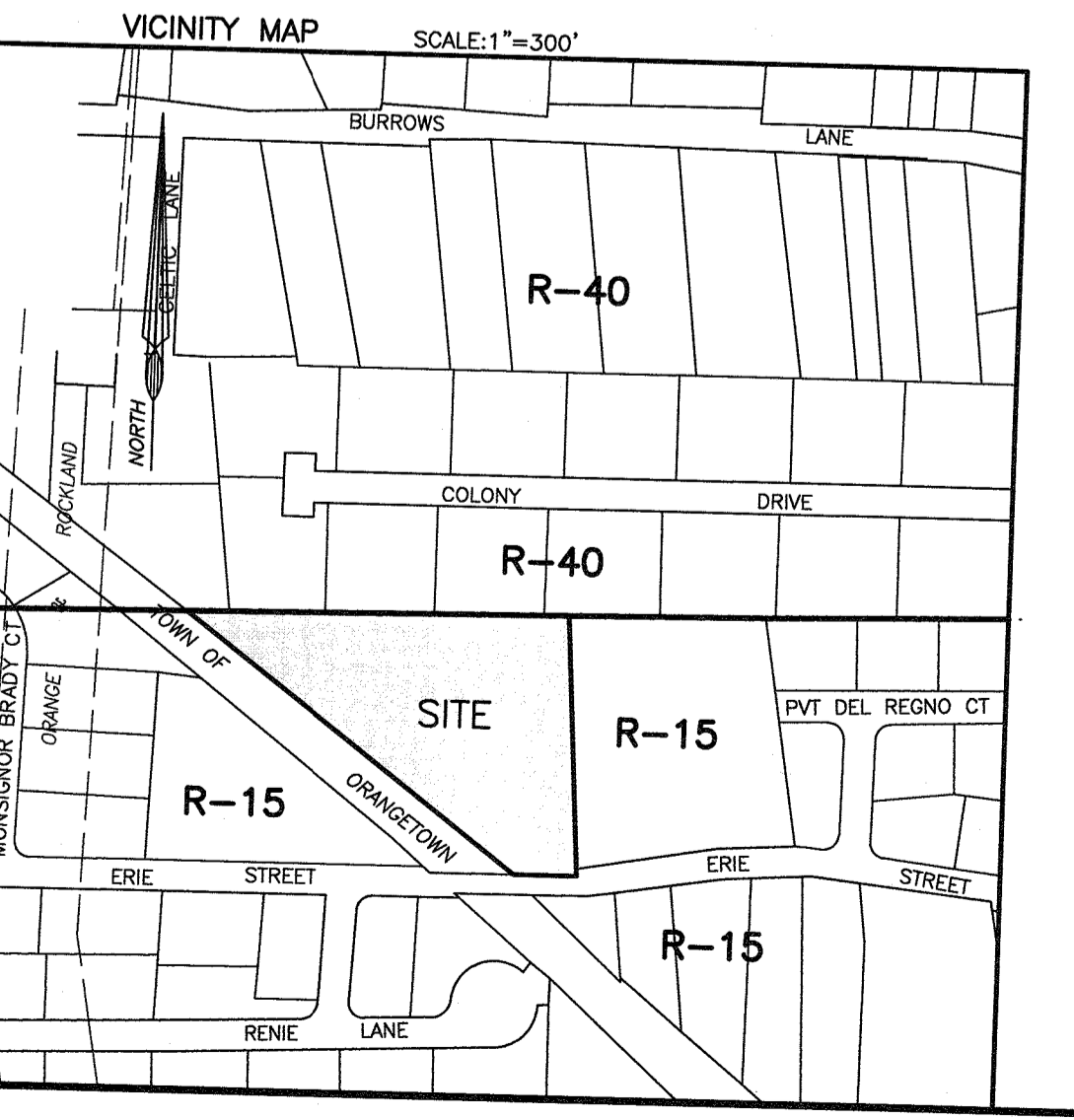


- SUBDIVISION NOTES:**
- THIS IS A SUBDIVISION OF TAX LOT 70.13-1-20 AS SHOWN ON THE TOWN OF ORANGETOWN TAX MAPS.
 - RECORD OWNER: SMK HOME BUILDERS, 24 WATERS EDGE, CONGERS, NY 10920
 - APPLICANT: SAME AS ABOVE
 - NUMBER OF LOTS: 1 EXISTING, 7 PROPOSED (ONE LOT TO BE CONVEYED TO THE TOWN OF ORANGETOWN)
 - AREA = 150,537 SF = 3.4556 AC
 - ZONE: R-15
 - ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
 - THIS PLAT 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.
 - APPROVED BY THE PLANNING BOARD AND UTILITIES AS SHOWN ON CONSTRUCTION PLANS SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND. LOT DRAINAGE SHOWN ON SUCH PLANS IS LOCATED AT THE UTILITIES (POLES, HYDRANTS, ETC.) AFFECTED BY CONSTRUCTION OF THIS SITE PLAN SHALL BE RELOCATED AT THE EXPENSE OF THE APPLICANT.
 - NO BUILDING PERMIT SHALL BE ISSUED UNTIL THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
 - NO BUILDING PERMIT SHALL BE ISSUED UNTIL RESULTS OF TEST FITS HAVE BEEN SUBMITTED TO THE BUILDING DEPT.
 - WATER SUPPLY: SUEB N
 - DATUM: NAVD 88
 - NEW TAX LOT NUMBERS SHOWN THUS: 70.13-1-X
 - ALL AREAS DISTURBED BY ON-SITE GRADING SHOULD BE LIMED AND FERTILIZED PRIOR TO SEEDING.
 - ALL AREAS DISAPPROVED WHERE REQUIRED, SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY DEPT. SPECIFICATIONS. (SIDEWALKS AND CURBS, WHERE REQUIRED, SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY DEPT. SPECIFICATIONS.)
 - ALL SEWER CONNECTIONS SHALL BE APPROVED BY THE ORANGETOWN DEPT. OF ENVIRONMENTAL MANAGEMENT AND OF ANY SANITARY SEWER WORKING 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 ADEQUATE SOIL STRENGTH AND A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN ENGINEERING, THE TOWN OF ORANGETOWN DEPT. OF ENVIRONMENTAL MANAGEMENT AND OF ANY SANITARY SEWER WORKING BEING PERFORMED.
 - ALL LANDSCAPING SHOWN ON THE SUBDIVISION PLANS SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON.
 - NO PLANTS AT THE BEGINNING OF THE USE OF THIS SITE, ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH THE SAME OR EQUIVALENT PLANTS OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON.
 - SOIL EROSION & SEDIMENTATION CONTROL AS REQUIRED BY THE PLANNING BOARD, PRIOR TO THE AUTHORIZATION OF ANY CONSTRUCTION SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. THE APPLICANT SHALL INSTALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES, THE TOWN D.E.M.E. SHALL INSPECT THE INSTALLATION OF ALL REQUIRED MEASURES FOR AN INSPECTION. 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 & EXFILTRATION LIMIT IS 100 GALLONS PER INCH DIAMETER PER MILE PER DAY. COMPLIANCE CERTIFIED BY A LICENSED NYS 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 PROTECT AND PRESERVE EXISTING TREES ARE AS FOLLOWS:
 - NO CONSTRUCTION EQUIPMENT SHALL BE PARKED ON ANY TREE PROTECTION ZONE.
 - THERE WILL BE NO EXCAVATION OR STOCKPILING UNDER THE TREE CANOPY.
 - TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
 - THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
 - ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH
 - DROP LINE OF THE TREE CANOPY
 - THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED TREE PROTECTION ZONE. IF IT MUST BE EMPLOYED TO MITIGATE THE IMPACT:
 - LIGHT TO HEAVY IMPACTS- MINIMUM OF EIGHT INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
 - LIGHT IMPACTS ONLY- INSTALLATION OF 3/4 INCH OF PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED.
 - THE BUILDER OR ITS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED FINAL APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO INCREASE, THE TREE WELL RADIUS OF SIX (6) INCHES TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH THE TREE WELL RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
 - ALL HOUSES SHALL BE SERVED BY GRAVITY SEWER CONNECTIONS WITH A MIN. SLOPE OF 2%.
 - IF THE APPLICANT, DURING THE COURSE OF CONSTRUCTION, SHALL BE LOCATED AS APPROVED BY THE PLANNING BOARD, 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 THEREUPON 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) 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.
 - 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 REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.

- LEGEND**
- DRAINAGE INLET W/PIPES
 - DRAIN MANHOLE/ WITH PIPES
 - TOP CURB @ CATCH BASIN
 - TOP GRATE 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.
15,000 SF	100 FT	75 FT	30 FT	20 FT	50 FT	35 FT	1FT/FT	0.20	
PROVIDED LOT 1	22,857 SF	183'±	113.7'	30'+	25'+	50'+	35'+	≤1'/FT	<0.20
PROVIDED LOT 2	16,135 SF	140'±	140.0'	30'+	25'+	50'+	35'+	≤1'/FT	<0.20
PROVIDED LOT 3	15,849 SF	138'±	140.0'	30'+	25'+	50'+	35'+	≤1'/FT	<0.20
PROVIDED LOT 4	16,350 SF	149'±	181.7'	30'+	25'+	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	18,711 SF	137'±	171.4'	30'+	20'+	50'+	35'+	≤1'/FT	<0.20
PROVIDED LOT 7	16,659 SF			30'+	20'+	50'+	35'+	≤1'/FT	<0.20

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

DISTRICTS
SCHOOL: SO ORANGETOWN SD392401
FIRE: BLAUVELT FD001
WATER: BLAUVELT WT001
LIBRARY: BLAUVELT LB002
AMBULANCE: SO ORANGETOWN AM001
SEWER: TOWN OF ORANGETOWN

HEALTH DEPARTMENT APPROVAL
THIS IS TO CERTIFY THAT THE "SMK GREENE 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.

