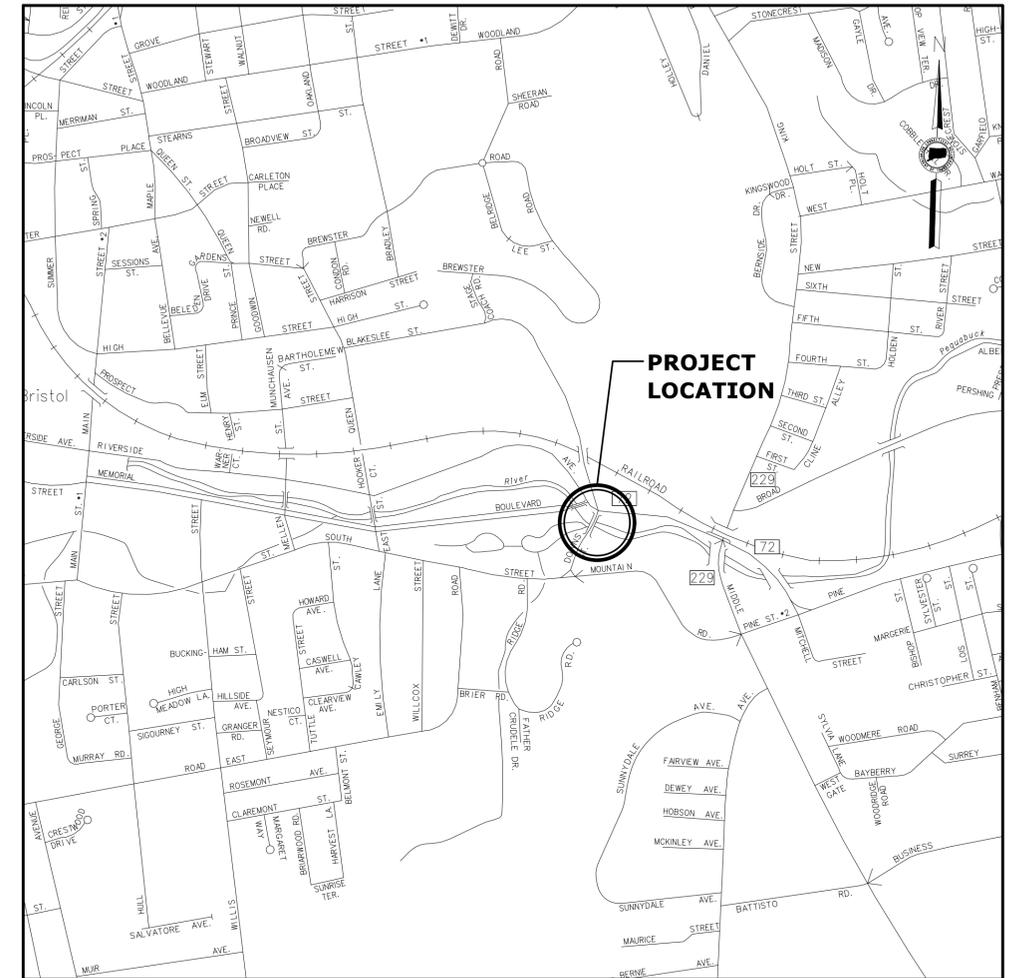
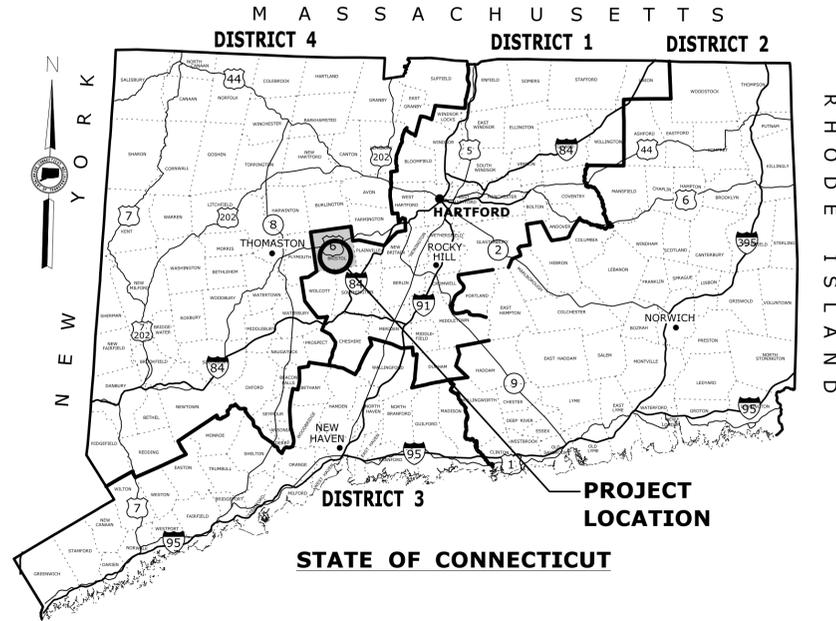


CITY OF BRISTOL, CT

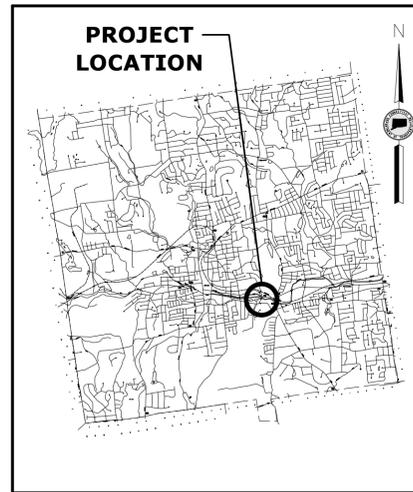


Plans For REPLACEMENT OF BRIDGE NO. 04104 DOWNS STREET OVER PEQUABUCK RIVER

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
DOWNS STREET	TOWN	182 FEET



LOCATION PLAN
NOT TO SCALE



CITY OF BRISTOL
NOT TO SCALE

GENERAL NOTES:

- CONSTRUCTION SPECIFICATIONS: Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 819, dated 2023; Supplemental Specifications, dated July 2025; and Special Provisions
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM SYSTEM N.A.D. 1983
- VERTICAL DATUM BASED ON NAVD 1988

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE CITY OF BRISTOL.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE CITY TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF CTDOT STANDARD DRAWINGS	
SHEET NO.	DRAWING TITLE
HW-211-01	ANTI-TRACKING PAD
HW-586-01	CATCH BASIN AND DROP INLET TYPE "C" AND "C-L"
HW-586-07a	CATCH BASIN TOPS TYPE "C" AND "C-L"
HW-586-08	CATCH BASIN FRAMES AND GRATES
HW-811-01	CONCRETE CUBING
HW-821-10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM
HW-821-10b	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF
HW-822-02a	TEMPORARY TRAFFIC BARRIER - DETAILS
HW-910-01	W-BEAM BETA BEAM RAIL HARDWARE
HW-910-07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET
HW-910-20	MASH W-BEAM HARDWARE
HW-910-26	THRIE-BEAM ATTACHMENT HARDWARE
HW-911-01	R-B END ANCHORAGE TYPE I AND II
HW-921-01	CONCRETE SIDEWALKS
HW-924-01	CONCRETE DRIVEWAY RAMPS
TR-1000-01	GENERAL CLAUSES (TEST PROCEDURES)
TR-1001-01	TRENCHING AND BACKFILLING - ELECTRICAL CONDUIT
TR-1002-01	TRAFFIC CONTROL FOUNDATIONS
TR-1010-01	CONCRETE HANDHOLE
TR-1102-01	PEDESTALS, PEDESTRIAN SIGNALS
TR-1107-01	PEDESTRIAN PUSH BUTTONS
TR-1111-01	LOOP VEHICLE DETECTORS AND SAWCUT
TR-1113-01	CONTROL CABLE
TR-1205-01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS
TR-1208-01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS
TR-1208-02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS
TR-1210-04	PAVEMENT MARKING LINES AND SYMBOLS
TR-1210-08	PAVEMENT MARKINGS FOR NON FREEWAYS
TR-1220-01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220-02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

LIST OF DRAWINGS	
SHEET NO.	DRAWING TITLE
01	TITLE SHEET
02	TYPICAL SECTION
03 - 04	MISCELLANEOUS DETAILS - 1 - 2
05	BASELINE DATA AND SURVEY PLAN
06	ROADWAY PLAN
07	PROFILE
08	GRADING & UTILITY PLAN
09	TEMPORARY UTILITY RELOCATION PLAN
10 - 11	CROSS SECTIONS 1 - 2
12 - 30	STRUCTURE PLANS
31 - 34	TRAFFIC PLANS
35 - 37	TRAFFIC GUIDE SHEETS

STANDARD CONVENTIONS			
North Arrow W/No. Coord.	Grid Arrow	Chain Link Fence	Water Edge
Edge Of Road	Limit Of Marsh	Rustic Fence	Stream
Concrete Pavement	Stone Wall	Pipe Fence	Ditch
Dirt Road	Ledge Outcrop	Board Fence	TOWN LINE
B.C.L.C.	Inland Wetland Limits	Property Line	Highway Line
Granite Curb	STATE LINE	Lot Line	Street Line
Guide Rail	Power Line	Easement Line	Riprap
Concrete Median Barrier	Swamp		Hedge Row
Bit. Walk	Building		Tree Line
Conc. Sidewalk	Transmission Tower		Shrub
Railroad Tracks			Evergreen Tree
			Deciduous Tree
			Retaining Wall

DESIGNED BY:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

Plans For
**REPLACEMENT OF
BRIDGE NO. 04104
DOWNS STREET
OVER
PEQUABUCK RIVER**

City of
BRISTOL

STATE PROJECT NO. **0017-4104**

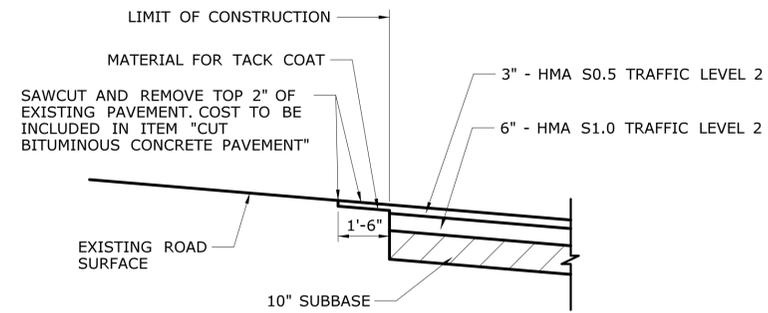
DRAWING NO. **GEN-01**
SHEET NO. **01.01**

LEGEND:

- (A) POINT OF APPLICATION OF GRADE
- (B) 3" - HMA S0.5 - TRAFFIC LEVEL 2
- (C) 6" - HMA S1.0 - TRAFFIC LEVEL 2 (TWO EQUAL LIFTS)
- (D) 10" SUBBASE
- (E) CONCRETE SIDEWALK
- (F) 6" PROCESSED AGGREGATE
- (G) 4" TOP SOIL AND TURF ESTABLISHMENT
- (H) CONCRETE CURB (6" REVEAL)
- (I) 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKINGS
- (J) GUIDERAIL (SEE ROADWAY PLAN FOR TYPE)

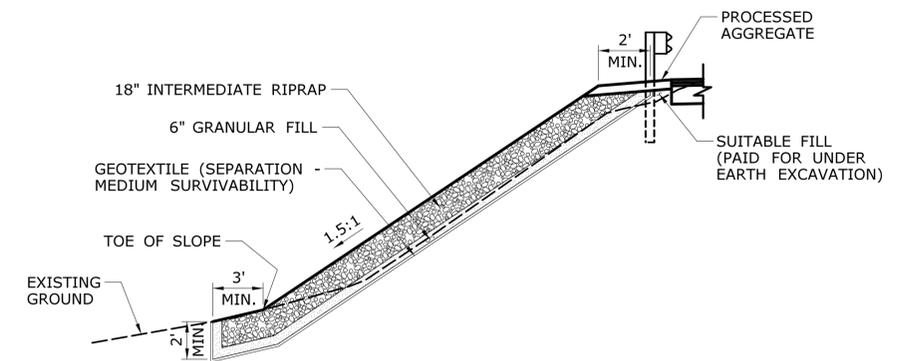
NOTES:

1. SEE ROADWAY PLAN FOR GUIDERAIL LIMITS.
2. UPON COMPLETION OF ALL OTHER CONSTRUCTION ITEMS, THE FINAL COURSE OF HMA SHALL BE PLACED IN ONE OPERATION OVER THE LIMITS SHOWN ON THE ROADWAY PLAN TO CREATE A CLEAN UNIFORM SURFACE.
3. SLOPES 2:1 OR FLATTER REQUIRE "FURNISHING AND PLACING TOP SOIL" 4" THICK AND "TURF ESTABLISHMENT".
4. SLOPES STEEPER THAN 2:1 REQUIRE RIPRAP FOR SLOPE PROTECTION.
5. SUITABLE MATERIAL EXCAVATED DURING CONSTRUCTION OF ROADWAY TO BE USED FOR FILL MATERIAL.



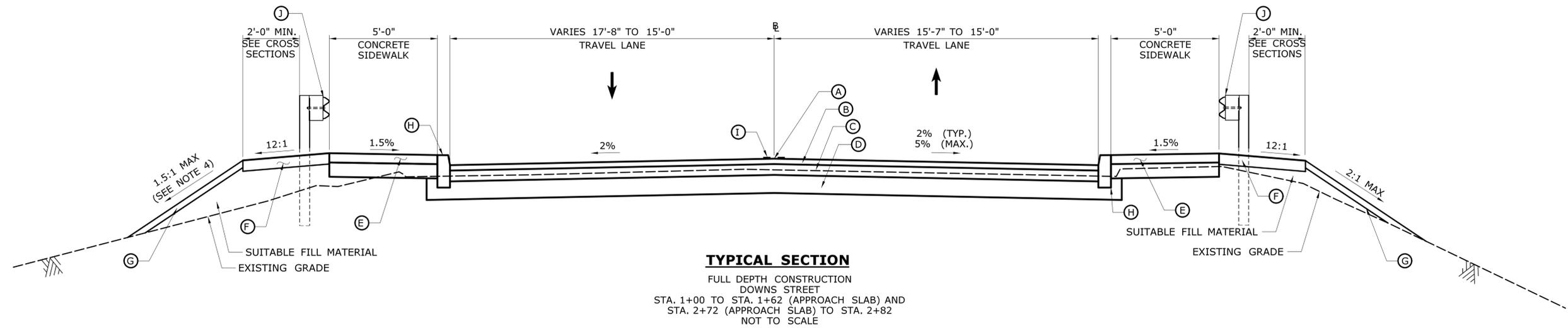
PAVEMENT TRANSITION DETAIL FOR PLACEMENT AT EXISTING PAVEMENT

NOT TO SCALE



RIPRAP FOR SLOPE PROTECTION DETAIL

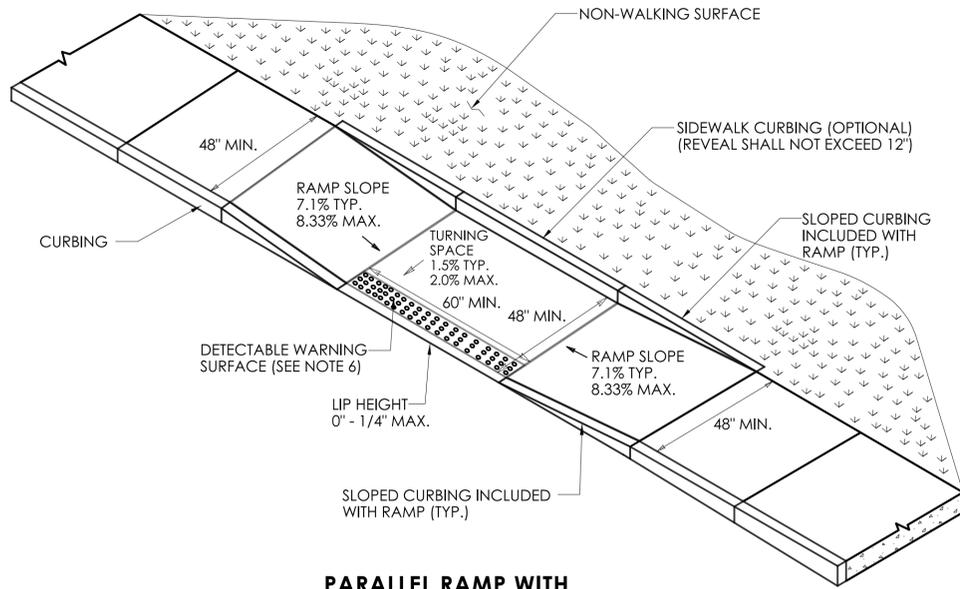
NOT TO SCALE



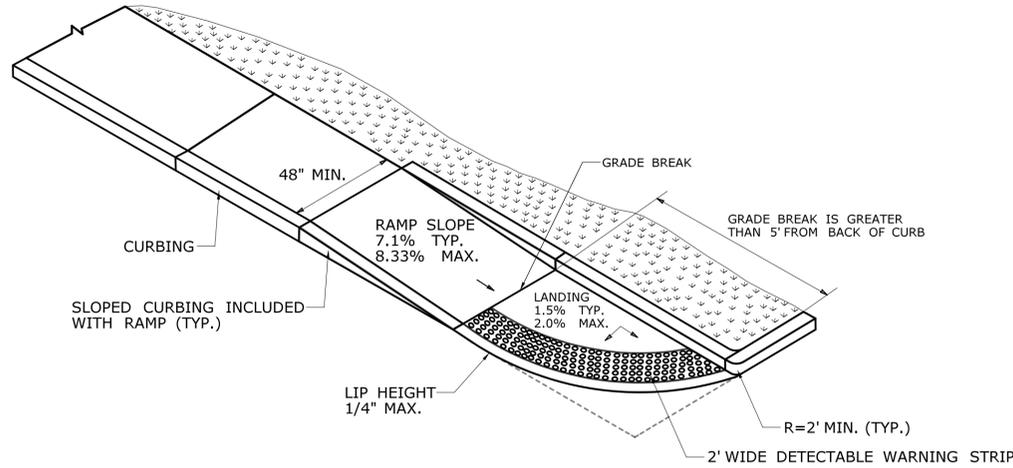
TYPICAL SECTION

FULL DEPTH CONSTRUCTION
DOWNS STREET
STA. 1+00 TO STA. 1+62 (APPROACH SLAB) AND
STA. 2+72 (APPROACH SLAB) TO STA. 2+82
NOT TO SCALE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: CCJ CHECKED BY: PMB SCALE AS NOTED	 CITY OF BRISTOL Filename: ...VHW_MSH_017_04104_TYP.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. TYP-01 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/2/2025	TYPICAL ROADWAY SECTION		



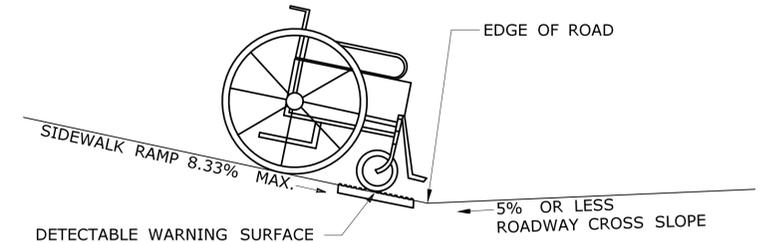
PARALLEL RAMP WITH TURNING SPACE CONSTRAINED ON TWO (2) OR MORE SIDES (TYPE 9)



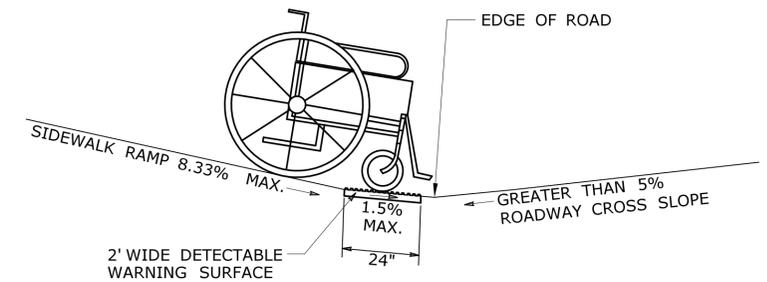
UNSIGNALIZED, NO STOP CONTROL OR YIELD DRIVEWAY CROSSING (TYPE 32)

GENERAL NOTES:

1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



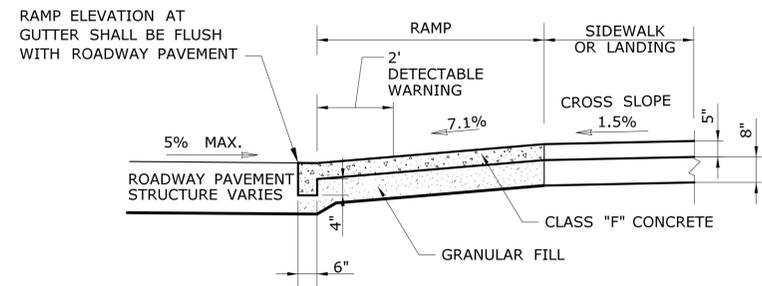
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS GUTTER COUNTER SLOPE



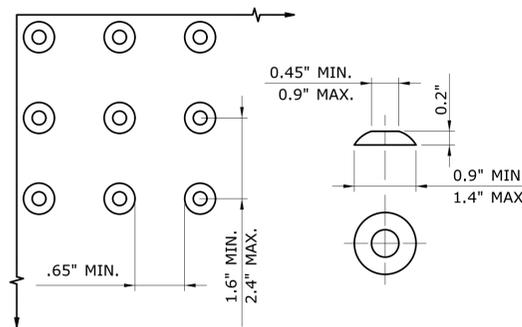
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5% GUTTER COUNTER SLOPE

GENERAL NOTES:

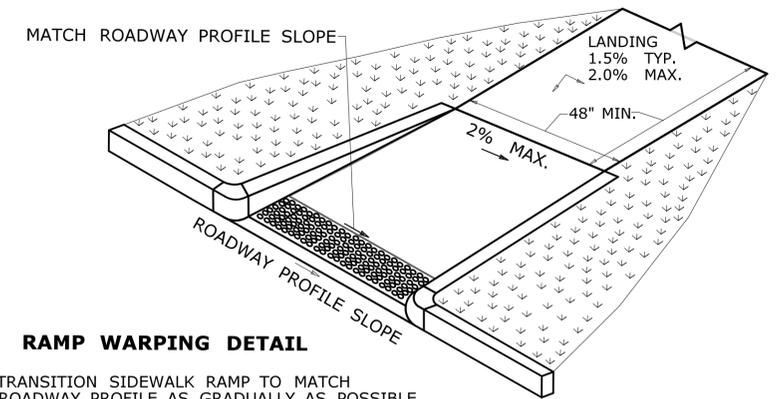
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.



