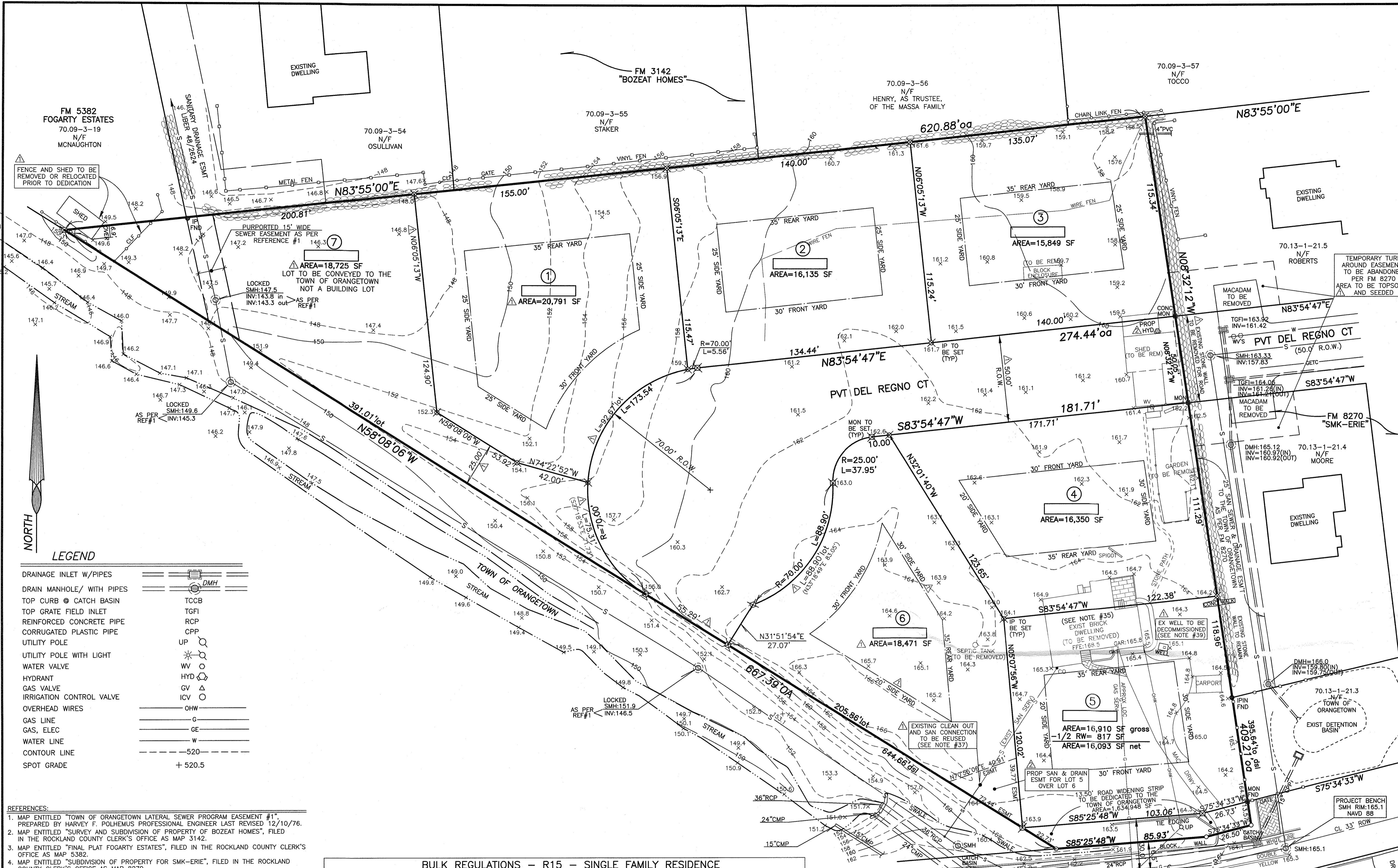


SUBDIVISION NOTES:

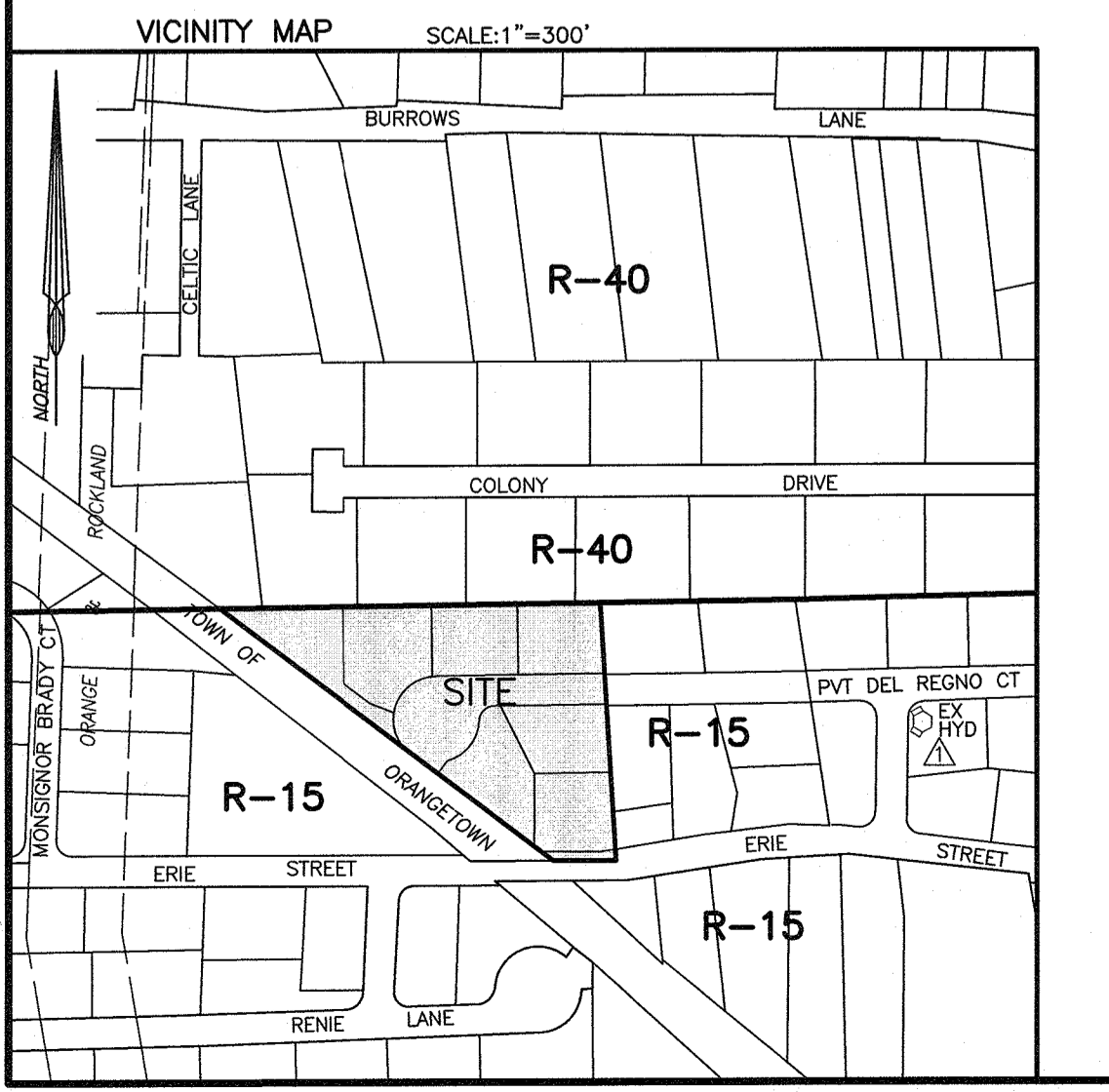
- THIS IS A SUBDIVISION OF TAX LOT 70.13-1-20 AS SHOWN ON THE TOWN OF ORANGETOWN TAX MAPS.
- RECORD OWNER: SMK HOME BUILDERS, 24 WATERS EDGE, CONGERS, NY 10920
- APPLICANT: SAME AS ABOVE
- NUMBER OF LOTS: 1 EXISTING, 7 PROPOSED (ONE LOT TO BE CONVEYED TO THE TOWN OF ORANGETOWN)
- AREA = 150,537 SF = 3.456 AC
- ZONE: R-15
- ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
- THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP, AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239 L&N OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
- THIS PLAN IS SUBJECT TO DETAILS OF GRADING, ROADS AND UTILITIES AS SHOWN ON CONSTRUCTION PLANS APPROVED BY THE PLANNING BOARD AND FILED WITH THE TOWN CLERK. LOT DRAINAGE SHOWN ON SUCH PLANS SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND & SHALL NOT BE DISTURBED.
- ANY EXISTING UTILITIES (POLES, HYDRANTS, ETC.) AFFECTED BY CONSTRUCTION OF THIS SITE PLAN SHALL BE RELOCATED AT THE DEVELOPER'S EXPENSE PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
- NO BUILDING PERMIT SHALL BE ISSUED UNTIL SITE PLANS HAVE BEEN APPROVED BY ACBOR AND/OR HAER.
- NO BUILDING PERMIT SHALL BE ISSUED UNTIL RESULTS OF TEST PITS HAVE BEEN SUBMITTED TO THE BUILDING DEPT.
- MONUMENTS ARE TO BE SET AT ALL CORNERS OF ORIGINAL PARCEL WHERE NOT OTHERWISE MARKED. (SHOWN THUS: X)
- WATER SUPPLY: SUEZ NY
- DATUM: NAVD 88
- NEW TAX LOT NUMBERS SHOWN THUS: 70.13-1-X
- THE NEW CORNERS OF ALL LOTS SHALL BE MARKED WITH METAL RODS 3/4" IN DIAMETER & AT LEAST 30" IN LENGTH, TO BE INSTALLED AFTER FINAL GRADING.
- ALL AREAS DISTURBED BY ON-SITE GRADING SHOULD BE LIMED AND FERTILIZED PRIOR TO SEEDING.
- SIDEWALKS AND CURBS, WHERE REQUIRED, SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY DEPT. SPECIFICATIONS. (SEE APPROVED "GRADING, DRAINAGE & UTILITY PLAN" ON FILE WITH THE TOWN OF ORANGETOWN).
- ALL SEWER CONNECTIONS SHALL BE APPROVED BY THE ORANGETOWN DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING. THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY SANITARY SEWER BEING PERFORMED.
- THE APPLICANT'S ENGINEER SHALL PROVIDE A COPY OF THE FIELD PERC TEST TO THE TOWN OF ORANGETOWN DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING (DEME) AND THE BUILDING DEPT. PRIOR TO THE SIGNING OF THE PLAT, TO ENSURE ADEQUACY OF DESIGNED DRAINAGE SYSTEM.
- AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES & VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPT. SUEZ, HIGHWAYS AND THE OFFICE OF BUILDING, ZONING & PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
- PLANS COMPLY WITH STORMWATER MANAGEMENT PHASE I REGULATIONS.
- ALL LANDSCAPING SHOWN ON THE SUBDIVISION PLANS SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE USE OF THIS SITE. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON.
- PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE APPLICANT SHALL INSTALL THE SOIL EROSION & SEDIMENTATION CONTROL AS REQUIRED BY THE PLANNING BOARD. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE TOWN D.E.M.E. SHALL INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION & SEDIMENTATION CONTROL MEASURES. THE APPLICANT SHALL CONTACT DEME AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
- NO BUILDING PERMIT WILL BE ISSUED UNTIL SEWAGE DISPOSAL ARRANGEMENTS HAVE BEEN APPROVED BY THE ROCKLAND COUNTY DEPT. OF HEALTH AND/OR THE TOWN OF ORANGETOWN.
- SANITARY SEWER INFILTRATION & EXPIRATION LIMIT IS 100 GALLONS PER INCH DIAMETER PER MILE PER DAY. CERTIFICATES OF OCCUPANCY MAY NOT BE REISSUED, NOR ANY OCCUPANCY, UNTIL A CERTIFICATE OF CORRECTIVE ACTION, PREPARED BY A LICENSED PROFESSIONAL ENGINEER, IS SUBMITTED TO AND APPROVED BY THE TOWN OF ORANGETOWN. COPIES OF THIS CERTIFICATE SHOULD ALSO BE SENT TO THE ROCKLAND COUNTY DEPARTMENT OF HEALTH.
- THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO SECTION 21-24 OF THE LAND DEVELOPMENT REGULATIONS OF THE TOWN OF ORANGETOWN WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES. STEPS THAT WILL BE TAKEN TO PRESERVE AND PROTECT EXISTING TREES ARE AS FOLLOWS:
 - IF THE APPLICANT DURING THE COURSE OF CONSTRUCTION, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREAS, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS THAT WERE NOT FORESEEN IN THE ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO DEME. THE APPLICANT SHALL SUBMIT THEIR RECOMMENDATIONS AS TO SPECIAL TREATMENT TO BE GIVEN SUCH AREAS TO SECURE ADEQUATE, PERMANENT AND SATISFACTORY CONSTRUCTION. DEME SHALL INVESTIGATE THE CONDITION(S) AND SHALL EITHER APPROVE THE APPLICANT'S RECOMMENDATIONS TO CORRECT THE CONDITION(S), OR ORDER A MODIFICATION THEREOF. IN THE EVENT OF THE APPLICANT'S DISAGREEMENT WITH THE DECISION OF DEME, OR IN THE EVENT OF A SIGNIFICANT CHANGE RESULTING TO THE SUBDIVISION PLAN, OR SITE PLAN, OR ANY CHANGE THAT INVOLVES A WETLAND REGULATED AREA, THE MATTER SHALL BE DECIDED BY THE AGENCY WITH JURISDICTION IN THAT AREA (i.e. WETLANDS-US ARMY CORP OF ENGINEERS)
 - PERMANENT VEGETATION COVER OF DISTURBED AREAS SHALL BE ESTABLISHED ON THE SITE WITHIN THIRTY (30) DAYS OF THE COMPLETION OF CONSTRUCTION.
 - THE PLANNING BOARD SHALL RETAIN CONTROL OVER LIGHTING, LANDSCAPING, SIGNS & REFUSE CONTROL.
 - ALL EXISTING STRUCTURES SHALL BE REMOVED PRIOR TO THE SIGNING OF THE SUBDIVISION PLAT.
 - ROCKLAND COUNTY DEPARTMENT OF HEALTH (RCDOH) APPROVAL IS LIMITED TO 5 YEARS AND SHALL EXPIRE 5 YEARS FROM THE DATE OF THE RCDOH APPROVAL. TIME EXTENSIONS MAY BE GRANTED BY THE RCDOH BASED UPON DEVELOPMENT FACTS AND THE RELEVANT SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
 - IN ORDER FOR THE TOWN OF ORANGETOWN SEWER DEPARTMENT TO CONSIDER ALLOWING THE USE OF THE EXISTING SANITARY HOUSE LATERAL BY PROPOSED LOT 5, THE EXISTING LATERAL SHALL BE TYP'D BY THE APPLICANT/APPLICANT'S CONTRACTOR AND WITNESSED BY THE ORANGETOWN SEWER INSPECTOR. A DETERMINATION WILL THEN BE MADE BY THE ORANGETOWN SEWER INSPECTOR. IF IT IS DETERMINED THAT THE EXISTING LATERAL CANNOT BE USED, A NEW LATERAL SHALL BE INSTALLED FOR SAID LOT 5.
 - A NOTE SHALL BE ADDED TO THE PLANS STATING THAT THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK BEING DONE ON OR NEAR ANY OF THE PROPOSED SANITARY SEWER IMPROVEMENTS AND OR THE PROPOSED SANITARY HOUSE CONNECTIONS.
 - THERE IS AN EXISTING WELL ON THE PROPERTY THAT IS NOTED TO BE DECOMMISSIONED IN ACCORDANCE WITH ARTICLE II OF THE ROCKLAND COUNTY SANITARY CODE. THE DECOMMISSIONING PROCESS INCLUDES SUBMISSION OF AN APPLICATION AND SUBSEQUENT COMPLETION REPORT. A CERTIFICATE OF OCCUPANCY FOR LOT 5 SHALL NOT BE ISSUED UNTIL THIS OFFICE HAS DEEMED THAT THE DECOMMISSIONING IS COMPLETE.



LEGEND

DRAINAGE INLET W/PIPES	
DRAIN MANHOLE/ WITH PIPES	
TOP CURB @ CATCH BASIN	
TOP GRADE FIELD INLET	
REINFORCED CONCRETE PIPE	
CORRUGATED PLASTIC PIPE	
UTILITY POLE	
UTILITY POLE WITH LIGHT	
WATER VALVE	
HYDRANT	
GAS VALVE	
IRRIGATION CONTROL VALVE	
OVERHEAD WIRES	
GAS LINE	
GAS, ELEC	
WATER LINE	
CONTOUR LINE	
SPOT GRADE	

- REFERENCES:**
- MAP ENTITLED "TOWN OF ORANGETOWN LATERAL SEWER PROGRAM EASEMENT #1", PREPARED BY HARVEY F. POLHEMUS PROFESSIONAL ENGINEER LAST REVISED 12/10/76.
 - MAP ENTITLED "SURVEY AND SUBDIVISION OF PROPERTY OF BOZEAT HOMES", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 3142.
 - MAP ENTITLED "FINAL PLAT FOGARTY ESTATES", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 5382.
 - MAP ENTITLED "SUBDIVISION OF PROPERTY FOR SMK-ERIE", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 8270.



BULK REGULATIONS - R15 - SINGLE FAMILY RESIDENCE

REQUIRED	MIN LOT AREA	MIN LOT WIDTH	MIN STREET FRONTAGE	MIN FRONT YARD	MIN SIDE YARD	TOTAL SIDE YARDS	MIN REAR YARD	MAX BLDG HEIGHT	MAX F.A.R.
REQUIRED	15,000 SF	100 FT	75 FT	30 FT	20 FT	50 FT	35 FT	1 FT/FT	0.20
PROVIDED LOT 1	20,791 SF	145±	92.7'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 2	16,135 SF	140±	140.0'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 3	15,849 SF	138±	140.0'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 4	16,350 SF	149±	171.7'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 5	16,910 SF gross 16,093 SF net	126±	129.8'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 6	18,471 SF	137±	163.9'	30+	20+	50+	35+	≤1'/FT	<0.20
PROVIDED LOT 7	18,725 SF								

LOT TO BE DEDICATED TO THE TOWN OF ORANGETOWN (NOT A BUILDING LOT)

DISTRICTS

SCHOOL: SO ORANGETOWN SD392401
 FIRE: BLAUVELT FD001
 WATER: BLAUVELT W001
 LIBRARY: BLAUVELT L002
 AMBULANCE: SO ORANGETOWN AM001
 SEWER: TOWN OF ORANGETOWN

FIRE DEPARTMENT APPROVAL

CHIEF-BLAUVELT FIRE DEPT DATE

HEALTH DEPARTMENT APPROVAL

THIS IS TO CERTIFY THAT THE "SMK ERIE WEST SUBDIVISION" WAS APPROVED ON THE DATE SHOWN BELOW. CONSENT IS HEREBY GIVEN TO THE FILING OF THIS MAP IN THE OFFICE OF THE COUNTY CLERK OF ROCKLAND COUNTY. THIS APPROVAL IS NULL AND VOID IF WATER AND SEWAGE DISPOSAL FACILITIES ARE NOT INSTALLED IN ACCORDANCE WITH THE FILED PLANS OR AMENDMENTS THERETO APPROVED BY THE DEPARTMENT.

SENIOR PUBLIC HEALTH ENGINEER P.E. DATE

OWNERS APPROVAL FOR FILING:

OWNER DATE

APPROVAL-ROCKLAND COUNTY DRAINAGE AGENCY

CHAIRMAN DATE

ORANGETOWN PLANNING BOARD APPROVAL:

10-18-21	DWG .JST
9-22-21	REVISIONS
8-11-21	REVISIONS
DATE	REVISIONS

I HEREBY CERTIFY THAT THIS SUBDIVISION PLAT WAS PREPARED BY ME AND WAS MADE FROM AN ACTUAL SURVEY COMPLETED BY ME ON 11-18-20.

Jay A. Greenwell
 JAY A. GREENWELL, PLS NYS LIC.# 49676

PRELIMINARY

SUBDIVISION OF PROPERTY

SMK ERIE WEST

TOWN OF ORANGETOWN, ROCKLAND COUNTY
 STATE OF NEW YORK

JAY A. GREENWELL, PLS, LLC

SURVEYING - LAND PLANNING
 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
 PHONE 845-357-0830 FAX 845-357-0756
 © 2021 JAY A. GREENWELL PLS, LLC

TAX LOT #
70.13-1-20

AREA
150,537 SF
3.4559 AC

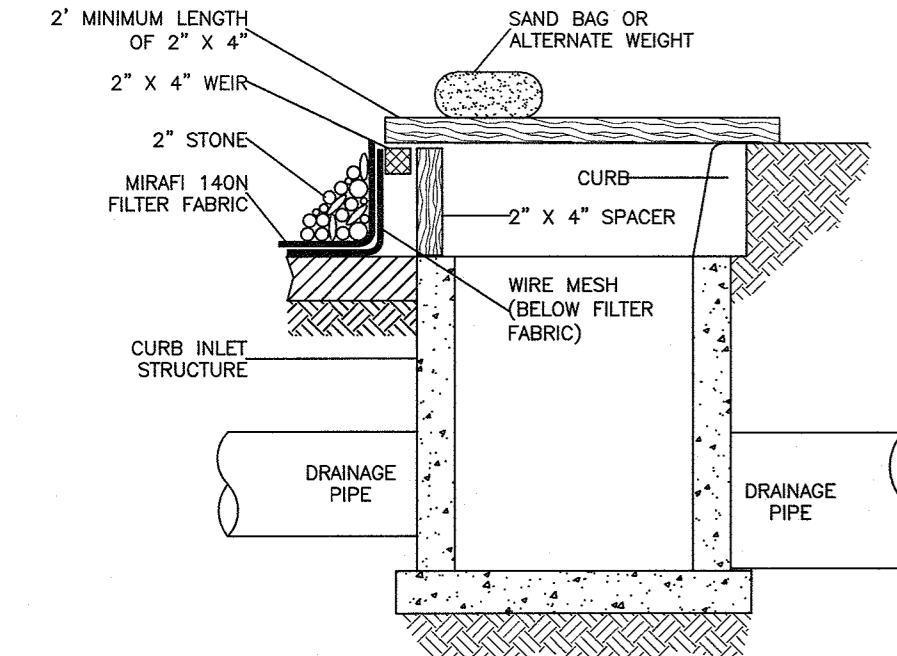
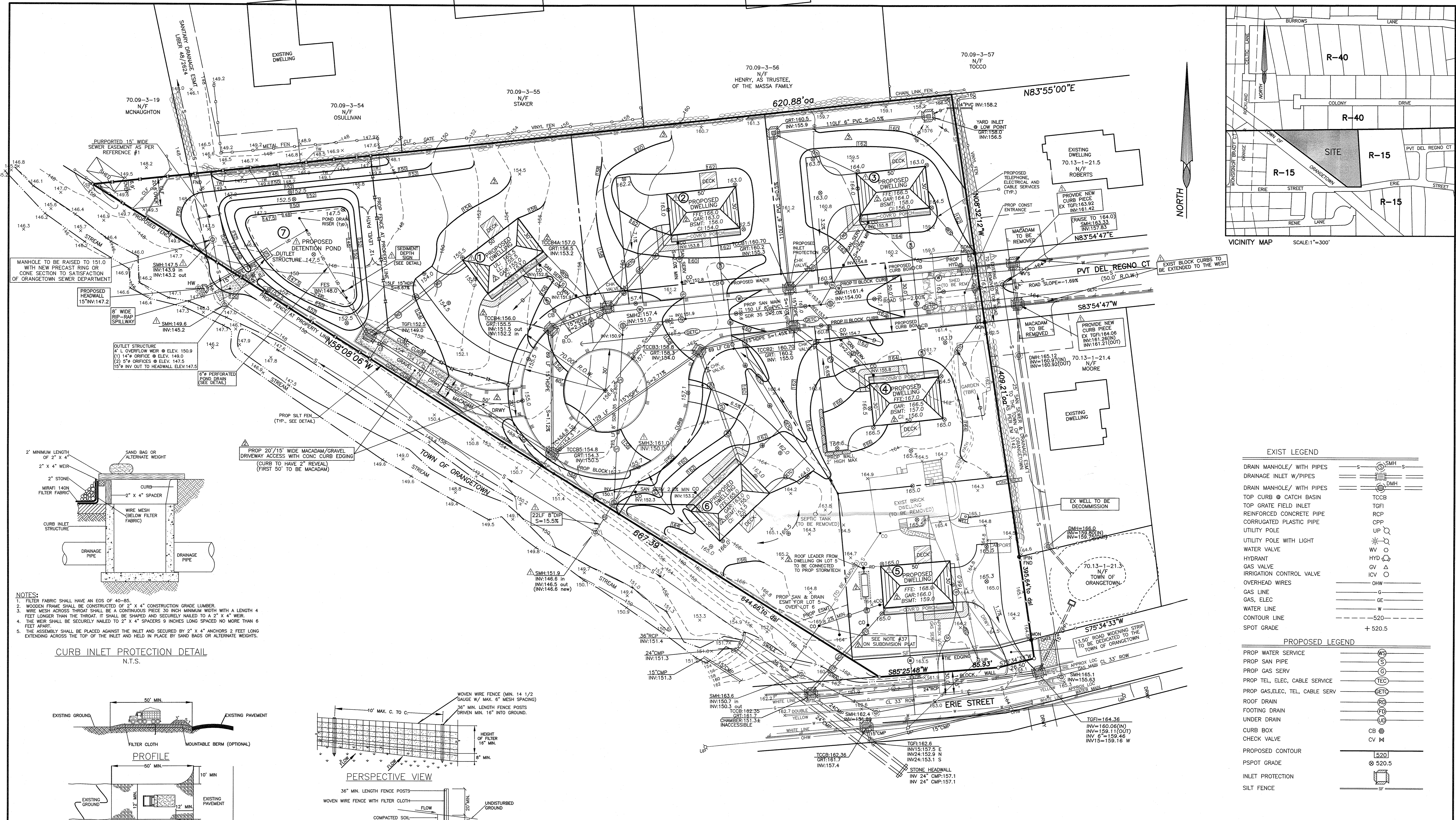
FILE
21232 ERIE WEST SUB 7

