DWG
Project No.
Drawing No. Rev. A

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3.	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/24
2.	REVISED PER TOWN COMMENTS	4/10/23
1.	REVISED PER TOWN COMMENTS	3/8/23
No.	Description	Date
Revisions		
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		



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Revisions	Date
4. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
3. REVISED PER TOWN COMMENTS	4/10/23
2. REVISED PER TOWN COMMENTS	3/9/23
1. REVISED SCHOOL DISTRICT BOUNDARY	2/23/23
0. ORIGINAL	

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PROJECT:

PROPOSED 11-Lot SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY – NEW YORK

AERIAL PLAN

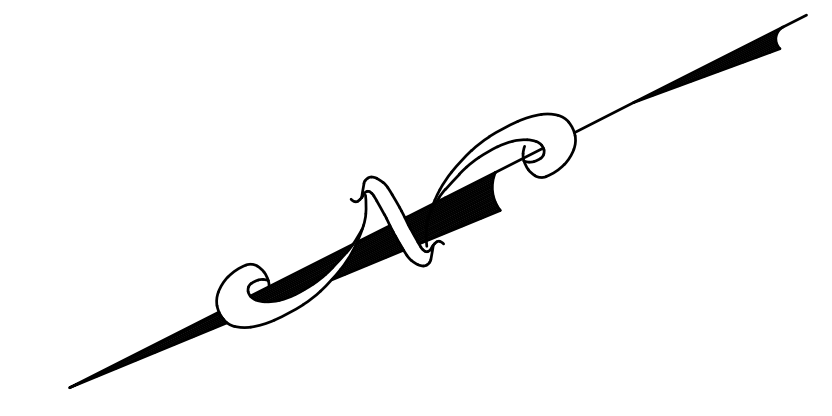
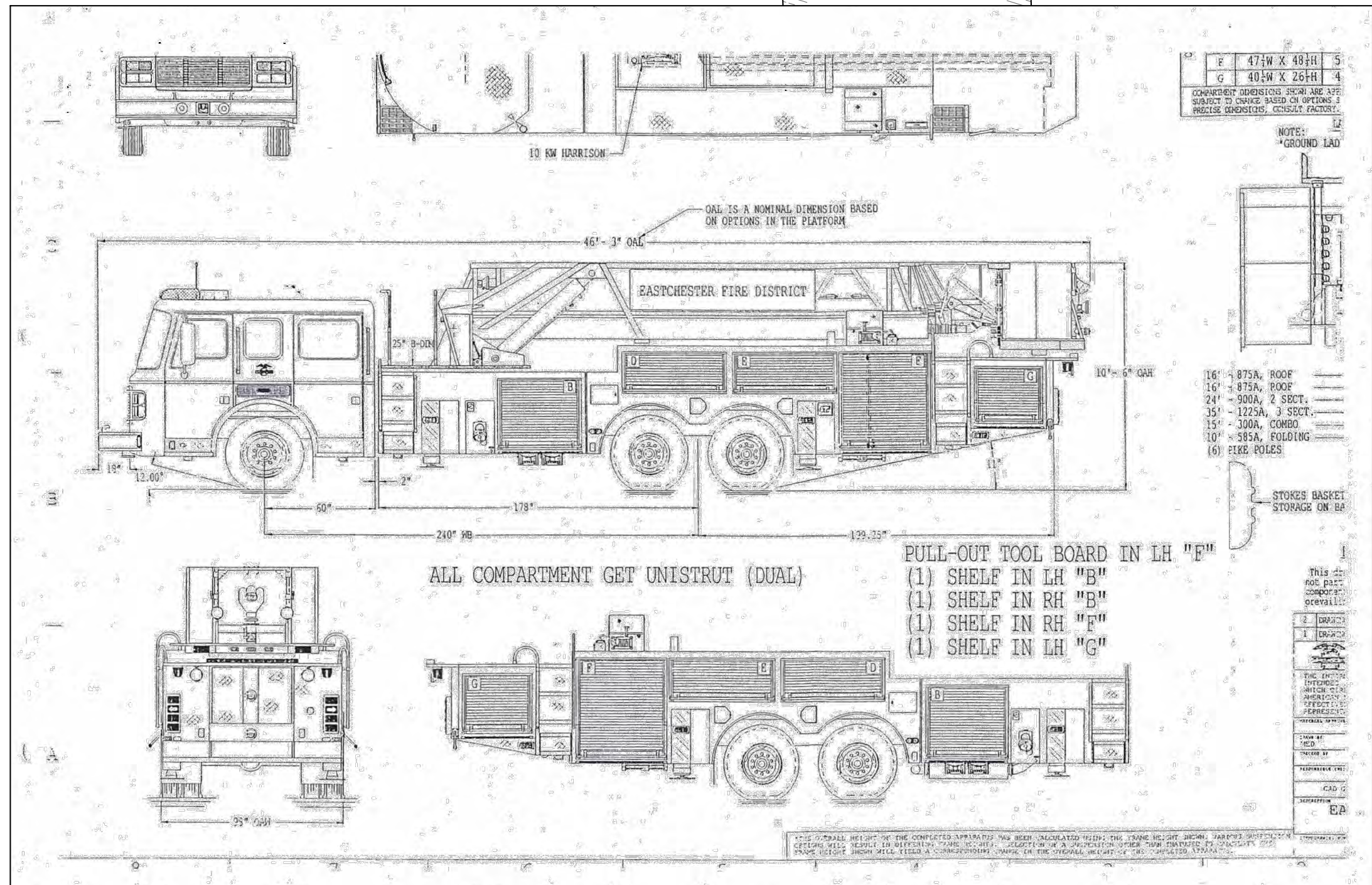
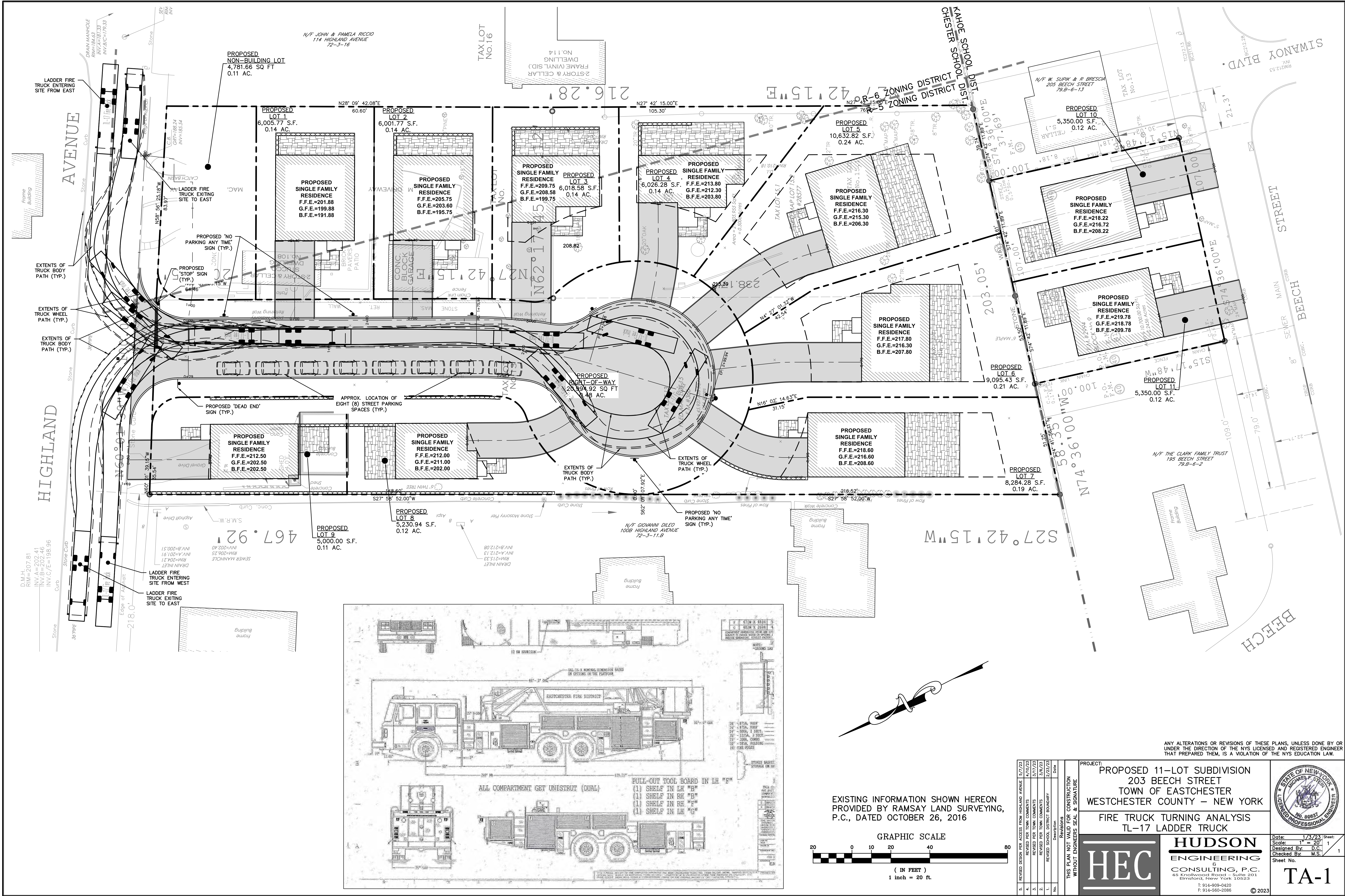
HEC

HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road – Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2023

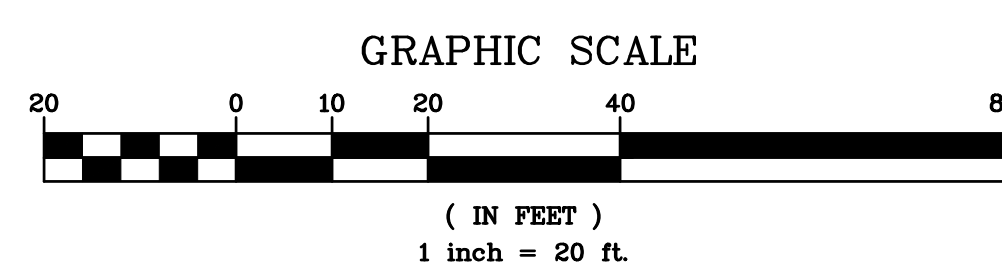
STATE OF NEW YORK
MICHAEL J. STERN
LICENSED PROFESSIONAL ENGINEER
No. 90851

Date: 1/3/23 Sheet: 1
Scale: 1" = 80'
Designed By: D.C.
Checked By: M.S.
Sheet No.

AP-1



EXISTING INFORMATION SHOWN HEREON
PROVIDED BY RAMSAY LAND SURVEYING,
P.C., DATED OCTOBER 26, 2016



No.	Revisions	Date
5.	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/23
4.	REVISED PER TOWN COMMENTS	4/10/23
3.	REVISED PER TOWN COMMENTS	3/17/23
2.	REVISED PER TOWN COMMENTS	3/9/23
1.	REVISED PER TOWN COMMENTS	2/22/23
0.	REVISED PER TOWN COMMENTS	2/22/23

