

STS Comments
12-8-2021

Stormwater Drainage Overflow

Shoreline Resources, LLC

26 North Front Street
New Bedford, Massachusetts

OWNER/APPLICANT:
SHORELINE RESOURCES, LLC
137 POPE'S ISLAND
NEW BEDFORD, MA 02740

CIVIL ENGINEER:
 **PARE**
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100



SCALE: N.T.S.

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CITY OF NEW BEDFORD ENGINEERING AND DEPARTMENT OF PUBLIC INFRASTRUCTURE SUBMISSION
NOVEMBER 4, 2021

1. PROJECT LOCATION: SHORELINE RESOURCES, LLC, 26 NORTH FRONT STREET, NEW BEDFORD, MA 02746. ASSESSOR'S MAP 79, LOT 2.
2. EXISTING CONDITIONS MAPPING TAKEN FROM AERIAL AND GPS SURVEY PERFORMED BY CIVILVIEW, INC., STATE OF MASSACHUSETTS.
3. FORMER FACILITY PIPING PLAN TAKEN FROM 1972 DRAWING TITLED: REVERE COPPER AND BRASS, MILL PREPARED BY REVERE COPPER PRODUCTS, DATED 2-22-72.
4. LIMITED EXISTING CONDITIONS INFORMATION OBTAINED BY PARE CORPORATION DURING FIELD VISIT ON JULY 1, 2010.
5. HORIZONTAL DATUM IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83).
6. ELEVATIONS ARE PROVIDED BY CIVILVIEW, INC. AND BASED UPON THE NORTH AMERICAN VERTICAL DATUM (NAVD83).
7. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR BRISTOL COUNTY, MASSACHUSETTS, SUBJECT PROPERTY IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, ZONE AC, WITH A DETERMINED ELEVATION OF 10.0 FEET ABOVE MEAN SEA LEVEL (NAVD83).
8. PROPERTY LINES SHOWN ARE APPROXIMATE ONLY, BASED UPON AVAILABLE GIS INFORMATION.

1. THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE CONSTRUCTION, 2020 EDITION OR LATEST REVISION, THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS AND THE CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE (DPINFRA) CONSTRUCTION STANDARD SPECIFICATIONS AND STANDARDS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE MASSACHUSETTS AND CITY OF NEW BEDFORD DPINFRA STANDARD SPECIFICATIONS, STANDARDS AND DETAILS, WITH LATEST REVISIONS. THE LATEST REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION OR THE CITY OF NEW BEDFORD DPINFRA.
2. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA FEDERAL, STATE, AND LOCAL REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOW EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL. Suitable
5. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
6. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
8. ALL SIGNS SHALL BE REFLECTORIZED TYPE II SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION.
9. ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ALL DAMAGE TO EXISTING UTILITIES OR STRUCTURES, AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. NO EXCAVATION SHALL BE DONE UNTIL COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
3. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.
4. ALIGN WALKWAYS ON DOORWAYS THEY SERVE TO PROVIDE MINIMUM REQUIRED MANEUVERING CLEARANCE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND CODE OF MASSACHUSETTS REGULATIONS (CMR) TITLE 821 OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS.

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. WATER, SEWER, DRAINAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.
4. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL OF THE OWNER.

1. UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
3. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
4. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
6. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND FURNISHED TO THE ENGINEER FOR RESOLUTION.
7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION.
8. GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH ~~THREE~~ BLOCKS. ALL WATER DISTRIBUTION PIPING AND FITTINGS MUST ADHERE TO THE CITY OF NEW BEDFORD WATER SPECIFICATIONS AND SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION PRIOR TO TAPPING THE SERVICE MAIN.
11. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES ~~SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.~~
12. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY'S (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE PROJECT ORDER OF CONDITIONS PURSUANT TO MASSEPPE FILE NO SE 049-0867 ISSUED MAY 6, 2021 AND THE CITY OF NEW BEDFORD SPECIAL CONDITIONS 21 THROUGH 51.
3. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
4. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM MEASURES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
5. REQUIRED PERIMETER CONTROL SHALL BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
6. AS FEASIBLE, CONSTRUCTION SHALL BE PHASED TO LIMIT THE AREA OF EXPOSED SOIL AND THE DURATION OF EXPOSURE. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND/OR PERMANENTLY STABILIZED WITHIN 14 DAYS FOLLOWING COMPLETION OF GRADING ACTIVITIES.
7. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES FOR THE DURATION OF THE PROJECT WORK CONTAINED HEREIN AND UNTIL SUCH TIME A CERTIFICATE OF COMPLIANCE IS RENDERED BY THE LOCAL CONSERVATION COMMISSION.
8. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE EROSION CONTROL BARRIERS ARE INTACT.
9. CLEAN AND MAINTAIN SEDIMENTATION CONTROL BARRIERS WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIER SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
10. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
11. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
12. SOIL AND OTHER MATERIALS RESULTING FROM SITE CLEARING MAY BE RECYCLED AND/OR REUSED ON THE SITE AS APPROPRIATE. WASTE MATERIALS SHALL BE REMOVED FROM THE SITE. **AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.**
13. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROPRIATE METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. **DPI MAY DIRECT OWNER/CONTRACTOR TO CONDUCT STREET SWEEPING AS REQUIRED**
14. CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED WITH HAY BALES OR SEDIMENT BAGS IN PAVED AREAS UNTIL CONTRIBUTING AREA IS PERMANENTLY STABILIZED.
15. DEWATERING WASTEWATER PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO A DEWATERING BASIN OR HAY BALE CORRALS. DEWATERING FLUIDS CONTAINING ANY OILS MUST BE DISCHARGED THROUGH AN OIL-WATER SEPARATION BAG OR SYSTEM PRIOR TO DISCHARGE INTO THE AFOREMENTIONED BASINS OR CORRALS. **ALL DEWATERING OPERATIONS SHALL BE DONE SO IN ACCORDANCE WITH ALL APPROVED PERMITS AND PLANS**
16. CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF-SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
17. RIPRAP OR OTHER ENERGY DISSIPATORS SHALL BE USED WHERE NECESSARY TO CONTROL EROSION.
18. ANY EQUIPMENT THAT IS NOT READILY MOBILE (TRACK MACHINERY) SHALL BE PARKED WITHIN THE PROJECT LIMIT OF DISTURBANCE. LARGE AND/OR BULKY MATERIALS SHALL BE STORED SUCH THAT THEY DO NOT INTERFERE WITH THE ONGOING CONSTRUCTION ACTIVITIES OR EROSION CONTROL MEASURES.
19. THE CONTRACTOR SHALL NOT REMOVE ANY COMPOST FILTER SOCKS OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING AREA IS PERMANENTLY STABILIZED AND A CERTIFICATE OF COMPLIANCE IS RECEIVED FROM THE LOCAL CONSERVATION COMMISSION.

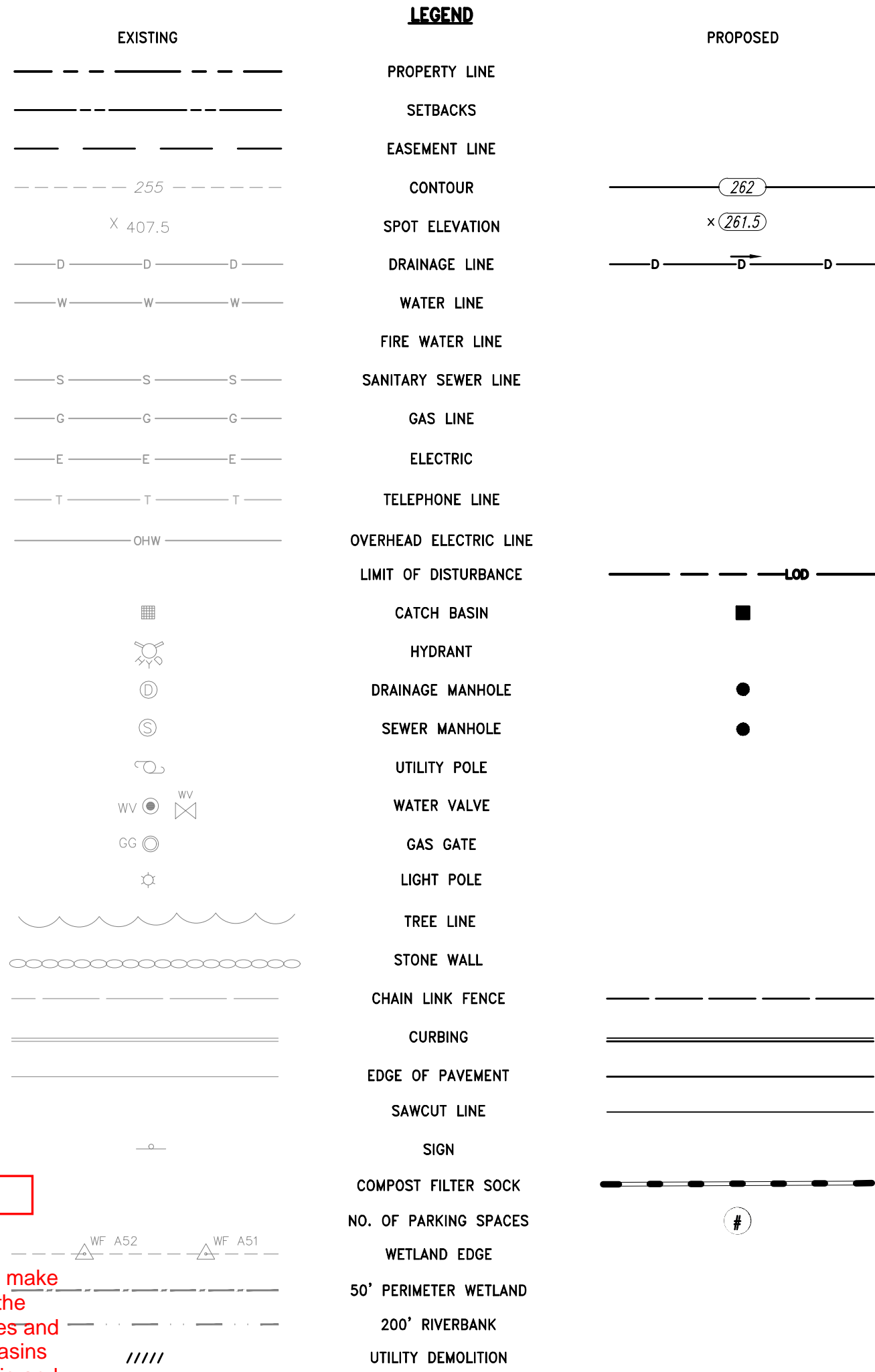
20. CRUSHED STONE CONSTRUCTION ENTRANCE AS DETAILED SHALL BE INSTALLED AND MAINTAINED AT ALL STORMWATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
2. THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF THE CLOSURE, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE CITY OF NEW BEDFORD. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
3. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORMWATER MANAGEMENT SYSTEM FACILITY (INCLUDING BUT NOT LIMITED TO) AFTER EACH MAINTENANCE, INSPECTION, CLEANING, OR REPAIR. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL SUCH MAINTENANCE ACTIVITIES AND SUBMIT THEM TO THE TOWNSHIP ENGINEER FOR REVIEW. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY SUCH MAINTENANCE ACTIVITIES AT LEAST 48 HOURS BEFORE THEY BEGIN. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY SUCH MAINTENANCE ACTIVITIES AT LEAST 48 HOURS BEFORE THEY BEGIN. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY SUCH MAINTENANCE ACTIVITIES AT LEAST 48 HOURS BEFORE THEY BEGIN.
2. THE PARKING LOT AND ENTRY DRIVE SHALL BE SWEEP BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEMS POST-CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

1. Isn't there an approved O&M plan through the NOI and the City's SMRR for these assets?

2. This drain line is owned by the City. There needs to be an easement in place for this pipeline so that the City can access it in the future. Refer to the SMRR for specific requirements. Coordinate with DPI.



