

CITY OF HAVERHILL, MASSACHUSETTS

ROSEMONT STREET OVER LITTLE RIVER BRIDGE NO. H-12-024 (CFF)

APRIL 2024



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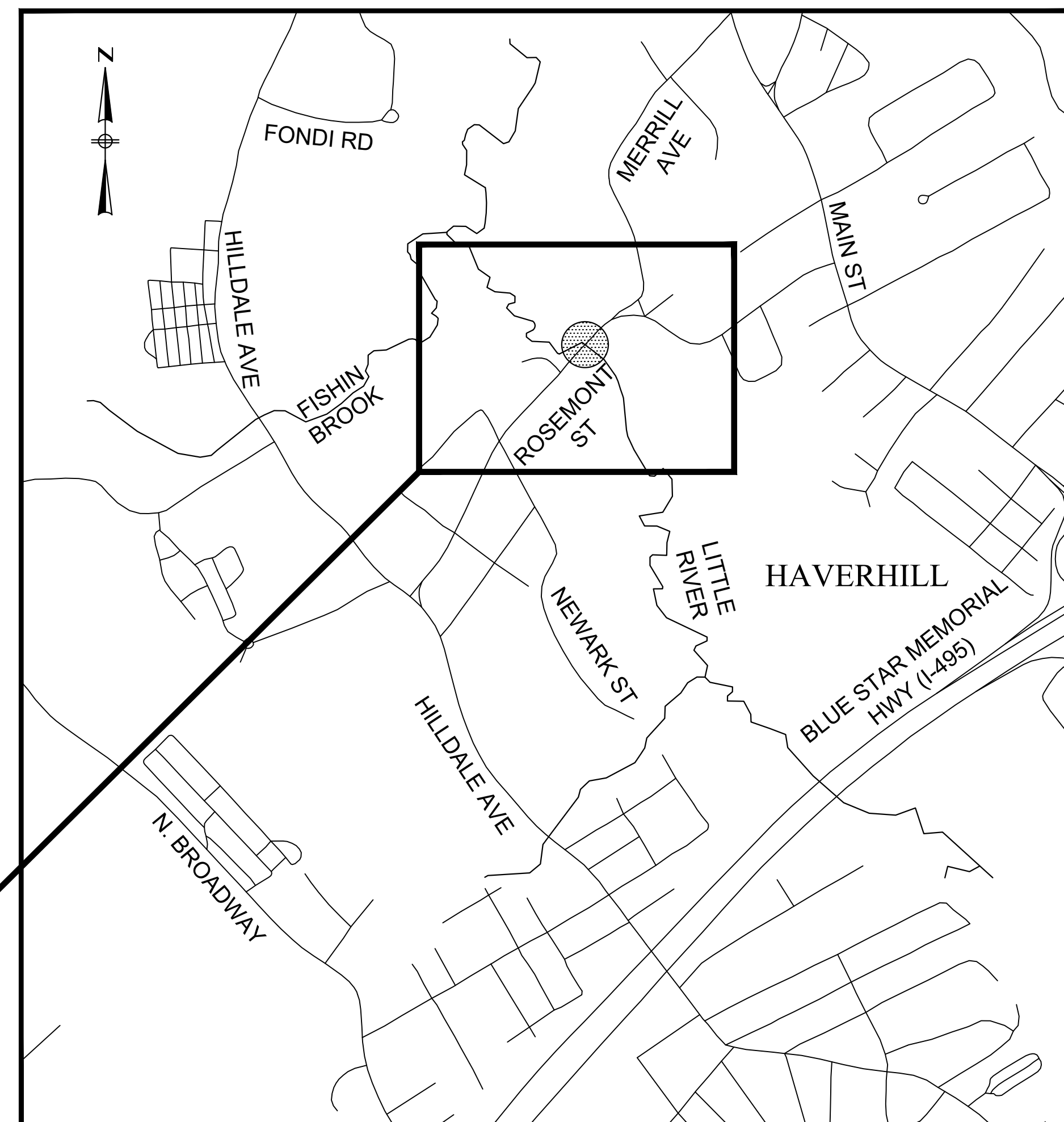
CITY MAYOR

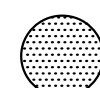
JAMES J. FIORENTINI

DEPARTMENT OF PUBLIC WORKS

ROBERT E. WARD, DIRECTOR
JOHN H. PETTIS III, CITY ENGINEER

**Project
Location**



 PROJECT LOCATION

LOCATION MAP
NOT TO SCALE

PLAN INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	CONSTRUCTION DETAILS
3	SECTIONS
4	CONSTRUCTION PLAN & TYPICAL SECTION
5	BRIDGE GENERAL PLAN & ELEVATION
6	DREDGING LIMITS
7	JURISDICTIONAL BOUNDARIES PLAN
8	IMPACTS PLAN

