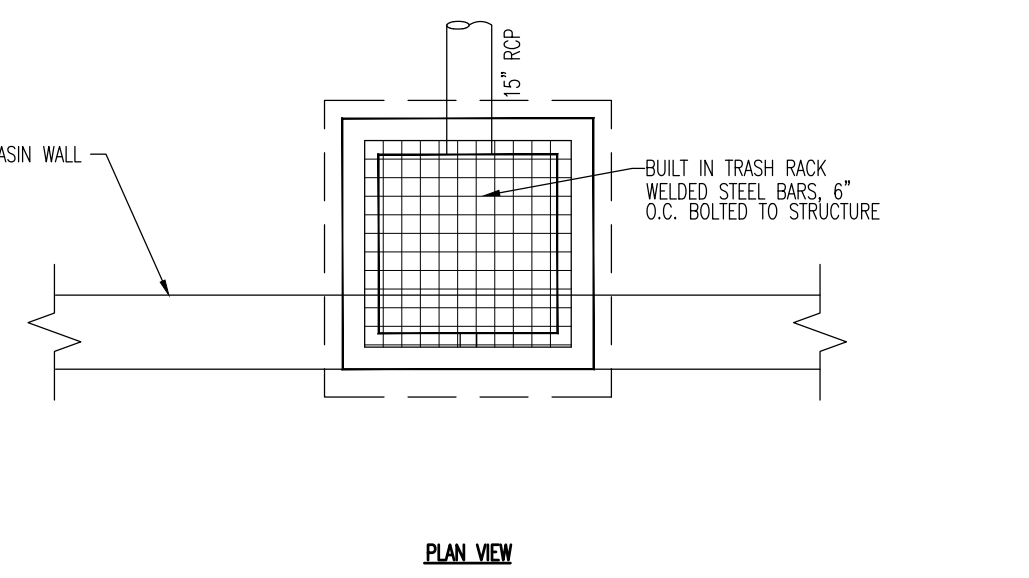
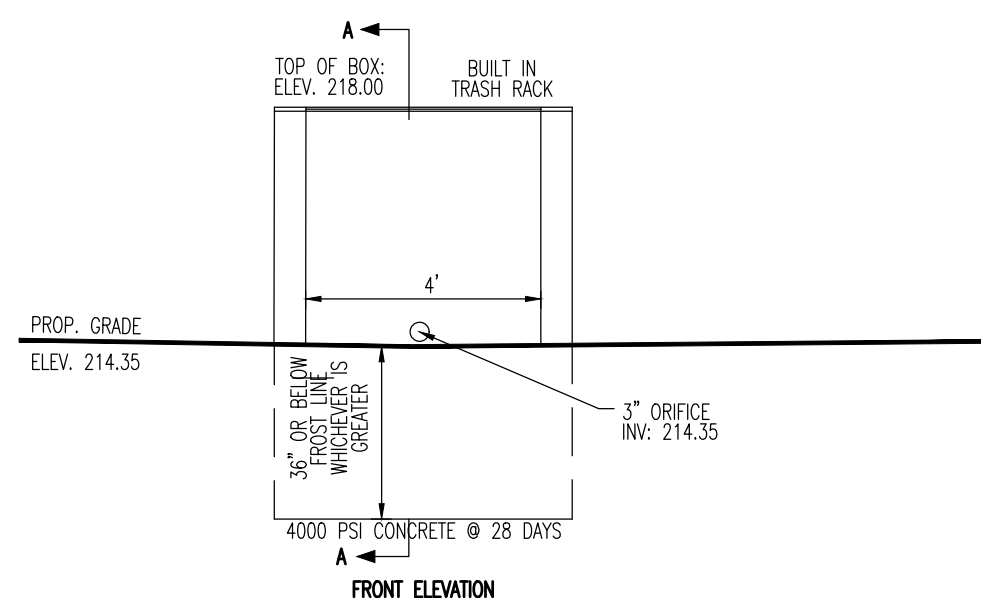