ATG	=	ADJUST TO GRADE
CFS	=	COMPOST FILTER SOCK (SEE DETAIL)
CLF	=	CHAIN LINK FENCE
CC	=	CUT AND CAP
CM	=	SAWCUT AND MATCH
CTE	=	CONNECT TO EXISTING
DAC	=	REMOVE AND DISPOSE ASPHALT CURB
DCLF	=	REMOVE CHAIN LINK FENCE
DCP	=	REMOVE AND DISPOSE CONCRETE PAD
DD	=	REMOVE AND DISPOSE DRAINAGE
DPP	=	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
DS	=	REMOVE AND DISPOSE SEWER
HMA	=	HOT MIXED ASPHALT PAVEMENT (SEE DETAIL)
R&D	=	REMOVE AND DISPOSE
TIP	=	TEMPORARY INLET PROTECTION

ABA AMERICANS WITH DISABILITIES ACT
 ASSF AREA SUBJECT TO STORM FLOWAGE
 BM = BENCHMARK
 BMP = BEST MANAGEMENT PRACTICE
 BIT. = BITUMINOUS
 BOT. = BOTTOM
 CI = CAST IRON
 CB = CATCH BASIN, 4' DIA. UNLESS OTHERWISE NOTED
 CL. = CLASS
 CWR CODE OF MASSACHUSETTS REGULATIONS
 CONC. = CONCRETE
 DEMO = DEMOLITION
 DIA = DIAMETER
 DIP = DUCTILE IRON PIPE
 DMH = DRAIN MANHOLE
 EOE EDGE OF PAVEMENT
 ELEV.EL = ELEVATION
 EX. EXIST. = EXISTING
 FF = FINISH FLOOR ELEVATION
 FT = FOOT
 GTD = GRADE TO DRAIN
 HDPE = HIGH DENSITY POLYETHYLENE PIPE
 HYD = HYDRANT
 I.D. = INNER DIAMETER
 INV. = INVERT
 LOD = LIMIT OF DISTURBANCE
 LP = LOW POINT
 MUTCD = MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
 MAX. = MAXIMUM
 MIN. = MINIMUM
 NTS, N.T.S. = NOT TO SCALE
 OWS = OIL WATER SEPARATOR
 PERF. = PERFORATED
 PE = POLYETHYLENE
 PVC = POLYVINYL CHLORIDE
 R=X" = RADIUS
 RCP = REINFORCED CONCRETE PIPE
 MASSDOT = MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
 MASSDOT = MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
 M.A. STD. = MASSACHUSETTS STANDARD
 SMH = SEWER MANHOLE
 SESO = SOIL EROSION AND SEDIMENT CONTROL
 TP = TEST PIT
 TYP. = TYPICAL
 UP = UTILITY POLE
 VC = VITRIFIED CLAY
 w/ = WITH

Shoreline Resources, LLC

SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING

[illegible]

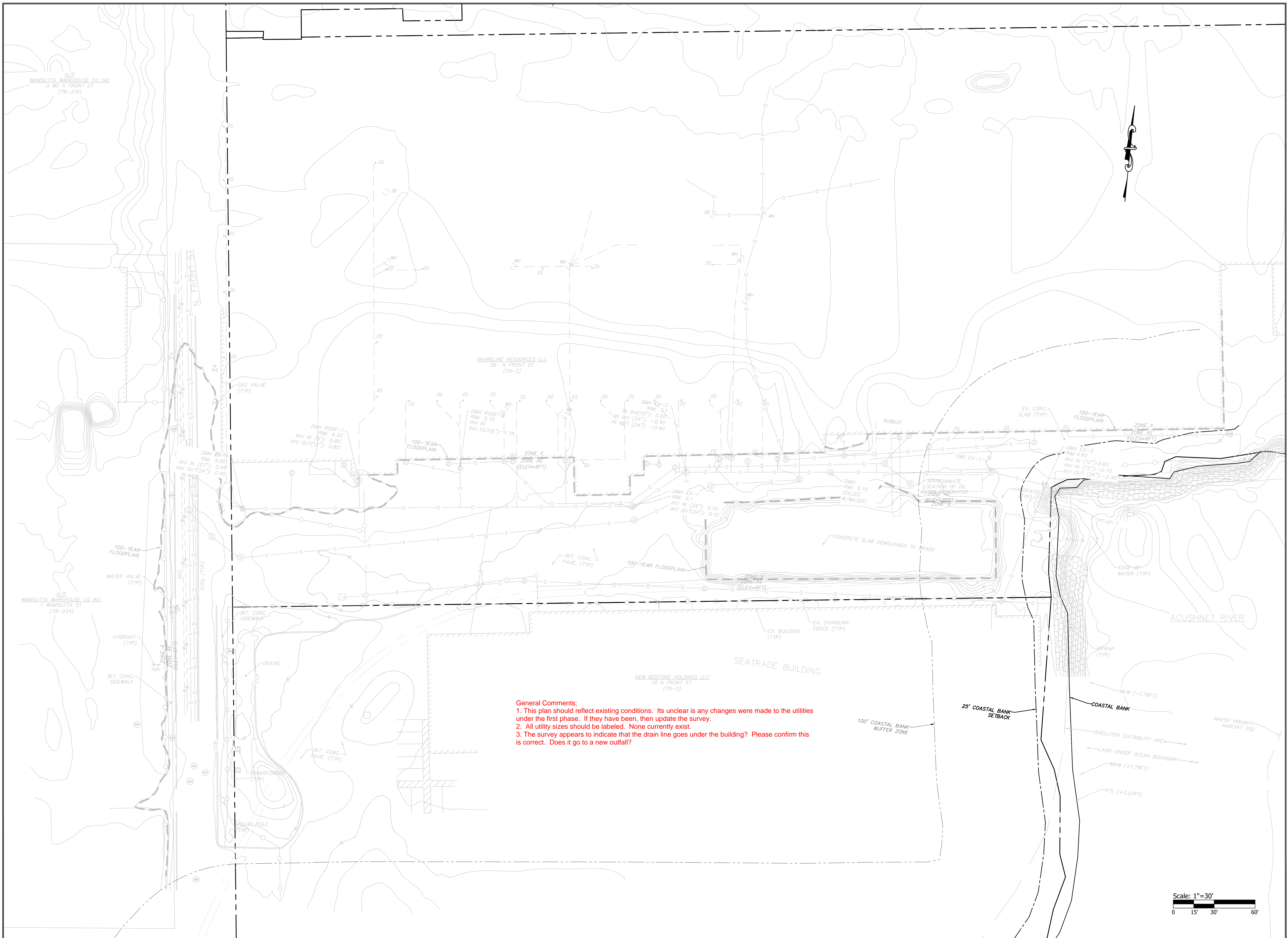
PROJECT NO.:	20109
DATE:	NOVEMBER 202
SCALE:	AS NOTED
DESIGNED BY:	ACT
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APPROVED BY:	ADH
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LEGEND & ABBREVIATIONS

DRAWING NO.:

SHEET NO. 1 OF -

PAGE NO. 2 OF -



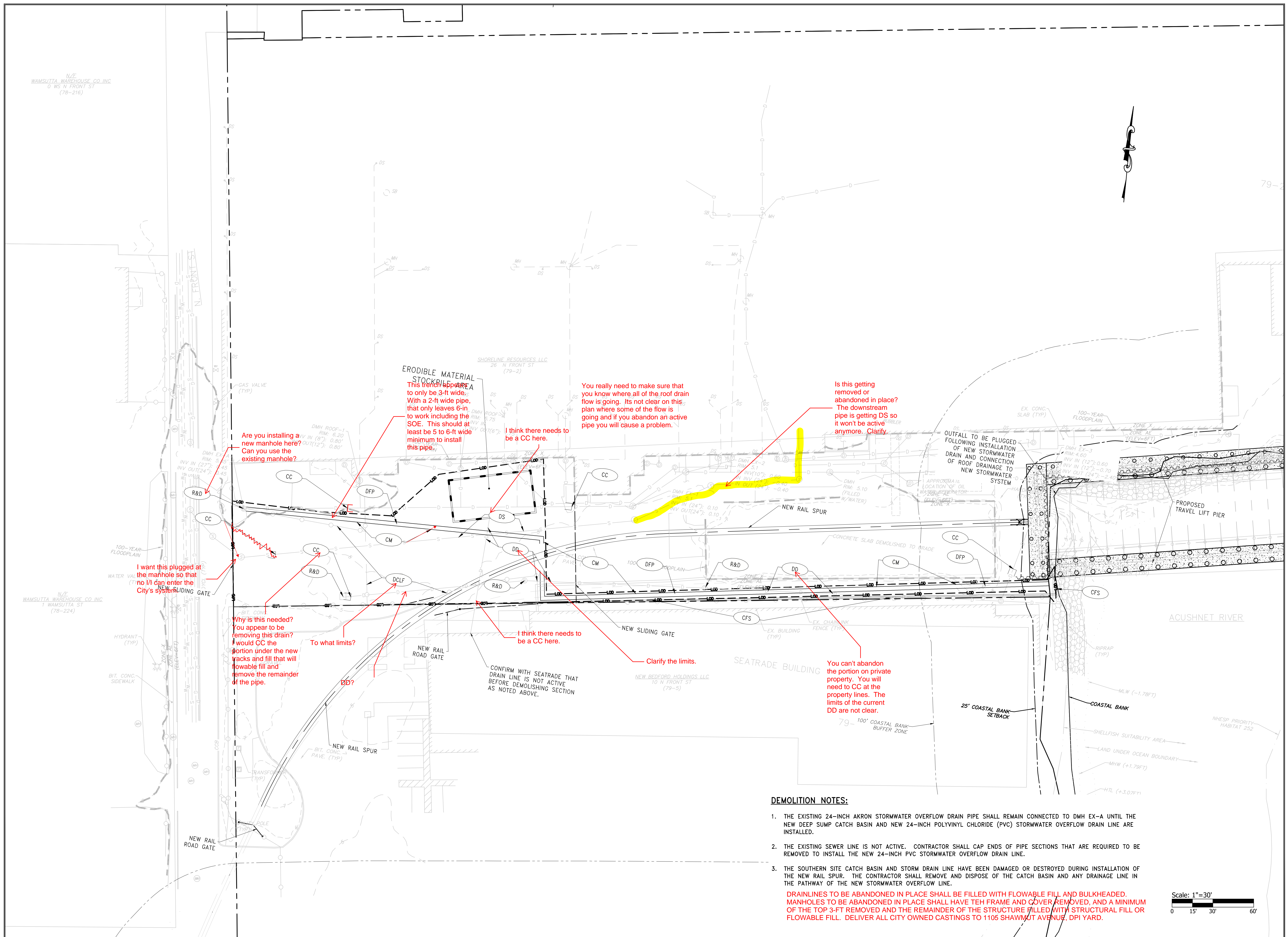
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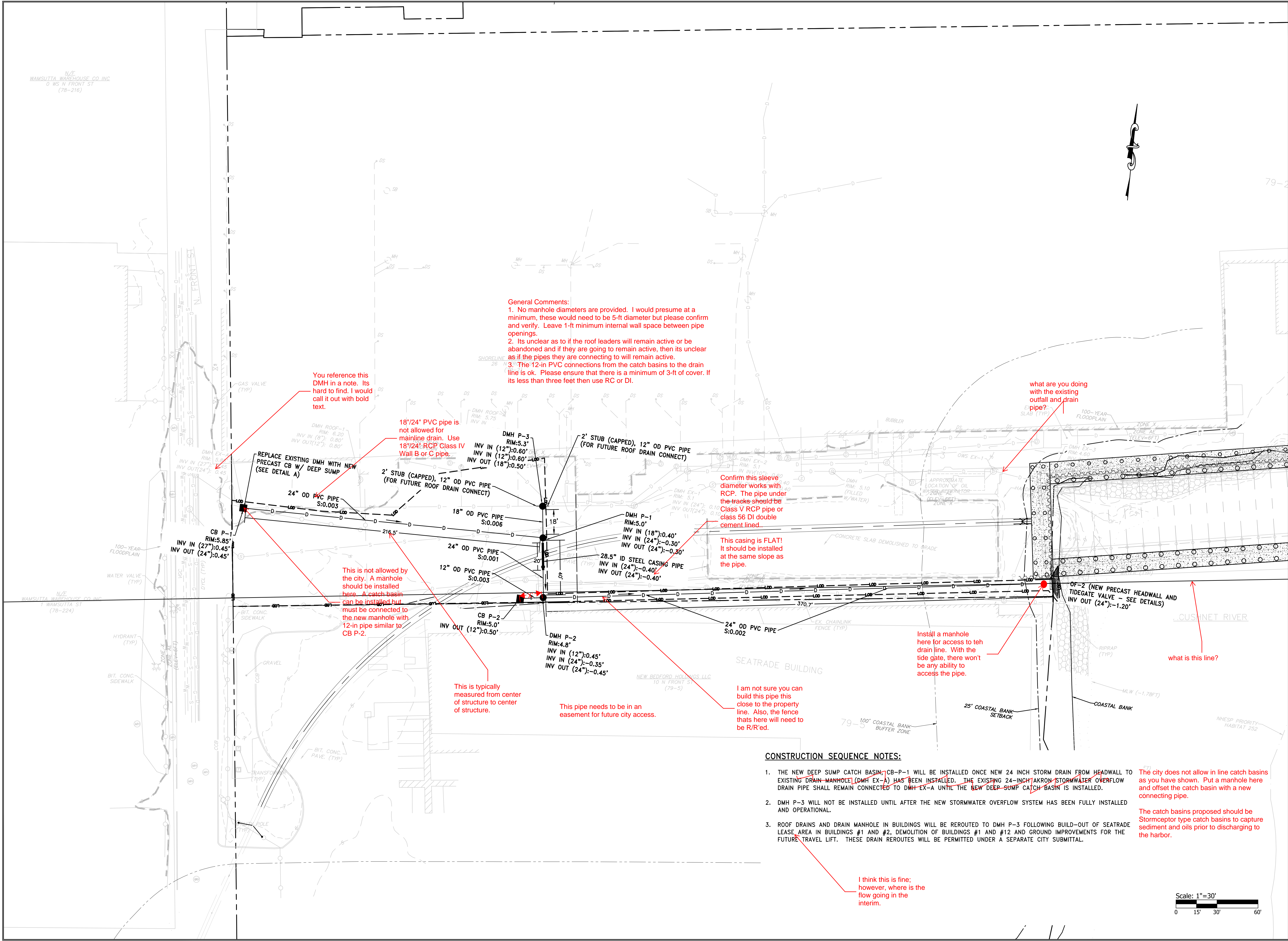
1. This plan should reflect existing conditions. Its unclear if any changes were made to the utilities under the first phase. If they have been, then update the survey.
2. All utility sizes should be labeled. None currently exist.
3. The survey appears to indicate that the drain line goes under the building? Please confirm this is correct. Does it go to a new outfall?