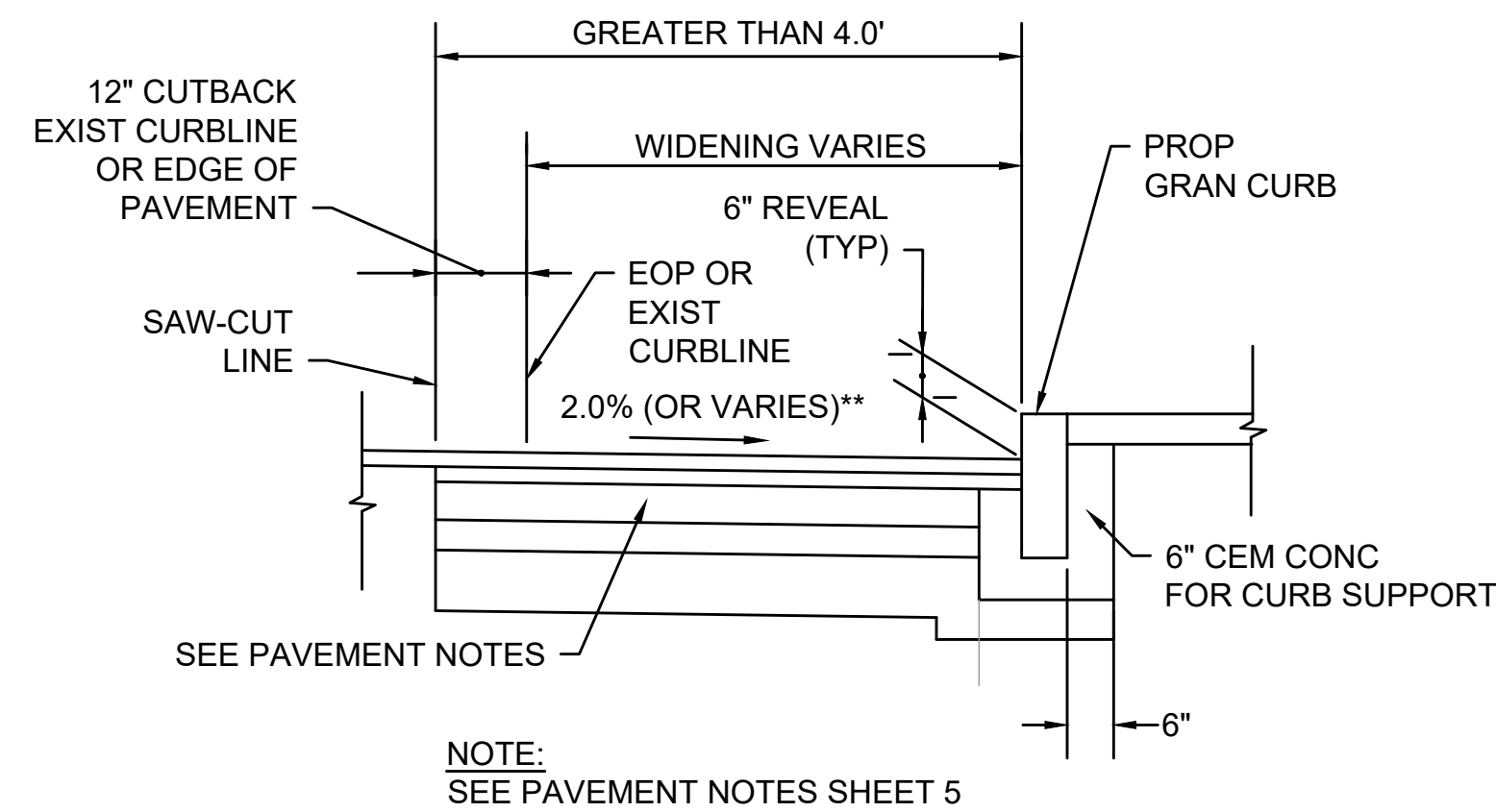


Christopher W. Jones

REGISTERED PROFESSIONAL

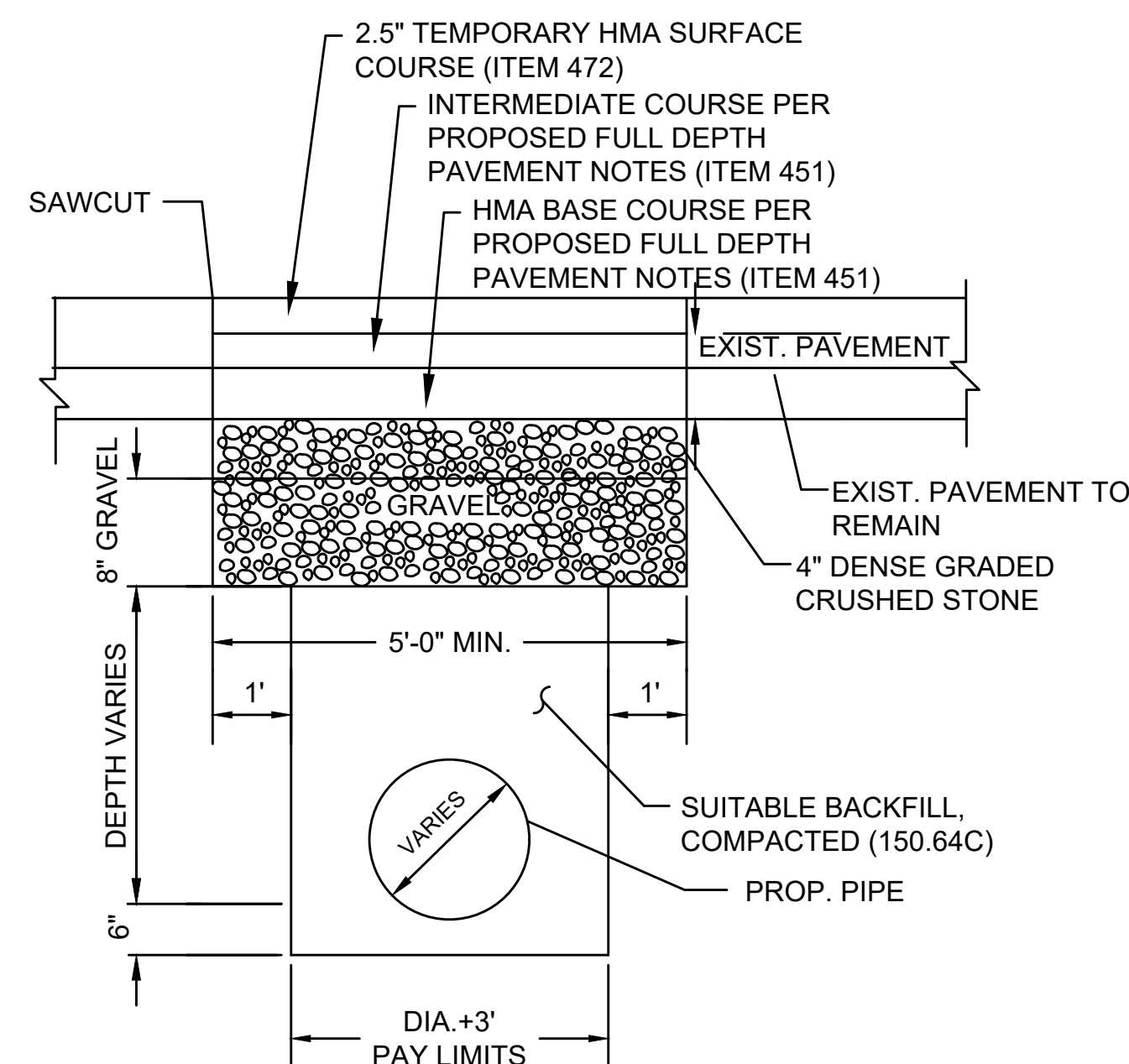
4/24/2024

DATE



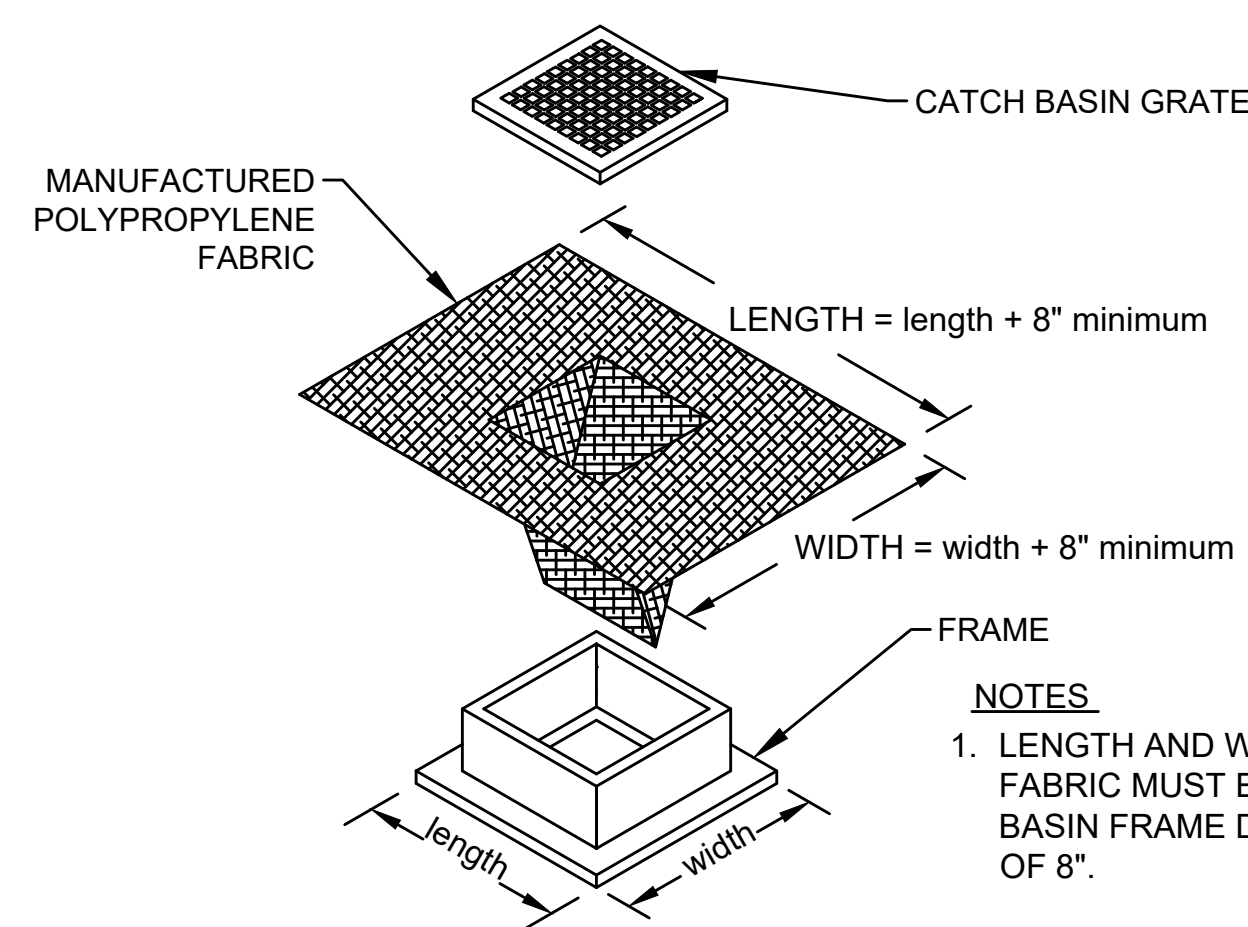
DETAIL FOR BOX WIDENING GREATER THAN 4.0'

NOT TO SCALE



PERMANENT TRENCH PATCH DETAIL IN MILLED AREAS

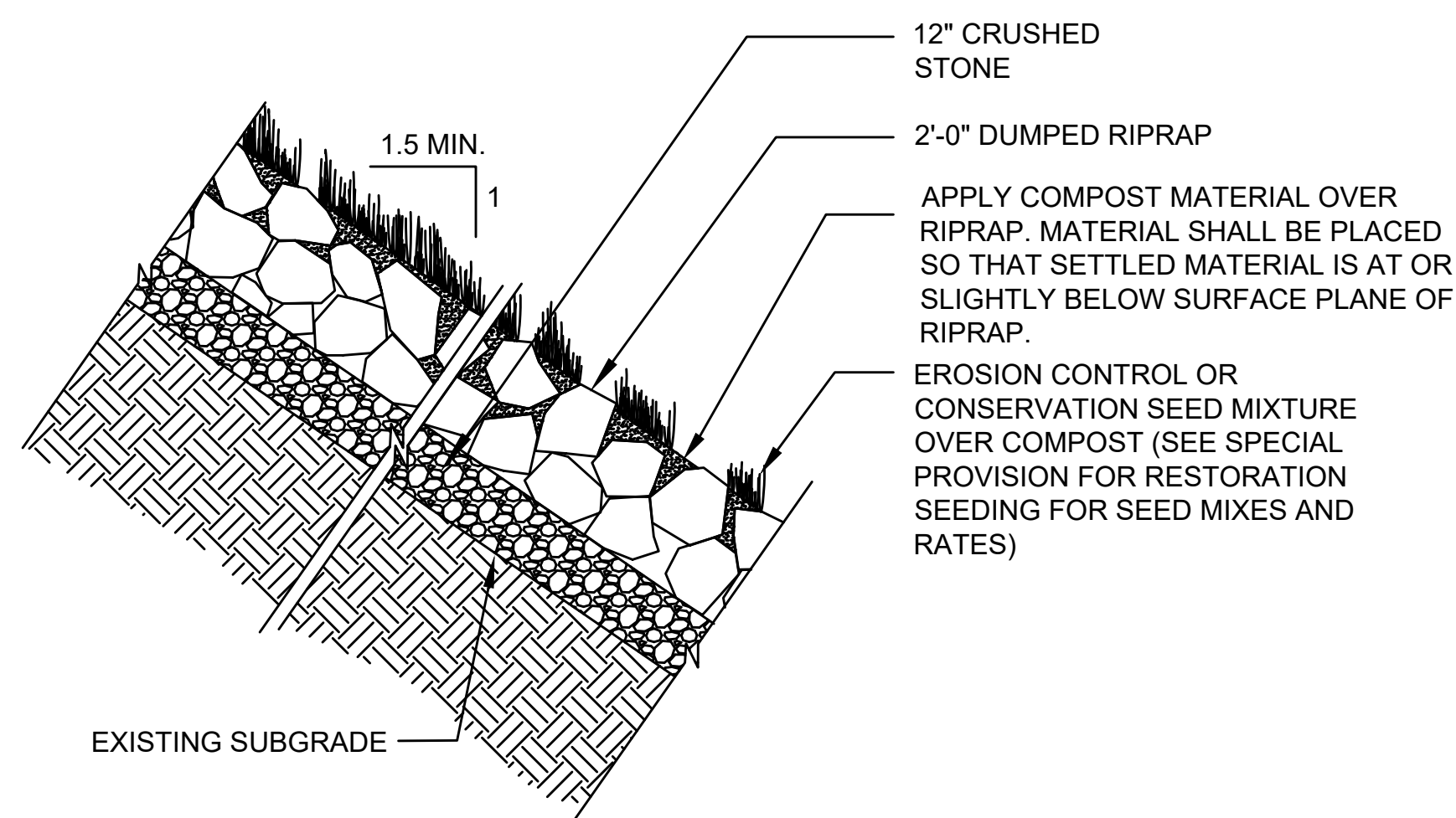
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CATCH BASIN EROSION
CONTROL PROTECTION (TYP)