TYPICAL SECTION THRU SIDEWALK RAMP
SEE NOTE 2 AND 13



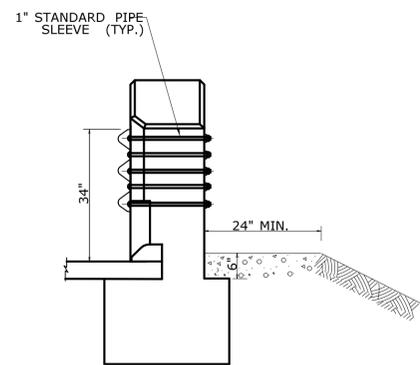
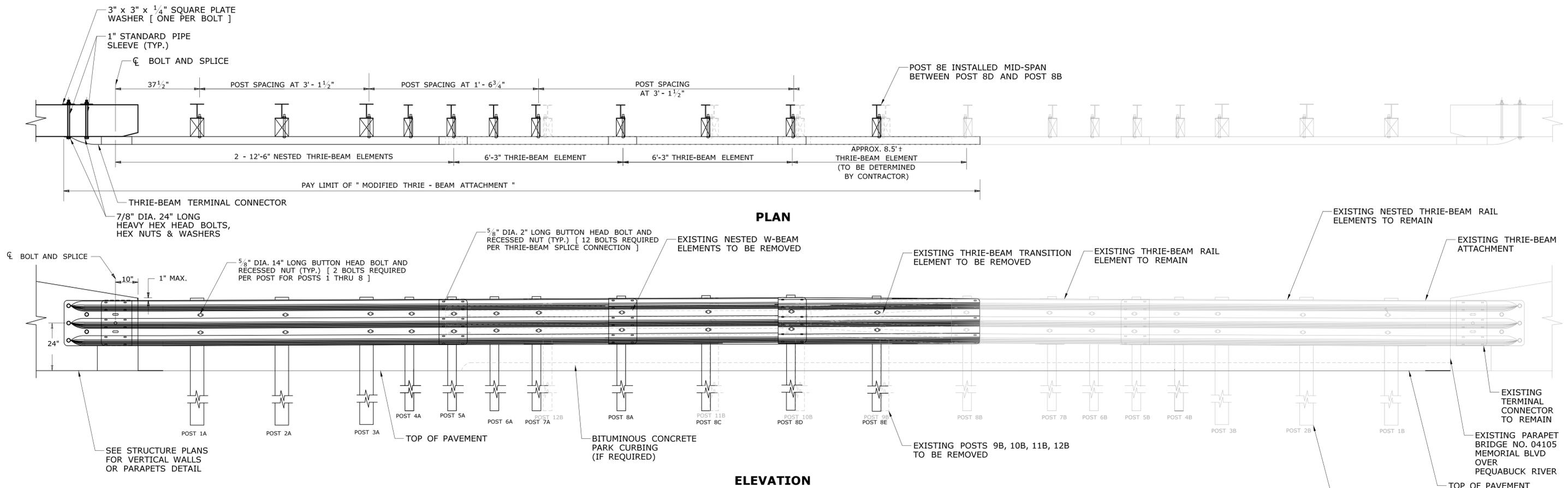
DOMES SPACING DOME SECTION
STANDARD DOME ON DETECTABLE WARNING SURFACE



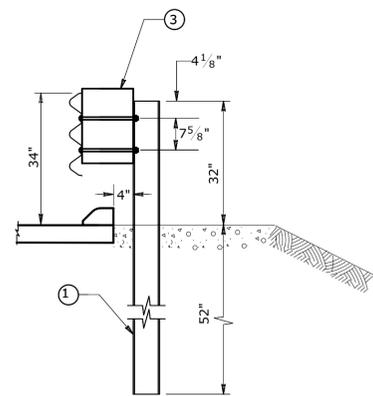
RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

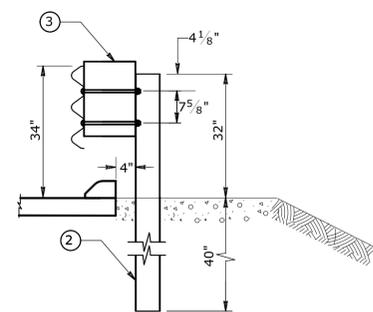
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/2/2025	DESIGNER/DRAFTER: CCJ	<p>CITY OF BRISTOL</p> <p>Filename: ...VHW_MSH_017_04104_MDS-01.dgn</p>	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF THE BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
					CHECKED BY: PMB					DRAWING TITLE: MISCELLANEOUS DETAILS - 1	DRAWING NO. MDS-01
					NOT TO SCALE					SHEET NO.	



THRIE BEAM CONNECTION



POST 1,2 & 3



POST 4,5,6,7 & 8

LEGEND

- ① W6 x 15, 7 FOOT LONG STEEL POST
- ② W6 x 8.5 OR W6 x 9, 6 FOOT LONG STEEL POST
- ③ 6" x 12" x 19" TREATED TIMBER BLOCKOUT

NOTES

1. "MODIFIED THRIE-BEAM ATTACHMENT" TO BE USED AT NORTHWEST CORNER OF BRIDGE NO. 04104/ SOUTHEAST CORNER OF BRIDGE NO. 04105 ONLY.
 - 1A. REMOVE POSTS 9B, 10B, 11B, AND 12B, THRIE-BEAM TRANSITION ELEMENT, NESTED W-BEAM ELEMENTS AND ASSOCIATED HARDWARE FROM THRIE-BEAM ATTACHMENT AT SOUTHEAST CORNER OF BRIDGE NO. 04105.
 - 1B. INSTALL POSTS 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 8C, AND 8D, THRIE-BEAM CONNECTOR TERMINAL, 2 - 12'-6" NESTED THRIE-BEAM ELEMENTS, 6'-3" THRIE-BEAM ELEMENTS AND ASSOCIATED HARDWARE AT NORTHWEST CORNER OF BRIDGE NO. 04104.
 - 1C. INSTALL REMAINING POST 8E AND THRIE-BEAM RAIL ELEMENT WITH ASSOCIATED HARDWARE.
2. FURNISHING AND INSTALLATION OF PARTS AND REMOVAL AND DISPOSAL OF EXISTING PARTS SHALL BE INCLUDED IN THE COST OF THE ITEM "MODIFIED THRIE-BEAM ATTACHMENT".
3. SEE CTDOT STANDARD HIGHWAY DRAWING HW-910-26 FOR THRIE-BEAM ATTACHMENT HARDWARE.
4. INSTALL THRIE-BEAM TERMINAL CONNECTOR BETWEEN NESTED GUIDERAIL ELEMENTS, UNLESS ON TRAILING END WHEN TERMINAL CONNECTOR IS INSTALLED OUTSIDE OF NESTED GUIDERAIL ELEMENTS.
5. PROVIDE 2 FOOT MINIMUM EMBANKMENT BETWEEN THE BACK OF THE GUIDERAIL POST(S) / CONCRETE BARRIER AND THE BREAK IN THE FILL SLOPE.
6. DELINEATORS SHALL BE INSTALLED ON THE POST CLOSEST TO THE DESIGNATED SPACING. SEE SHEET HW-910-20 FOR W-BEAM DELINEATOR DETAILS.

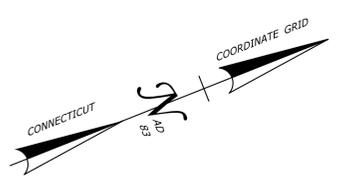
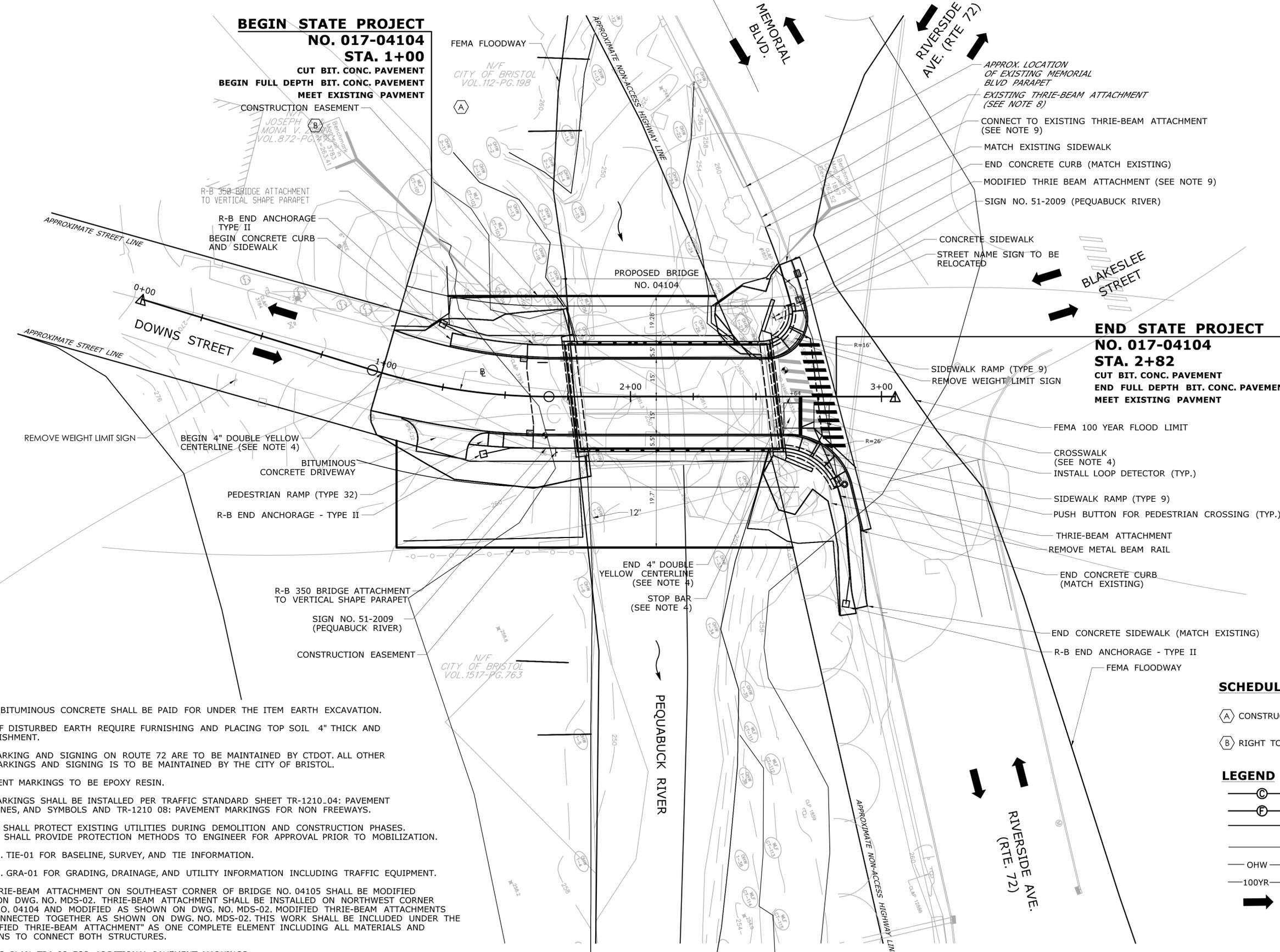
MODIFIED THRIE-BEAM ATTACHMENT

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: CCJ CHECKED BY: PMB	<p>CITY OF BRISTOL</p>	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF THE BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
NOT TO SCALE	Filename: ...\\HW_MSH_017_04104_MDS-02.dgn	SIGNATURE/ BLOCK:		PROJECT TITLE: REPLACEMENT OF THE BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	DRAWING TITLE: MISCELLANEOUS DETAILS - 2	DRAWING NO. MDS-02	SHEET NO.	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/2/2025

**BEGIN STATE PROJECT
NO. 017-04104
STA. 1+00**
CUT BIT. CONC. PAVEMENT
BEGIN FULL DEPTH BIT. CONC. PAVEMENT
MEET EXISTING PAVMENT

**END STATE PROJECT
NO. 017-04104
STA. 2+82**
CUT BIT. CONC. PAVEMENT
END FULL DEPTH BIT. CONC. PAVEMENT
MEET EXISTING PAVMENT



NOTES

- REMOVAL OF BITUMINOUS CONCRETE SHALL BE PAID FOR UNDER THE ITEM EARTH EXCAVATION.
- ALL AREAS OF DISTURBED EARTH REQUIRE FURNISHING AND PLACING TOP SOIL 4" THICK AND TURF ESTABLISHMENT.
- PAVEMENT MARKING AND SIGNING ON ROUTE 72 ARE TO BE MAINTAINED BY CTDOT. ALL OTHER PAVEMENT MARKINGS AND SIGNING IS TO BE MAINTAINED BY THE CITY OF BRISTOL.
- FINAL PAVEMENT MARKINGS TO BE EPOXY RESIN.
- PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEET TR-1210.04: PAVEMENT MARKINGS, LINES, AND SYMBOLS AND TR-1210.08: PAVEMENT MARKINGS FOR NON FREEWAYS.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION PHASES. CONTRACTOR SHALL PROVIDE PROTECTION METHODS TO ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION.
- SEE DWG. NO. TIE-01 FOR BASELINE, SURVEY, AND TIE INFORMATION.
- SEE DWG. NO. GRA-01 FOR GRADING, DRAINAGE, AND UTILITY INFORMATION INCLUDING TRAFFIC EQUIPMENT.
- EXISTING THRIE-BEAM ATTACHMENT ON SOUTHEAST CORNER OF BRIDGE NO. 04105 SHALL BE MODIFIED AS SHOWN ON DWG. NO. MDS-02. THRIE-BEAM ATTACHMENT SHALL BE INSTALLED ON NORTHWEST CORNER OF BRIDGE NO. 04104 AND MODIFIED AS SHOWN ON DWG. NO. MDS-02. MODIFIED THRIE-BEAM ATTACHMENTS SHALL BE CONNECTED TOGETHER AS SHOWN ON DWG. NO. MDS-02. THIS WORK SHALL BE INCLUDED UNDER THE ITEM "MODIFIED THRIE-BEAM ATTACHMENT" AS ONE COMPLETE ELEMENT INCLUDING ALL MATERIALS AND MODIFICATIONS TO CONNECT BOTH STRUCTURES.
- SEE TRAFFIC PLAN TRA-03 FOR ADDITIONAL PAVEMENT MARKINGS.

SCHEDULE OF RIGHTS

- (A) CONSTRUCTION EASEMENT ACQUIRED
- (B) RIGHT TO GRADE ACQUIRED

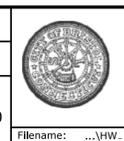
LEGEND

- ⊙ PROPOSED CUT LINE
- ⊕ PROPOSED FILL LINE
- SEDIMENTATION CONTROL SYSTEM
- STATE / FEDERAL WETLANDS
- OHW — ORDINARY HIGH WATER
- 100YR— EXISTING 100-YEAR FLOOD (CALCULATED)
- ➔ DIRECTION OF TRAFFIC ARROWS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
CCJ
CHECKED BY:
PMB
SCALE IN FEET
0 20 40
SCALE 1"=20'



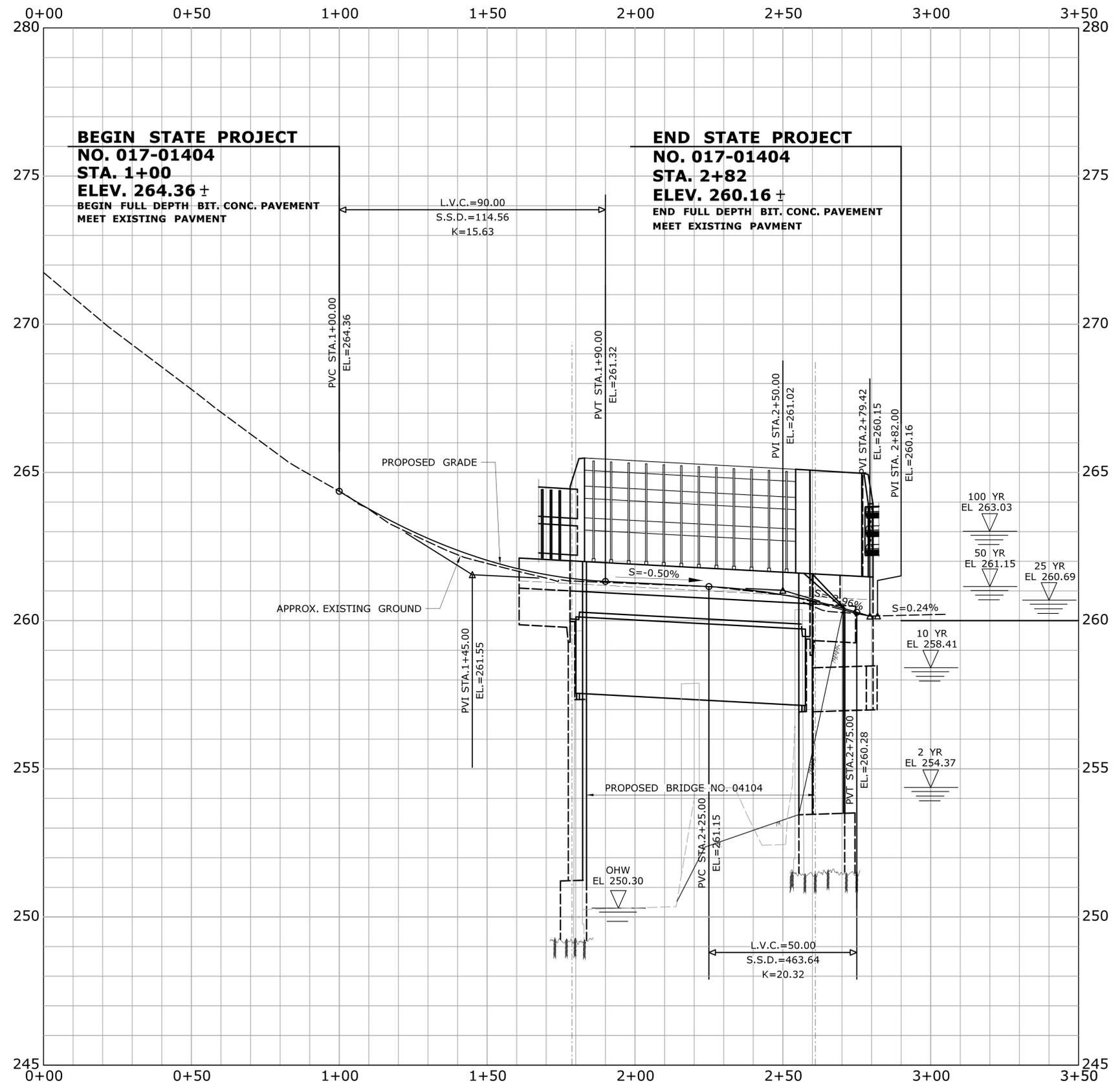
CITY OF BRISTOL
Filename: ...VHW_MSH_017_04104_PLN.dgn

SIGNATURE/
BLOCK:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04104
OVER PEQUABUCK RIVER**

TOWN:
BRISTOL
DRAWING TITLE:
ROADWAY PLAN

PROJECT NO.
017-04104
DRAWING NO.
HWY-01
SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

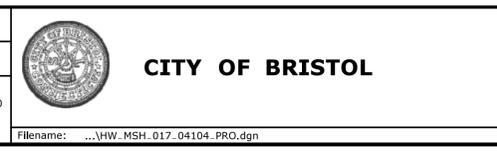
Plotted Date: 6/2/2025

DESIGNER/DRAFTER:
PMB

CHECKED BY:
ALM

HORIZ. SCALE IN FEET
0 20 40

VERT. SCALE IN FEET
0 2 4



SIGNATURE/
BLOCK:

GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04104
DOWNS STREET
OVER PEQUABUCK RIVER**

TOWN:
BRISTOL

DRAWING TITLE:
ROADWAY PROFILE

PROJECT NO.
017-04104

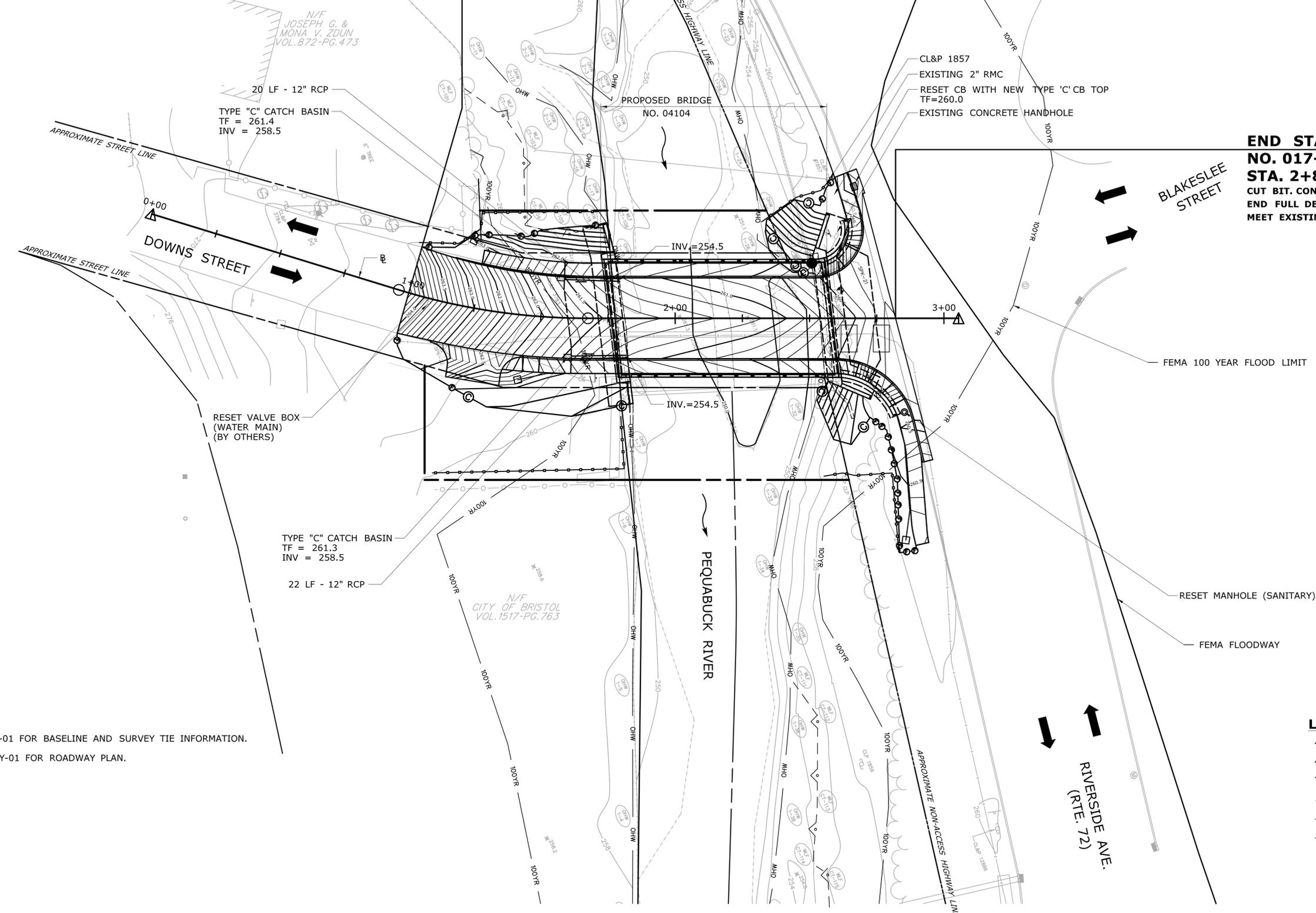
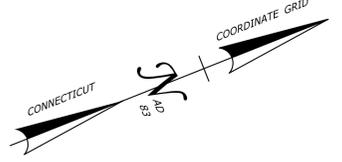
DRAWING NO.
PRO-01

SHEET NO.

BEGIN STATE PROJECT
NO. 017-04104
STA. 1+00
 CUT BIT. CONC. PAVEMENT
 BEGIN FULL DEPTH BIT. CONC. PAVEMENT
 MATCH EXISTING PAVMENT

N/F
 JOSEPH G. &
 MONA V. ZDUN
 VOL. 872-PG. 473

FEMA FLOODWAY
 N/F
 CITY OF BRISTOL
 VOL. 112-PG. 198



END STATE PROJECT
NO. 017-04104
STA. 2+82
 CUT BIT. CONC. PAVEMENT
 END FULL DEPTH BIT. CONC. PAVEMENT
 MEET EXISTING PAVMENT

20 LF - 12" RCP
 TYPE "C" CATCH BASIN
 TF = 261.4
 INV = 258.5

RESET VALVE BOX
 (WATER MAIN)
 (BY OTHERS)

TYPE "C" CATCH BASIN
 TF = 261.3
 INV = 258.5

22 LF - 12" RCP

N/F
 CITY OF BRISTOL
 VOL. 1517-PG. 763

CL&P 1857
 EXISTING 2" RMC
 RESET CB WITH NEW TYPE 'C' CB TOP
 TF=260.0
 EXISTING CONCRETE HANDHOLE

FEMA 100 YEAR FLOOD LIMIT

RESET MANHOLE (SANITARY)

FEMA FLOODWAY

NOTES

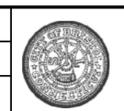
1. SEE TIE-01 FOR BASELINE AND SURVEY TIE INFORMATION.
2. SEE HWY-01 FOR ROADWAY PLAN.

LEGEND

	PROPOSED CUT LINE
	PROPOSED FILL LINE
	SEDIMENTATION CONTROL SYSTEM
	STATE / FEDERAL WETLANDS
	ORDINARY HIGH WATER
	EXISTING 100-YEAR FLOOD (CALCULATED)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/10/2025

DESIGNER/DRAFTER:
CCJ
 CHECKED BY:
PMB
 SCALE IN FEET
 0 20 40
 SCALE 1"=20'



CITY OF BRISTOL

SIGNATURE/
 BLOCK:
 GM2 ASSOCIATES, INC.
 115 GLASTONBURY BLVD.
 GLASTONBURY, CT 06033

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04104
 OVER PEQUABUCK RIVER**

TOWN:
BRISTOL
 DRAWING TITLE:
**GRADING & UTILITY
 PLAN**

PROJECT NO.
017-04104
 DRAWING NO.
GRA-01
 SHEET NO.

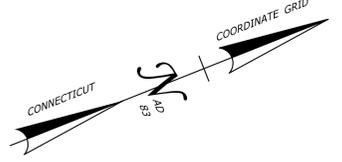
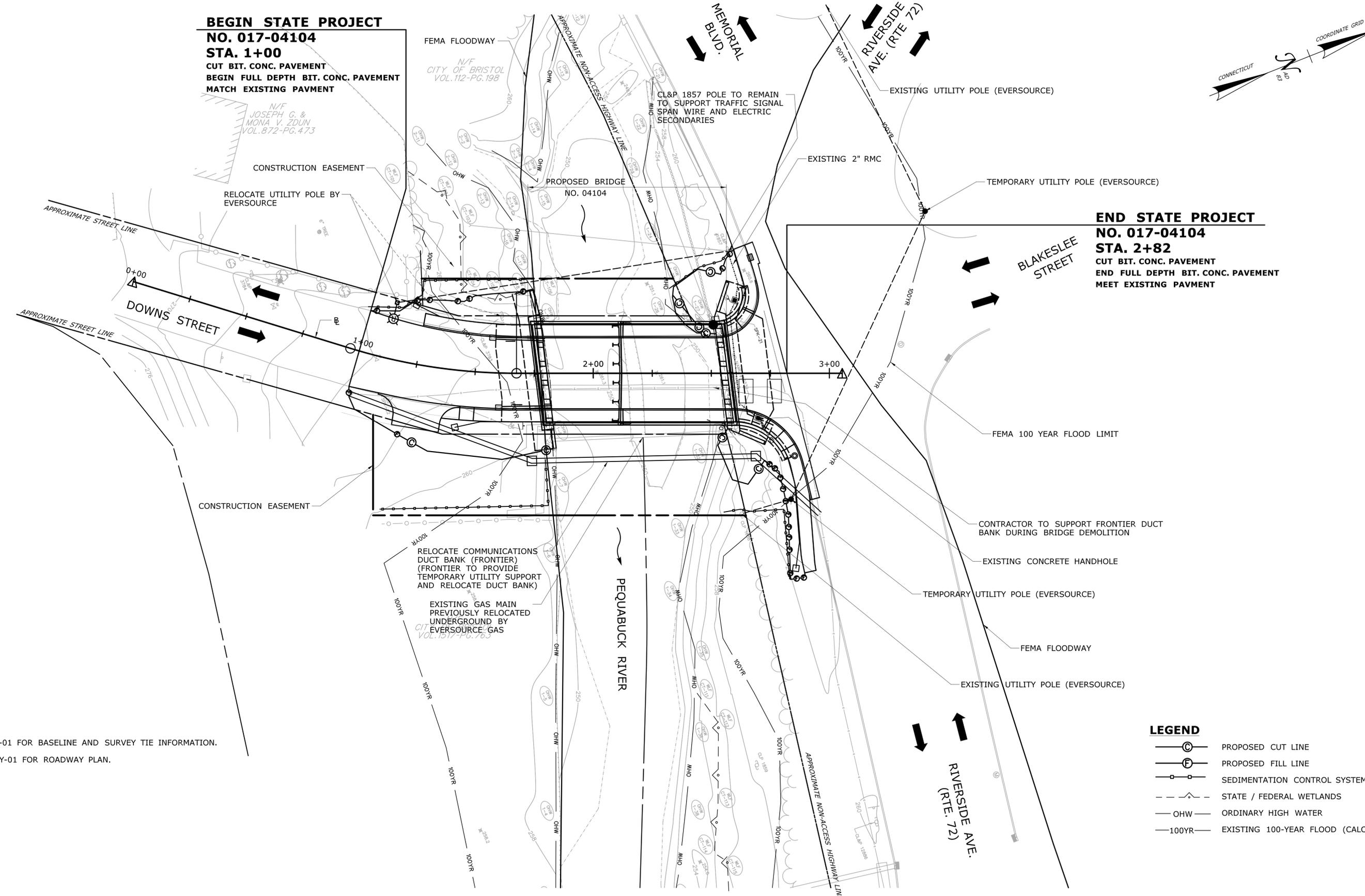
BEGIN STATE PROJECT
NO. 017-04104
STA. 1+00
 CUT BIT. CONC. PAVEMENT
 BEGIN FULL DEPTH BIT. CONC. PAVEMENT
 MATCH EXISTING PAVMENT

N/F
 JOSEPH G. &
 MONA V. ZDUN
 VOL. 872-PG. 473

FEMA FLOODWAY
 N/F
 CITY OF BRISTOL
 VOL. 112-PG. 198

CL&P 1857 POLE TO REMAIN
 TO SUPPORT TRAFFIC SIGNAL
 SPAN WIRE AND ELECTRIC
 SECONDARIES

END STATE PROJECT
NO. 017-04104
STA. 2+82
 CUT BIT. CONC. PAVEMENT
 END FULL DEPTH BIT. CONC. PAVEMENT
 MEET EXISTING PAVMENT



NOTES

1. SEE TIE-01 FOR BASELINE AND SURVEY TIE INFORMATION.
2. SEE HWY-01 FOR ROADWAY PLAN.

- LEGEND**
- ⊙ PROPOSED CUT LINE
 - ⊕ PROPOSED FILL LINE
 - SEDIMENTATION CONTROL SYSTEM
 - - - STATE / FEDERAL WETLANDS
 - OHW — ORDINARY HIGH WATER
 - 100YR— EXISTING 100-YEAR FLOOD (CALCULATED)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/10/2025

DESIGNER/DRAFTER:
CNV
 CHECKED BY:
PMB
 SCALE IN FEET
 0 20 40
 SCALE 1"=20'

 **CITY OF BRISTOL**

Signature/Block: _____
 GM2 ASSOCIATES, INC.
 115 GLASTONBURY BLVD.
 GLASTONBURY, CT 06033

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04104
 OVER PEQUABUCK RIVER**

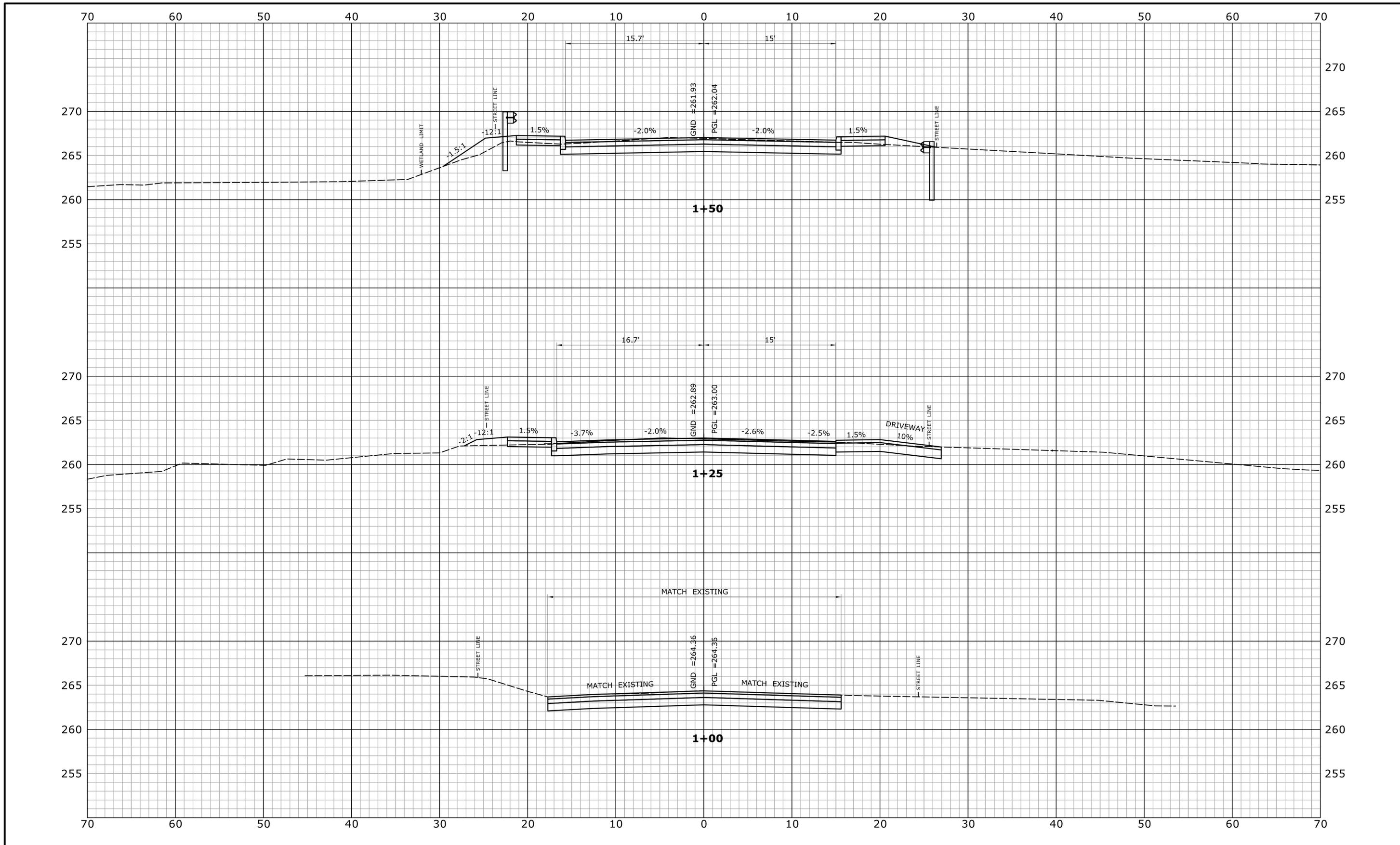
TOWN:
BRISTOL

DRAWING TITLE:
**TEMPORARY UTILITY
 RELOCATION PLAN**

PROJECT NO.
017-04104

DRAWING NO.
UTL-01

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/10/2025

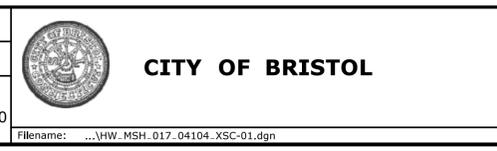
DESIGNER/DRAFTER:
CCJ

CHECKED BY:
PMB

SCALE IN FEET

0 5 10

SCALE 1" = 5'



SIGNATURE/
BLOCK:

GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD
GLASTONBURY, CT 06033

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04104
DOWNS STREET
OVER PEQUABUCK RIVER**

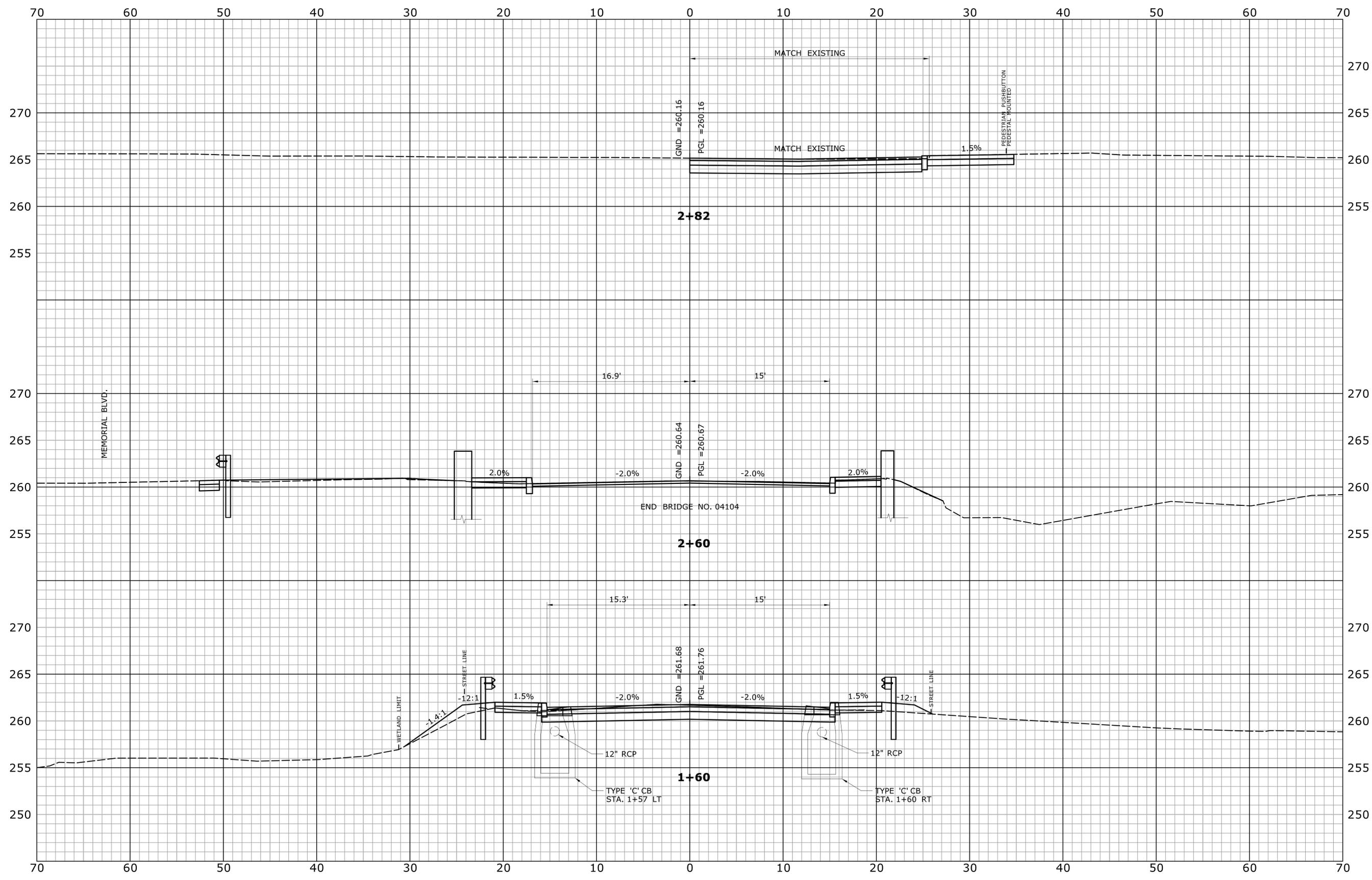
TOWN:
BRISTOL

DRAWING TITLE:
CROSS SECTION - 1

PROJECT NO.
017-04104

DRAWING NO.
XSC-01

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/10/2025

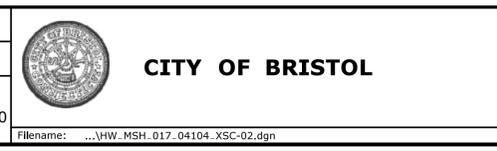
DESIGNER/DRAFTER:
CCJ

CHECKED BY:
PMB

SCALE IN FEET

0 5 10

SCALE 1" = 5'



SIGNATURE/
BLOCK:

GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD
GLASTONBURY, CT 06033

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 04104
DOWNS STREET
OVER PEQUABUCK RIVER**

TOWN: **BRISTOL**

DRAWING TITLE:
CROSS SECTION - 2

PROJECT NO.
017-04104

DRAWING NO.
XSC-02

SHEET NO.