OWNERS APPROVAL FOR FILING:
OWNER: _____ DATE: _____
APPROVAL-ROCKLAND COUNTY DRAINAGE AGENCY: _____

ORANGETOWN PLANNING BOARD APPROVAL:
CHAIRMAN: _____ DATE: _____

FIRE DEPARTMENT APPROVAL
CHIEF-BLAUVELT FIRE DEPT: _____ DATE: _____

SENIOR PUBLIC HEALTH ENGINEER P.E. _____ DATE: _____

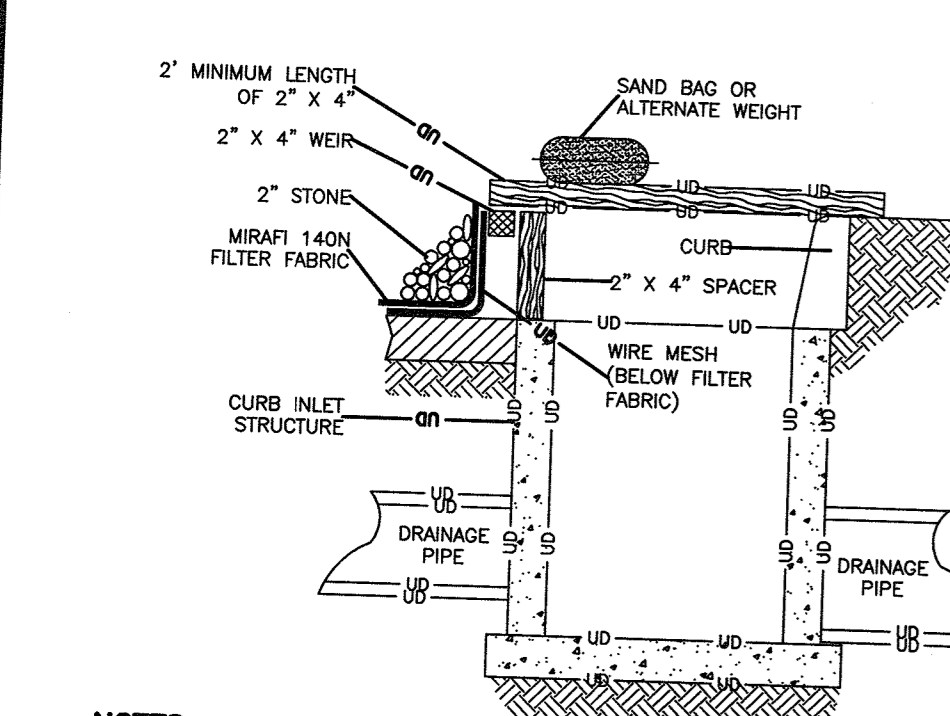
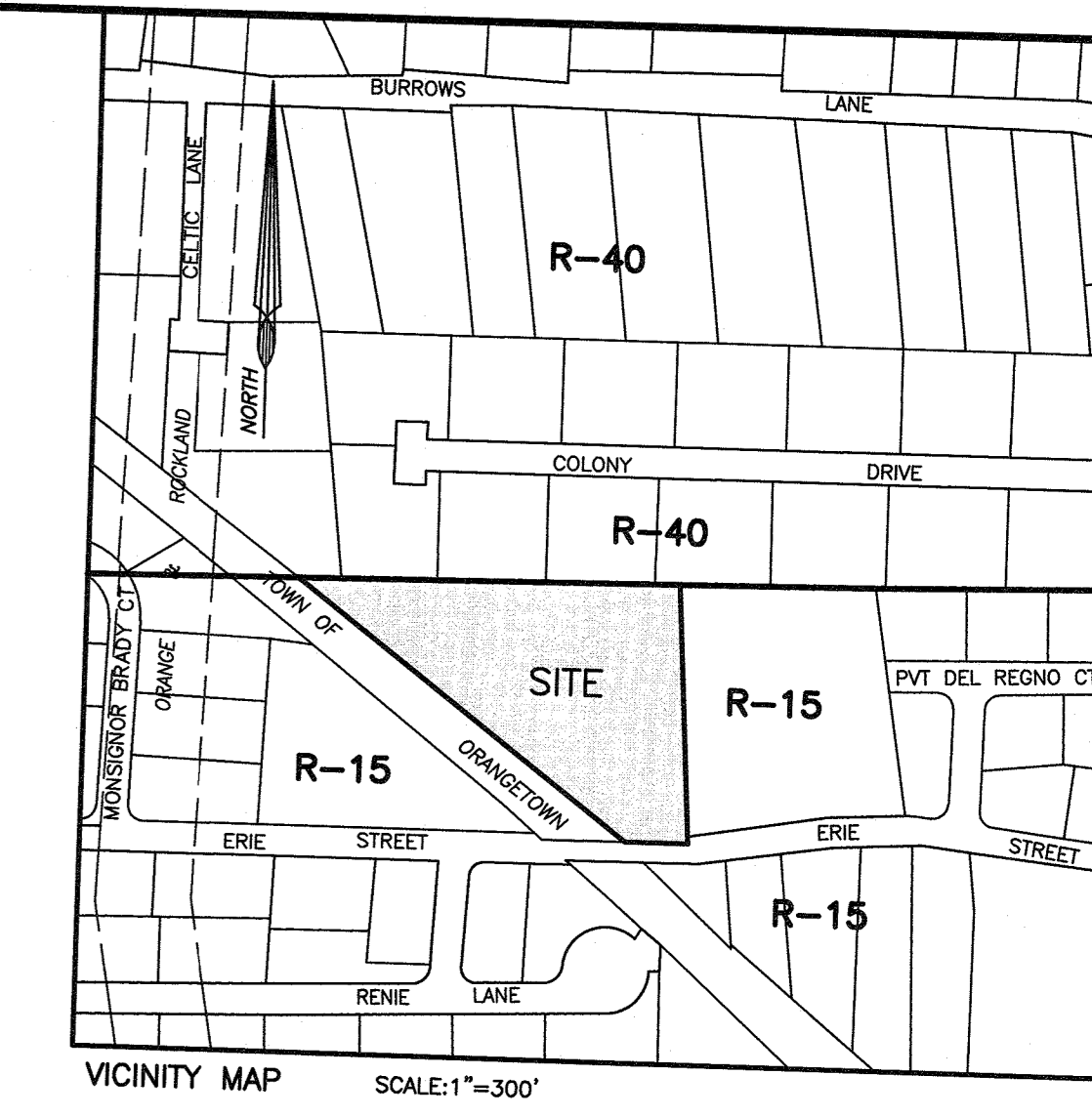
PRELIMINARY SUBDIVISION OF PROPERTY
SMK ERIE WEST
TOWN OF ORANGETOWN, ROCKLAND COUNTY
STATE OF NEW YORK

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 7 LOT
SCALE 1" = 30'
DATE 04/22/20
JOB NO. 21232

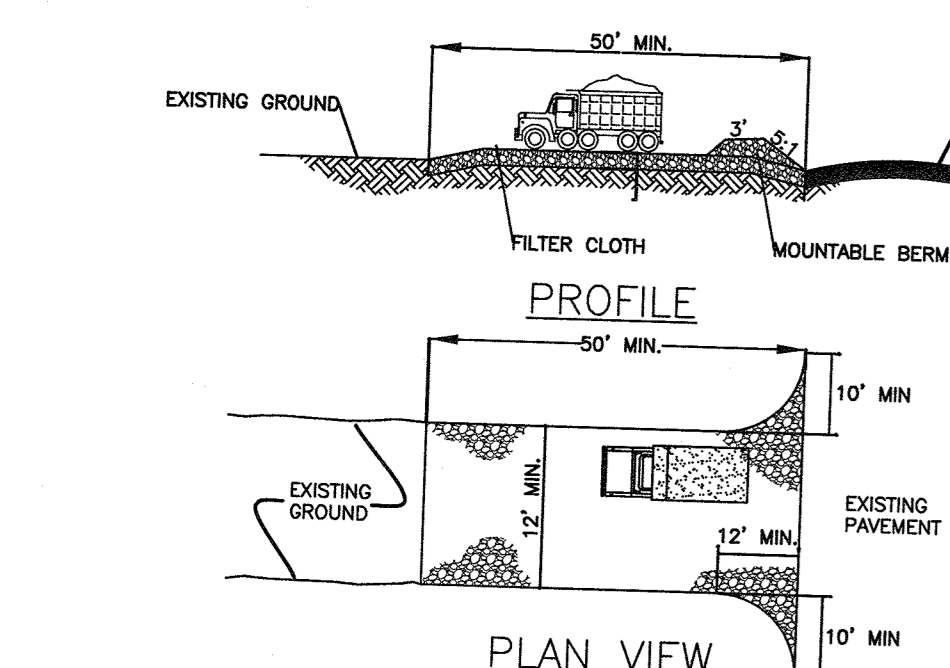
DATE _____
REVISIONS
I HEREBY CERTIFY THAT THIS SUBDIVISION PLAT WAS PREPARED BY ME AND WAS MADE FROM AN ACTUAL SURVEY COMPLETED BY ME ON 11-18-20.

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



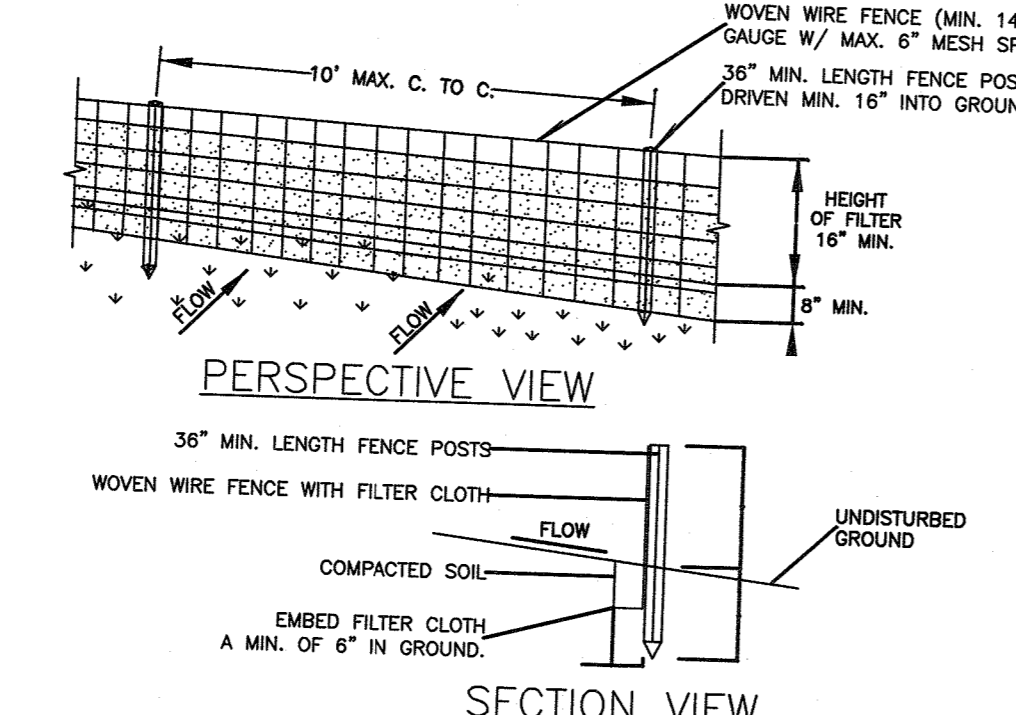
NOTES:
 1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
 2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
 3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30" MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4" WEIR.
 4. THE WEIR SHALL BE SECURELY NAILED 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. 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 MINIMUM AT SINGLE ENTRANCE SITE.
 5. SURFACE WATER - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. GEOTEXTILE - ALL SURFACE WATER FLOWING ON TO OR UNDER THE ENTRANCE SHALL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT SPILLED, DROPPED, WASHED OR TRICKLED ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRICKLED 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.



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 HARDWOOD.
 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 OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 140N, OR APPROVED EQUIVALENT.
 4. PREFABRICATED UNITS SHALL BE GEOTAF, 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.

