

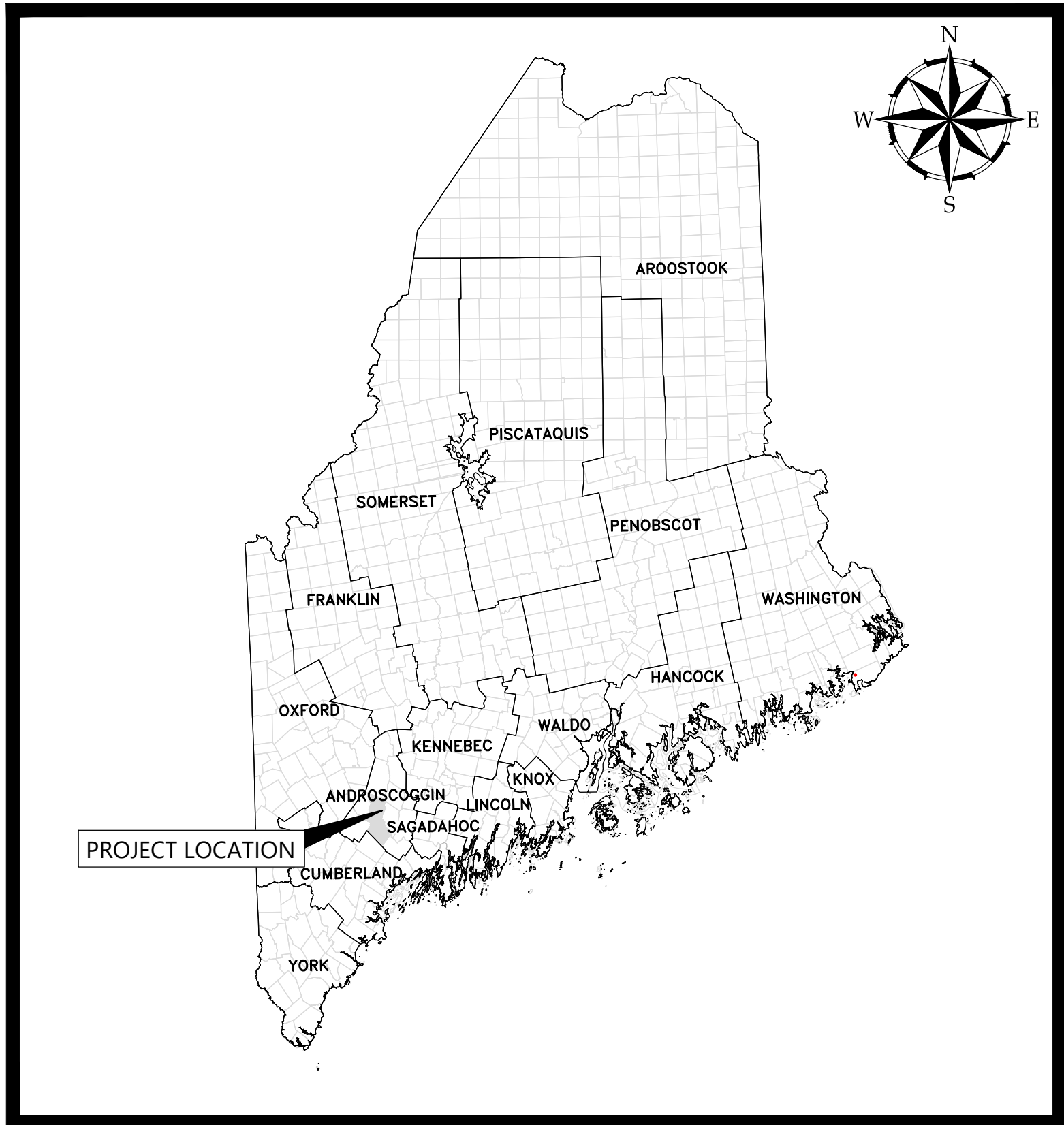
CITY OF AUBURN

AUBURN, MAINE

STETSON ROAD CULVERT REPLACEMENT

ISSUED FOR BID

APRIL 2025



PROJECT LOCATION MAP

DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
G-0-001	COVER SHEET
C-0-001	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
C-0-101	EXISTING CONDITIONS SITE DEMOLITION PLAN & PROFILE
C-0-102	STETSON ROAD PROPOSED PLAN & PROFILE
C-0-103	BOBBIN MILL BROOK PROPOSED PLAN & PROFILE
C-99-901	DETAILS - 1
C-99-902	DETAILS - 2
C-99-903	DETAILS - 3
C-99-904	DETAILS - 4



SITE LOCATION MAP

SOURCE: USGS TOPO QUADRANGLE

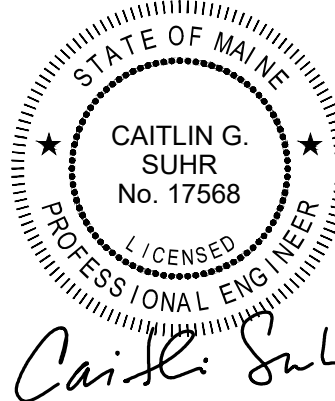


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CLIENT INFO:

CITY OF AUBURN
AUBURN, MAINE

STETSON ROAD
CULVERT REPLACEMENT

REV	MM/DD/YY	DESCRIPTION
-----	----------	-------------

JOB NO:	0233981.25
DATE:	APRIL 2025
SCALE:	NONE
DESIGNED BY:	KLR/HKS
DRAWN BY:	JBC
CHECKED BY:	CGS
FILENAME:	0233981.25-G-001.dwg

DRAWING TITLE:
**GENERAL
COVER SHEET**

DRAWING NO:

G-0-001

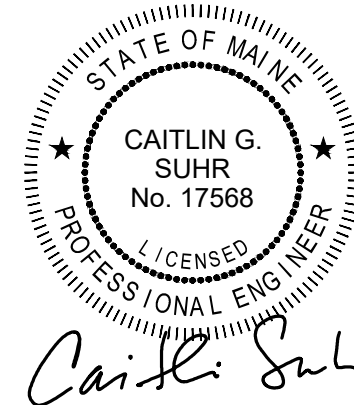


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AUBURN, MAINE

STETSON ROAD
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JOB NO: 0233981.25
DATE: APRIL 2025
SCALE: AS NOTED
DESIGNED BY: KLR/HKS
DRAWN BY: JBC
CHECKED BY: CGS
FILENAME: 0233981.25-C-0-101.dwg

DRAWING TITLE:

**CIVIL
EXISTING CONDITIONS
SITE DEMOLITION
PLAN & PROFILE**

DRAWING NO:

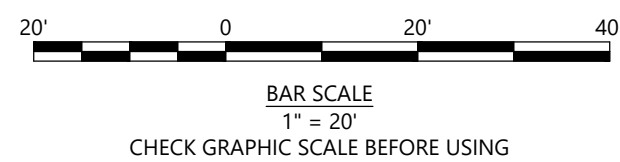
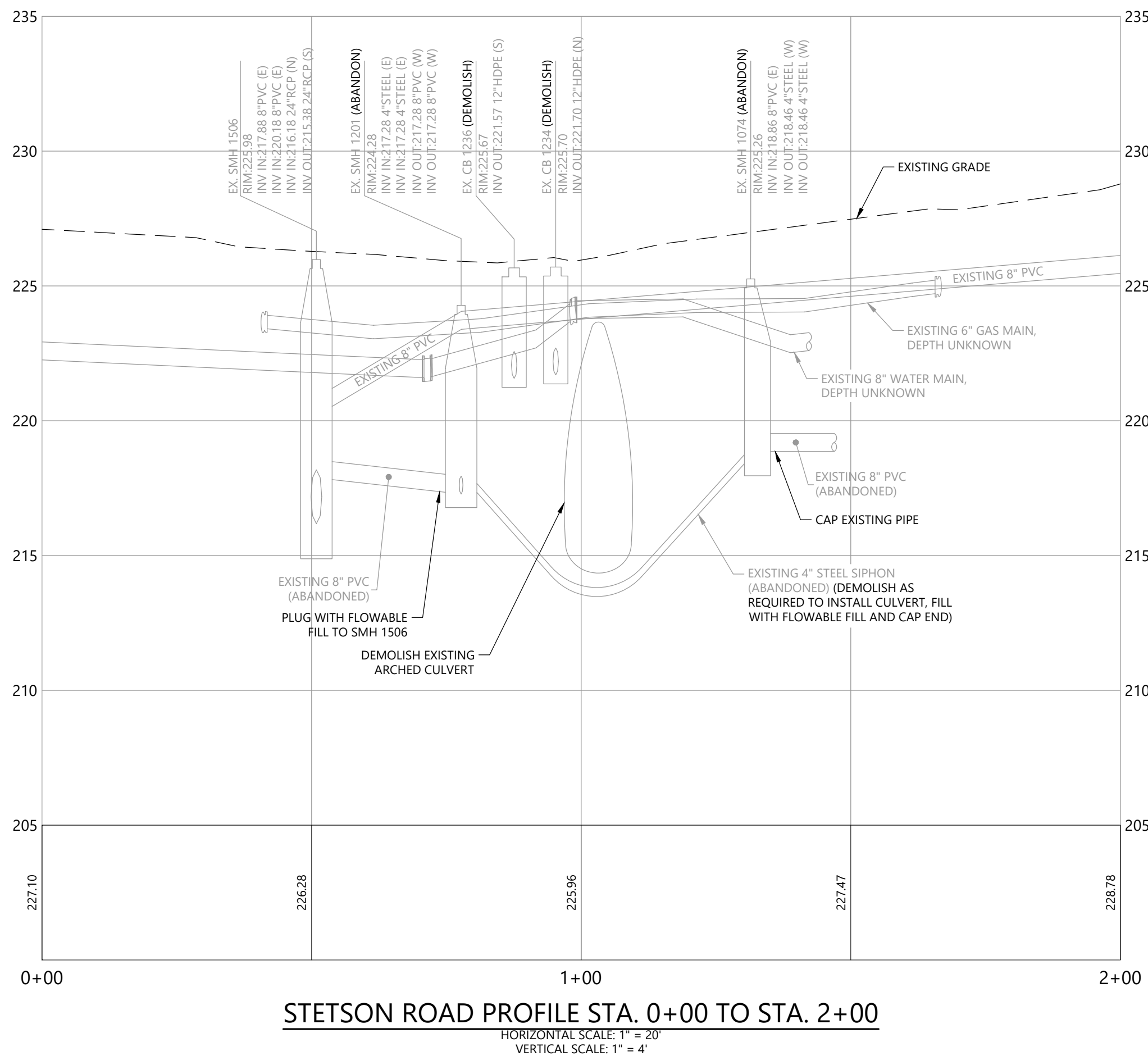
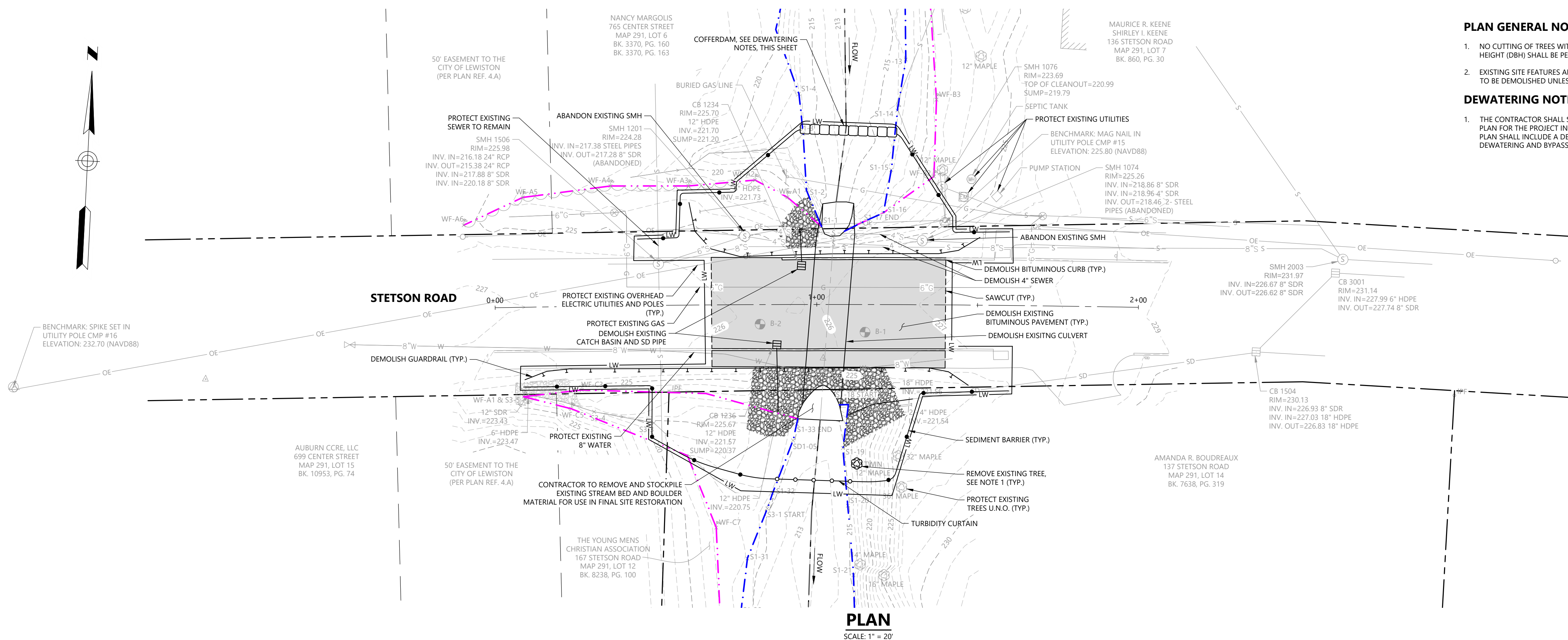
C-0-101

PLAN GENERAL NOTES

- NO CUTTING OF TREES WITH GREATER THAN 3" DIAMETER AT BREST HEIGHT (DBH) SHALL BE PERMITTED IN JUNE OR JULY.
- EXISTING SITE FEATURES AND UTILITIES SHOWN IN BLACK ON THIS PLAN TO BE DEMOLISHED UNLESS NOTED OTHERWISE.