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 DATED 2024; SUPPLEMENTAL SPECIFICATION DATED JANUARY 2025 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (10TH EDITION - 2024), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE AND ROADWAY STRUCTURES DESIGN MANUAL (2025).

MATERIAL STRENGTHS:

CONCRETE:
 CLASS PCC 03340 $f_c = 3,000$ psi
 CLASS PCC 04460 $f_c = 4,000$ psi
 CLASS PCC 04462 $f_c = 4,000$ psi

THE CONCRETE STRENGTH, f_c , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01- CONCRETE FOR STRUCTURES AND M.03- PORTLAND CEMENT CONCRETE.

REINFORCEMENT: (ASTM A615 GRADE 60)..... $f_y = 60,000$ PSI

STRUCTURAL STEEL: (AASHTO M270, GRADE 50)..... $f_y = 50,000$ PSI

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES.

FUTURE PAVING ALLOWANCE: NONE.

STRUCTURAL STEEL: SEE STRUCTURAL STEEL NOTES ON DWG STR-10 FOR DESIGNATIONS AND REQUIREMENTS.

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS; THE FIRST SHALL BE "HMA S0.25 TRAFFIC LEVEL 2 (1" THICK) AND THE SECOND LIFT SHALL BE "HMA S0.5 TRAFFIC LEVEL 2 (2" THICK) .

FOUNDATION PRESSURES: THE LIMIT STATES NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO LOAD COMBINATIONS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

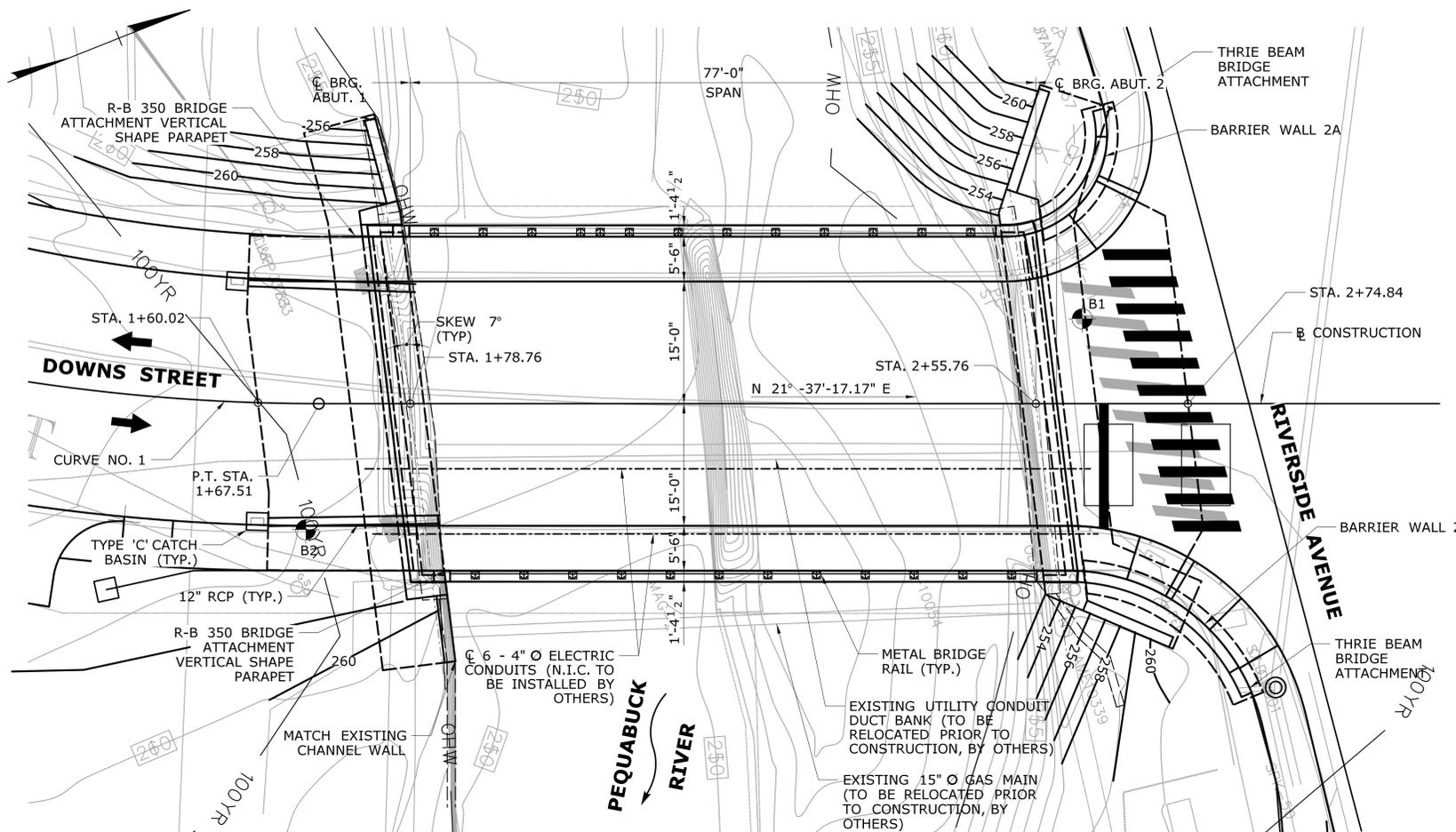
EXISTING BRIDGE: THE WORK FOR REMOVAL OF THE EXISTING SUPERSTRUCTURE SHALL BE INCLUDED AND PAID FOR UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE". THE WORK FOR REMOVAL OF EXISTING ABUTMENTS, PIER, AND WINGWALLS SHALL BE PAID FOR UNDER ITEM "REMOVAL OF EXISTING MASONRY".

UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION: FRONTIER COMMUNICATIONS AND EVERSOURCE ENERGY GAS. THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH CONCRETE END BLOCK ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE RETROREFLECTIVE BLOCK LETTERS ON GREEN RETROREFLECTIVE SHEETING. EACH SIGN SHALL READ 04104. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER ITEM #1208937- SIGN FACE SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING). THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ATTACHMENT.

CONCRETE NOTES:

FOR CONCRETE NOTES SEE NEXT SHEET.

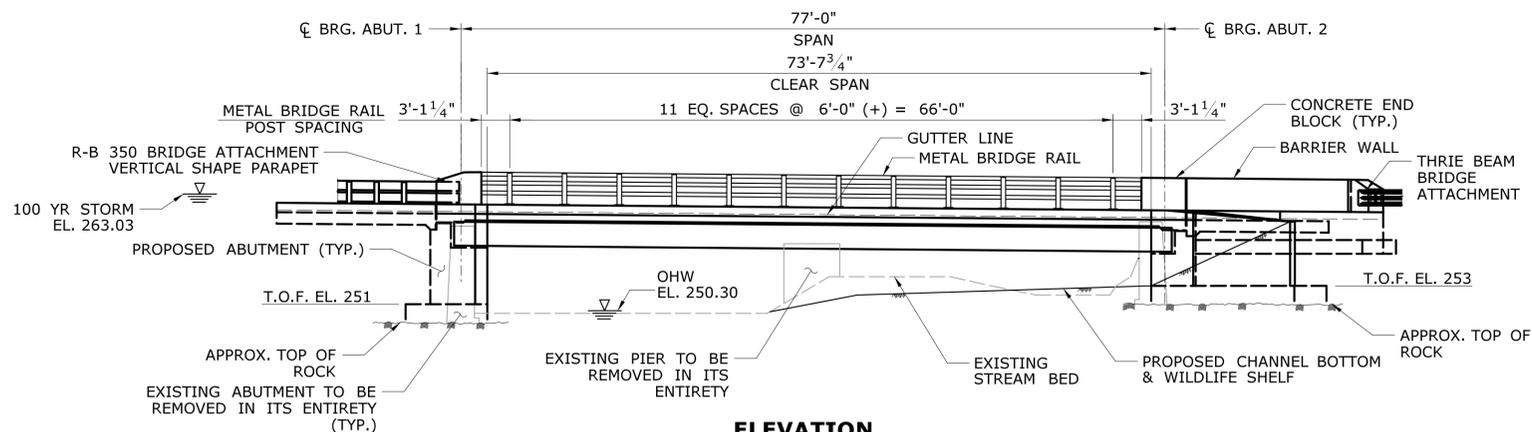


LEGEND:

SOIL BORING LOCATION

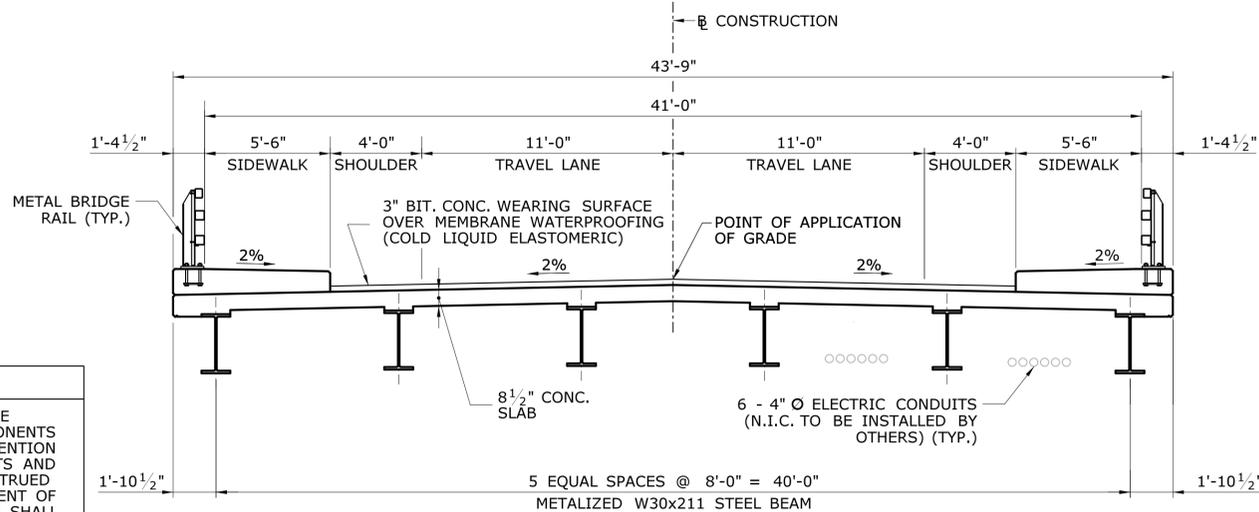
PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"



TYPICAL SECTION

SCALE: 1/4" = 1'-0"

CONCRETE DISTRIBUTION

SUPERSTRUCTURE	C.Y.	176
SUBSTRUCTURE	C.Y.	203
FOOTINGS	C.Y.	104
TOTAL	C.Y.	483

INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
ULTRASONIC	IN	0
MAGNETIC PARTICLE	IN	0

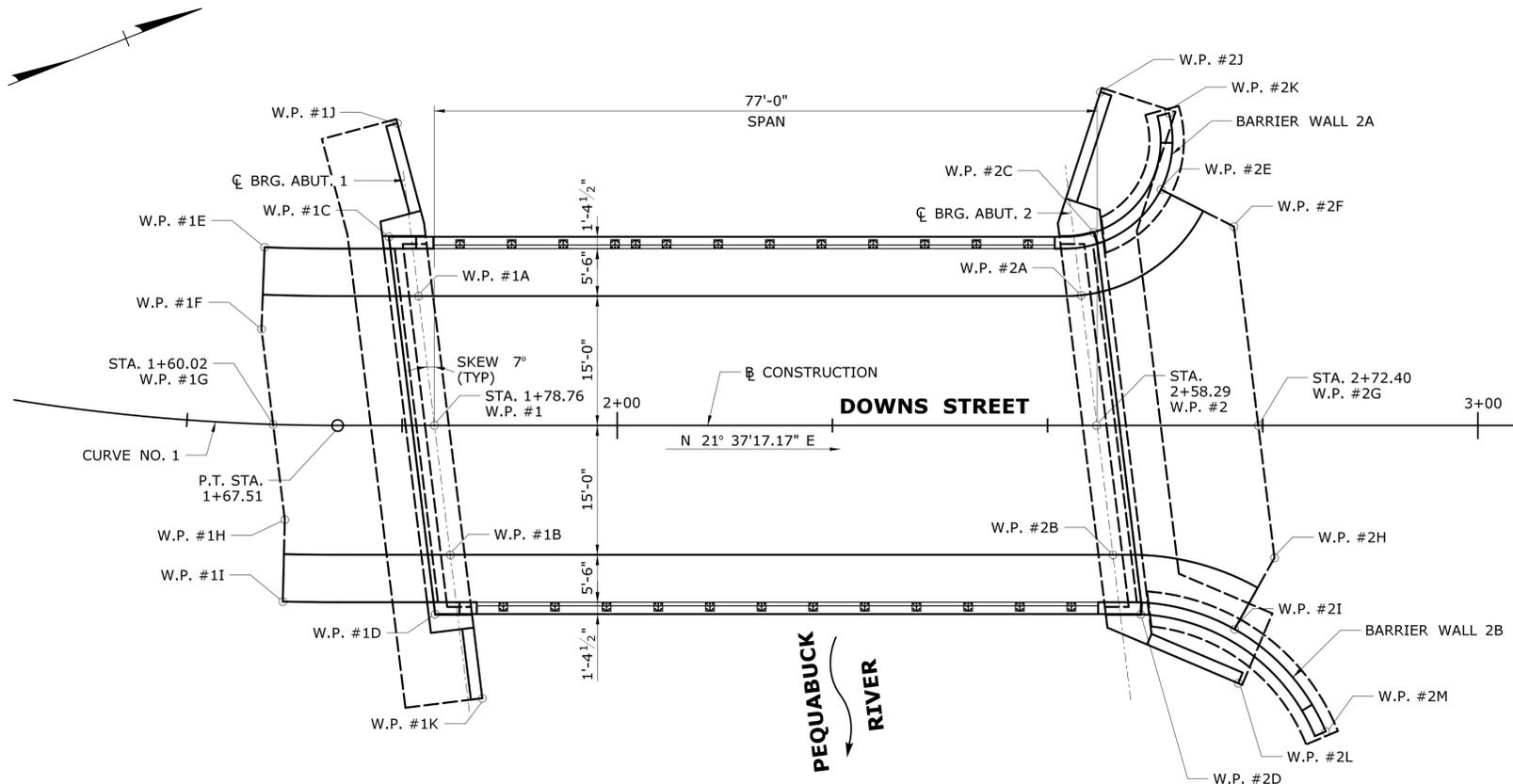
NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUAL FOR BRIDGE INSPECTION, ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS, (THE LISTING FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF SAFETY AND EVALUATION.

COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
FOLLOW NORMAL INSPECTION PROCEDURES	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SD	CITY OF BRISTOL	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
	CHECKED BY: VLL				DRAWING TITLE: GENERAL PLAN	DRAWING NO. STR-01
SCALE AS NOTED	FILENAME: ...SB_MSH_Br04104_017_04104_GPN_Steel.dgn					SHEET NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025



HORIZONTAL CURVE 1	
Δ	17° -02'-31"
R	240 FT.
T	35.96 FT.
L	71.38 FT.
P.T. STA.	1+67.51

LAYOUT PLAN
SCALE: 1" = 10'

HYDRAULIC DATA	
DRAINAGE AREA	25.3 SQ. MI.
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	6370 CFS
AVERAGE DAILY FLOW ELEVATION	251.63 FT.
UPSTREAM DESIGN WATER SURFACE ELEVATION	263.03 FT.
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	260.82 FT.
MAXIMUM SCOUR ELEVATION	-
FREQUENCY	-
DISCHARGE	-
WORST CASE SCOUR SUBSTRUCTURE UNIT	-

ROLLED STEEL BEAM SHIPPING DATA			
MAX SHIPPING LENGTH	MAX SHIPPING HEIGHT	MAX SHIPPING WIDTH	MAX SHIPPING WEIGHT
78'-6"	2'-7"	1'-3 1/8"	18200 LB

WORKING POINT COORDINATES			
W.P.#	NORTH	EAST	DESCRIPTION
1	804712.936	951674.506	☉ BEARINGS AT ABUTMENT 1 AND BASELINE
1A	804716.751	951659.883	☉ BEARINGS AT ABUTMENT 1 GUTTERLINE
1B	804709.121	951689.129	☉ BEARINGS AT ABUTMENT 1 GUTTERLINE
1C	804716.080	951652.222	BEGIN DECK AT ABUTMENT 1
1D	804704.953	951694.873	BEGIN DECK AT ABUTMENT 1
1E	804702.211	951648.027	APPROACH SLAB BEGIN
1F	804698.371	951656.717	APPROACH SLAB BEGIN
1G	804695.560	951667.493	APPROACH SLAB BEGIN AND BASELINE
1H	804692.752	951678.258	APPROACH SLAB BEGIN
1I	804689.037	951687.001	APPROACH SLAB BEGIN
1J	804721.844	951640.347	END WW1A
1K	804706.451	951705.965	END WW1B
2	804784.518	951702.879	☉ BEARINGS AT ABUTMENT 2 AND BASELINE
2A	804788.358	951688.159	☉ BEARINGS AT ABUTMENT 2 GUTTERLINE
2B	804780.703	951717.502	☉ BEARINGS AT ABUTMENT 2 GUTTERLINE
2C	804792.398	951681.919	END DECK AT ABUTMENT 2
2D	804781.152	951725.102	END DECK AT ABUTMENT 2
2E	804801.491	951680.182	END APPROACH SLAB
2F	804807.789	951687.294	END APPROACH SLAB
2G	804801.924	951709.778	END APPROACH SLAB AND BASELINE
2H	804798.023	951724.728	END APPROACH SLAB
2I	804790.654	951730.723	END APPROACH SLAB
2J	804799.124	951667.078	END WW2A
2K	804805.619	951672.279	END BARRIER WALL 2A
2L	804788.738	951736.708	END WW2B
2M	804796.143	951745.659	END BARRIER WALL 2B

NOTE: FOR WORKING POINTS AT THE INTERSECTION OF CENTERLINES OF BEARINGS AT ABUTMENTS AND CENTERLINES OF BEAMS, SEE FRAMING PLAN AT DWG. STR-10.

CONCRETE NOTES:

ITEM	BRIDGE COMPONENT	PCC CLASS
ABUTMENT AND WALL CONCRETE	ABUTMENT AND WINGWALL STEMS, BEARING PEDESTALS, AND KEEPER BLOCKS	PCC 03340
FOOTING CONCRETE	ABUTMENT AND WINGWALL FOOTINGS	PCC 03340
APPROACH SLAB CONCRETE	APPROACH SLABS AND APPROACH SIDEWALKS	PCC 04462
BRIDGE DECK CONCRETE	BRIDGE DECK	PCC 04462
BRIDGE SIDEWALK CONCRETE	BRIDGE SIDEWALKS	PCC 04462
PARAPET CONCRETE	END BLOCKS	PCC 04462
BARRIER WALL CONCRETE	BARRIER WALLS (INCLUDING FOOTING, STEM AND PARAPET)	PCC 04460

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK SLAB. TEMPORARY SUPPORTS MAY BE USED FOR STRUCTURAL STEEL ERECTION ONLY. CONSTRUCTION LOADS AND DEAD LOADS WILL BE PERMITTED WHEN DIRECTED BY THE ENGINEER BUT ONLY WHEN THE CONCRETE HAS REACHED A STRENGTH OF $f'_c=3500$ PSI. LIVE LOAD (TRAFFIC) WILL BE PERMITTED ON THE STRUCTURE AFTER THE CONCRETE HAS REACHED A STRENGTH OF $f'_c=4000$ PSI.

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

FELT: THE COST OF FURNISHING AND PLACING 15-POUND ROOFING FELT IS INCLUDED IN THE ITEM "BRIDGE DECK CONCRETE"

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEMS "1 INCH PREFORMED EXPANSION JOINT FILLER FOR BRIDGES" AND "1/2 INCH PREFORMED EXPANSION JOINT FILLER FOR BRIDGES".

CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE ITEM "1 INCH CLOSED CELL ELASTOMER".