NOT TO SCALE

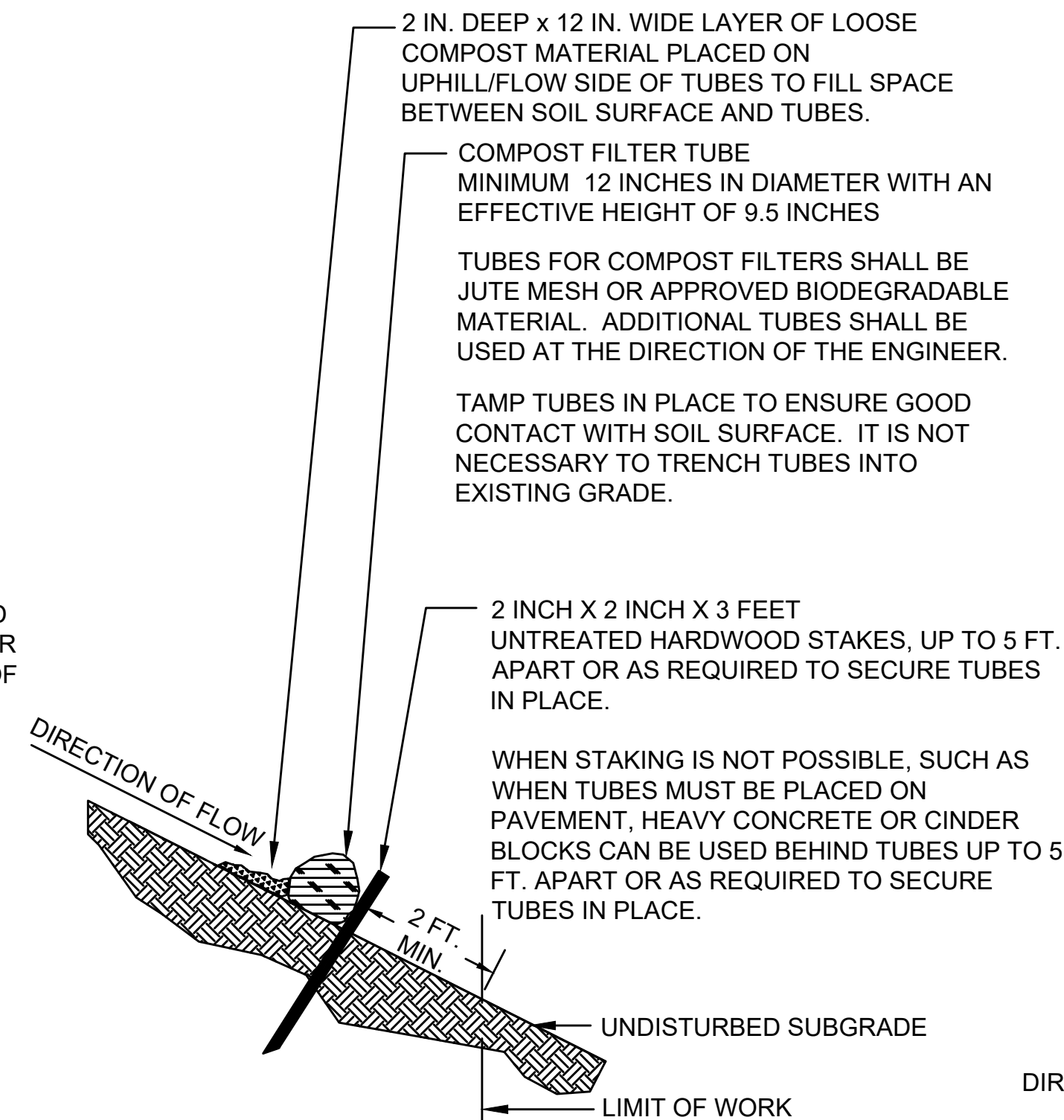
- ### NOTES
1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
 2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.



RIPRAP DETAIL FOR SLOPE STABILIZATION

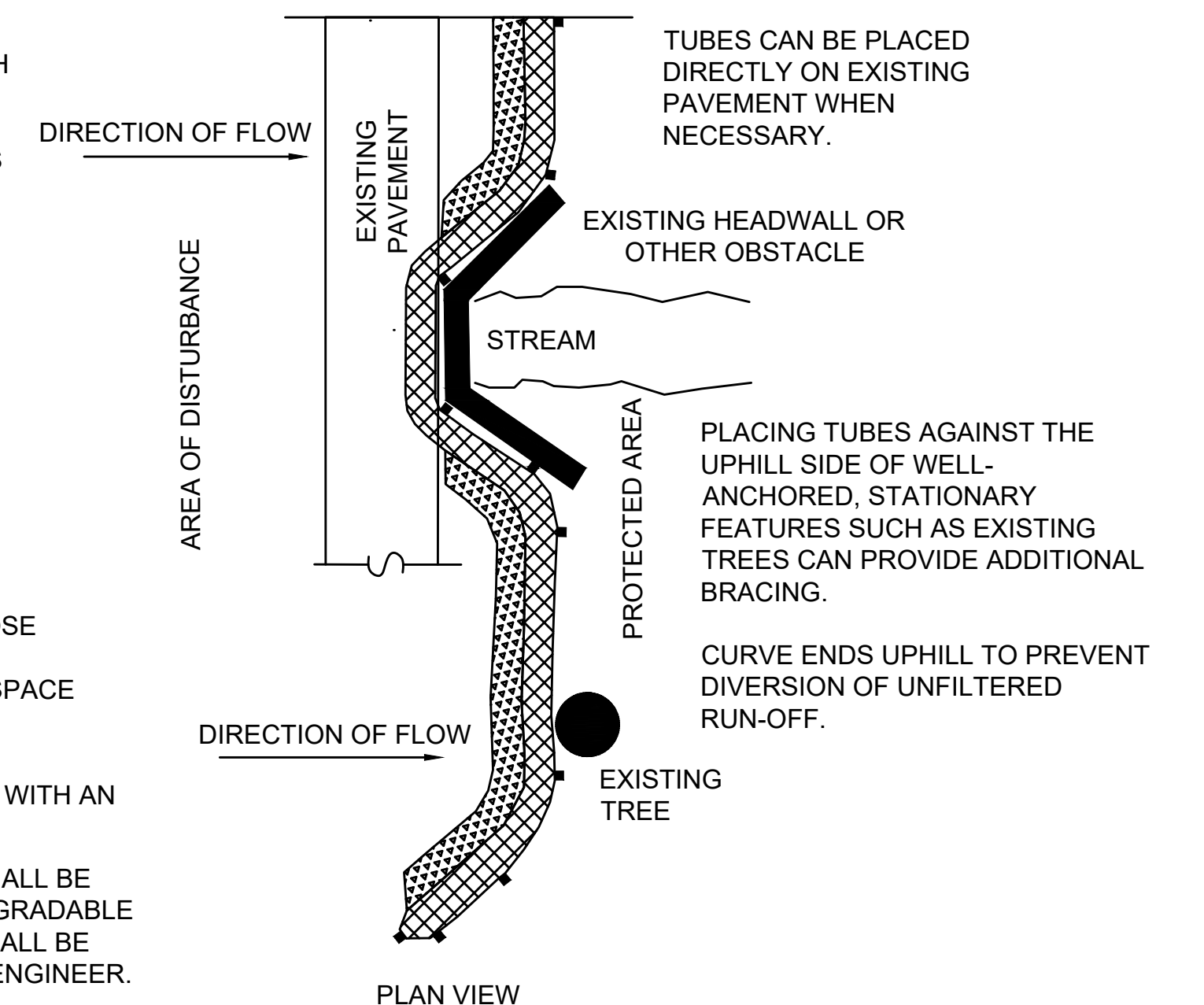
NOT TO SCALE

- GENERAL NOTES:**
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
 2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
 3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
 4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