EXIST LEGEND	
DRAIN MANHOLE/ WITH PIPES	SMH
DRAINAGE INLET W/PIPPES	DI
DRAIN MANHOLE/ WITH PIPES	DMH
TOP CURB @ CATCH BASIN	TCB
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	SP
PROP GAS SERV	GS
PROP TEL, ELEC, CABLE SERVICE	TEC
PROP GAS, ELEC, TEL, CABLE SERV	TEC
ROOF DRAIN	RD
FOOTING DRAIN	FD
UNDER DRAIN	UD
PROPOSED CONTOUR	520
PSPT GRADE	520.5
INLET PROTECTION	IP
SILT FENCE	SF

EXISTING IMPERVIOUS AREA
5,326 SF = 0.1223 AC

PROPOSED IMPERVIOUS AREA
30,374 SF = 0.6973 AC

CIVIL DESIGN WORKS
 LLC
 CIVIL ENGINEERING CONSULTANTS AND DESIGNERS -
 WWW.CIVILDESIGNWORKS.COM
 NEW YORK OFFICE (MAIN): 19 SQUADRON BLVD - SUITE 200
 NEW CITY, NEW YORK 10980 NEW JERSEY OFFICE: 17 ARROWHEAD ROAD
 NEW JERSEY 07436
 TEL: 845-266-6441 TEL: 201-644-7530

DATE: _____ REVISIONS: _____

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

STATE OF NEW YORK
 GLENN MCCREEDY, PE
 NYS LIC.# 84274

**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
 PHONE 845-357-0830 FAX 845-357-0756
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TAX LOT #
70.13-1-20

AREA
150,537 SF
3.4559 AC

FILE
21232 ERIE WEST 7 GRAD

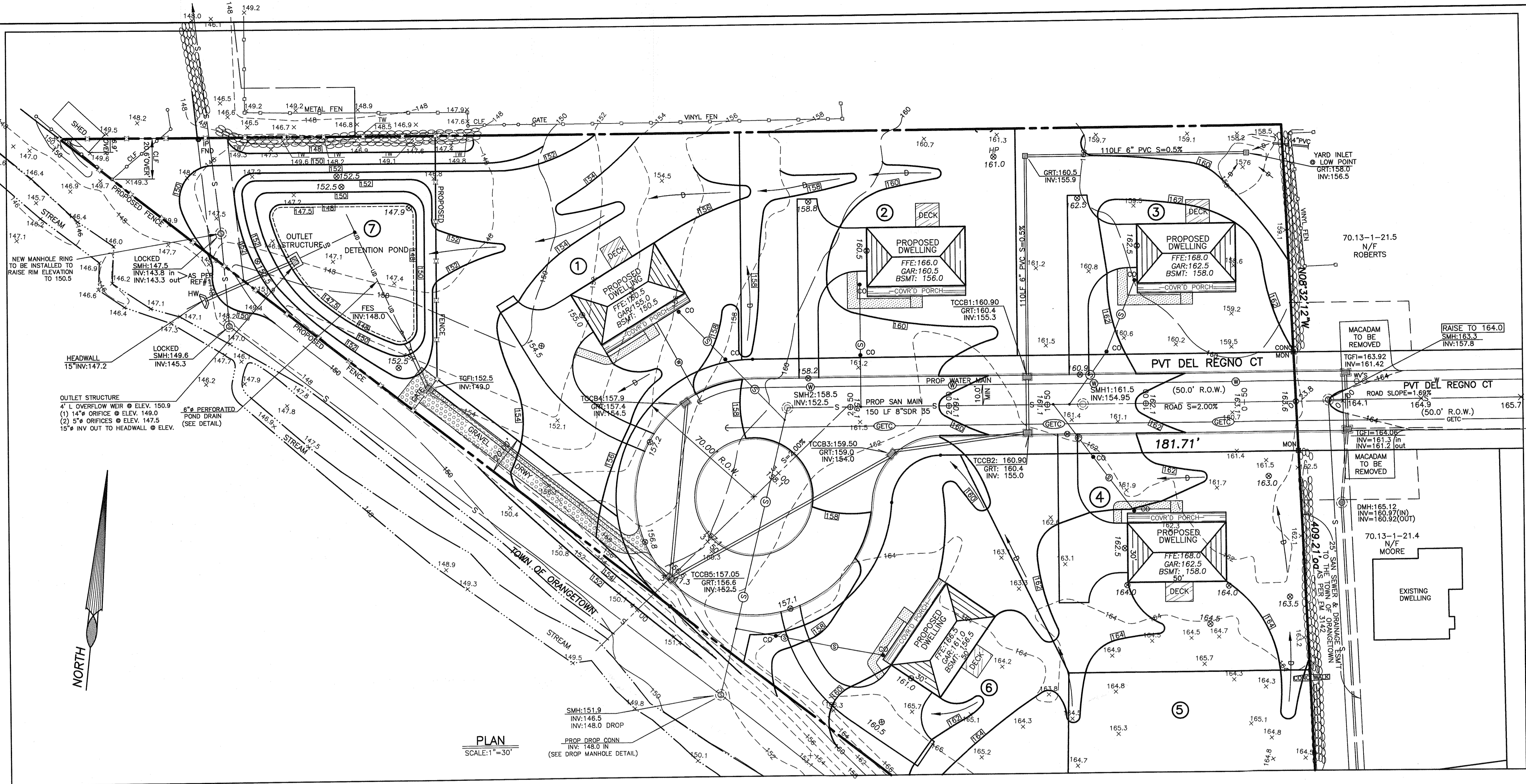
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DATE
04/22/21

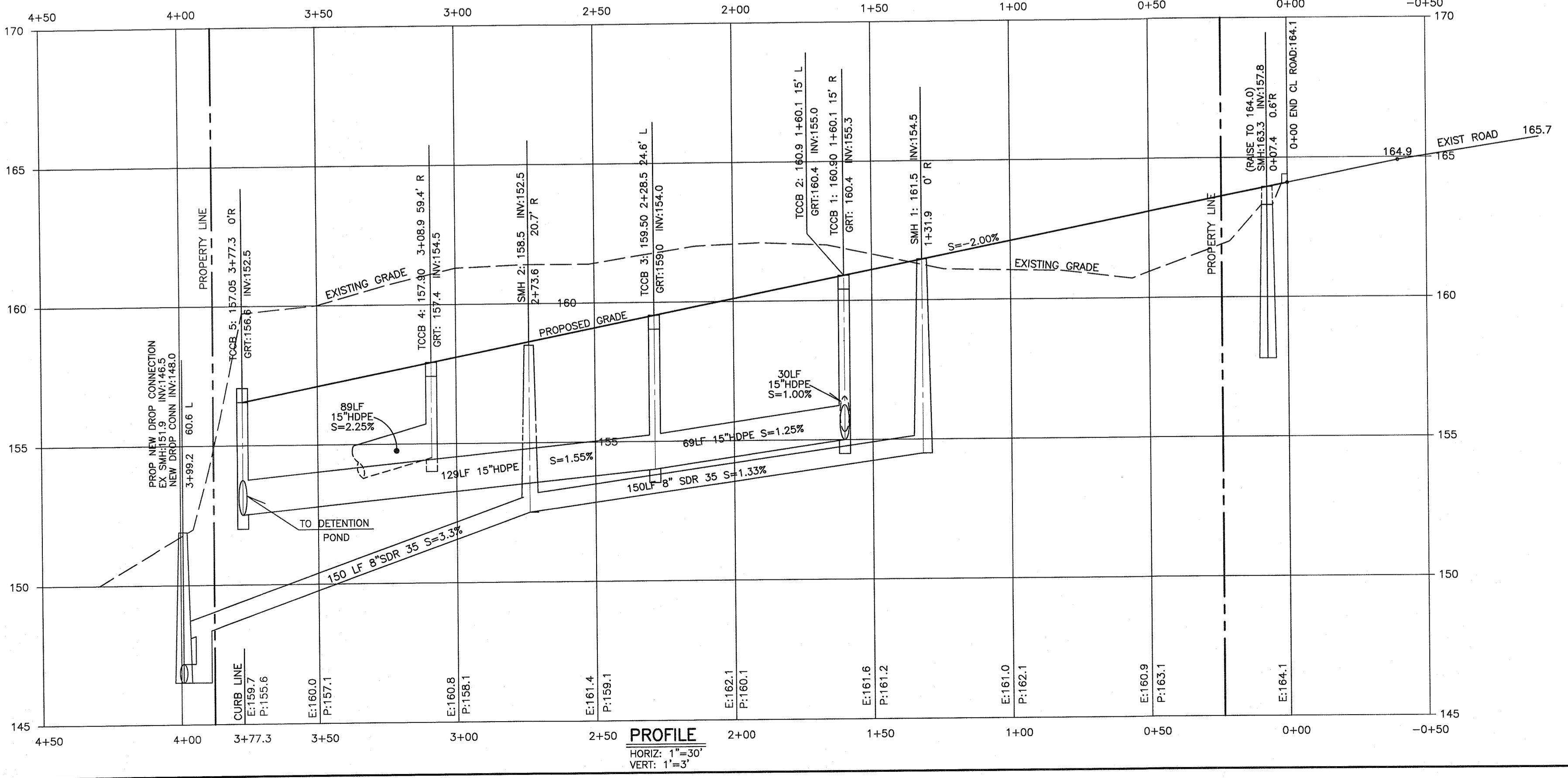
JOB NO.
21232

EXIST LEGEND	
DRAIN MANHOLE/ WITH PIPES	SMH
DRAINAGE INLET W/PIPPES	DMH
DRAIN MANHOLE/ WITH PIPES	DMH
TOP CURB @ CATCH BASIN	TCCB
TOP GRATE FIELD INLET	TGFI
REINFORCED CONCRETE PIPE	RCF
CORRUGATED PLASTIC PIPE	CPP
UTILITY POLE	UP
UTILITY POLE WITH LIGHT	WV
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	G
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
INLET PROTECTION	IP
SILT FENCE	SF