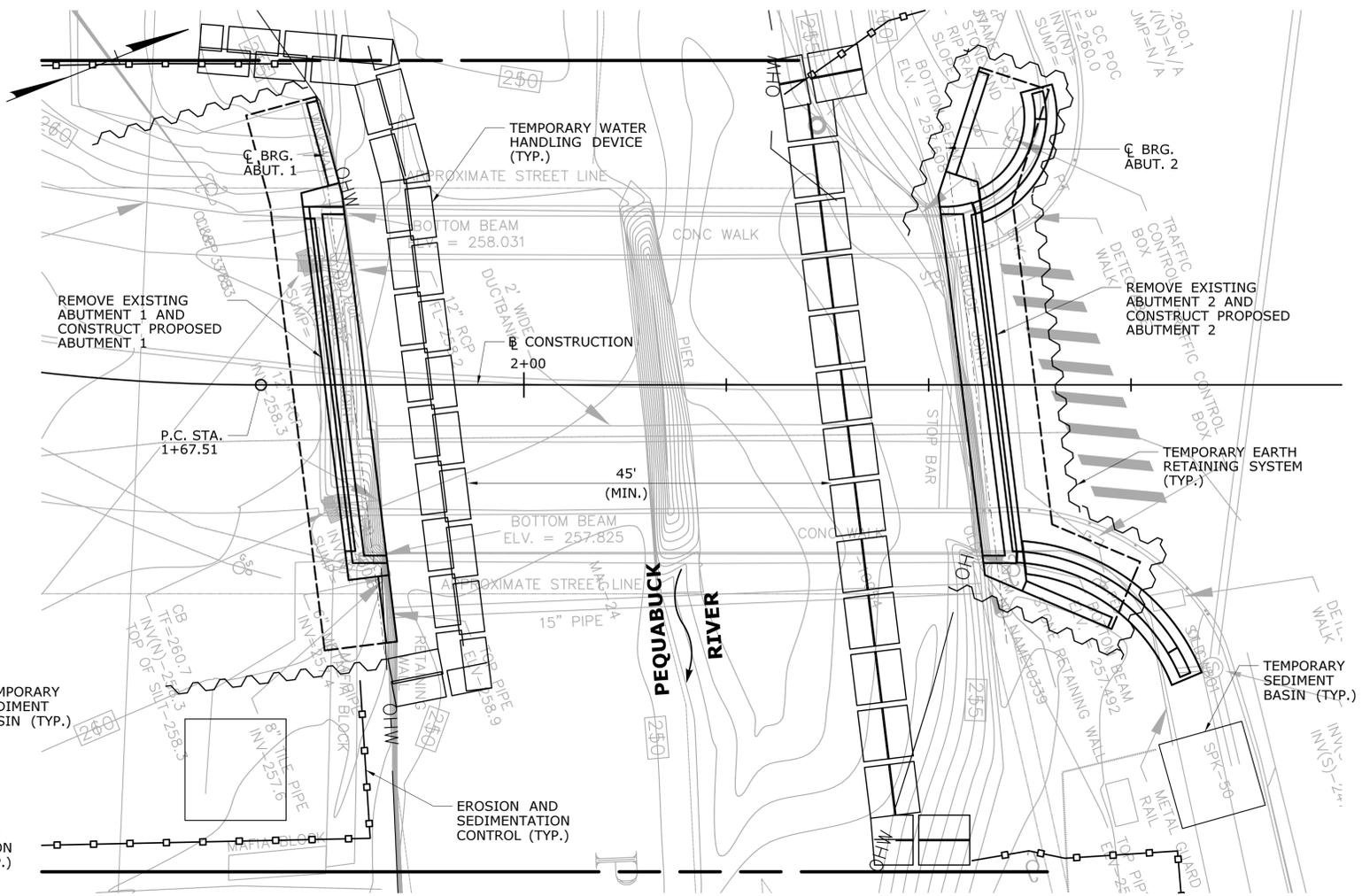
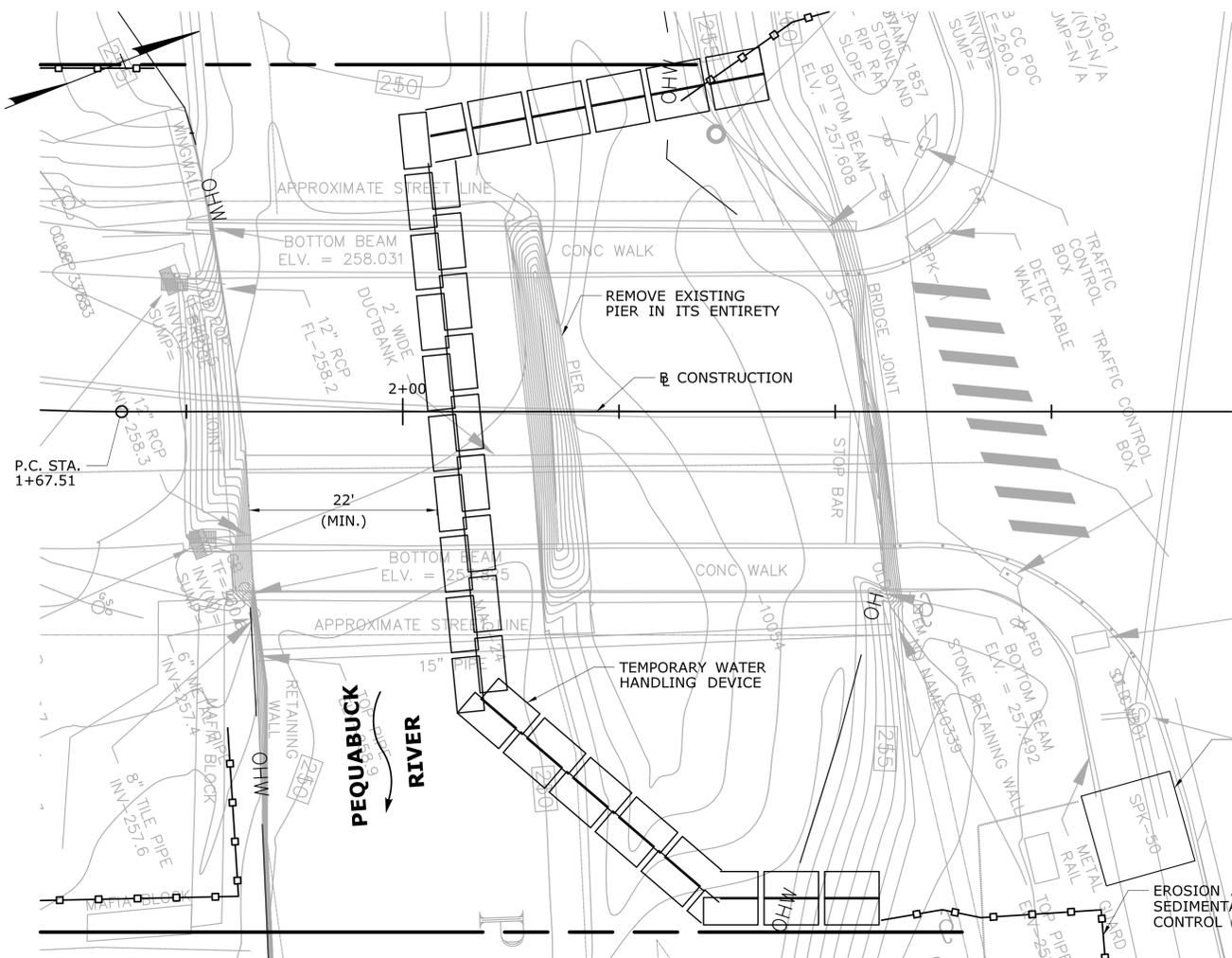
CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

DESIGNER/DRAFTER: SKS	CITY OF BRISTOL	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
CHECKED BY: VLL				DRAWING TITLE: LAYOUT PLAN	DRAWING NO. STR-02
SCALE AS NOTED	Plotted Date: 4/16/2025	Filename: ...\\SB_MSH_Br04104_017_04104_LAYOUT_Steel.dgn			SHEET NO.

BORING LOG NO. B-1		Page 1 of 1	
PROJECT: Downs Street Bridge Replacement		CLIENT: GM2 Associates, Inc. Glastonbury, Connecticut	
SITE: Downs Street Bristol, Connecticut			
GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 41.6697° Longitude: -72.9268° Approximate Surface Elev: 262 (Ft.) +/-	DEPTH (FL.)	WATER LEVEL OBSERVATIONS
	ELEVATION (FL.)		
0.7	BITUMINOUS CONCRETE 261.5+/-		
1.2	GRAVEL BASE 261+/-		
	FILL - POORLY GRADED SAND WITH SILT AND GRAVEL, occasional cobbles, deleterious materials (wood fragments), black to gray, loose to medium dense		
		14	10-10-10-9 N=20
		10	3-3-2-4 N=5
5.0	WELL-GRADED SAND WITH SILT (SW-SM), occasional cobbles, gray to brown, loose	5	
		14	2-2-3-3 N=5
7.5	SEVERELY WEATHERED ROCK gray to brown		
		15	4-46-50/4"
		60	Core Rate (min/ft): 3-3-4-4-4 RQD=79%
		60	Core Rate (min/ft): 4-4-4-4-4 RQD=100%
11.0	Hard, slightly weathered, gray, fine- to medium-grained mica SCHIST, foliations dip at high angle.		
21.0	Boring Terminated at 21 Feet 241+/-		
Stratification lines are approximate. In-situ, the transition may be gradual. Samples taken with 2" outside-diameter split spoon sampler driven by an autohammer. Hammer Type: Automatic			
Advancement Method: 2 1/4-inch inside diameter hollow-stem augers to 11 feet, then 4-inch diameter flush wall casing set and NQ-2 sized core barrel advanced to 21 feet.		Notes:	
Abandonment Method: Boring backfilled with soil cuttings upon completion, asphalt restored using "cold patch" asphalt.		See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	
WATER LEVEL OBSERVATIONS		Boring Started: 9/10/2016 Boring Completed: 9/10/2016	
8 feet while drilling.		Drill Rig: CME 75 Driller: J. Doreau	
		Project No.: J2165141 Exhibit: A-4	

BORING LOG NO. B-2		Page 1 of 1	
PROJECT: Downs Street Bridge Replacement		CLIENT: GM2 Associates, Inc. Glastonbury, Connecticut	
SITE: Downs Street Bristol, Connecticut			
GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 41.66943° Longitude: -72.92684° Approximate Surface Elev: 262 (Ft.) +/-	DEPTH (FL.)	WATER LEVEL OBSERVATIONS
	ELEVATION (FL.)		
0.5	BITUMINOUS CONCRETE 261.5+/-		
1.0	GRAVEL BASE 261+/-		
	FILL - SILTY SAND WITH GRAVEL, gray to brown, medium dense		
		12	12-4-6-4 N=10
		14	8-14-12-7 N=26
5.0		5	
		0	14-12-11-10 N=23
		10	6-6-7-8 N=13
9.0	POORLY GRADED SAND WITH GRAVEL (SP), gray to brown, medium dense		
		16	12-14-16-28 N=30
11.0	SEVERELY WEATHERED ROCK gray to brown, very dense		
		16	14-18-37-50/2" N=55
		53	Core Rate (min/ft): 4-4-6-8-8 RQD=56%
13.0	Hard, slightly weathered, gray, fine- to medium-grained mica SCHIST, foliations dip at high angle.		
	Note: Significant water loss through vertical fractures while coring.		
18.0	Boring Terminated at 18 Feet 244+/-		
Stratification lines are approximate. In-situ, the transition may be gradual. Samples taken with 2" outside-diameter split spoon sampler driven by an autohammer. Hammer Type: Automatic			
Advancement Method: 2 1/4-inch inside diameter hollow-stem augers to 13 feet, then 4-inch diameter flush wall casing set and NQ-2 sized core barrel advanced to 18 feet.		Notes:	
Abandonment Method: Boring backfilled with soil cuttings upon completion, asphalt restored using "cold patch" asphalt.		See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	
WATER LEVEL OBSERVATIONS		Boring Started: 9/10/2016 Boring Completed: 9/10/2016	
7 feet while drilling.		Drill Rig: CME 75 Driller: J. Doreau	
		Project No.: J2165141 Exhibit: A-5	

DESIGNER/DRAFTER: SKS	CITY OF BRISTOL	SIGNATURE/BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO.: 017-04104
CHECKED BY: VLL					DRAWING TITLE: BORING LOGS	DRAWING NO.: STR-03
SCALE AS NOTED						SHEET NO.
Plotted Date: 4/16/2025	Filename: ...\\SB_MSH_Br04104_017_04104 BOR_Steel.dgn					



SUGGESTED SEQUENCE OF CONSTRUCTION

THE FOLLOWING IS THE SUGGESTED SEQUENCE OF CONSTRUCTION THAT MAY BE FOLLOWED. THE CONTRACTOR SHALL SUBMIT HIS SEQUENCE OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL.

PRE-STAGE 1

1. INSTALL DETOUR SIGNS AND PLACE TEMPORARY PRECAST CONCRETE BARRIER CURBS, CLOSING DOWNS STREET TO THROUGH TRAFFIC. PRIOR TO ANY ROAD CLOSURE, THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF BRISTOL. SEE SPECIAL PROVISIONS FOR THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC" AND THE DETOUR PLAN FOR ADDITIONAL REQUIREMENTS.
2. INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROLS.
3. INSTALL DEBRIS SHIELD AND REMOVE EXISTING SUPERSTRUCTURE. THE BOTTOM OF DEBRIS SHIELD SHALL BE NO LOWER THAN EL. 255.
4. REMOVE DEBRIS SHIELD.

STAGE 1

1. INSTALL TEMPORARY WATER HANDLING DEVICES FOR STAGE 1 TO THE LIMITS SHOWN ON THIS PLAN. SEE WATERHANDLING NOTES FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING PIER IN ITS ENTIRETY.
3. REMOVE AGGRADATION FROM NORTHERN PART OF THE EXISTING STREAM BED. FOR PROPOSED STREAM BED GRADING, SEE DWG. GRA-01.

STAGE 2

1. RELOCATE TEMPORARY WATER HANDLING DEVICES, INSTALLED IN STAGE 1, TO THE NEW LOCATION, AS SHOWN ON THIS PLAN. INSTALL WATERHANDLING DEVICES IN FRONT OF ABUTMENT 1 AND TEMPORARY EARTH RETAINING SYSTEMS TO THE LIMITS SHOWN ON THIS PLAN. SEE WATERHANDLING NOTES FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING ABUTMENTS AND WINGWALLS IN THEIR ENTIRETIES.
3. CONSTRUCT AND BACKFILL PROPOSED ABUTMENTS AND WINGWALLS.
4. REMOVE TEMPORARY WATER HANDLING DEVICES AND TEMPORARY EARTH RETAINING SYSTEMS.

POST STAGE 2

1. INSTALL BEARINGS, STEEL BEAMS, AND DIAPHRAGMS.
2. POUR DECK CONCRETE.
3. CONSTRUCT APPROACH SLABS, SIDEWALKS, END BLOCKS, AND BARRIER WALLS. INSTALL METAL BRIDGE RAILS.
4. APPLY MEMBRANE WATERPROOFING AND FIRST LIFT OF BITUMINOUS OVERLAY.
5. CONSTRUCT ROADWAY APPROACHES TO THE BRIDGE.
6. APPLY FINAL LIFT OF THE BITUMINOUS OVERLAY TO THE ENTIRE PROJECT.
7. INSTALL ASPHALTIC PLUG JOINTS.
8. OPEN ROAD TO TRAFFIC AND COMPLETE MISCELLANEOUS WORK.

WATER HANDLING NOTES:

1. THE SUGGESTED METHOD OF CONTROLLING WATER DURING CONSTRUCTION CONSIST OF TEMPORARY WATER HANDLING DEVICES AS SHOWN ON THIS DRAWING AND SHALL BE PAID FOR UNDER THE ITEM "HANDLING WATER".
2. THIS SUGGESTED WATER HANDLING SCHEME IS FOR THE REMOVAL OF EXISTING PIER, ABUTMENTS, WINGWALLS, AGGRADATION FROM NORTH BARREL OF EXISTING STREAM BED, AND FOR THE CONSTRUCTION OF PROPOSED ABUTMENTS AND WINGWALLS. THE INSTALLATION OF TEMPORARY WATER HANDLING DEVICE TO HANDLE WATER FOR ANY OTHER CONSTRUCTION ACTIVITIES IS NOT PERMITTED.
3. TOP OF THE TEMPORARY WATER HANDLING DEVICES SHALL BE AT EL. 257.5 DURING STAGE 1 AND EL. 256 DURING STAGE 2.
4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS PROPOSED PLAN FOR HANDLING WATER, INCLUDING METHODS NECESSARY FOR THE CONSTRUCTION OF SUBSTRUCTURE TO BE COMPLETED IN REASONABLY DRY CONDITIONS.
5. IN ADDITION TO THE PROPOSED METHODS OF HANDLING WATER, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER HIS PROPOSED METHODS OF REMOVING THE EXISTING SUPERSTRUCTURE AND SUBSTRUCTURES. EXISTING SUPERSTRUCTURE REMOVAL SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE". REMOVAL OF EXISTING SUBSTRUCTURES SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY". SEE SPECIAL PROVISIONS.
6. NO WORK SHALL BEGIN UNTIL ALL APPROVALS HAVE BEEN OBTAINED FROM THE ENGINEER.

TIME OF YEAR BMP NOTES

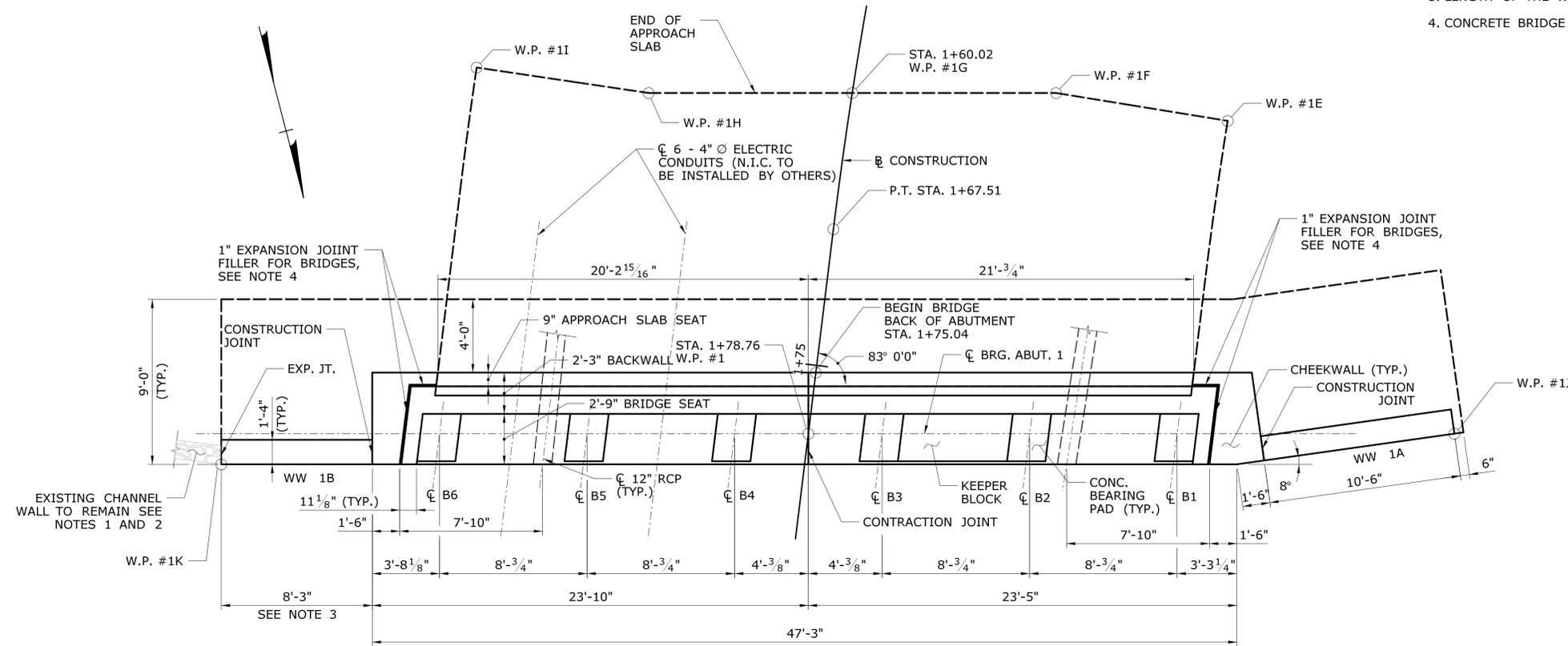
AS A BEST MANAGEMENT PRACTICE, ANY UNCONFINED IN STREAM WORK WITHIN THE PEQUABUCK RIVER SHOULD BE RESTRICTED TO THE PERIOD FROM JUNE 30 TO SEPTEMBER 30, INCLUSIVE.