DEWATERING NOTES

- THE CONTRACTOR SHALL SUBMIT A WATER CONTROL MANAGEMENT PLAN FOR THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROPOSED PROCEDURES FOR DEWATERING AND BYPASSING THE STREAM DURING CONSTRUCTION.



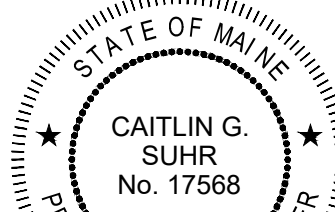


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Caitlin G. Suhr

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DRAWN BY: JBC
CHECKED BY: CGS
FILENAME: 0233981.25-C-0-102.dwg

DRAWING TITLE:

CIVIL
STETSON ROAD
PROPOSED
PLAN & PROFILE

DRAWING NO:

C-0-102

PLAN GENERAL NOTES

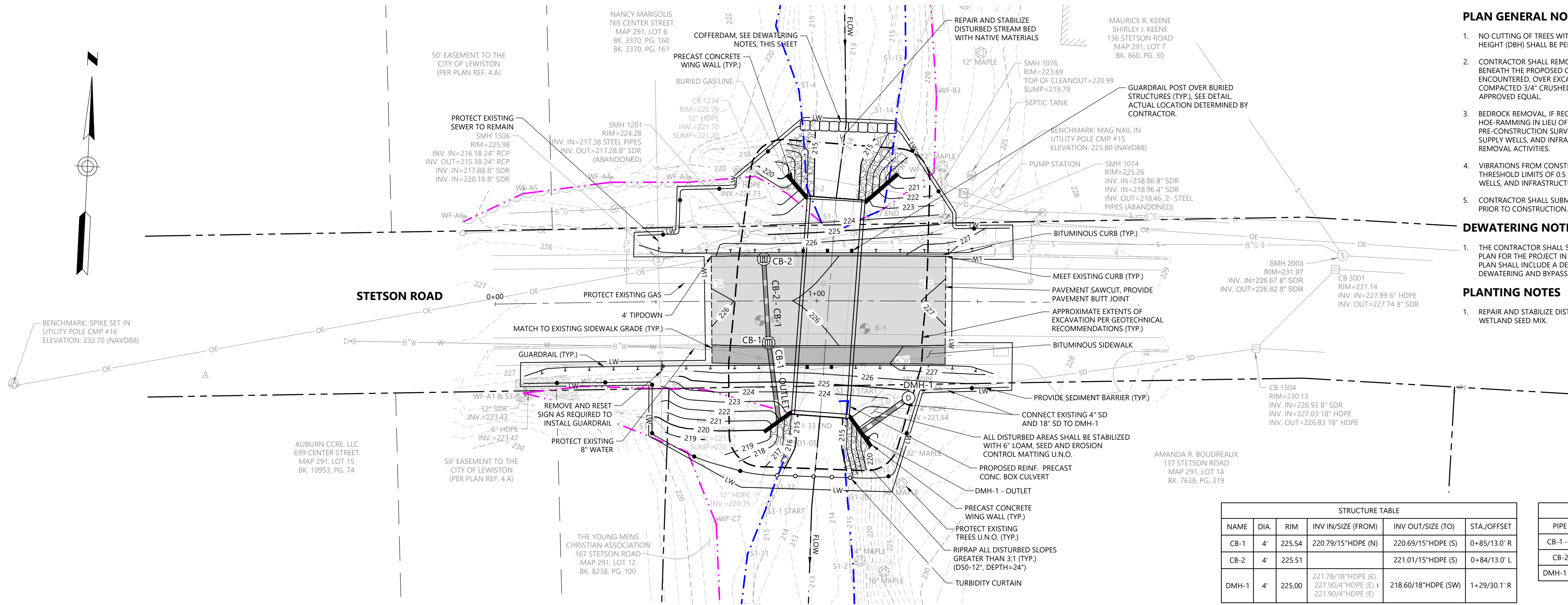
- NO CUTTING OF TREES WITH GREATER THAN 3" DIAMETER AT BREST HEIGHT (DBH) SHALL BE PERMITTED IN JUNE OR JULY.
- CONTRACTOR SHALL REMOVE ANY WOOD AND ORGANICS ENCOUNTERED BENEATH THE PROPOSED CULVERT UNTIL NATIVE SOILS ARE ENCOUNTERED. OVER EXCAVATIONS SHALL BE BACKFILLED WITH COMPACTED 3/4" CRUSHED STONE WRAPPED IN MIRAFI 180N OR APPROVED EQUAL.
- BEDROCK REMOVAL, IF REQUIRED, SHALL BE PERFORMED BY HYDRAULIC HOE-RAMMING IN LIEU OF BLASTING. CONTRACTOR SHALL COMPLETE A PRE-CONSTRUCTION SURVEY ON SURROUNDING STRUCTURES, WATER SUPPLY WELLS, AND INFRASTRUCTURE PRIOR TO COMMENCING BEDROCK REMOVAL ACTIVITIES.
- VIBRATIONS FROM CONSTRUCTION SHALL BE CONTROLLED BELOW THRESHOLD LIMITS OF 0.5 IN/SEC FOR STRUCTURES, WATER SUPPLY WELLS, AND INFRASTRUCTURE WITHIN 500 FEET OF THE PROJECT SITE.
- CONTRACTOR SHALL SUBMIT AN EXCAVATION PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.

DEWATERING NOTES

- THE CONTRACTOR SHALL SUBMIT A WATER CONTROL MANAGEMENT PLAN FOR THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROPOSED PROCEDURES FOR DEWATERING AND BYPASSING THE STREAM DURING CONSTRUCTION.

PLANTING NOTES

- REPAIR AND STABILIZE DISTURBED WETLANDS. REVEGETATE USING WETLAND SEED MIX.

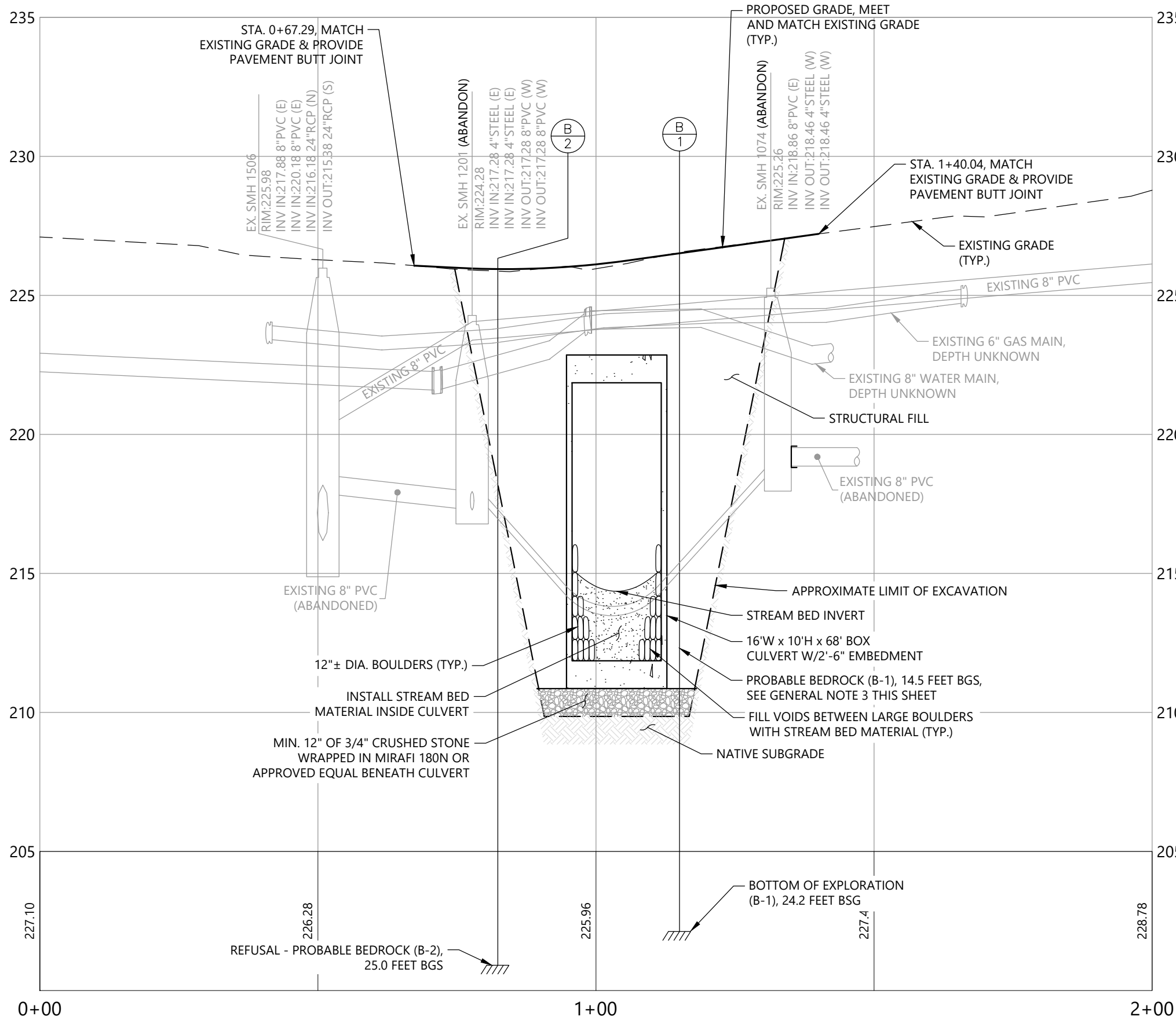


PLAN

SCALE: 1" = 20'

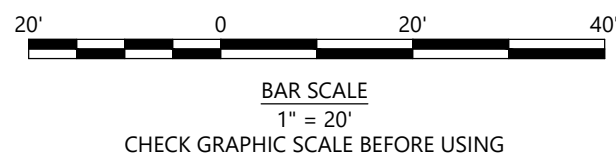
STRUCTURE TABLE					
NAME	DIA.	RIM	INV IN/SIZE (FROM)	INV OUT/SIZE (TO)	STA./OFFSET
CB-1	4'	225.54	220.79/15"HDPE (N)	220.69/15"HDPE (S)	0+85/13.0' R
CB-2	4'	225.51		221.01/15"HDPE (S)	0+84/13.0' L
DMH-1	4'	225.00	221.78/18"HDPE (E) 221.90/4"HDPE (E) I 221.90/4"HDPE (E)	218.60/18"HDPE (SW)	1+29/30.1' R