PROJECT: PROPOSED 11-LOT SUBDIVISION
203 BEECH STREET
TOWN OF EASTCHESTER
WESTCHESTER COUNTY – NEW YORK

FIRE TRUCK TURNING ANALYSIS
TL-17 LADDER TRUCK

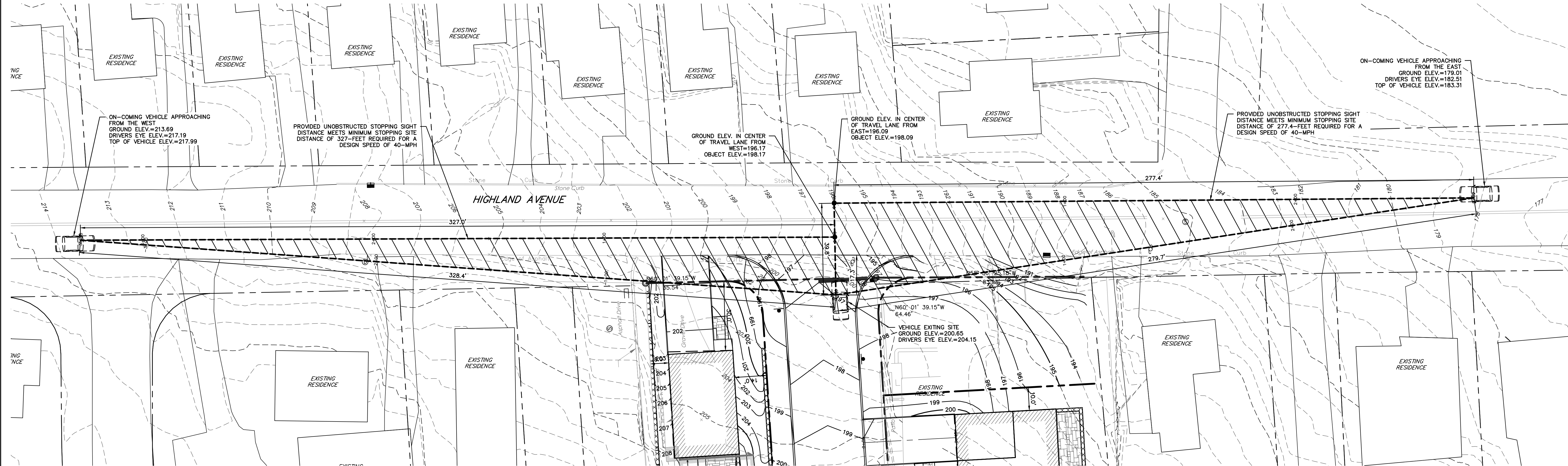
HEC
HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road – Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

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THIS PLAN NOT VALID FOR CONSTRUCTION
WITHOUT ENGINEERS SEAL & SIGNATURE

State of New York
Professional Engineer
Michael P. Stepien
No. 06067

Date: 1/3/23 Sheet: 1
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. TA-1

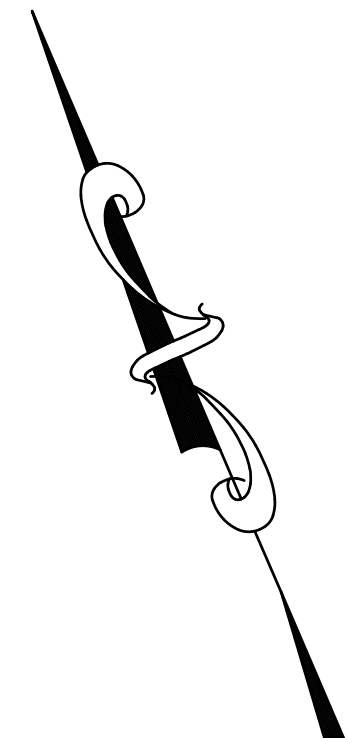


Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt + d_b$	
Posted Speed Limit =	40 mph
Design Speed Limit (V) =	(85th Percentile)
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	-5%
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	180 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	327 (ft) design
Approaching Ground Elev. =	213.69 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	217.19 (ft)
Ground Elev. at Object at Driveway =	196.17 (ft)
Min. Height of Object at Driveway =	2.0 (ft)
Elev. of Object at Driveway =	198.17 (ft)

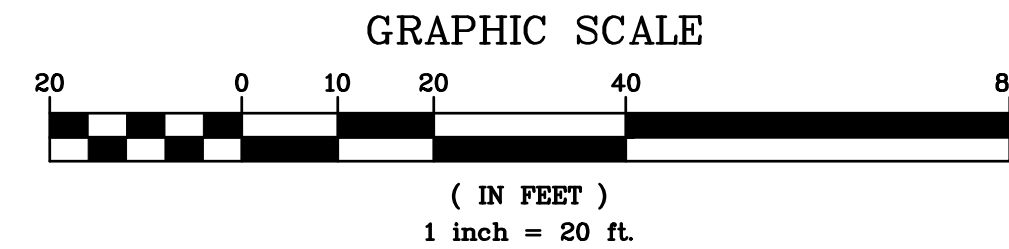
SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM WEST)

Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt + d_b$	
Posted Speed Limit =	40 mph
Design Speed Limit (V) =	(85th percentile)
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	6.5%
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	130 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	277 (ft) design
Approaching Ground Elev. =	179.01 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	182.51 (ft)
Ground Elev. at Object at Driveway =	196.09 (ft)
Min. Height of Object at Driveway =	2.0 (ft)
Elev. of Object at Driveway =	198.09 (ft)

SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM EAST)



EXISTING INFORMATION SHOWN HEREON
PROVIDED BY RAMSAY LAND SURVEYING, P.C.,
DATED OCTOBER 26, 2016 AND SUPPLEMENTED
WITH ADDITIONAL INFORMATION PROVIDED BY
WESTCHESTER COUNTY GIS