SCALE
1"= 30'

DATE
04/22/21

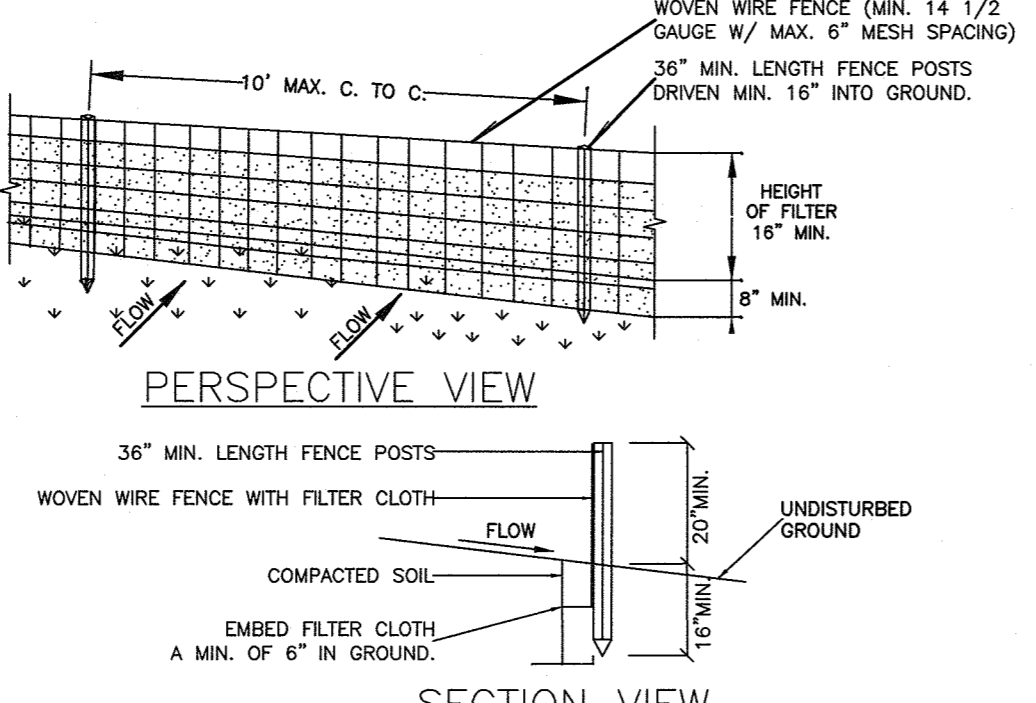
JOB NO.
21232

SHEET 1



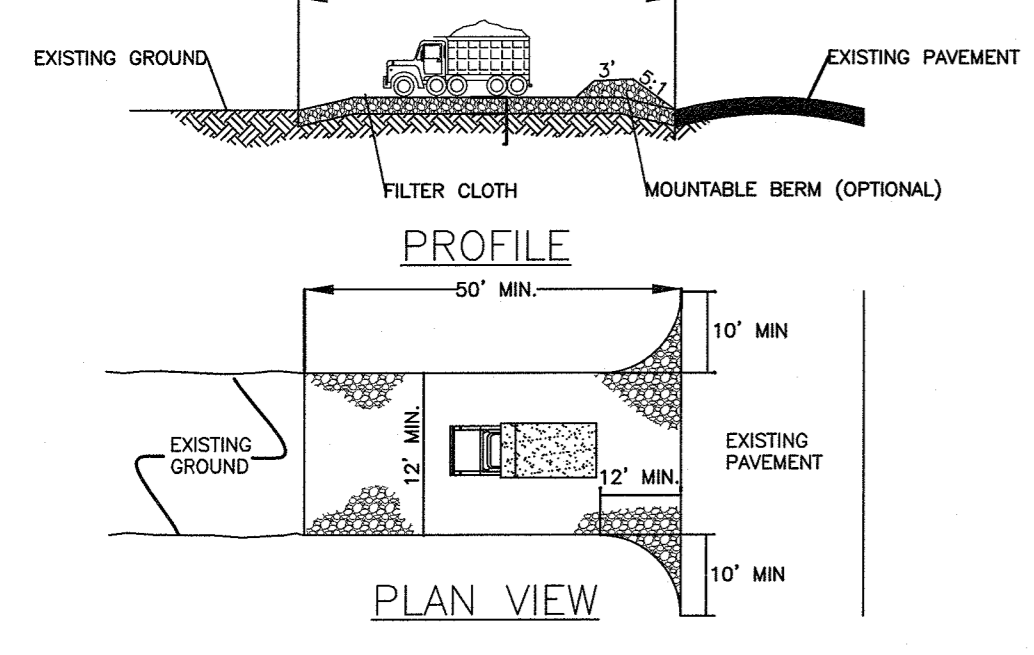
- NOTES:**
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
 2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
 3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY WELDED TO A 2" X 4" WEIR.
 4. THE WEIR SHALL BE SECURELY WELDED TO 2" X 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
 5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" X 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SAND BAGS OR ALTERNATE WEIGHTS.

CURB INLET PROTECTION DETAIL
N.T.S.



- NOTES:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HAWKWOOD.
 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FLAT X, MIRAFI 1400, STABILINA 11400, OR APPROVED EQUIVALENT.
 4. PREFABRICATED UNITS SHALL BE GEOTAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
N.T.S.



- NOTES:**
1. STONE SIZE - USE 1 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE SITE.
 5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH 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 SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. 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.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.

IMPERVIOUS AREA LOTS	
LOT	AREA
1	3,595 SF
2	3,315 SF
3	3,315 SF
4	3,435 SF
5	3,410 SF
6	3,755 SF

EXISTING IMPERVIOUS AREA	5,630 SF = 0.1292 AC
PROPOSED IMPERVIOUS AREA	37,515 SF = 0.8612 AC
LOT AREA	150,537 SF
IMPERVIOUS TO LOT AREA RATIO	0.249

CIVIL DESIGN WORKS LLC
 CIVIL ENGINEERING CONSULTANTS AND DESIGNERS
 WWW.CIVILDESIGNWORKS.COM
 NEW YORK OFFICE (MAIN): 19 SQUADRON BLVD. SUITE 100 NEW YORK, NY 10011
 NEW JERSEY OFFICE: 17 ARROWHEAD ROAD NEW CITY, NEW YORK 10996
 TEL: 845-266-6441 TEL: 201-644-7530

STATE OF NEW YORK
 JAY A. GREENWELL
 LICENSED PROFESSIONAL ENGINEER
 LICENSE NO. 10496

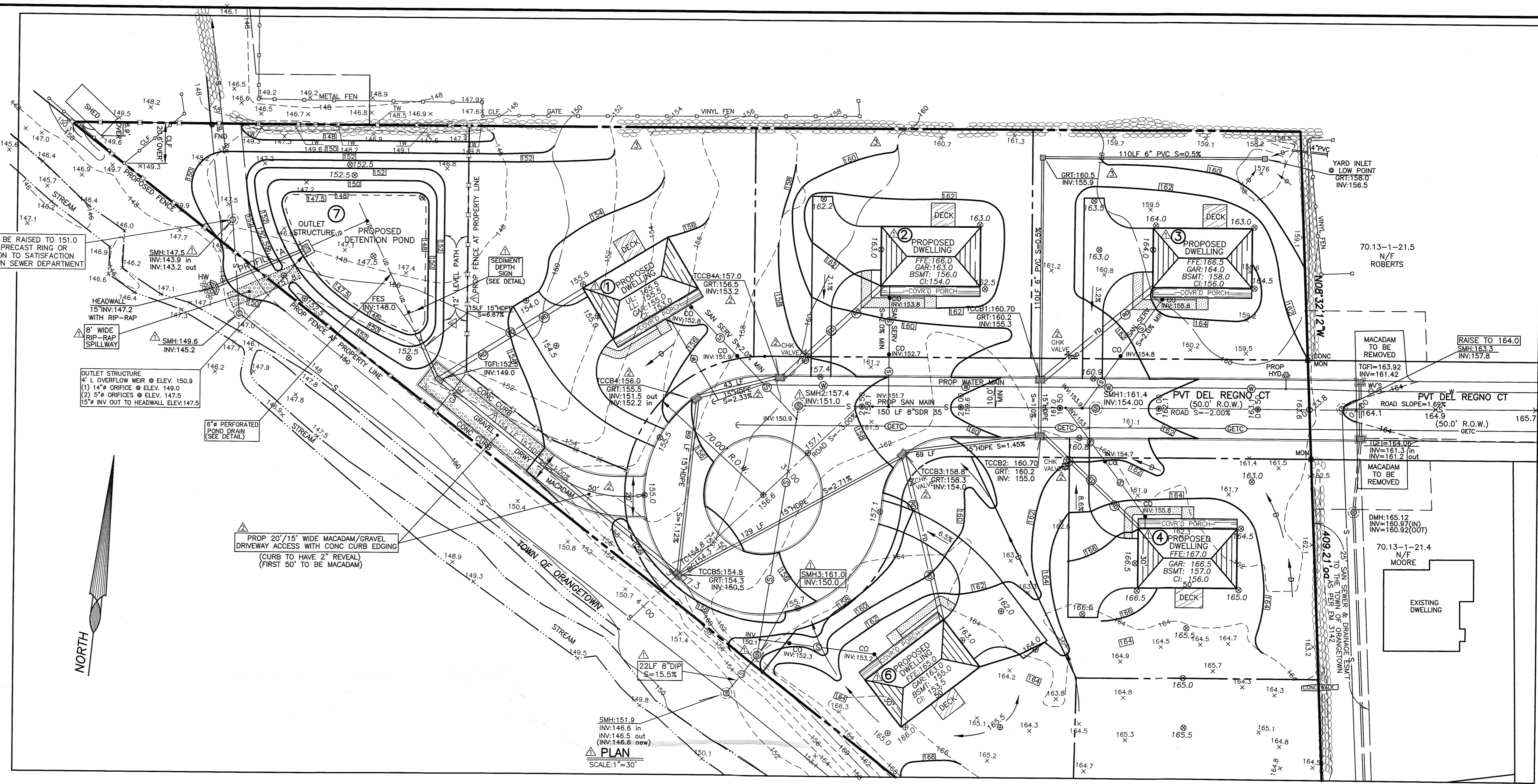
NO.	DATE	REVISIONS
10-18-21		GRADING
9-22-21		REVISIONS
8-11-21		REVISIONS

GRADING, DRAINAGE UTILITIES AND EROSION CONTROL
SMK ERIE WEST
 TOWN OF ORANGETOWN, ROCKLAND COUNTY
 STATE OF NEW YORK
JAY A. GREENWELL, PLS, LLC
 SURVEYING - LAND PLANNING
 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
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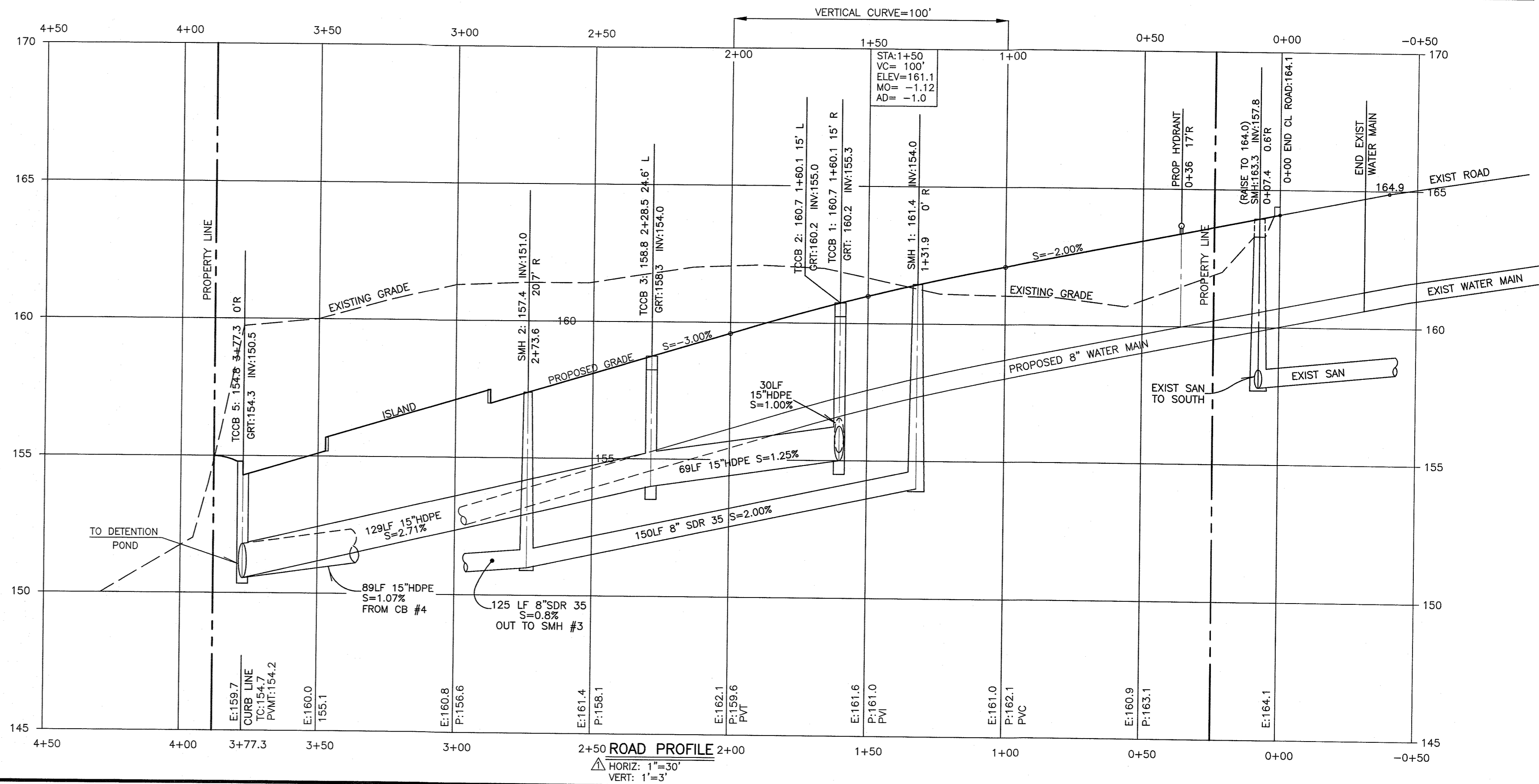
TAX LOT # 70.13-1-20
 AREA 150,537 SF 3,4559 AC
 FILE 21232 ERIE WEST 7 GRAD
 SCALE 1" = 30'
 DATE 04/22/21
 JOB NO. 21232

EXIST LEGEND	
DRAIN MANHOLE/ WITH PIPES	SMH
DRAINAGE INLET W/PIPES	DMH
DRAIN MANHOLE/ WITH PIPES	DMH
TOP CURB @ CATCH BASIN	TCCB
TOP GRATE FIELD INLET	TGFI
REINFORCED CONCRETE PIPE	RCP
CORRUGATED PLASTIC PIPE	CPP
UTILITY POLE	UP
UTILITY POLE WITH LIGHT	UP/L
WATER VALVE	WV
HYDRANT	HYD
GAS VALVE	GV
IRRIGATION CONTROL VALVE	ICV
OVERHEAD WIRES	OHW
GAS LINE	G
GAS, ELEC	GE
WATER LINE	W
CONTOUR LINE	-520
SPOT GRADE	+520.5

PROPOSED LEGEND	
PROP WATER SERVICE	WS
PROP SAN PIPE	S
PROP GAS SERV	C
PROP TEL, ELEC, CABLE SERVICE	TEC
PROP GAS, ELEC, TEL, CABLE SERV	GETC
ROOF DRAIN	RD
FOOTING DRAIN	FD
UNDER DRAIN	UD
PROPOSED CONTOUR	520
PSPOT GRADE	520.5
CHECK VALVE	CV M



WATER MAIN NOTES:
 WATER MAIN TO BE INSTALLED 4'-0" MIN BELOW FINISHED GRADE. MAINTAIN A 10" HORIZONTAL AND 18" VERTICAL SEPARATION FROM THE WATER MAIN AND THE SANITARY SEWER AND DRAINAGE LINES. WHEN NOT APPLICABLE ENCASE WATER MAIN IN CONCRETE FOR A LENGTH OF 10'± ON EACH SIDE OF CROSSING.



FINAL ROAD PROFILE
SMK ERIE WEST

TOWN OF ORANGETOWN, ROCKLAND COUNTY
 STATE OF NEW YORK

JAY A. GREENWELL, PLS, LLC
 SURVEYING - LAND PLANNING
 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
 PHONE 845-357-0830 FAX 845-357-0756
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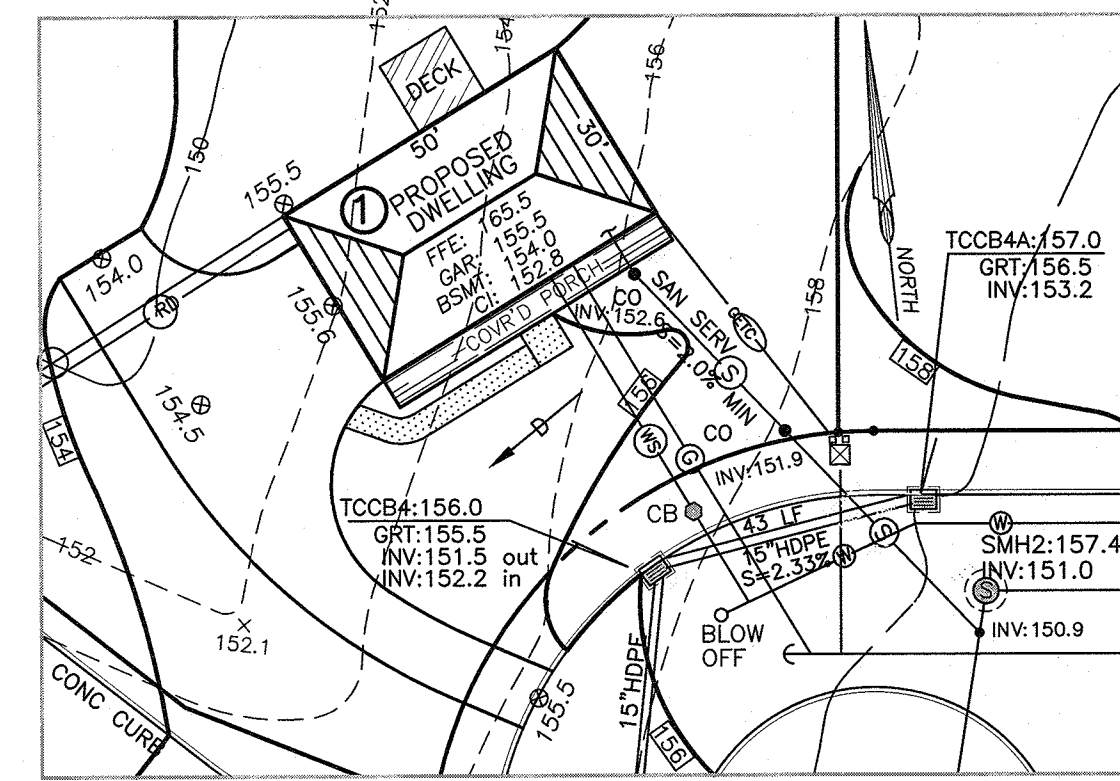
TAX LOT # 70.13-1-20	10-18-21 GRADING
AREA 150,537 SF 3.4559 AC	9-22-21 REVISIONS
FILE 21232 ERIE WEST 7 GRAD	8-11-21 REVISIONS
SCALE 1"= 30'	DATE 04/22/21
DATE 04/22/21	JOB NO. 21232

JAY A. GREENWELL, PLS
 NYS LIC # 49676

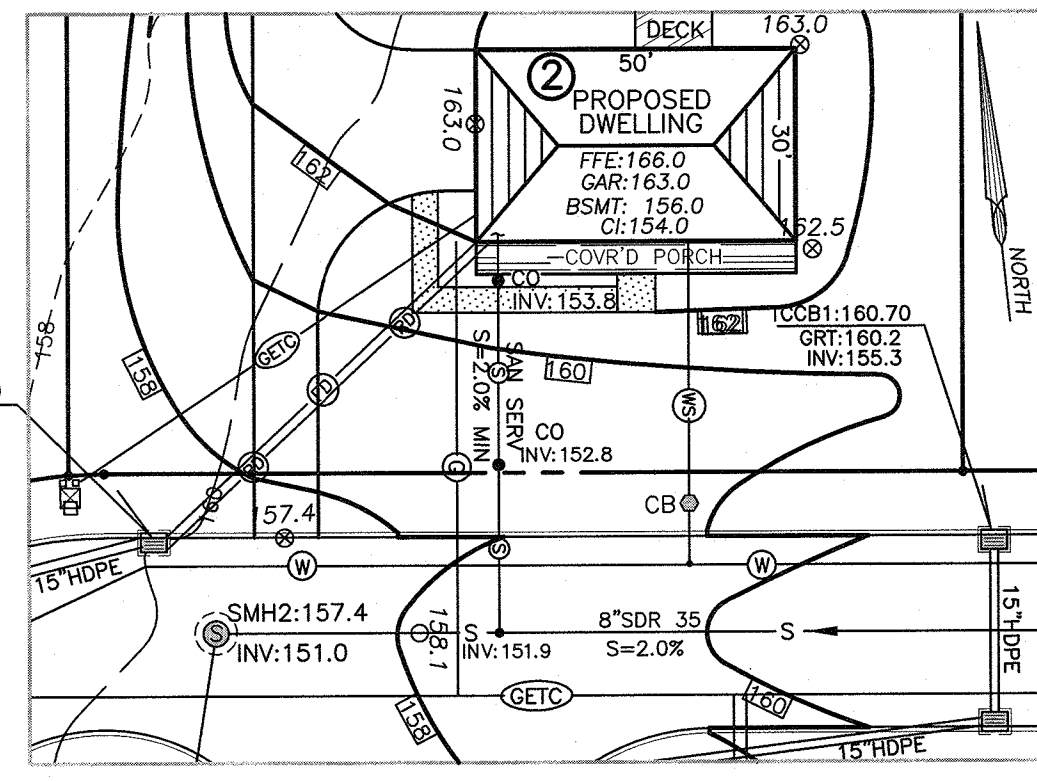
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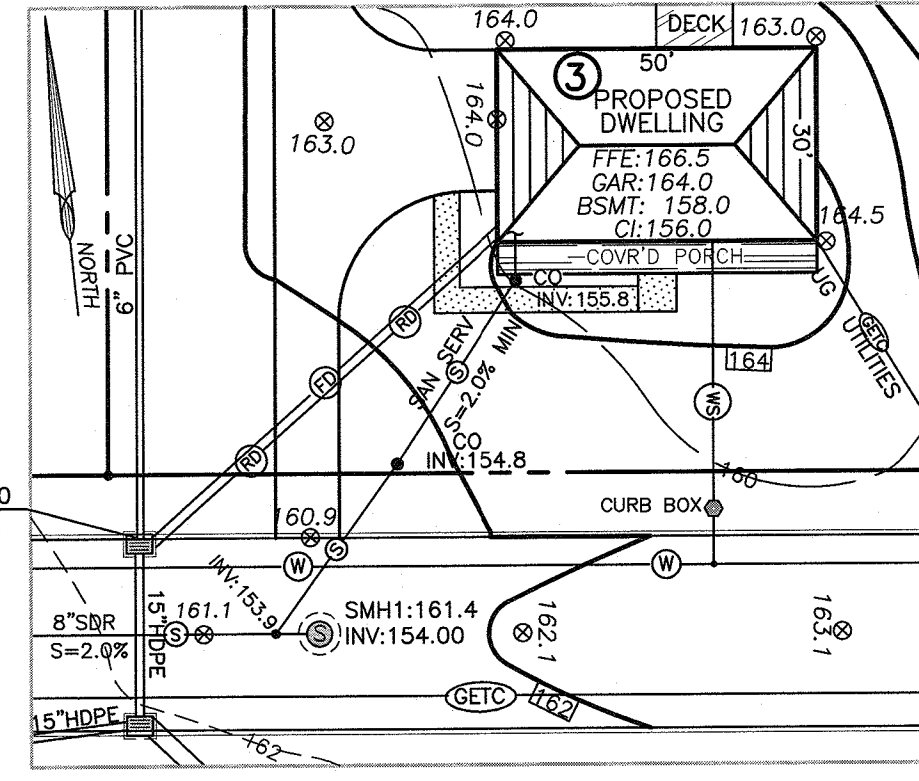
GLENN MCCREEDY, PE
 NYS LIC # 84274



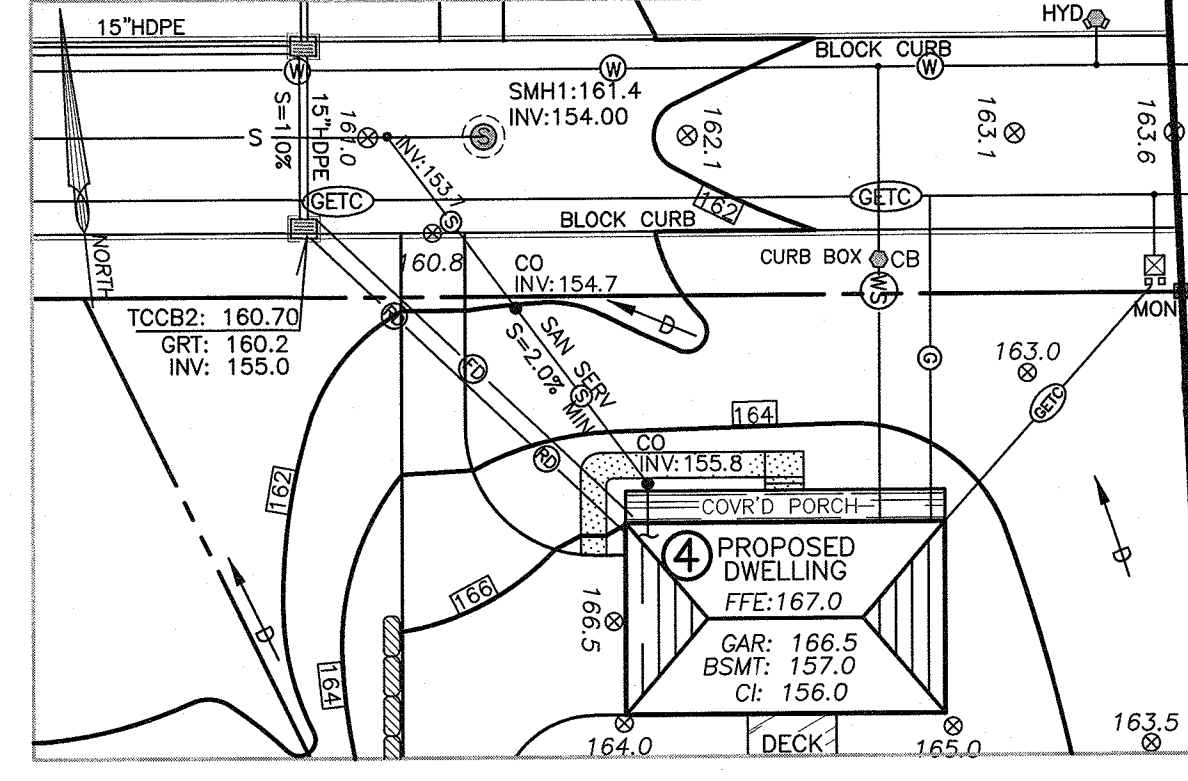
PLAN LOT 1
SCALE: 1"=30'