Scale: 1"=30'

A horizontal scale bar with a black and white alternating pattern. It is marked with 0, 15', 30', and 60'.

PAGE NO. 3 OF -





OWNER/APPLICANT:

SCALE ADJUSTMENT GUIDE
0'
1" = 30'
BAR IS ONE INCH ON ORIGINAL DRAWING

Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

REVISIONS:

PROJECT NO.: 20109
DATE: NOVEMBER 2021
SCALE: AS NOTED
DESIGNED BY: ACT
CHECKED BY: DL
DRAWN BY: ACT
APPROVED BY: ADH
DRAWING TITLE:

PROPOSED
STORMWATER
OVERFLOW

DRAWING NO.:
C4.0

SHEET NO. 4 OF 4

OWNER/APPLICANT:

SCALE ADJUSTMENT GUIDE
0'
1'
BAR IS ONE INCH ON ORIGINAL DRAWING

Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

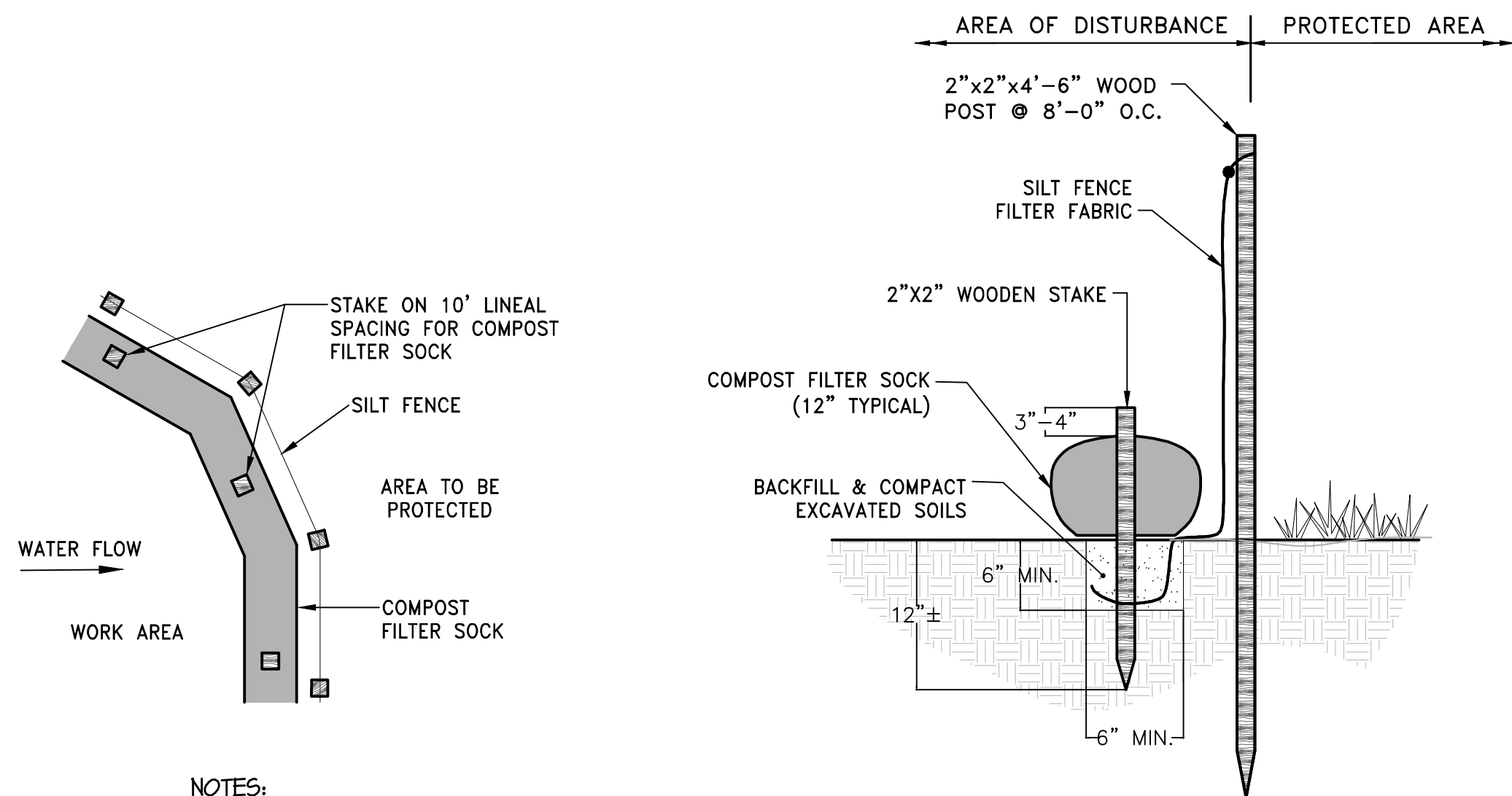
REVISIONS:

PROJECT NO.: 20109
DATE: NOVEMBER 2021
SCALE: AS NOTED
DESIGNED BY: ACT
CHECKED BY: DL
DRAWN BY: ACT
APPROVED BY: ADH
DRAWING TITLE:

DETAIL 1

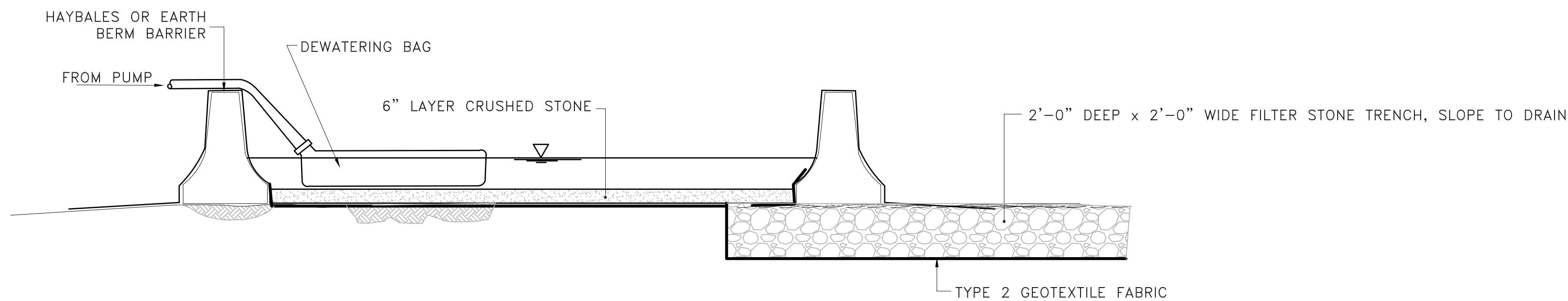
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SHEET NO. 5 OF 5



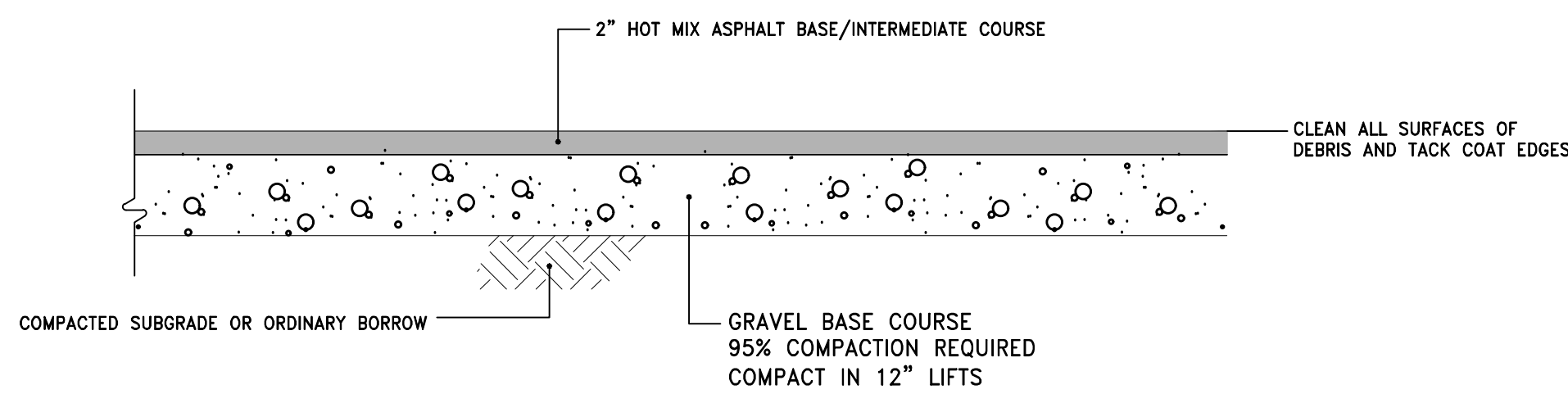
- NOTES:**
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
 2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
 3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY A MINIMUM OF 2 FEET.