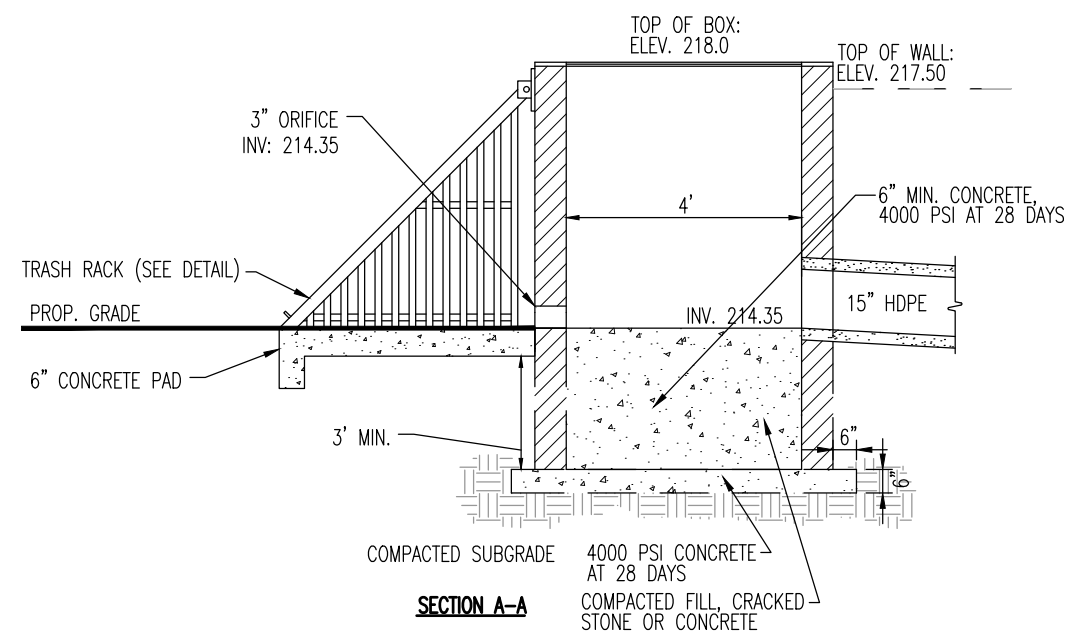
TRASH RACK DETAIL
NOT TO SCALE



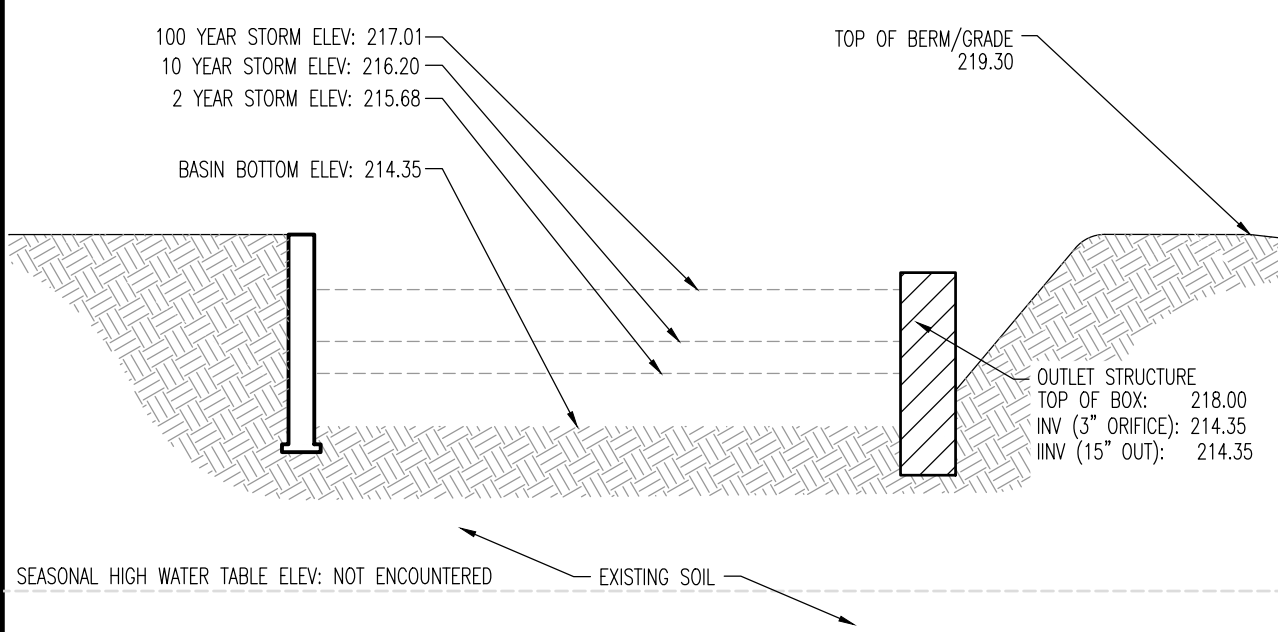
PLAN VIEW



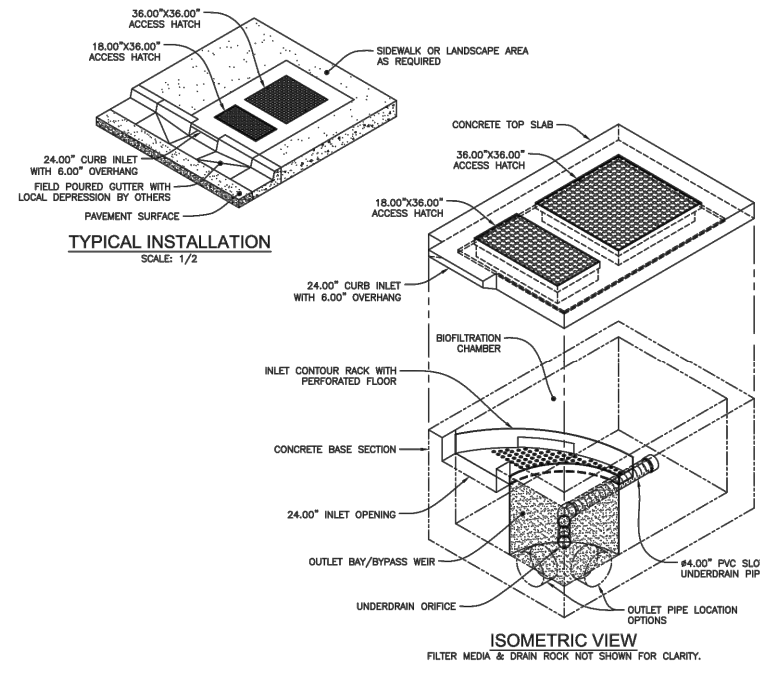
FRONT ELEVATION



**PRE-CAST CONCRETE
OUTLET CONTROL STRUCTURE DETAIL - BASIN B**
NOT TO SCALE

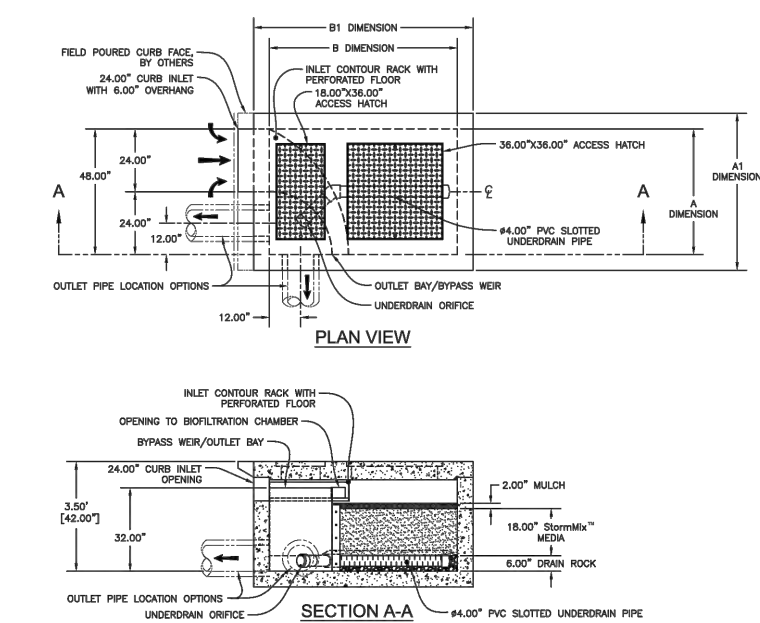


DETENTION BASIN 'B' DETAIL
NOT TO SCALE



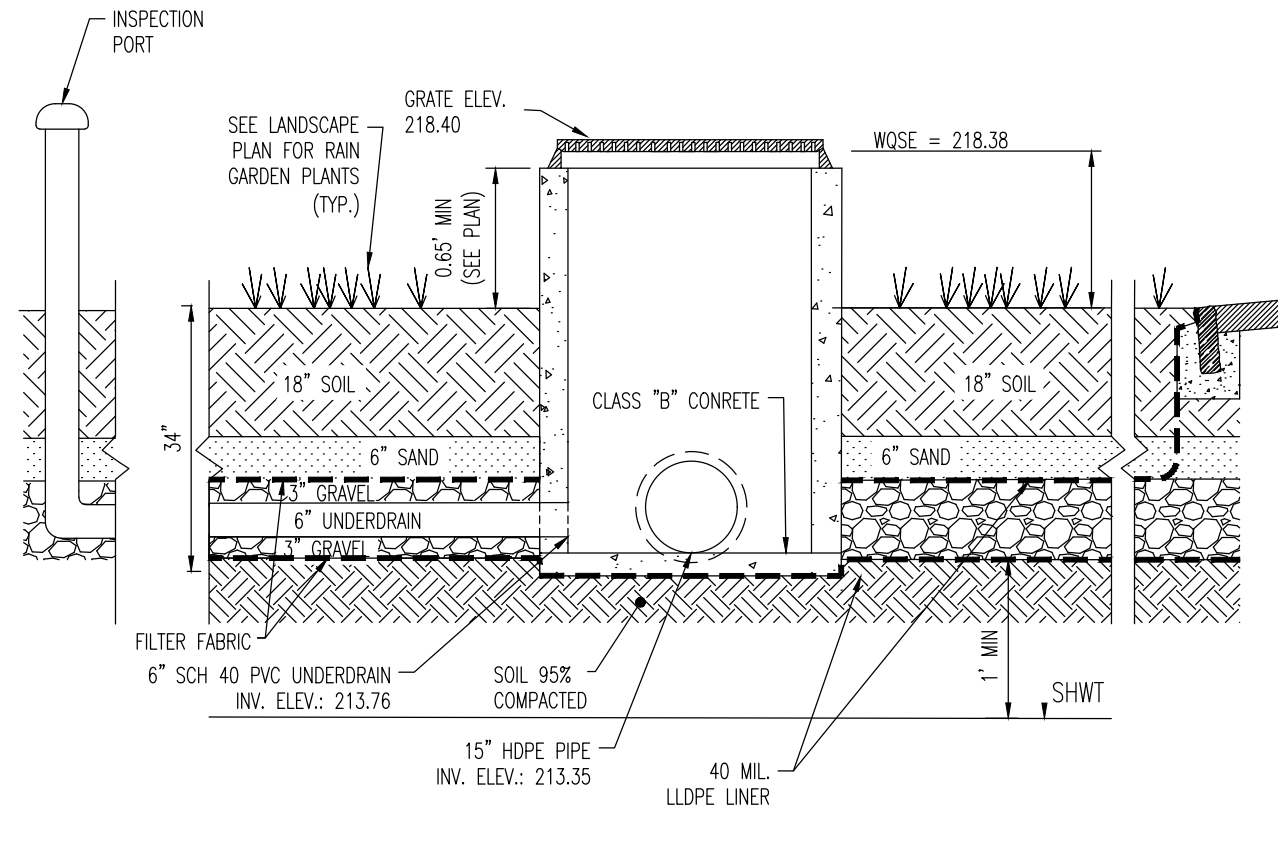
NOTES:
1. RIGHT CONFIGURATION SHOWN, LEFT CONFIGURATION OF INLET RACK AND BYPASS WEIR IS AVAILABLE TO ACCOMMODATE OTHER OUTLET PIPE LOCATIONS.
2. STANDARD UNITS CAN ACCOMMODATE UP TO A 15 INCH DIAMETER RCP OUTLET PIPE.
3. BYPASS WEIR STRUCTURE IS REQUIRED IF FLOW FLOW RATE EXCEEDS 2.0 CFS INTERNAL BYPASS CAPACITY.
4. DAMAGED PLATE ACCESS HATCH STANDARD, SLIP RESISTANT OPTION AVAILABLE.
5. CONTACT QUALICASTE INFRASTRUCTURE FOR ENGINEERING ASSISTANCE AND DETAIL DRAWINGS.
6. CONCRETE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ACI 308.2 & 308.3.

US Patents Pending

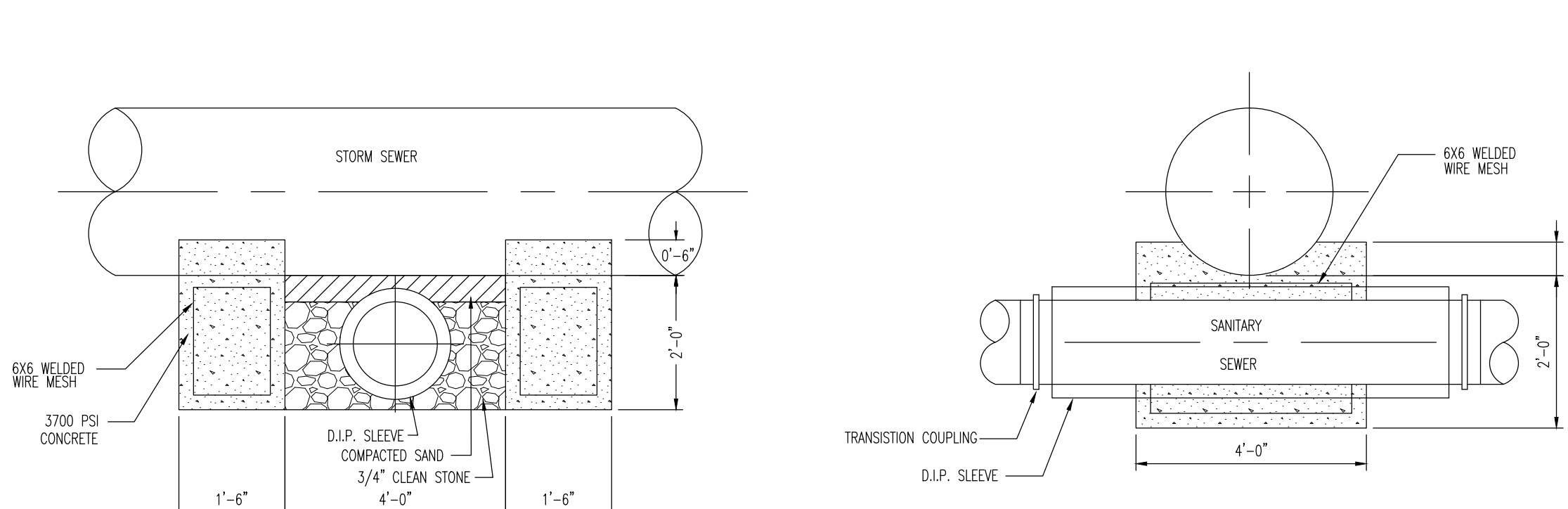


MODEL	VAULT SIZE (SQ FT)	VAULT FOOTPRINT (SQ FT)	TREATMENT CAPACITY (GPD)	15" RCP (SQ FT)	15" RCP (SQ FT)
WQ-1	4	4	100	1.5	1.5
WQ-2	8	8	200	3.0	3.0
WQ-3	12	12	300	4.5	4.5
WQ-4	16	16	400	6.0	6.0
WQ-5	20	20	500	7.5	7.5
WQ-6	24	24	600	9.0	9.0
WQ-7	28	28	700	10.5	10.5
WQ-8	32	32	800	12.0	12.0
WQ-9	36	36	900	13.5	13.5
WQ-10	40	40	1000	15.0	15.0

**WATER QUALITY BIPOD STRUCTURES 212 & 222
DETAIL**
NOT TO SCALE

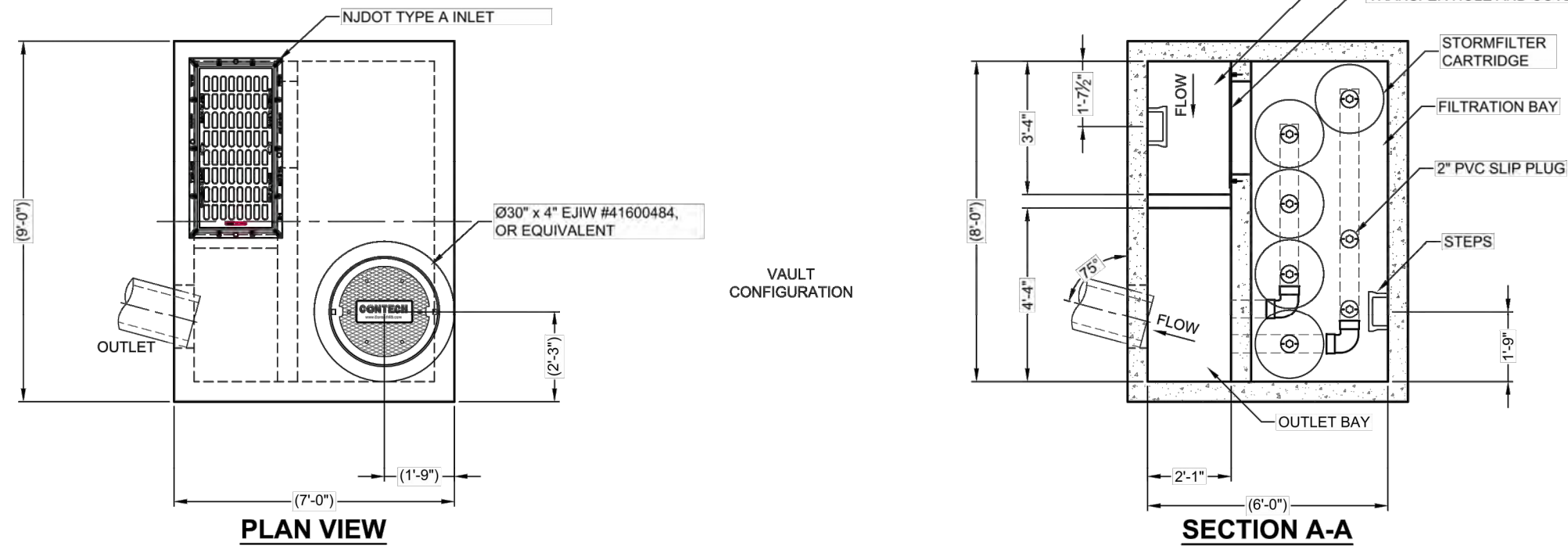


RAIN GARDEN SECTION DETAIL
NOT TO SCALE



NOTES: 1. A FULL SECTION OF STORM DRAINAGE PIPE SHALL BE PLACED ACROSS THE ENTIRE CONCRETE CRADLE.
2. FOR PROTECTION OF SANITARY SEWER, INSTALL D.I.P. SLEEVE (2" DIA. LARGER THAN SANITARY SEWER) AS A CARRIER PIPE 5' BEYOND STORM SEWER IN EACH DIRECTION. REPLACE EXISTING SANITARY SEWER WITH PVC AND TRANSITION COUPLINGS.

CONCRETE CRADLE DETAIL
NOT TO SCALE



PLAN VIEW

SECTION A-A
VAULT STYLE: 50L

MATERIAL LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
5	27" PERLITE CARTRIDGE	CONTECH
8	RESTRICTOR DISK (GLD), 22.5 GPM	CONTECH
3	2" PVC SLIP PLUG	CONTECH
1	FLOW KIT (50L)	CONTECH
1	36" x 14" TRANSFER HOLE COVER	CONTECH
1	JOINT SEALANT	CONTRACTOR
2 PLS	GRADE RINGS/RISERS	CONTRACTOR
1	NJDOT TYPE A INLET	CONTRACTOR
1	Ø30" x 4" EJWV #41600484, OR EQUIVALENT FRAME AND COVER	CONTRACTOR
10	STEPS, P10CTS LANE LADDER, OR EQUIVALENT	CONTECH

PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS. SPECIFIC FLOW RATE SHALL BE 2 GPM/SF (MAXIMUM). SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE 6 GPM/CF OF MEDIA (MAXIMUM).

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
3. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO H20D LOAD RATING, ASSUMING EARTH COVER OF 2'-0" AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING WITH ASTM C-857 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
7. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
8. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

INSTALLATION NOTES:
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE LIFTING CLYDESS PROVIDED.
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
6. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

STRUCTURE WEIGHT:
APPROXIMATE HEAVIEST PICK = 25,000 LBS.