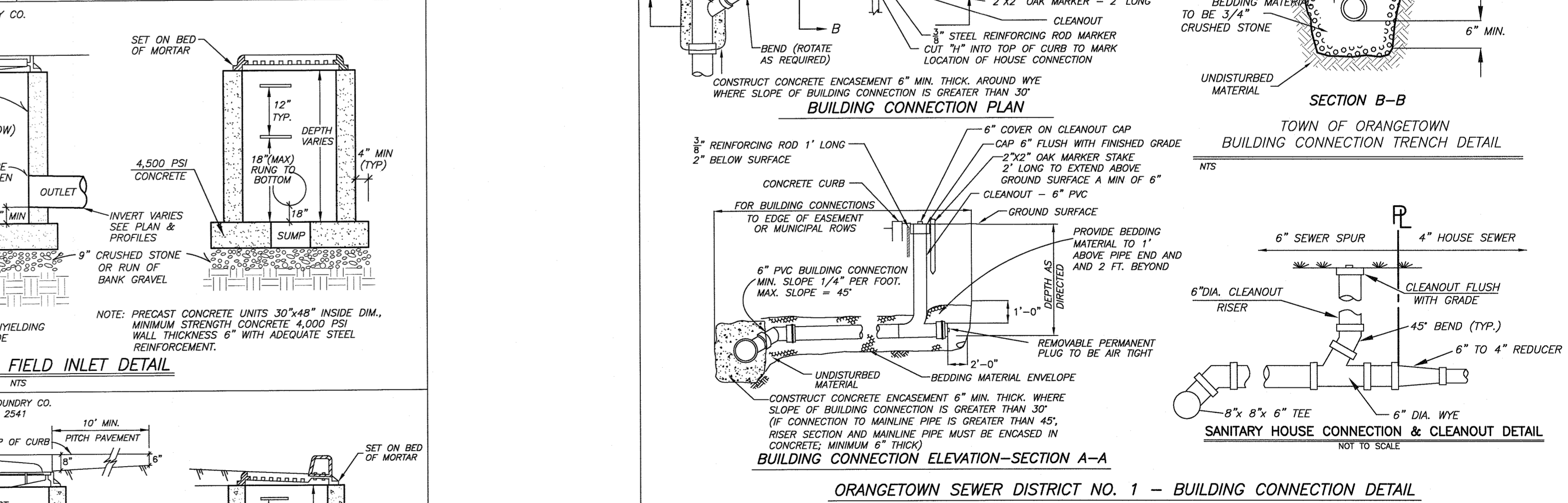
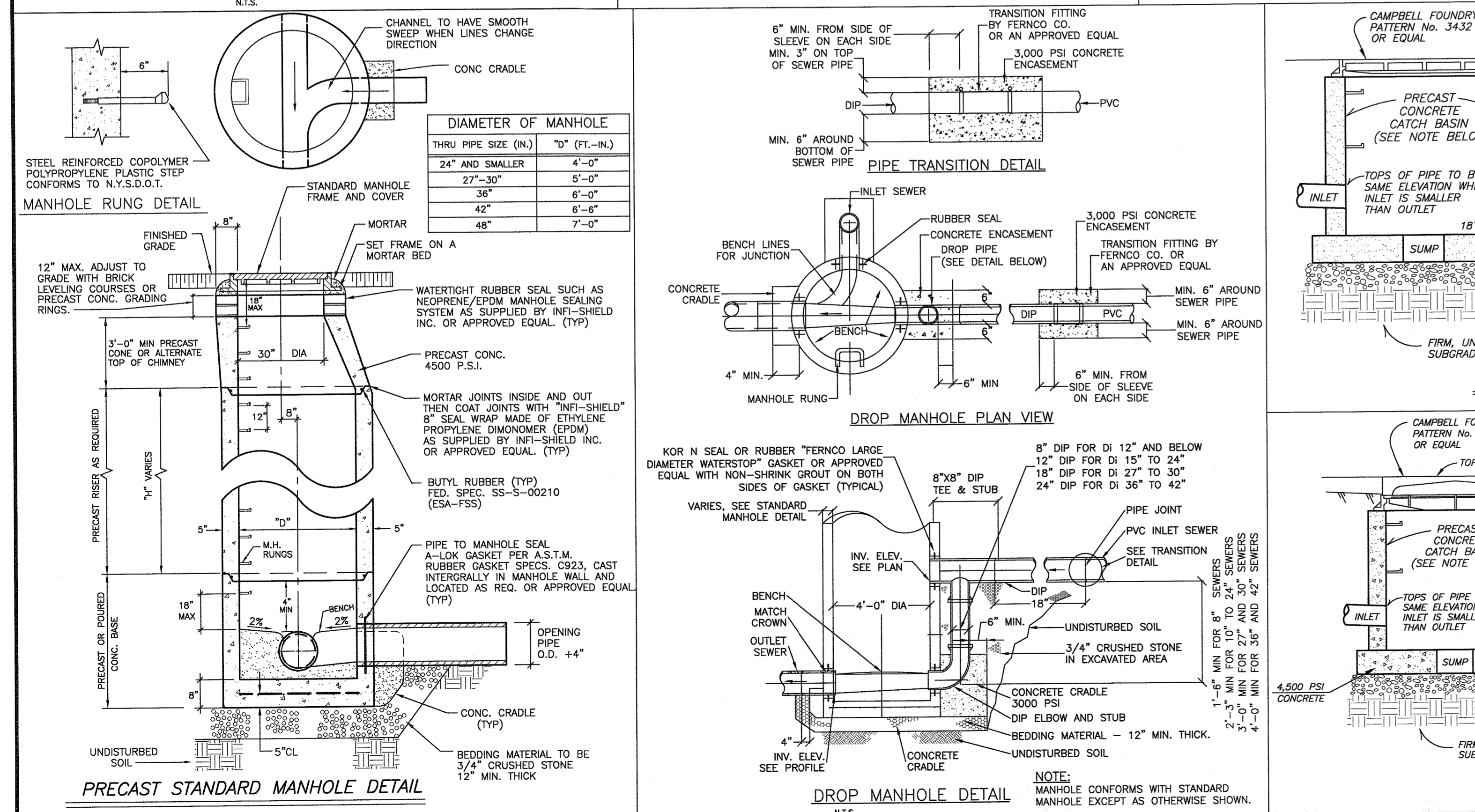
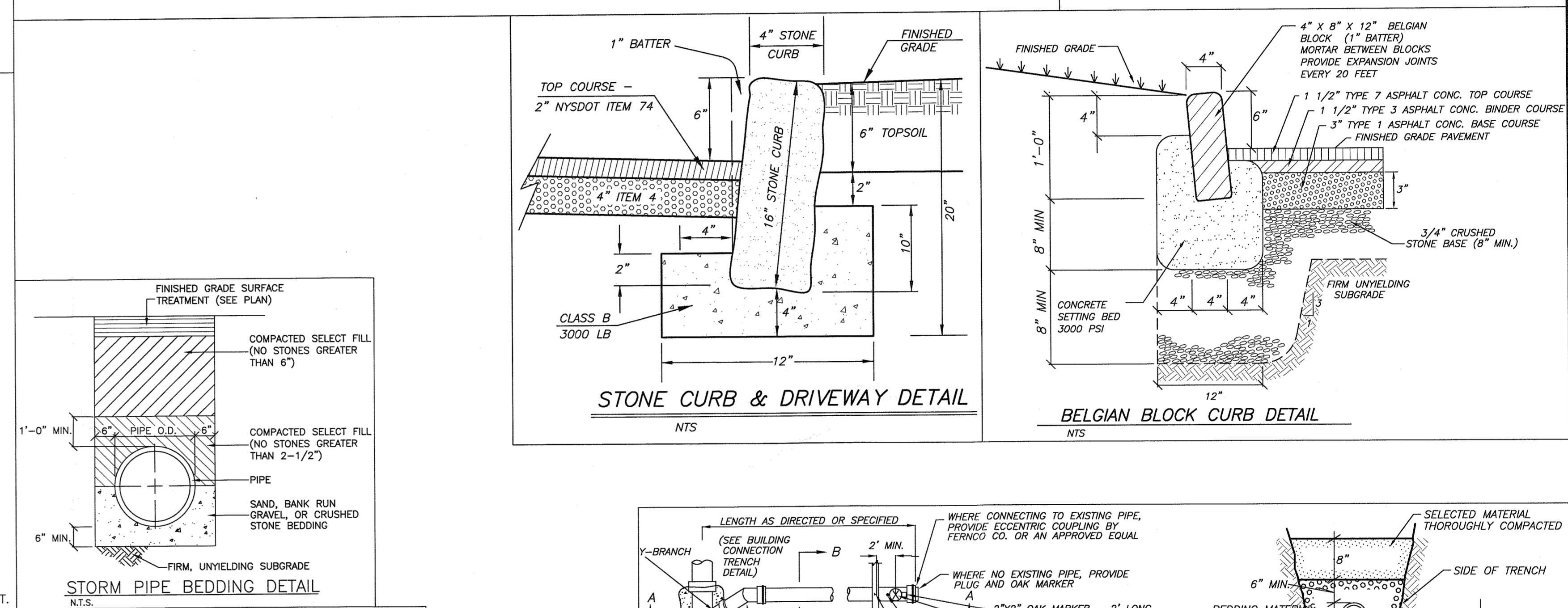
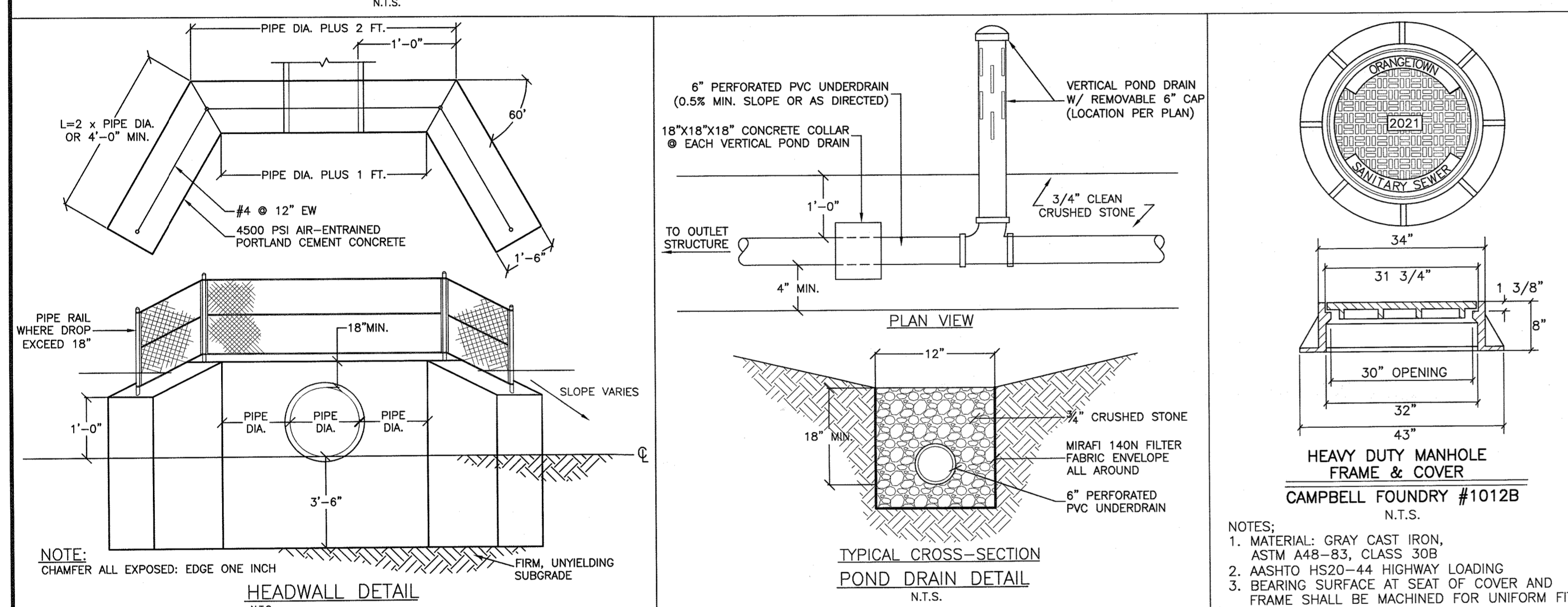
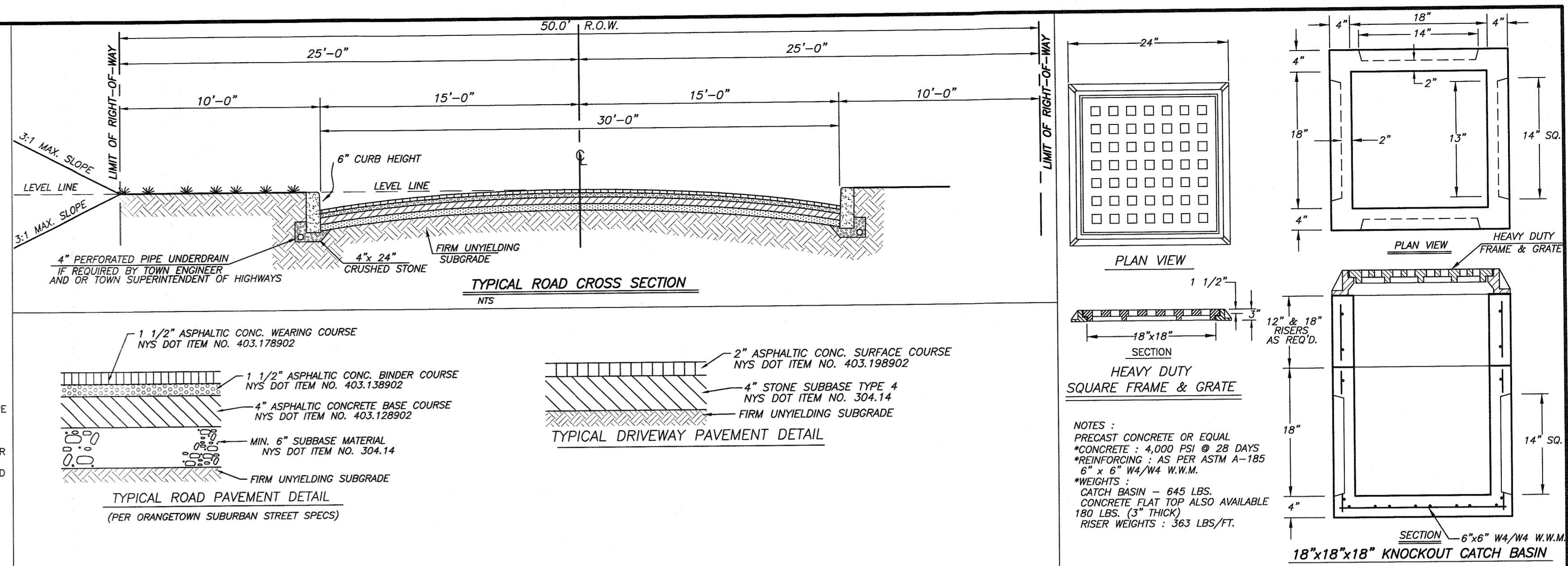
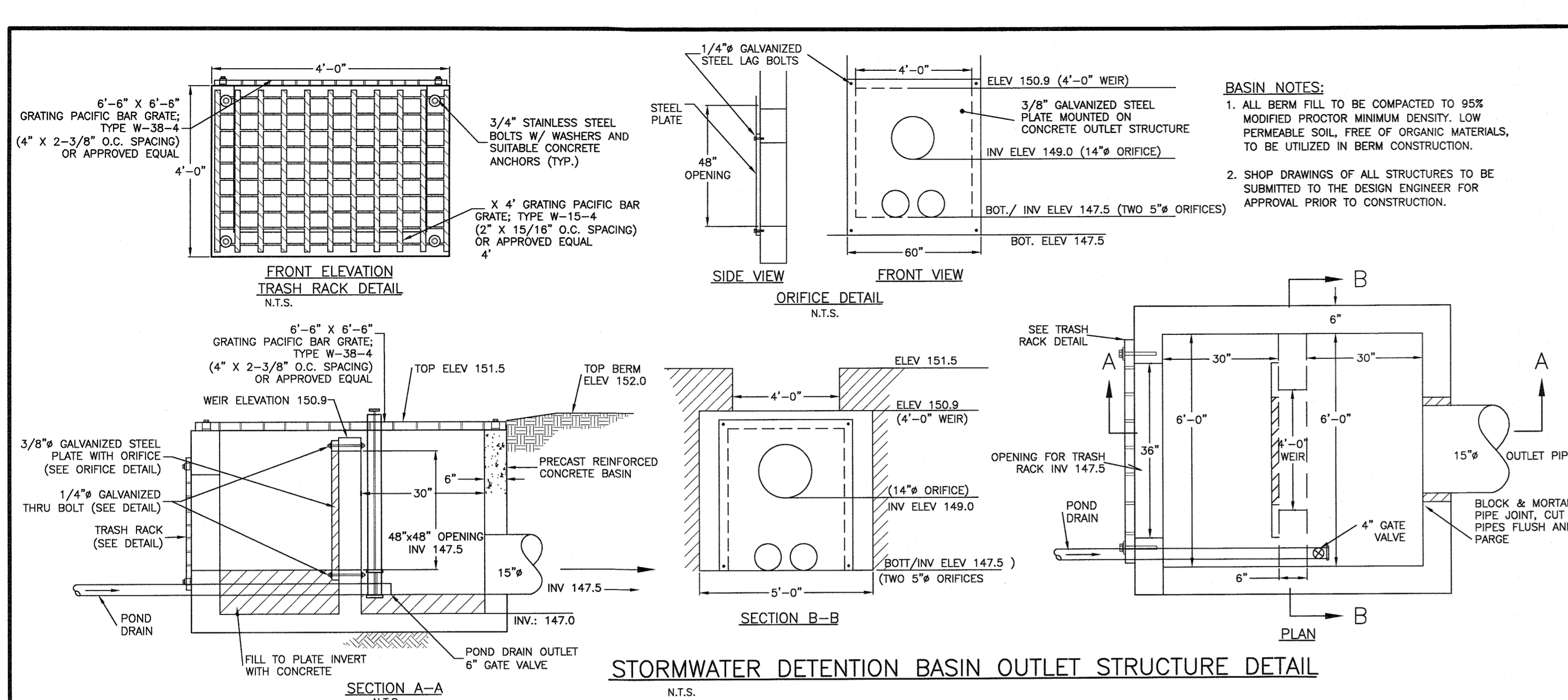
PLAN
SCALE: 1"=30'