TEMPORARY HYDRAULIC TABLE	
AVERAGE DAILY FLOW	45 CFS
AVERAGE SPRING FLOW	86 CFS
2-YEAR DESIGN FLOW	1000 CFS
TEMPORARY DESIGN FREQUENCY	2 YEAR
TEMPORARY WATER SURFACE ELEVATION UPSTREAM STAGE 1	256.84 FT
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM STAGE 1	254.41 FT
TEMPORARY WATER SURFACE ELEVATION UPSTREAM STAGE 2	255.26 FT
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM STAGE 2	252.80 FT

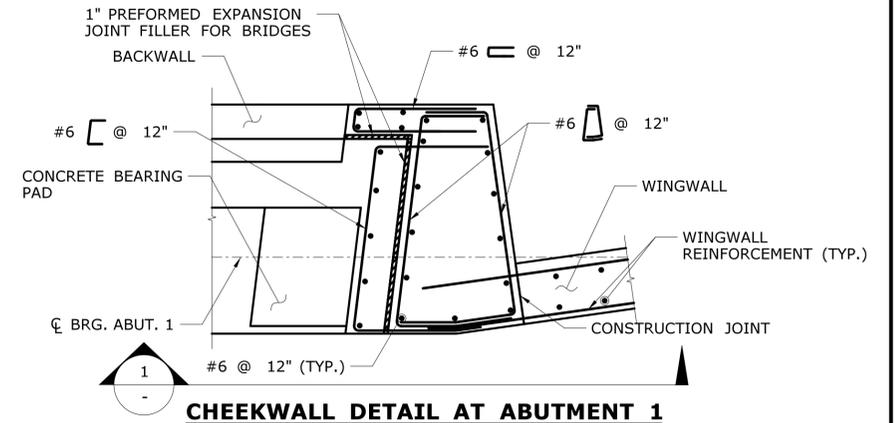
DESIGNER/DRAFTER: PB	CITY OF BRISTOL	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04140 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
CHECKED BY: MH					DRAWING TITLE: WATER HANDLING PLAN	DRAWING NO. STR-04
SCALE AS NOTED	Plotted Date: 4/16/2025	Filename: ...\\SB_MSH_Br04140_017_04104_WH_Steel.dgn				SHEET NO.

NOTES:

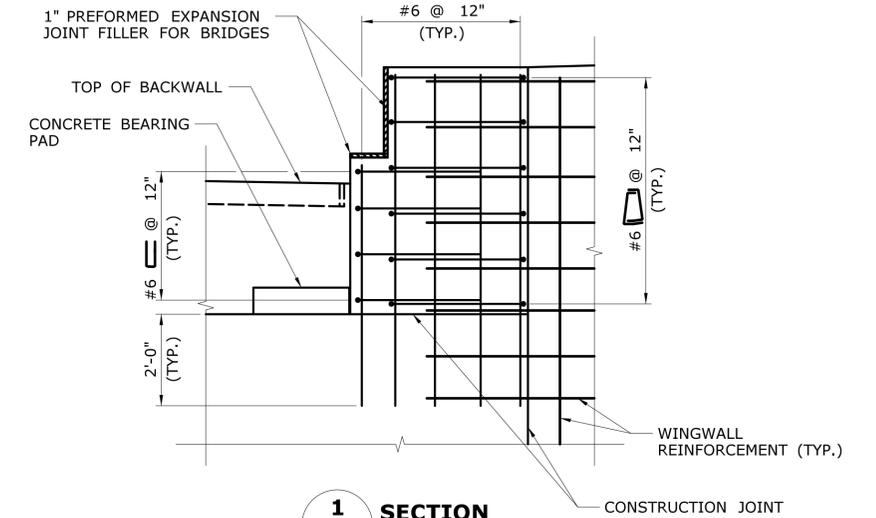
1. PRIOR TO PLACEMENT OF CONCRETE FOR PROPOSED WINGWALL 1B, 1" THICK CLOSED CELL FOAM SHALL BE ATTACHED WITH ADHESIVE TO REMAINING PORTION OF EXISTING CHANNEL WALL. PROPOSED WINGWALL 1B SHALL NOT COME IN CONTACT WITH EXISTING CHANNEL WALL.
2. IF DURING CONSTRUCTION, EXISTING CHANNEL WALL IS DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIRS SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
3. LENGTH OF THE WALL IS APPROXIMATE AND SHALL BE DETERMINED BASED ON THE FIELD CONDITION.
4. CONCRETE BRIDGE DECK SHALL BE ISOLATED FROM CHEEKWALL BY 1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES.



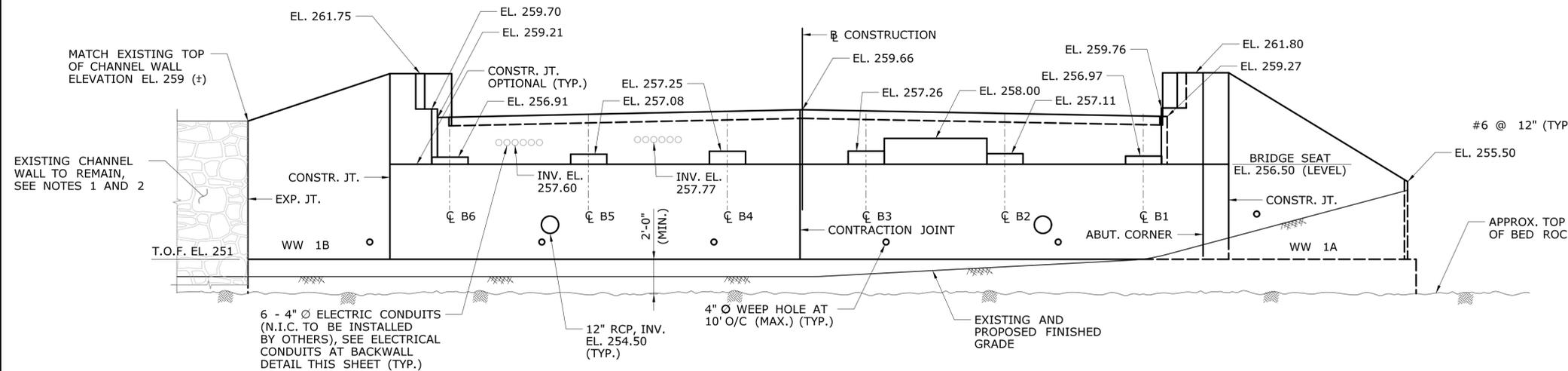
ABUTMENT 1 PLAN
SCALE: 1/4" = 1'-0"



CHEEKWALL DETAIL AT ABUTMENT 1
SCALE: 1/2" = 1'-0"

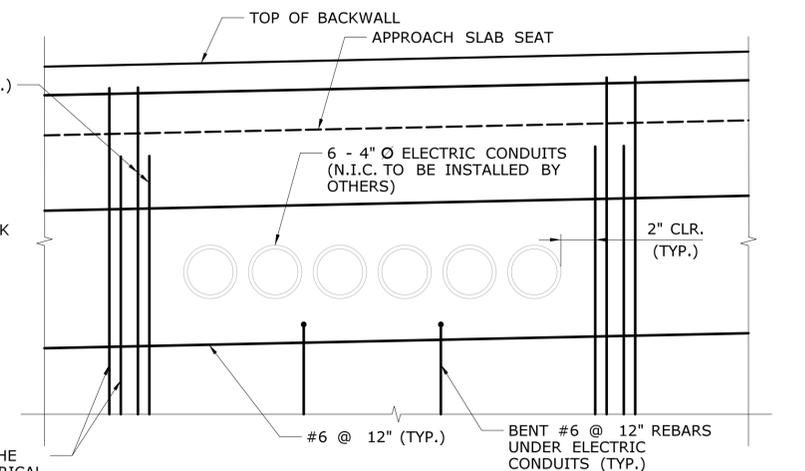


SECTION 1
SCALE: 1/2" = 1'-0"



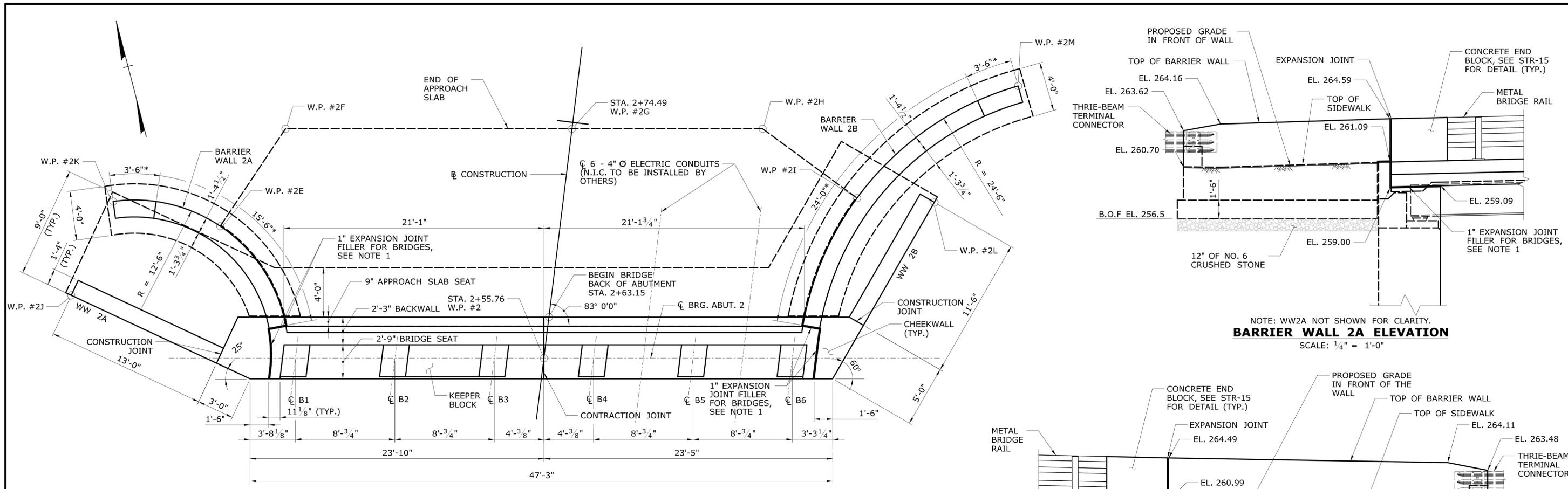
ABUTMENT 1 ELEVATION
SCALE: 1/4" = 1'-0"

ADDITIONAL #6 REBAR ON THE OUTSIDE OF EXTERIOR ELECTRICAL CONDUIT (TYP.)



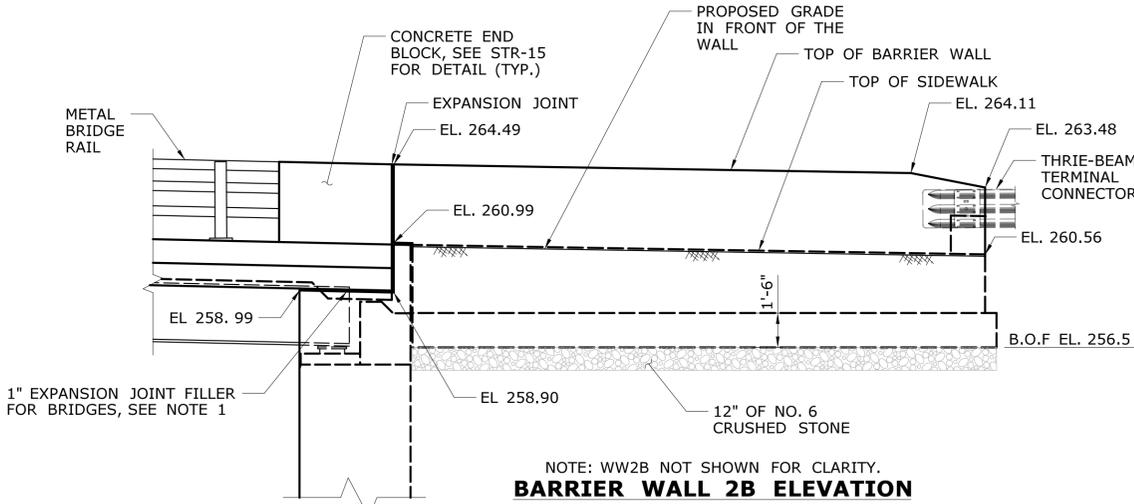
ELECTRIC CONDUITS AT BACKWALL DETAIL
SCALE: 1 1/2" = 1'-0"

<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>		<p>DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED</p>	<p>CITY OF BRISTOL</p>	<p>SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033</p>	<p>PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER</p>	<p>TOWN: BRISTOL</p>	<p>PROJECT NO. 017-04104 DRAWING NO. STR-05 SHEET NO.</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025	Filename: ...\\SB_MSH_Br04104_017_04104_ABUT-1_Steel.dgn	<p>DRAWING TITLE: ABUTMENT 1 PLAN AND ELEVATION</p>	



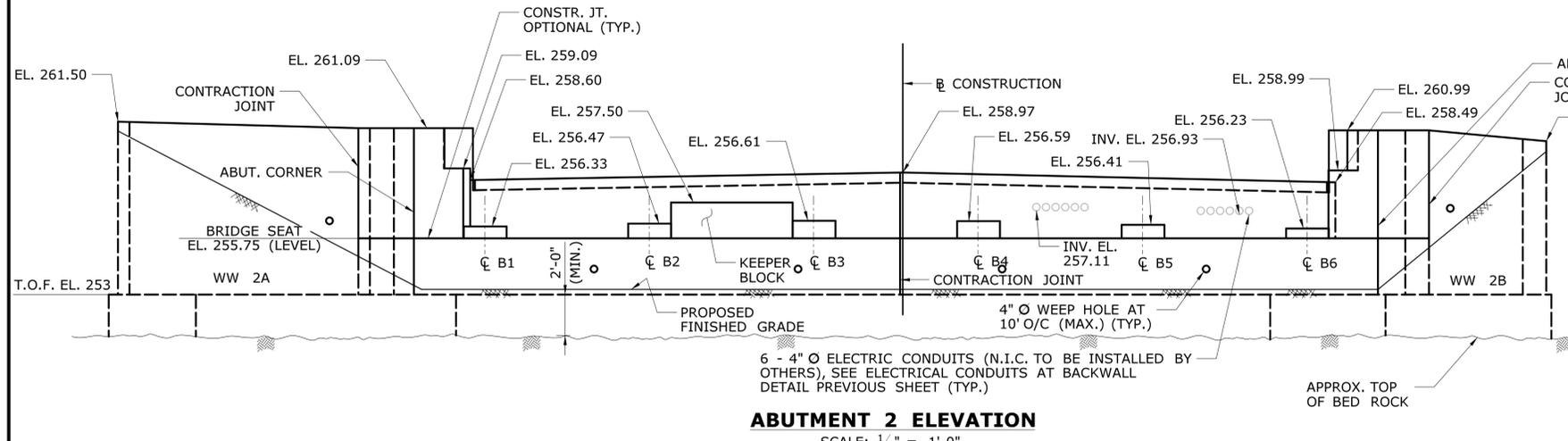
ABUTMENT 2 PLAN
SCALE: 1/4" = 1'-0"

NOTE:
* - MEASUREMENT IS TAKEN ALONG THE LAYOUT LINE, SEE BARRIER WALL TYPICAL SECTION ON NEXT SHEET.



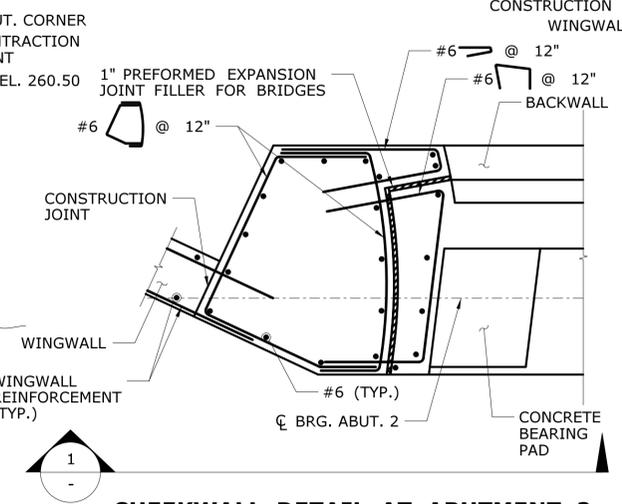
BARRIER WALL 2B ELEVATION
SCALE: 1/4" = 1'-0"

NOTE: WW2B NOT SHOWN FOR CLARITY.

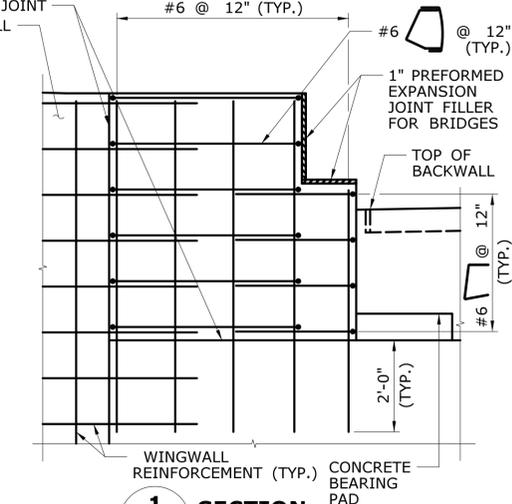


ABUTMENT 2 ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
1. CONCRETE BRIDGE DECK SHALL BE ISOLATED FROM CHEEKWALL BY 1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES.

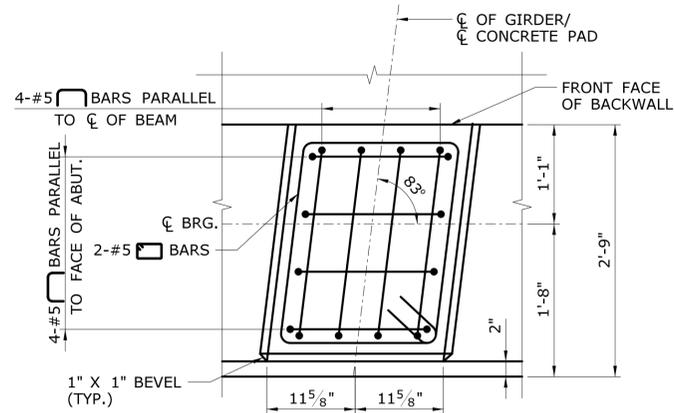


CHEEKWALL DETAIL AT ABUTMENT 2
SCALE: 1/2" = 1'-0"

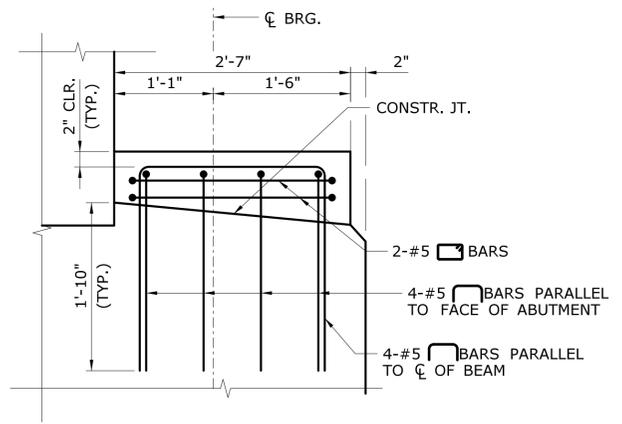


SECTION 1
SCALE: 1/2" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD	CITY OF BRISTOL	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
Plotted Date: 4/16/2025		CHECKED BY: VLL						
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Filename: ..._SB_MSH_Br04104_017_04104_ABUT-2_Steel.dgn	ABUTMENT 2 PLAN AND ELEVATION		SHEET NO.	