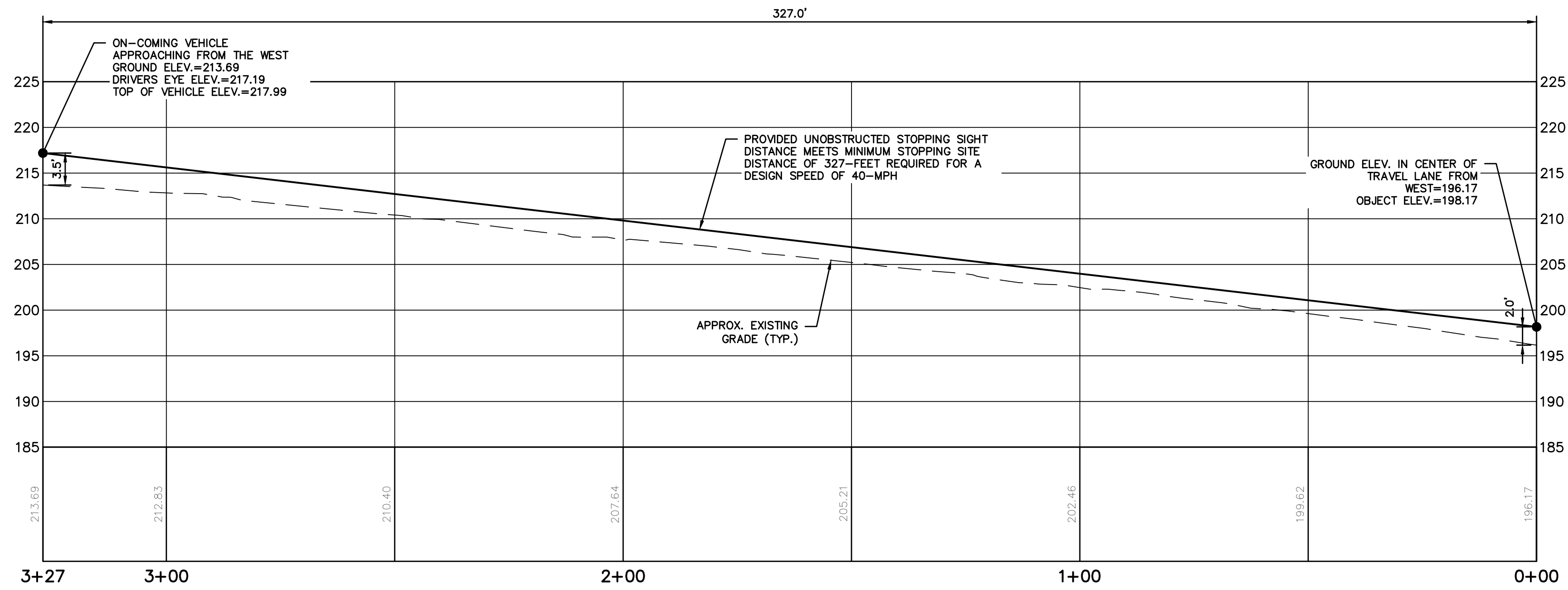
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2	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/24
	REVISED FOR TOWN COMMENTS	7/9/23
No.	Revisions	Date
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		
PROJECT: PROPOSED SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK		
SIGHT DISTANCE PLAN		
HEC HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086		
Date: 1/3/23 Sheet: 1 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 5		
SD-1		