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

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.

PRELIMINARY ROAD PROFILE		TAX LOT # 70.13-1-20	CIVIL DESIGN WORKS - CIVIL ENGINEERING CONSULTANTS AND DESIGNERS - WWW.CIVILDISENGWORKS.COM NEW YORK OFFICE (PHONE): NEW JERSEY OFFICE: 19 SQUADRON BLVD - SUITE 200 ARROWHEAD ROAD NEW CITY - NEW YORK 10996 CAKENAND NEW JERSEY - 07436 TEL: 845-266-6441 TEL: 201-644-7330
SMK ERIE WEST		AREA 150,537 SF 3.4559 AC	
TOWN OF ORANGETOWN, ROCKLAND COUNTY STATE OF NEW YORK		FILE 21232 ERIE WEST 7 GRAD	
JAY A. GREENWELL, PLS, LLC		SCALE 1"= 30'	
SURVEYING - LAND PLANNING 85 LAFAYETTE AVENUE, SUFFERN, NEW YORK, 10901 PHONE 845-357-0830 FAX 845-357-0756 © 2021 JAY A. GREENWELL PLS, LLC		DATE 04/22/21	
JOB NO. 21232		DATE 04/22/21	



CIVIL DESIGN WORKS LLC
- CIVIL ENGINEERING CONSULTANTS AND DESIGNERS -
WWW.CIVILDESIGNWORKS.COM

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TEL: 845-266-6444

NEW JERSEY OFFICE: 17 ARBONHEAD ROAD, NEW CITY, NEW YORK 10956
TEL: 845-266-6444

DATE: 04/22/21

STATE OF NEW YORK
JAY A. GREENWELL, PLS, LLC
LICENSED PROFESSIONAL ENGINEER
NO. 049293

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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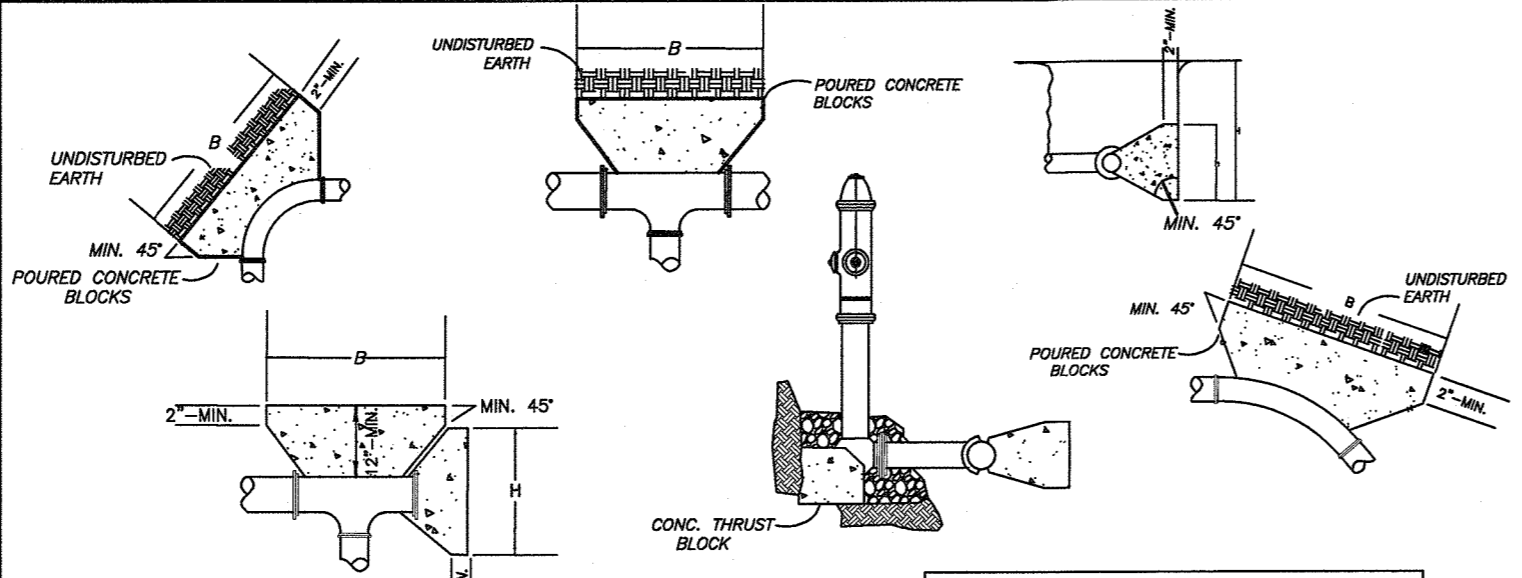
FILE 21231 DETAILS
SCALE AS SHOWN
DATE 04/22/21
JOB NO. 21232

CHART 1—ESTIMATED BEARING STRENGTH (UNDISTURBED SOIL)

TYPE OF SOIL	ALLOWABLE SOIL BEARING CAPACITY
MUCK, PEAT, 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.