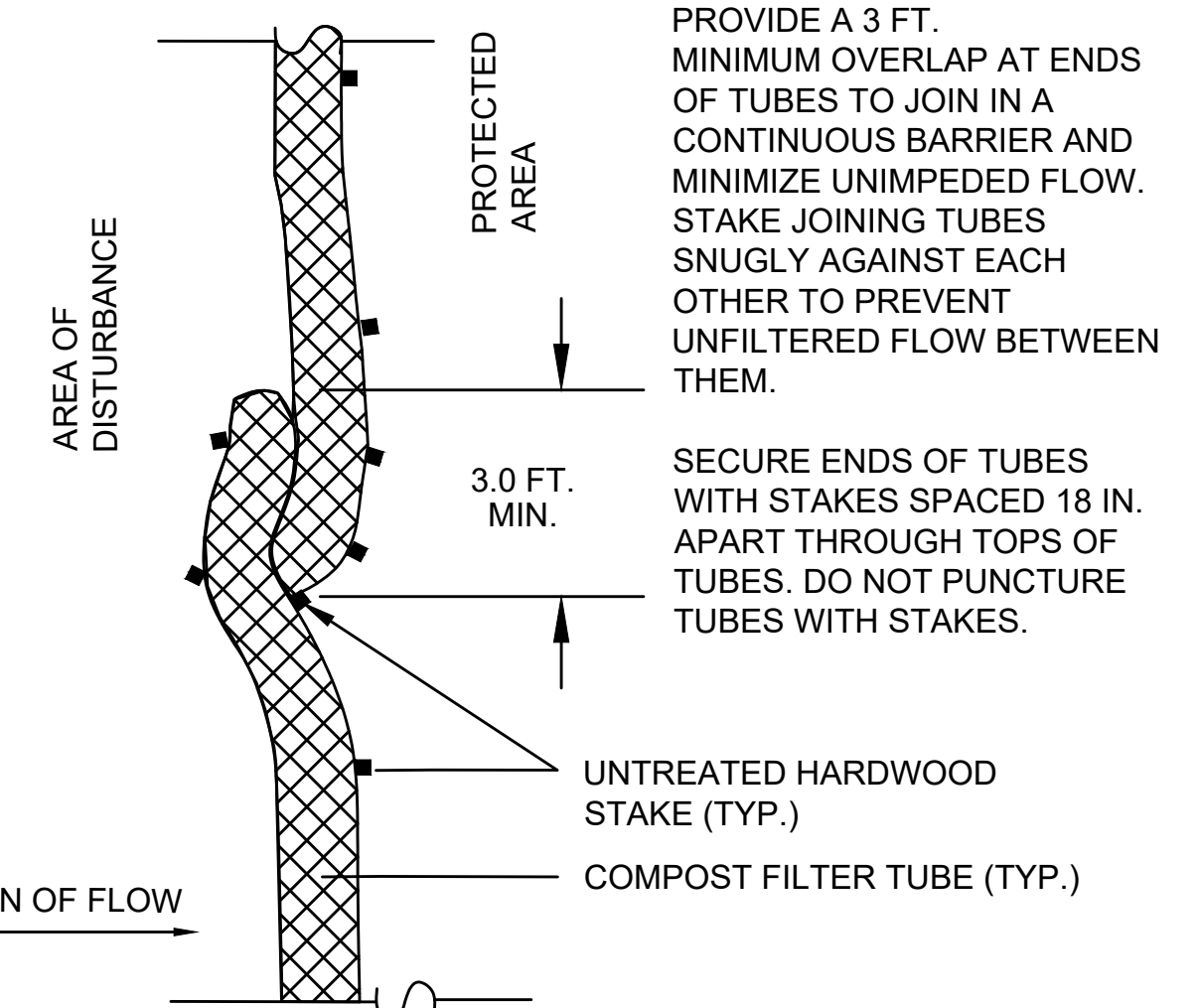


SINGLE COMPOST FILTER TUBE DETAIL
FOR EROSION CONTROL

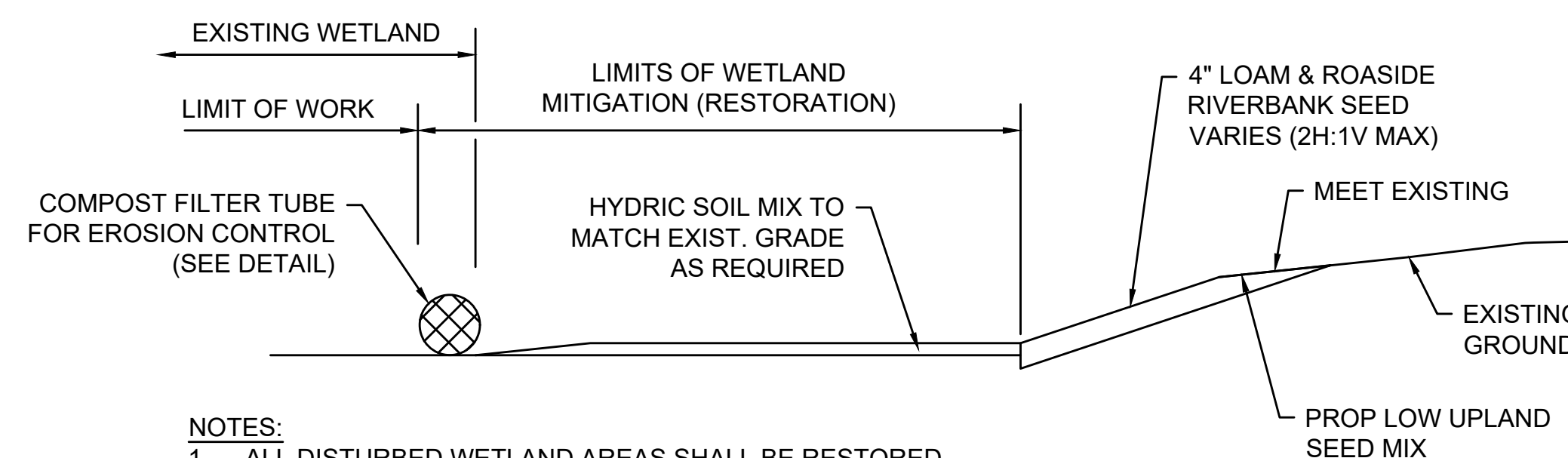
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PLAN VIEW