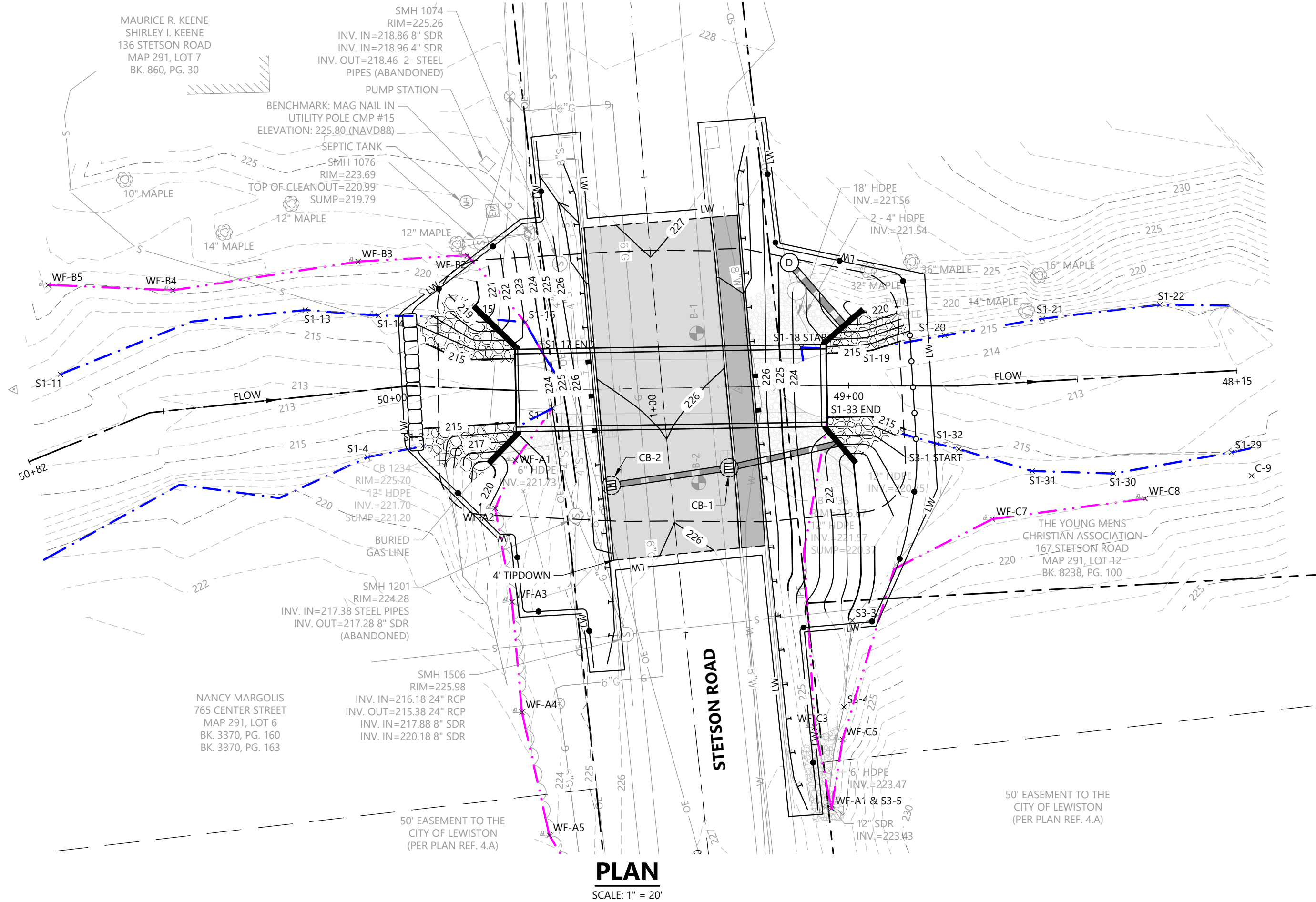
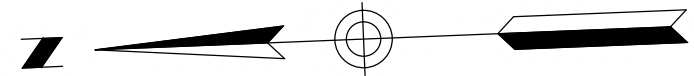
PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
CB-1 - OUTLET	15" HDPE	23'	0.1170
CB-2 - CB-1	15" HDPE	22'	0.0100
DMH-1 - OUTLET	18" HDPE	17'	0.0059



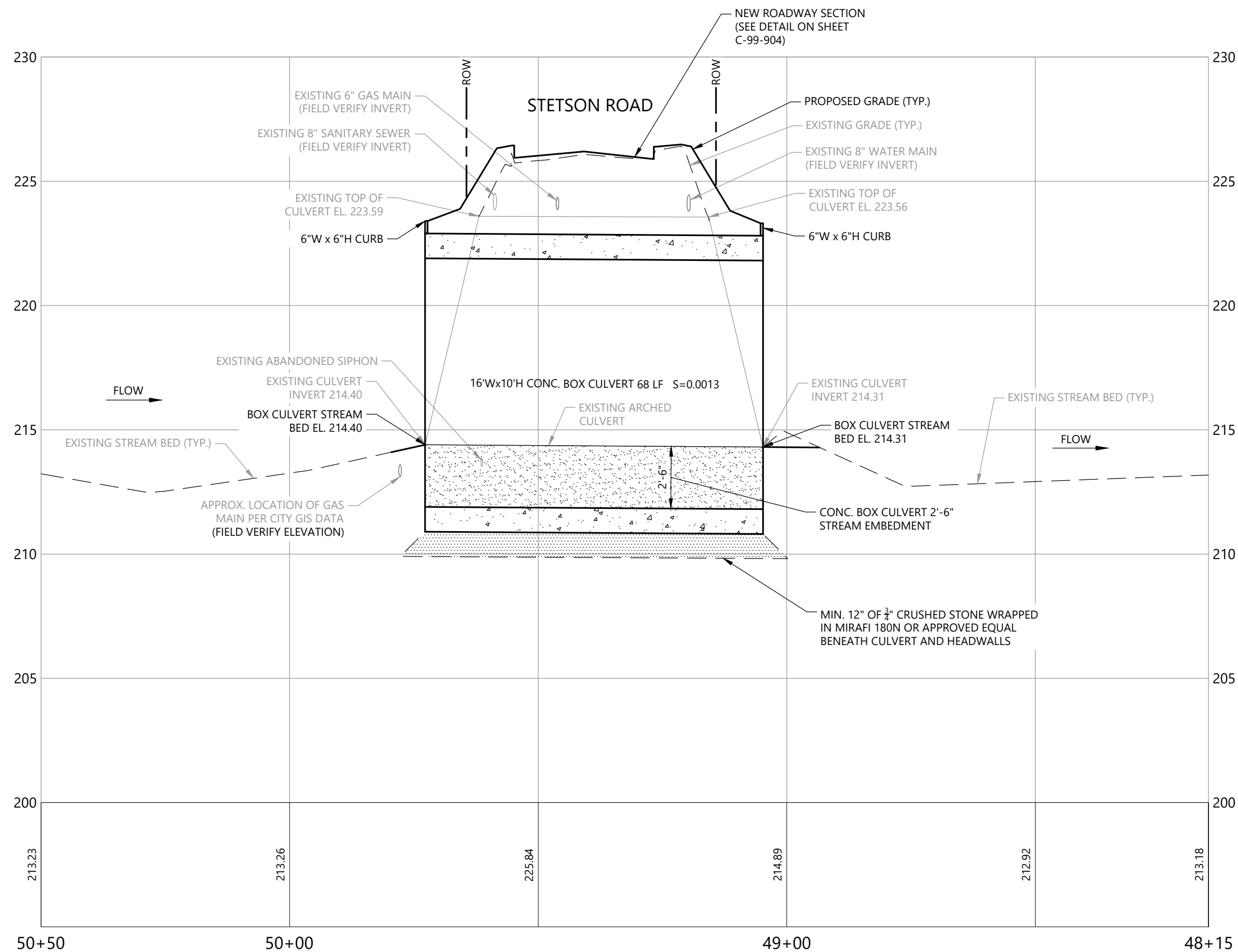
STETSON ROAD PROFILE STA. 0+00 TO STA. 2+00

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'





PLAN
SCALE: 1" = 20'



BOBBIN MILL BROOK PROFILE STA. 48+15 TO STA. 50+50

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

NOTE:

- PER THE GEOTECHNICAL REPORT RECOMMENDATIONS, OVEREXCAVATE BELOW BOX CULVERT SUBGRADE AS REQUIRED TO REMOVE ALL EXISTING FILL, WOOD, ORGANICS, STRUCTURES, AND UTILITIES UNTIL UNDISTURBED, NON-ORGANIC, NATIVE SOILS ARE ENCOUNTERED. SEE GEOTECHNICAL REPORT RECOMMENDATIONS FOR LATERAL EXTENT OF REMOVAL. BACKFILL WITH COMPACTED CRUSHED STONE WRAPPED IN MIRAFI 180N OR APPROVED EQUAL.

PLANTING NOTES

- REPAIR AND STABILIZE DISTURBED WETLANDS. REVEGETATE USING WETLAND SEED MIX.

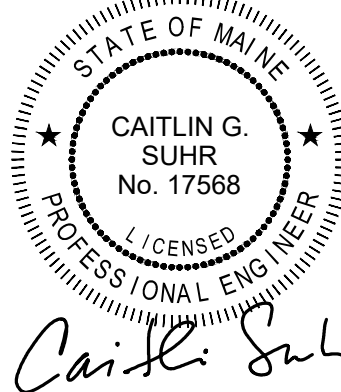


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STETSON ROAD
CULVERT REPLACEMENT

REV MM/DD/YY DESCRIPTION

JOB NO: 0233981.25
DATE: APRIL 2025
SCALE: AS NOTED
DESIGNED BY: KLR/HKS
DRAWN BY: JBC
CHECKED BY: CGS
FILENAME: 0233981.25-C-0-103.dwg

DRAWING TITLE:

**CIVIL
BOBBIN MILL BROOK
PROPOSED
PLAN & PROFILE**

DRAWING NO:

C-0-103



BAR SCALE
1" = 20'

CHECK GRAPHIC SCALE BEFORE USING



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EROSION AND SEDIMENTATION CONTROL NOTES

- THE PROJECT SHALL CONFORM WITH THE STANDARDS OF THE MAINE CONSTRUCTION GENERAL PERMIT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPs HANDBOOK PUBLISHED BY THE MAINE DEP UNLESS OTHERWISE NOTED IN THESE PLANS.
[HTTP://MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPs/](http://MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPs/)

Temporary Erosion Control Measures

Measure	Dates For Use	Timing, Activity, and Location
Sedimentation Barrier	ALL	Before soil disturbance, install downhill of areas to be disturbed and around material stockpiles.
Up-slope Diversion	ALL	Before soil disturbance, install uphill of areas to be disturbed and material stockpiles.
Catch Basin Protection	ALL	Before soil or pavement disturbance, install ACF Environmental, Inc. High Flow Siltsack, Siltsaver Inlet Filter, or equal, installed per manufacturer's requirements.
Dust Control	ALL	During dry weather, apply water and calcium chloride to control dust.
Temporary Seeding	April 15 to Oct. 1	Soil stockpiles that are not covered and disturbed areas that will not be disturbed again within 14 days. If grass growth provides less than 95% soil coverage by Nov. 1, apply mulch and anchor with erosion control blanket.
Mulch	April 15 to Sept. 15	On all areas of exposed soil prior to rain events or every 7 days, apply 100-150 lbs (2.5 bales) per 1,000 sq ft. by mechanical blower.
Winter Mulch	Sept. 16 to Oct. 31	On all areas of exposed soil prior to precipitation or every 7 days, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. by mechanical blower. Erosion control blanket may be used as a substitute for winter mulch.
	Nov. 1 to April 14	On all areas of exposed soil, apply 150 to 170 lbs. mulch (4 bales) per 1,000 sq. ft. and anchor with netting at the end of each working day. Erosion control blanket may be used as a substitute for winter mulch.
Inspections	Until site is permanently stabilized	Inspect the erosion and sedimentation control measures daily, and maintain and repair as necessary.