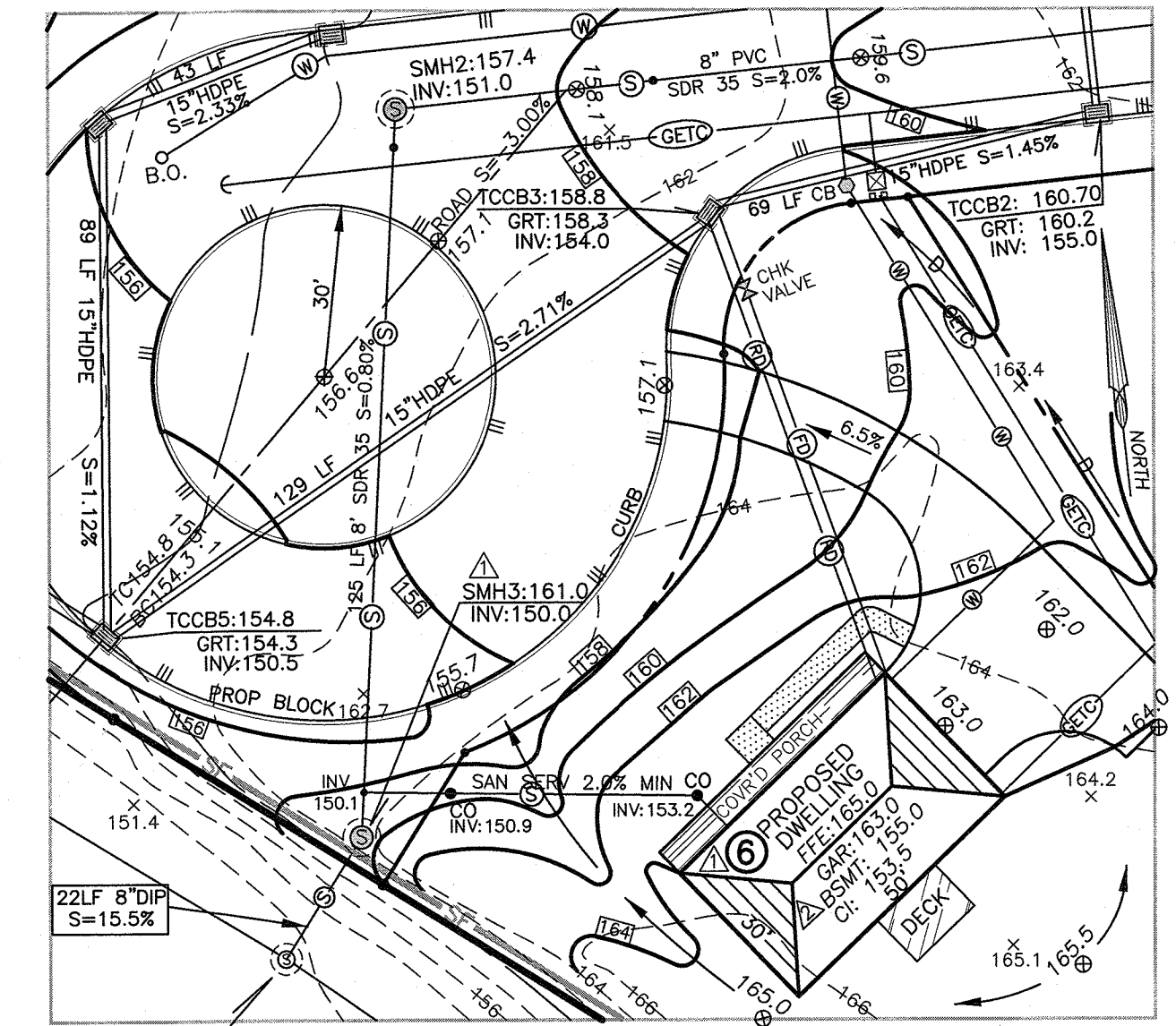
PLAN LOT 2
SCALE: 1"=30'



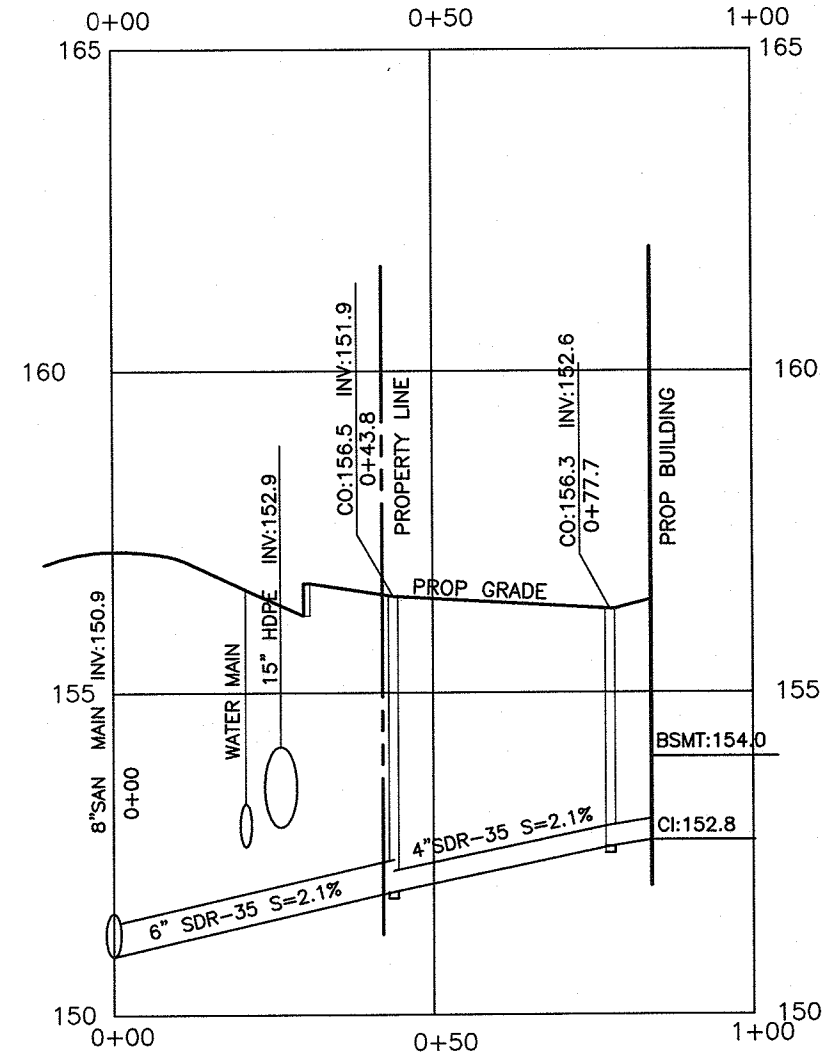
PLAN LOT 3
SCALE: 1"=30'



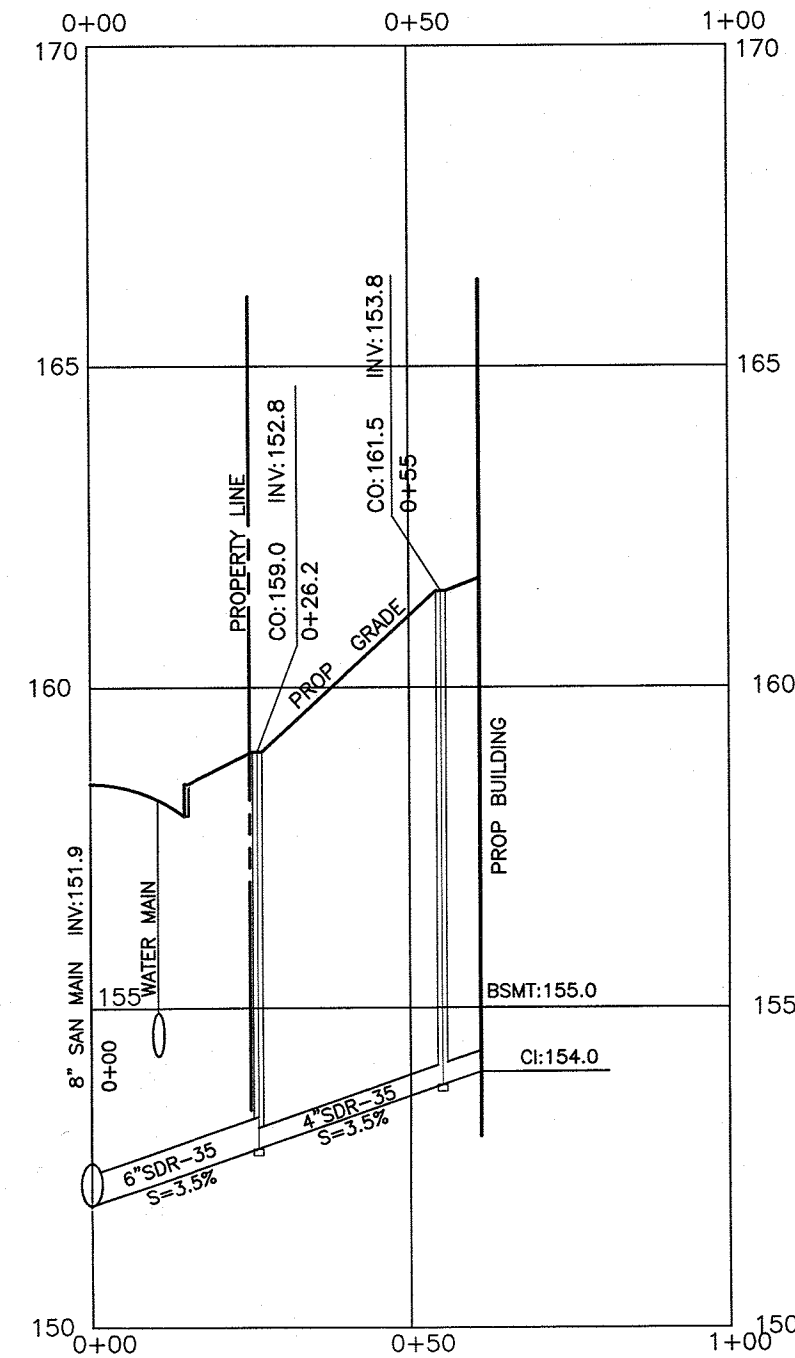
PLAN LOT 4
SCALE: 1"=30'



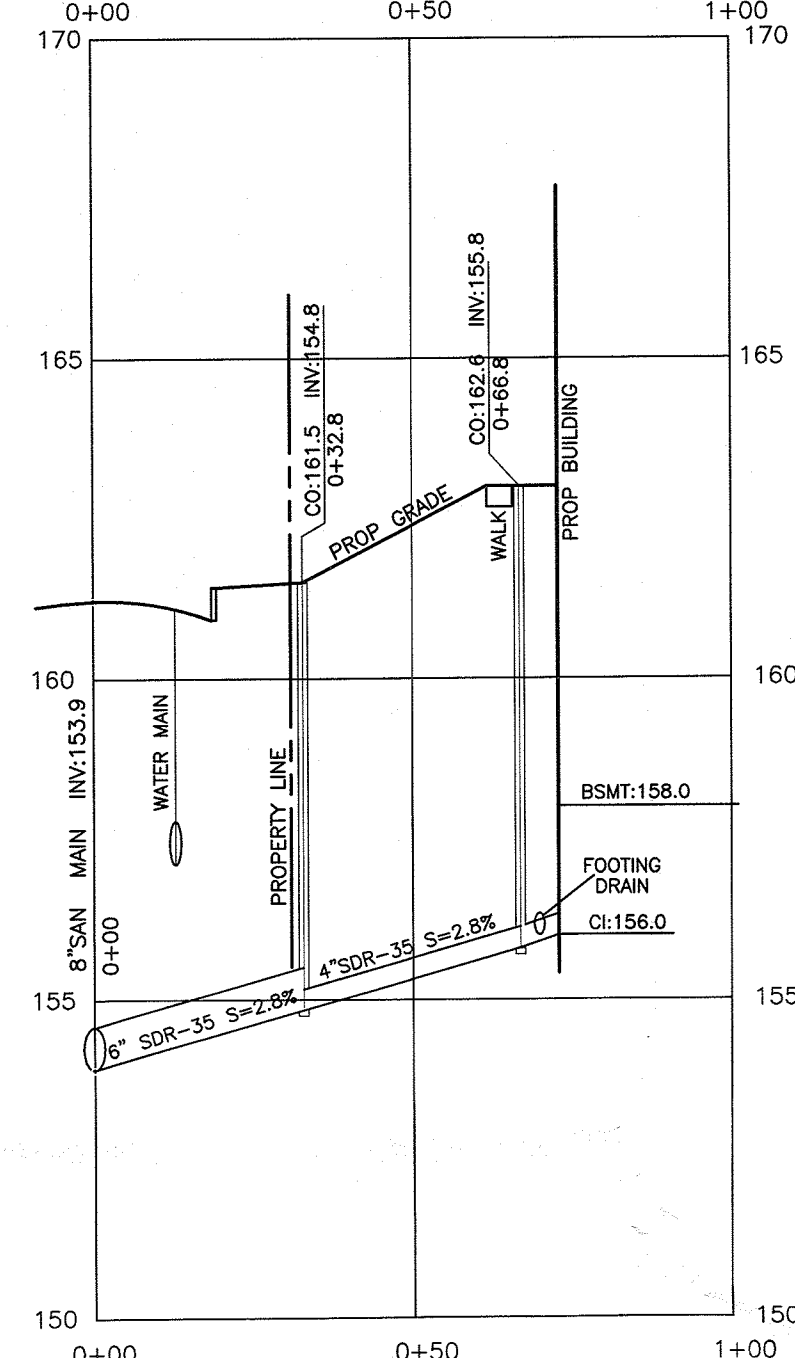
PLAN LOT 6
SCALE: 1"=30'



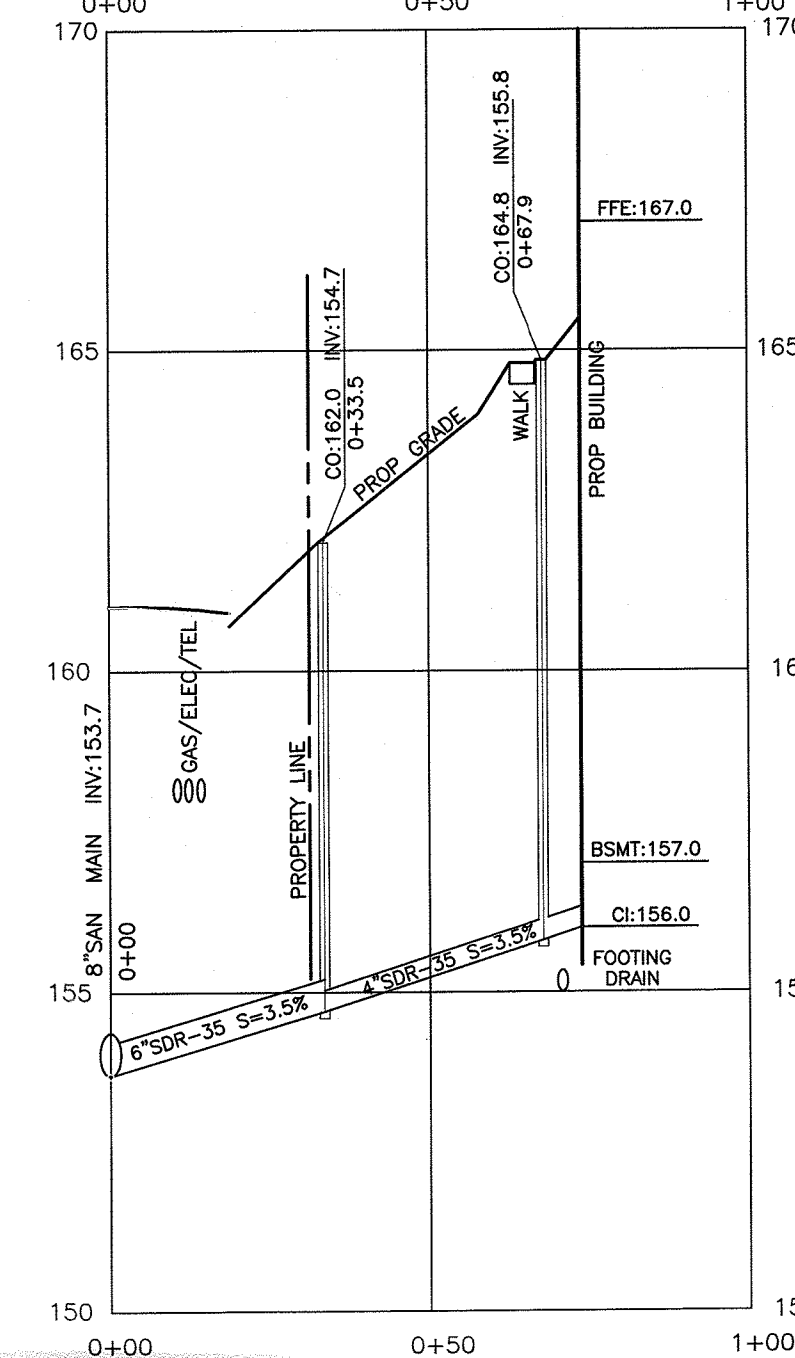
SANITARY PROFILE LOT 1
HORIZ: 1"=30'
VERT: 1"=3'



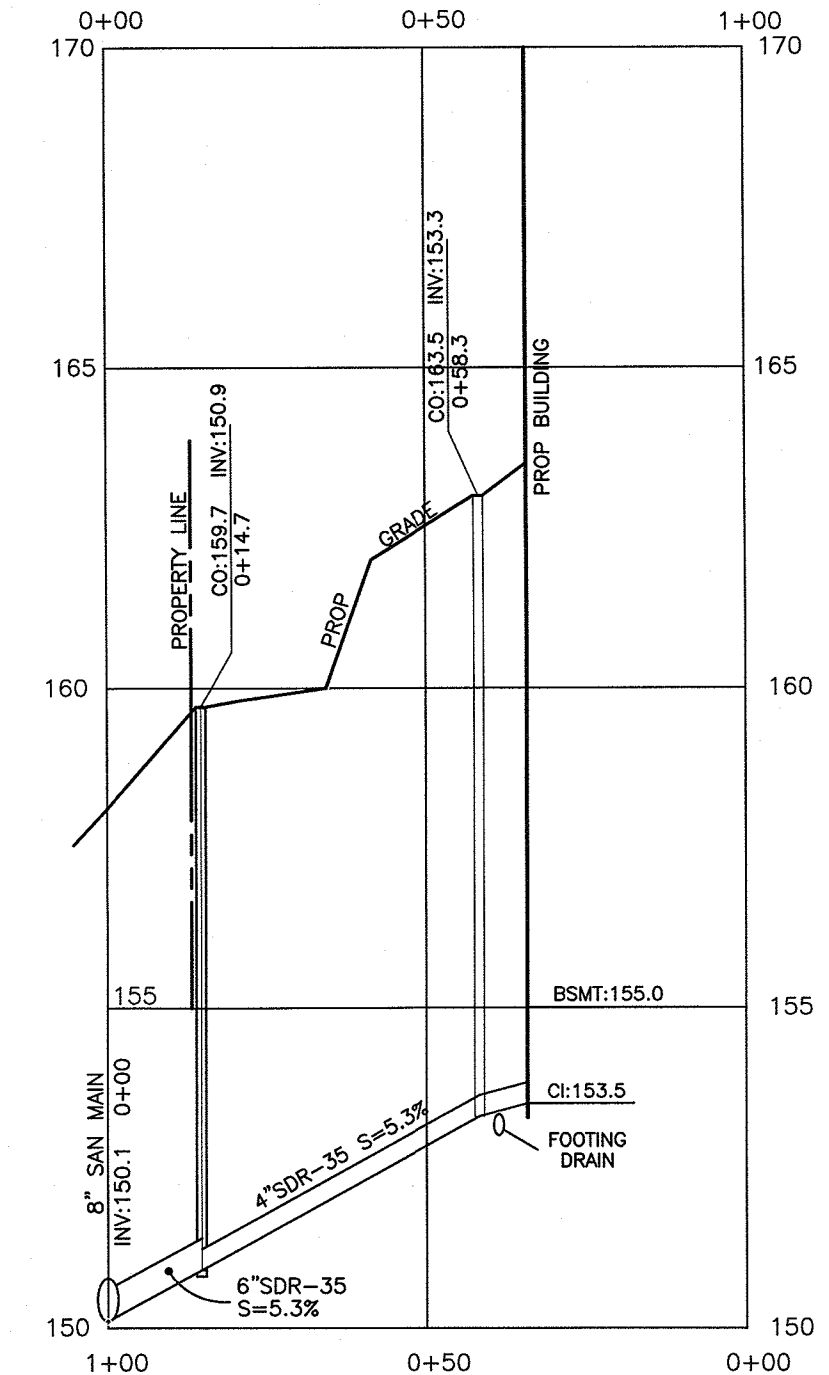
SANITARY PROFILE LOT 2
HORIZ: 1"=30'
VERT: 1"=3'



SANITARY PROFILE LOT 3
HORIZ: 1"=30'
VERT: 1"=3'



SANITARY PROFILE LOT 4
HORIZ: 1"=30'
VERT: 1"=3'



SANITARY PROFILE LOT 5
HORIZ: 1"=30'
VERT: 1"=3'