CONTECH
PROPOSAL
DRAWING

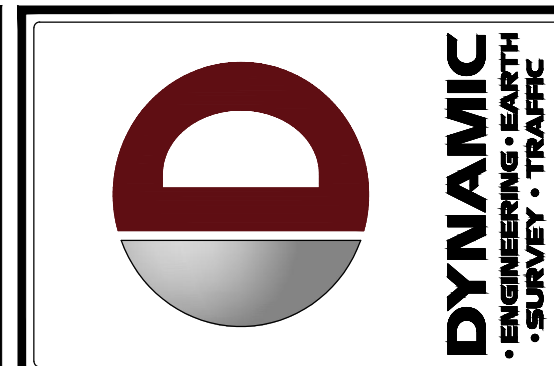
LS/RE 1 of 1

RAIN GARDEN GENERAL NOTES:

- SOIL BED MUST BE A MINIMUM OF 18 INCHES IN DEPTH AND CONSISTS OF THE FOLLOWING MIX, BY WEIGHT: 85 TO 95% SAND, WITH NO MORE THAN 25% OF SAND AS FINE OR VERY FINE SANDS. NO MORE THAN 10% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. CENTRE MIX MUST THEN BE AMENDED WITH 3 TO 7% ORGANICS BY WEIGHT. MINIMUM PERMEABILITY OF SOIL BED 8 INCHES/HR (4 IN/HR DESIGN).
- PRE-MIXED SOIL MUST BE CERTIFIED BY VENDOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY TO MEET THE REQUIREMENTS ON NOTE 1 ABOVE.
- THE PH OF THE SOIL BED MATERIAL MUST RANGE FROM 5.5 TO 6.5.
- MATERIAL MUST BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES. ADDITIONAL MATERIAL MAY BE REQUIRED TO ACCOUNT FOR SETTLING OVER TIME.
- FILTER FABRIC IS REQUIRED ALONG THE SIDES AND THE BOTTOM. ADDITIONAL LOCATIONS MAY BE REQUIRED BASED ON DETAIL.
- SAND LAYER MUST BE 6 INCHES IN DEPTH AND MUST CONSIST OF CLEAN MEDIUM - AGGREGATE CONCRETE SAND (AASHTO M-6/ASTM C-33). MINIMUM PERMEABILITY RATE SHOULD BE TWICE THE DESIGN PERMEABILITY RATE OF SOIL BED.
- GRAVEL LAYER MUST CONSIST OF 0.5 TO 1.5 INCHES CLEAN, BROKEN STONE OR PEA GRAVEL (AASHTO M-43) PERMEABILITY RATE SHOULD BE TWICE THE DESIGN PERMEABILITY RATE OF SAND LAYER.
- INSPECTION PORTS MUST BE LOCATED AT UPSTREAM ENDS OF THE PERFORATED UNDERDRAIN.

LDPE RAIN GARDEN LINER GENERAL NOTES:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE RAIN GARDEN LINER, FOR ENGINEER'S APPROVAL, SHOWING THE PROPOSED PANEL LAYOUT INCLUDING SEAMS AND DETAILS. SEAMS SHOULD GENERALLY FOLLOW THE DIRECTION OF THE SLOPE. BUT SEAMS OR ROLL-END SEAMS SHOULD NOT OCCUR ON A SLOPE UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. BUT SEAMS ON A SLOPE, IF ALLOWED, SHOULD BE STAGGERED.
- THE GEOMEMBRANE SHALL BE INSTALLED TO THE LIMITS SHOWN ON THE PROJECT DRAWINGS AND AS SHOWN ON APPROVED PANEL LAYOUT DRAWINGS. TEXTURED LINER SHALL BE INSTALLED ON ALL SLOPES EXCEEDING 6 HORIZONTAL TO 1 VERTICAL. SMOOTH LINER SHALL BE INSTALLED IN ALL OTHER AREAS.
- GEOMEMBRANE SHALL BE INSTALLED ON AN APPROVED SUBGRADE CONSISTING OF SMOOTH COMPACT SOILS FREE FROM FOREIGN DEBRIS AND SHARP ROCK. A MINIMUM 9-INCH THICK SOIL CUSHION LAYER SHALL BE PROVIDED BETWEEN ALL DECOMPOSED ROCK AND ROCK.
- NO VEHICULAR TRAFFIC SHALL TRAVEL ON THE GEOMEMBRANE OTHER THAN AN APPROVED LOW GROUND PRESSURE VEHICLE OR EQUIVALENT.
- SAND BAGS OR EQUIVALENT BALLAST SHALL BE USED AS NECESSARY TO TEMPORARILY HOLD THE GEOMEMBRANE MATERIAL IN POSITION UNDER THE FORESEEAHLE AND REASONABLY EXPECTED WIND CONDITIONS. SAND BAG MATERIAL SHALL BE SUFFICIENTLY CLOSE-KNIT TO PREVENT SOIL FINES FROM WORKING THROUGH THE BAGS AND DISCHARGING ON THE GEOMEMBRANE.
- GEOMEMBRANE PLACEMENT SHALL NOT BE DONE IF MOISTURE PREVENTS PROPER SUBGRADE PREPARATION, PANEL PLACEMENT, OR PANEL SEAMING. MOISTURE LIMITATIONS SHOULD BE DEFINED IN THE PRECONSTRUCTION MEETING.
- DAMAGED PANELS OR PORTIONS OF THE DAMAGED PANELS WHICH HAVE BEEN REJECTED SHALL BE MARKED AND THEIR REMOVAL FROM THE WORK AREA RECORDED.
- THE GEOMEMBRANE SHALL NOT BE ALLOWED TO "BRIDGE OVER" VOIDS OR LOW AREAS IN THE SUBGRADE. THE GEOMEMBRANE SHALL REST IN INTIMATE CONTACT WITH THE SUBGRADE.
- NO GEOMEMBRANE MATERIAL SHALL BE SEAMED WHEN LINER TEMPERATURES ARE LESS THAN 32 DEGREES F.
- NO GEOMEMBRANE MATERIAL SHALL BE SEAMED WHEN THE SHEET TEMPERATURE IS ABOVE 170 DEGREES F, AS MEASURED BY AN INFRARED THERMOMETER OR SURFACE THERMOCOUPLE.
- SEAMING SHALL PRIMARILY BE PERFORMED USING AUTOMATIC FUSION WELDING EQUIPMENT AND TECHNIQUES. EXTRUSION WELDING SHALL BE USED WHERE FUSION WELDING IS NOT POSSIBLE SUCH AS AT PIPE PENETRATIONS, PATCHES, REPAIRS AND SHORT (LESS THAN A ROLL WIDTH) RUNS OF SEAMS.
- SEAM ALL PENETRATIONS THROUGH LINER. PENETRATIONS SHALL BE CONSTRUCTED FROM THE BASE GEOMEMBRANE MATERIAL, FLAT STOCK OR PREFABRICATED BOOTS. THE PREFABRICATED OR FIELD ASSEMBLY SHALL BE FIELD WELDED TO THE PRIMARY GEOMEMBRANE AS TO PREVENT LEAKAGE.
- THE GEOMEMBRANE SHALL CONSIST OF NEW, FIRST QUALITY PRODUCTS DESIGNED AND MANUFACTURED SPECIFICALLY FOR THE PURPOSE OF THIS WORK WHICH SHALL HAVE BEEN SATISFACTORILY DEMONSTRATED BY PRIOR TESTING SUITABLE AND DURABLE FOR SUCH PURPOSES. THE GEOMEMBRANE ROLLS SHALL BE SEAMLESS, 40-MIL. LINEAR LOW-DENSITY POLYETHYLENE (LLDPE - FORMULATED SHEET DENSITY ≤ 0.939 G/CC) CONTAINING NO PLASTICIZERS, FILLERS OR EXTENDERS AND SHALL BE FREE OF HOLES, BLISTERS OR CONTAMINANTS, AND LEAK FREE VERIFIED BY 100% IN LINE SPARK OR EQUIVALENT TESTING. THE GEOMEMBRANE SHALL BE SUPPLIED AS A CONTINUOUS SHEET WITH NO FACTORY SEAMS IN ROLLS. THE GEOMEMBRANE WILL MEET THE PROPERTY REQUIREMENTS AS SHOWN IN GRI GM17, TABLES 1(A) AND 2(A).
- ALL TEXTURED LINERS SHALL HAVE A MINIMUM INTERFACE FRICTION ANGLE OF 27 DEGREES WITH THE SUBGRADE AND FILL SOILS.



NO.	DATE	REVISION DESCRIPTION	BY
1	02/05/21	REVISED PER TOWNSHIP ENGINEER COMMENTS	LS/RE

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PROJECT: ELITE PROPERTIES PROPOSED RESIDENTIAL DEVELOPMENT
BLOCK 10801, LOT 3
62A VALLEY ROAD (CR. 512)
TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

CONTECH ENGINEERED SOLUTIONS LLC
www.conteches.com
1100 N. 10TH ST., SUITE 200
LITTLE ROCK, AR 72114
Stormfilter

DATE: 7/17/20
DESIGNED: VAS
DRAWN: VAS
CHECKED: APPROVED:
PROJECT NUMBER: 653703
SHEET: 1 of 1

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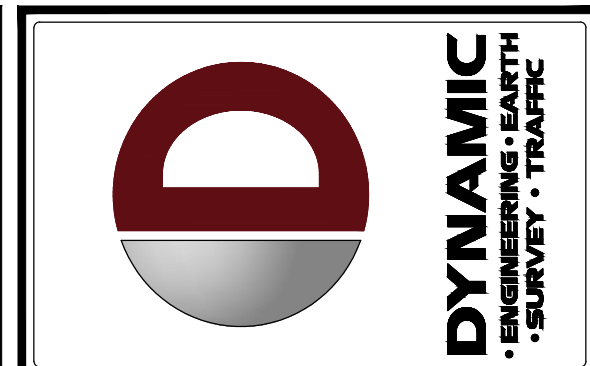
JOSEPH G. JAWORSKI
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 36618

BRETT W. SKAPINETZ
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 41985

TITLE: **CONSTRUCTION DETAILS**

SCALE: (H) AS SHOWN DATE: 08/07/2020
PROJECT No: 0555-99-010

SHEET No: **17** Rev. #: 1
OF 21 1



NO.	DATE	REVISIONS	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS

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PROPOSED RESIDENTIAL DEVELOPMENT
BLOCK 10801, LOT 3
62A VALLEY ROAD (C.R. 512)
TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

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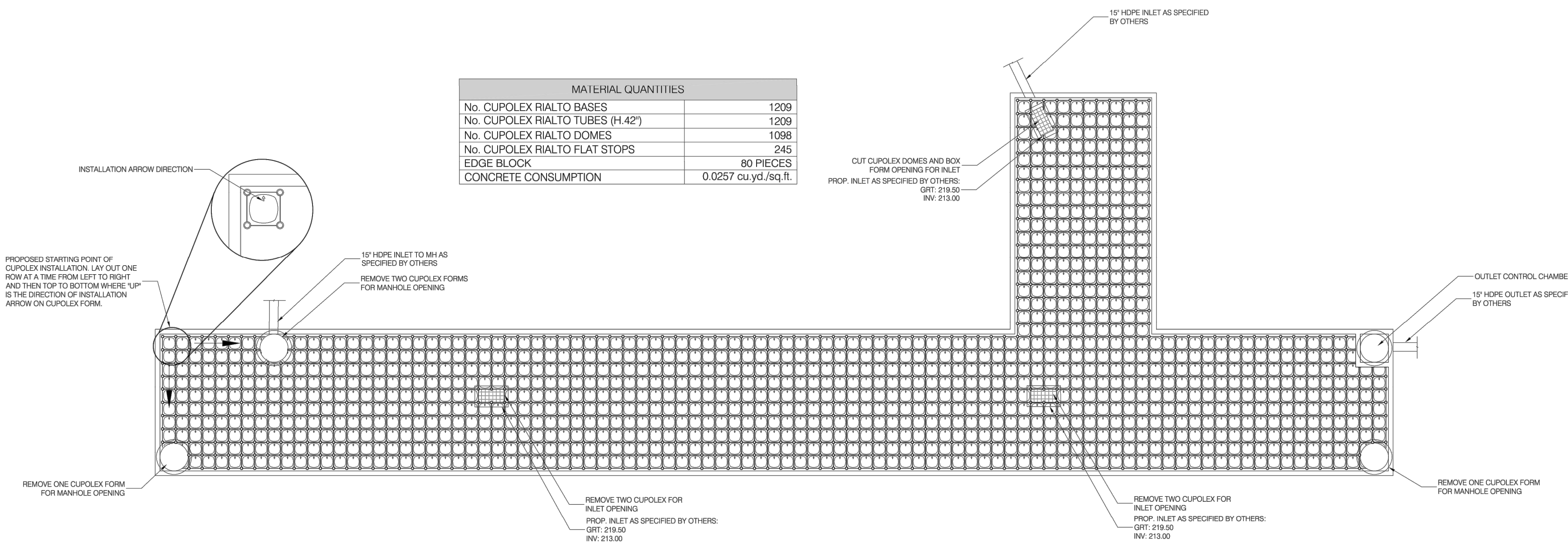
BRETT W. SKAPINETZ
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TITLE: CONSTRUCTION DETAILS