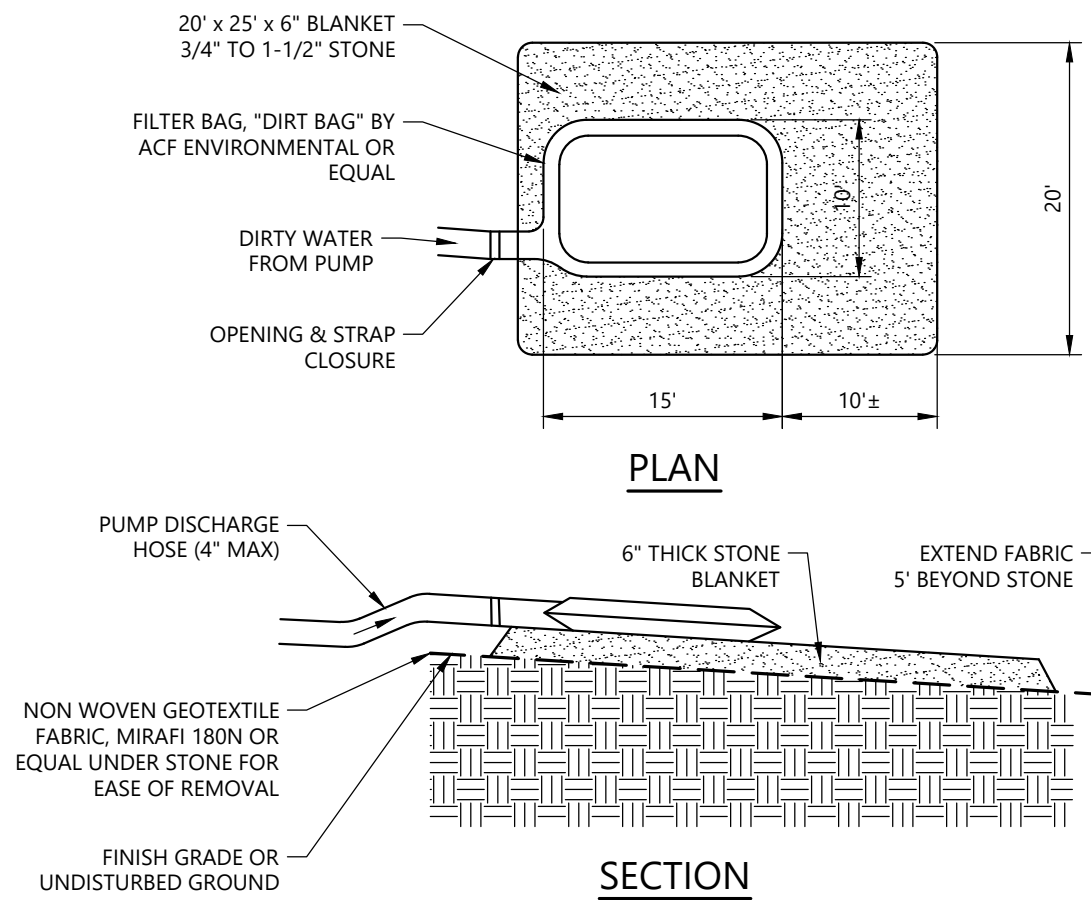
Permanent Erosion Control:

Measure	Dates For Use	Timing, Activity, and Location
Pavement - Base Course - Final Course	When no frost is in ground	Install only in areas shown on the plan, shortly after pavement base is brought to final grade. Install near completion of project.
Permanent Seeding	April 15 to Sept. 15	On final grade areas, within 7 days of grade preparation, prepare topsoil, followed by seed and mulch application.
Dormant Seeding	Sept. 16 to April 15	On final grade areas, with prepared topsoil. Apply seed at double the specified rate on bare soil, and follow with an application of winter mulch.
Ground Cover, Trees, Shrubs	April 15 to Nov. 1	Install with final landscaping.
Permanent Mulch	ALL	Install with final landscaping.

Inspections:

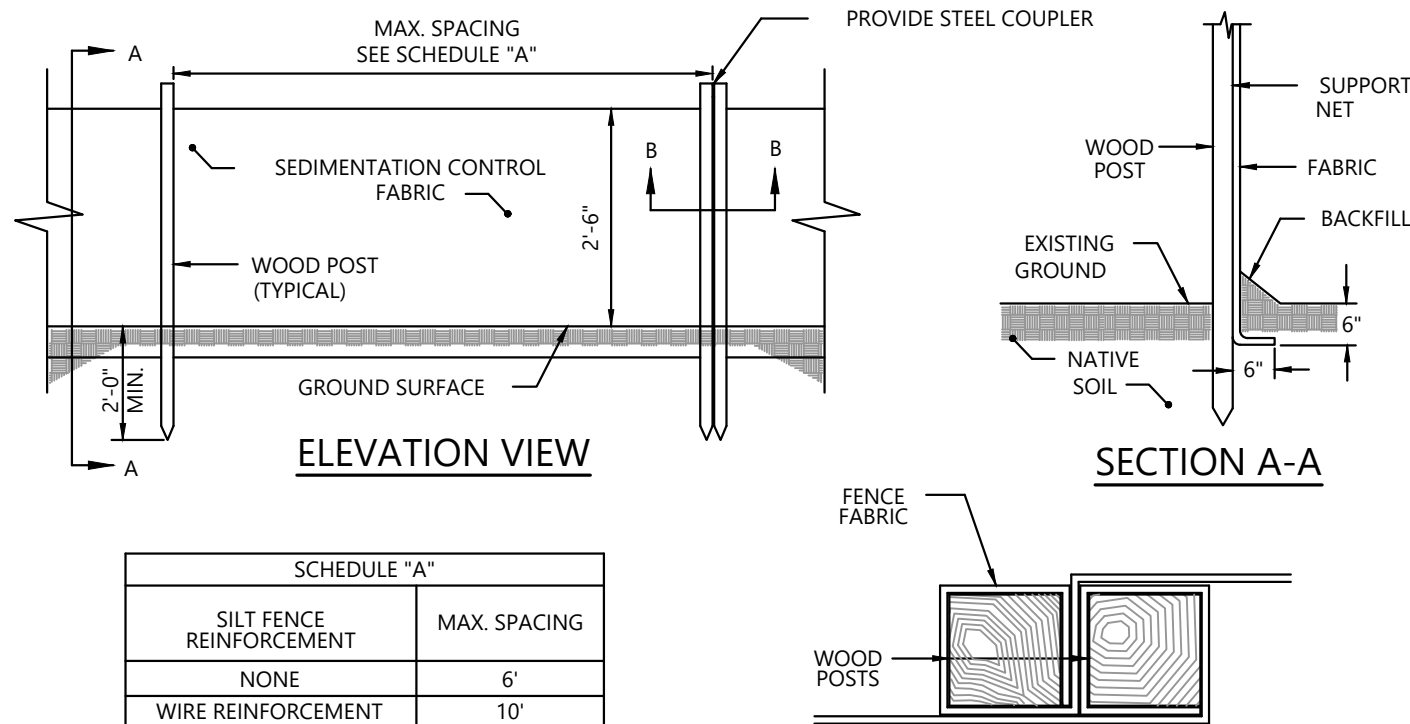
Regular inspections of all erosion and sedimentation controls shall be made at least weekly and prior to and following storm events. Minimum inspections shall be made as listed in the table below.

Inspected Item	Look For
Mulched Surfaces	Thin mulch or inadequate application. Wind movement.
Seeded Surfaces	Poor seed germination. Loss of mulch. Development of rivelets.
Sediment Barrier	Sediment build-up to one half the height of the barrier. Undermining of the barrier. Supporting stakes loose, toppled, or unmarked. Breaks in barrier.
Perimeter Diversion	Discharge is to stabilized area. Erosion or breaks in barrier. Supporting stakes loose, toppled or unmarked.
Catch Basin Protection	Sediment build-up and structure blockages. Slow flow/Ponding water. Breaks in fabric or voids in barrier.
Dewatering Filter	Breaks in fabric or supporting structure. Slow flow, indicating high sediment build-up.
Construction Entrance	Sedimentation of roadways. Off-site dust complaints.



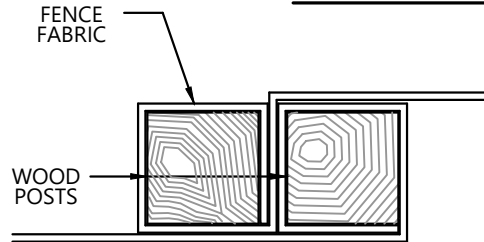
**DEWATERING DISCHARGE
SEDIMENT CONTROL DEVICE**

NOT TO SCALE



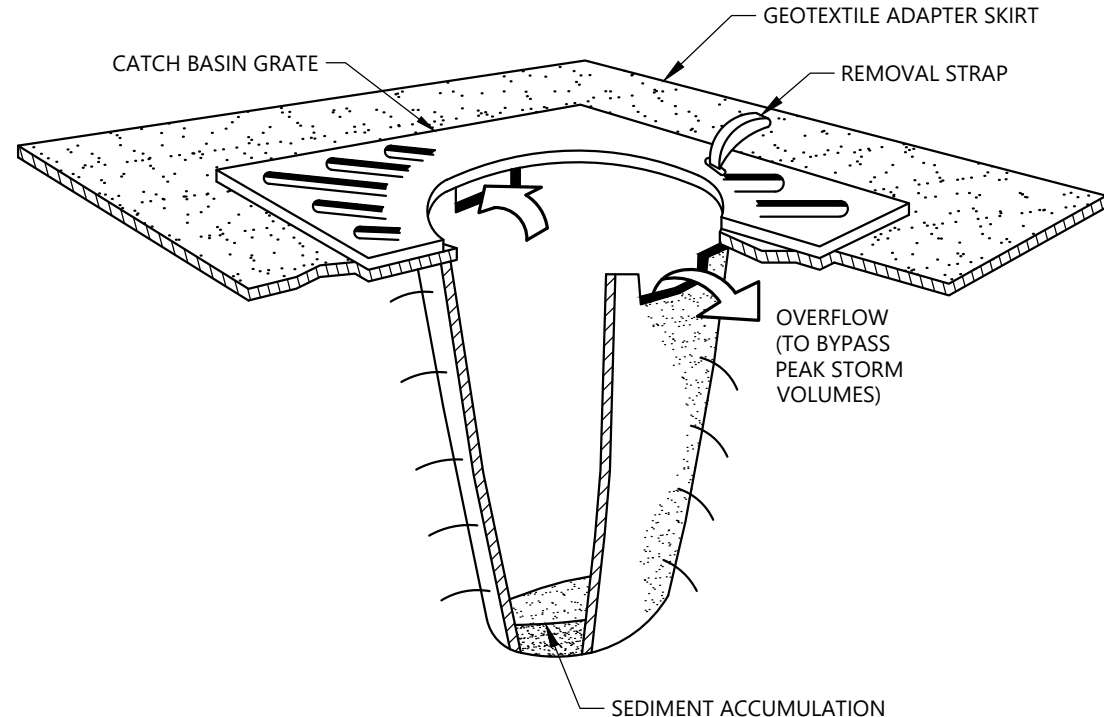
SCHEDULE "A"	
SILT FENCE REINFORCEMENT	MAX. SPACING
NONE	6'
WIRE REINFORCEMENT 14 GAUGE, 6" MESH	10'

SECTION B-B



SILTATION FENCE

NOT TO SCALE

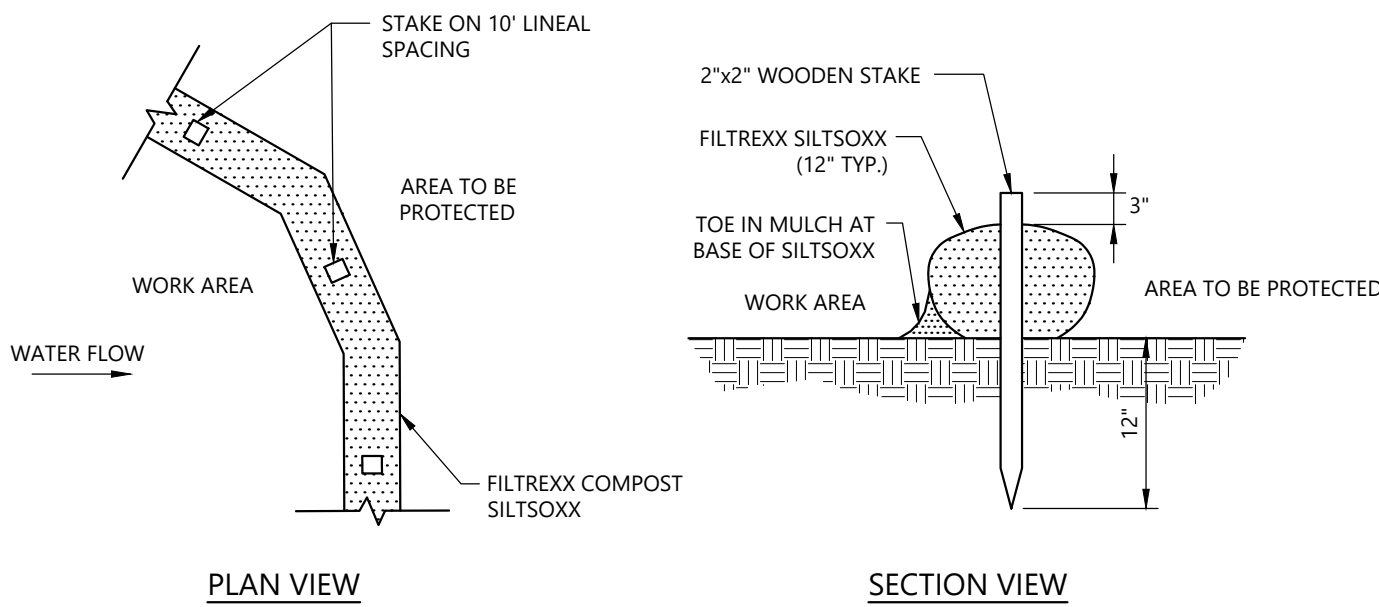


NOTES:

- CATCH BASIN PROTECTION TO BE "SILTSACK" (BY ACF ENVIRONMENTAL).
- INSERT TO BE EMPTIED IN AN APPROVED MANNER WHEN IT IS 1/2 FULL OF SEDIMENT.
- INSPECT INSERT AFTER ALL RAINFALL EVENTS, REPAIR AND MAINTAIN AS REQUIRED.