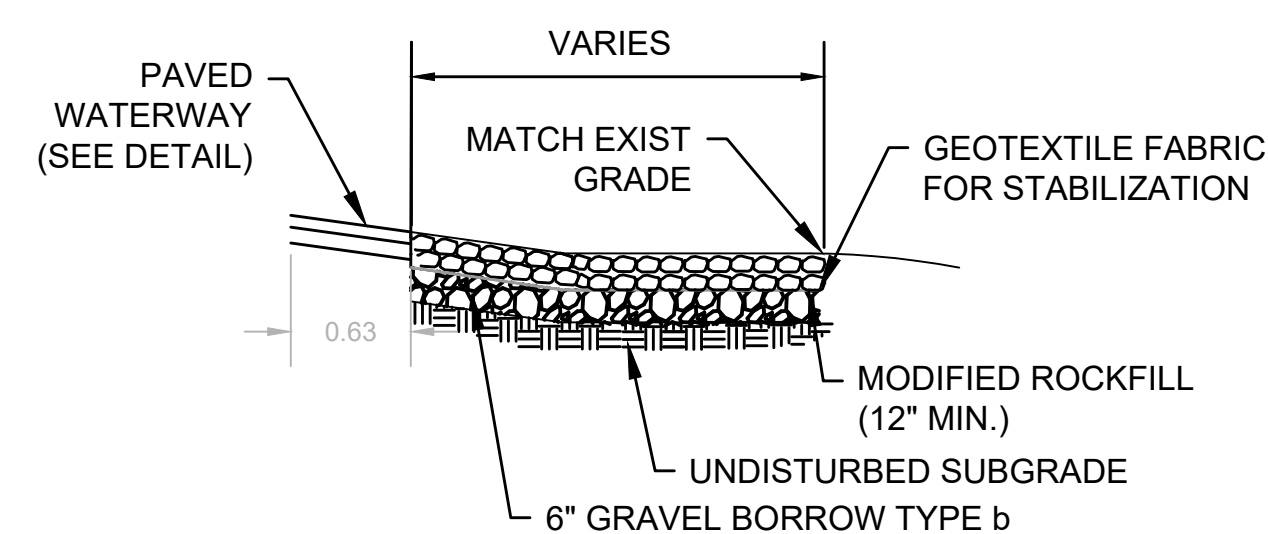


PLAN VIEW - JOIN DETAIL



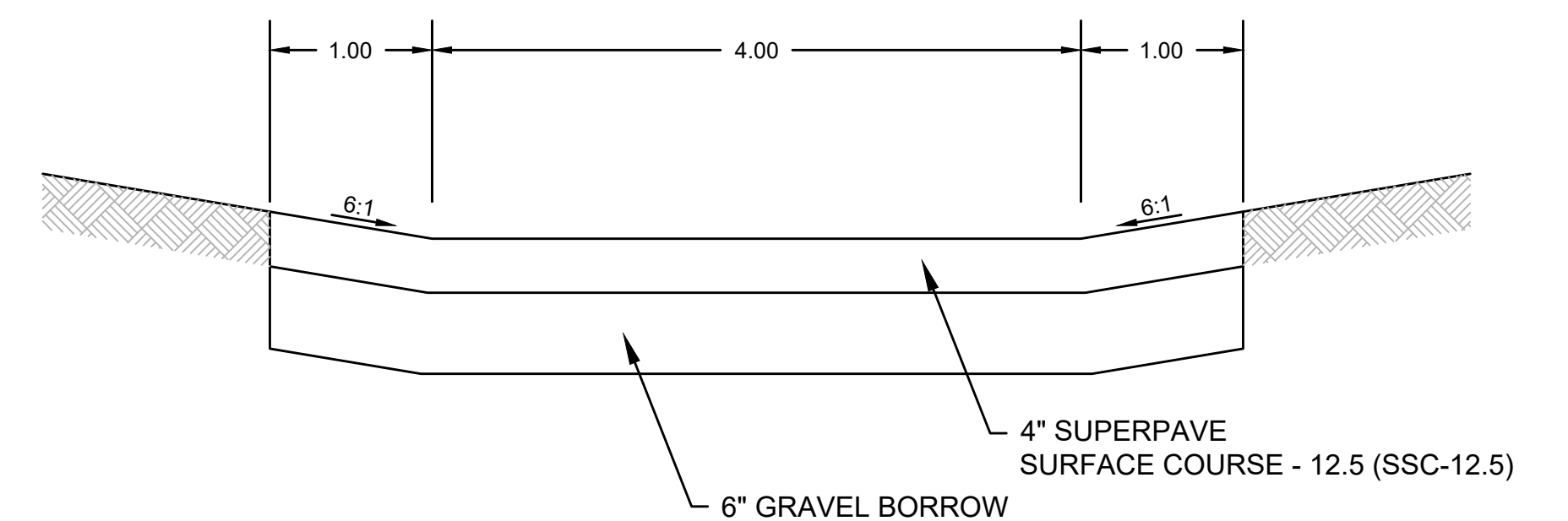
WETLAND RESTORATION AREA DETAIL

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MODIFIED ROCKFILL DETAIL

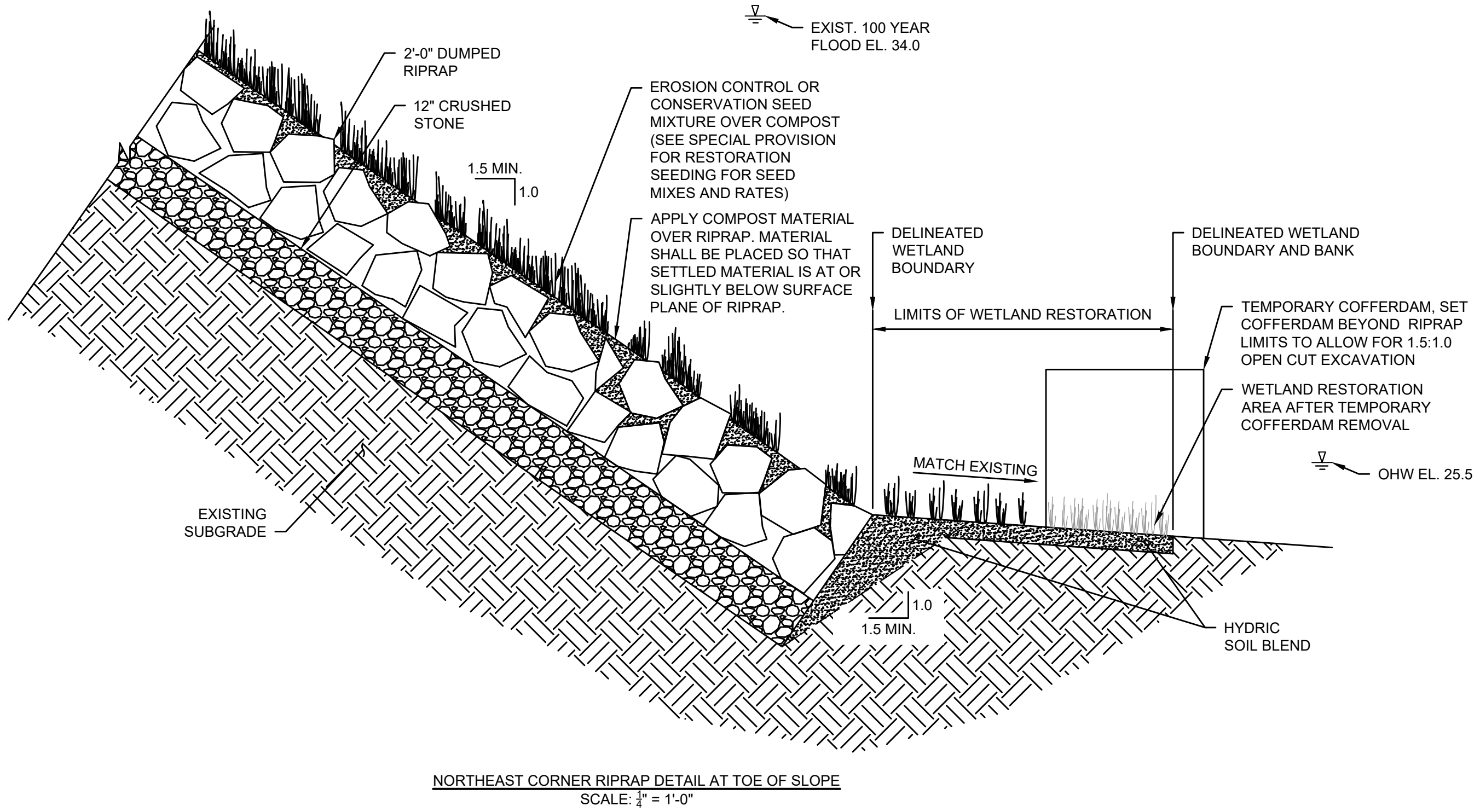
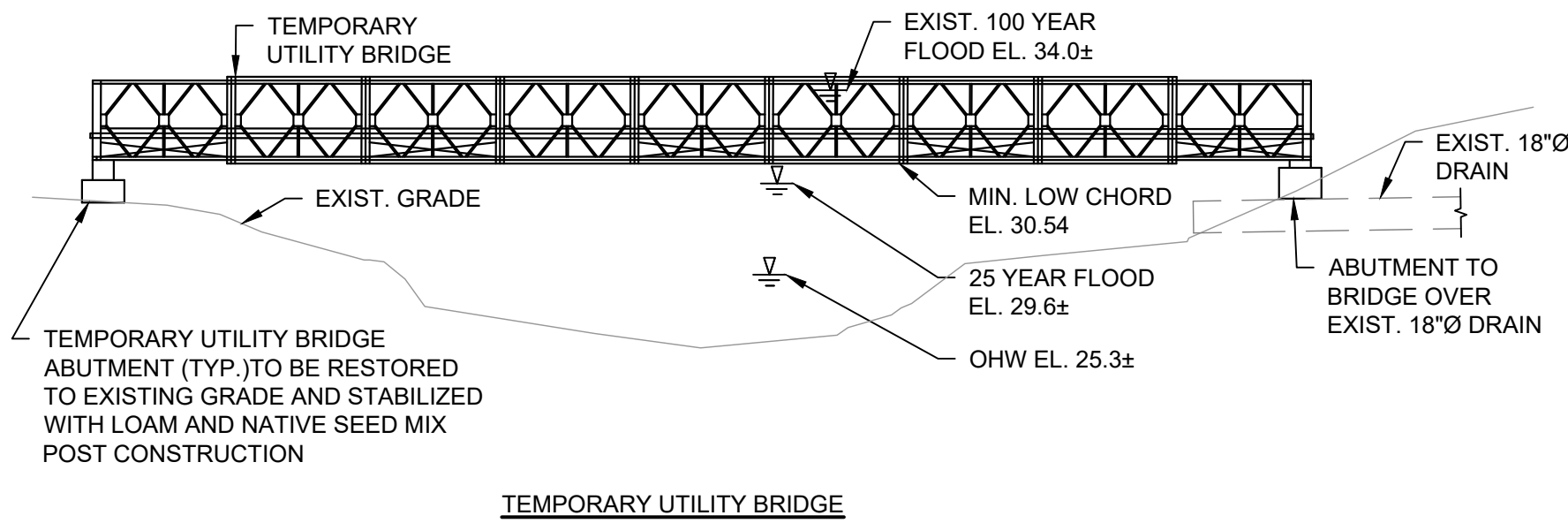
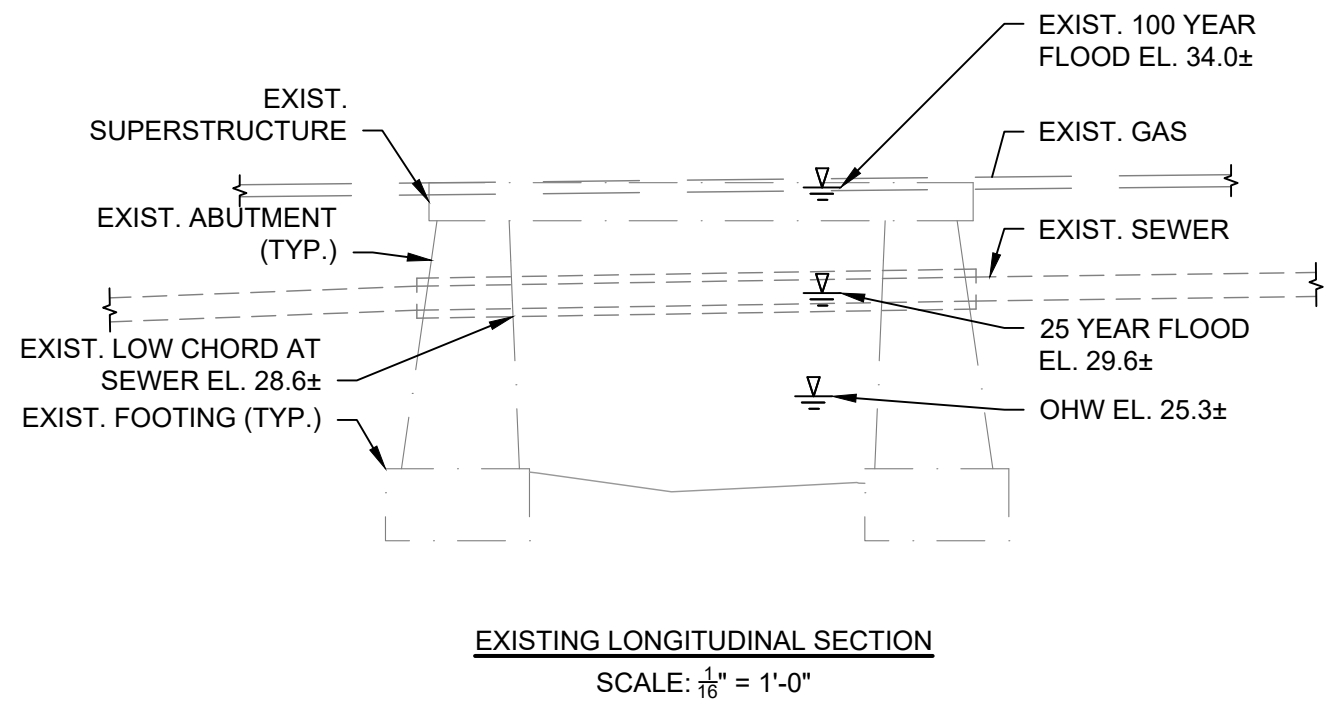
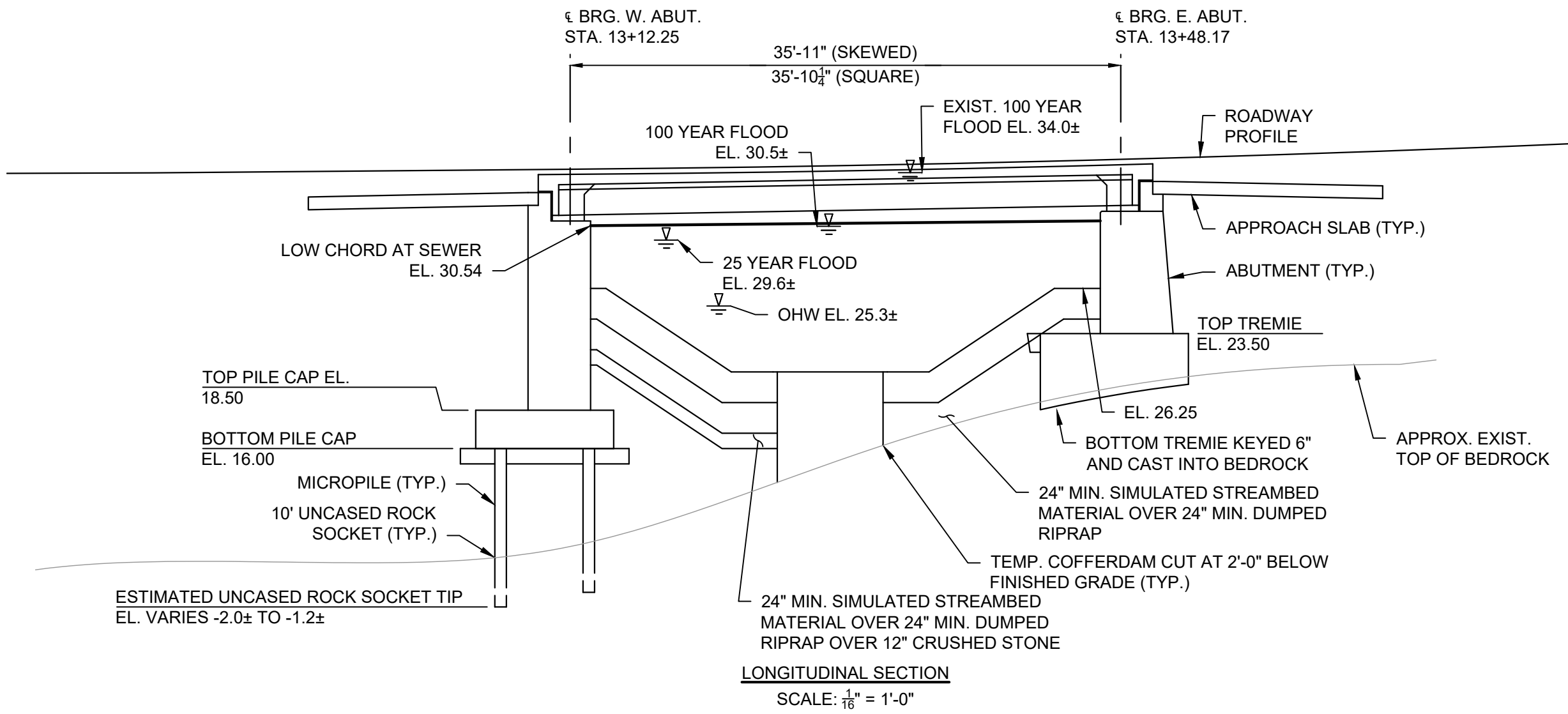
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HMA PAVED WATERWAY