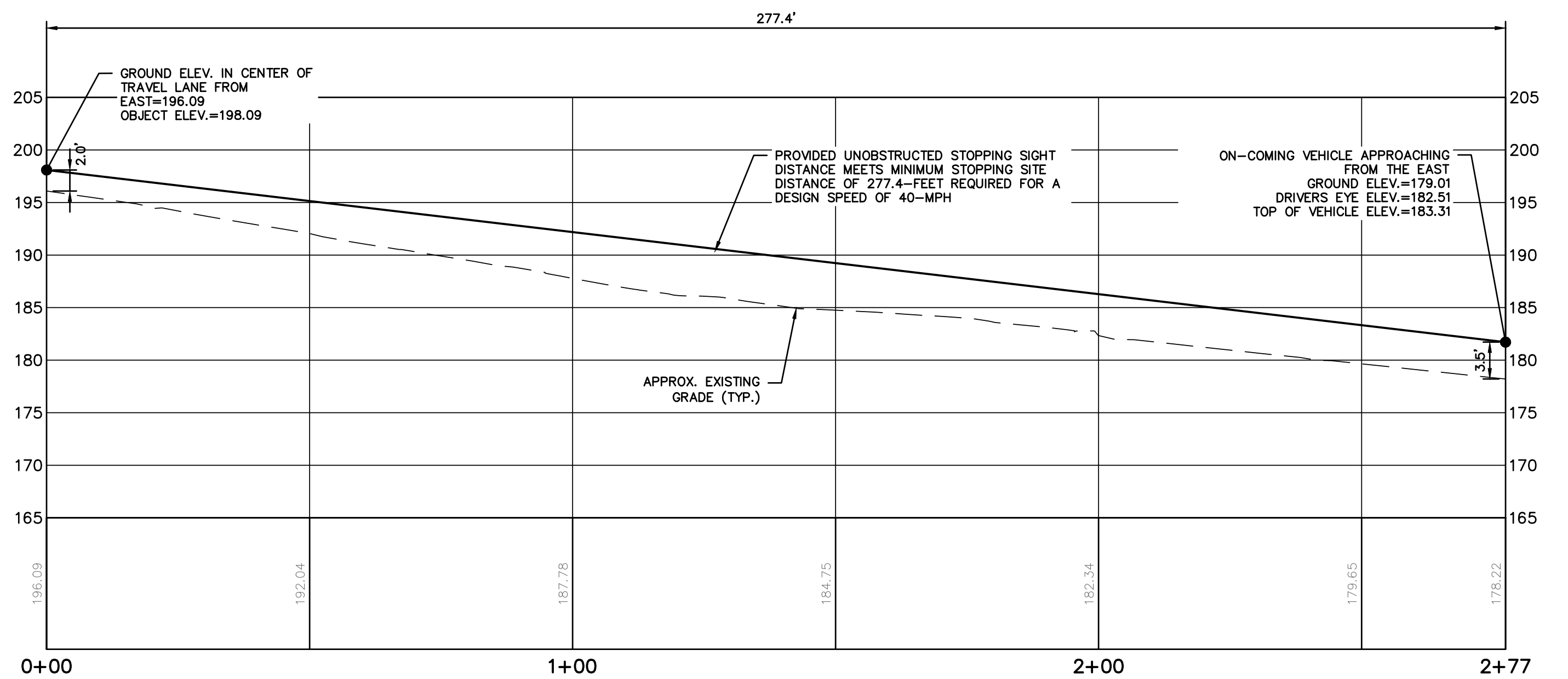


Date: 1/3/23 Sheet: 1
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 5

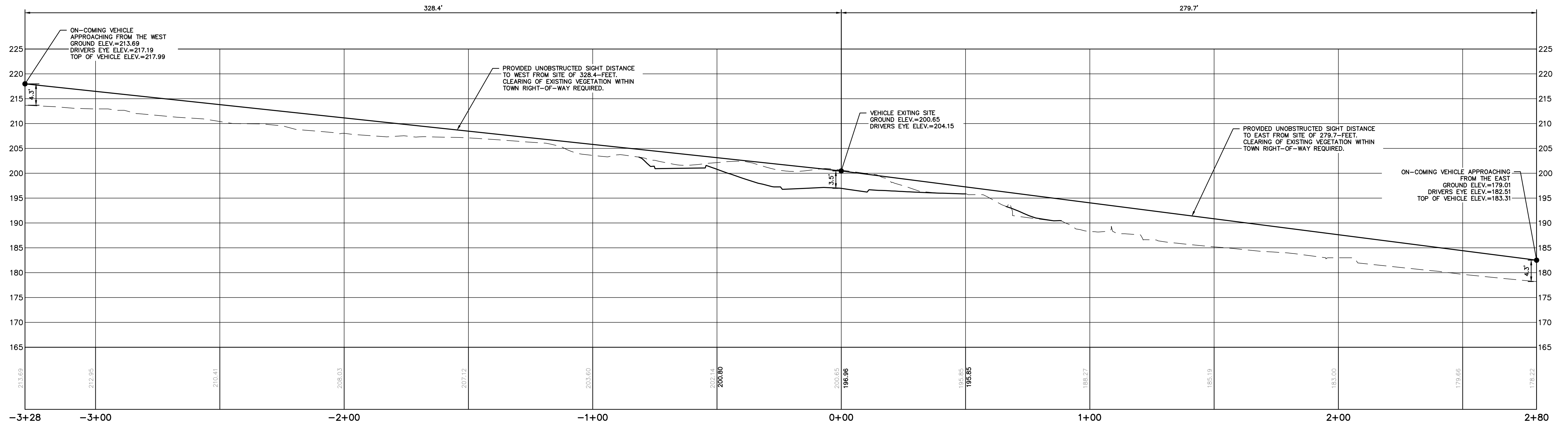
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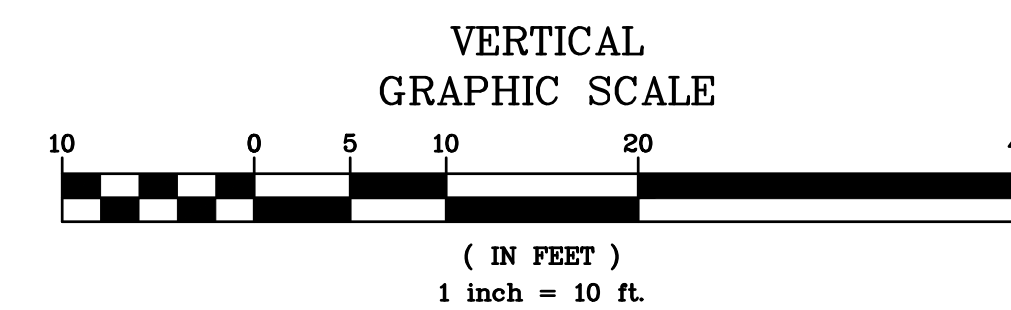
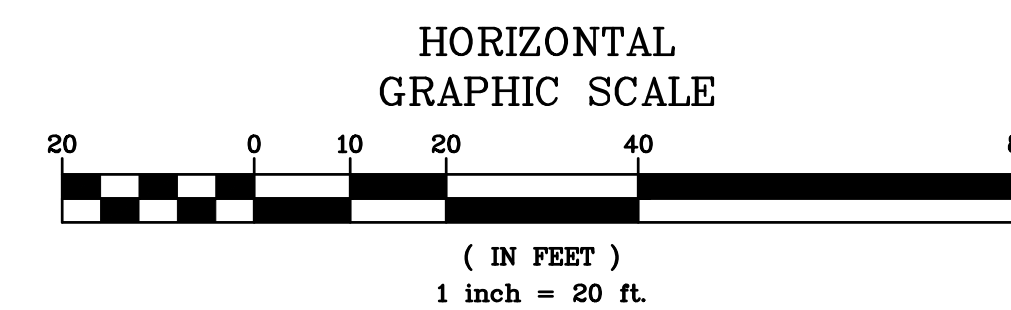
SIGHT DISTANCE PROFILE
(STA. 0+00 TO STA. 3+27)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(APPROACHING FROM WEST)



SIGHT DISTANCE PROFILE
(STA. 0+00 TO STA. 2+77)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(APPROACHING FROM EAST)