TEMPORARY INLET PROTECTION

NOT TO SCALE

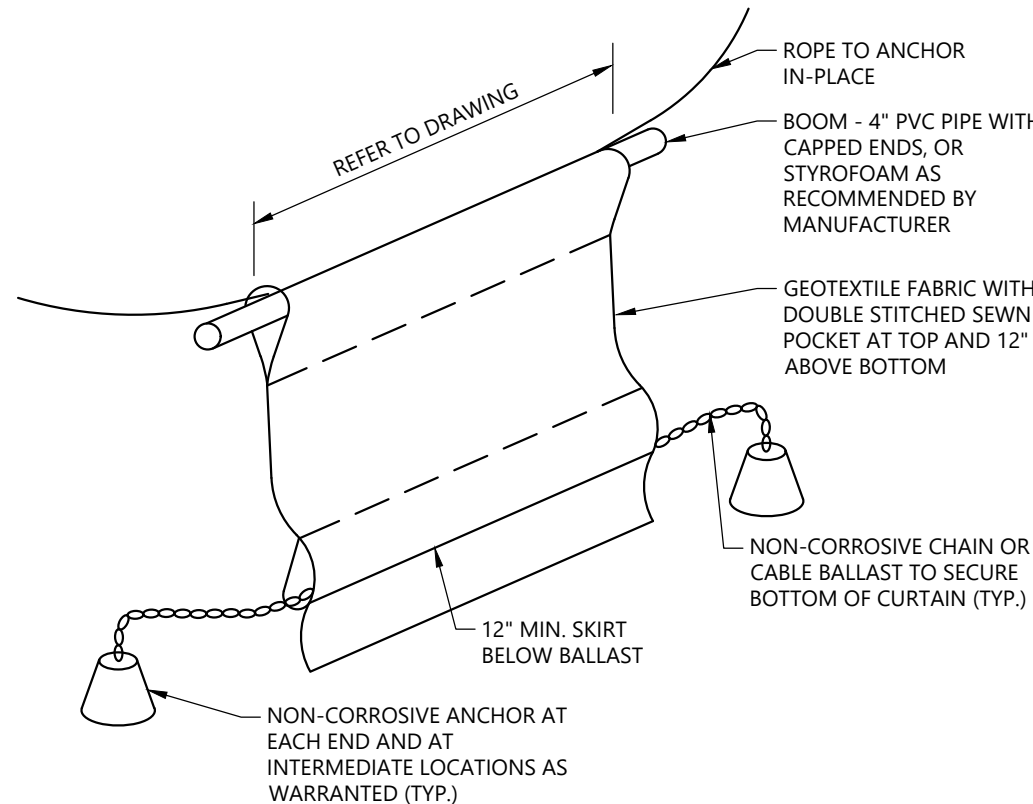


NOTE:

- WHEN STAKING IS NOT POSSIBLE, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.