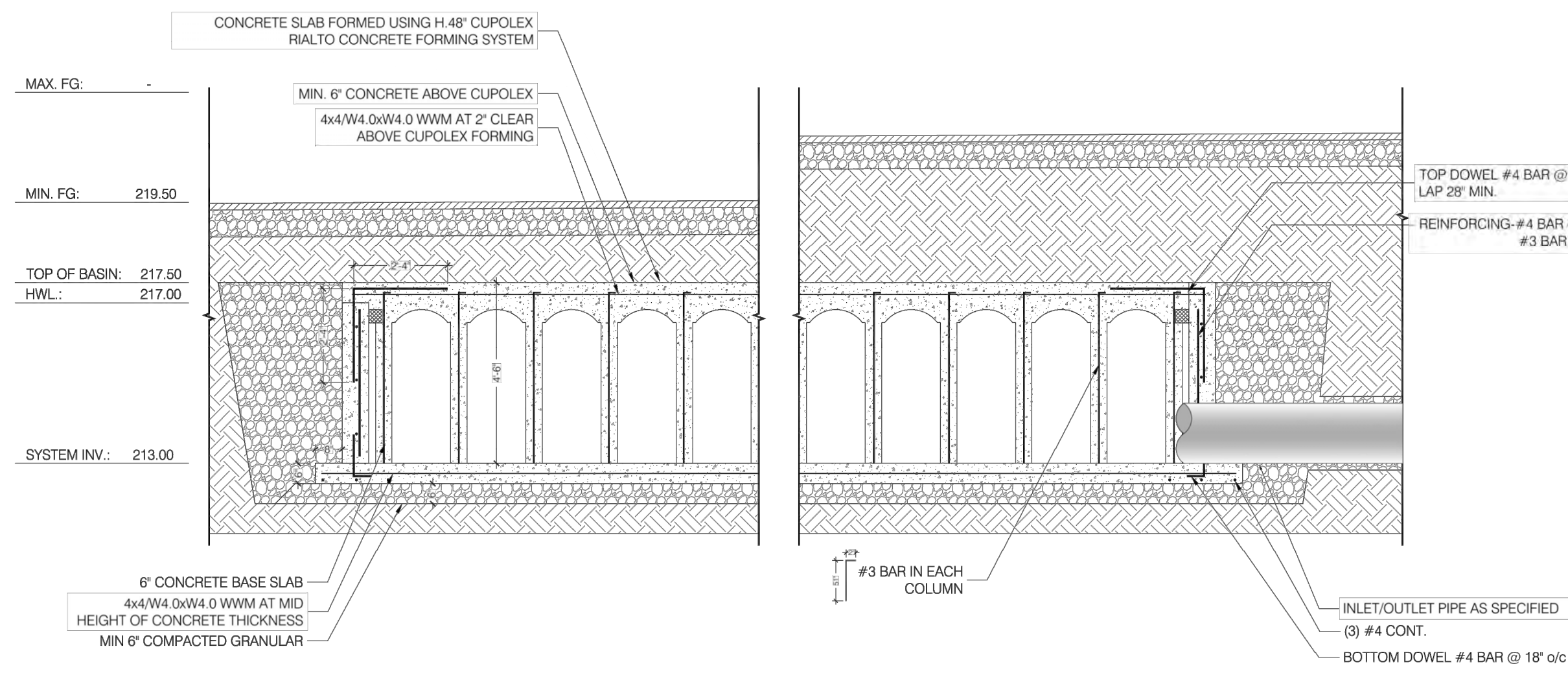
SCALE: (H) AS SHOWN DATE: 08/07/2020
PROJECT No: 0555-99-010

SHEET No: 18 OF 21 Rev. #: 1

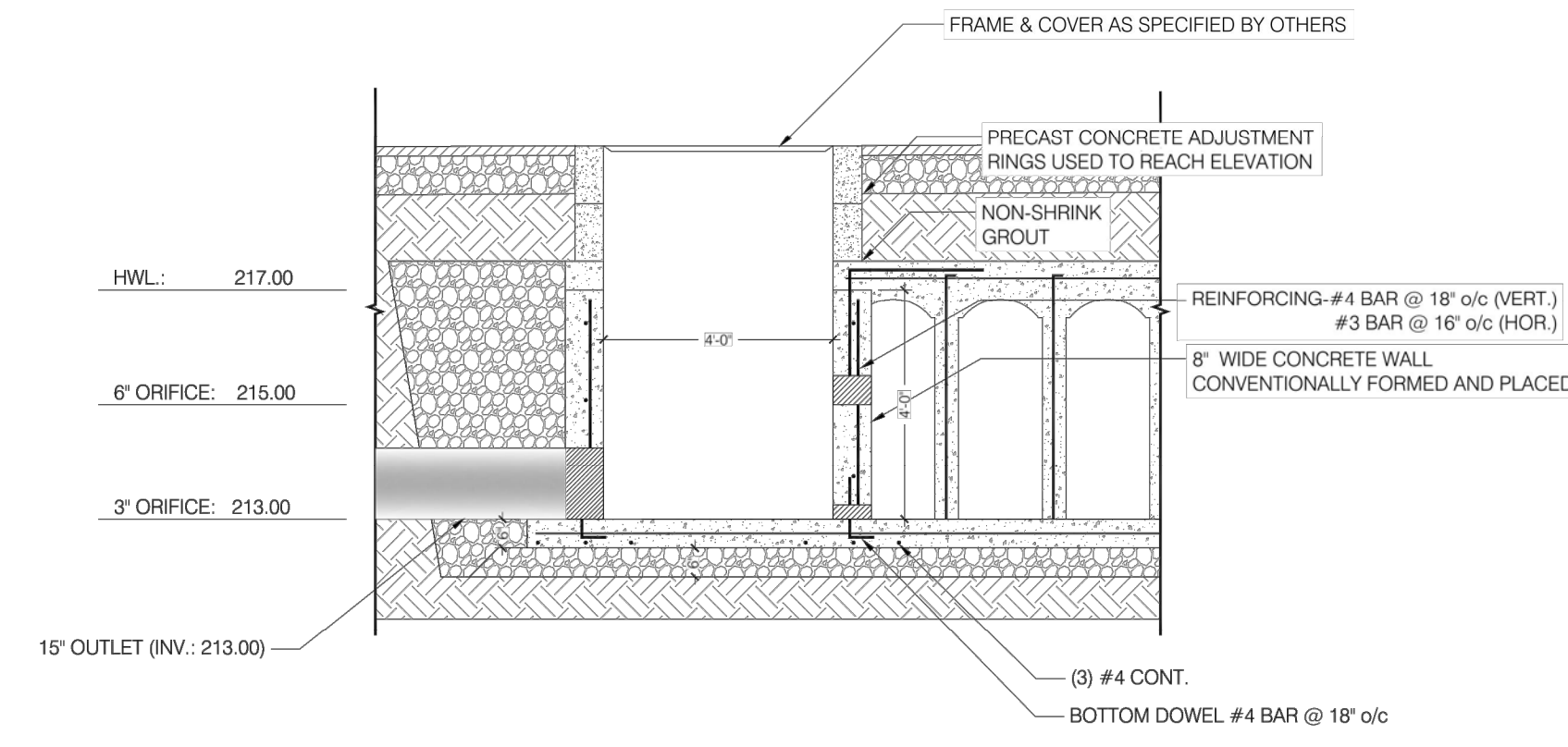
MATERIAL QUANTITIES	
No. CUPOLEX RIAL TO BASES	1209
No. CUPOLEX RIAL TO TUBES (H.42")	1209
No. CUPOLEX RIAL TO DOMES	1098
No. CUPOLEX RIAL TO FLAT STOPS	245
EDGE BLOCK	80 PIECES
CONCRETE CONSUMPTION	0.0257 cu.yd./sq.ft.