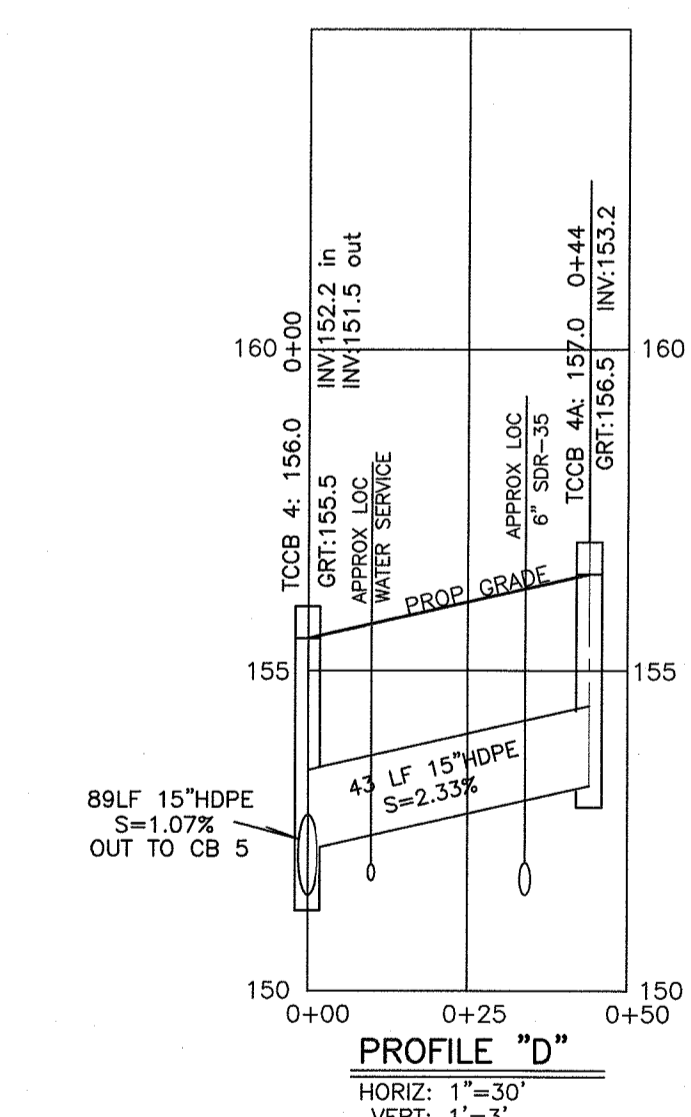
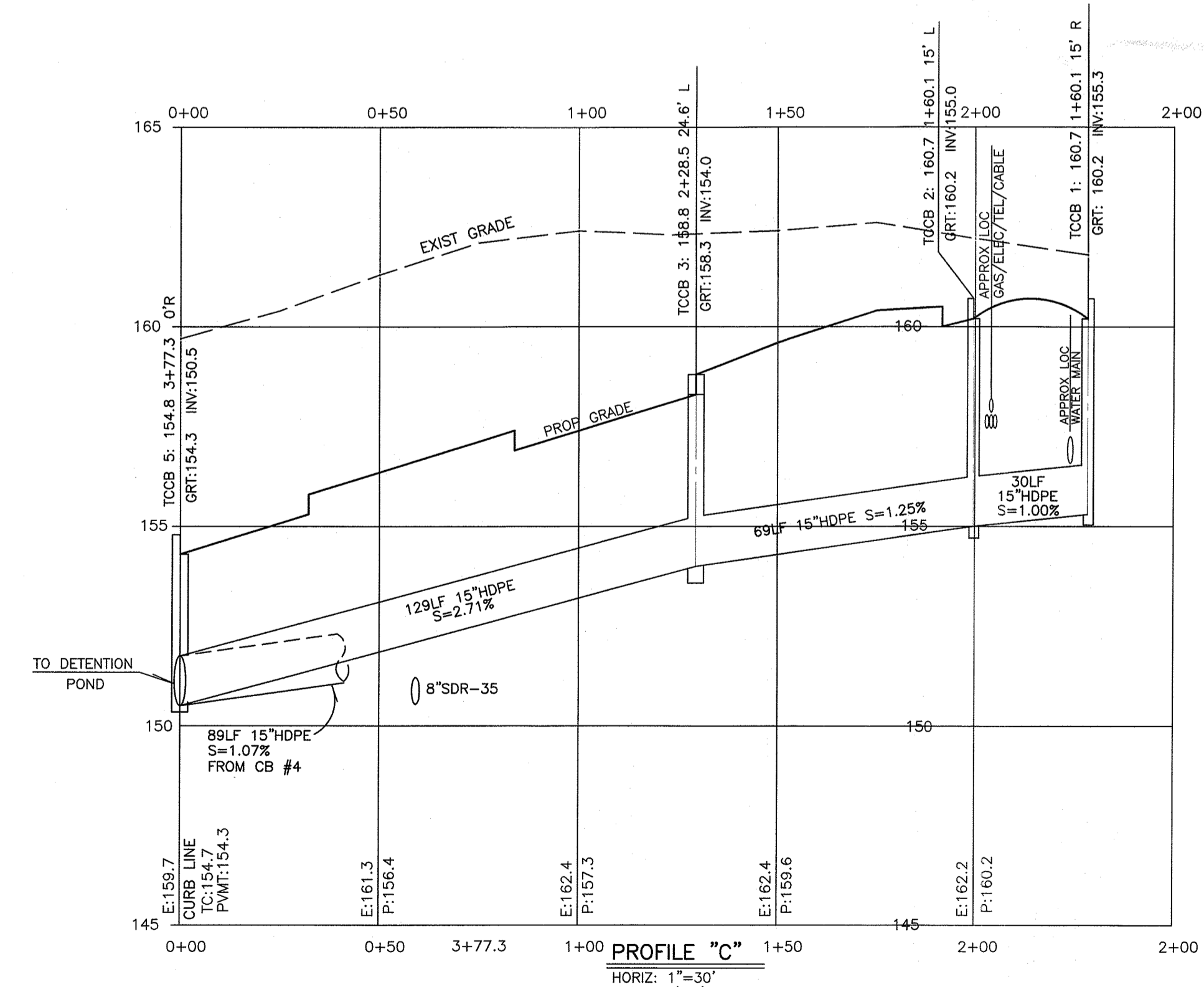
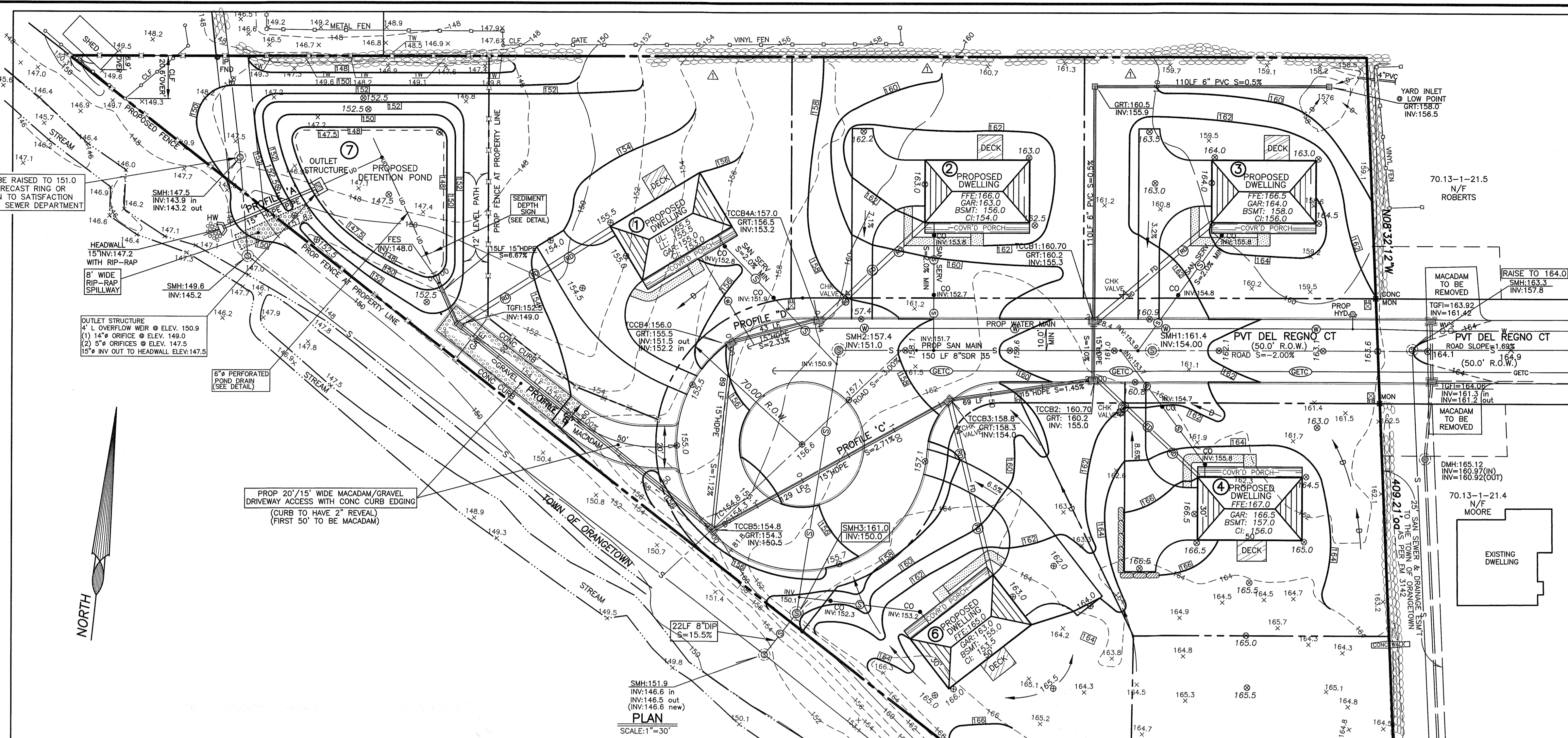
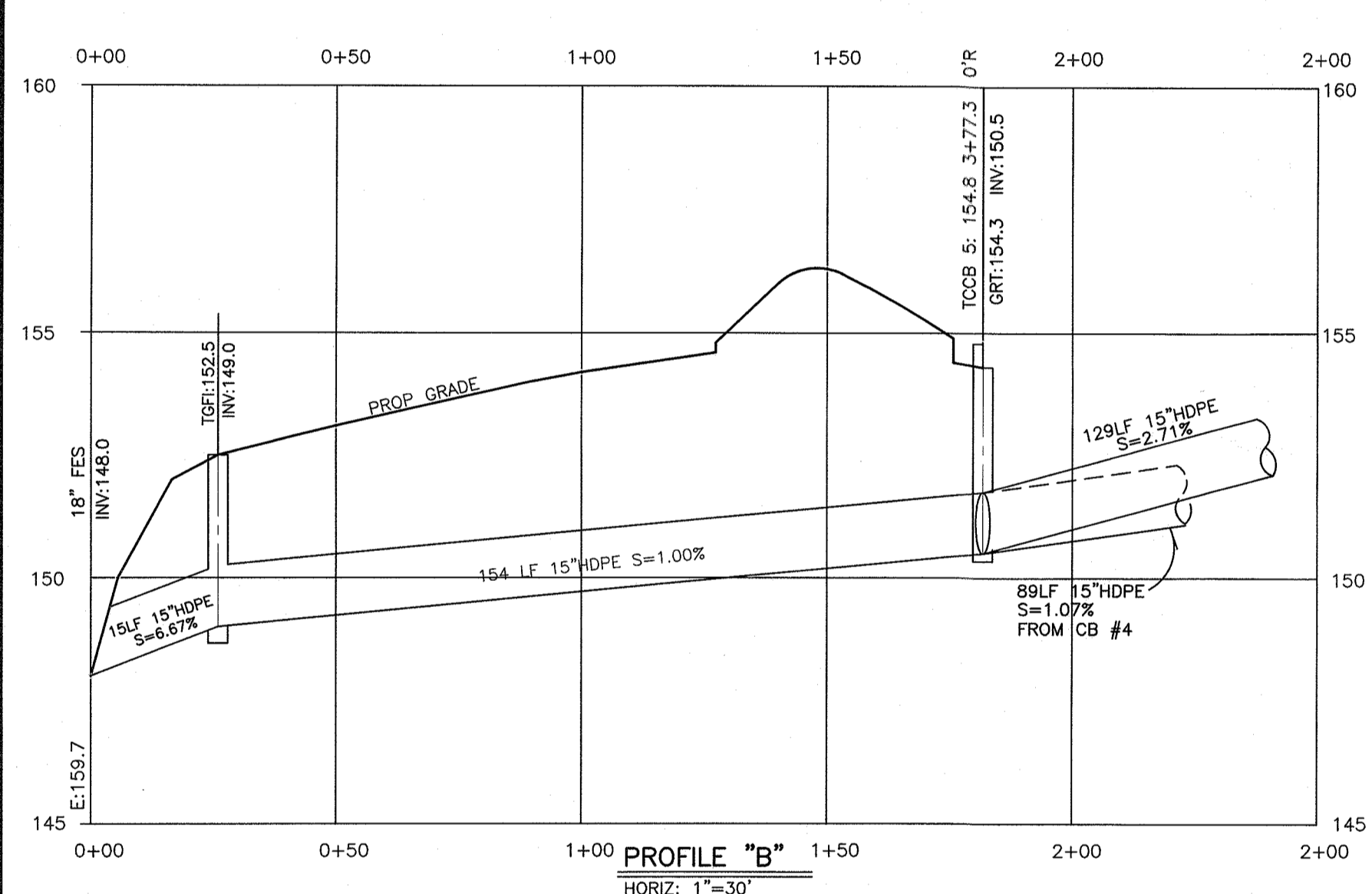
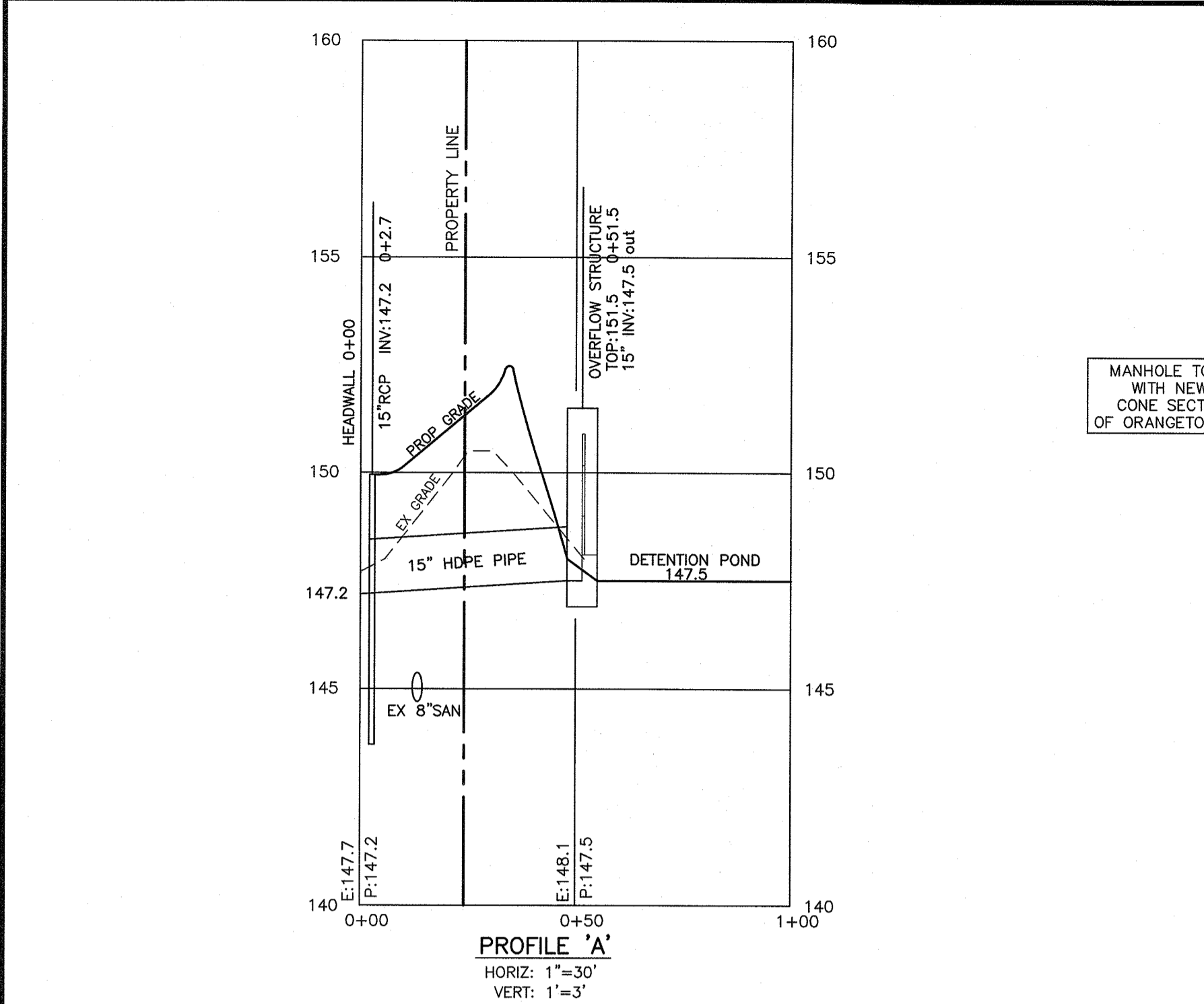
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Glenn McCreedy, PE.
 NYS LIC # 84274

STATE OF NEW YORK
 JAY A. GREENWELL
 LICENSED PROFESSIONAL ENGINEER
 No. 09567
 LICKON
 JAY A. GREENWELL, PLS
 NYS LIC # 49676

PLAN AND PROFILES - SANITARY SERVICE
SMK ERIE WEST
 TOWN OF ORANGETOWN, ROCKLAND COUNTY
 STATE OF NEW YORK
JAY A. GREENWELL, PLS, LLC
 SURVEYING - LAND PLANNING
 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
 PHONE 845-357-0830 FAX 845-357-0756
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TAX LOT #	70.13-1-20
FILE	21232 ERIE WEST PRO SA
SCALE	1"= 30'
DATE	9/15/21
JOB NO.	21232