NOTES:
 1. IN MUCK, PEAT OR OTHER INCOMPETENT SOILS, RESISTANCE SHALL BE ACHIEVED BY REMOVAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE INTENDED THRUSTS. DESIGN OF THRUST RESTRAINT SYSTEMS IN SUCH CASES SHALL BE PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER AND SHALL BE APPROVED BY THE AGENCY ENGINEER.
 2. FIRE HYDRANTS THAT DEAD END PIPE RUNS, THAT ARE NOT RODDED TO TEES, WILL NEED THRUST BLOCKS. THRUST BLOCKS ARE TO BE DESIGNED BY A NYS PROFESSIONAL ENGINEER AND SUBMITTED TO UNITED WATER UNDER SHOP DRAWING REVIEW PROCESS.

TYPICAL THRUST BLOCKING DESIGN CRITERIA
N.T.S.



RESULTANT THRUST AT FITTINGS AT 100 PSI WATER PRESSURE

NO. PIPE DIA. (IN)	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2	1,232	1,724	1,943	481	241
3	1,810	2,598	2,985	706	353
4	2,739	3,828	4,382	1,049	533
6	4,635	6,502	7,453	1,750	881
8	6,677	9,381	10,756	2,497	1,237
10	8,865	12,311	14,041	3,290	1,601
12	11,198	15,311	17,424	4,129	2,071
14	13,675	18,390	20,802	5,014	2,546
16	16,297	21,548	24,176	5,935	3,025
18	19,064	24,785	27,546	6,891	3,508
20	21,975	28,102	30,912	7,881	3,994
24	29,729	37,541	40,171	10,592	5,265
30	39,646	49,238	51,554	13,880	6,871
36	51,809	63,201	65,171	17,745	8,811
42	65,228	78,529	81,034	22,186	11,084
48	80,003	95,232	98,152	27,203	13,691
54	96,134	113,309	116,631	32,795	16,631
60	113,621	132,751	137,651	38,962	19,901
66	132,454	153,559	159,821	45,704	23,501
72	152,633	175,732	183,351	53,021	27,431
78	174,158	199,271	208,251	60,914	31,691
84	197,029	224,176	234,521	69,381	36,291
90	221,246	250,447	262,151	78,424	41,231
96	246,809	278,084	291,141	88,041	46,511
102	273,728	307,087	321,481	98,231	52,131
108	301,993	337,456	353,171	109,001	58,091
114	331,604	369,191	386,211	120,351	64,391
120	362,561	402,291	420,601	132,281	71,031

BEARING CAPACITY OF UNDISTURBED SOIL (LB./FT. SQ.)

THRUST FORCE AT FITTING (LBS.)

THRUST FORCE AT FITTING (LBS./FT.)

CONCRETE DENSITY 145 (LBS./CU. FT.)

NOTE: PLACE 8 #4 POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT).

NOTE: MIN. CONC. THICKNESS SHALL BE 12 INCHES.

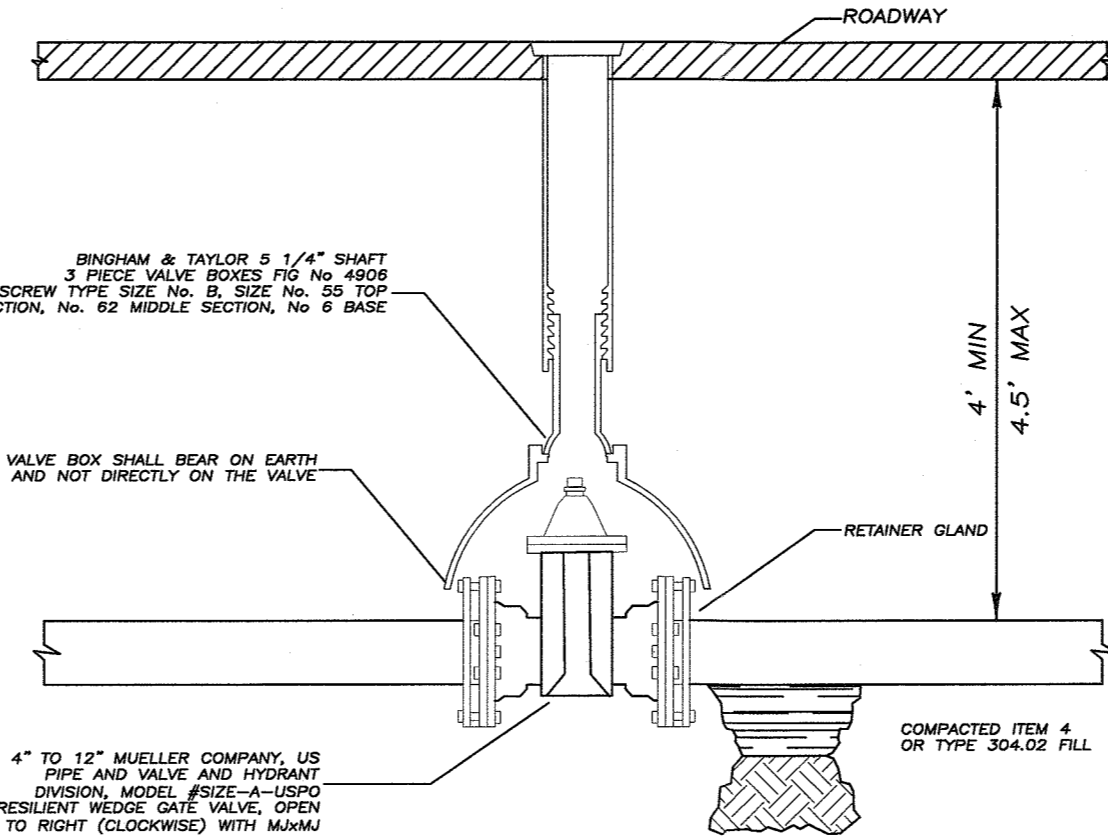
NOTE: THE HORIZONTAL DIMENSION (B) OF THE BEARING AREA SHALL BE BETWEEN 1.0 AND 2.0 TIMES THE VERTICAL DIMENSION (H) (H=MINIMUM).

NOTE: THE VERTICAL DIMENSION (H) OF THE BEARING AREA SHALL BE EQUAL TO ONE-HALF THE TOTAL LENGTH (L) TO THE BOTTOM OF THE THRUST BLOCK BUT NOT LESS THAN THE OUTSIDE DIAMETER (D) OF THE FITTING (D ≤ L <= 1/2 L).

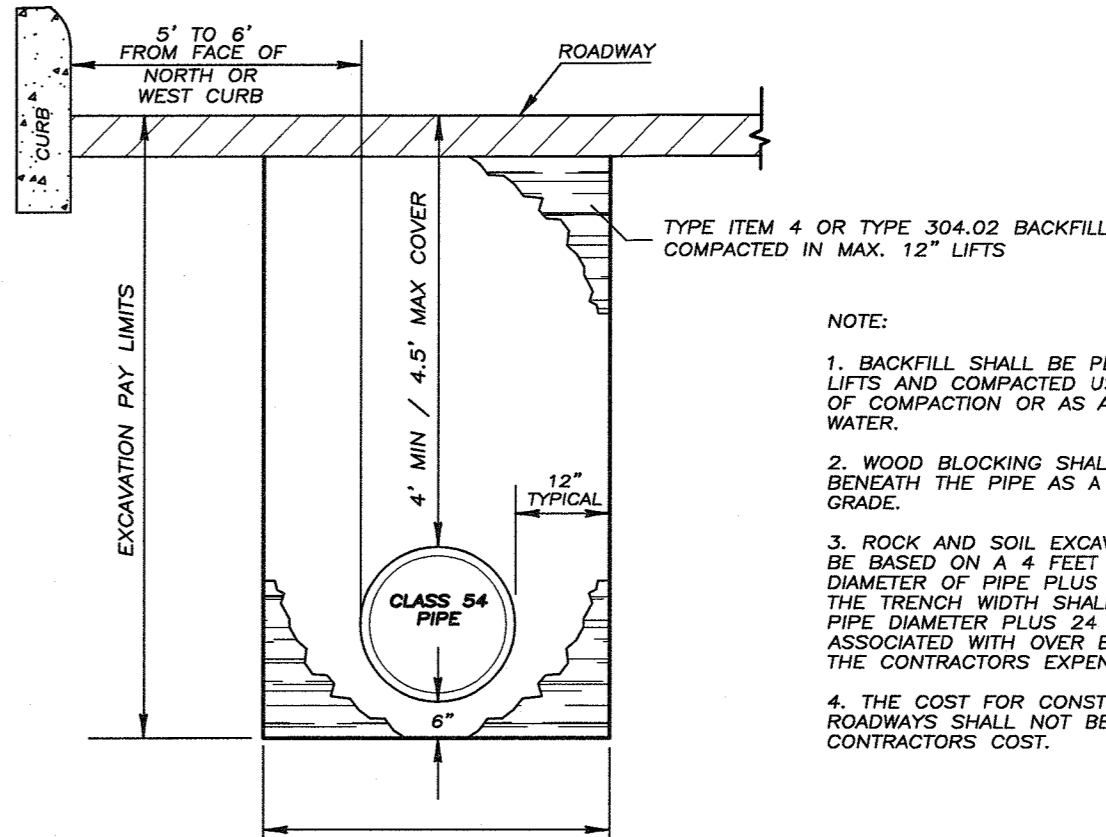
NOTE: THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.