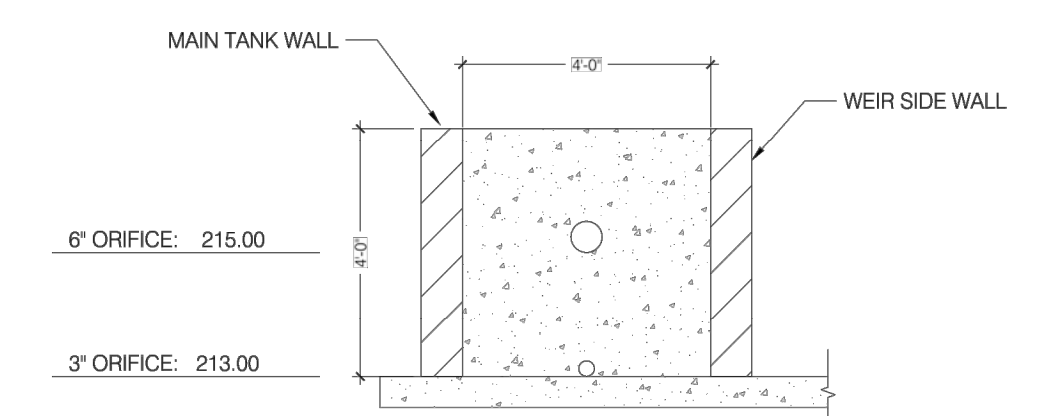
2 CONCRETE TOPPING PLAN



1 CONCRETE BASIN SECTION



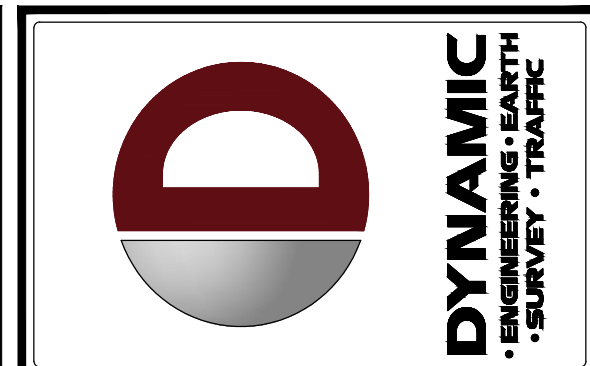
2 OUTLET CHAMBER SECTION



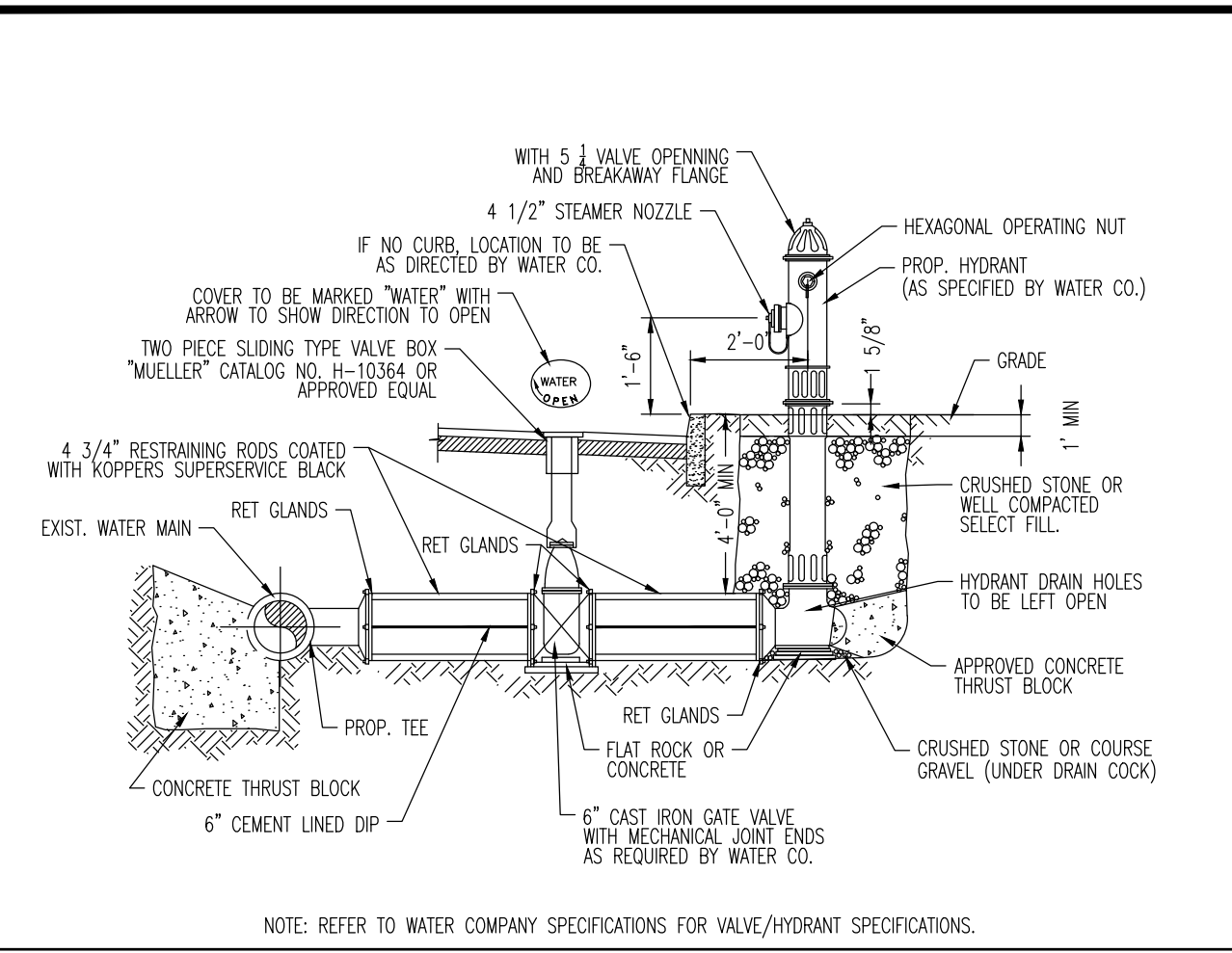
3 OUTLET CONTROL DETAIL

CUPOLEX STORMWATER BASIN 'A' DETAILS
NOT TO SCALE

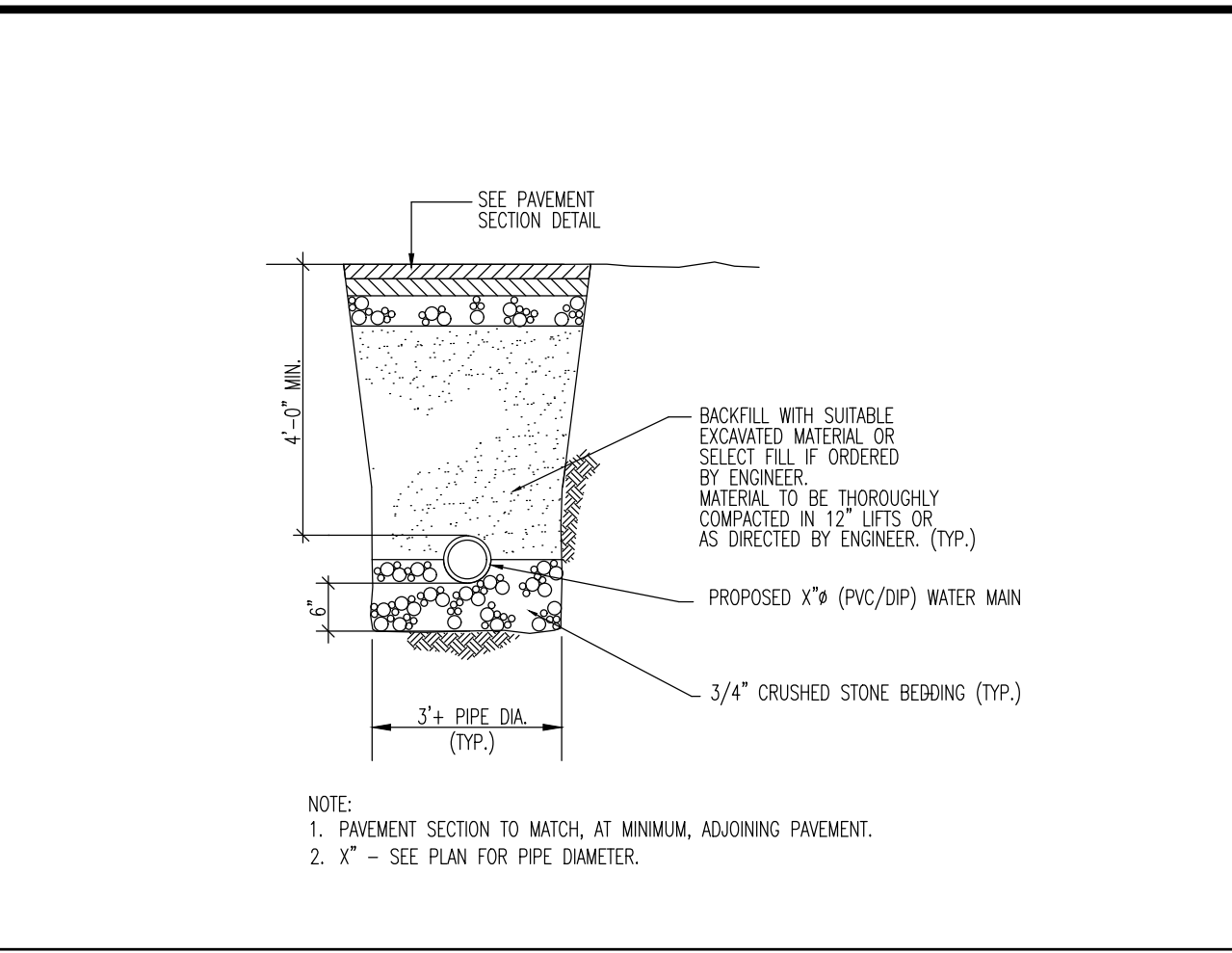
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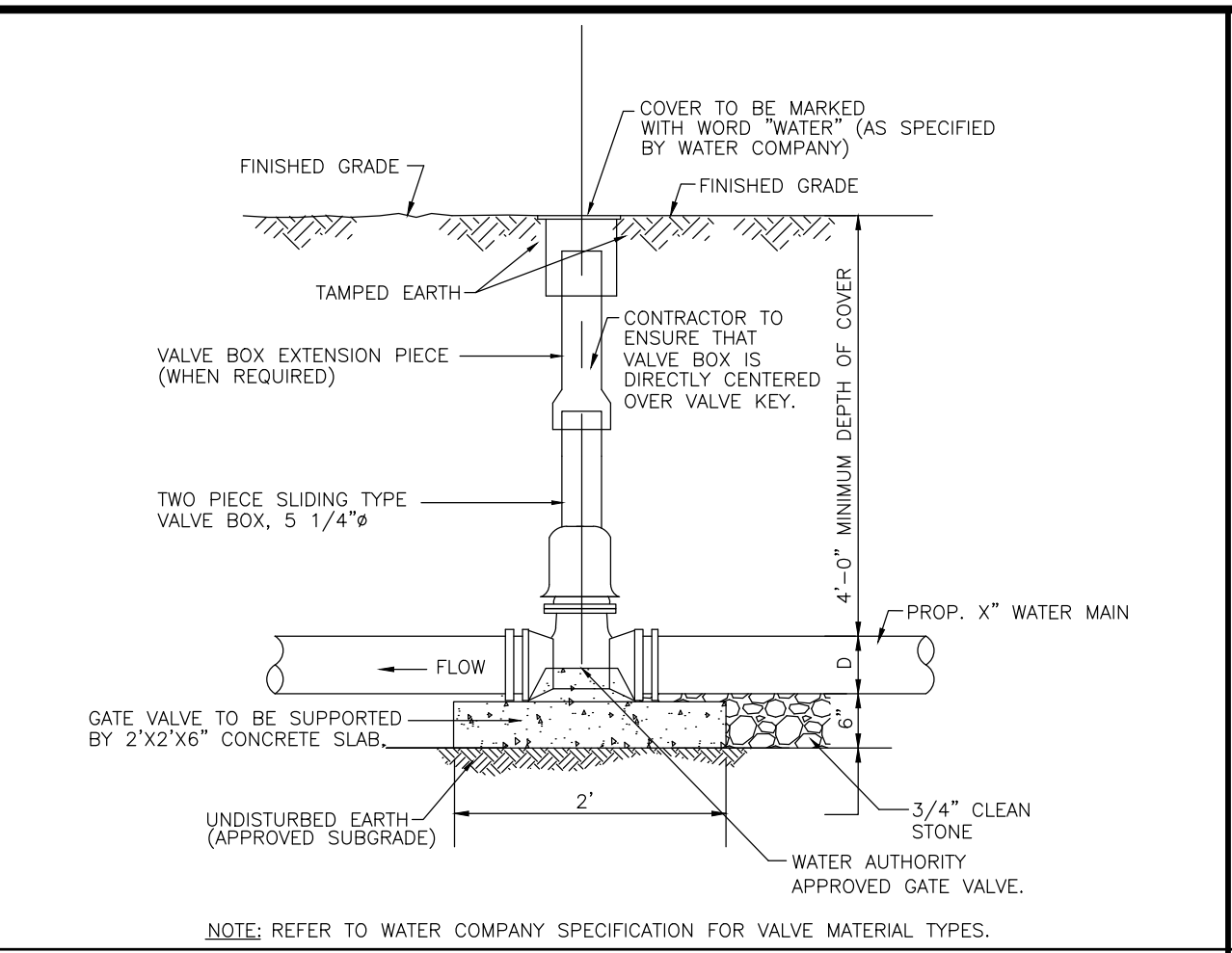
NO.	REV.	DATE	COMMENTS
1	02/05/21		REVISED PER TOWNSHIP ENGINEER COMMENTS