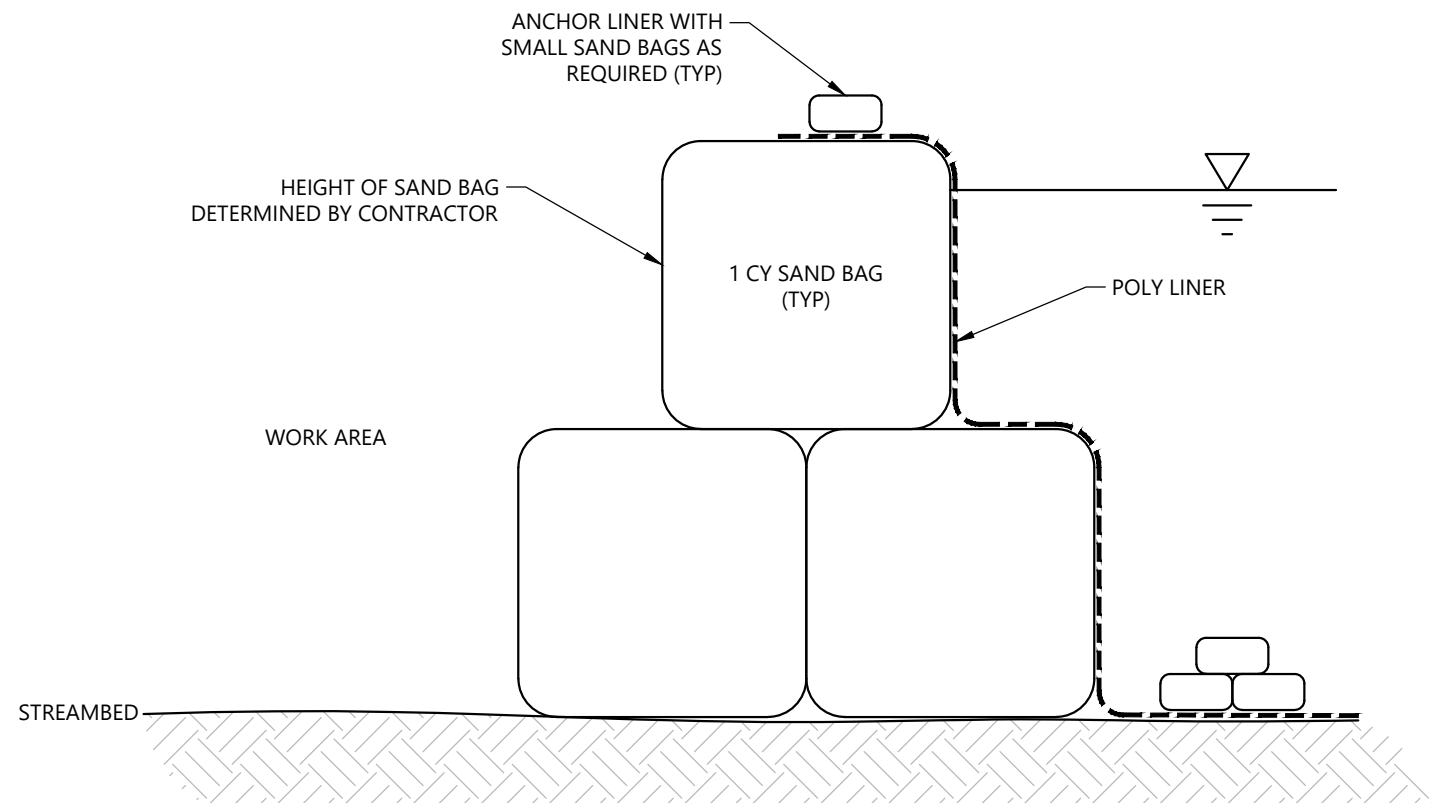
SILTATION BARRIER - SILTSOXX

NOT TO SCALE



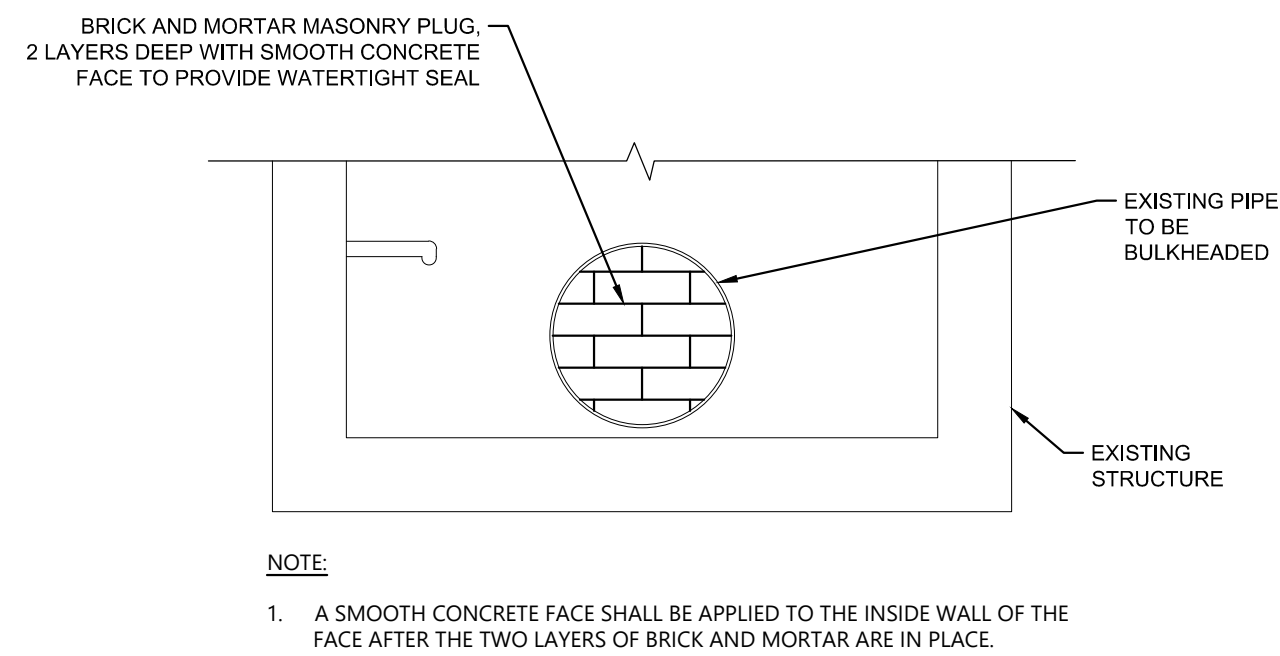
TURBIDITY CURTAIN

NOT TO SCALE

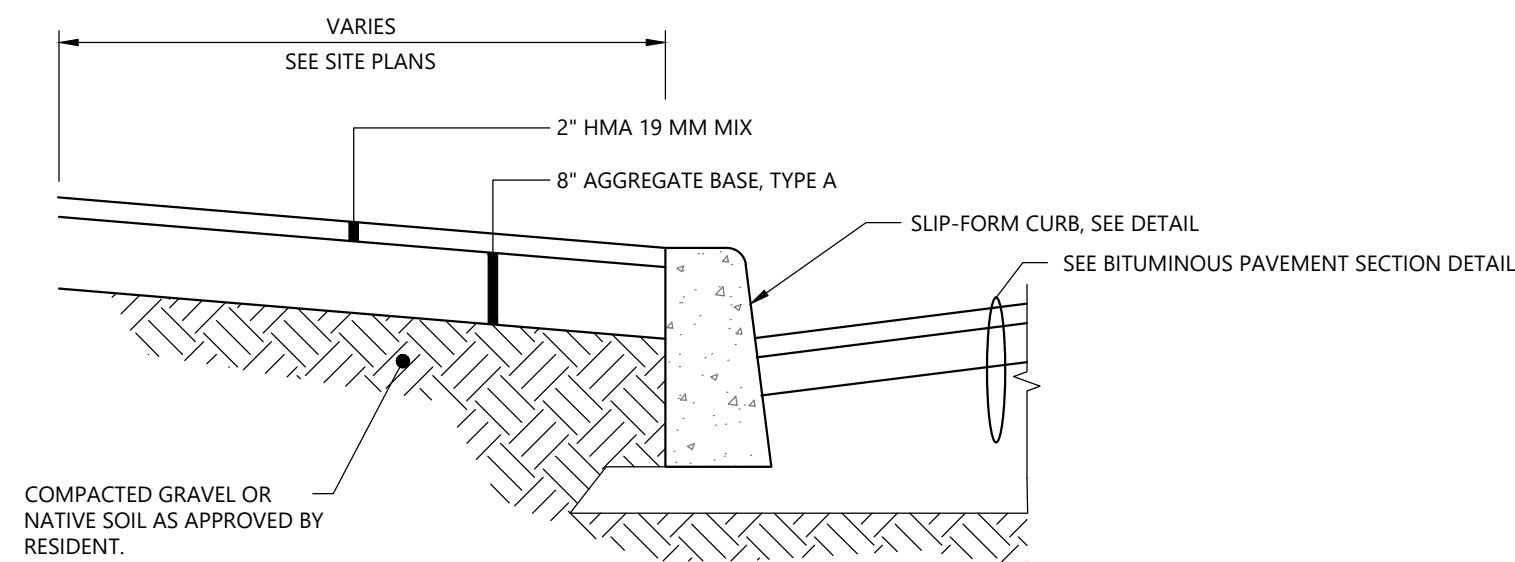


SAND BAG COFFER DAM

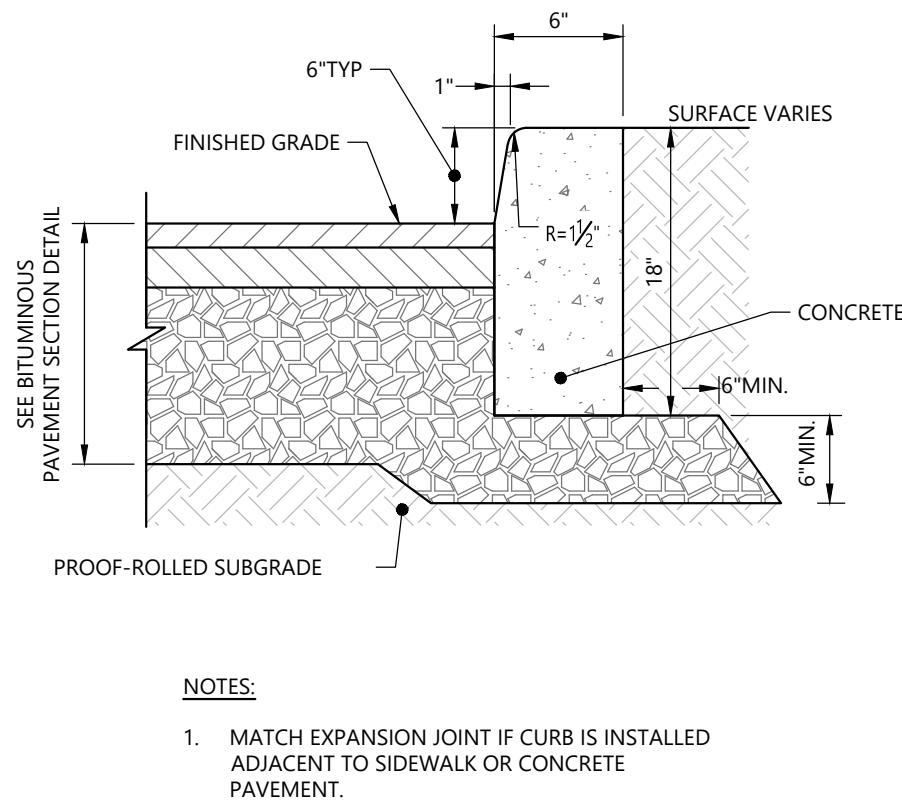
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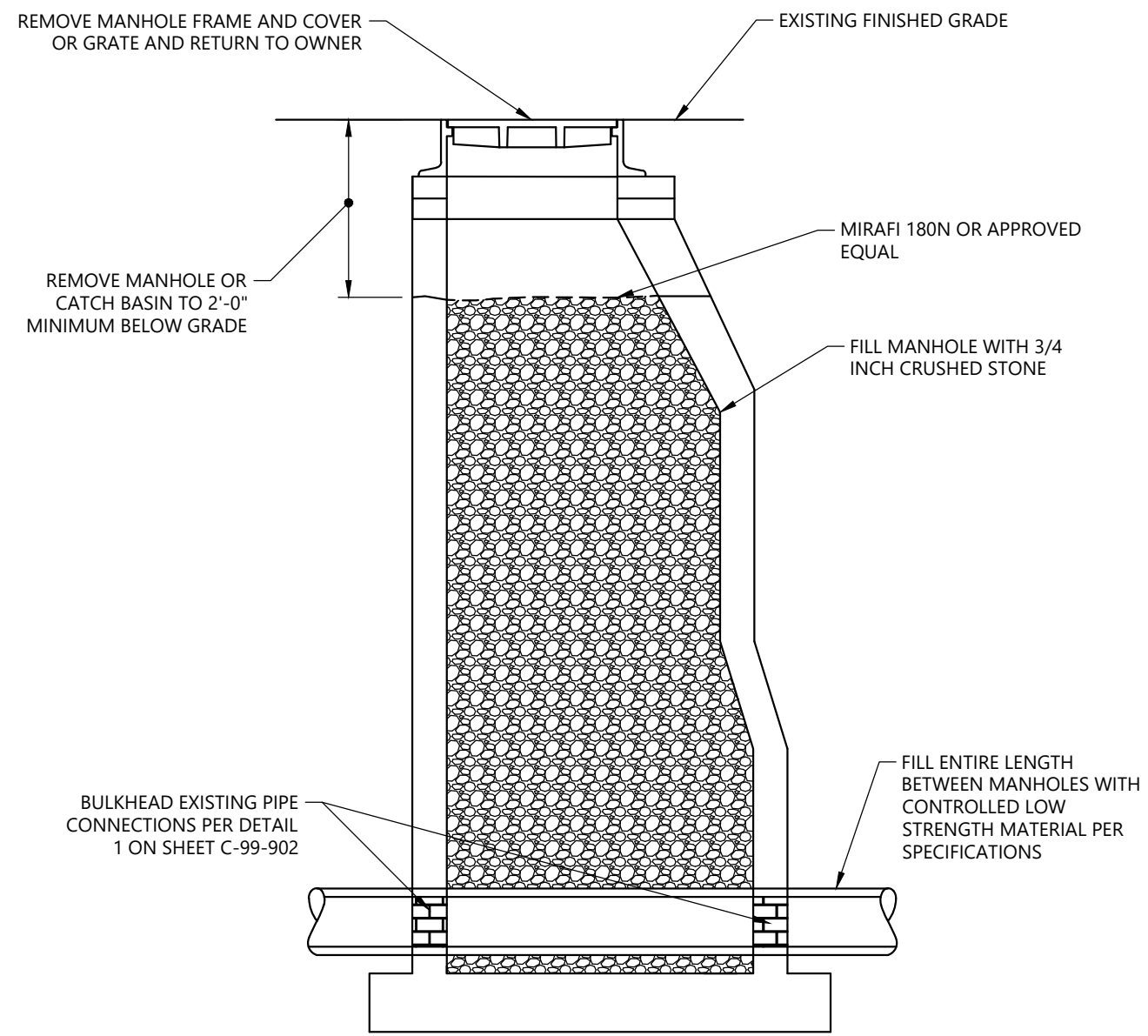
1 **TYPICAL BULKHEAD DETAIL**
NOT TO SCALE



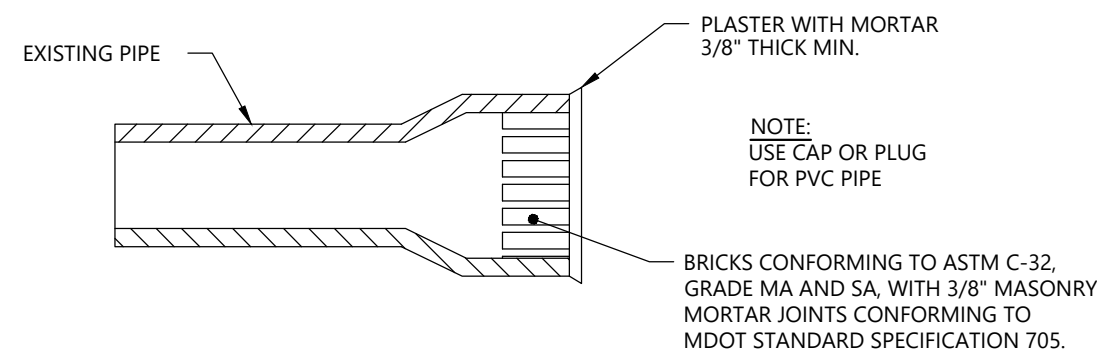
2 BITUMINOUS SIDEWALK
NOT TO SCALE



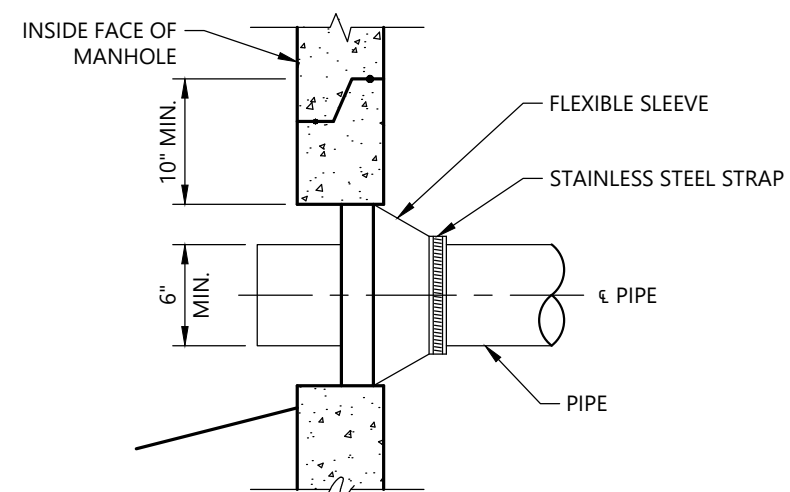
3 **SLIP-FORM CONCRETE CURB**
NOT TO SCALE



**STORM DRAIN - SANITARY SEWER MANHOLE
- CATCH BASIN AND PIPE ABANDONMENT**



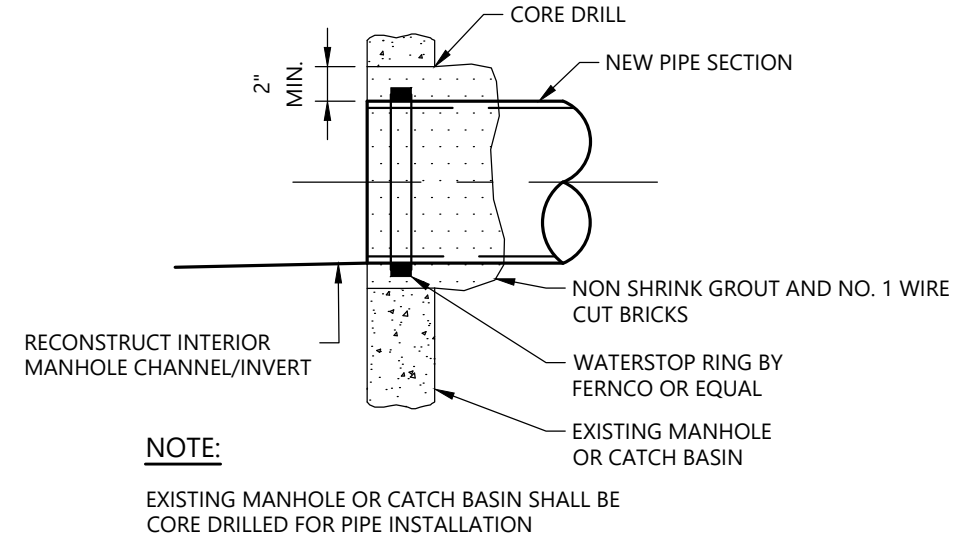
MASONRY PLUG DETAIL
NOT TO SCALE



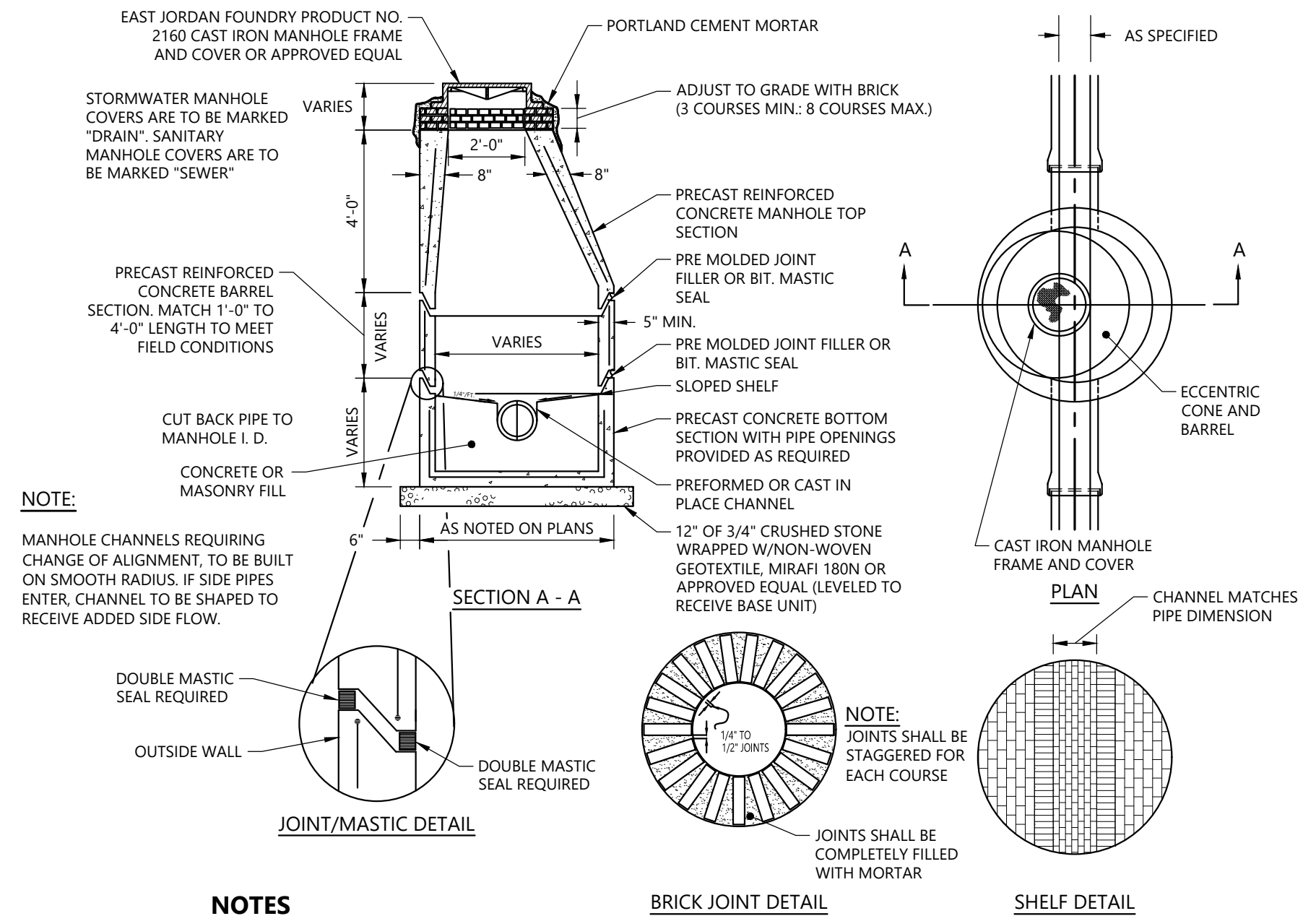
**NEW PIPE TO NEW PRECAST
STRUCTURE CONNECTION DETAIL**