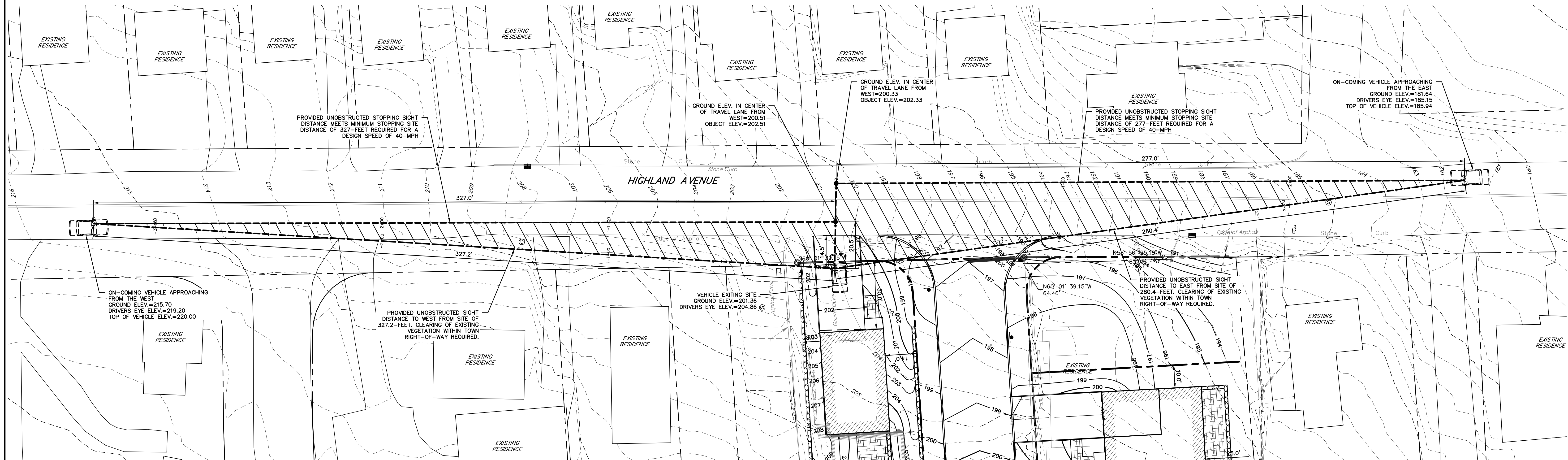
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(STA. -3+28 TO STA. 2+80)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(EXITING VEHICLE)



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2. REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE 5/7/24		PROJECT: PROPOSED SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK		
2. REVISED DESIGN PER COMMENTS 7/6/23		SIGHT DISTANCE PROFILES		
Revisions		Date: 7/3/23 Sheet: 2		 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2024
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		Scale: AS NOTED Designed By: D.C. Checked By: M.S. Sheet No. 5		

SD-2

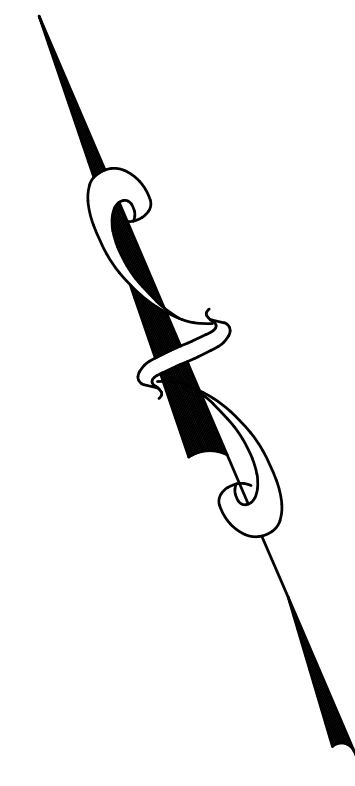


Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt + d_b$	
Posted Speed Limit =	40 mph
Design Speed Limit (V) =	(85th Percentile)
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	-5%
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	180 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	327 (ft) design
Approaching Ground Elev. =	215.70 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	219.20 (ft)
Ground Elev. at Object at Driveway =	200.51 (ft)
Min. Height of Object at Driveway =	2.0 (ft)
Elev. of Object at Driveway =	202.51 (ft)

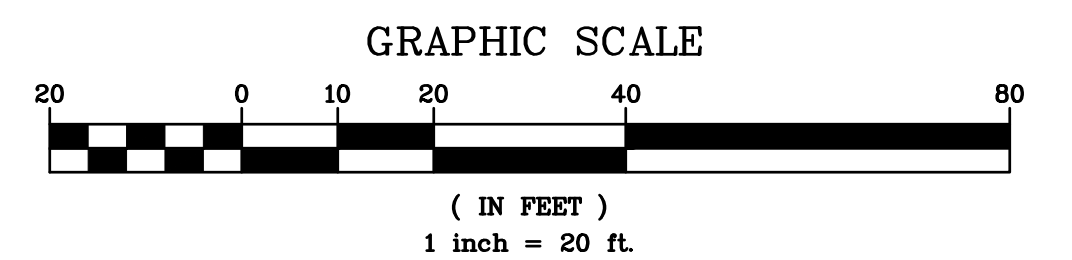
SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM WEST)

Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt + d_b$	
Posted Speed Limit =	40 mph
Design Speed Limit (V) =	(85th percentile)
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	6.5%
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	130 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	277 (ft) design
Approaching Ground Elev. =	179.01 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	182.51 (ft)
Ground Elev. at Object at Driveway =	197.22 (ft)
Min. Height of Object at Driveway =	2.0 (ft)
Elev. of Object at Driveway =	199.22 (ft)

SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM EAST)



EXISTING INFORMATION SHOWN HEREON
PROVIDED BY RAMSAY LAND SURVEYING, P.C.,
DATED OCTOBER 26, 2016 AND SUPPLEMENTED
WITH ADDITIONAL INFORMATION PROVIDED BY
WESTCHESTER COUNTY GIS