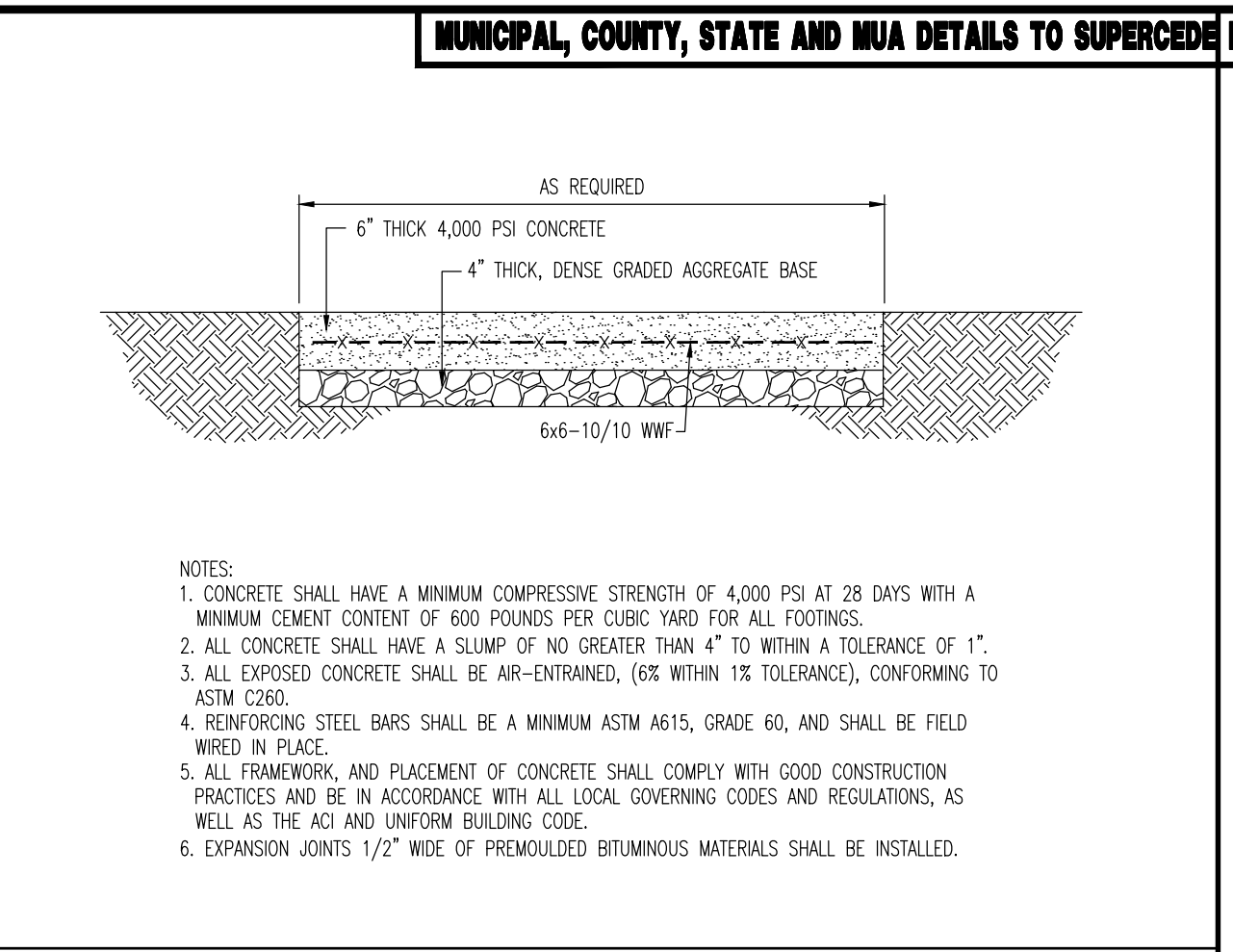
TYPICAL HYDRANT & VALVE INSTALLATION
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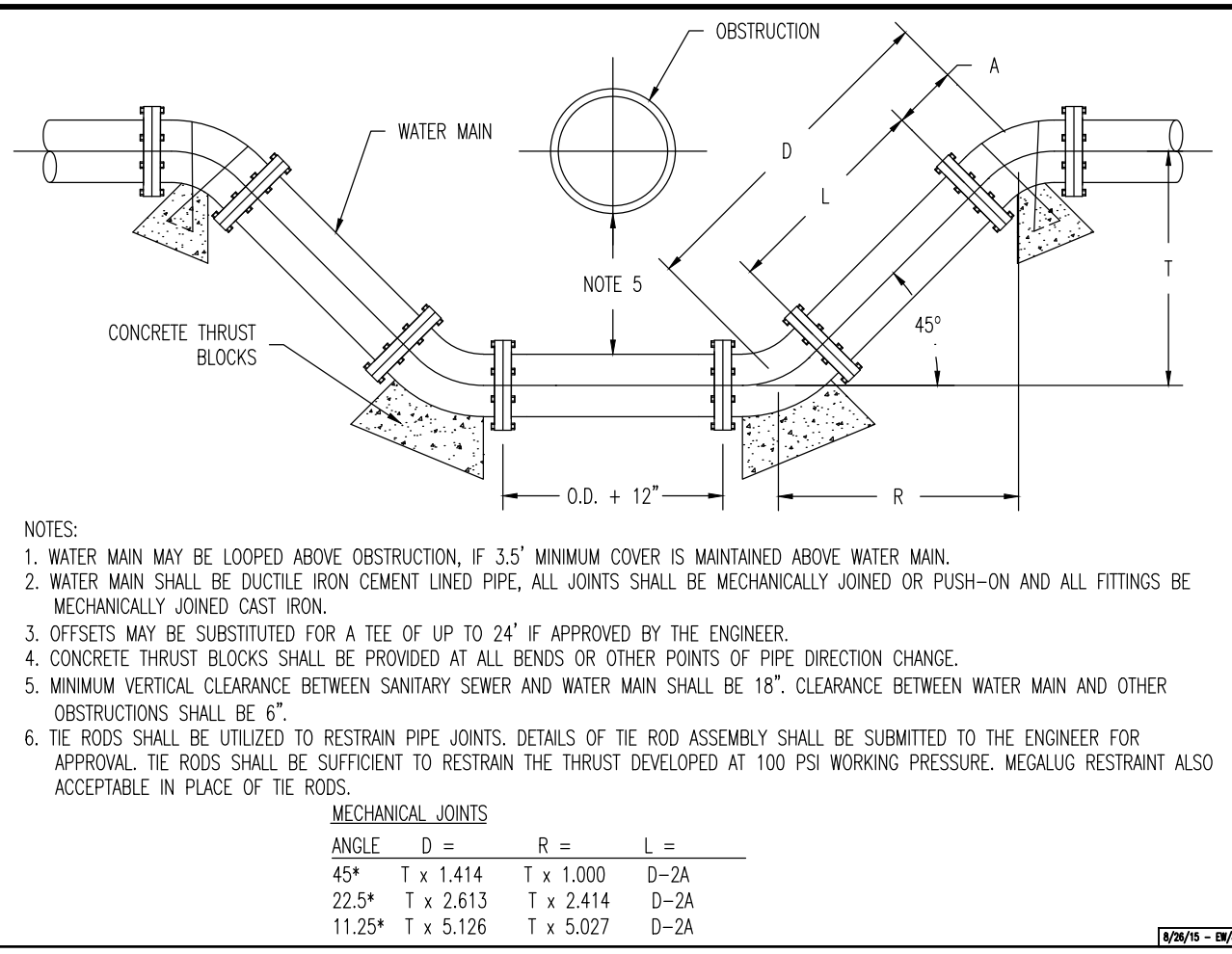
WATER SERVICE TRENCH DETAIL
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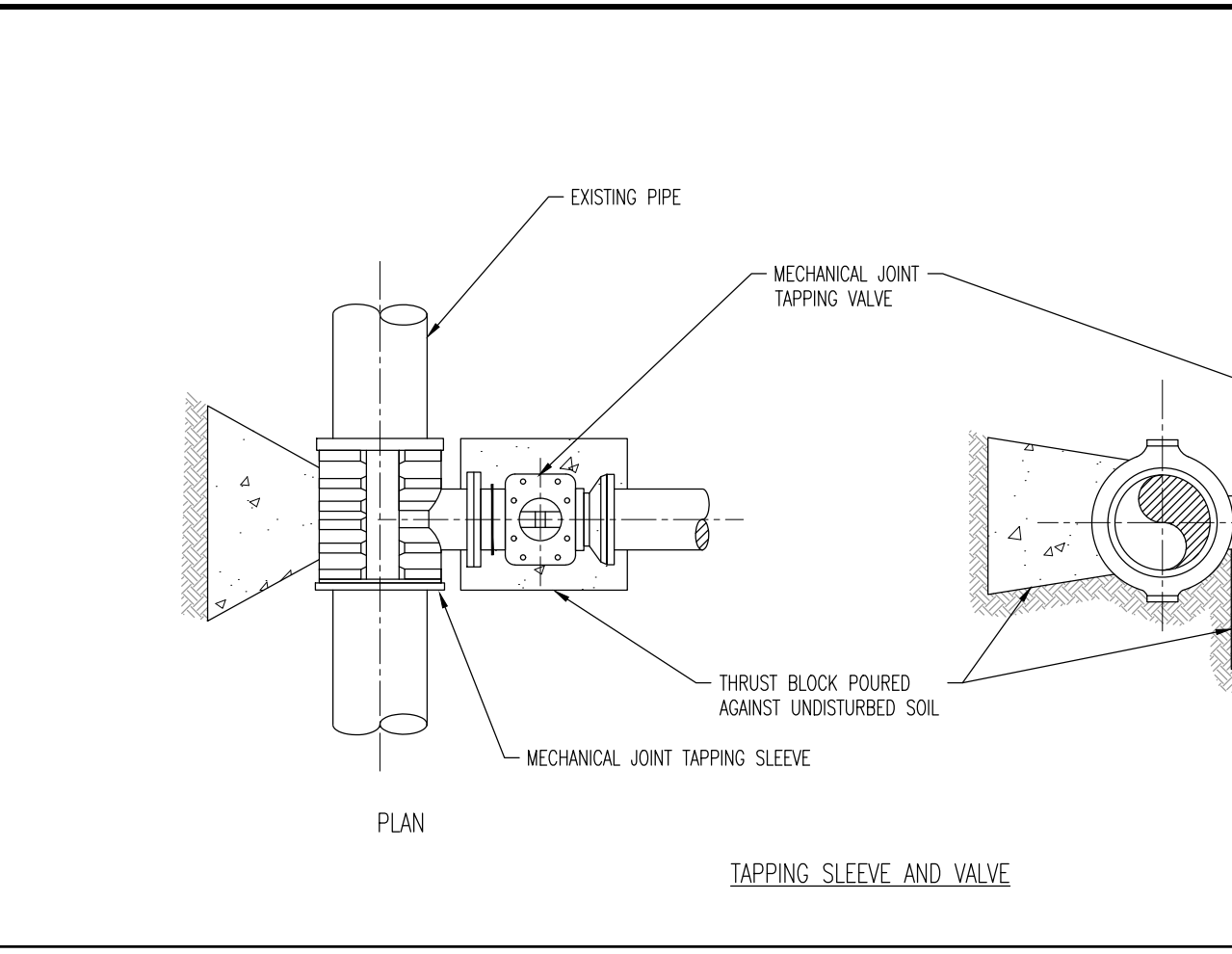
GATE VALVE AND BOX DETAIL
NOT TO SCALE