NOTE: THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

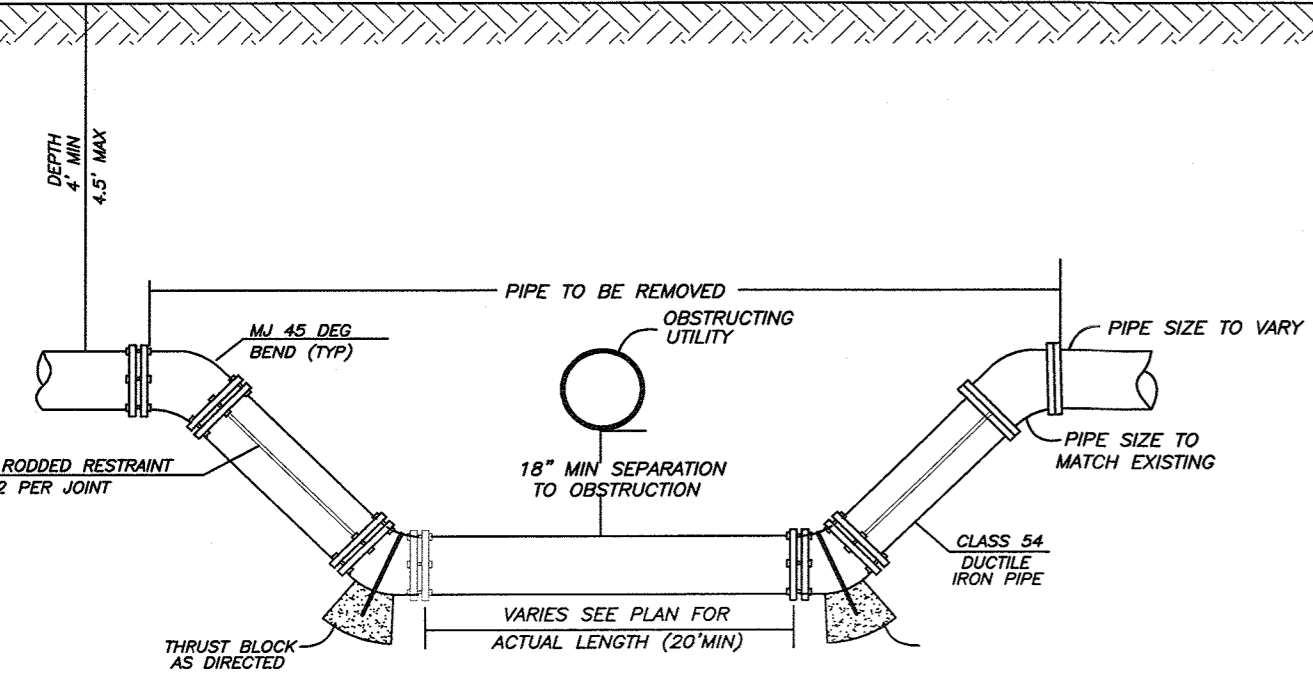
TYPICAL THRUST BLOCKING DETAIL
N.T.S.



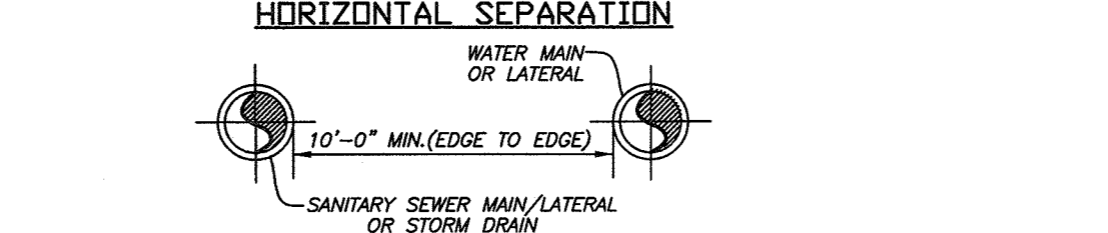
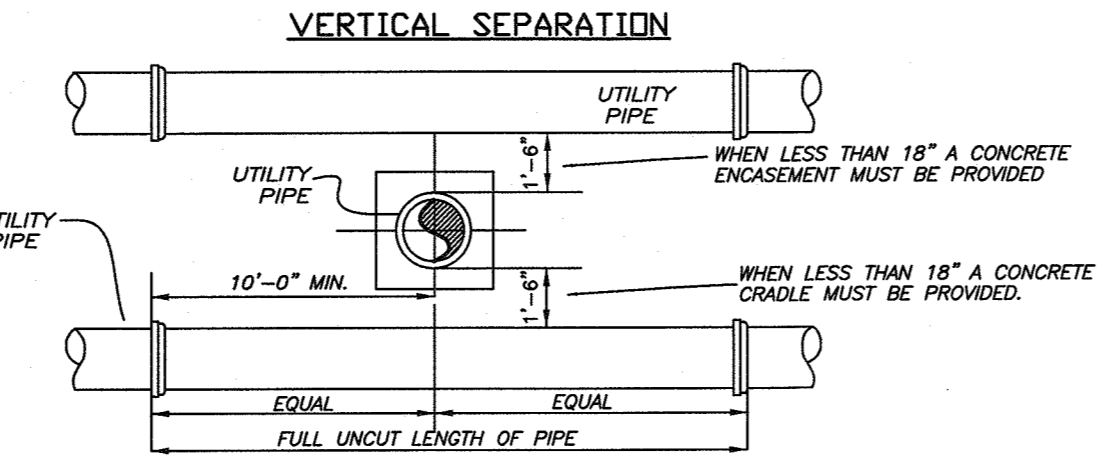
GATE VALVE INSTALLATION DETAIL
N.T.S.



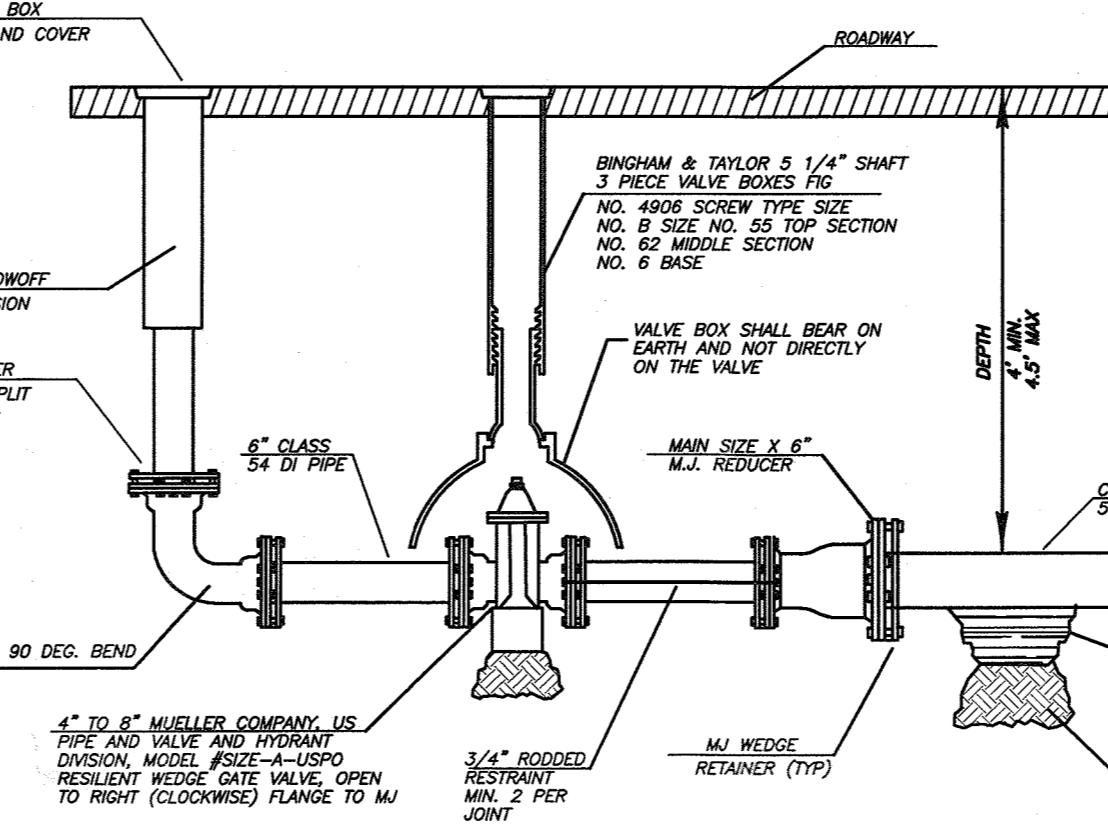
TRENCHING - PROPOSED PRIVATE ROADWAY
N.T.S.



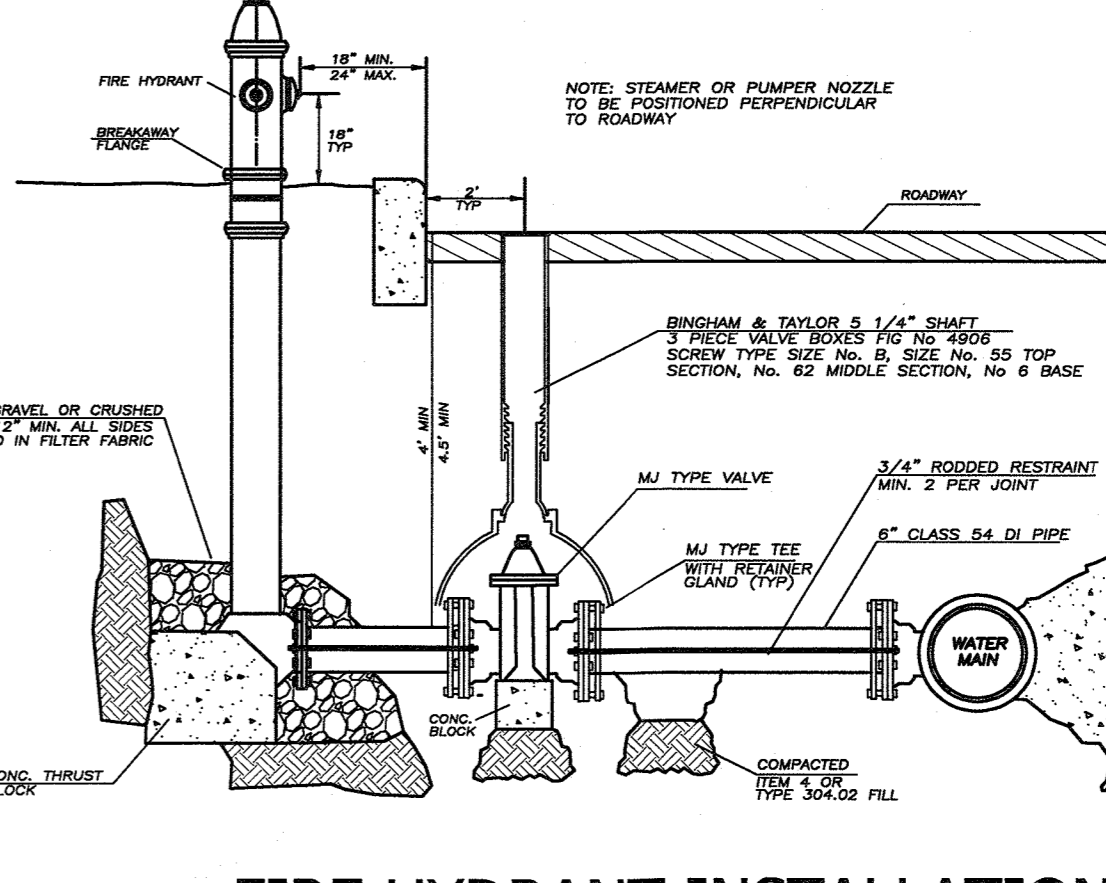
WATERMAIN OFFSET
N.T.S.