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 TEL: 201-644-7330

STATE OF NEW YORK
 JAY A. GREENWELL
 LICENSED PROFESSIONAL ENGINEER
 NO. 09676

STATE OF NEW YORK
 JAY A. GREENWELL, PLS
 NYS LIC.# 49676

NO.	DATE	REVISIONS
1	10-18-21	REVISIONS

PLAN AND PROFILES - DRAINAGE
SMK ERIE WEST
 TOWN OF ORANGETOWN, ROCKLAND COUNTY
 STATE OF NEW YORK

JAY A. GREENWELL, PLS, LLC
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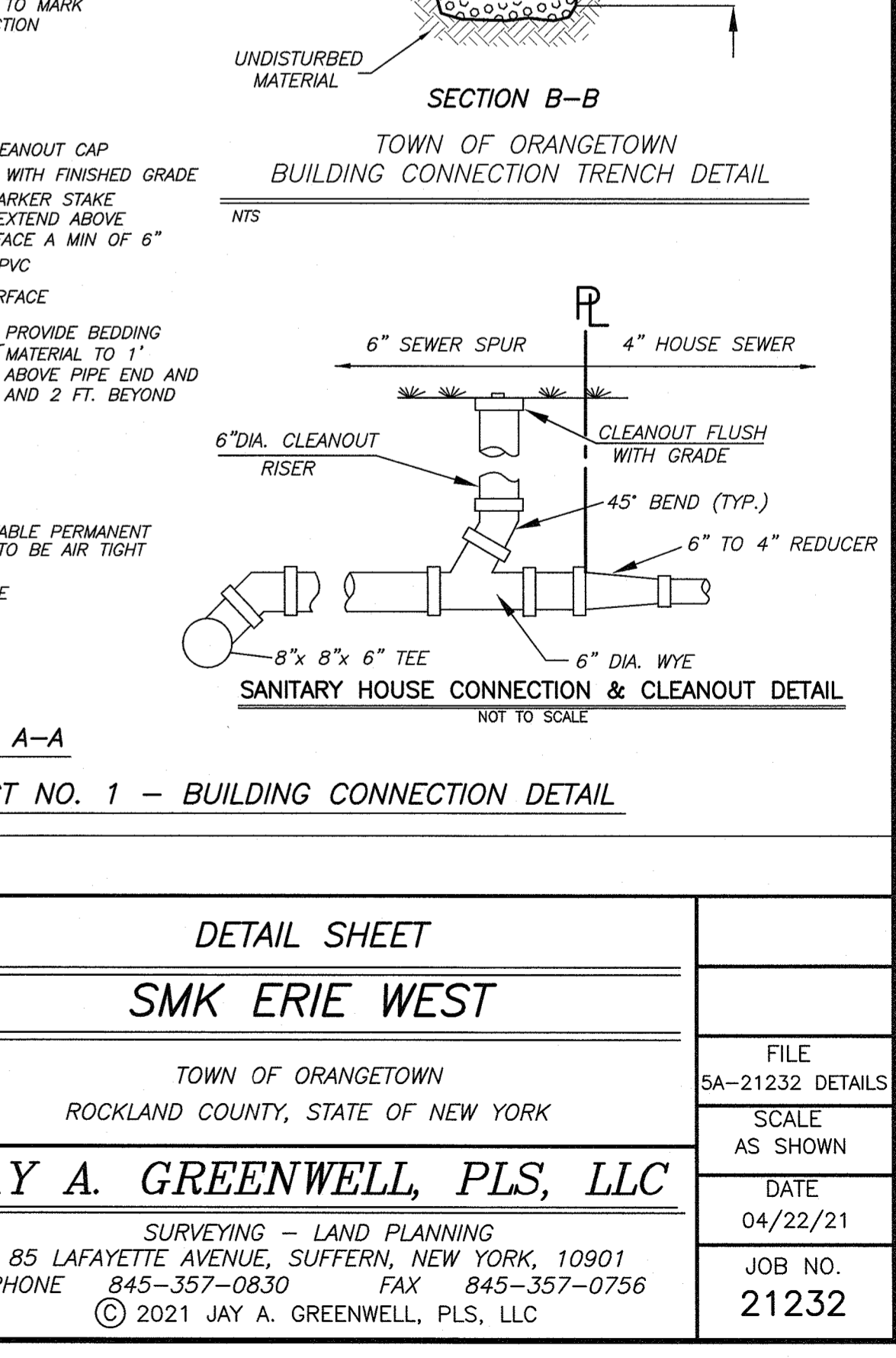
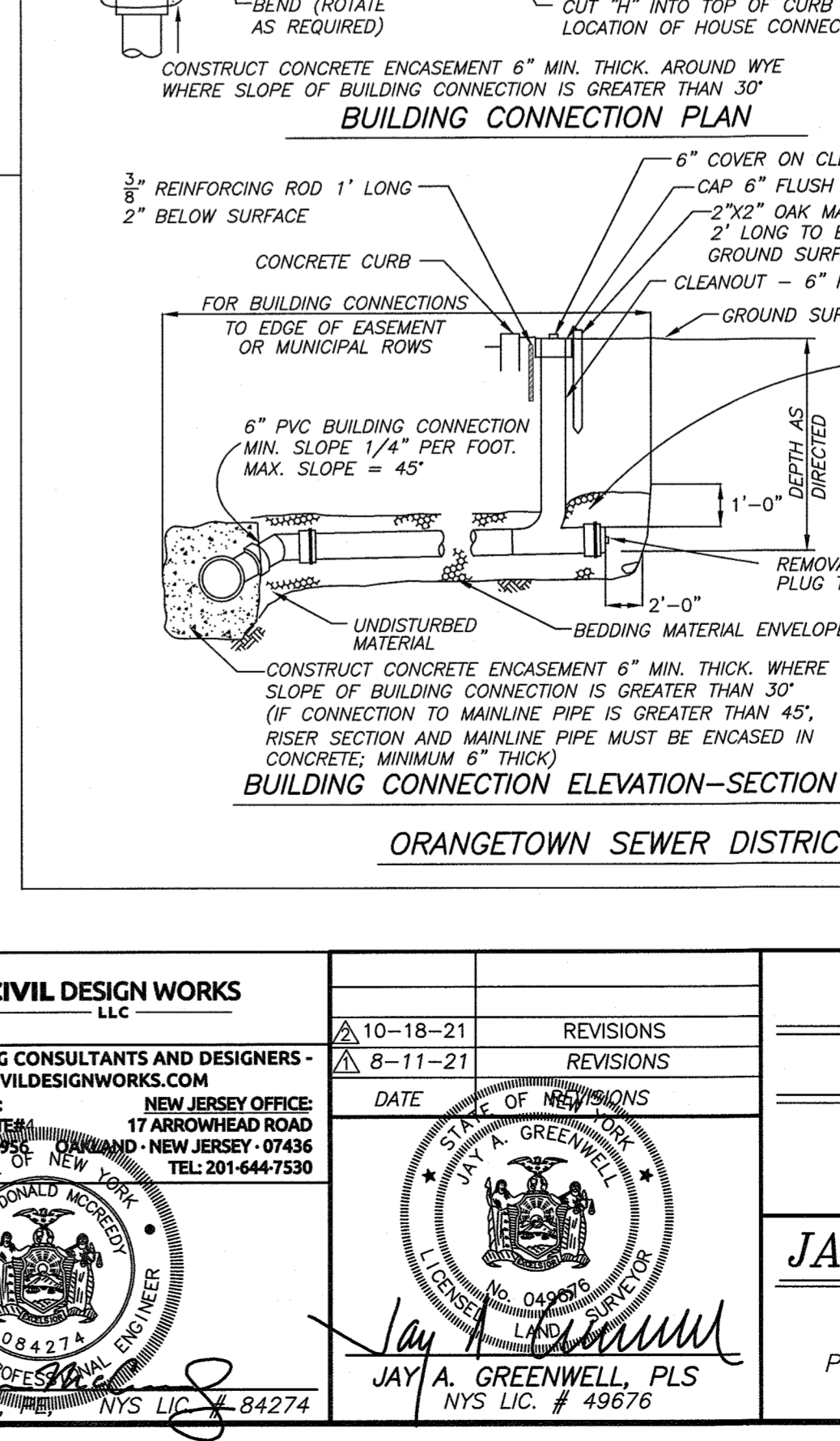
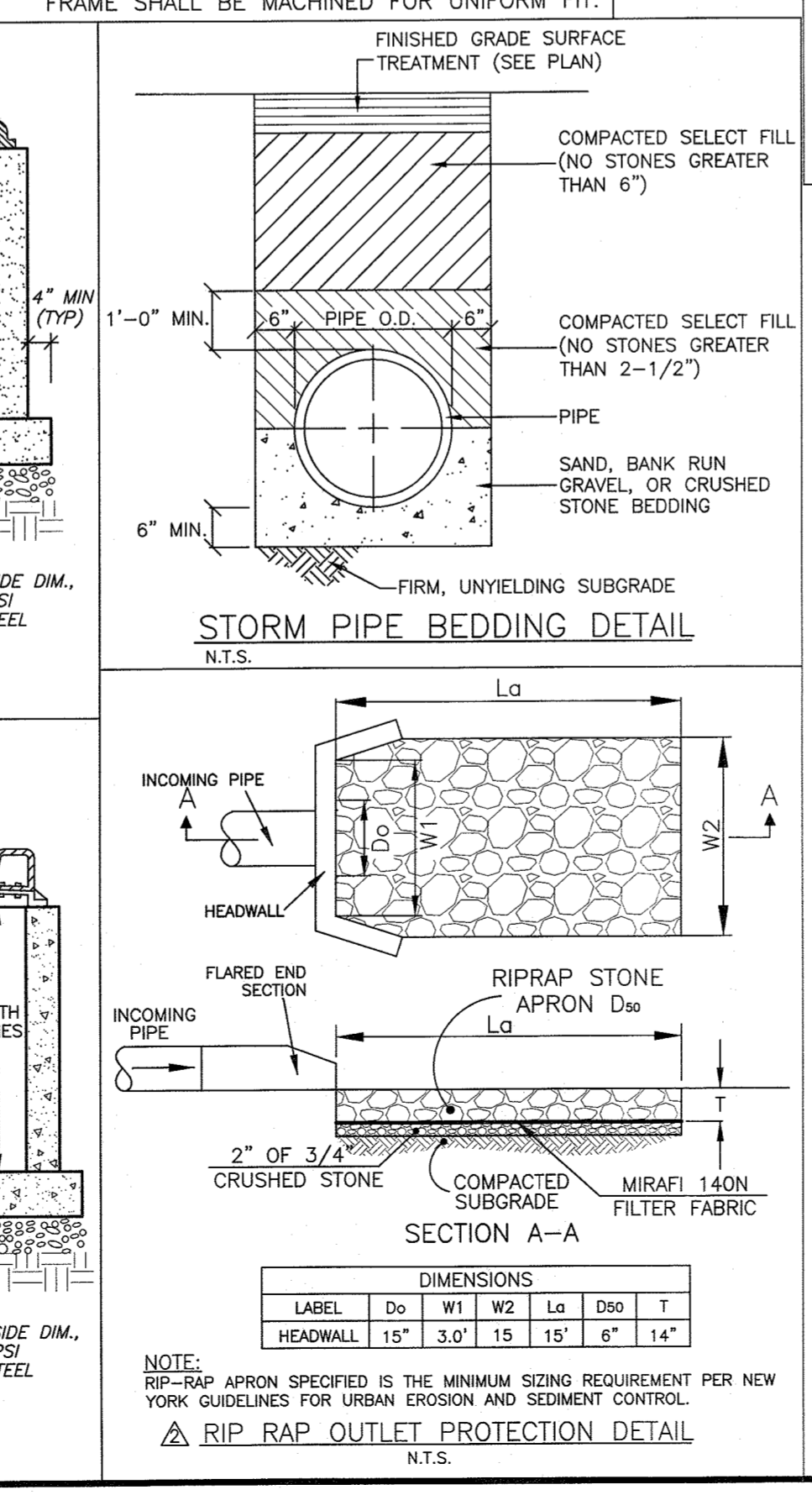
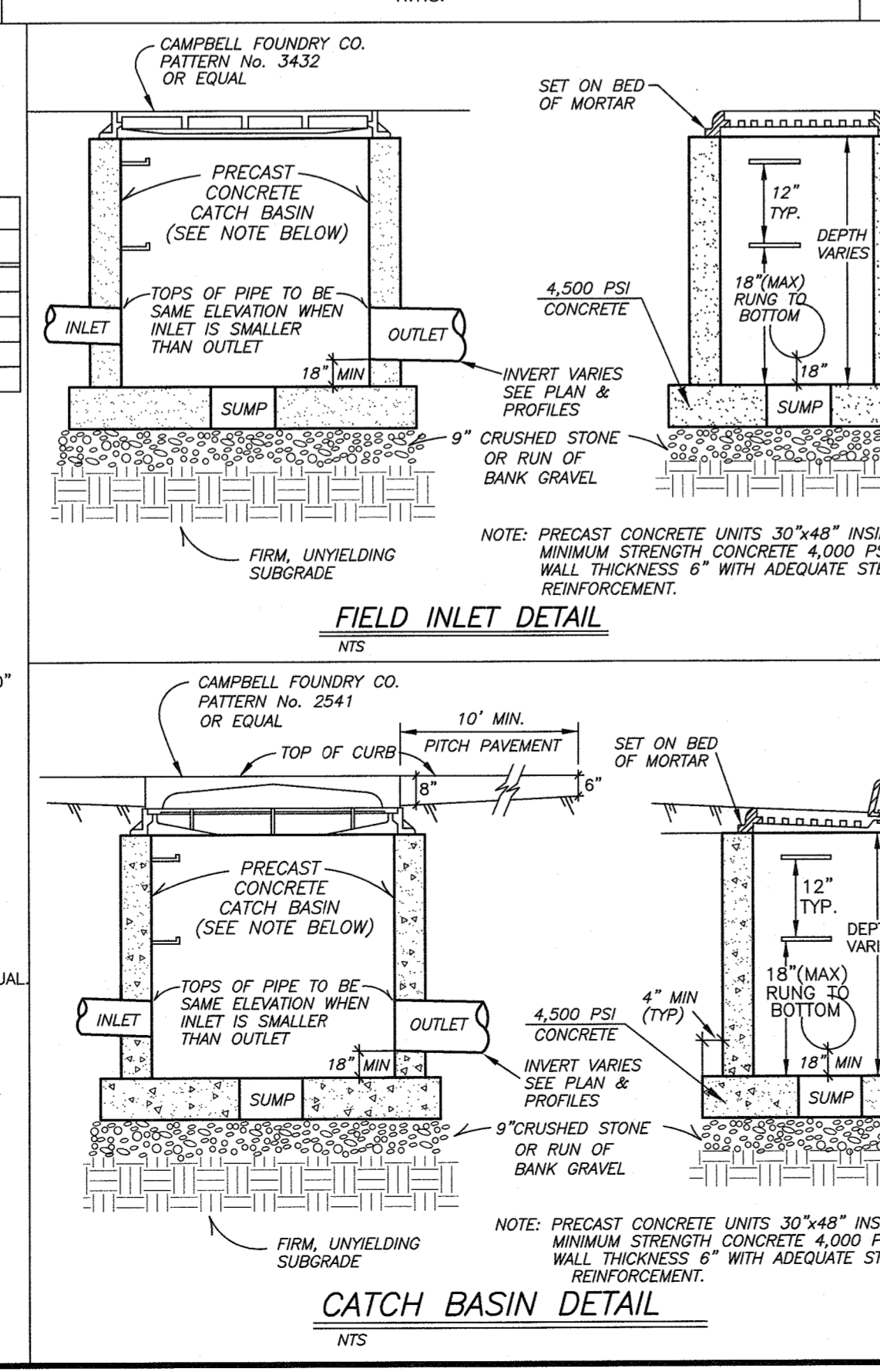
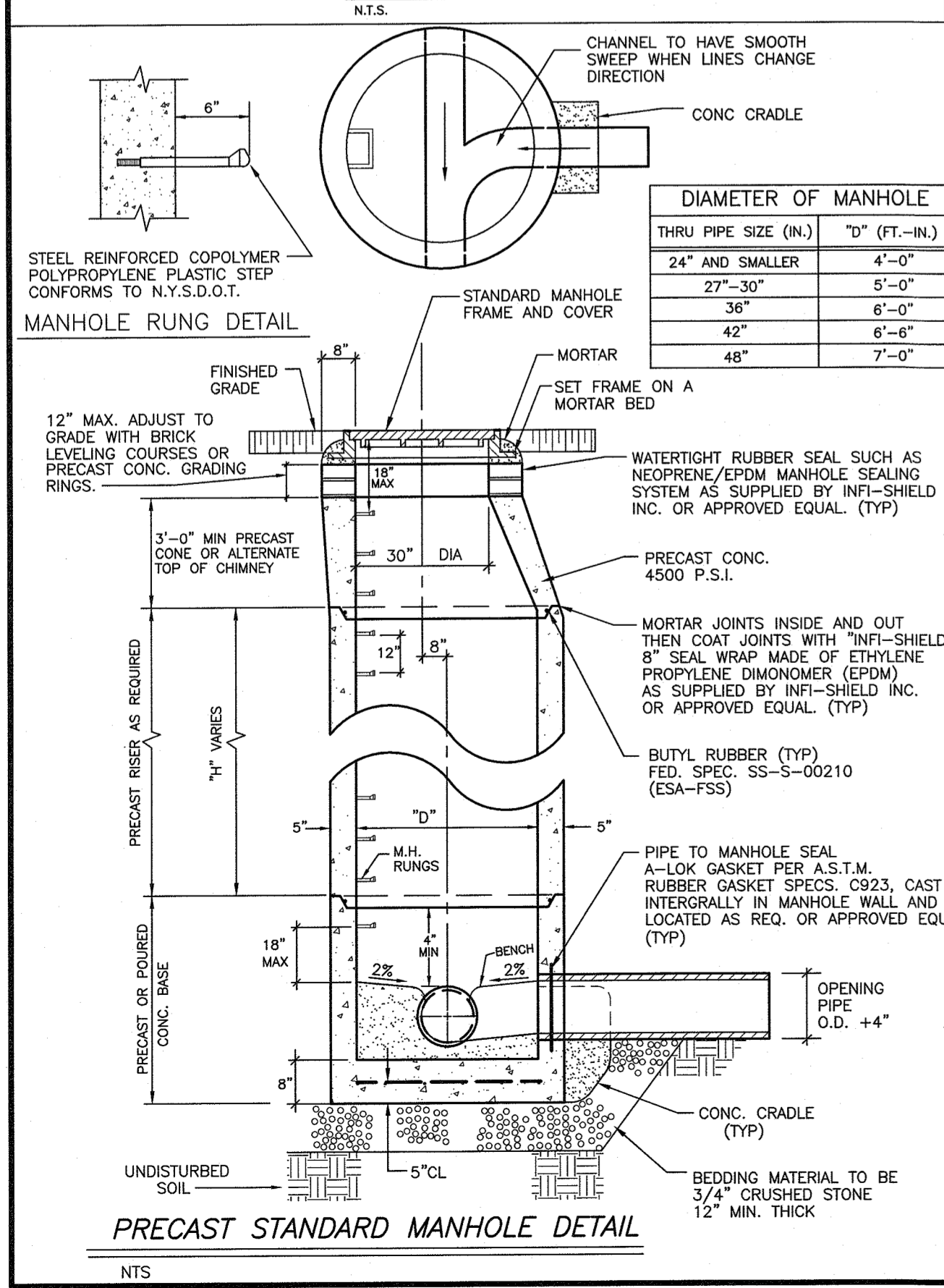
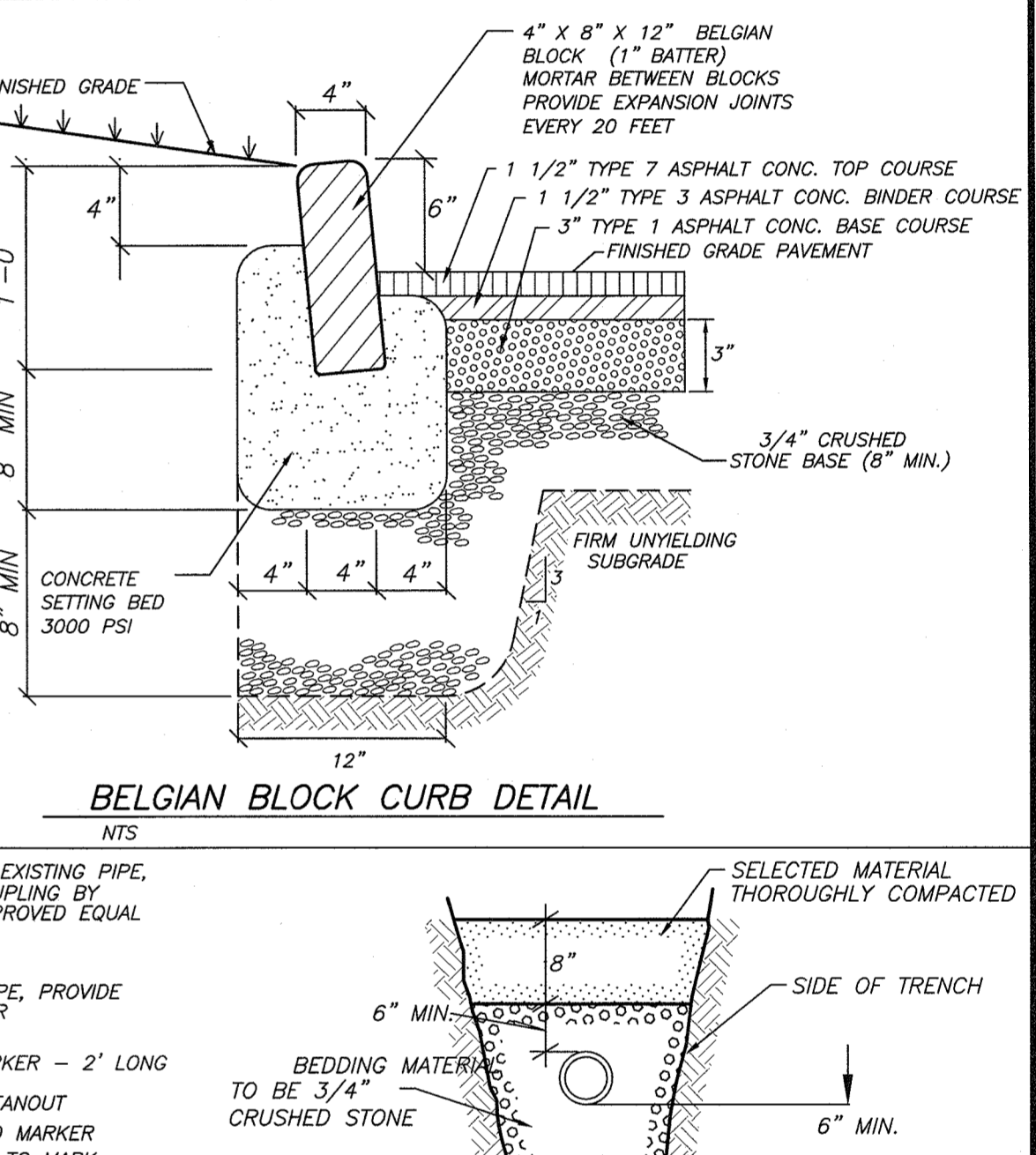
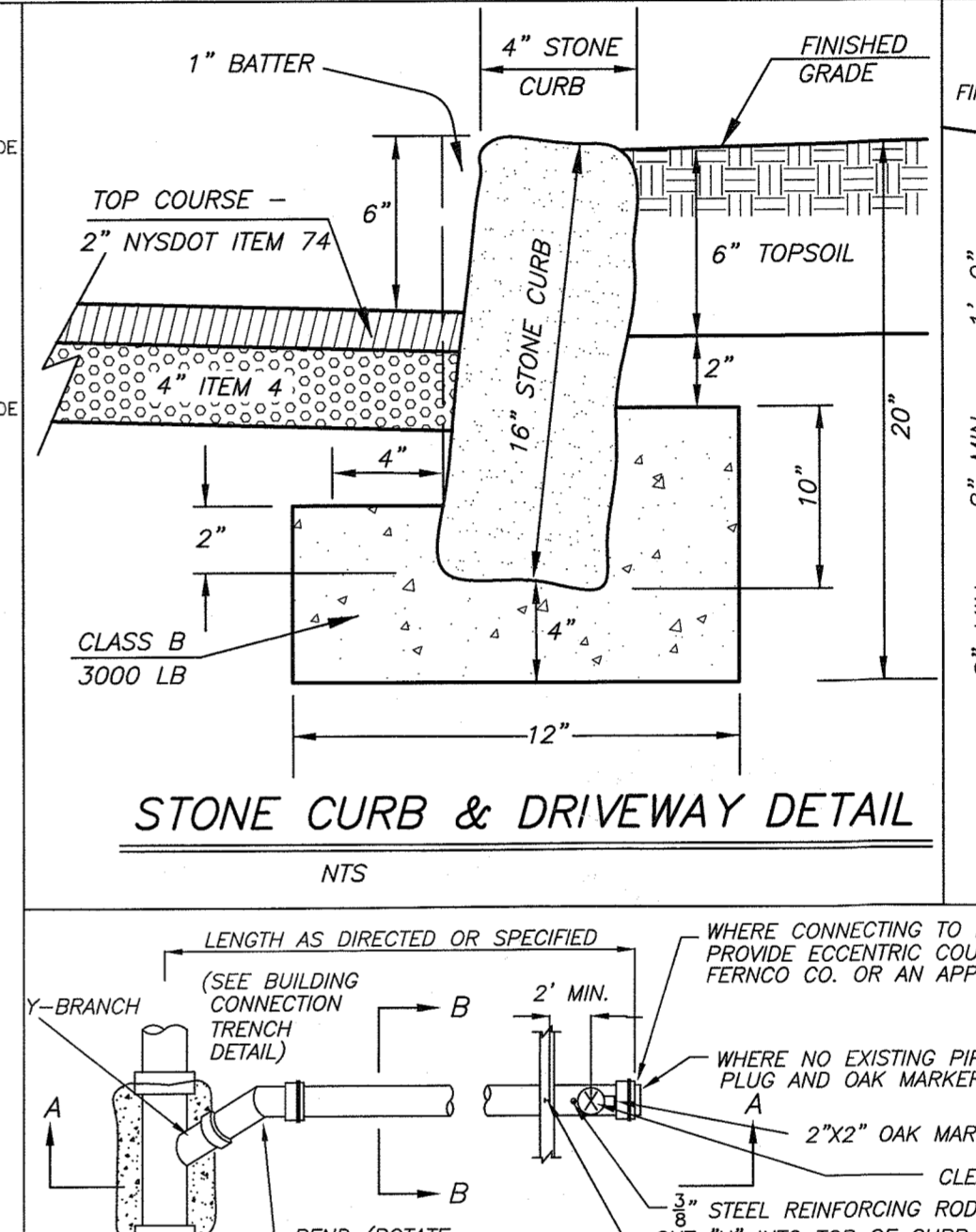
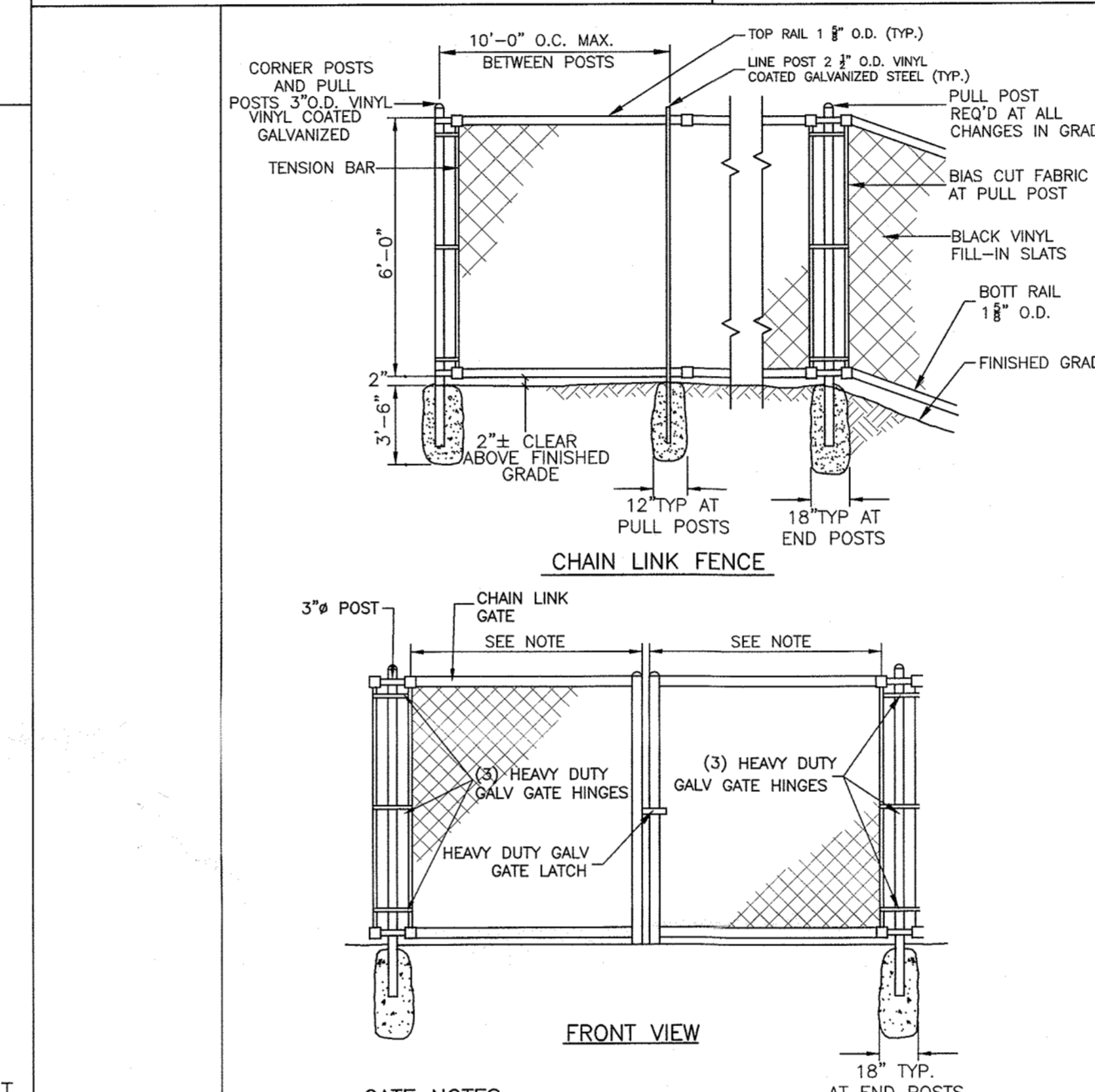
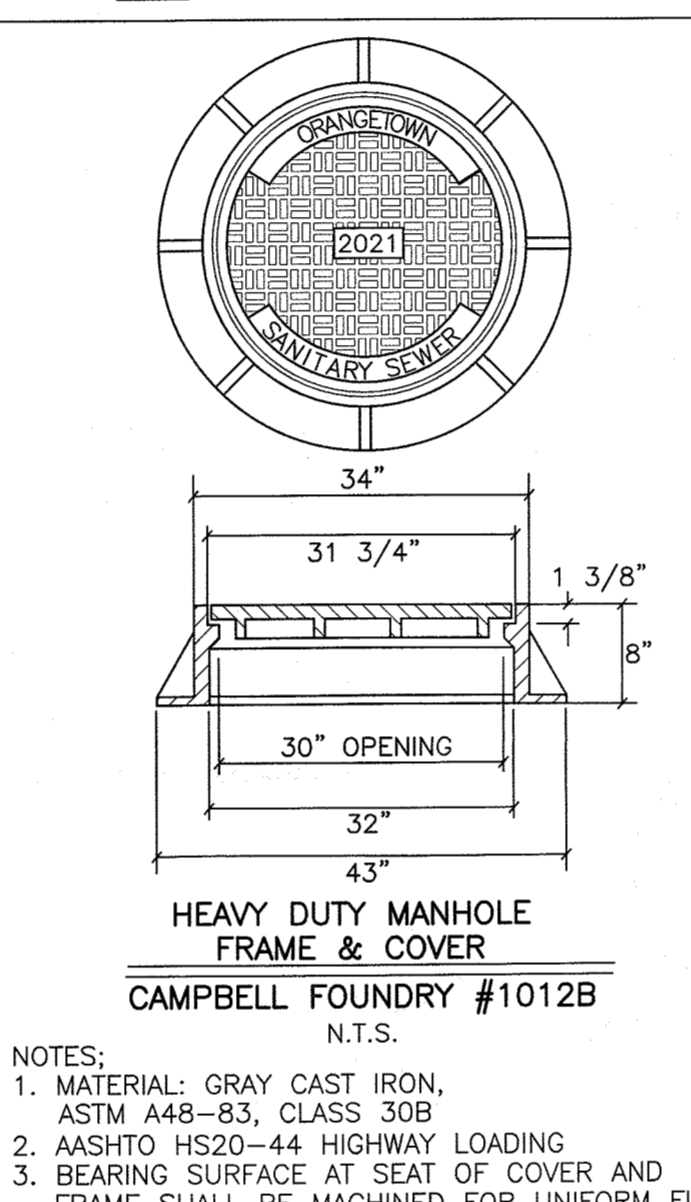
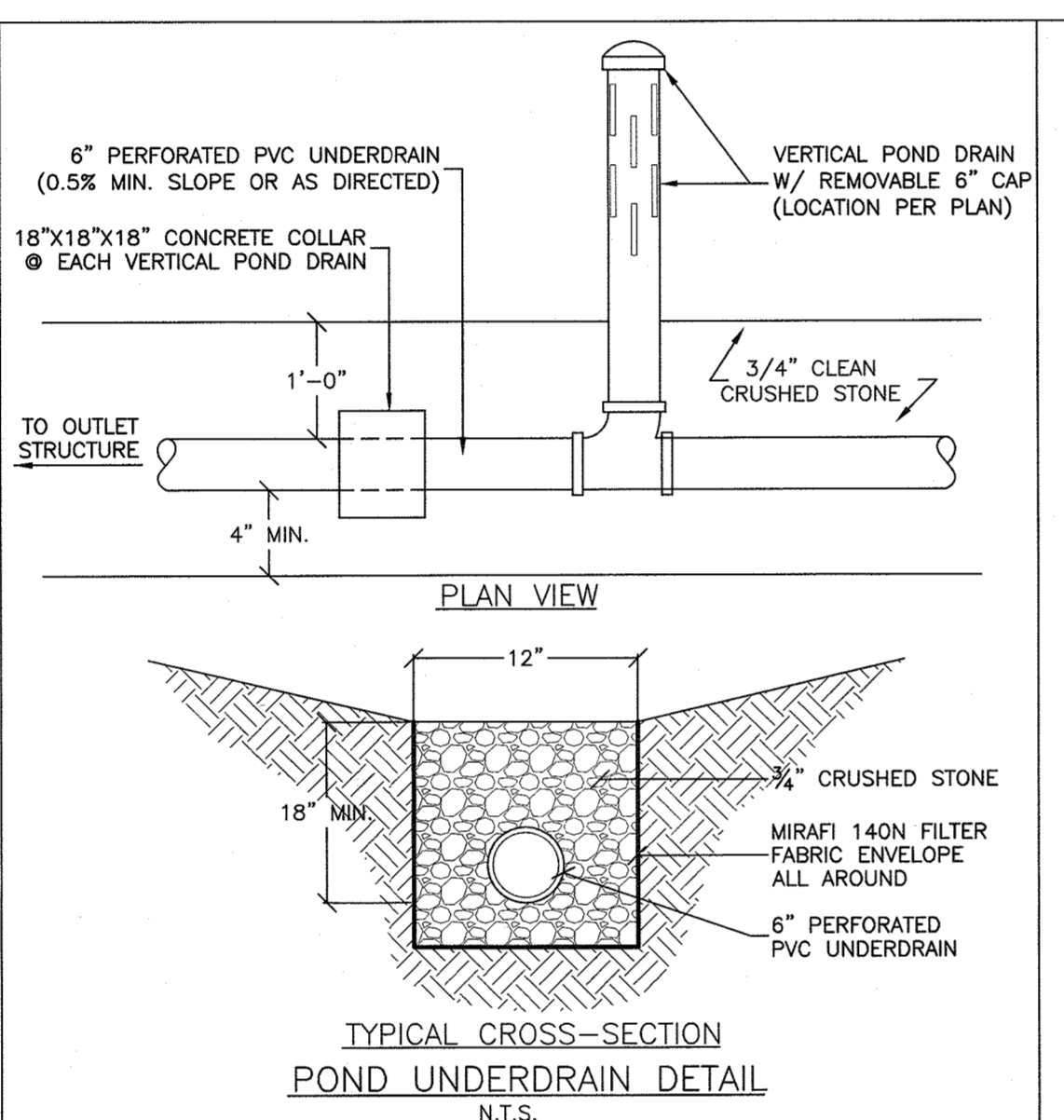
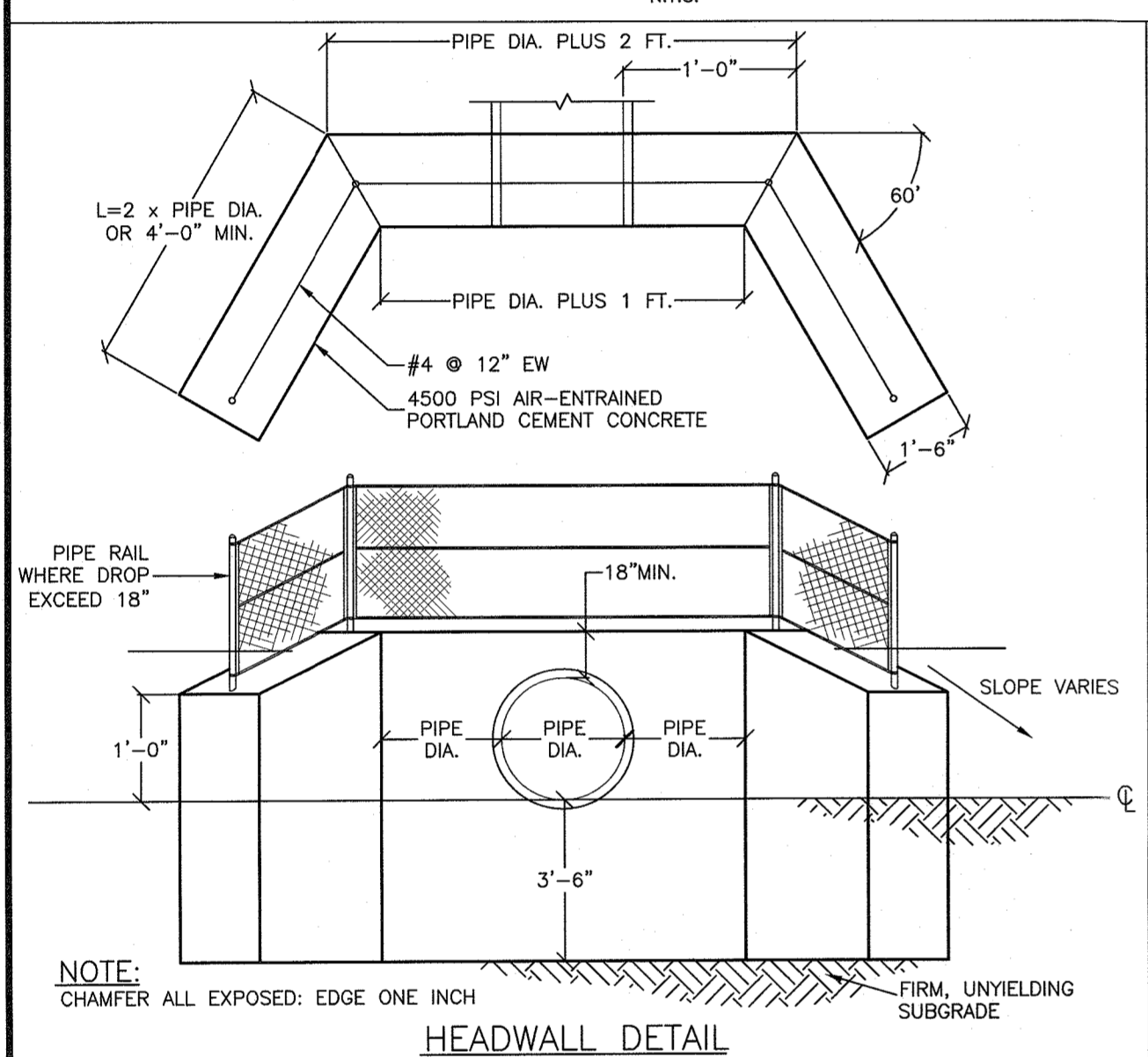
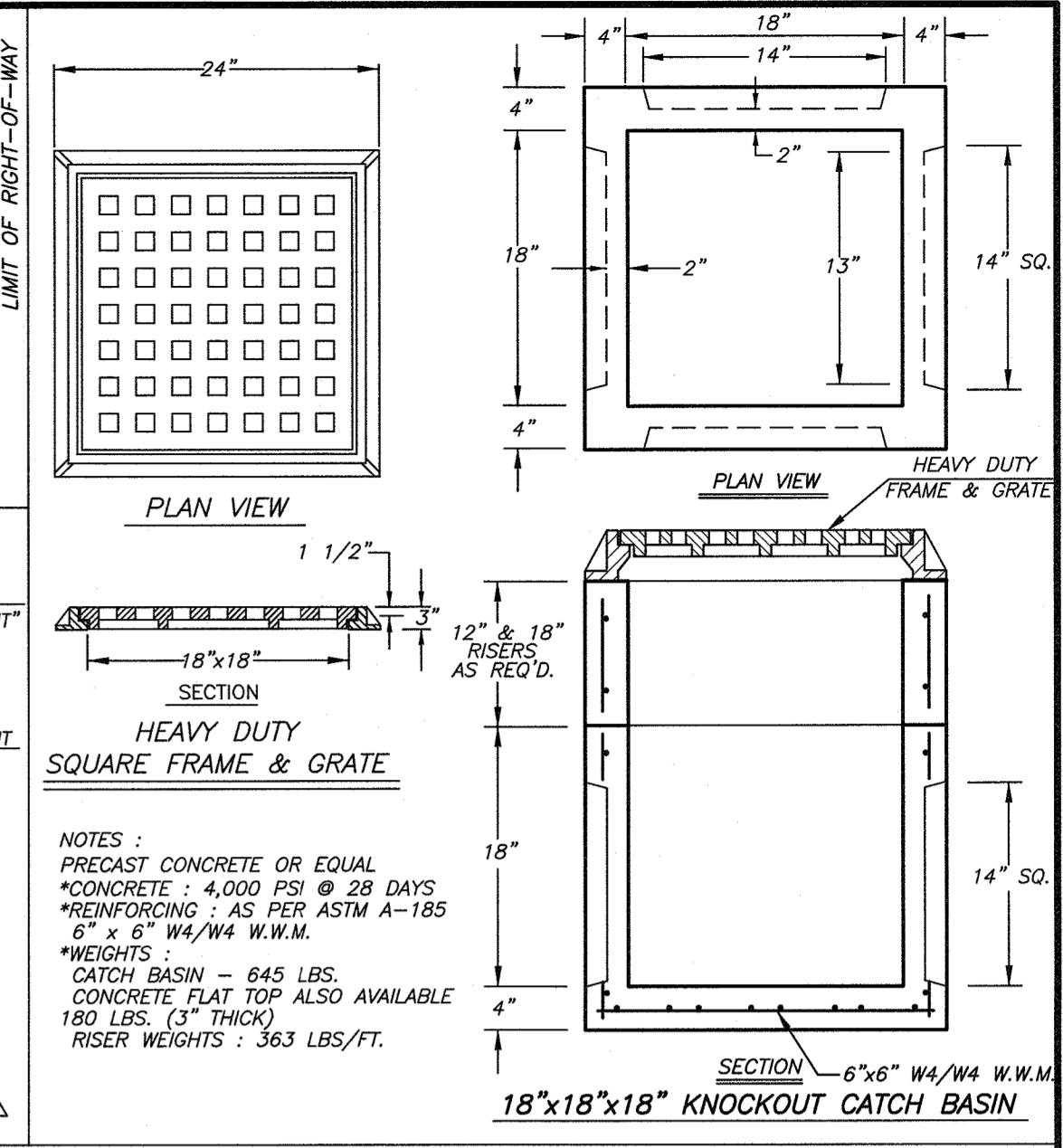
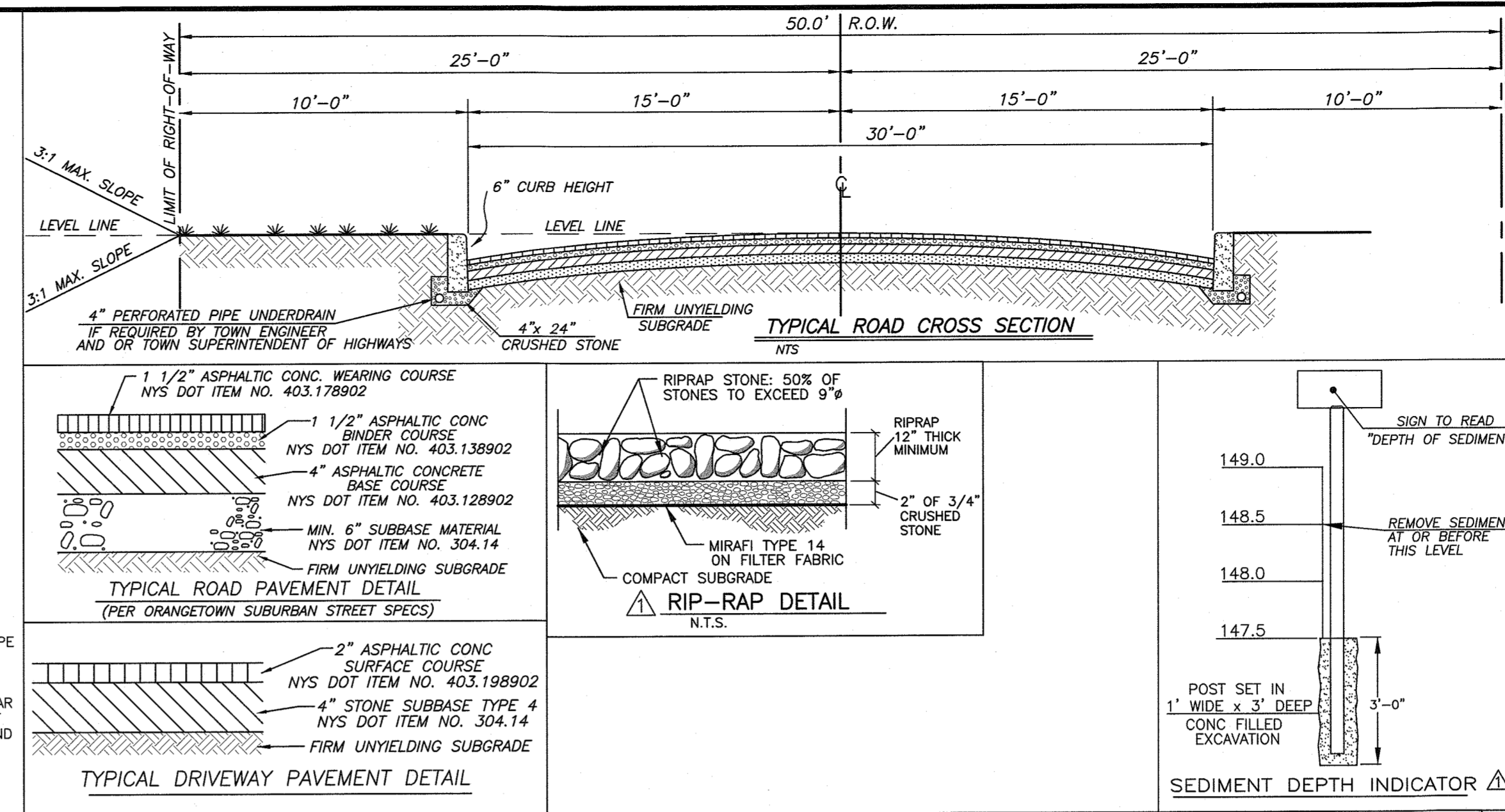
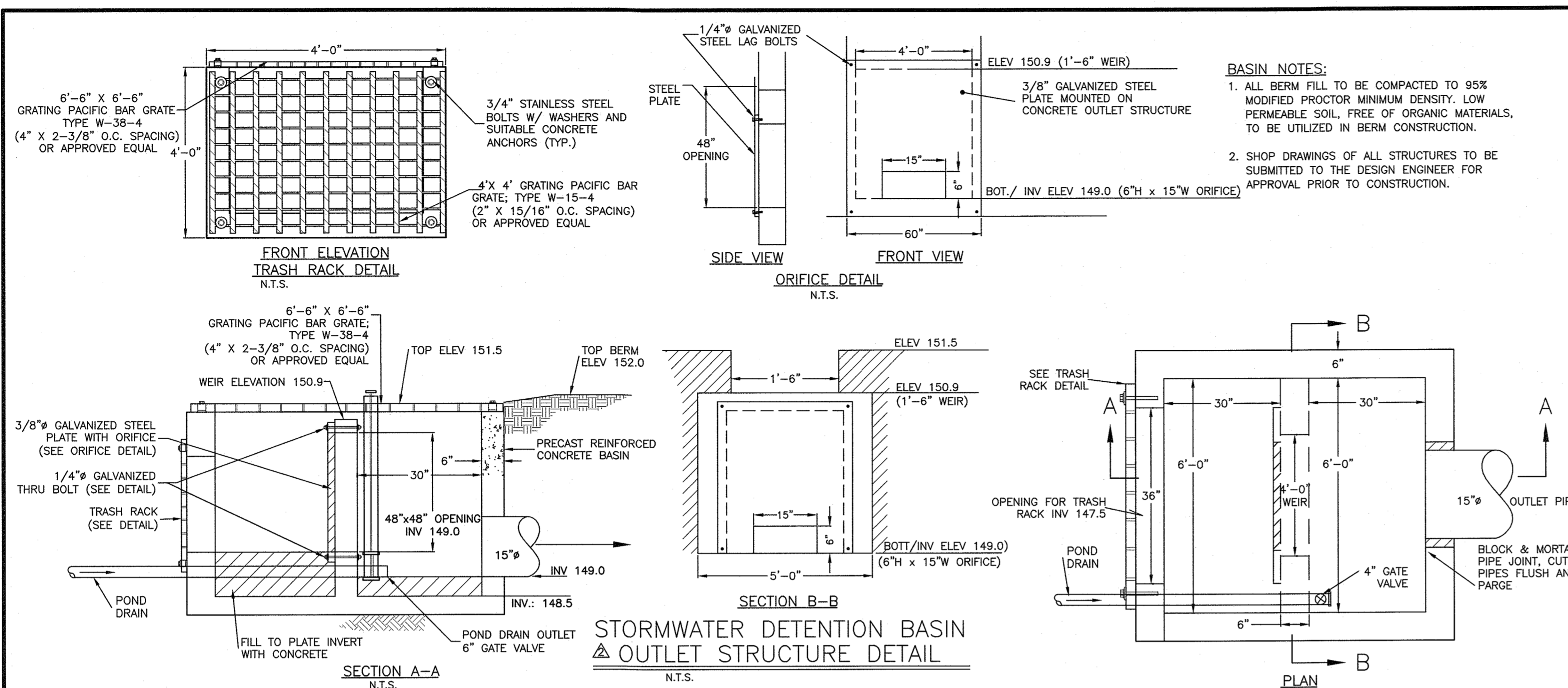
TAX LOT #
 70.13-1-20