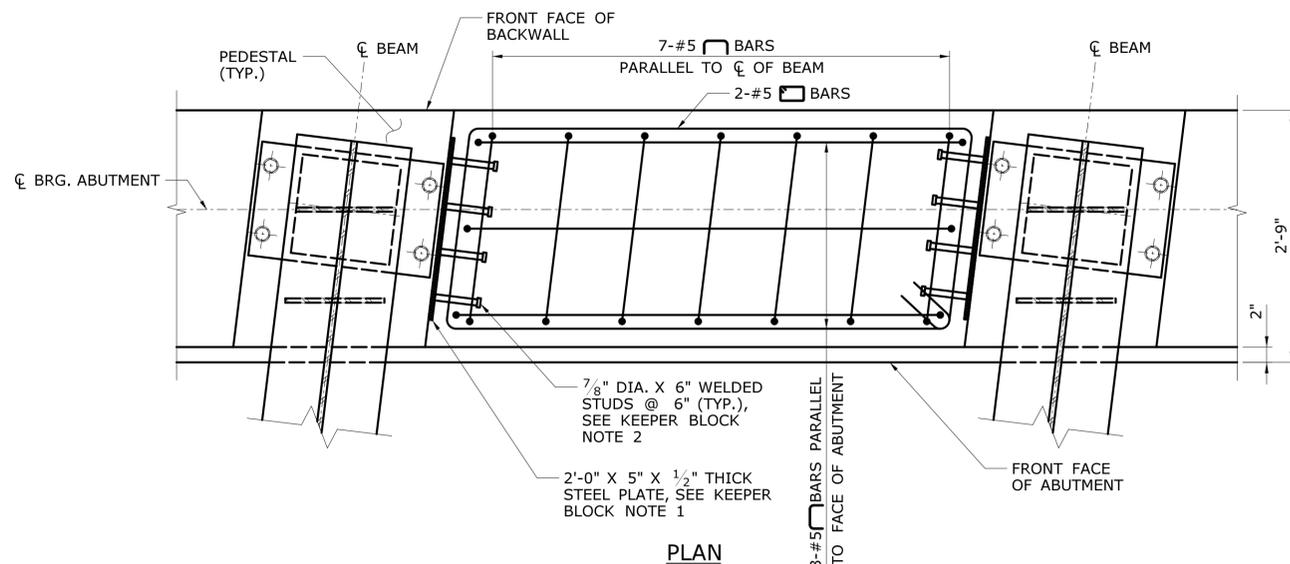
PLAN



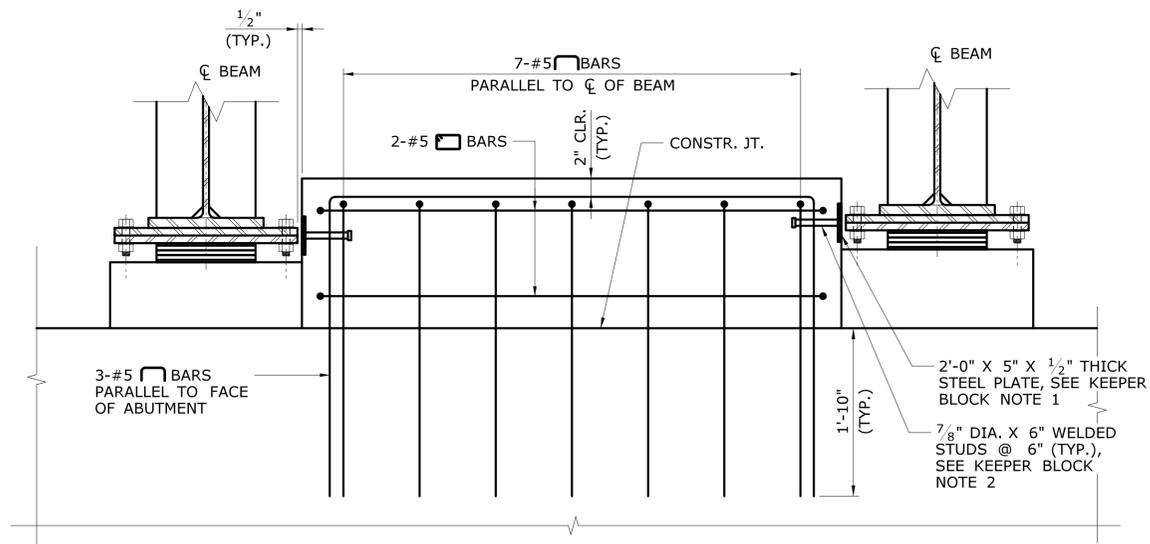
ELEVATION

ABUTMENT CONCRETE PAD DETAILS

SCALE: 1" = 1'-0"



PLAN



ELEVATION

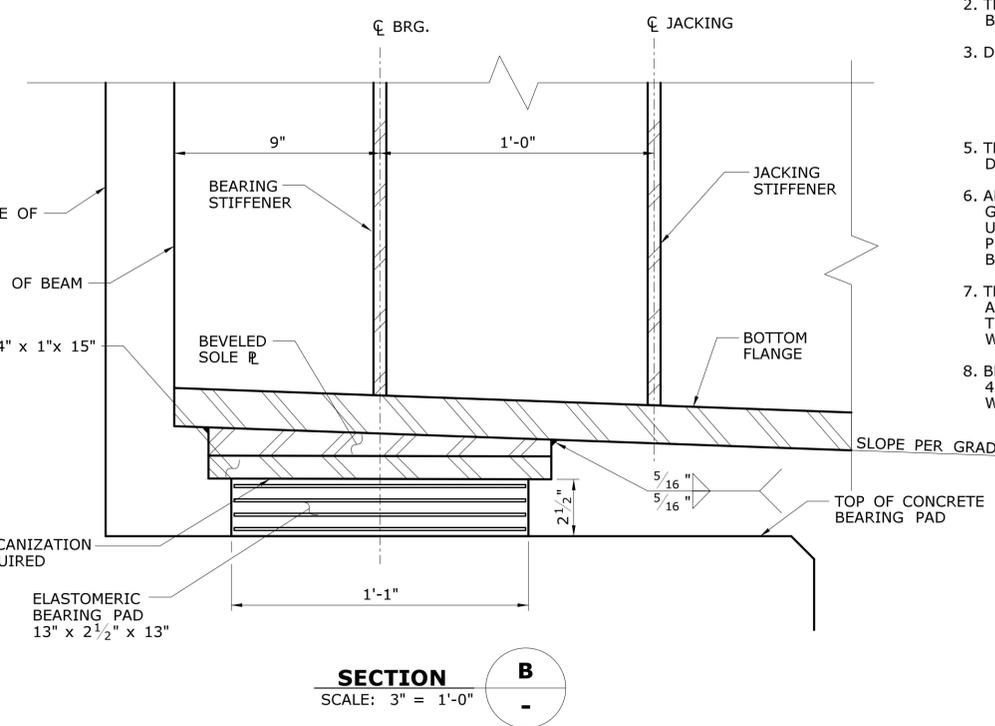
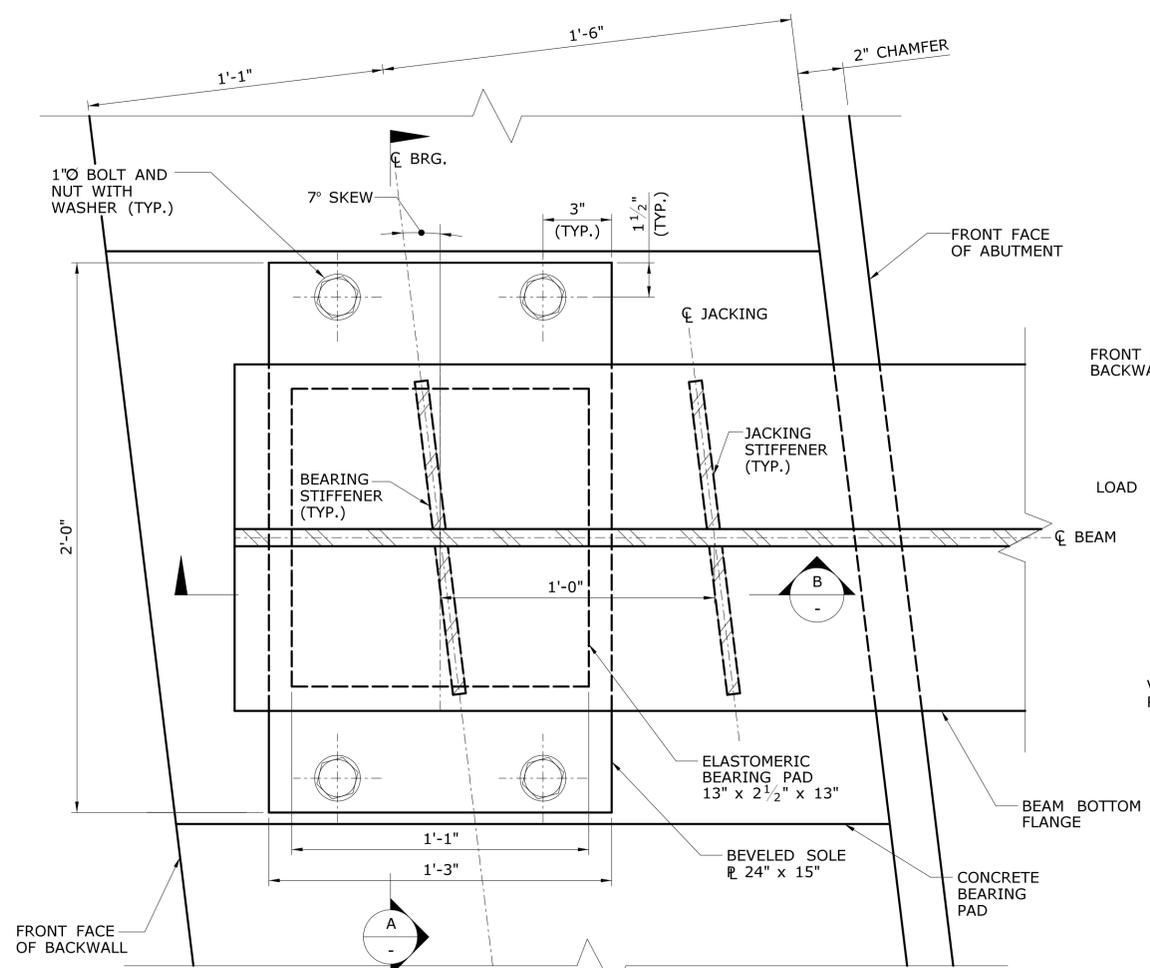
KEEPER BLOCK DETAILS

SCALE: 1" = 1'-0"

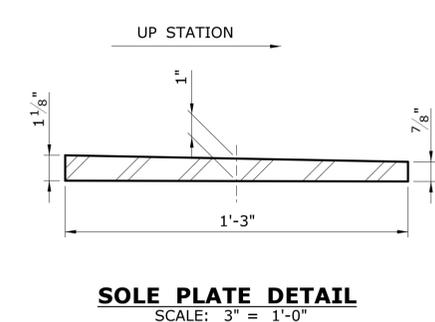
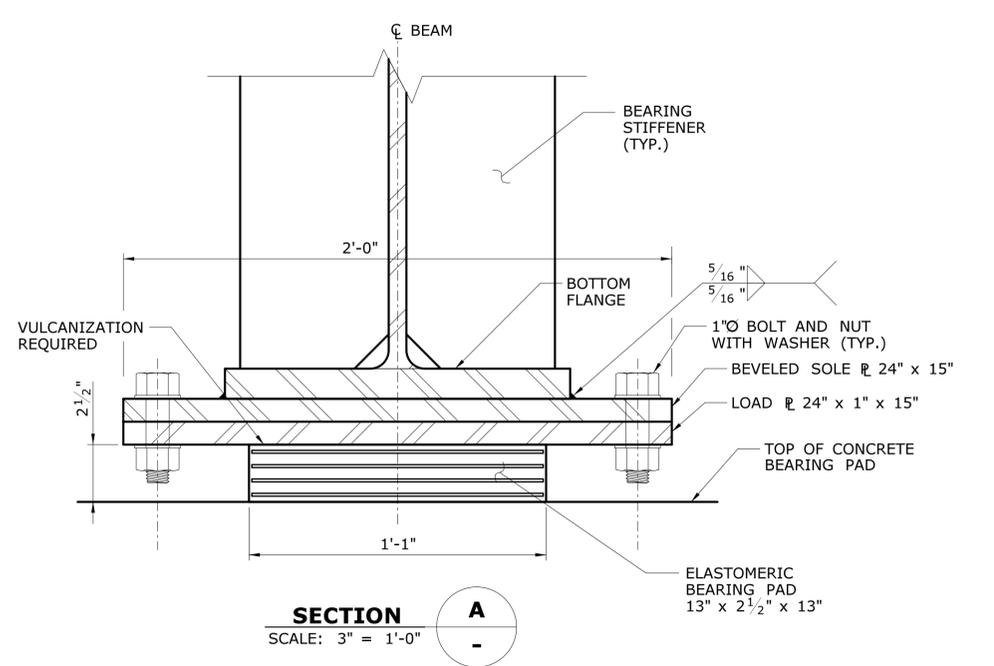
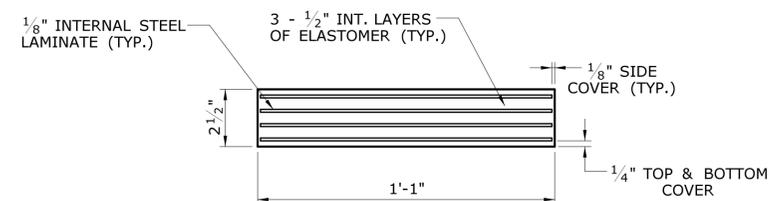
KEEPER BLOCK NOTES:

- 2' X 5" X 1/2" THICK STEEL PLATE SHALL BE PAID FOR UNDER ITEM "STRUCTURAL STEEL (SITE NO. 1)".
- 7/8" DIA. X 6" WELDED STUDS SHALL BE PAID FOR UNDER ITEM "WELDED STUDS".

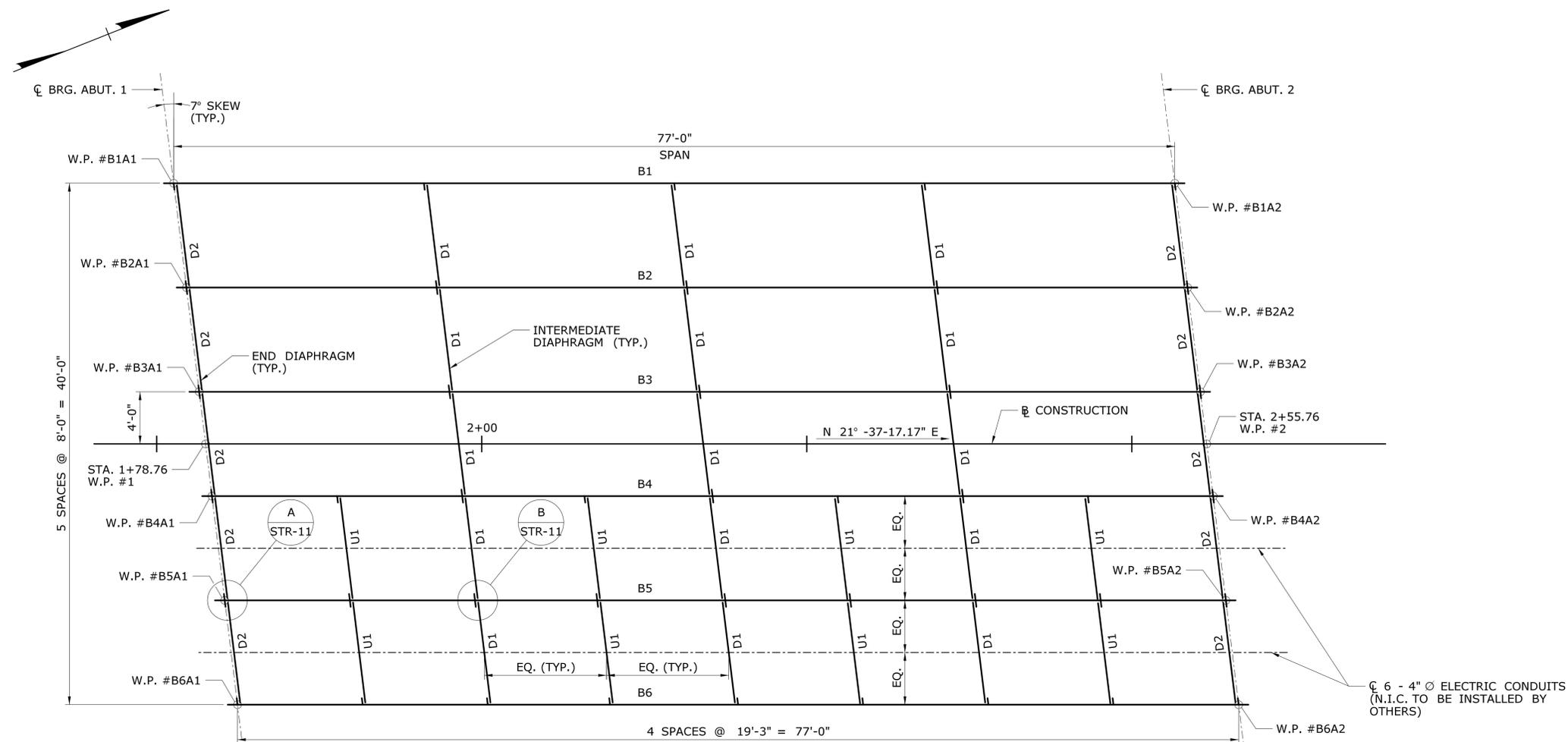
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED	CITY OF BRISTOL Filename: ... \SB_MSH_Br04104_017_04104_SUBSTRUCTURE_DETAILS-2_Steel.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. STR-08 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025	DRAWING TITLE: SUBSTRUCTURE DETAILS - 2		



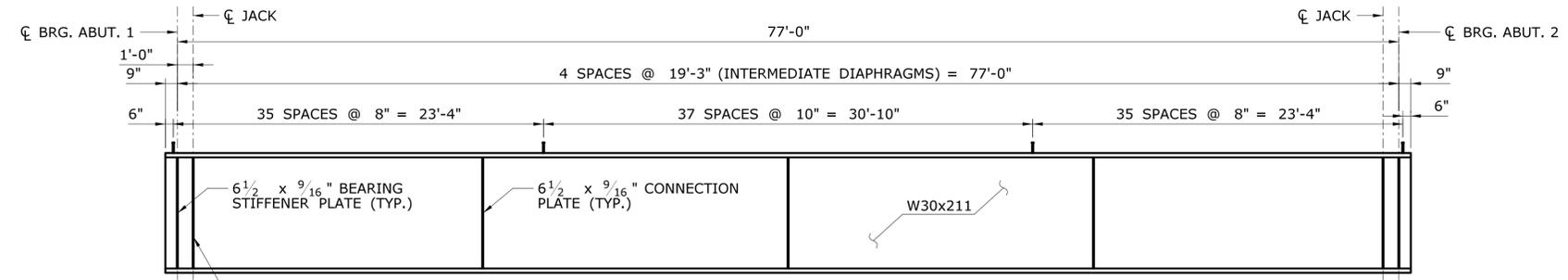
- ELASTOMERIC BEARING NOTES**
- ELASTOMERIC BEARING PADS SHALL BE NEOPRENE, HARDNESS (SHORE "A" DUROMETER) OF 60, GRADE 3.
 - THE COST OF THE BEARING, INCLUDING ANCHOR BOLTS, SHALL BE PAID UNDER "STEEL LAMINATED ELASTOMERIC BEARINGS".
 - DESIGN LOADS: (DESIGN METHOD = DESIGN METHOD A)
UNFACTORED DESIGN LOADS:
 MAXIMUM NON COMPOSITE DEAD LOAD 43.00 KIPS
 MAXIMUM COMPOSITE DEAD LOAD 25.00 KIPS
 MAXIMUM LIVE LOAD (+ IMPACT) 93.00 KIPS
 - THE ENDS OF THE BEAMS SHALL BE VERTICAL UNDER FULL DEAD LOAD AND GRADE.
 - ALL EXTERNAL STEEL PLATES SHALL CONFORM TO AASHTO M270 GRADE 50 T2. THE COST OF BEVELED SOLE PLATES SHALL BE INCLUDED UNDER ITEM "STRUCTURAL STEEL (SITE NO. 1)" AND THE COST OF LOAD PLATES SHALL BE INCLUDED UNDER ITEM "STEEL LAMINATED ELASTOMERIC BEARINGS".
 - THE TOP OF THE BEARING SHOULD BE VULCANIZED UNDER HEAT AND PRESSURE TO A STEEL LOAD PLATE TO FACILITATE INSTALLATION. THE TOP PLATE SHOULD BE BOLTED TO A BEVELED SOLE PLATE. FIELD WELDING IS NOT ALLOWED.
 - BEARINGS SHOULD BE INSTALLED AT TEMPERATURES BETWEEN 40° F & 85° F. INSTALLATION TEMPERATURES OUTSIDE THIS RANGE WILL REQUIRE ADJUSTMENT.



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025	DRAWING TITLE: BEARING DETAILS			



FRAMING PLAN
SCALE: 3/16" = 1'-0"



BEAM ELEVATION
NOT TO SCALE

BEAM NO.	DEFLECTION (IN)			TOTAL DEAD LOAD CAMBER (IN)	VERTICAL CURVE ORDINATE (IN)	EXTRA CAMBER (IN)	TOTAL CAMBER (IN)
	STRUCTURAL STEEL	NON COMPOSITE DEAD LOAD	COMPOSITE DEAD LOAD				
B1	0.616	1.840	0.930	3.386	0.822	0.000	4.208
B2	0.616	2.375	0.930	3.921	0.956	0.000	4.877
B3	0.616	2.375	0.930	3.921	1.088	0.000	5.009
B4	0.616	2.375	0.930	3.921	1.220	0.000	5.141
B5	0.616	2.375	0.930	3.921	1.350	0.000	5.271
B6	0.616	1.840	0.930	3.386	1.480	0.000	4.866

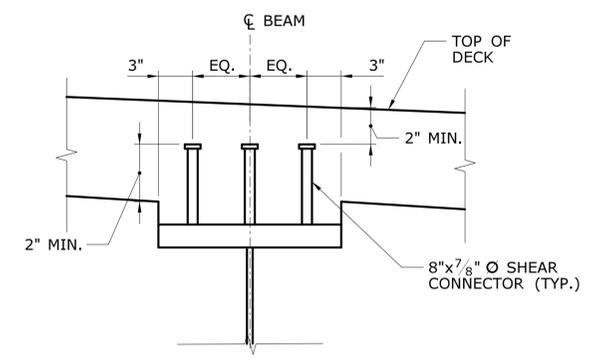
CAMBER TABLE AT MIDSPAN (IN.)