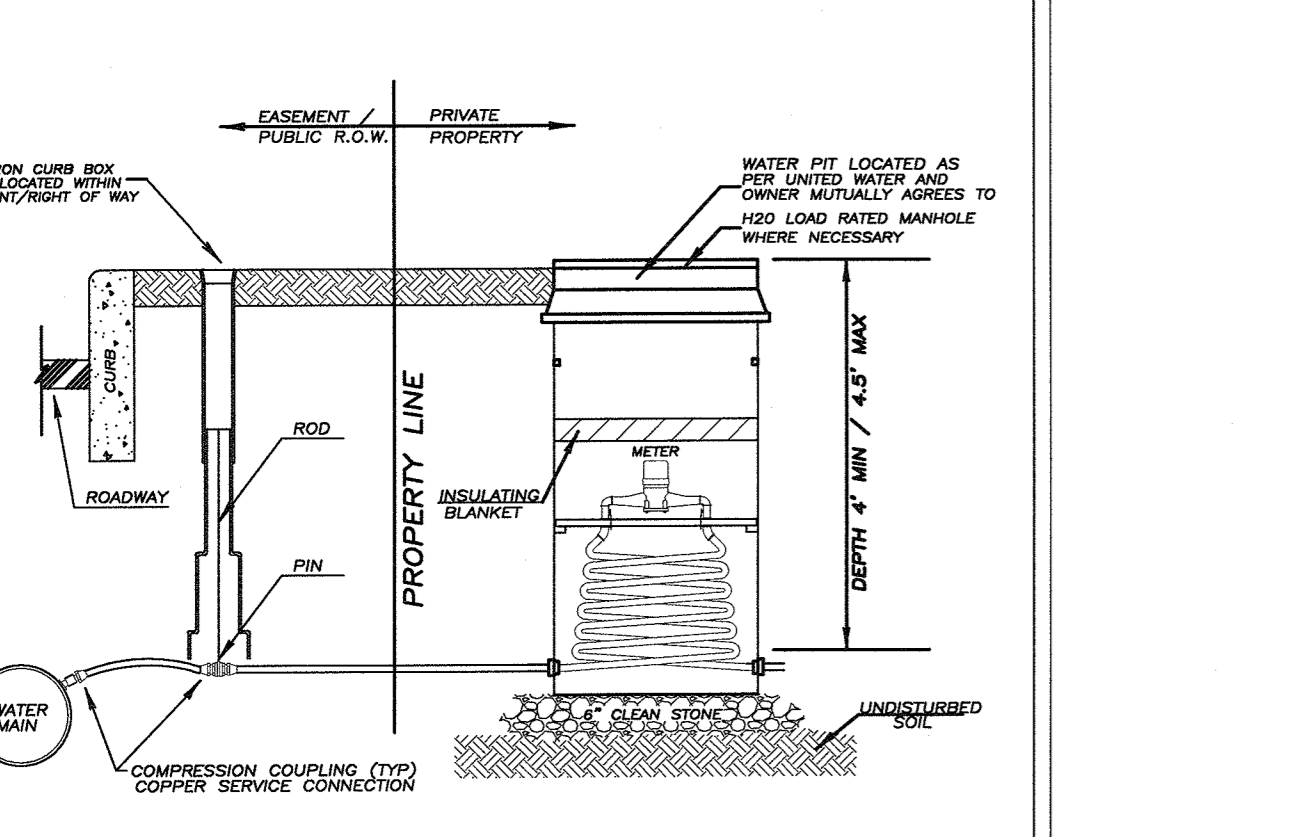
WATER AND SEWER CROSSING
N.T.S.



6\"/>



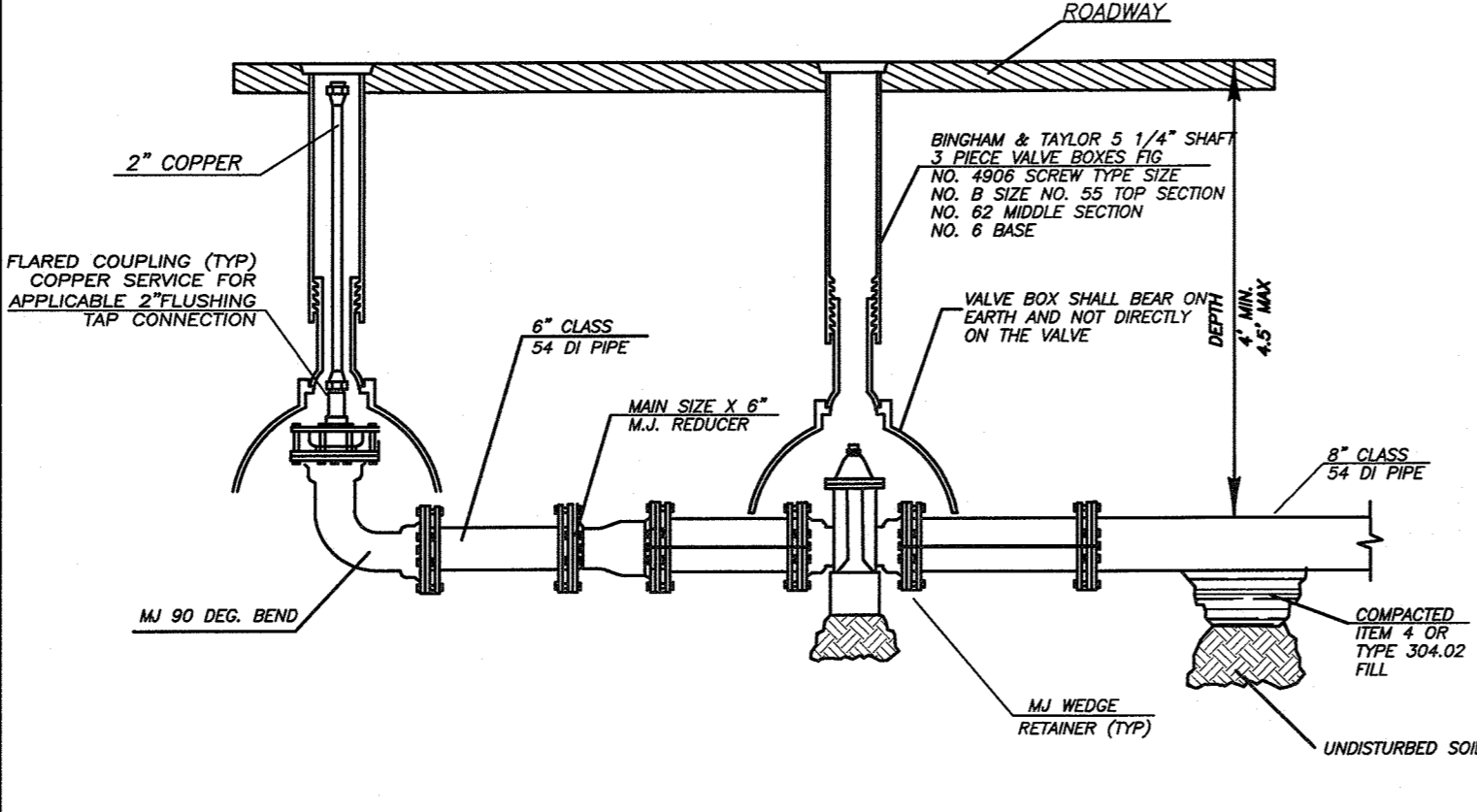
FIRE HYDRANT INSTALLATION DETAIL (NEW MAIN)
N.T.S.



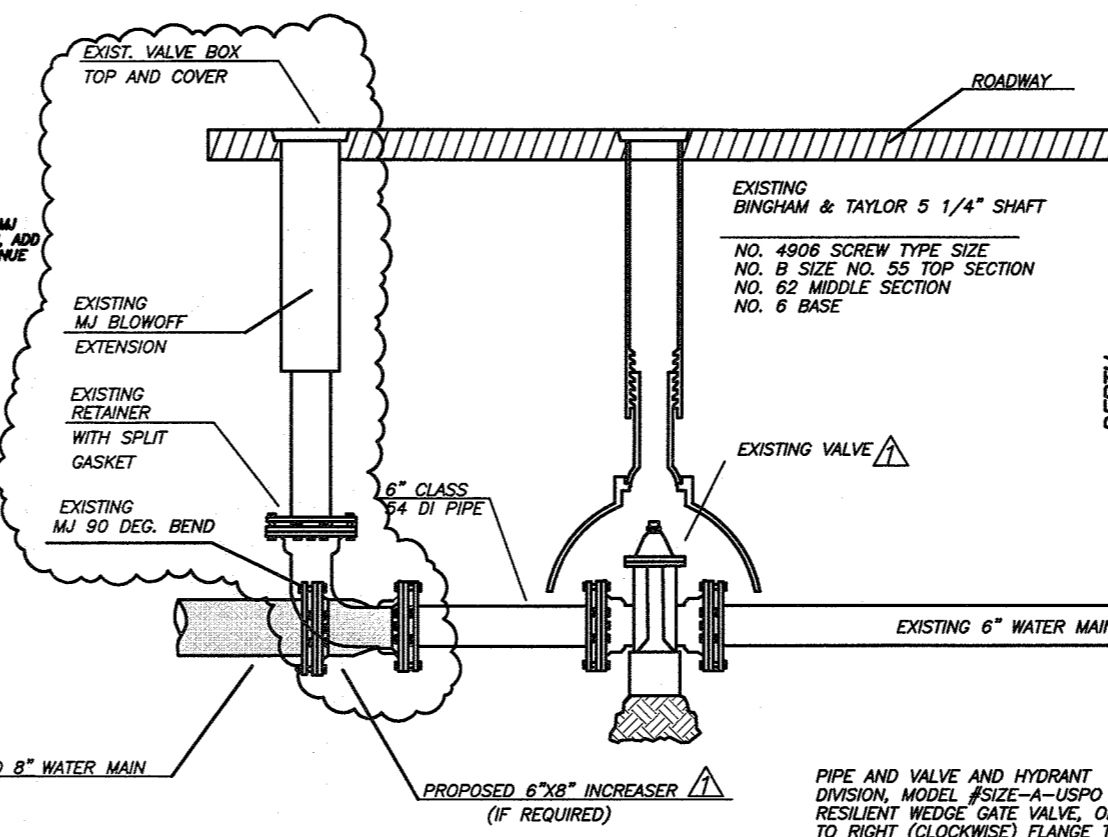
SIZE OF SERVICE	SIZE OF METER	LENGTH OF METER
3/4"	5/8"	7 1/2"
3/4"	3/4"	9"
1"	1"	10 3/4"

SUEZ WATER New York
 360 W. Nyack Road
 West Nyack, NY 10994
 845-623-1500

STANDARD METER INSTALLATION OUTSIDE OF BUILDING 5/8" THROUGH 1"
 SCALE: NTS DATE 01-23-13



2\"/>



CONNECTION TO EXISTING WATER MAIN
N.T.S.

CIVIL DESIGN WORKS LLC
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GLENN MCCREEDY, PE, NYS LIC # 84274

STATE OF NEW YORK
 JAY A. GREENWELL
 LICENSE NO. 049676
 LAND SURVEYOR

JAY A. GREENWELL, PLS
 NYS LIC # 49676

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
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DATE	REVISIONS

FILE 21232 WATER
 SCALE AS SHOWN
 DATE 04/22/21
 JOB NO. 21232