6

NOT TO SCALE



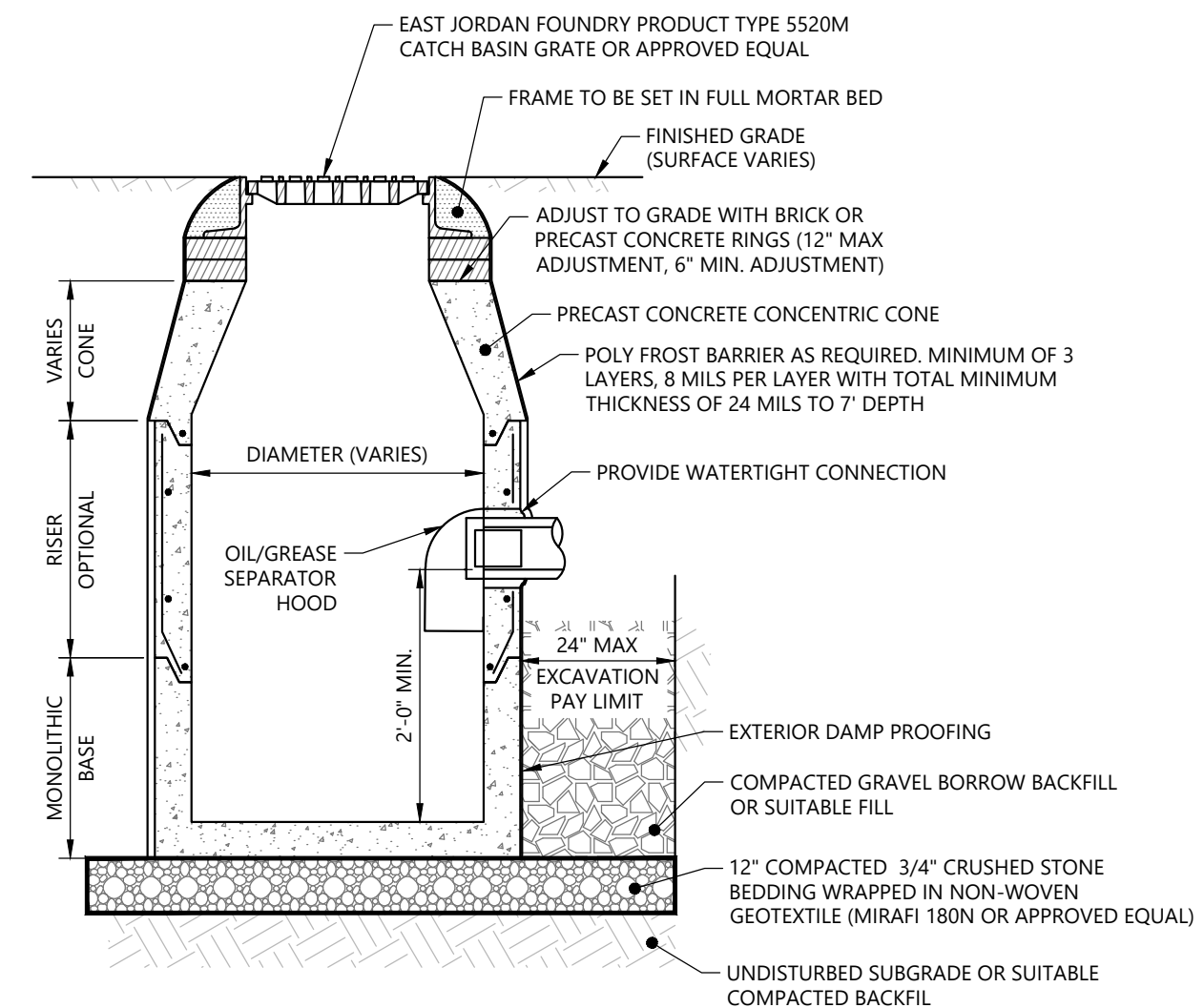
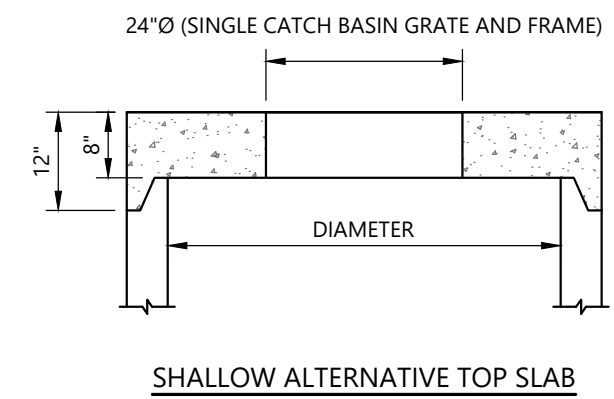
NEW PIPE TO EXISTING STRUCTURE
NOT TO SCALE



NOTES

1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
3. ALTERNATE TOP SLAB OR SECTION MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.

8 PRECAST CONCRETE MANHOLE
NOT TO SCALE



NOTES

1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
3. ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
5. DOUBLE CAST BASIN FRAME AND GRATE SHALL BE INSTALLED ON A MINIMUM 5'-0" DIAMETER TOP SLAB.
6. PROVIDE MINIMUM 24" DIAMETER OPENING.
7. PROVIDE ANTIFLOATATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTIFLOATATION REQUIREMENTS.

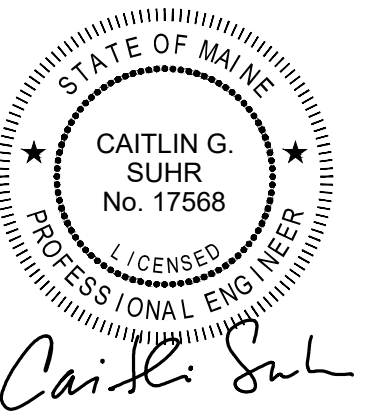
9 **PRECAST CONCRETE CATCH BASIN**
NOT TO SCALE



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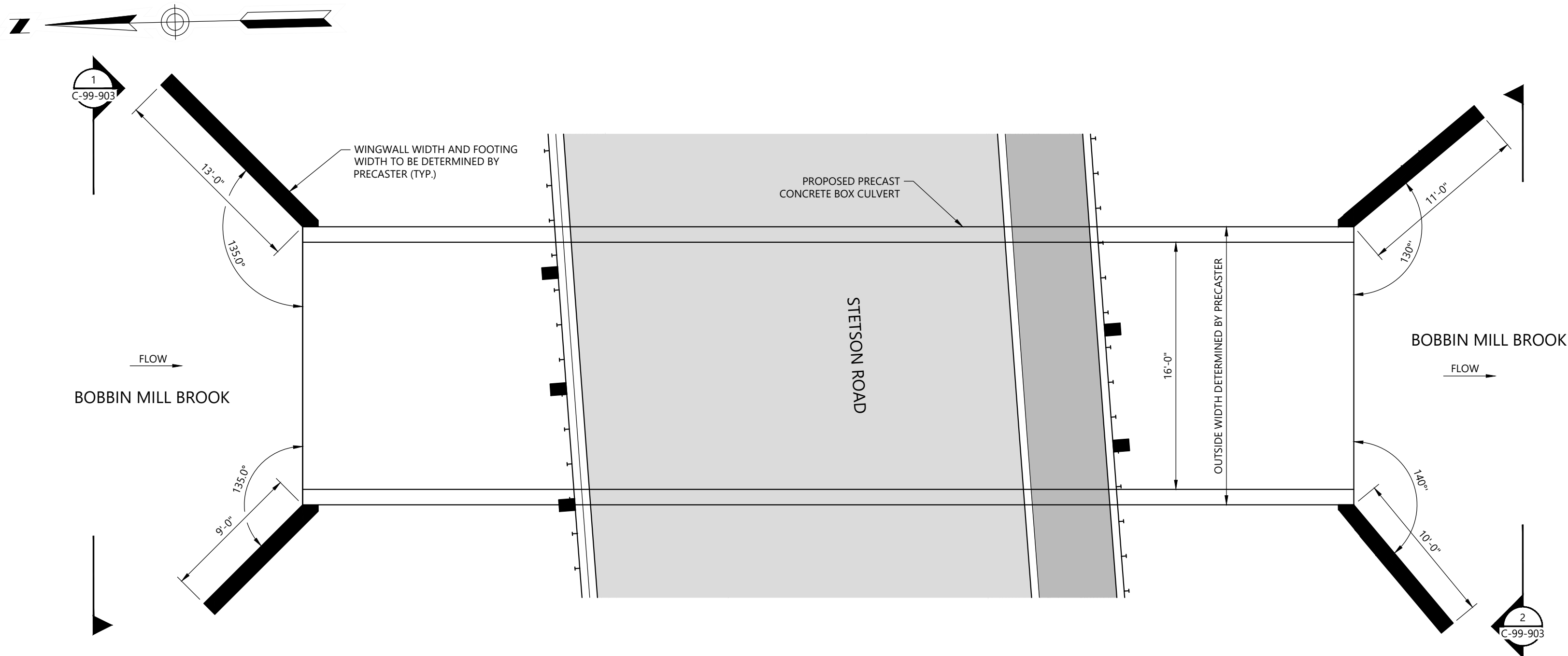
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FILENAME:	0233981.25-C-9-DETAILS.dwg	

DRAWING TITLE:

CIVIL

DETAILS - 2

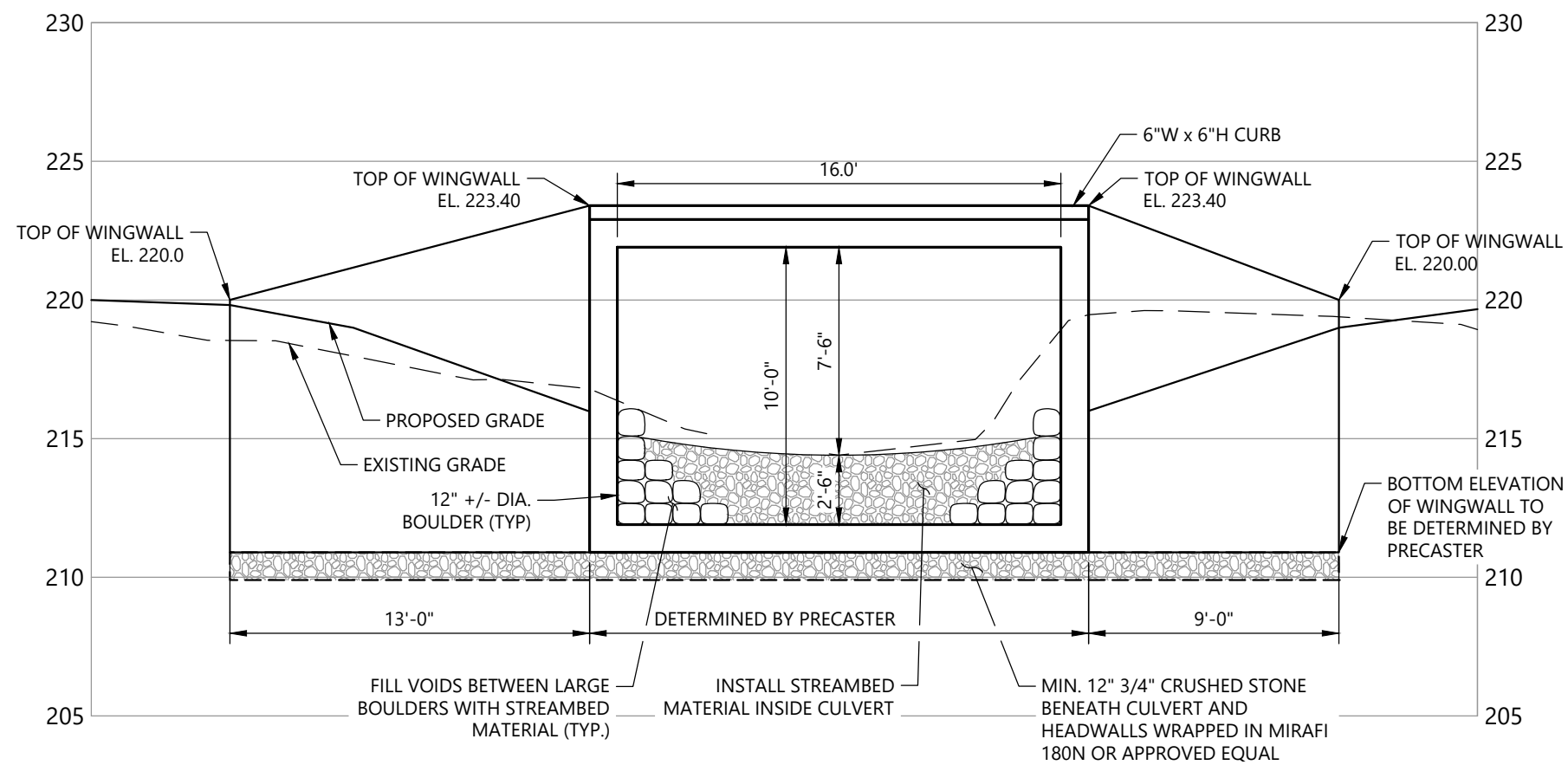
DRAWING NO:
C-99-902



STETSON ROAD CULVERT PLAN
NOT TO SCALE

BOX CULVERT NOTES

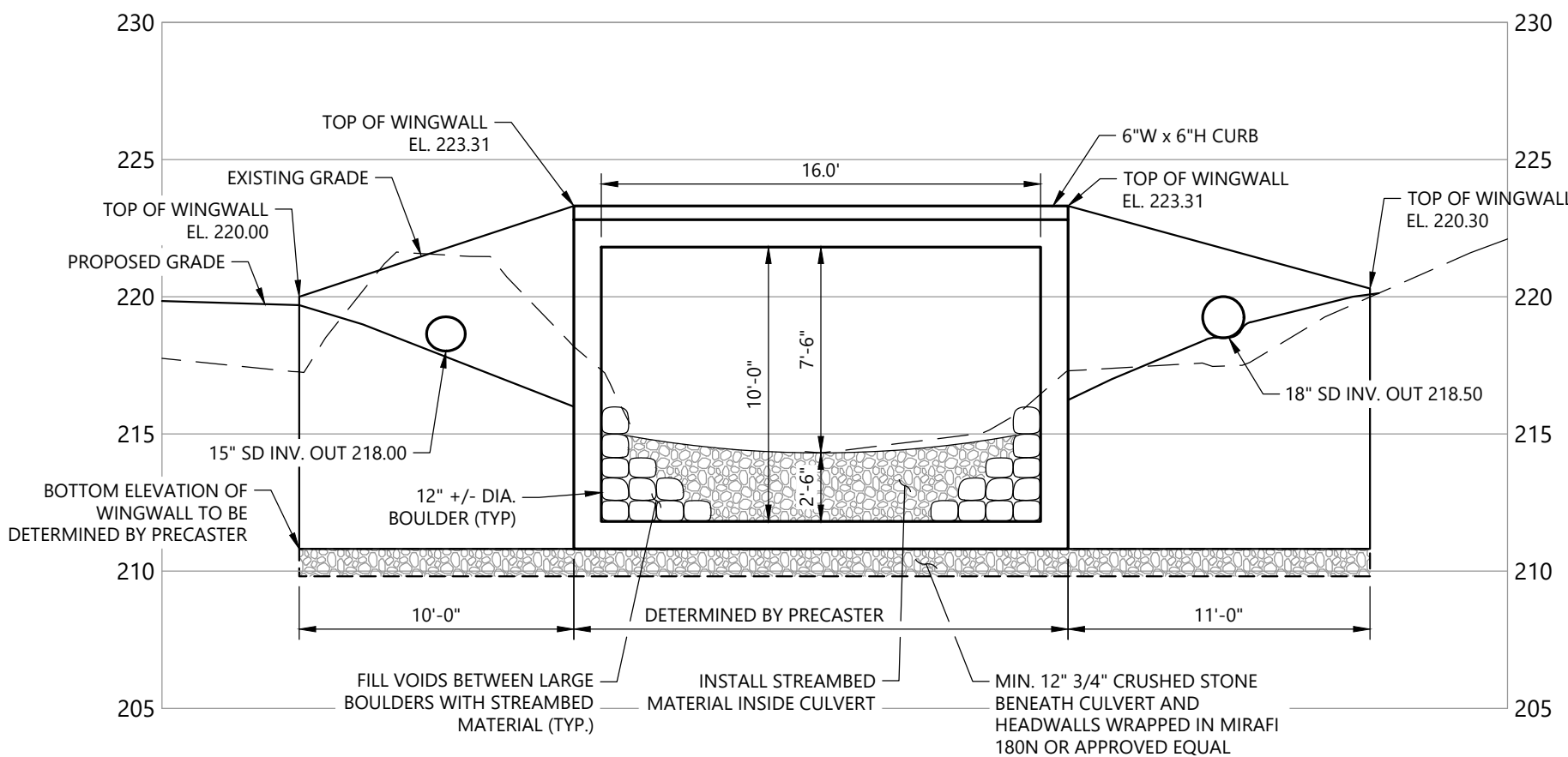
1. THE PRE-CAST CONCRETE BOX CULVERT SHALL BE DESIGNED AND MANUFACTURED BY AN EXPERIENCED CONCRETE BOX CULVERT MANUFACTURER AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE MANUFACTURER WITH REGARD TO ORDERING, MANUFACTURING, AND DELIVERING THE BOX CULVERT SECTIONS TO THE SITE. THE CONTRACTOR SHALL WORK WITH THE MANUFACTURER TO DEVELOP DETAILED SHOP DRAWINGS COMPLETE WITH DESIGN CALCULATIONS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO MANUFACTURE AND DELIVERY OF THE BOX CULVERT. THE DESIGN CRITERIA AND SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - DESIGNED TO MEET AASHTO HL-93 LOADS
 - 5,000 PSI, 28 DAY STRENGTH CONCRETE
 - GRADE 60 REBAR WITH 2" COVER ON ALL FACES
 - DCI CORROSION INHIBITOR ADDITIVE SHALL BE USED IN MIX DESIGN
 - PROVISION FOR LIFTING AND PLACING SECTIONS INTO PLACE (I.E. LIFTING RINGS, LIFTING HOLES, ETC.)
2. MEMBRANE WATERPROOFING WITH A WATERPROOFING PROTECTIVE COURSE SHALL BE USED WHERE ROADWAY PAVEMENT IS DIRECTLY ON THE STRUCTURE. USE BITUMINOUS DAMP-PROOFING WHERE ROADWAY PAVEMENT IS NOT DIRECTLY ON THE STRUCTURE.
3. THE HORIZONTAL AND VERTICAL HAUNCH DIMENSIONS SHALL BE EQUAL TO THE SIDEWALL THICKNESS IN INCHES. IF HAUNCHES WITH OTHER DIMENSIONS ARE USED, A SPECIAL REINFORCEMENT DESIGN FOR THE ACTUAL DIMENSIONS SHALL BE COMPLETED.
4. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE DESIGN PLANS WITH THE FIELD CONDITIONS PRIOR TO ORDERING THE BOX CULVERT. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BOX CULVERT IN GENERAL CONFORMITY TO THE LINES AND GRADES SHOWN ON THE DESIGN PLANS AND IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
6. ALL JOINTS SHALL BE SECURELY SEATED TOGETHER TO ACHIEVE A SILT-TIGHT JOINT ALL AROUND. A SILT-TIGHT JOINT IS DEFINED AS A JOINT IN WHICH THE GASKET IS COMPRESSED TO A MINIMUM OF ONE HALF OF ITS UNCOMPRESSED WIDTH. THE GASKET SHALL BE UNIFORMLY COMPRESSED ALONG ALL VERTICAL AND HORIZONTAL SURFACES. A POSITIVE MEANS, THROUGH THE USE OF SEATING DEVICES, SHALL BE USED FOR PULLING ONE SECTION AGAINST ANOTHER TO ASSURE AN ADEQUATE SILT-TIGHT JOINT. EACH JOINT BETWEEN TWO BOX CULVERT SECTIONS SHALL BE COVERED WITH A MINIMUM 12-INCH WIDE JOINT WRAP. THE WRAP SHALL MEET THE SPECIFICATIONS OF ASTM C-877. THE JOINT SHALL BE COVERED COMPLETE AROUND THE ENTIRE STRUCTURE.
7. INSTALLATION OF NEW BOX CULVERT SHALL OCCUR DURING DRY WEATHER OR DRY EXCAVATION CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ANY WATER DIVERSION AND MANAGEMENT REQUIRED.
8. CONTRACTOR TO VERIFY STREAMBED ELEVATION PRIOR TO SETTING STRUCTURE.



**PRECAST CULVERT WITH WINGWALL
(UPSTREAM SIDE)**

NOT TO SCALE

1
C-99-903



**PRECAST CULVERT WITH WINGWALL
(DOWNSTREAM SIDE)**

NOT TO SCALE

2
C-99-903

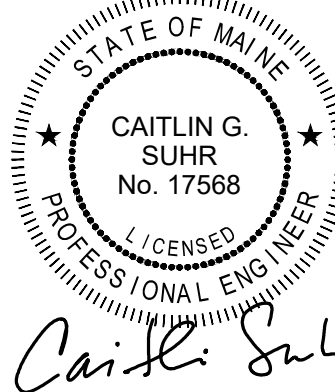


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CLIENT INFO:

CITY OF AUBURN
AUBURN, MAINE

STETSON ROAD
CULVERT REPLACEMENT

REV	MM/DD/YY	DESCRIPTION
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JOB NO: 0233981.25

DATE: APRIL 2025

SCALE: AS NOTED

DESIGNED BY: KLR/HKS

DRAWN BY: JBC

CHECKED BY: CGS

FILENAME: 0233981.25-C-9-DETAILS.dwg

DRAWING TITLE:

**CIVIL
DETAILS - 3**

DRAWING NO:

C-99-903

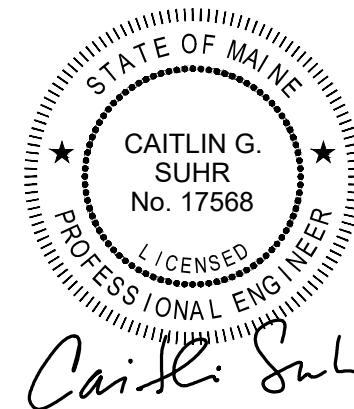


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DRAWING TITLE:

**CIVIL
DETAILS - 4**

DRAWING NO:

C-99-904

GALVANIZED STEEL CHANNEL POST CROSS SECTION

NOTES:

- SIGN BOLTS SHALL BE GALVANIZED STEEL WITH NUTS AND LOCK WASHERS WITH A DIAMETER OF 5/16 INCHES.
- STEEL CHANNEL POST SHALL BE GALVANIZED WITH A GROSS WEIGHT OF 3 LBS. PER LINEAR FOOT (L.F.).
- HOLES WITHIN STEEL CHANNEL POSTS SHALL BE 3/8 INCH DIAMETER SPACED 1 INCH ON-CENTER (O.C.).
- SIGN POST INSTALLATION THROUGH CONCRETE OR PAVEMENT REQUIRES CORE DRILLING 4"Ø MINIMUM AND PATCHING WITH CEMENT MORTAR.

SIGN POST DETAIL

NOT TO SCALE

BITUMINOUS PAVEMENT SECTION

NOT TO SCALE

NOTES:

- GRIND EXISTING PAVEMENT, 2" DEPTH.
- PROVIDE BITUMINOUS TACK COAT ON VERTICAL AND HORIZONTAL SURFACES PRIOR TO PAVING.
- DETAIL APPLICABLE TO PAVEMENT BUTT JOINTS AT ROADWAY WORK LIMITS. REFER TO PIPE INSTALLATION DTL. OR PAVED ROAD SECTION DTLs. FOR TRENCH REPAIR REQUIREMENTS.

PAVEMENT BUTT JOINT DETAIL

NOT TO SCALE

PIPE INSTALLATION DETAIL

NOT TO SCALE

GUARDRAIL TREATMENT OVER BURIED STRUCTURES

N.T.S.

GUARDRAIL BEAM RWM02A (MINIMUM THICKNESS 0.105")

N.T.S.

NOTE:

ALL DIMENSIONS SUBJECT TO
MANUFACTURING TOLERANCES.

SECTION A-A GUARDRAIL BEAM DETAIL RWM02A

N.T.S.

GUARDRAIL SPLICE AT POST

N.T.S.

GUARDRAIL SECTION THROUGH GUARDRAIL SPLICE

N.T.S.

GUARDRAIL DETAILS

NOT TO SCALE