FILE
 21232 ERIE WEST PRO DRAIN

SCALE
 1"= 30'

DATE
 9-22-21

JOB NO.
 21232



CIVIL DESIGN WORKS LLC

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DETAIL SHEET

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DATE	REVISIONS
10-18-21	REVISIONS
8-11-21	REVISIONS

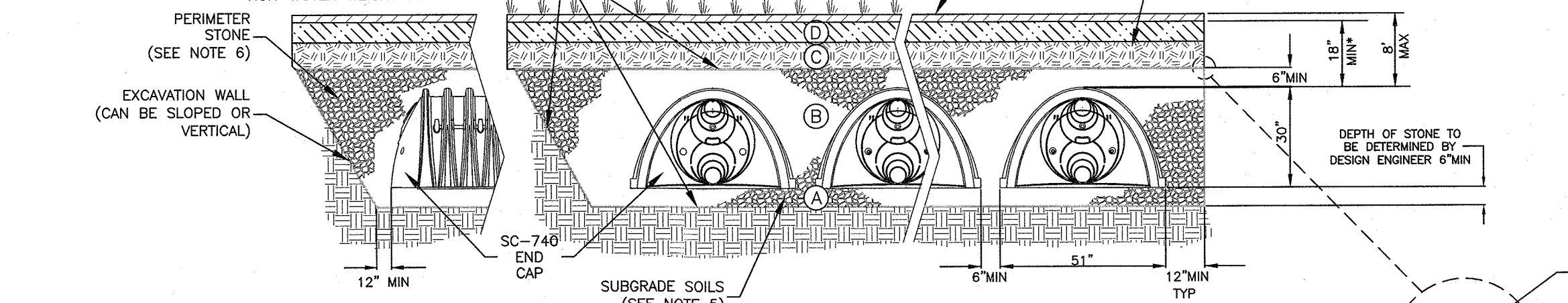
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SA-21232 DETAILS	AS SHOWN	04/22/21	21232

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

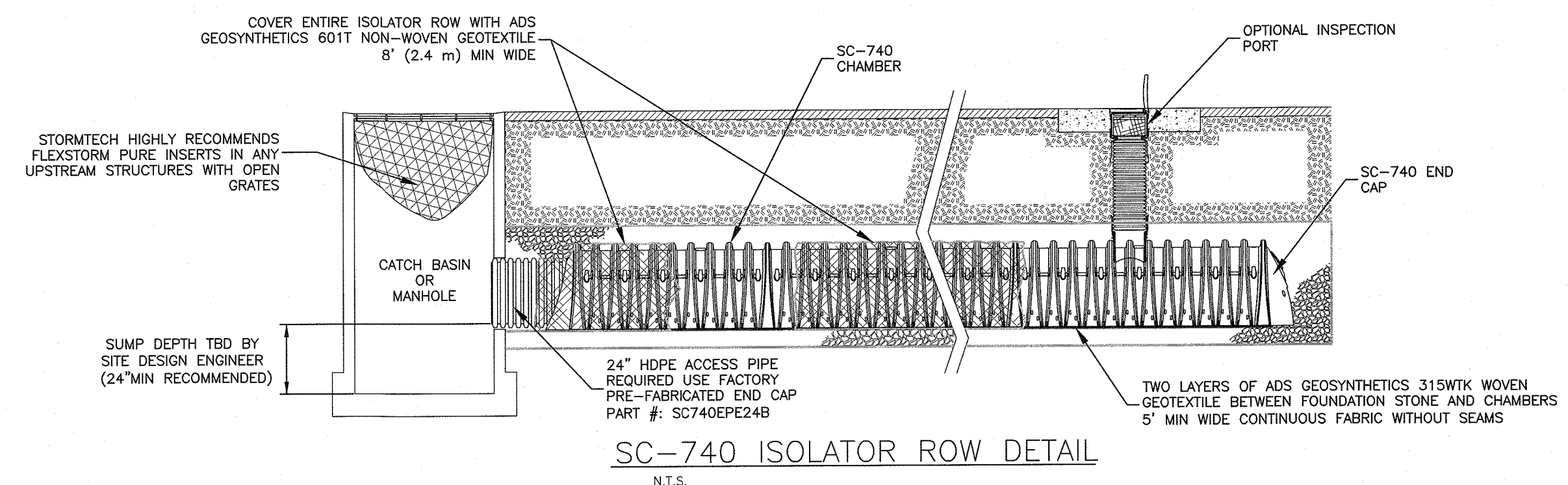
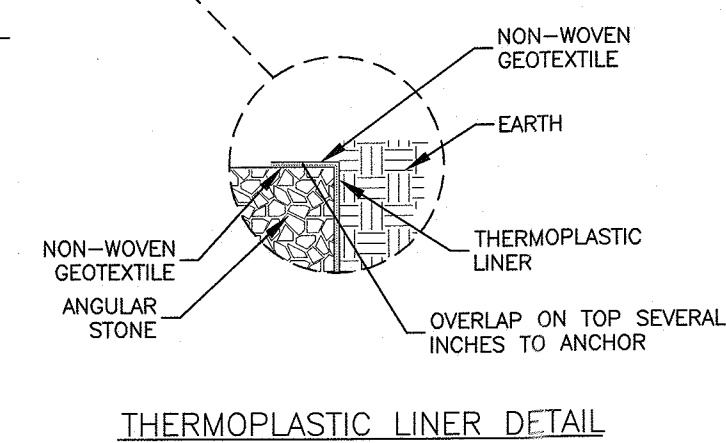
m	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹ ?

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

1 LAYER OF ADS GEOSYNTHETICS NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS. BOTH SIDES OF THERMOPLASTIC LINER. SEE STORMTECH'S TECH SHEET #2 FOR NON-WOVEN WEIGHT RECOMMENDATIONS.

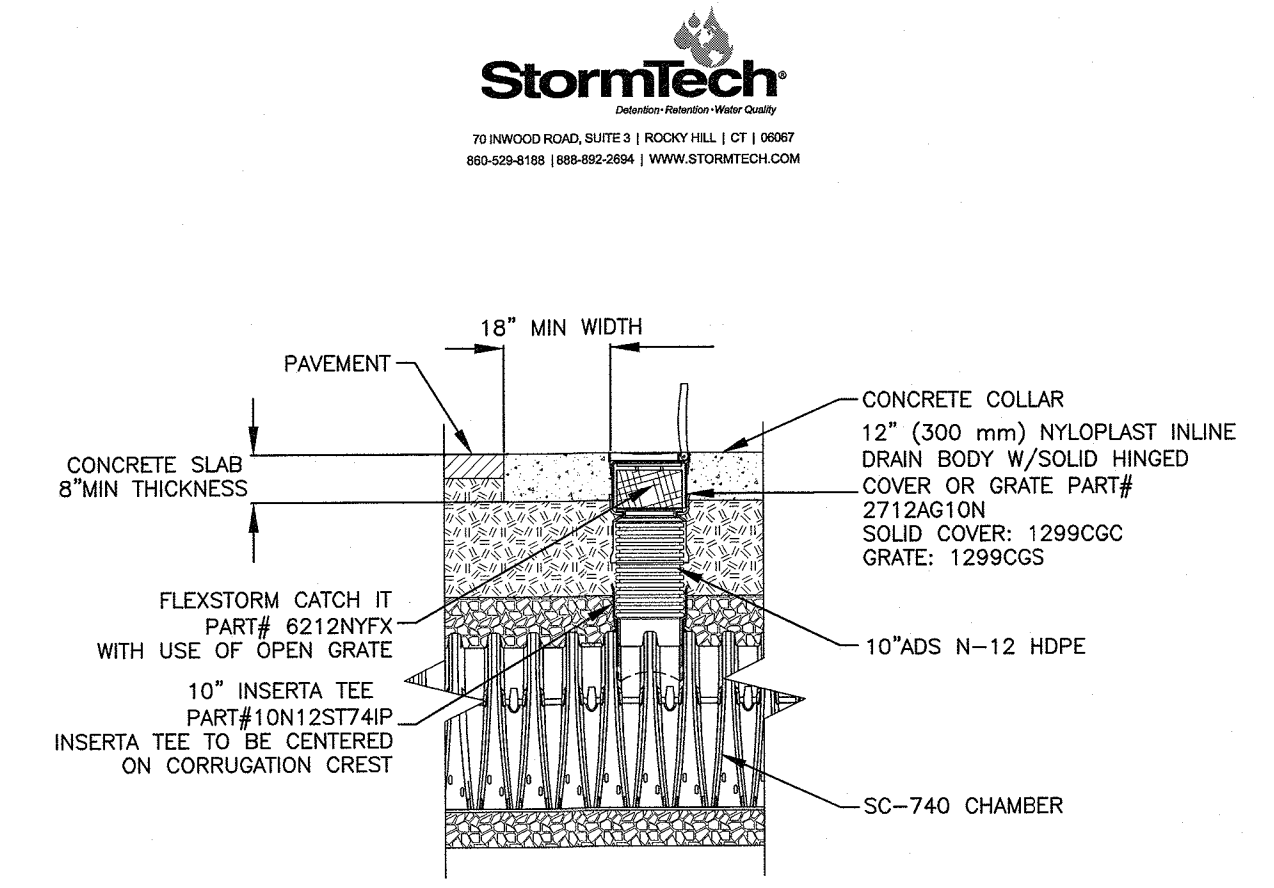


- NOTES:**
- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
 - THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

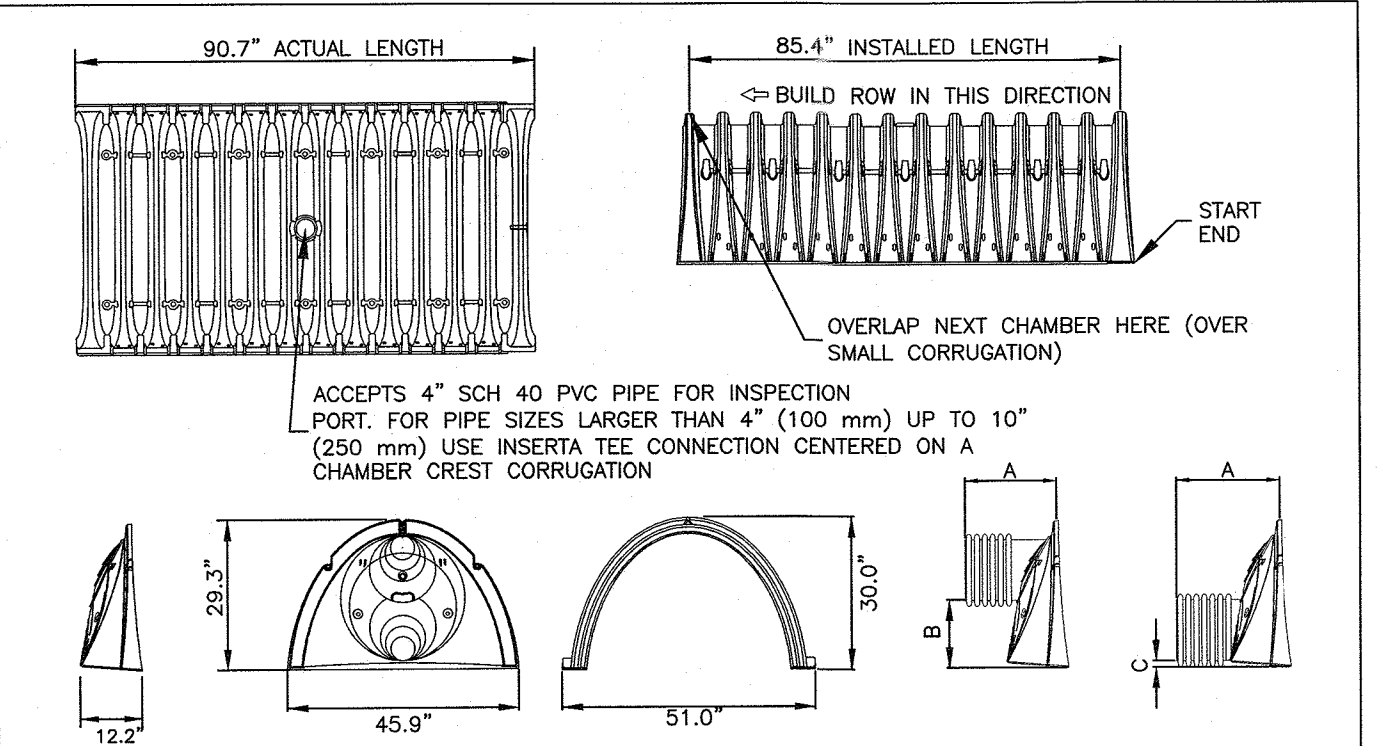


- INSPECTION & MAINTENANCE**
- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- NOTES**
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 - CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 INSPECTION PORT DETAIL
N.T.S.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET (1.30 m ³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET (2.12 m ³)
WEIGHT	75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	6" (150 mm)	10.9" (277 mm)	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7" (373 mm)	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	18" (450 mm)	19.7" (500 mm)	---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SC-740 TECHNICAL SPECIFICATION
N.T.S.