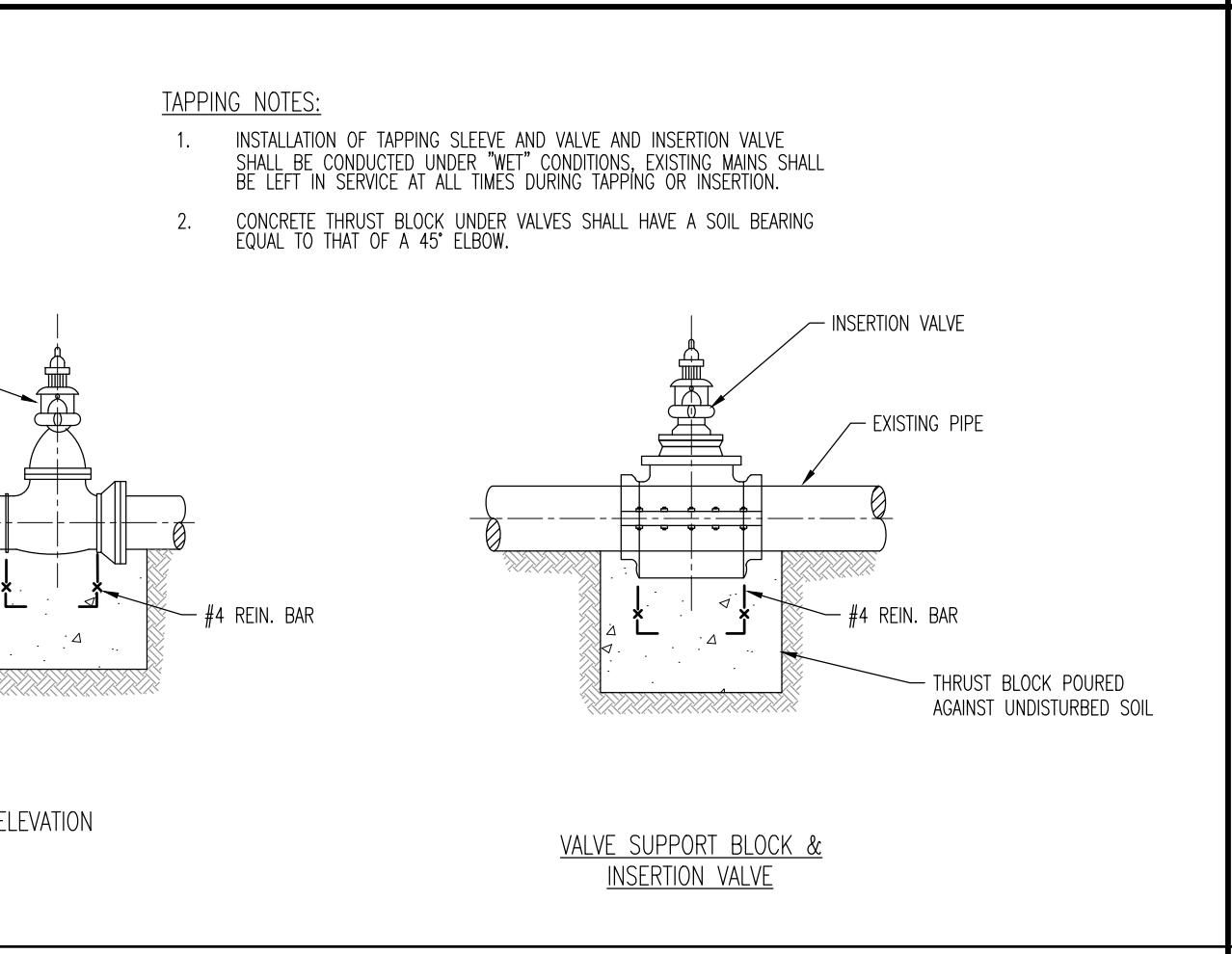
CONCRETE PAD DETAIL
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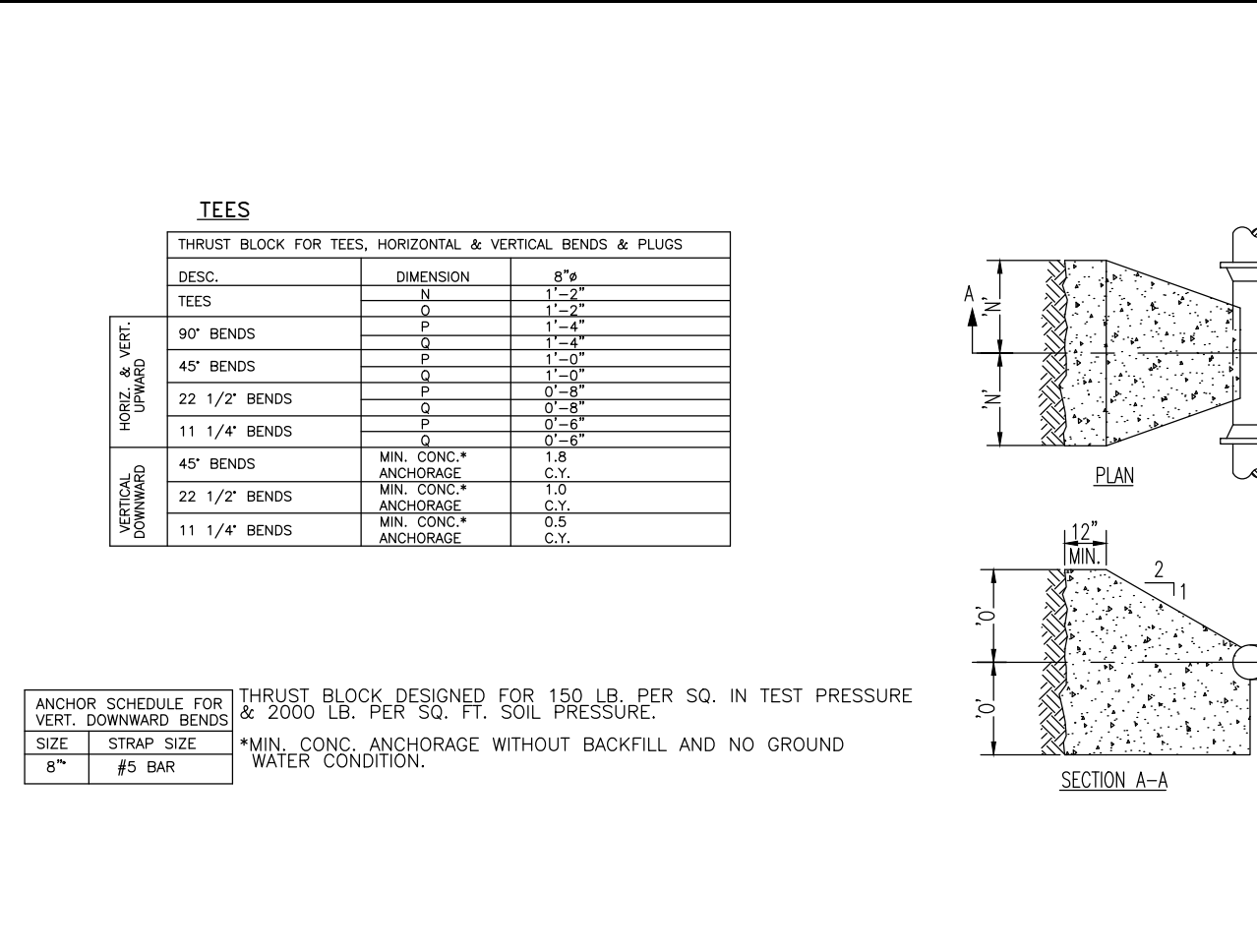
WATER MAIN - UTILITY CROSSING DETAIL
NOT TO SCALE