COMPOST FILTER SOCK WITH SILT FENCE DETAIL
NOT TO SCALE

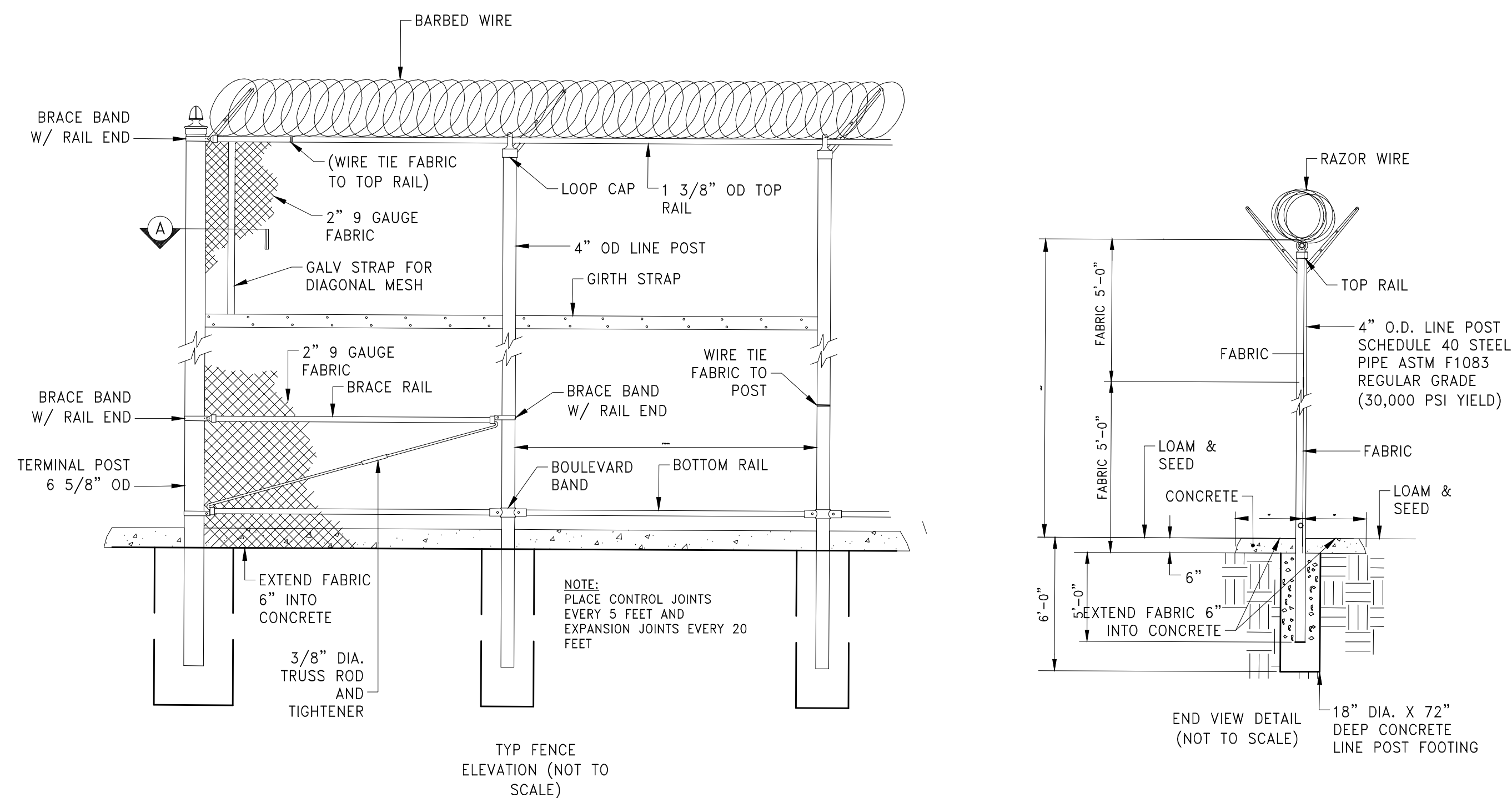


NOTE:
CONTRACTOR TO PERIODICALLY REMOVE SILT AND STONE AT TRENCH DRAIN TO PROMOTE FLOW OF WATER FROM BASIN. ALTERNATIVELY AN OUTFLOW WEIR MAY BE SUBMITTED FOR APPROVAL.

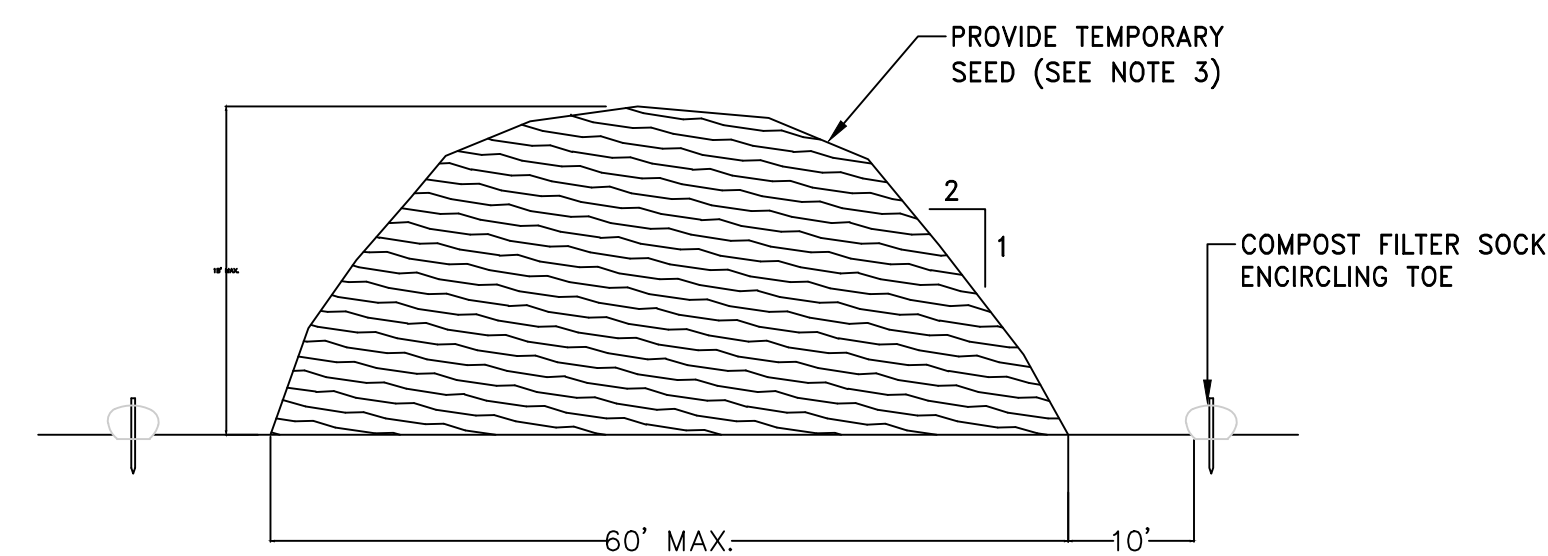
FILTER FABRIC DEWATERING BASIN DETAIL
NOT TO SCALE



HOT MIX ASPHALT PAVEMENT DETAIL
NOT TO SCALE



CHAIN LINK FENCE & GATE
NOT TO SCALE



- NOTES:**
1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
 2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
 3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE MASSDOT STD. M6.03.1 EROSION SEED).

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE

OWNER/APPLICANT:

SCALE ADJUSTMENT GUIDE
0'
1" BAR IS ONE INCH ON ORIGINAL DRAWING

Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

REVISIONS:

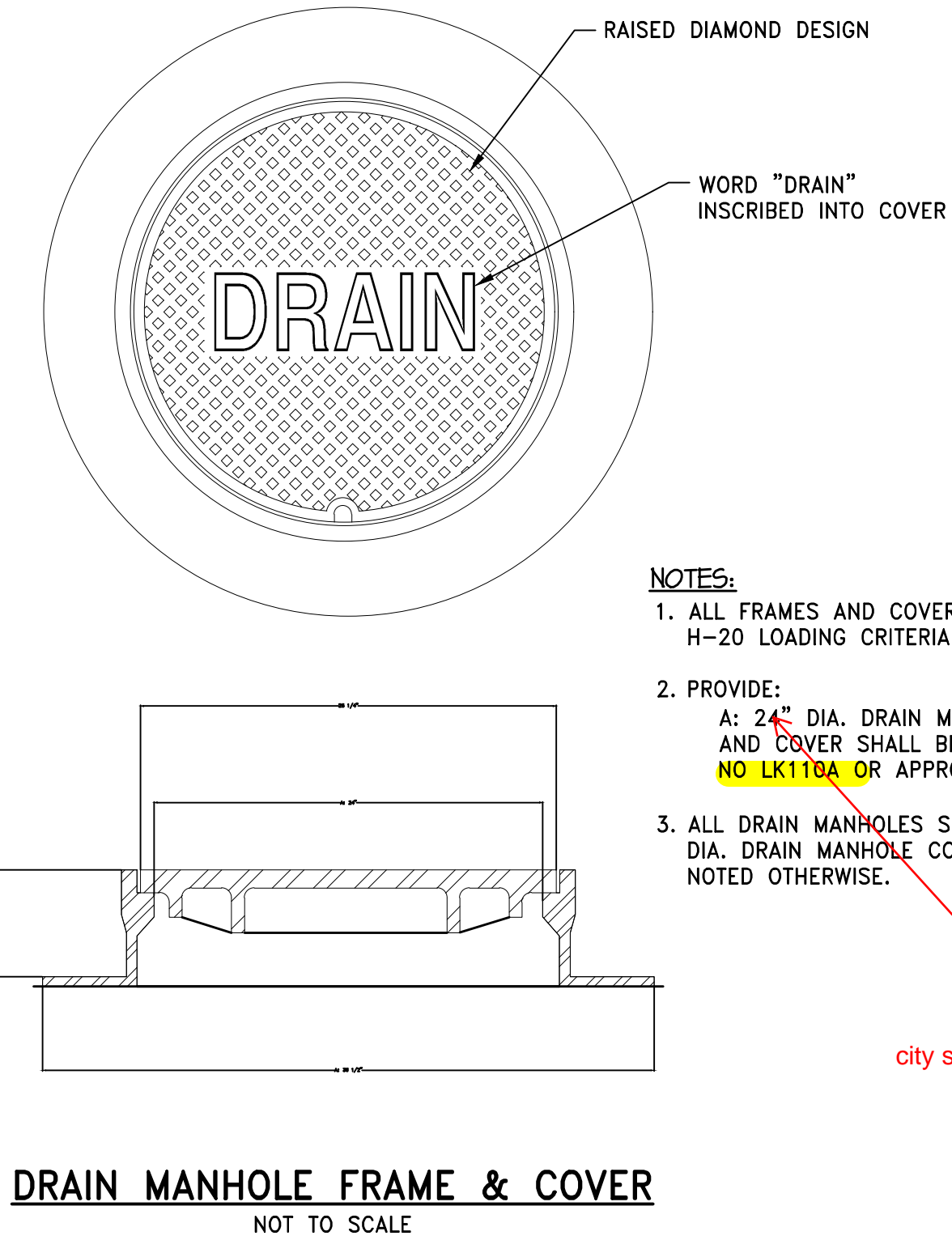
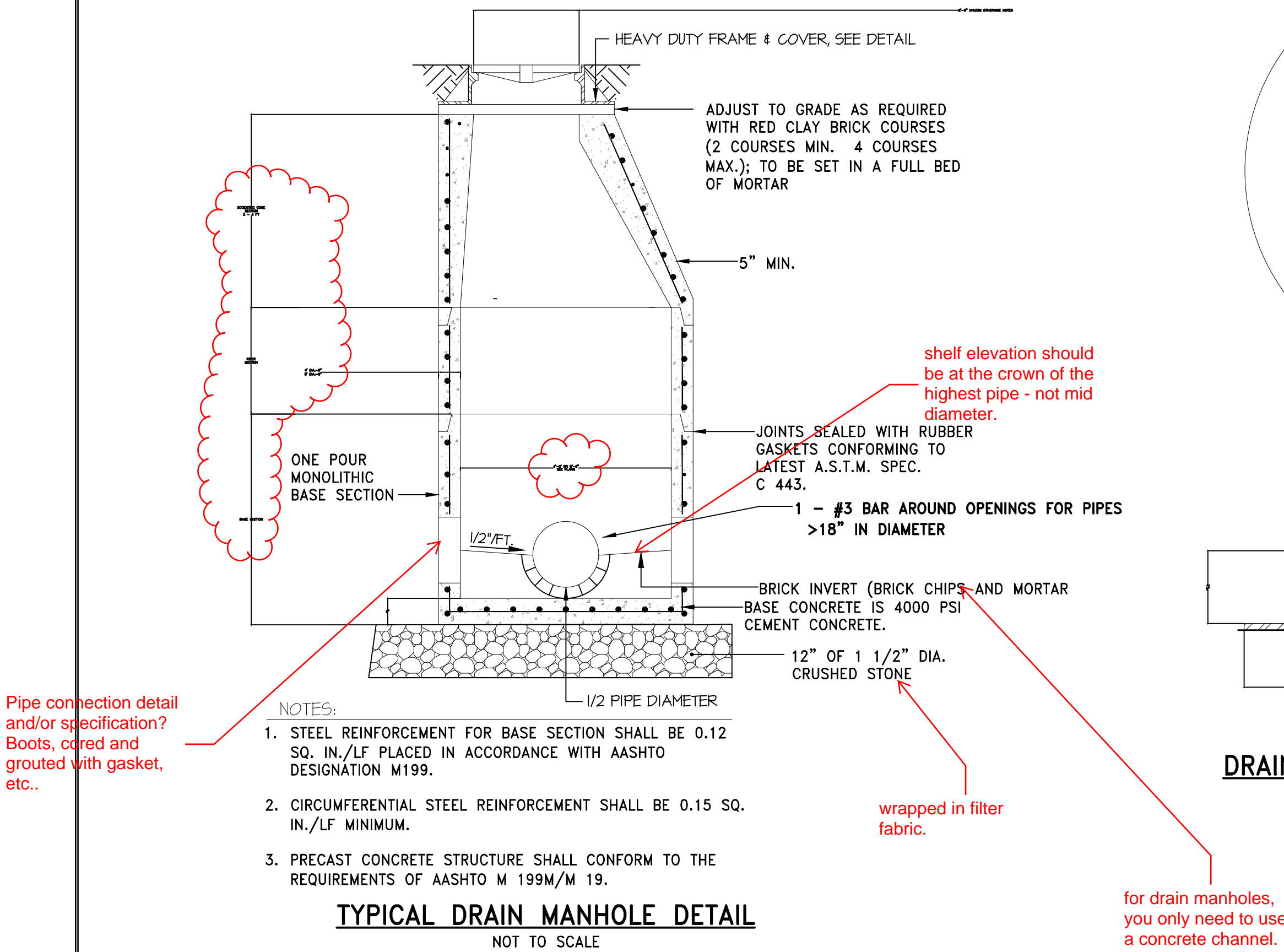
PROJECT NO.: 20109
DATE: NOVEMBER 2021
SCALE: AS NOTED
DESIGNED BY: ACT
CHECKED BY: DL
DRAWN BY: ACT
APPROVED BY: ADH
DRAWING TITLE:

DETAIL 2

DRAWING NO.: C5.2

SHEET NO. 6 OF 6

NOTE:
ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-20 LOADING
AS REQ'D



- NOTES:
1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
 2. PROVIDE:
A: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE **LE BARON CAT. NO LK110A** OR APPROVED EQUAL.
 3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

HOW? BRICK BULKHEAD? WELDED PLATES? SHOW A DETAIL.

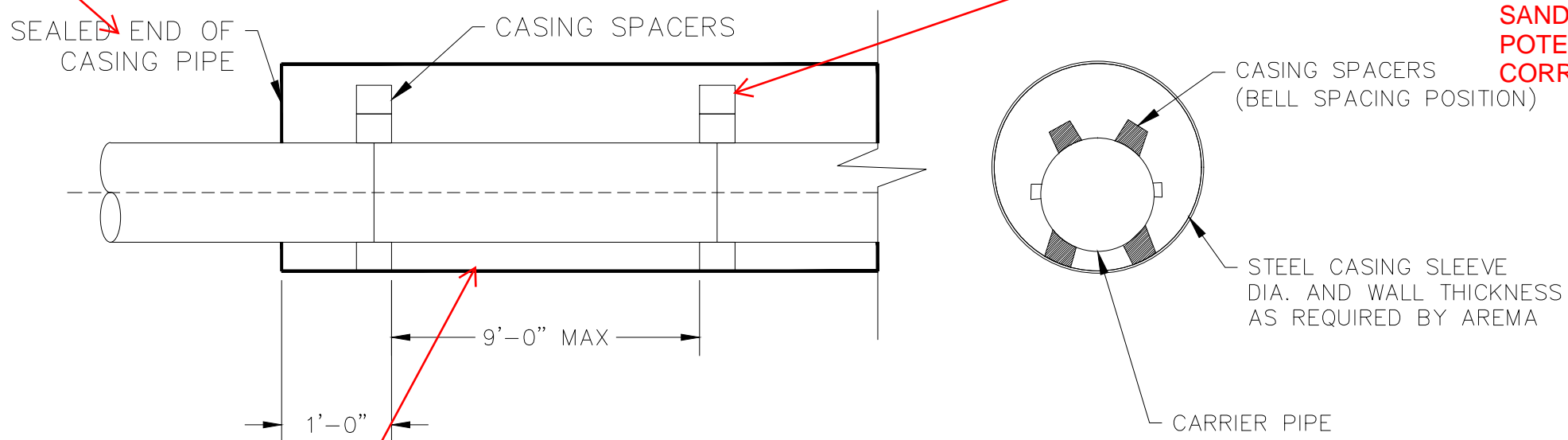
city standard is 30"

LEBARON DOESN'T EXIST ANYMORE. USE EAST JORDAN IRON WORKS.

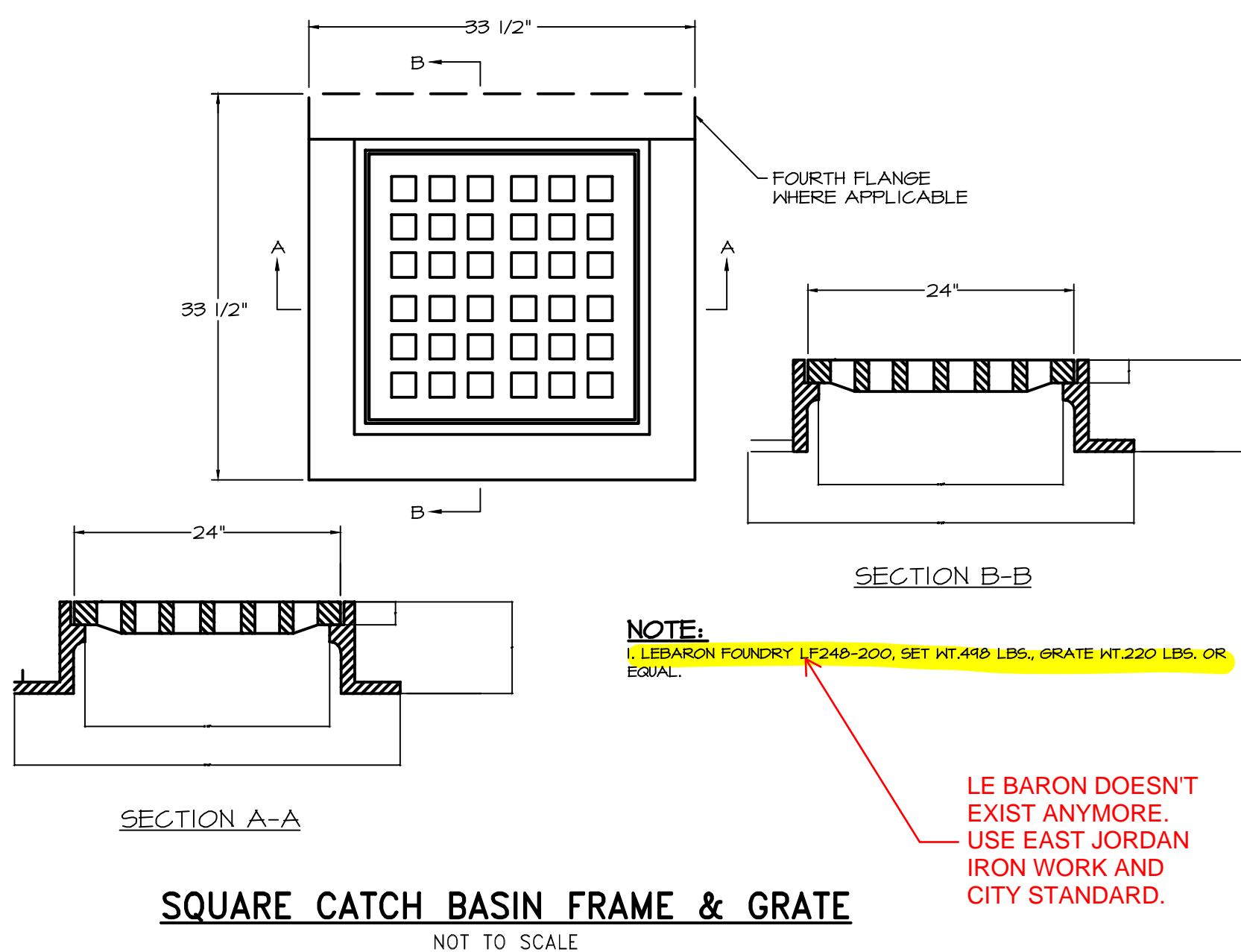
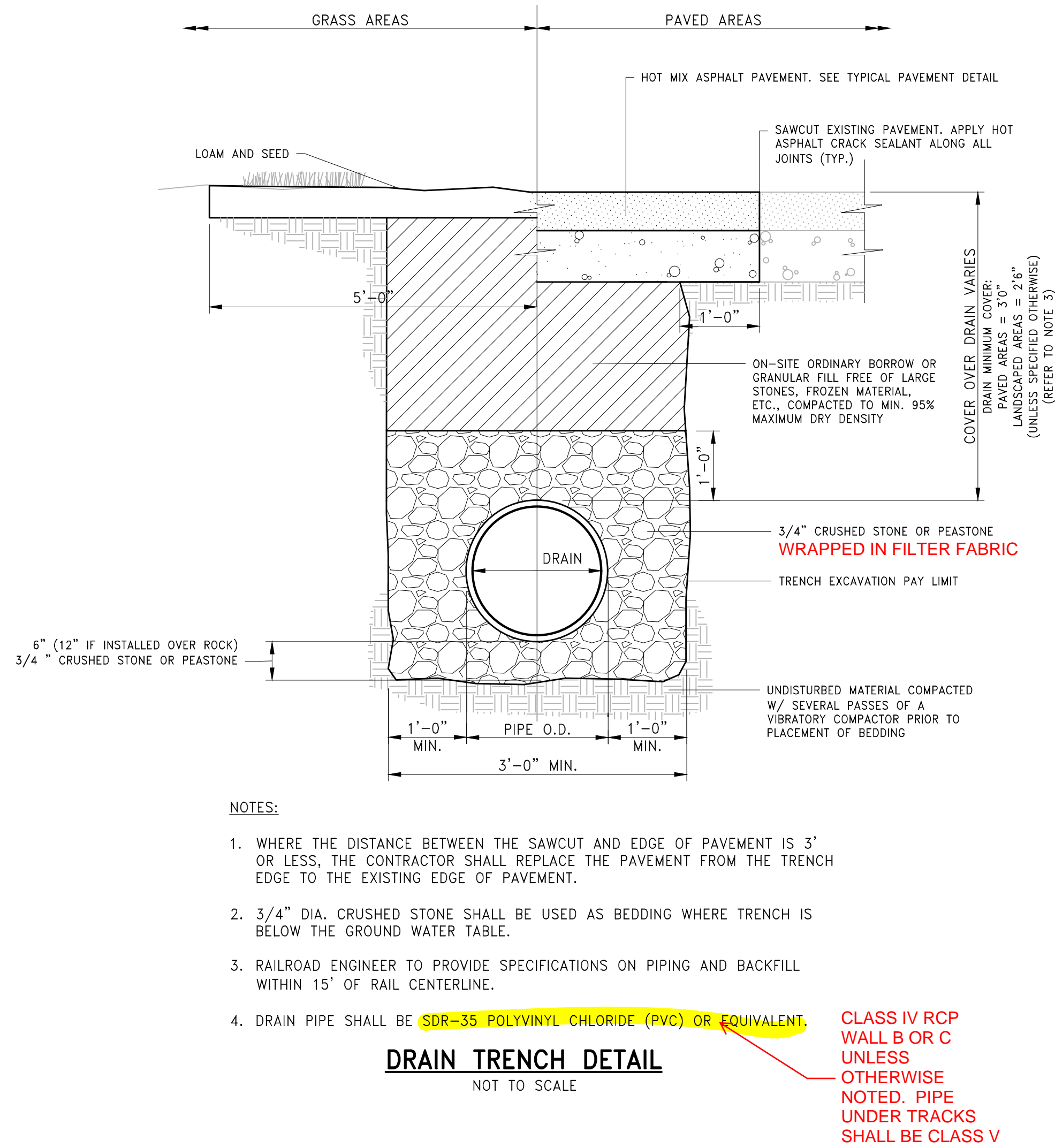
this steel pipe should be coated for corrosion protection.

https://www.powerseal.com/%2Fpsfiles%2FPublications%2F4810_NO_Holes.pdf

Look at these spacers. PowerSeal.