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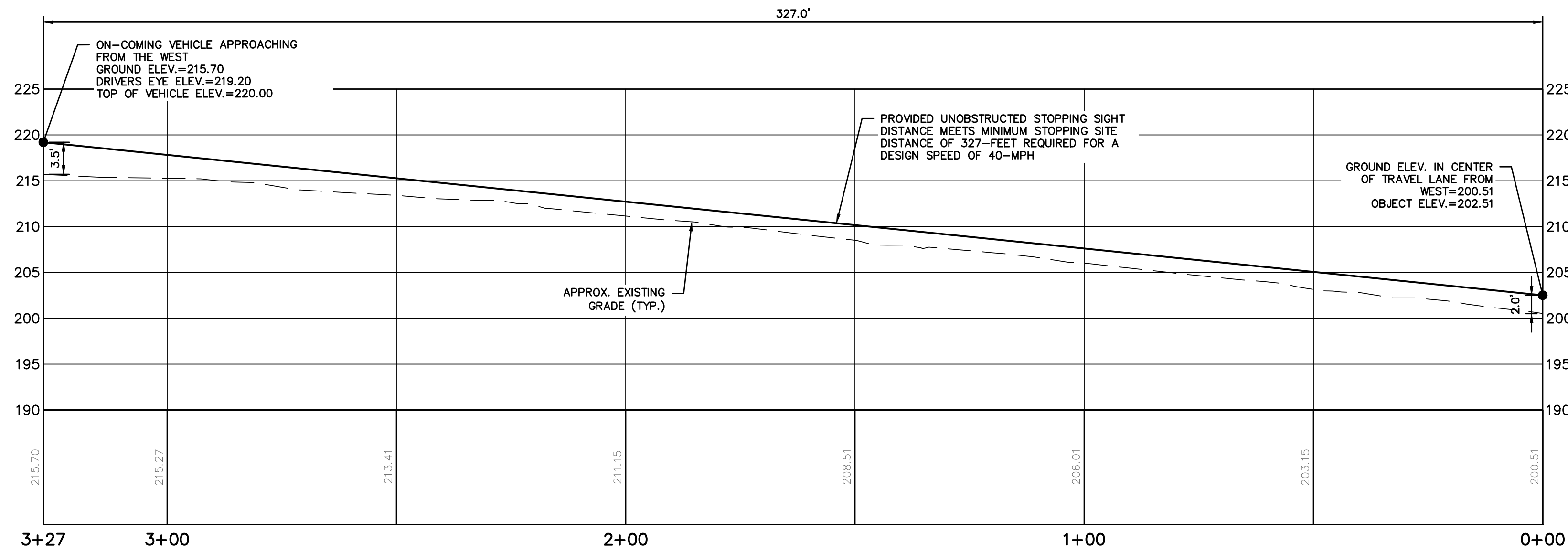
2	REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/24
1	REVISED FOR TOWN COMMENTS	7/9/23
0	Original	1/3/23
Revisions		
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		
PROJECT: PROPOSED SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK		
SIGHT DISTANCE PLAN		
HEC HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-409-0420 F: 914-560-2086		
Date: 1/3/23 Sheet: 3 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 5		
SD-3		



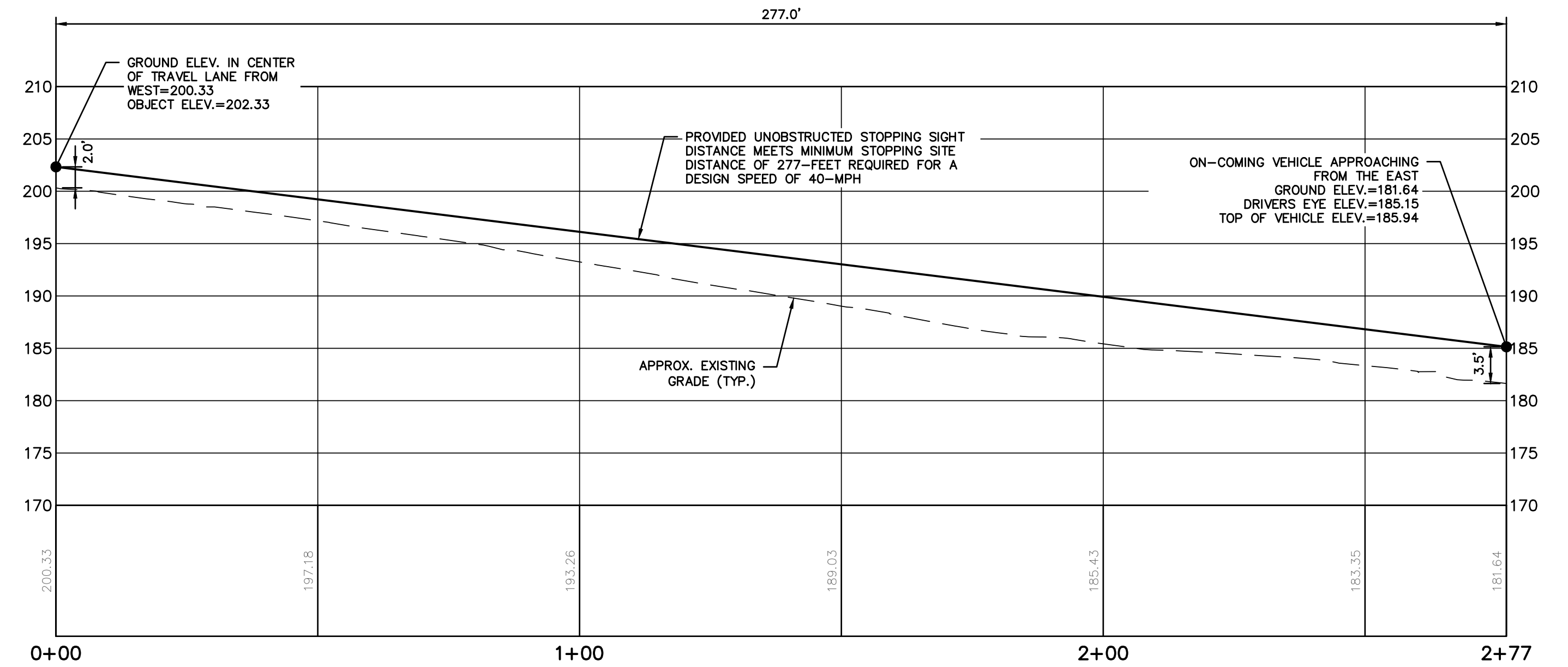
Date: 1/3/23 Sheet: 3
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet No. 5