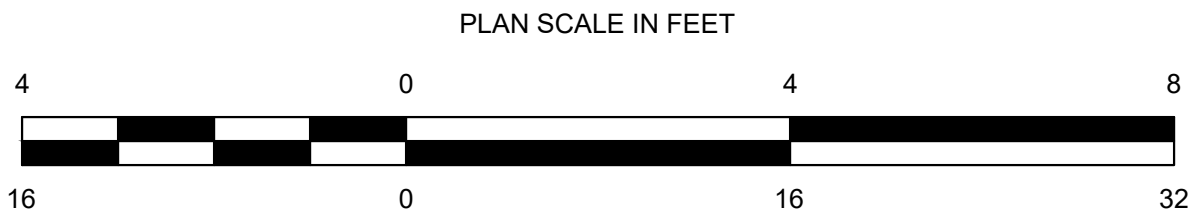
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NOTE:

1. THE COORDINATES, IN FEET, ARE BASED UPON MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET. THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B) - US FEET.

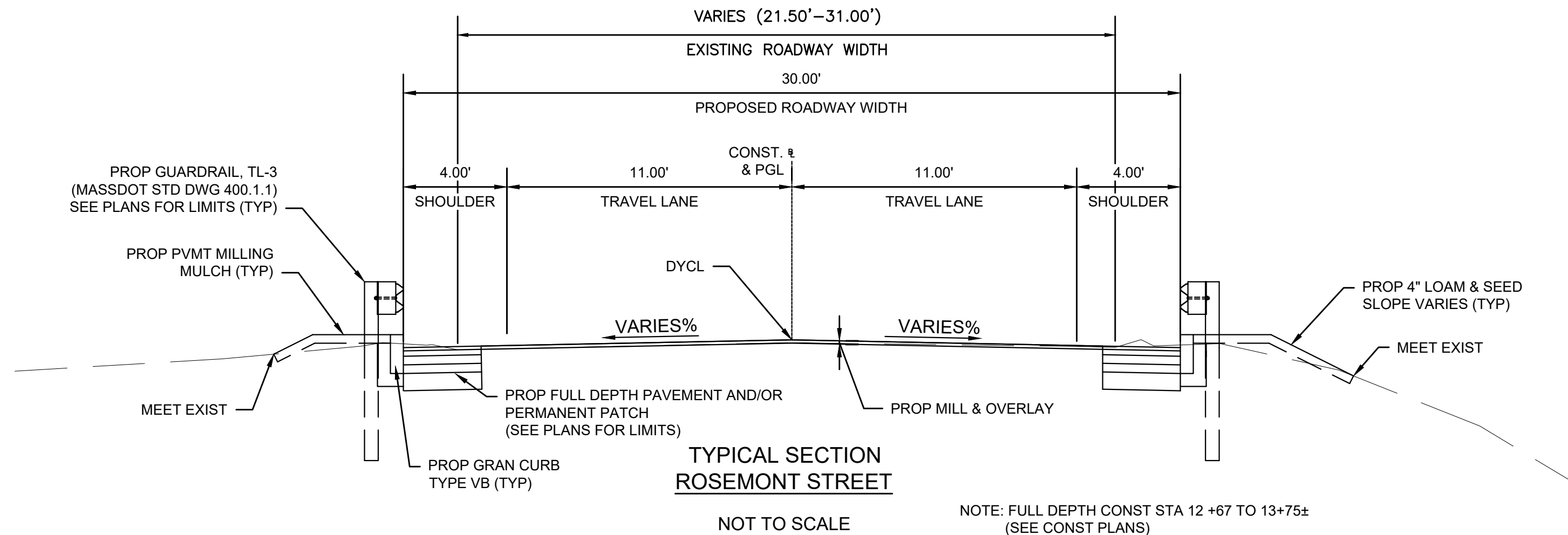
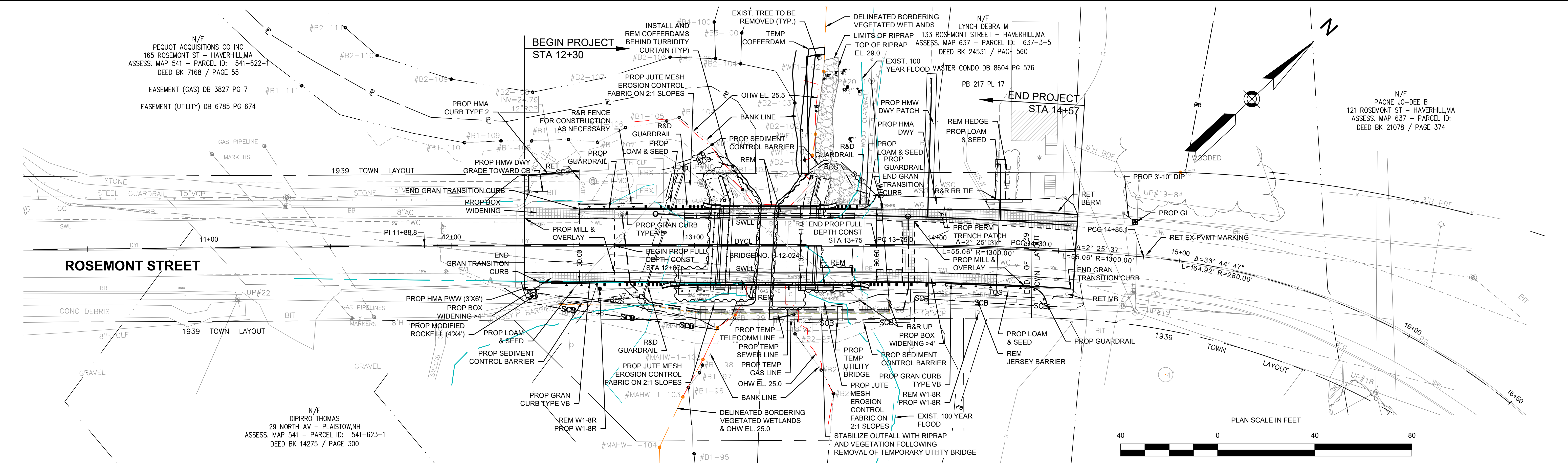