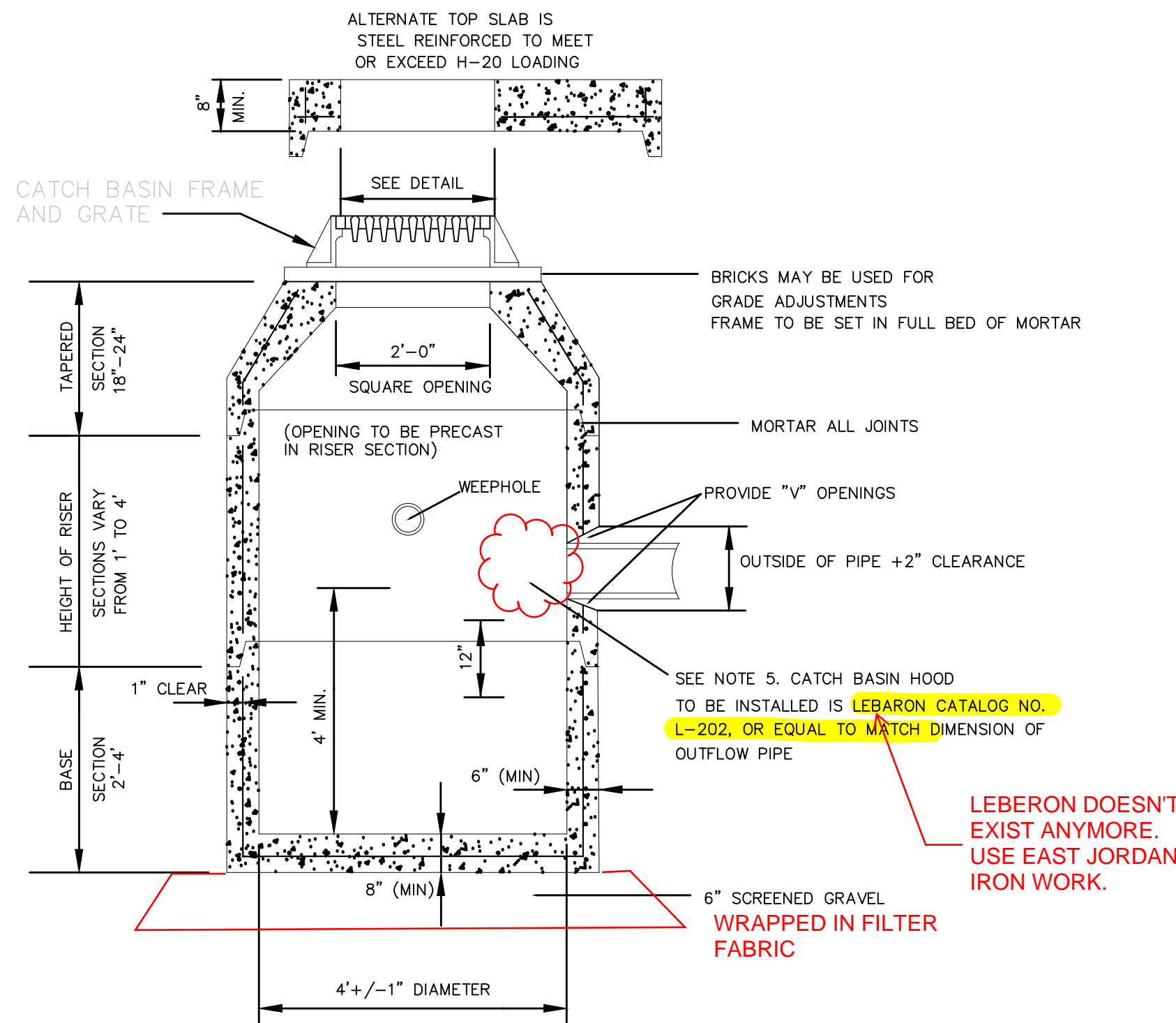


THE SPACERS NEED TO BE ALL THE WAY TO THE EDGE OF THE CASING OR THE CASING COULD COLLAPSE. DEPEND ON WHAT SPACERS YOU USE, YOU WILL NEED TO FILL THIS WITH FLOW FILL OR GROUT. I WOULD AVOID SAND DUE TO POTENTIAL FOR CORROSION.



NOTE:
LEBARON FOUNDRY LP248-200, SET WT.410 LBS., GRATE WT.220 LBS. OR EQUAL.

LEBARON DOESN'T EXIST ANYMORE. USE EAST JORDAN IRON WORK AND CITY STANDARD.



LEBARON DOESN'T EXIST ANYMORE. USE EAST JORDAN IRON WORK.

OWNER/APPLICANT:

SCALE ADJUSTMENT GUIDE
0'
1'
BAR IS ONE INCH ON ORIGINAL DRAWING

Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

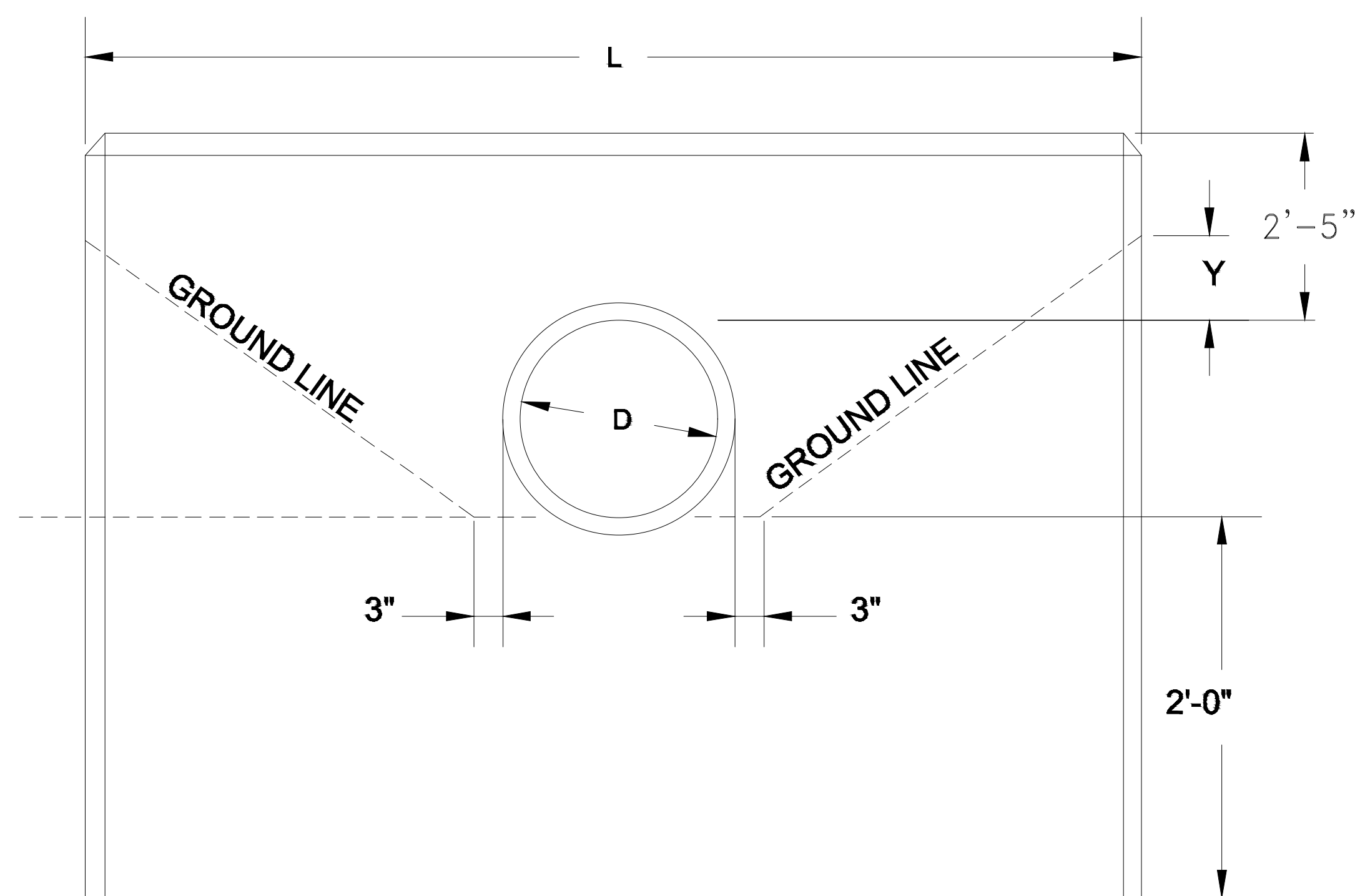
REVISIONS:	

PROJECT NO.: 20109
DATE: NOVEMBER 2021
SCALE: AS NOTED
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DRAWN BY: ACT
APPROVED BY: ADH
DRAWING TITLE:

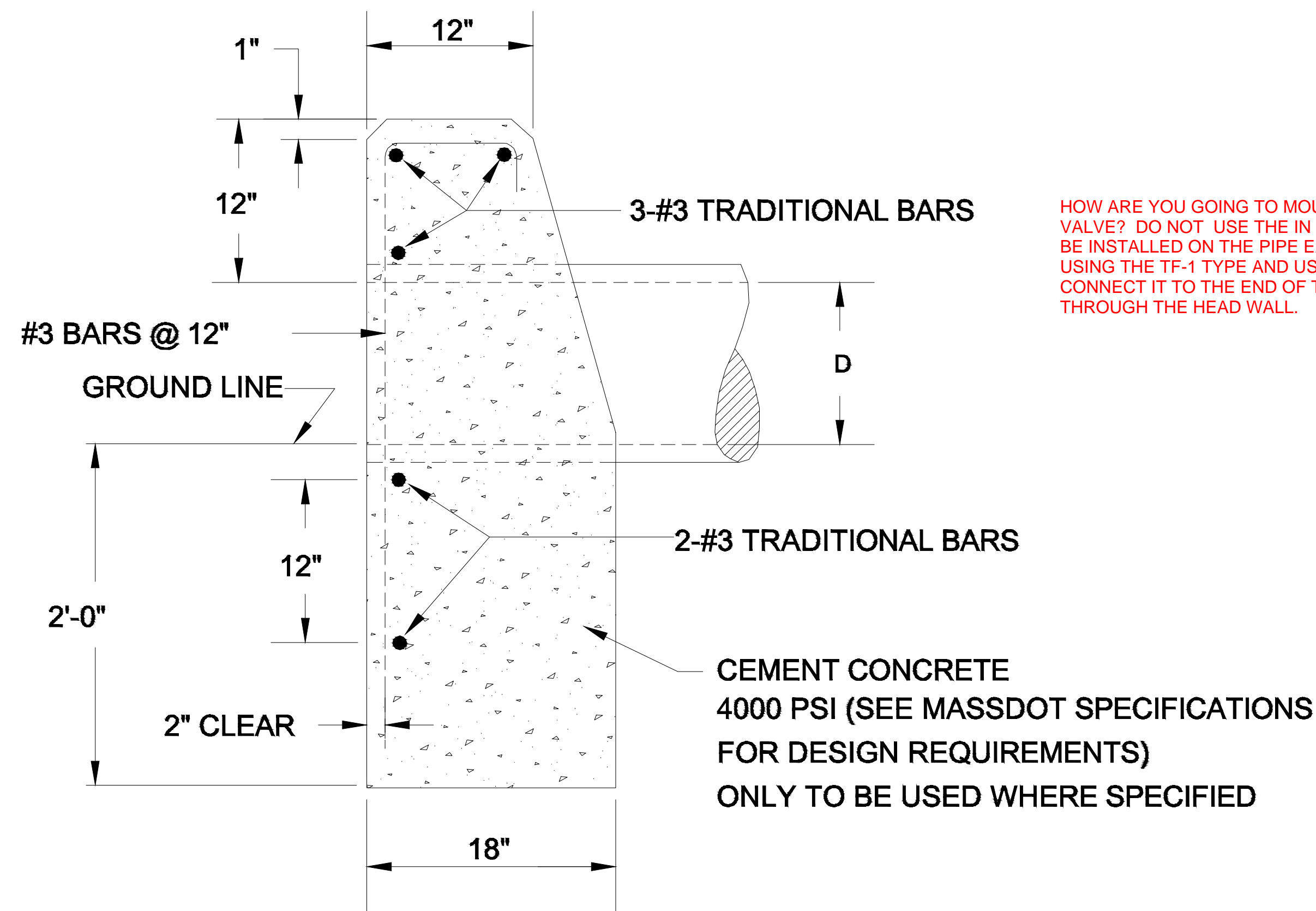
DETAIL 3

DRAWING NO.: C5.3

SHEET NO. 7 OF 7

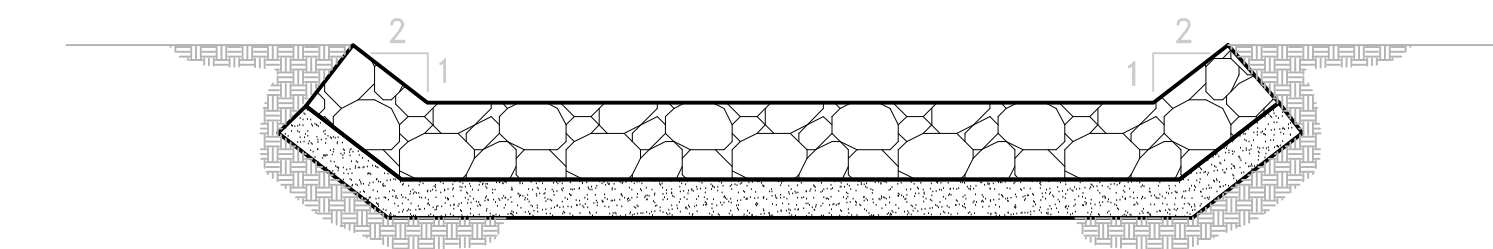


FRONT ELEVATION



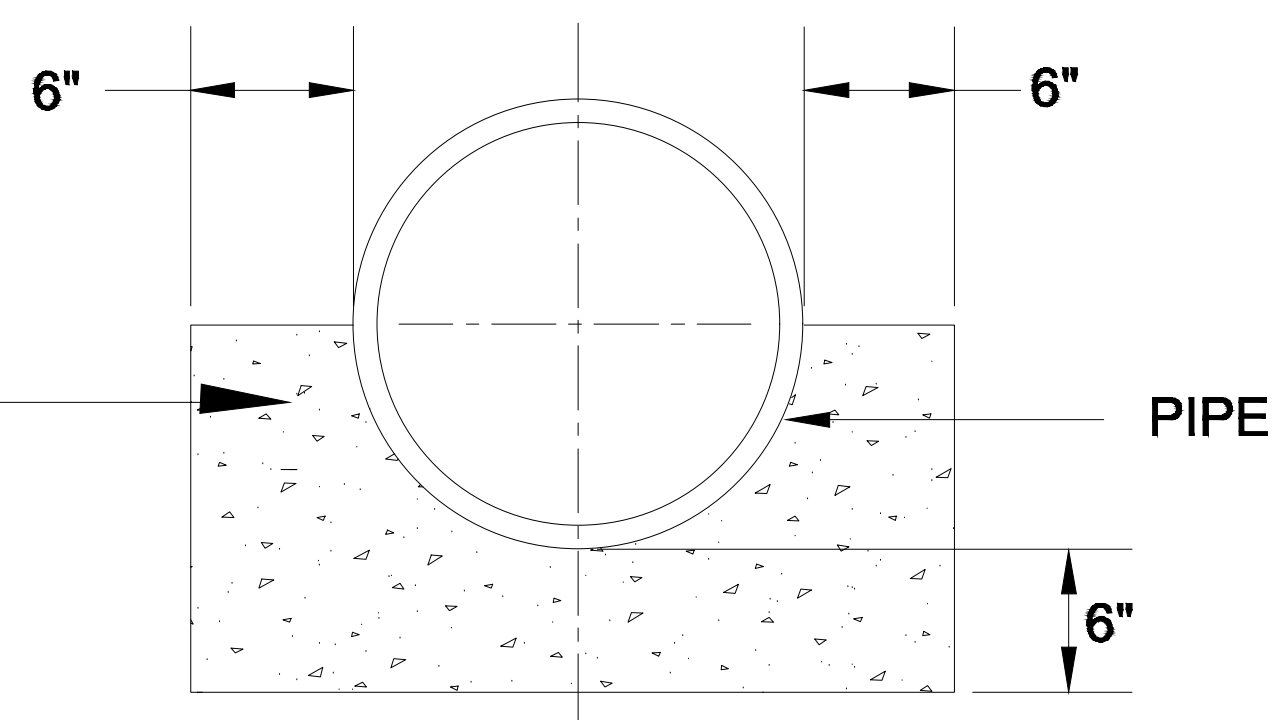
END ELEVATION

HOW ARE YOU GOING TO MOUNT THE TIDE FLEX VALVE? DO NOT USE THE IN LINE ONES. IT SHOULD BE INSTALLED ON THE PIPE EXTERIOR. I RECOMMEND USING THE TF-1 TYPE AND USING TEH STEEL BAND TO CONNECT IT TO THE END OF THE RCP PIPE GOIGN THROUGH THE HEAD WALL.



SECTION A-A

CEMENT CONCRETE
4000 PSI (SEE MASSDOT SPECIFICATIONS
FOR DESIGN REQUIREMENTS)
ONLY TO BE USED WHERE SPECIFIED



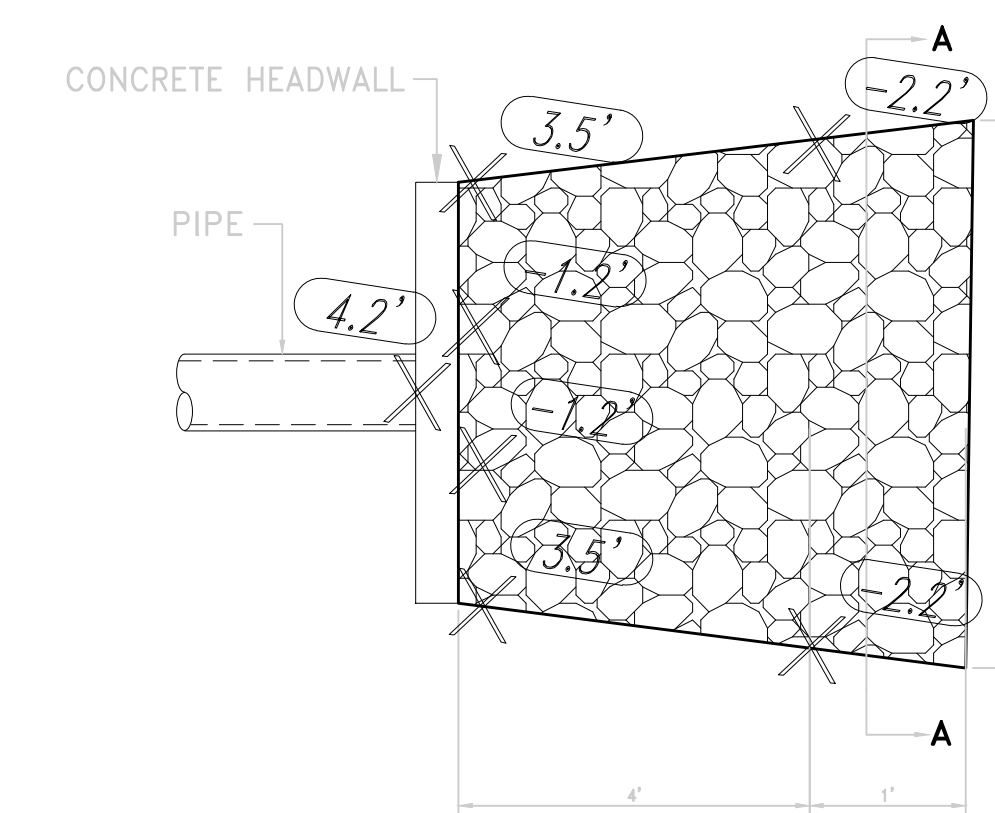
CONCRETE CRADLE
FOR PIPE CULVERTS

NOTES:

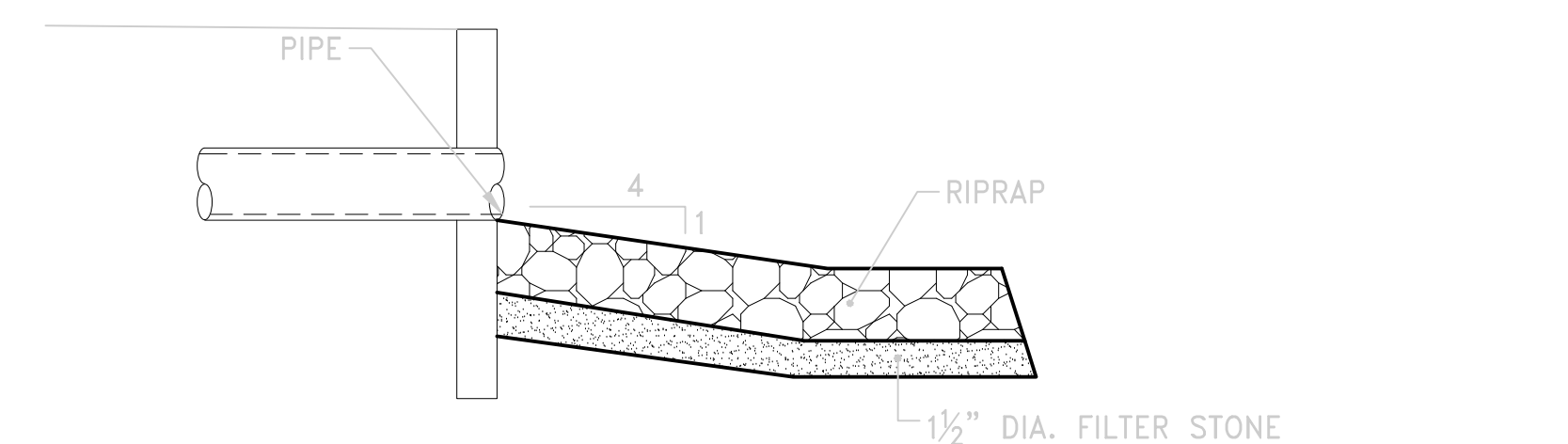
1. FOR DESCRIPTIONS, MATERIALS AND CONSTRUCTION METHODS, SEE LATEST MASSDOT STANDARD SPECIFICATIONS.
2. CONCRETE DIMENSIONS SHOWN ARE MINIMUM.