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 CLAYTON, NJ 07033
 TEL: 201-644-7339

REVISIONS

DATE	REVISIONS
8-11-21	

JAY A. GREENWELL, PLS
 NYS LIC. # 49676

CULTEC DETAIL SHEET
SMK ERIE WEST

TOWN OF ORANGETOWN
 ROCKLAND COUNTY, STATE OF NEW YORK

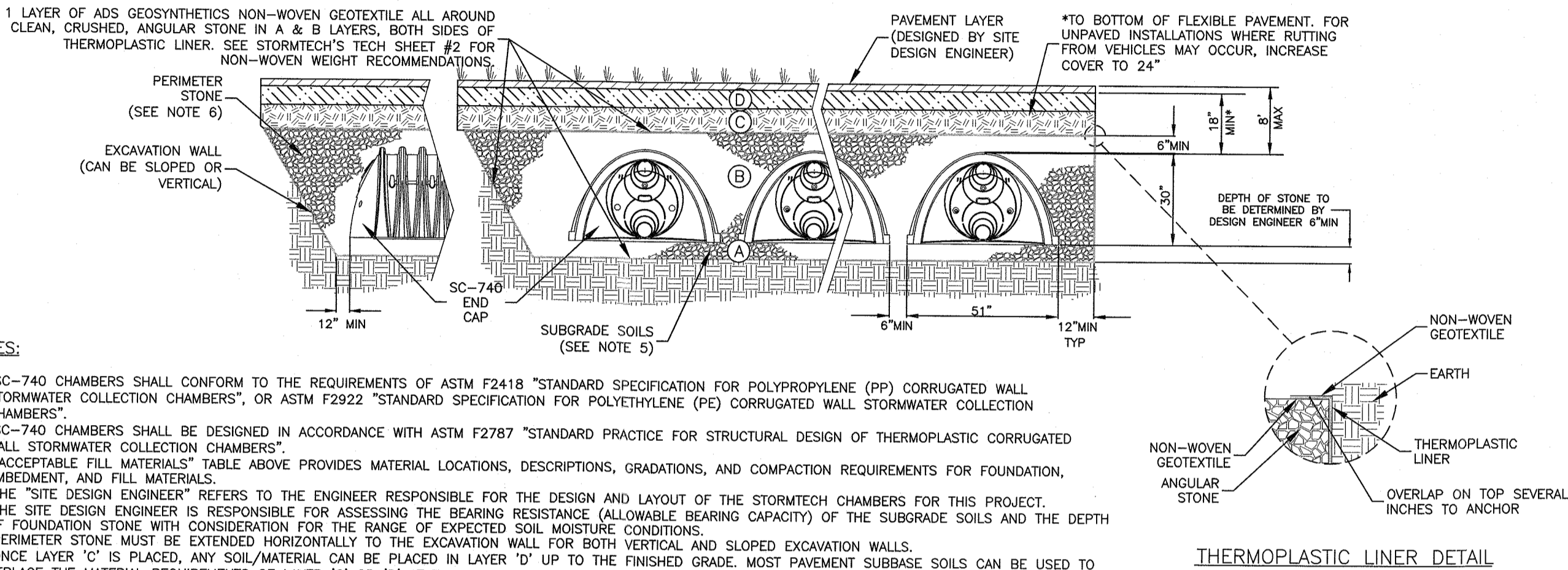
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FILE	58-21232 CULTC
SCALE	AS SHOWN
DATE	10/18/21
JOB NO.	21232

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

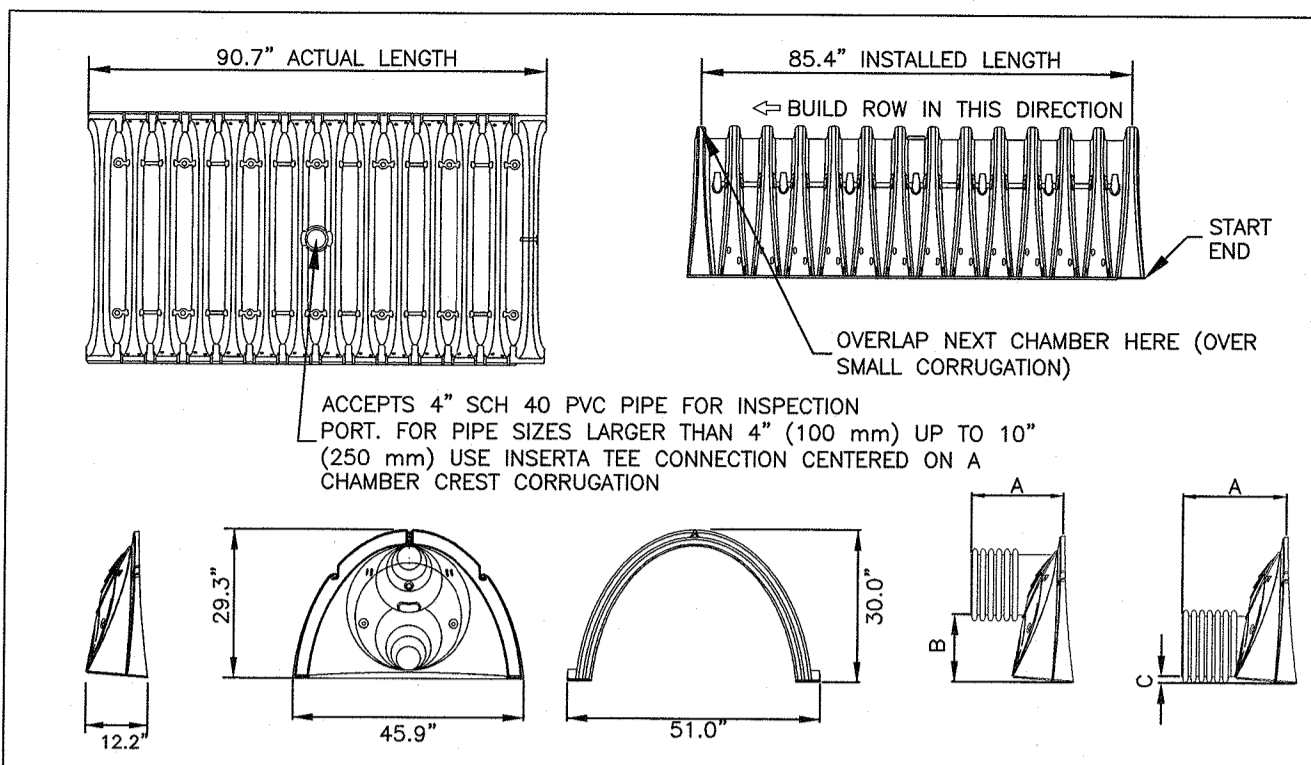
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B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	ASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
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NOTES:

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NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET (1.30 m ³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET (2.12 m ³)
WEIGHT	75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	---	---	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	---	---	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	---	---	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	---	---	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	---	---	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	---	---	---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

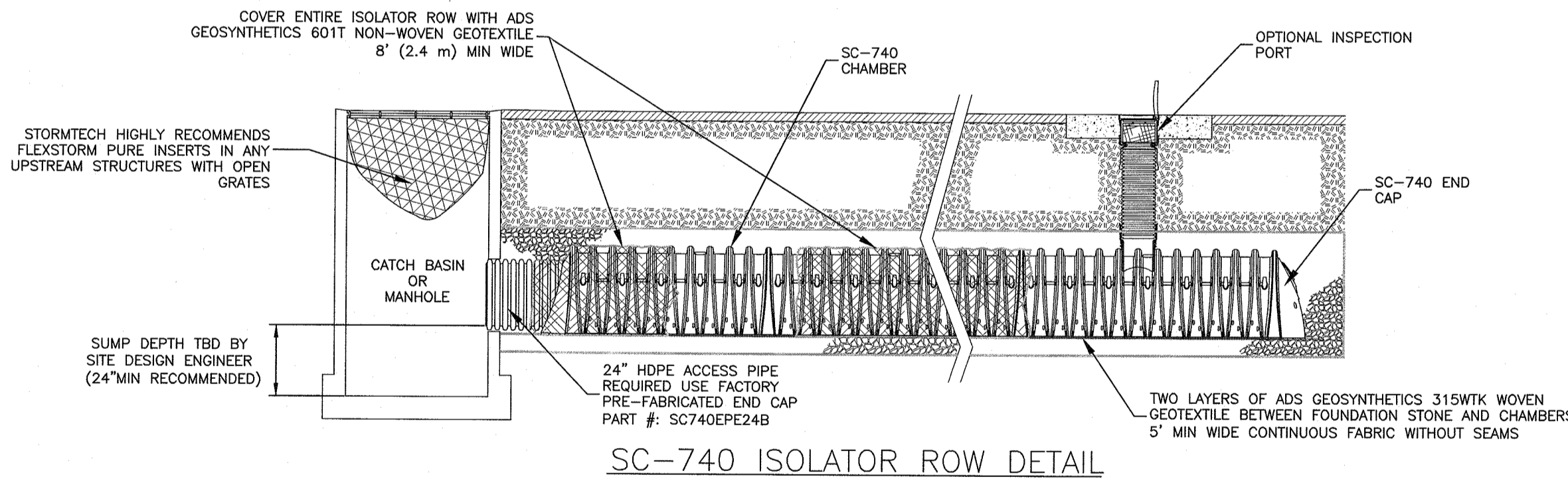
ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SC-740 TECHNICAL SPECIFICATION

N.T.S.

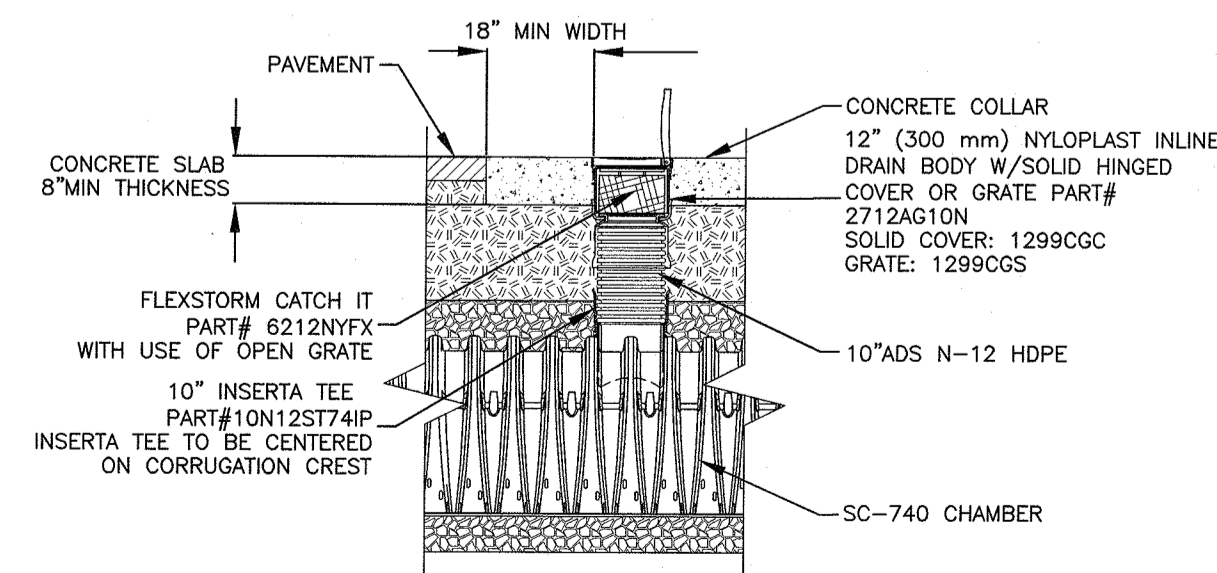
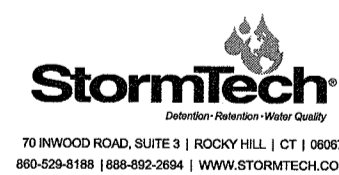


INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLOOD WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



CIVIL DESIGN WORKS LLC

CIVIL ENGINEERING CONSULTANTS AND DESIGNERS - WWW.CIVILDESIGNWORKS.COM

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NEW JERSEY OFFICE: 17 ARROWHEAD ROAD NEW JERSEY TEL: 201-644-7530

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

STATE OF NEW JERSEY LICENSED PROFESSIONAL ENGINEER

GLENN MCGREEDY, NYS LIC # 84274

DATE

STATE OF NEW YORK LICENSED PROFESSIONAL SURVEYOR

JAY A. GREENWELL, PLS NYS LIC # 49676

STORMTECH DETAIL SHEET

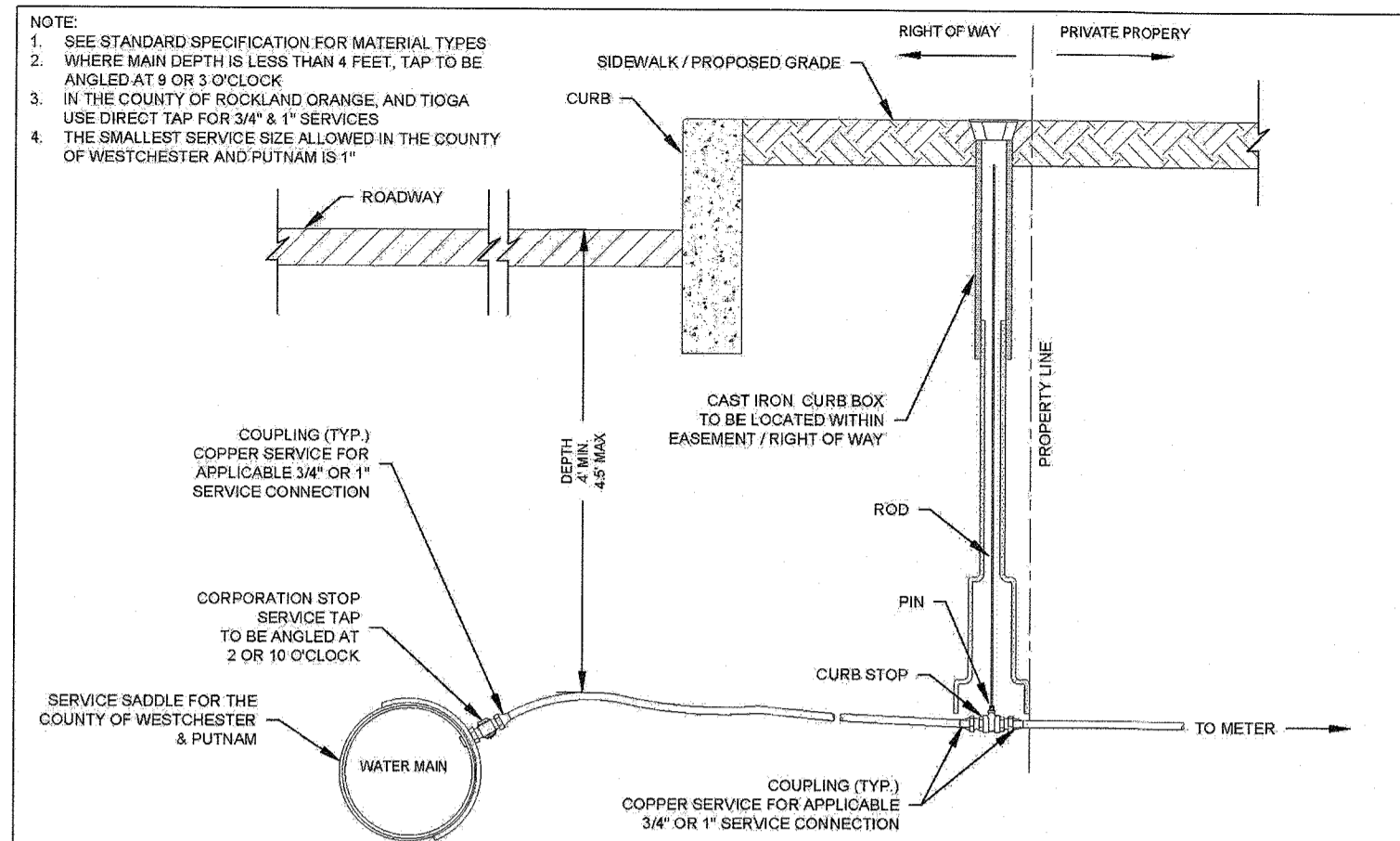
SMK ERIE WEST

TOWN OF ORANGETOWN
ROCKLAND COUNTY, STATE OF NEW YORK

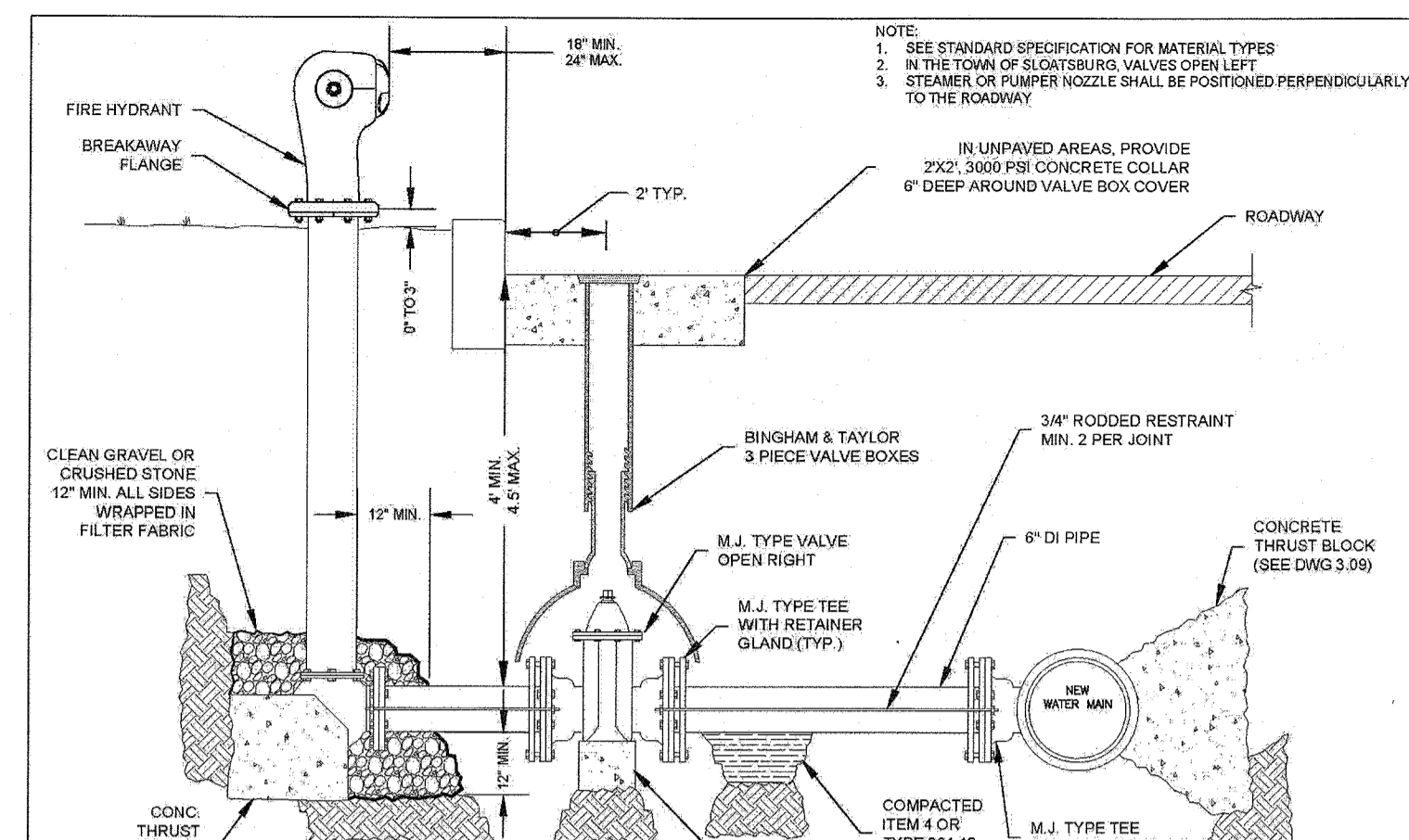
JAY A. GREENWELL, PLS, LLC

SURVEYING - LAND PLANNING
85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901
PHONE 845-357-0830 FAX 845-357-0756
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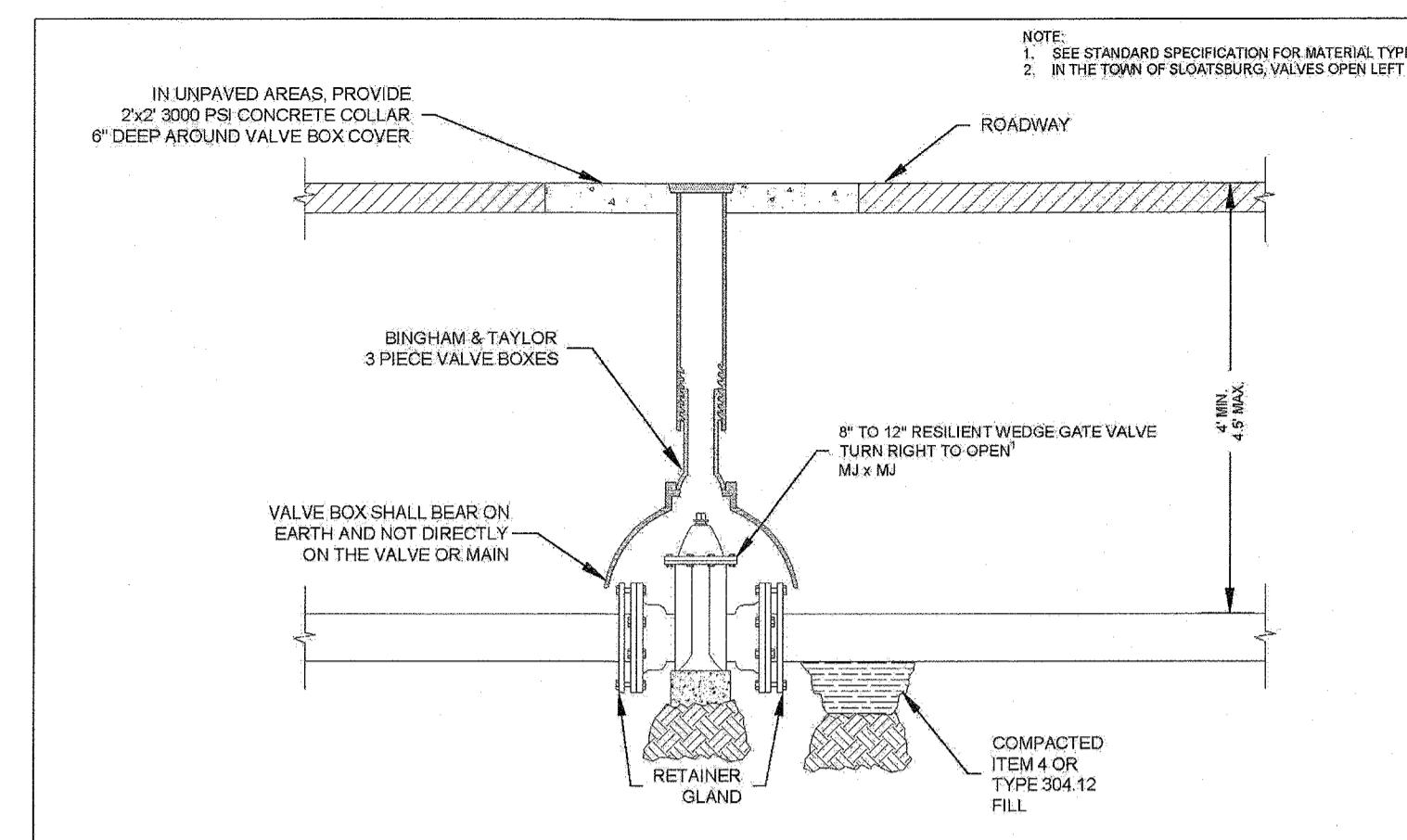
FILE	5B-21232 STORMTECH
SCALE	AS SHOWN
DATE	10/18/21
JOB NO.	21232