SD-3

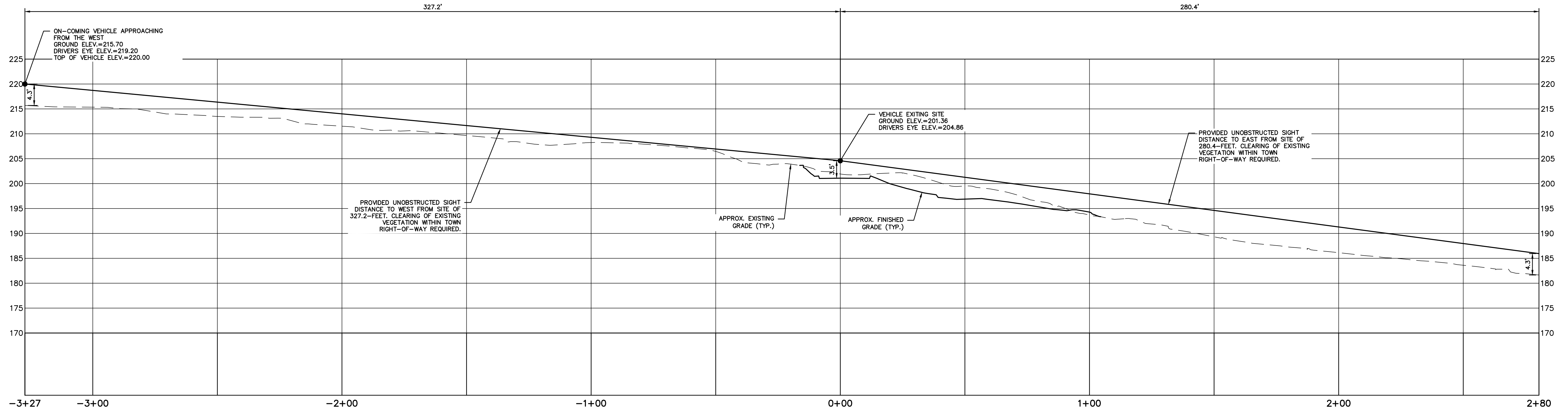
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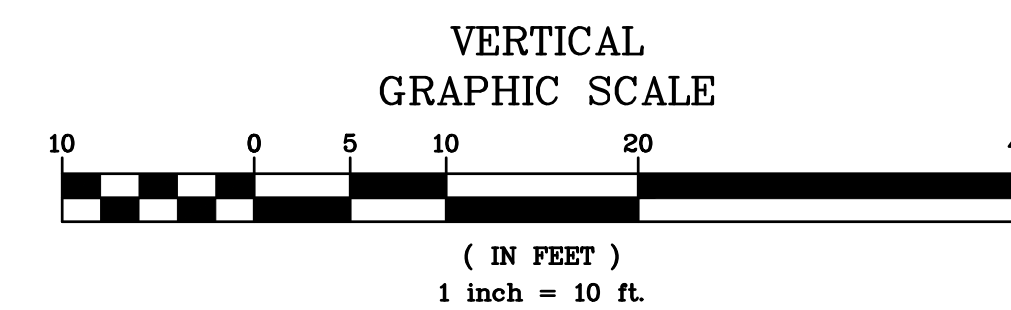
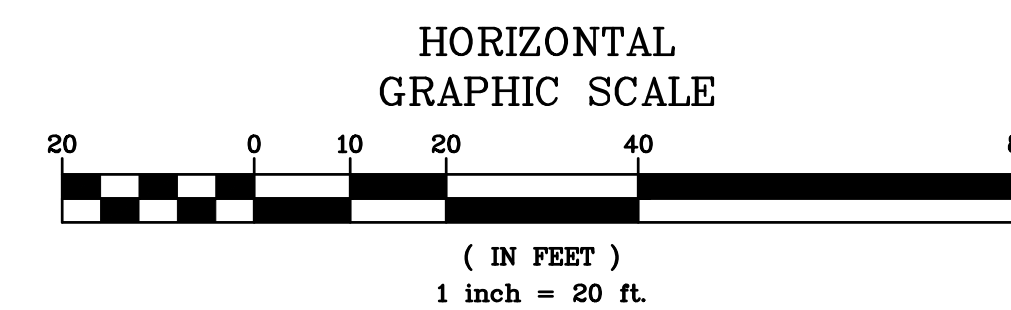
SIGHT DISTANCE PROFILE
(STA. 0+00 TO STA. 3+27)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(APPROACHING FROM WEST)



SIGHT DISTANCE PROFILE
(STA. 0+00 TO STA. 2+77)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(APPROACHING FROM EAST)



SIGHT DISTANCE PROFILE
(STA. -3+27 TO STA. 2+80)
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'
(EXITING VEHICLE - LOT 9)



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2		REVISED DESIGN PER ACCESS FROM HIGHLAND AVENUE	5/7/24
2		REVISED DESIGN PER COMMENTS	7/9/23
No.		Revisions	Date
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE			
PROJECT: PROPOSED SUBDIVISION 203 BEECH STREET TOWN OF EASTCHESTER WESTCHESTER COUNTY - NEW YORK			
SIGHT DISTANCE PROFILES			
HEC		HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086	
Date: 7/9/23		Sheet: 4	
Scale: AS NOTED		Designed By: D.C.	
Checked By: M.S.		Sheet No. 5	
SD-4		© 2024	