ROSEMONT STREET BRIDGE
Haverhill, Massachusetts

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Figure No. 3
As Shown
SECTIONS

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- NOTE:
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PAVEMENT NOTES

FULL DEPTH PAVEMENT & BOX WIDENING >4' (PERMANENT PATCH)

- SURFACE COURSE: 1-1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER
- INTERMEDIATE COURSE: 2 1/2" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER
- BASE COURSE: 4" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER
- SUB-BASE: 4" DENSE GRADED CRUSHED STONE FOR SUB-BASE OVER 8" GRAVEL BORROW TYPE b FOR SUB-BASE OVER SUBGRADE

NOTE: SUBGRADE SHALL MEET STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, SECTION 120,150 AND 170

PROP HMA BRIDGE WEARING COURSE

- SURFACE COURSE: 1-1/2" SUPERPAVE BRIDGE SURFACE COURSE - 12.5 (SSC-B-12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER
- INTERMEDIATE COURSE: 1-1/2" SUPERPAVE BRIDGE PROTECTIVE COURSE 12.5 (SPC-B-12.5) OVER SPRAY APPLIED MEMBRANE WATERPROOFING

PAVEMENT MILLING AND OVERLAY

- SURFACE COURSE: 1-1/2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) OVER
- PAVEMENT MILLING: 1-1/2" PAVEMENT MICROMILLING

HMA DRIVEWAYS AND HMA DRIVEWAY PATCH

- SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER 2-1/2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5) OVER
- FOUNDATION: 8" GRAVEL BORROW, TYPE b

PAVEMENT NOTES

- ALL HMA FOR PATCHING. ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE INSTALLED PER SECTION 450.

ROSEMONT STREET CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	3118537.5041	761020.4655		N42°17'12"E 188.75'	11+88.75	3118677.1428	761147.4670
L2	11+88.75	3118677.1428	761147.4670		N42°52'57"E 186.20'	13+74.95	3118813.5810	761274.1756
C2	13+74.95	3118813.5810	761274.1756	R=1300.00' L=55.06' Δ=2°25'37" T=27.54'		14+30.02	3118853.1239	761312.4900
C3	14+30.02	3118853.1239	761312.4900	R=1300.00' L=55.06' Δ=2°25'37" T=27.54'		14+85.08	3118891.0089	761352.4444
C4	14+85.08	3118891.0089	761352.4444	R=280.00' L=184.35' Δ=37°43'22" T=95.65'		16+69.43	3118962.9140	761518.5890



ROSEMONT STREET BRIDGE

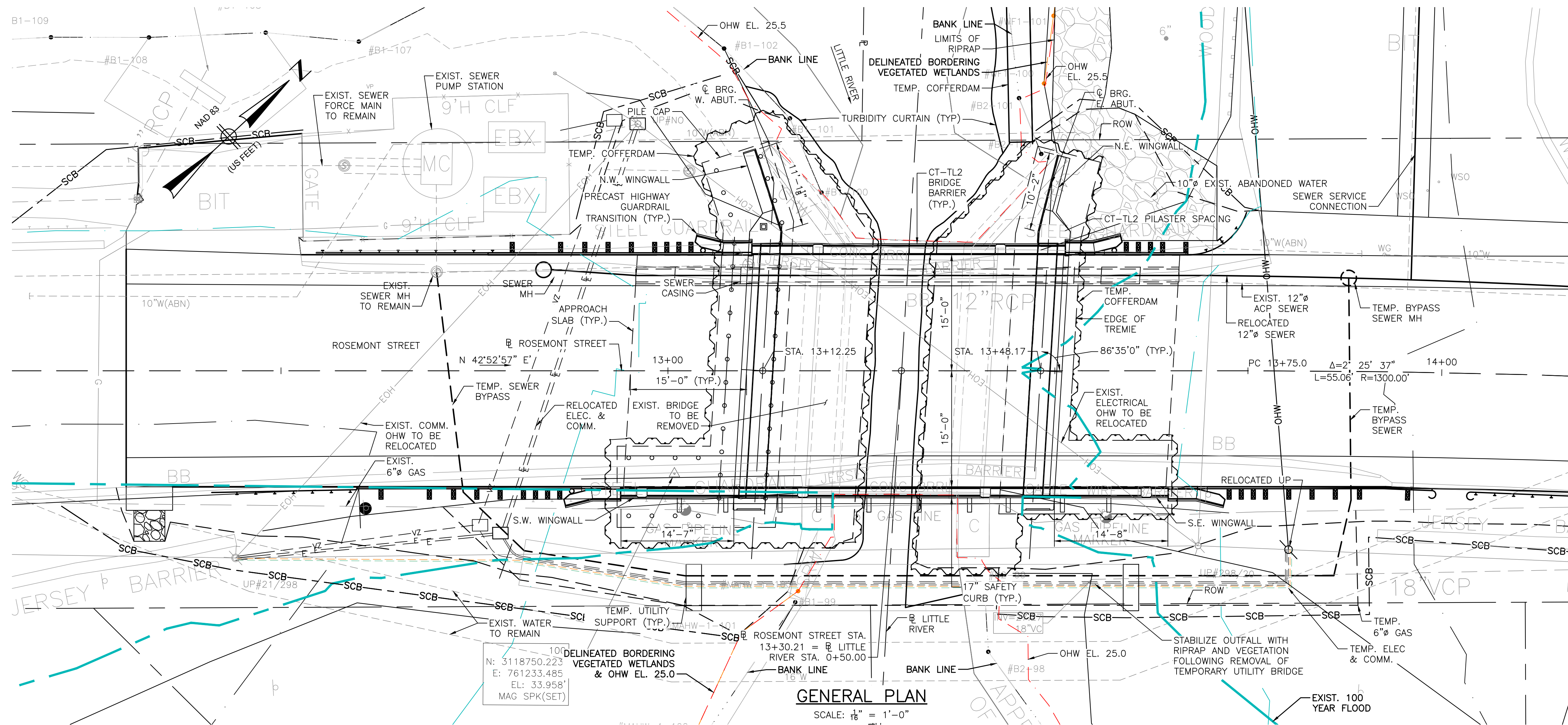
Haverhill, Massachusetts

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Figure No. 4
Scale: 1" = 40'