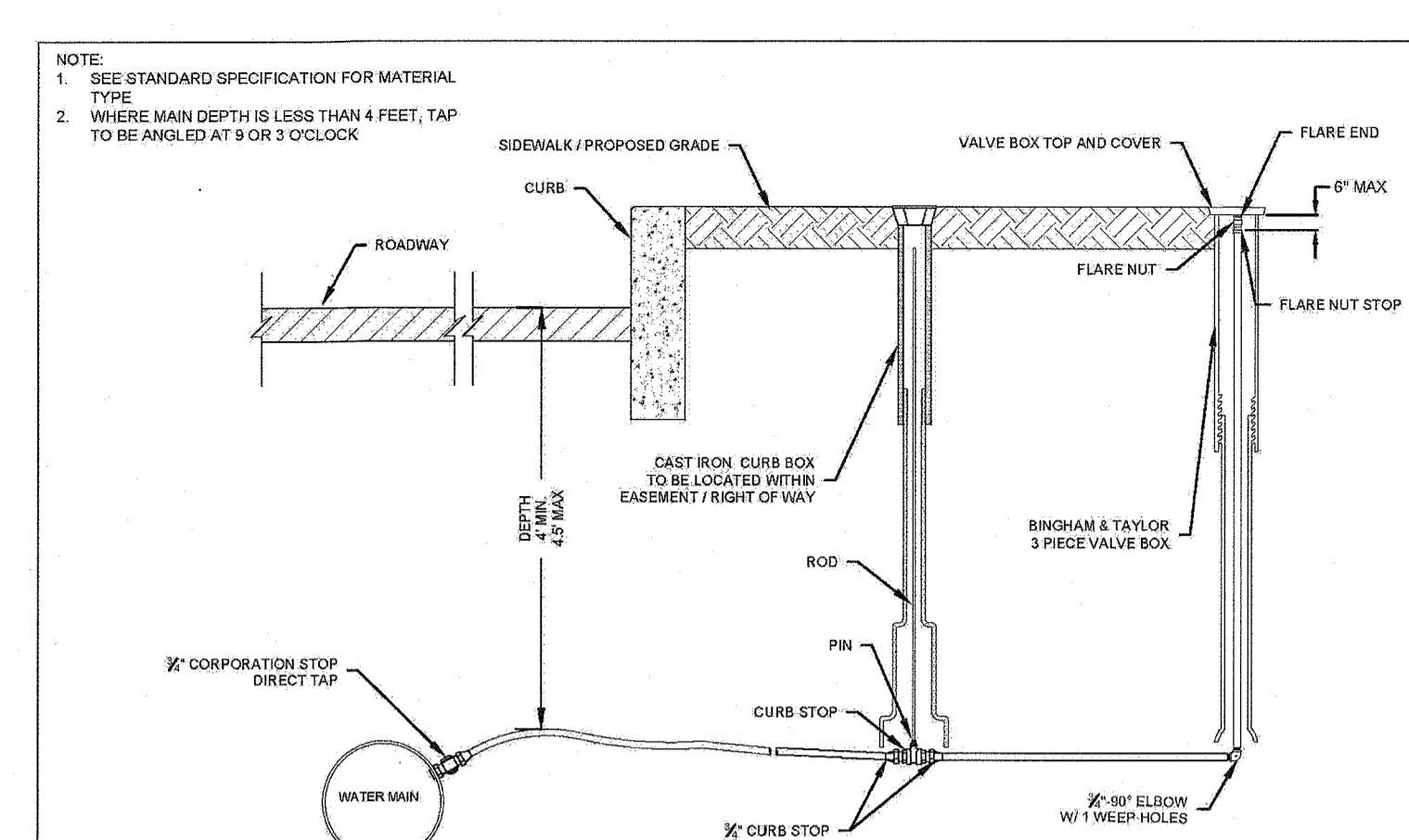
	SPECIFICATION DETAILS	DOMESTIC SERVICE CONNECTION
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.01
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.01 DATE: 1/1/19



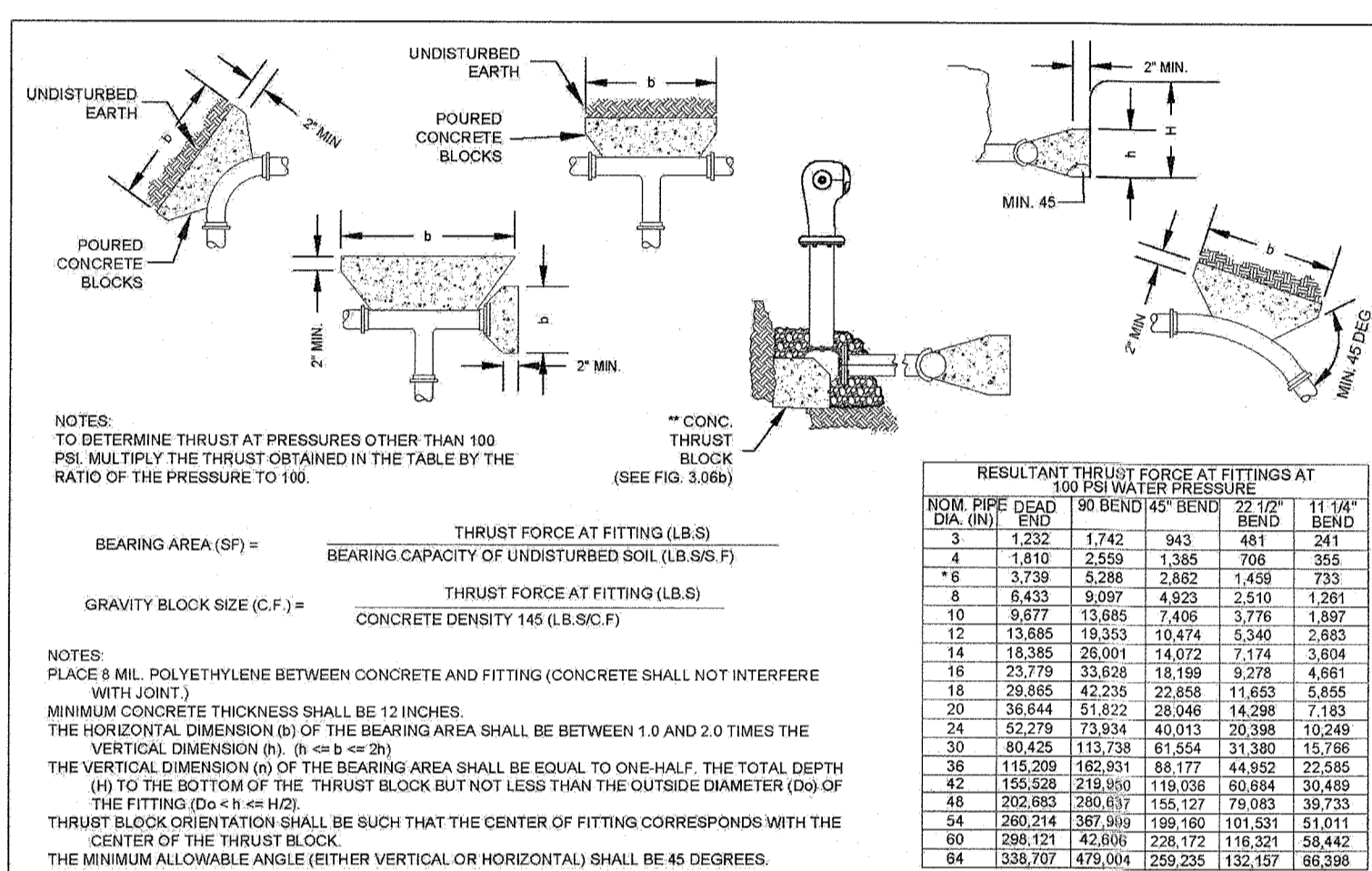
	SPECIFICATION DETAILS	FIRE HYDRANT INSTALLATION
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.08
DRAFTED BY: MG APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 4/1/19		FIGURE 3.08 DATE: 4/1/19



	SPECIFICATION DETAILS	IN-LINE GATE VALVE
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.08
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.08 DATE: 1/1/19



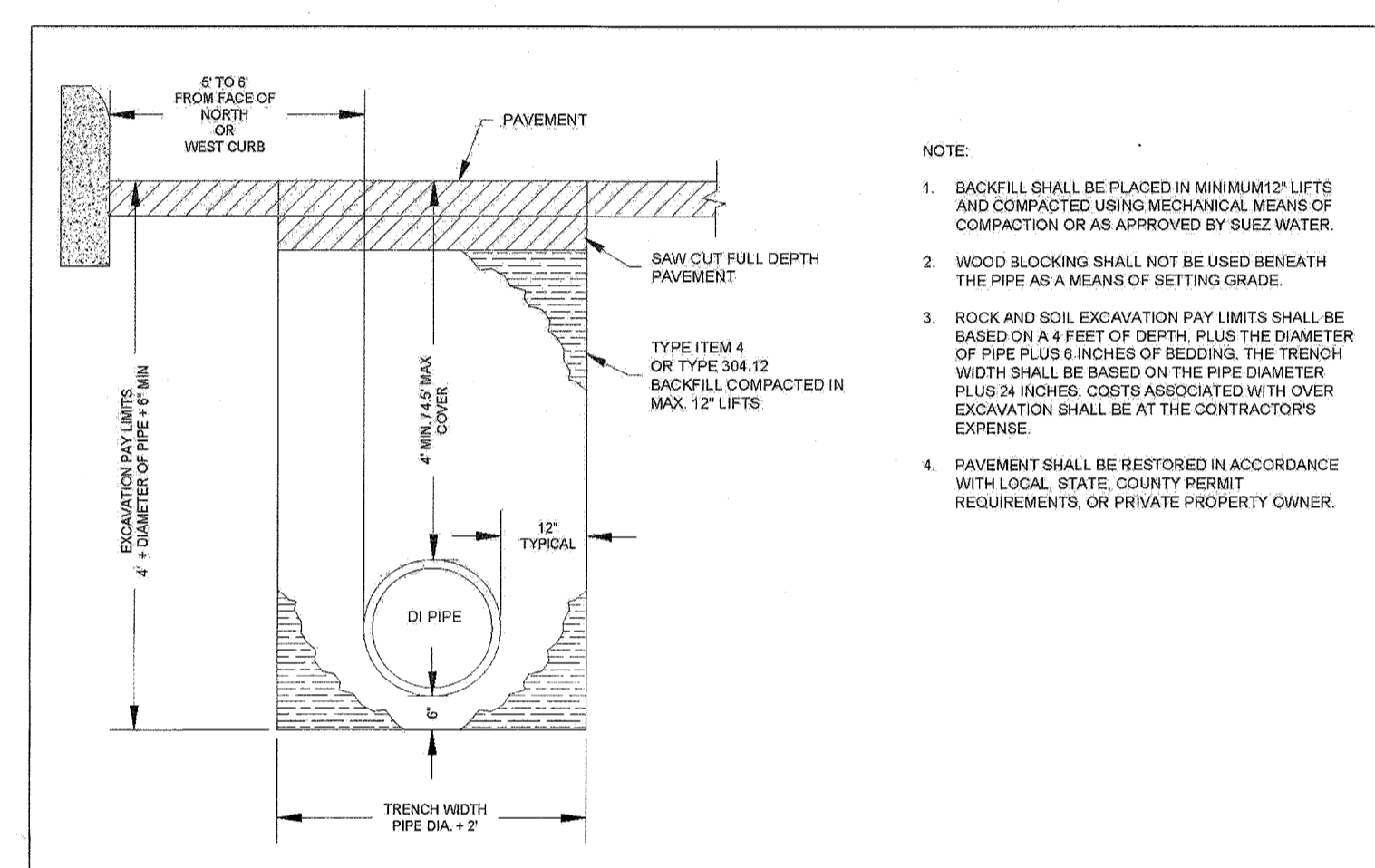
	SPECIFICATION DETAILS	CHLORINATION TAP DETAIL
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.20
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.20 DATE: 1/1/19



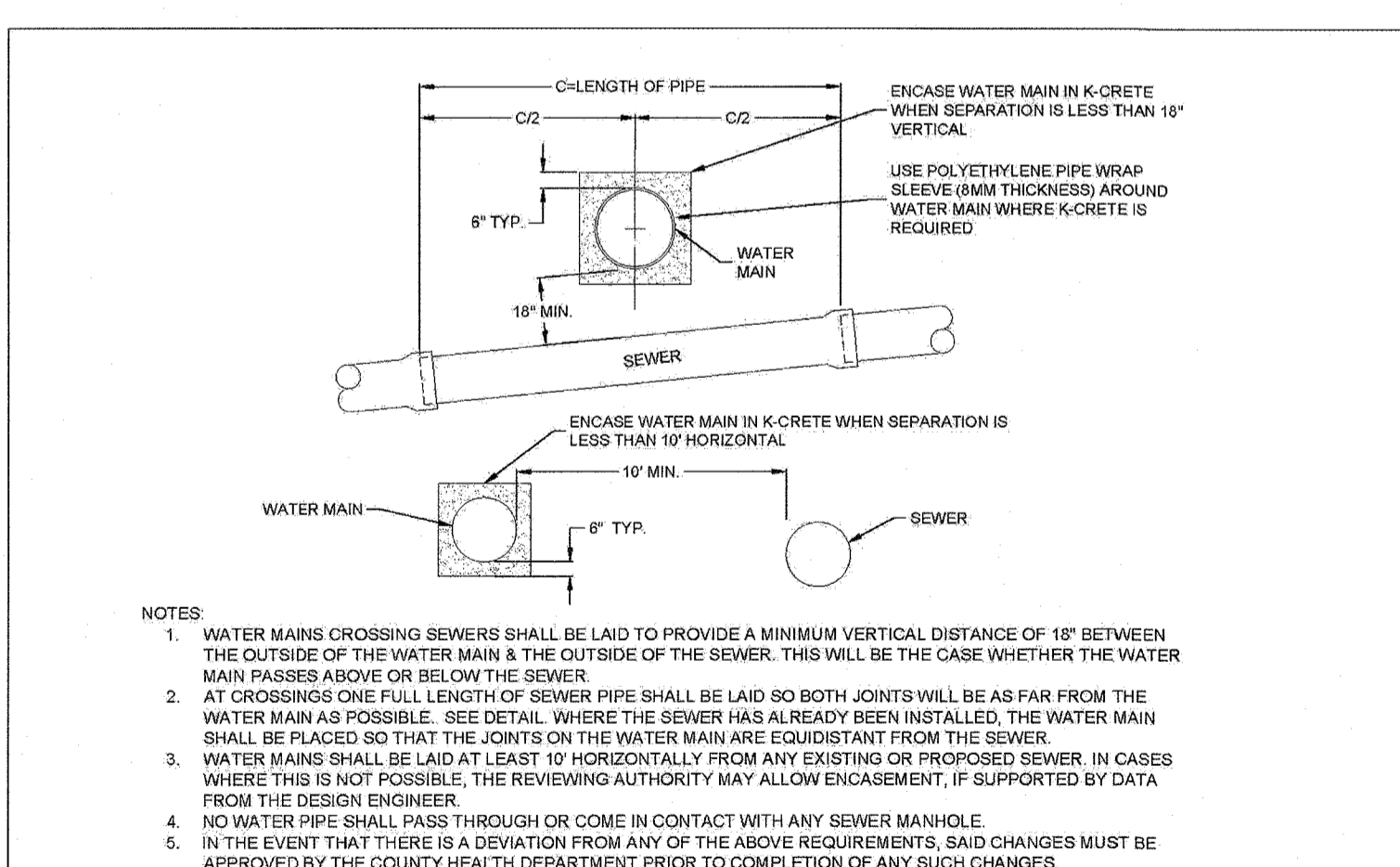
	SPECIFICATION DETAILS	TYPICAL THRUST
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.09
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.09 DATE: 1/1/19

TYPE OF SOIL	ALLOWABLE SOIL BEARING CAPACITY
MUCK, PETE, ETC.	0 LB. / FT. SQ.
SOFT CLAY	500 LB. / FT. SQ.
FINE SAND	1,000 LB. / FT. SQ.
DECOMPOSED GRANITE (D.G.)	1,500 LB. / FT. SQ.
SANDY GRAVEL	2,000 LB. / FT. SQ.
CEMENTED SANDY GRAVEL	4,000 LB. / FT. SQ.
HARD SHALE	5,000 LB. / FT. SQ.
GRANITE	10,000 LB. / FT. SQ.

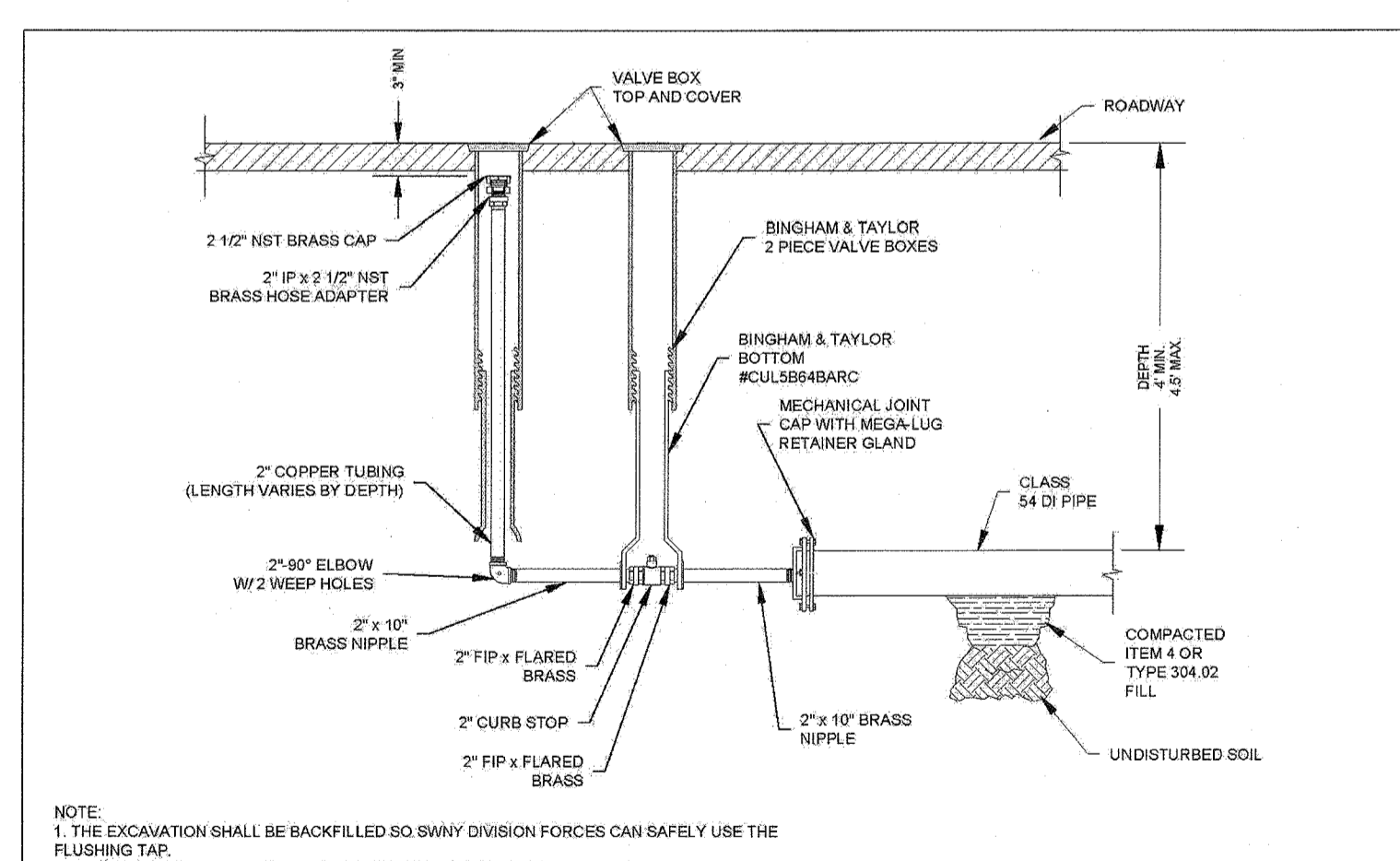
	SPECIFICATION DETAILS	TYPICAL THRUST BLOCKING
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.10
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.10 DATE: 1/1/19



	SPECIFICATION DETAILS	WATER MAIN TRENCH DETAIL
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.12
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.12 DATE: 1/1/19

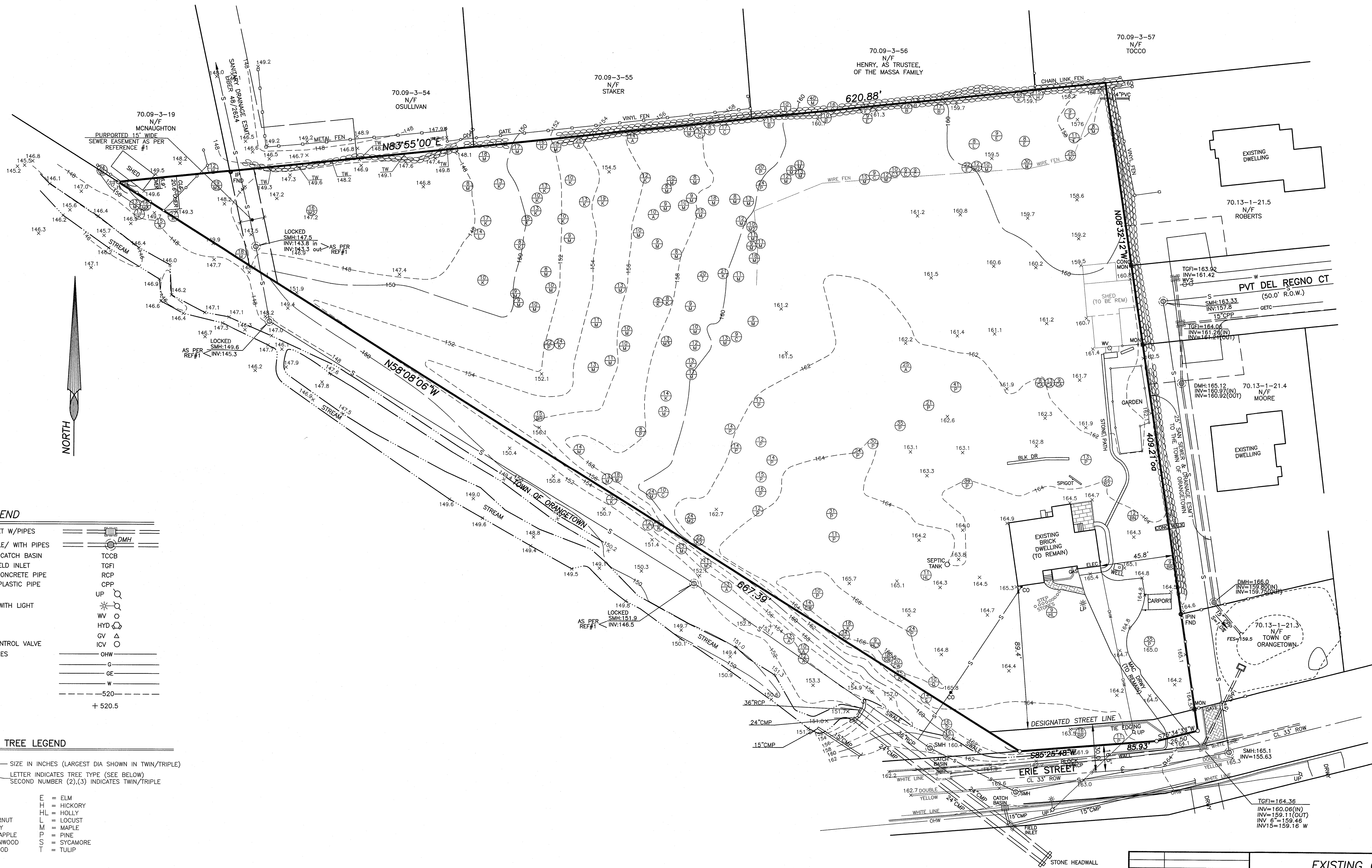


	SPECIFICATION DETAILS	TYPICAL WATER & SEWER
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.14
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.14 DATE: 1/1/19



	SPECIFICATION DETAILS	PERMANENT BLOW OFF ASSEMBLY
	INSTALLATION OF WATER SYSTEMS APPURTENANCES	FIGURE 3.15
DRAFTED BY: AR APPROVED BY: SWNY DIV. NB SCALE: NTS DATE: 1/1/19		FIGURE 3.15 DATE: 1/1/19

	CIVIL DESIGN WORKS LLC - CIVIL ENGINEERING CONSULTANTS AND DESIGNERS - WWW.CIVILDISEGNWORKS.COM		10-18-21 DATE REVISIONS	
	NEW YORK OFFICE (MAIN): 19 SQUADRON BLVD. SUITE 100 NEW YORK, NY 10994 TEL: 845-266-6441		NEW JERSEY OFFICE: 17 ARROWHEAD ROAD NEW JERSEY 07436 TEL: 201-644-7330	
		SUEZ WATER MAIN DETAILS SMK ERIE WEST TOWN OF ORANGETOWN, ROCKLAND COUNTY STATE OF NEW YORK		
		JAY A. GREENWELL, PLS, LLC SURVEYING - LAND PLANNING 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901 PHONE 845-357-0830 FAX 845-357-0756 © 2021 JAY A. GREENWELL PLS, LLC		
GLENN MCCREEDY, PE, NYS LIC # 84274		FILE 6-21232 WATER SCALE AS SHOWN DATE 04/22/21 JOB NO. 21232		



LEGEND

DRAINAGE INLET W/PIPES	
DRAIN MANHOLE/ WITH PIPES	
TOP CURB @ CATCH BASIN	TCCB
TOP GRATE FIELD INLET	TGFI
REINFORCED CONCRETE PIPE	RCP
CORRUGATED PLASTIC PIPE	CPP
UTILITY POLE	UP
UTILITY POLE WITH LIGHT	
WATER VALVE	WV
HYDRANT	HYD
GAS VALVE	GV
IRRIGATION CONTROL VALVE	ICV
OVERHEAD WIRES	OHW
GAS LINE	G
GAS, ELEC	GE
WATER LINE	W
CONTOUR LINE	-520
SPOT GRADE	+ 520.5

TREE LEGEND

	SIZE IN INCHES (LARGEST DIA SHOWN IN TWIN/TRIPLE)
	LETTER INDICATES TREE TYPE (SEE BELOW)
	SECOND NUMBER (2),(3) INDICATES TWIN/TRIPLE
A = ASH	E = ELM
B = BEECH	H = HICKORY
BR = BIRCH	HL = HOLLY
BN = BUTTERNUT	L = LOCUST
C = CHERRY	M = MAPLE
CA = CRAB APPLE	P = PINE
CW = COTTONWOOD	S = SYCAMORE
D = DOGWOOD	T = TULIP

- REFERENCES:**
1. MAP ENTITLED "TOWN OF ORANGETOWN LATERAL SEWER PROGRAM EASEMENT #1", PREPARED BY HARVEY F. POLHEMUS PROFESSIONAL ENGINEER LAST REVISED 12/10/76.
 2. MAP ENTITLED "SURVEY AND SUBDIVISION OF PROPERTY OF BOZEAT HOMES", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 3142.
 3. MAP ENTITLED "FINAL PLAT FOGARY ESTATES", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 5382.
 4. MAP ENTITLED "SUBDIVISION OF PROPERTY FOR SMK-ERIE", FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE AS MAP 8270.

8/11/21 DATE		REVISIONS REVISIONS		TAX LOT # 70.13-1-20	
				AREA 150,537 SF 3,455.9 AC	
				FILE 21232 EXIST COND	
<p align="center">EXISTING CONDITIONS</p> <p align="center">SMK ERIE WEST</p> <p align="center">TOWN OF ORANGETOWN, ROCKLAND COUNTY STATE OF NEW YORK</p> <p align="center">JAY A. GREENWELL, PLS, LLC</p> <p align="center">SURVEYING - LAND PLANNING 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901 PHONE 845-357-0830 FAX 845-357-0756 © JAY A. GREENWELL, PLS, LLC</p>				SCALE 1" = 30'	
				DATE 8-11-21	
				JOB NO. 21232	