PIPE DIAMETER, D	1 1/2 : 1 SLOPE	
	L	Y
24"	9'-3"	4"

CONCRETE MASONRY HEADWALL FOR 24" PIPE
NOT TO SCALE



PLAN



SIDE ELEVATION

PIPE OUTLET PROTECTION
NOT TO SCALE

OWNER/APPLICANT:

SCALE ADJUSTMENT GUIDE
0"
1"
BAR IS ONE INCH ON
ORIGINAL DRAWING

Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

REVISIONS:

PROJECT NO.: 20109
DATE: NOVEMBER 2021
SCALE: AS NOTED
DESIGNED BY: ACT
CHECKED BY: DL
DRAWN BY: ACT
APPROVED BY: ADH
DRAWING TITLE:

DETAIL 4

DRAWING NO.: C5.4
SHEET NO. 8 OF -

CheckMate® Configurations and Custom Designs

Downstream Clamp

Upstream Clamp

Downstream Flanged

Upstream Flanged

Downstream Flanged Thimble Insert

Upstream Flanged Thimble Insert

CheckMate® can be made for any pipe I.D.
Built to fit in sizes from 3" to 78".

Flange shape and bolt pattern can be customized.
Flangeless thimble inserts are available.

CHECKMATE® VALVE											
NOMINAL PIPE SIZE I.D.		OVERALL LENGTH*		NUMBER OF CLAMPS	CUFF DEPTH		BACK PRESSURE RATING**		WEIGHT		
					Inches	Millimeters	Feet	Meters	Lbs	Kg	
Low Pressure	3	75	5.1	130	1	1.5	38	5	1.5	1.5	0.7
	4	100	7.9	201	1	1.5	38	5	1.5	1.5	0.7
	3	75	5.1	130	1	1.5	38	85	26.0	3	1.4
	4	100	7.9	201	1	1.5	38	85	26.0	3	1.5
Standard Pressure	5	125	9.5	241	1	1.5	38	83	25.3	4	2
	6	150	11.0	279	1	2.0	51	83	25.3	9	4
	7	175	12.8	325	1	2.0	51	79	24.1	11	5
	8	200	15.2	386	1	2.0	51	79	24.1	13	6
	9	225	15.4	391	1	2.0	51	75	22.9	17	8
	10	250	16.1	409	1	2.0	51	71	21.6	20	10
	12	300	19.8	503	1	2.0	51	68	20.1	37	17
	14	350	25.8	655	1	4.0	102	64	20.0	110	50
	16	400	28.6	726	1	4.0	102	60	18.3	133	52
	18	450	31.0	787	1	4.0	102	56	17.1	143	65
	20	500	42.1	1069	2	8.0	203	53	16.2	223	102
	24	600	47.5	1207	2	8.0	203	45	13.7	304	137
	30	750	54.9	1385	2	8.0	203	38	11.6	500	227
	36	900	62.3	1582	2	8.0	203	30	9.1	828	376
	42	1050	70.6	1793	2	8.0	203	26	7.9	1423	646
	48	1200	79.0	2007	2	8.0	203	23	7.0	1801	817
	54	1350	86.4	2195	2	8.0	203	17	5.2	2700	1225
	60	1500	96.8	2459	2	9.0	229	15	4.6	3315	1504
72	1800	119.0	3023	3	12.0	305	13	4.0	6100	2767	
78	1950	119.0	3023	3	12.0	305	13	4.0	7000	3176	

*Shorter lengths available.

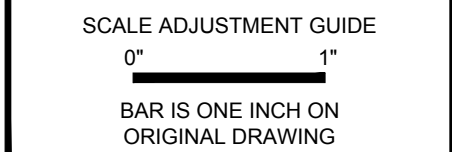
**Back pressure measured from pipe invert.
Higher back pressure ratings available. Consult factory.

6 | www.tideflex.com/checkmate

TIDEFLEX CHECKMATE GATE VALVE

NOT TO SCALE

OWNER/APPLICANT:



Shoreline Resources, LLC
26 North Front Street
New Bedford, Massachusetts

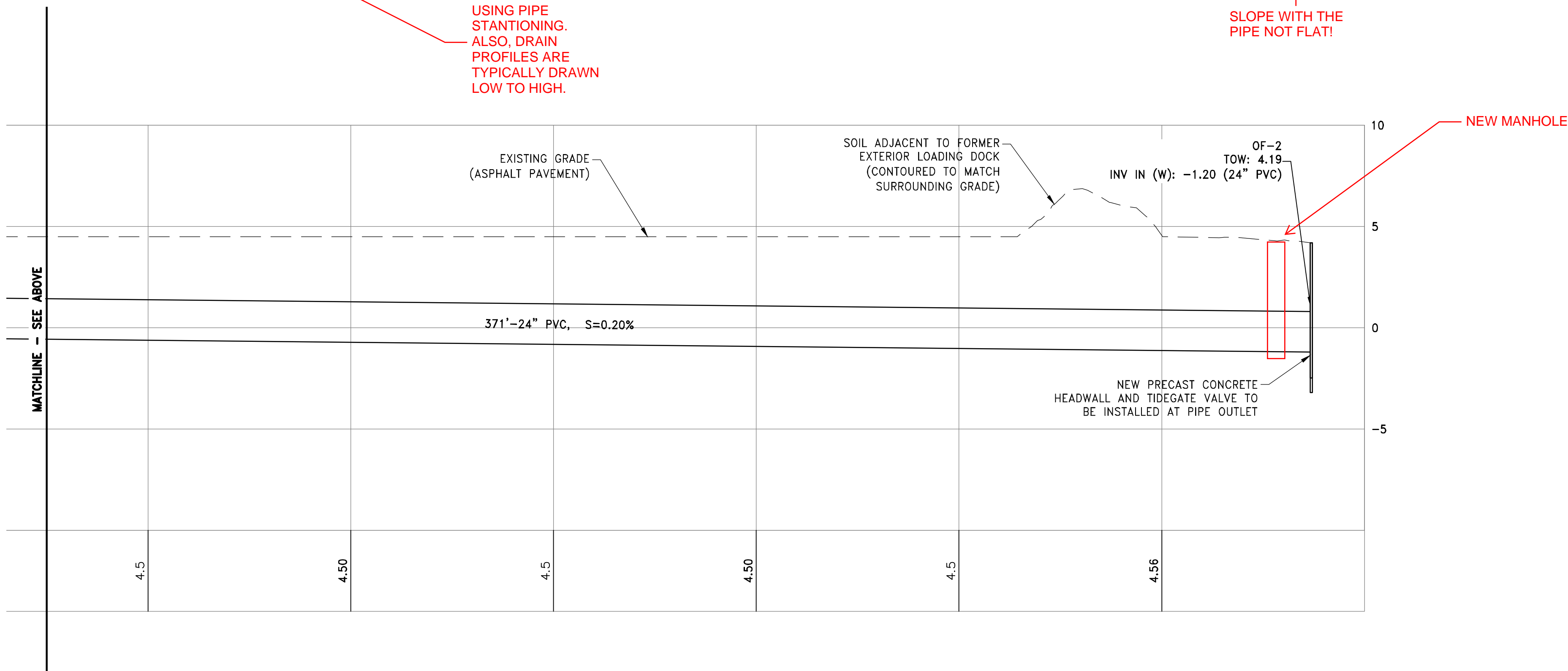
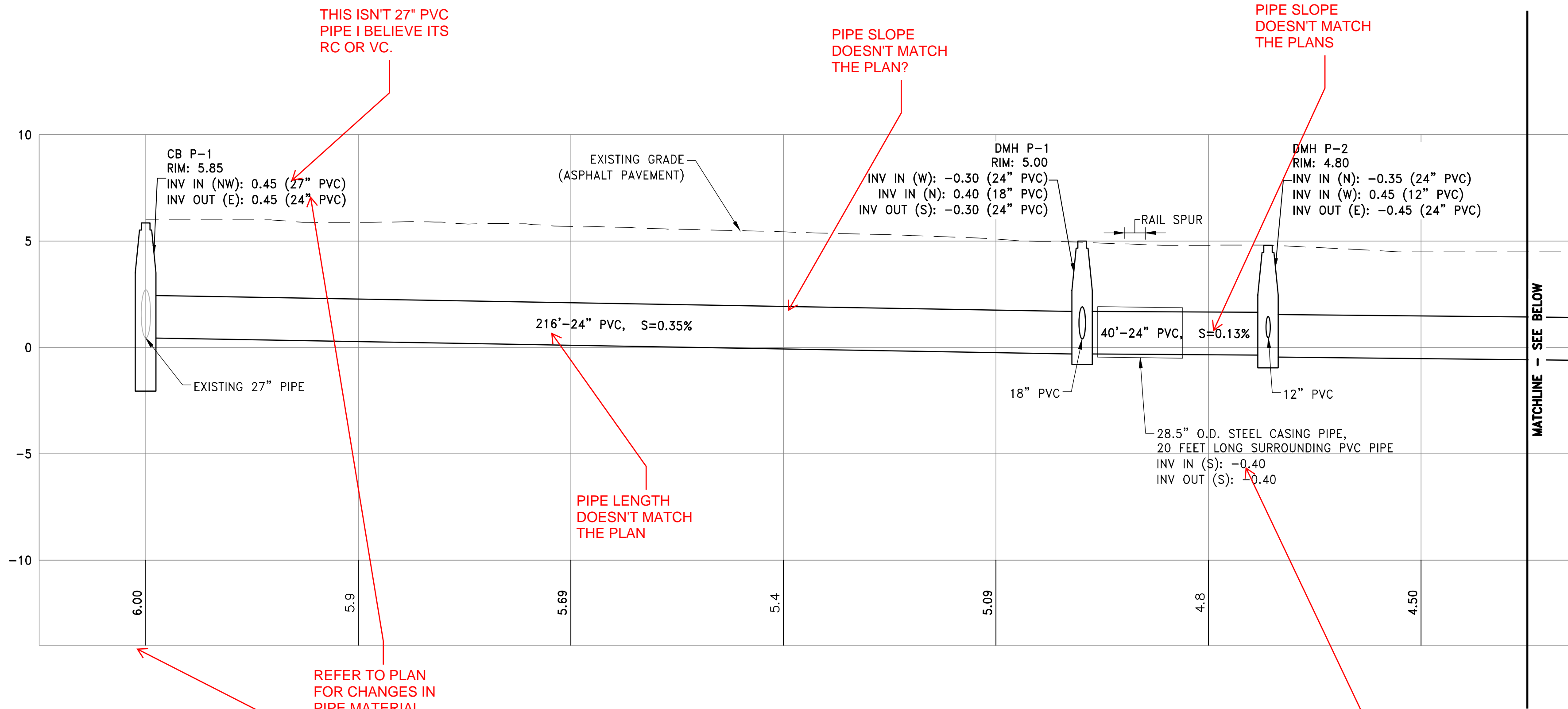
REVISIONS:	

PROJECT NO.: 20109
DATE: JULY 21, 2021
SCALE: AS NOTED
DESIGNED BY:
CHECKED BY: ACT
DRAWN BY: AL
APPROVED BY: ADH
DRAWING TITLE:

PROPOSED
STORMWATER
OVERFLOW PROFILE

DRAWING NO.:
C6.1

SHEET NO. 7 OF 7

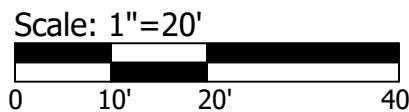


NOTE: ALL PVC PIPE IS SDR-35 OR EQUIVALENT
ALL RCP SHALL CLASS IV WALL B OR C
UNLESS UNDER TRACKS WHICH SHALL BE
CLASS V.

STORMWATER PIPE PROFILE

SCALE: 1"=20' HOR.
SCALE: 1"=4' VER.

ITS WEIRD THAT
YOU DON'T HAVE
THE SAME SCALE
AS YOUR PLANS
WHICH ARE AT
30-SCALE.



GENERAL COMMENTS:
1. YOUR PROFILE DOESNT SHOW
ANY CROSSING UTILITIES. SHOW
THSE TO ENSURE THERE ARE
NOT DIRECT INVERT CONFLICTS.