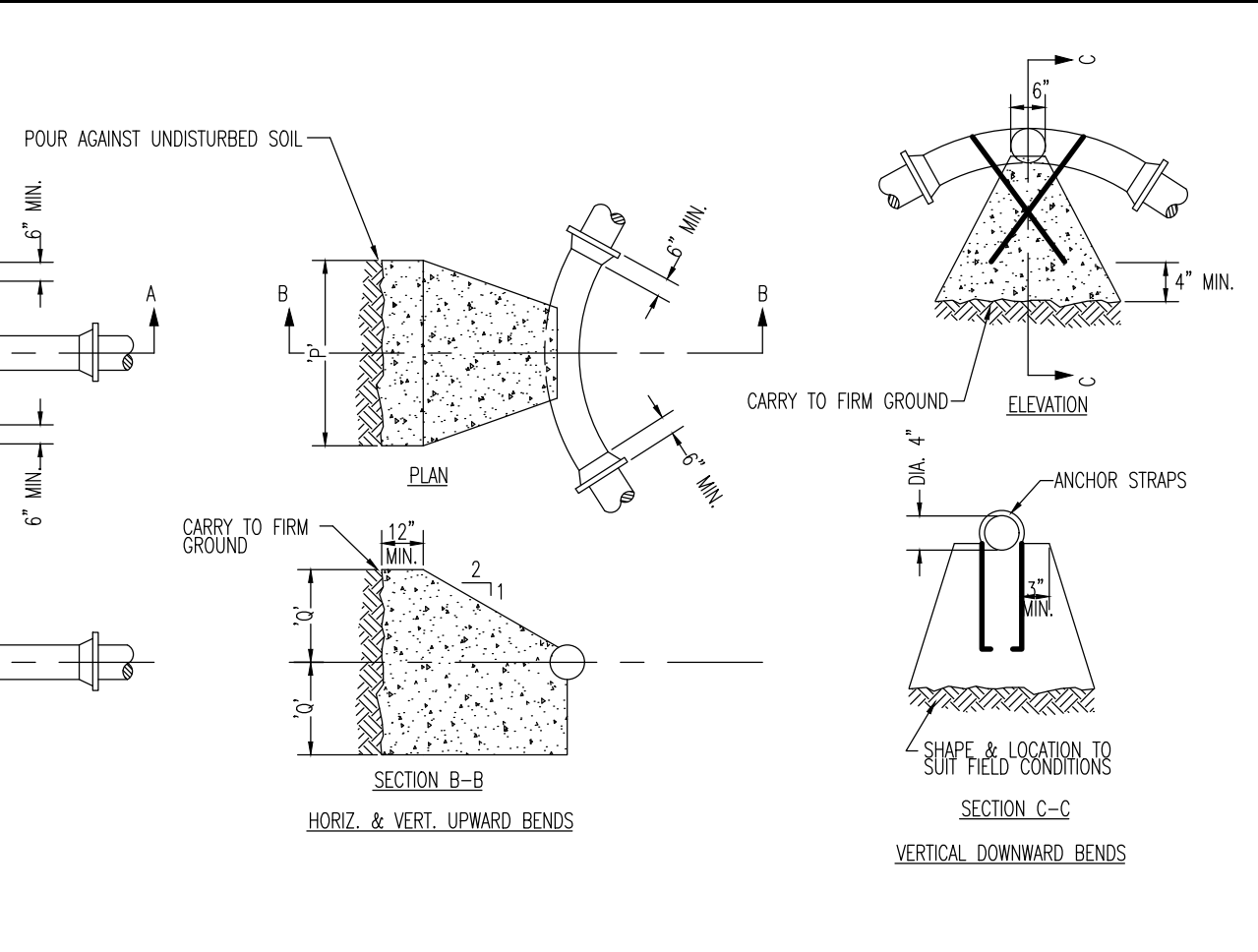
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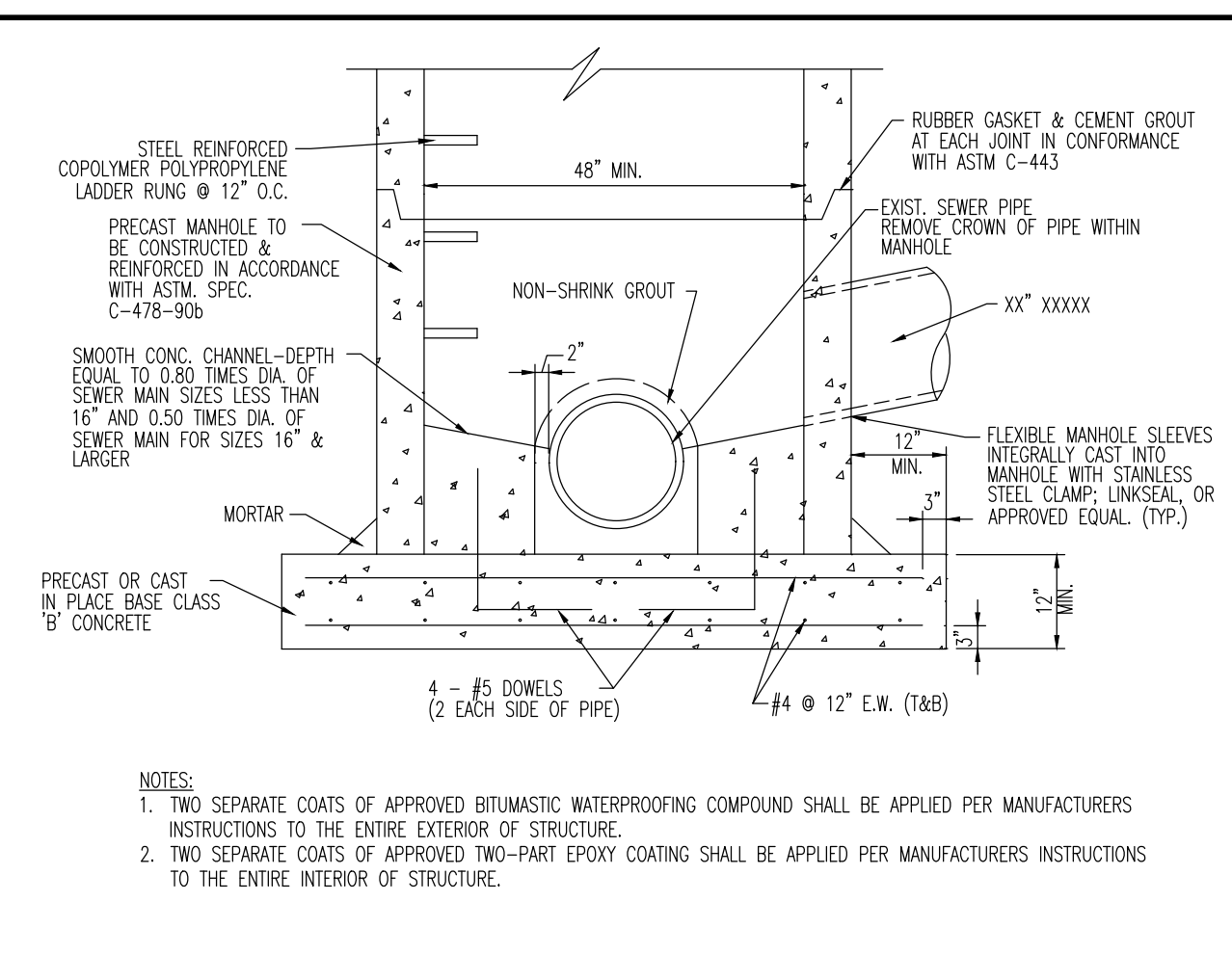
UTILITY SERVICE TRENCH DETAIL
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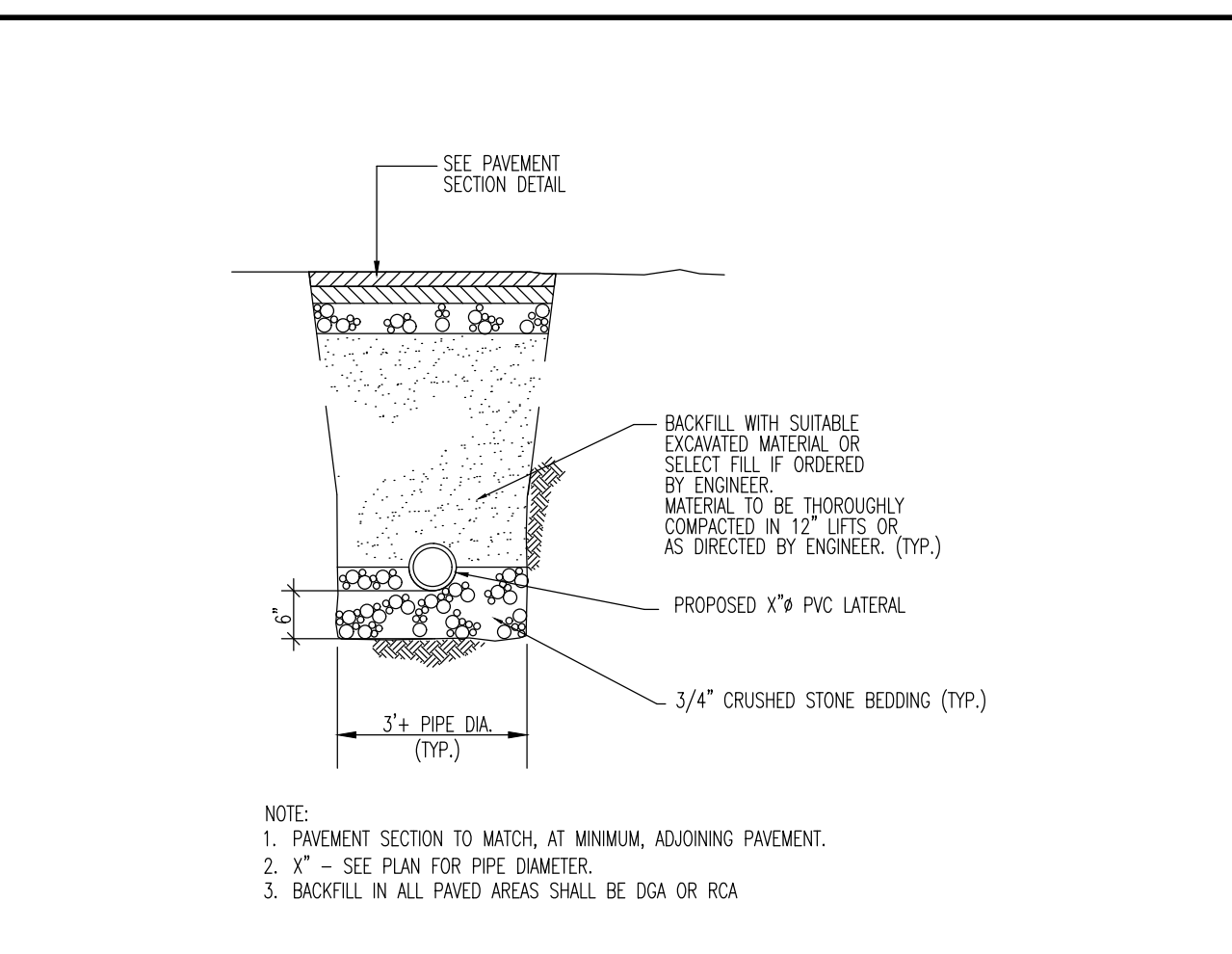
THRUST BLOCK DETAILS
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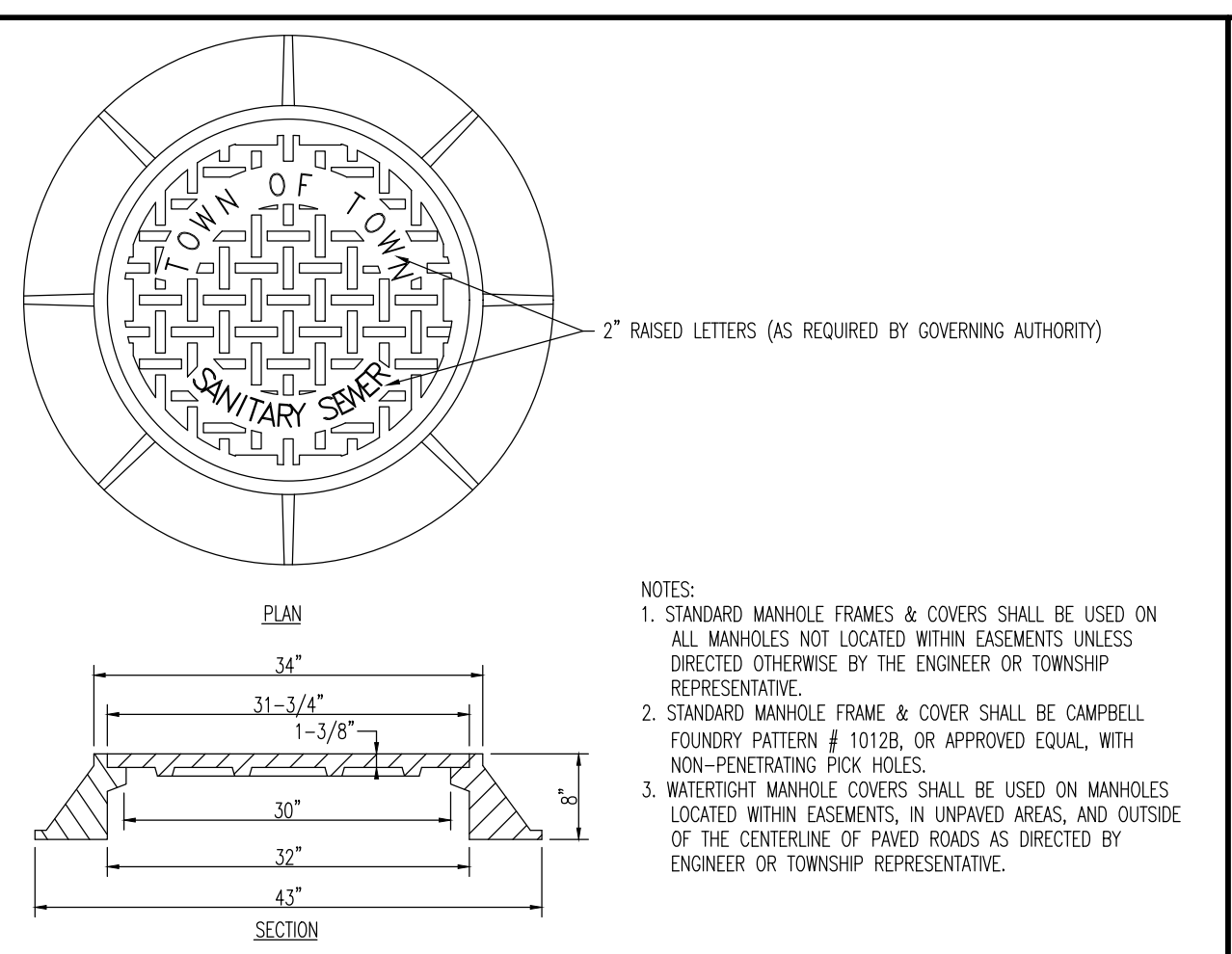
UTILITY CROSSING DETAIL
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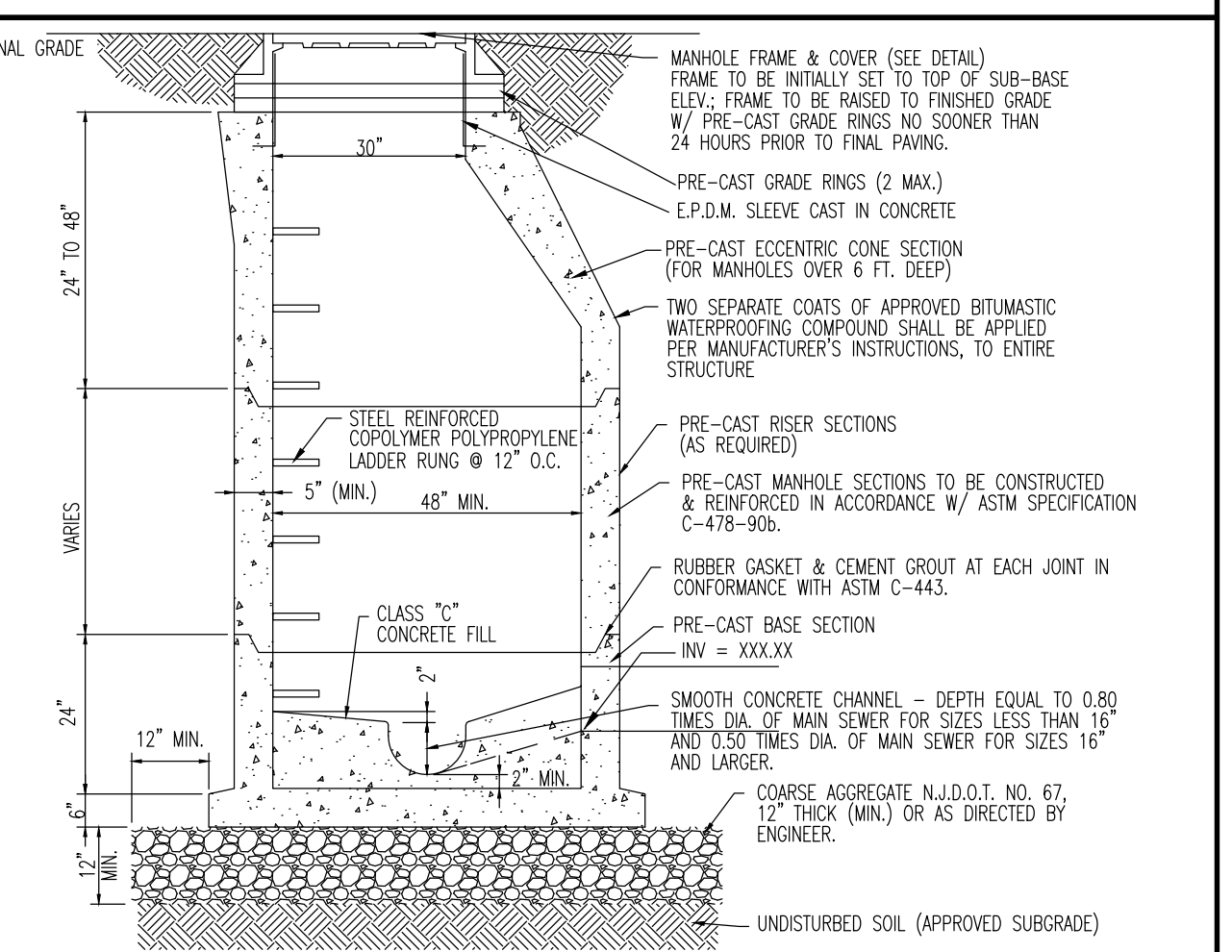
SANITARY SEWER DOGHOUSE MANHOLE DETAIL
NOT TO SCALE



SANITARY SEWER TRENCH DETAIL
NOT TO SCALE



SANITARY MANHOLE FRAME DETAIL
NOT TO SCALE



PRECAST SANITARY MANHOLE
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BLOCK 10801, LOT 3
62A VALLEY ROAD (C.R. 512)
TOWNSHIP OF LONG HILL, MORRIS COUNTY, NEW JERSEY

DESIGNED BY: JCSJ
CHECKED BY: JCSJ
DATE: 02/05/21

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TITLE: CONSTRUCTION DETAILS

SCALE: (H) AS SHOWN DATE: 08/07/2020
PROJECT NO: 0555-99-010

SHEET NO: 19 OF 21

Plotted: 02/05/21 - 12:06 PM, By: danderson
File: \\despc\local\despc\data\DEPC\PROJECTS\0555 Elite Properties\09-010 Long Hill\DWG\Site Plans\055599\0501.dwg, --- 19 CONSTRUCTION DETAILS