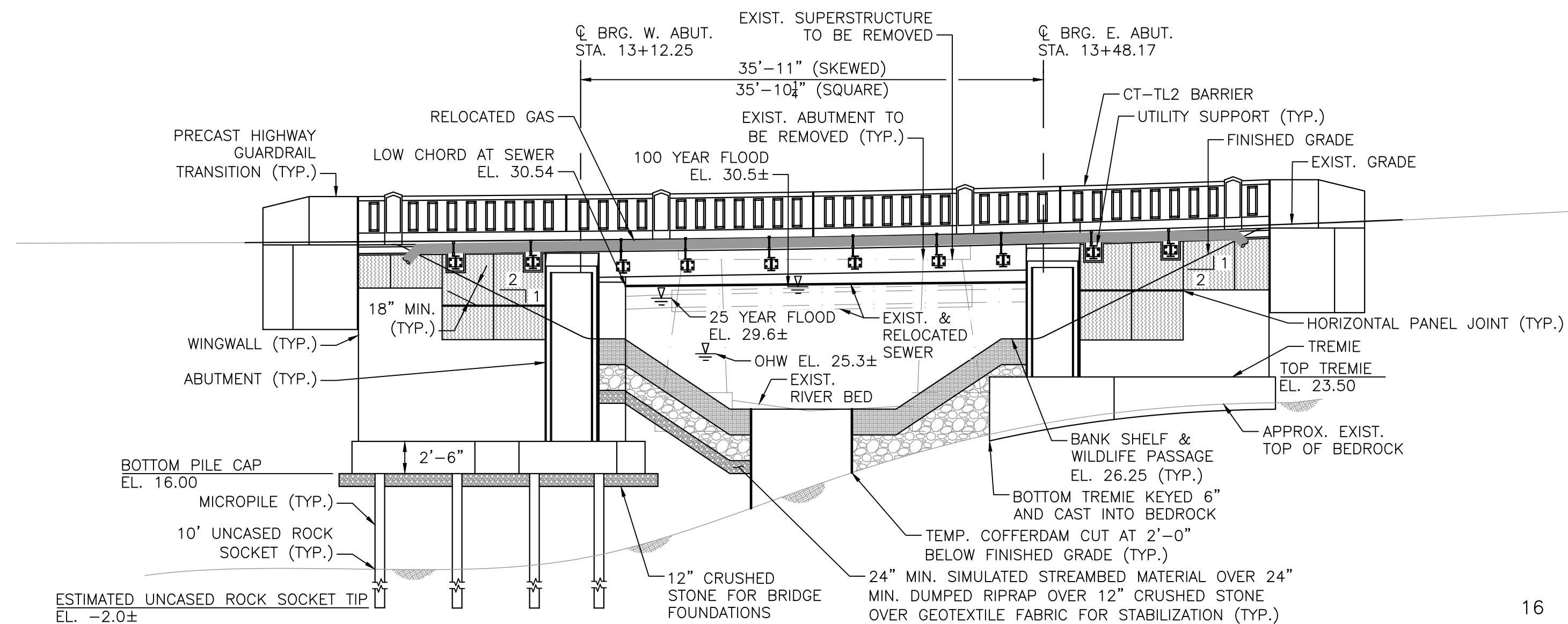
CONSTRUCTION PLAN & TYPICAL SECTION

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GENERAL PLAN

SCALE: $\frac{1}{16}'' = 1'-0''$



GENERAL ELEVATION

SCALE: $\frac{1}{16}'' = 1'-0''$

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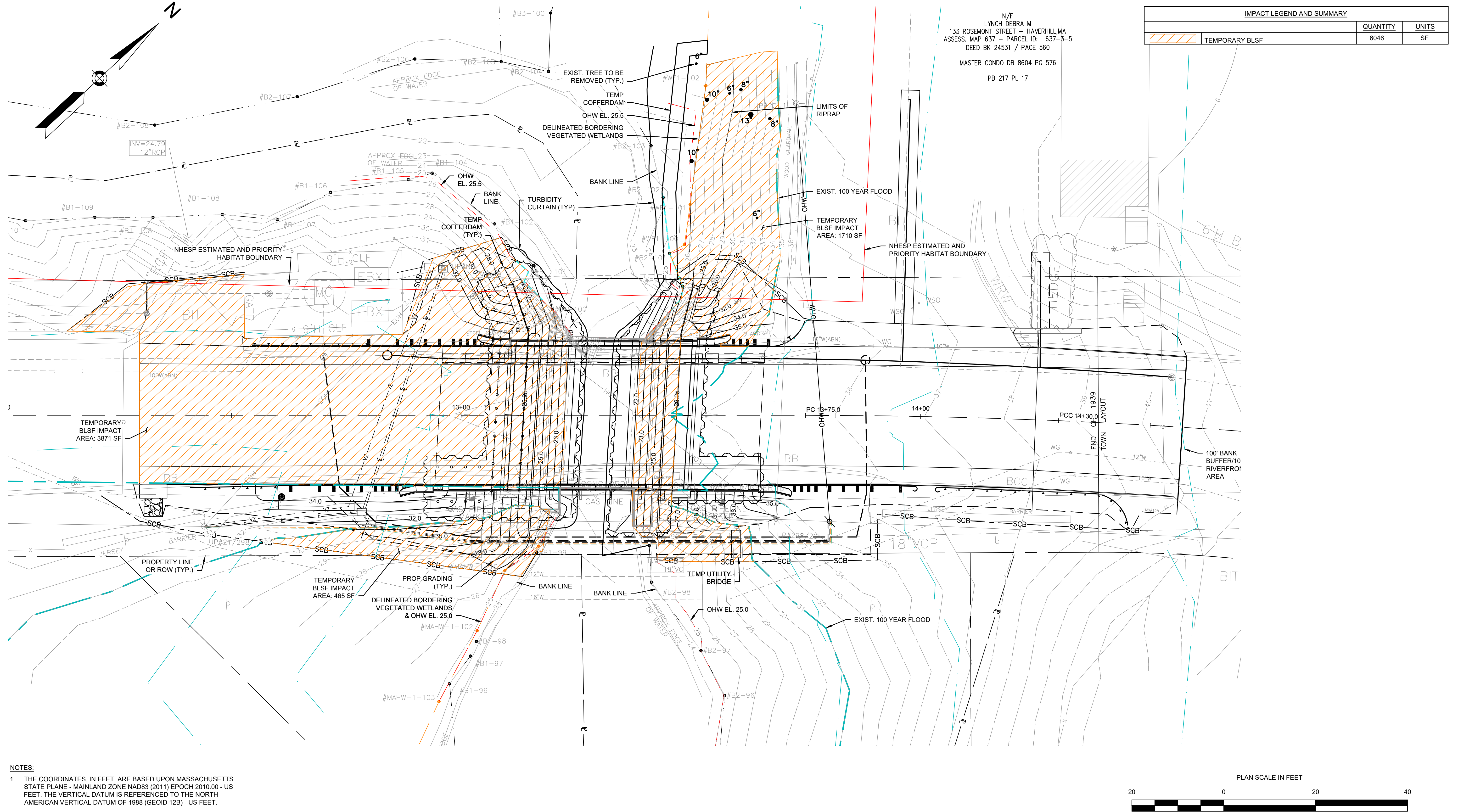
ROSEMONT STREET BRIDGE

Haverhill, Massachusetts

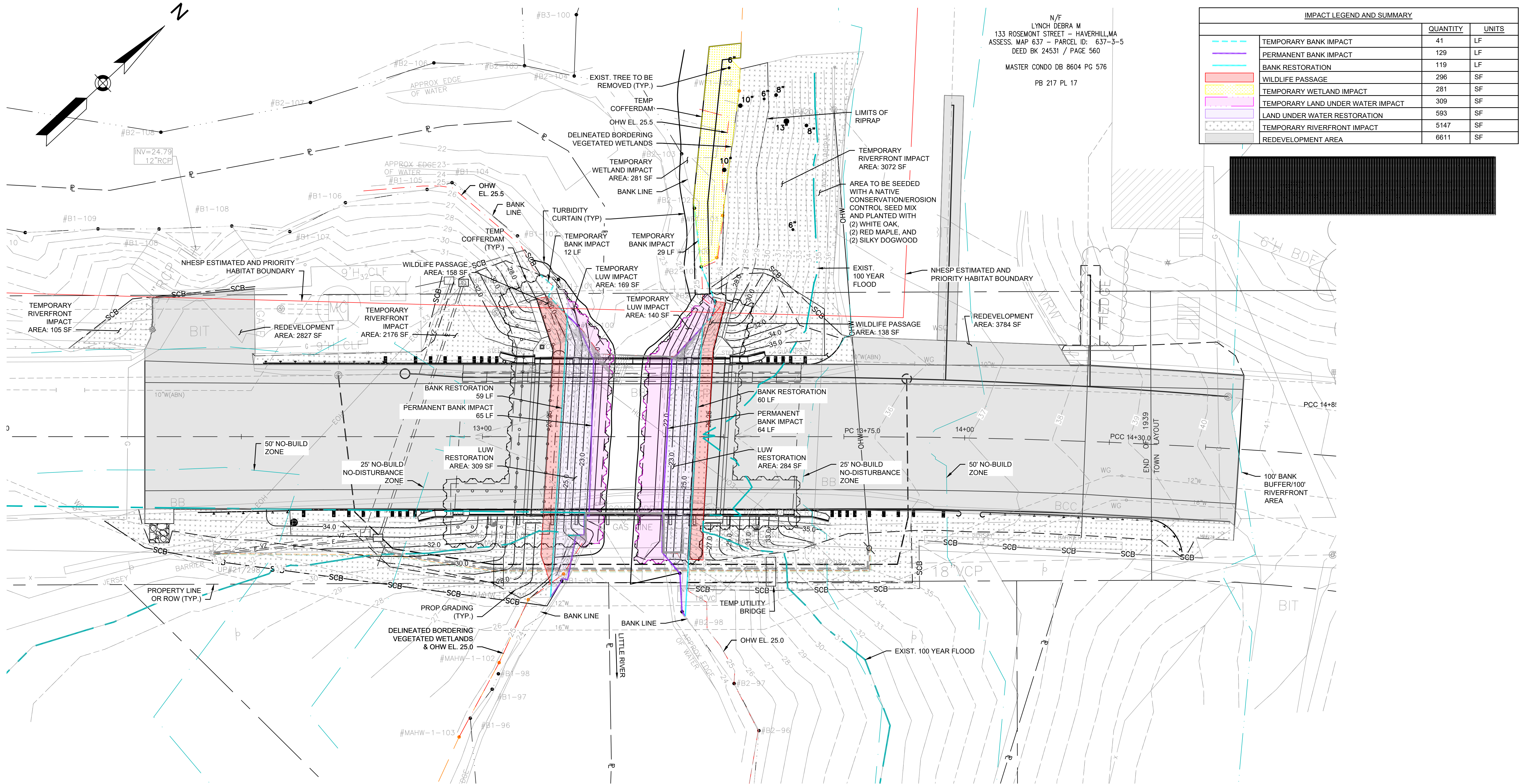
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Figure No. 5
Scale: $\frac{1}{16}'' = 1'-0''$
**BRIDGE GENERAL
PLAN & ELEVATION**

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ROSEMONT STREET BRIDGE

Haverhill, Massachusetts

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Figure No. 8
Scale: 1" = 20'
IMPACTS PLAN