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 50 T2.
2. WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO THE CURRENT EDITION OF THE AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
3. FIELD SPLICES WILL NOT BE ALLOWED.
4. ALL WEB TO FLANGE, WEB TO BEARING AND JACKING STIFFENER, AND BEARING AND JACKING STIFFENER TO FLANGE FILLET WELDS SHALL BE INSPECTED BY THE MAGNETIC PARTICLE METHOD.
5. MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.
6. THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER THE AISC CERTIFICATION PROGRAM CATEGORY BRIDGE FABRICATOR SIMPLE (SBR).
7. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING.
8. BEARING STIFFENERS AND THE ENDS OF BEAMS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOADS.
9. NO ATTACHMENTS OTHER THAN THOSE SHOWN ON THE PLANS SHALL BE FILLET WELDED, PLUG WELDED OR TACK WELDED TO THE BEAMS.
10. BRIDGE BEAMS, BEARING STIFFENERS AND CONNECTION PLATES SHALL BE METALLIZED AND CLEAR COATED WITH A SEALER, SEE SPECIAL PROVISION "METALLIZING STRUCTURAL STEEL (SITE NO. 1)". NO PAINTING OF STRUCTURAL STEEL IS REQUIRED.
11. DIAPHRAGMS AND UTILITY SUPPORTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. THE COST OF GALVANIZING SHALL BE PAID FOR UNDER THE ITEM "GALVANIZING STRUCTURAL STEEL (SITE NO. 1)".

WORKING POINT COORDINATES

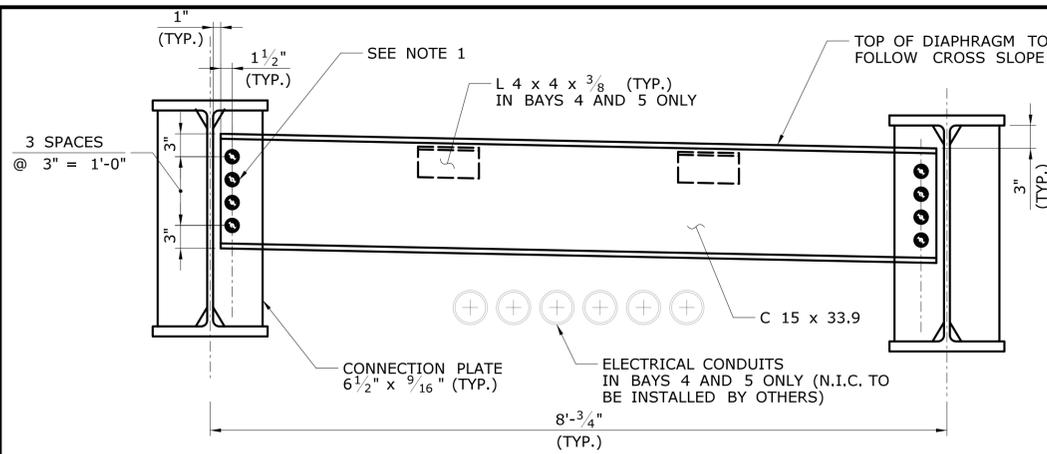
W.P. #	NORTH	EAST	DESCRIPTION
B1A1	804718.022	951655.009	CL B1 AND CL BEARINGS AT ABUTMENT 1
B2A1	804715.988	951662.808	CL B2 AND CL BEARINGS AT ABUTMENT 1
B3A1	804713.953	951670.607	CL B3 AND CL BEARINGS AT ABUTMENT 1
B4A1	804711.919	951678.406	CL B4 AND CL BEARINGS AT ABUTMENT 1
B5A1	804709.884	951686.205	CL B5 AND CL BEARINGS AT ABUTMENT 1
B6A1	804707.849	951694.004	CL B6 AND CL BEARINGS AT ABUTMENT 1
B1A2	804789.605	951683.381	CL B1 AND CL BEARINGS AT ABUTMENT 2
B2A2	804787.570	951691.180	CL B2 AND CL BEARINGS AT ABUTMENT 2
B3A2	804785.535	951698.979	CL B3 AND CL BEARINGS AT ABUTMENT 2
B4A2	804783.501	951706.778	CL B4 AND CL BEARINGS AT ABUTMENT 2
B5A2	804781.466	951714.577	CL B5 AND CL BEARINGS AT ABUTMENT 2
B6A2	804779.432	951722.376	CL B6 AND CL BEARINGS AT ABUTMENT 2



SHEAR CONNECTOR DETAIL

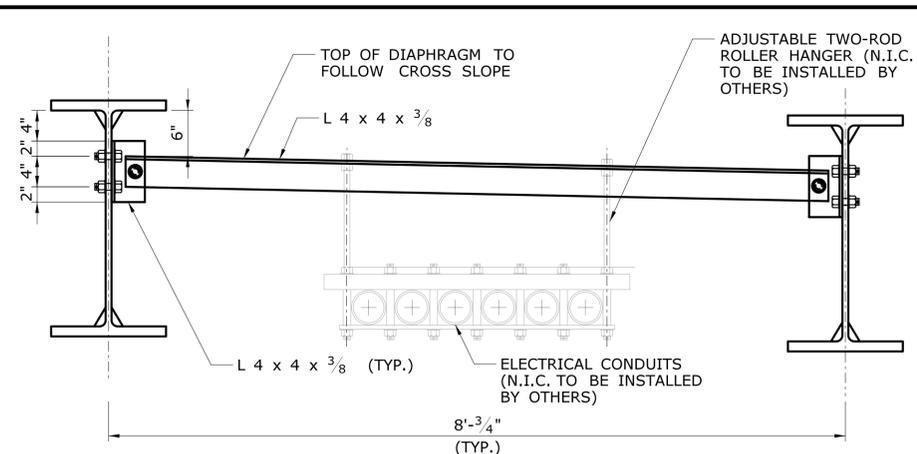
SCALE: 1 1/2" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SD	CITY OF BRISTOL	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
	CHECKED BY: VLL						
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 4/16/2025	Filename: ...\\SB_MSH_Br04104_017_04104_FRM_Steel.dgn		FRAMING PLAN		SHEET NO.		



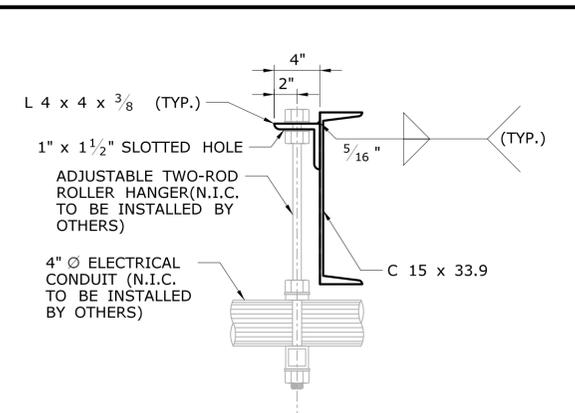
ELEVATION - INTERMEDIATE DIAPHRAGM D1

SCALE: 1" = 1'-0"



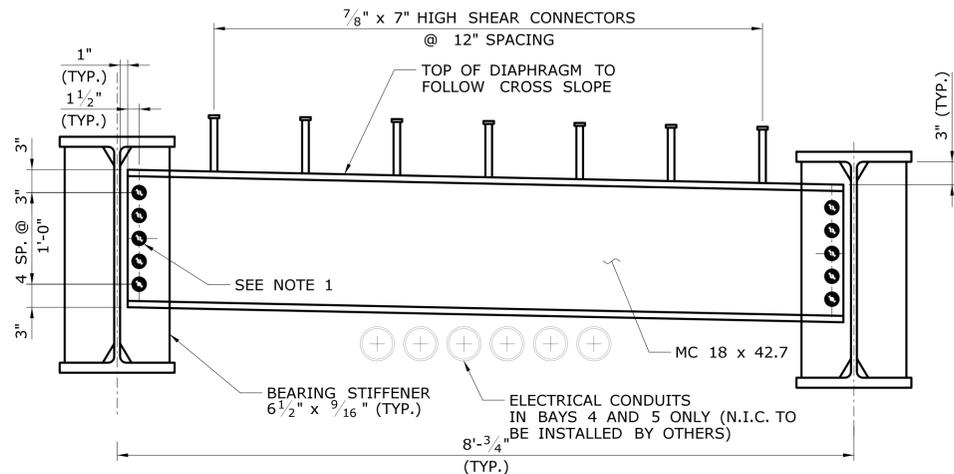
ELEVATION - UTILITY DIAPHRAGM U1

SCALE: 1" = 1'-0"



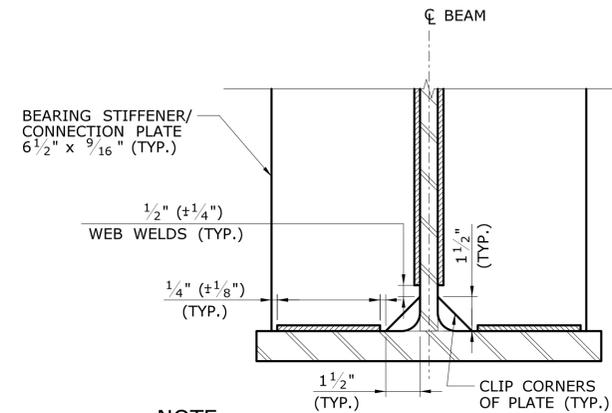
ROLLER HANGER SECTION (INTERMEDIATE DIAPHRAGM)

SCALE: 1 1/2" = 1'-0"



ELEVATION - END DIAPHRAGM D2

SCALE: 1" = 1'-0"



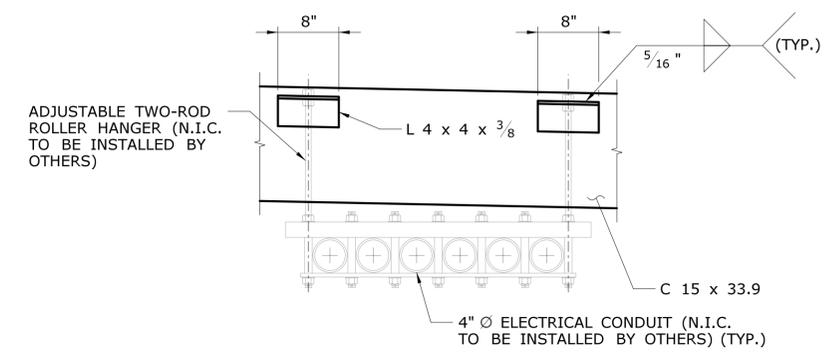
NOTE:

DETAIL SHOWN IS FOR BOTTOM FLANGE. TOP FLANGE IS SIMILAR.

DETAIL 1

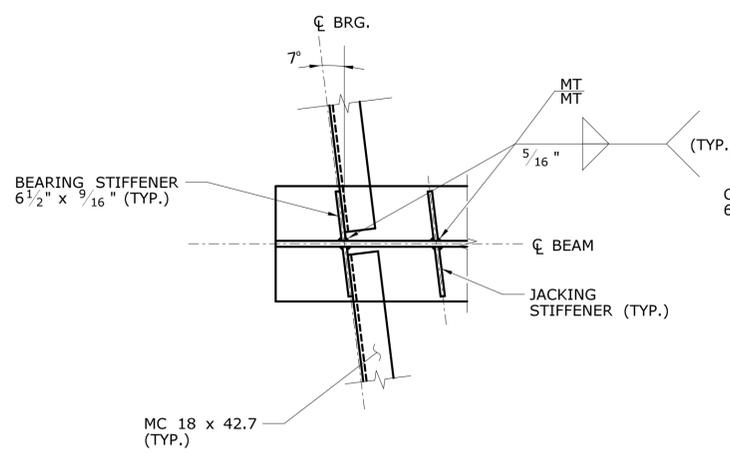
CLIP AND WELD TERMINATION DETAIL

SCALE: 3" = 1'-0"



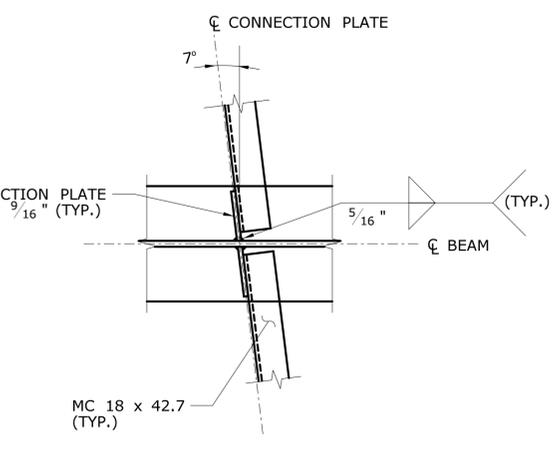
ROLLER HANGER ELEVATION

SCALE: 1" = 1'-0"



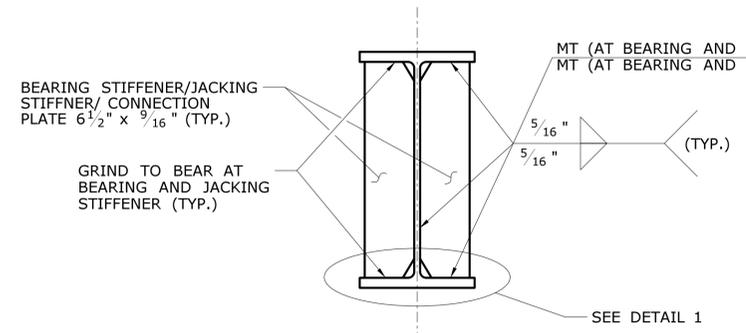
A CONNECTION DETAIL

SCALE: 1" = 1'-0"



B CONNECTION DETAIL

SCALE: 1" = 1'-0"



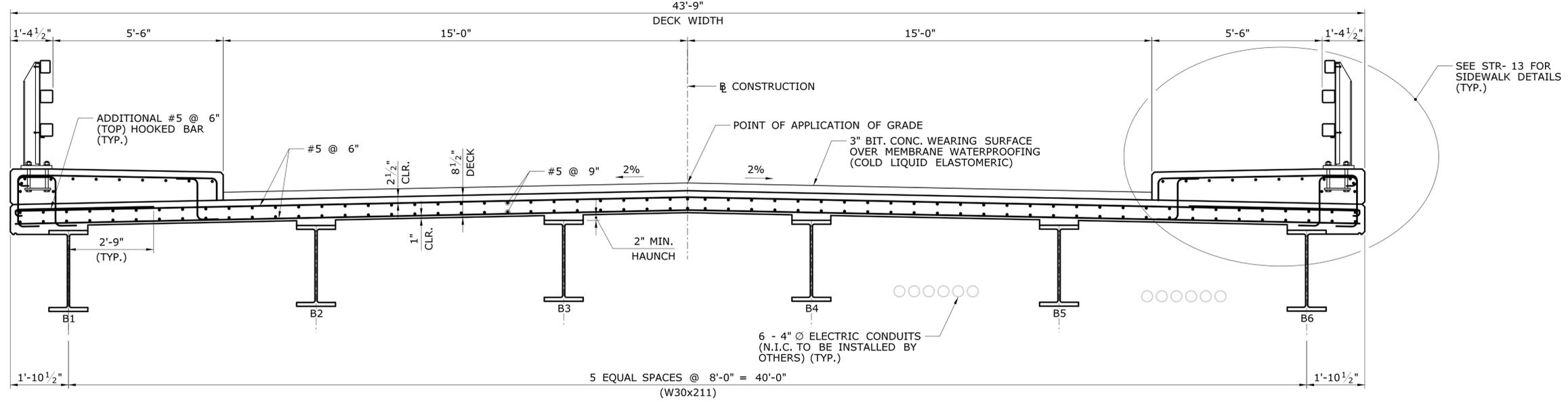
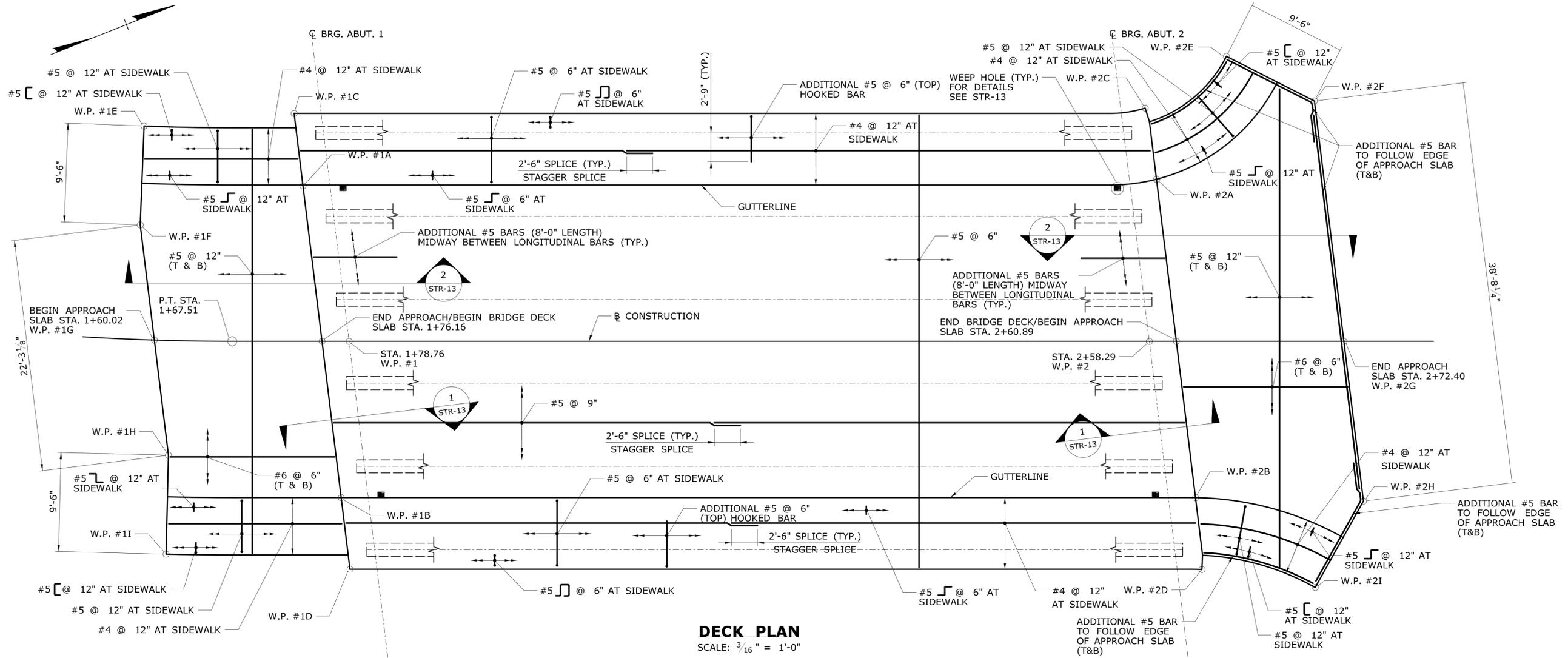
BEARING STIFFENER/CONNECTION PLATE DETAIL

SCALE: 1" = 1'-0"

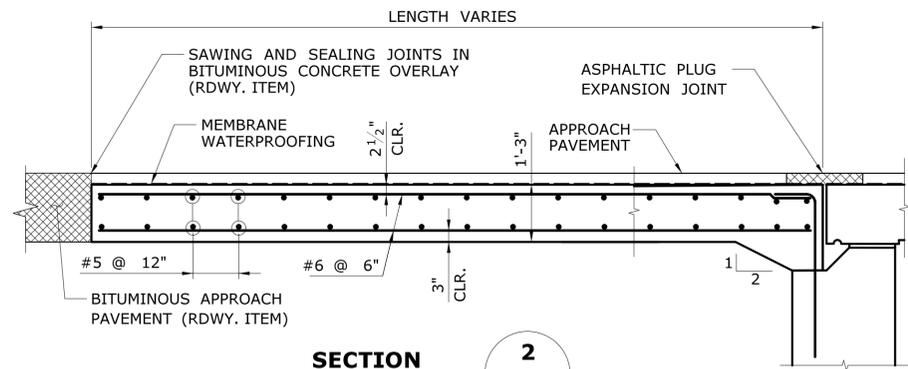
NOTE:

- BOLT HOLES IN CHANNELS SHALL BE 15/16" O (STANDARD) FOR 7/8" O BOLTS. BOLT HOLE IN CONNECTION OR STIFFENER PLATES SHALL BE 1 1/16" O (OVERSIZED).
- BOTTOM OF UTILITY SUPPORT SHALL BE ABOVE BEAM BOTTOM FLANGE.
- ADJUSTABLE TWO-ROD ROLLER HANGERS AND ELECTRICAL CONDUITS UNDER BRIDGE TO BE INSTALLED BY OTHERS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: JS CHECKED BY: SD SCALE AS NOTED	CITY OF BRISTOL Filename: ...SB_MSH_Br04140_017_04104_STEEL_DETAILS.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. STR-11 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025			

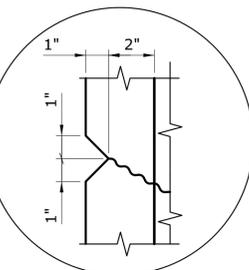


THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: JS CHECKED BY: SD SCALE AS NOTED	CITY OF BRISTOL Filename: ..._SB_MSH_Br04104_017_04104_DECK_DETAILS-1_Steel.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. STR-12 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025	DECK DETAILS - 1		

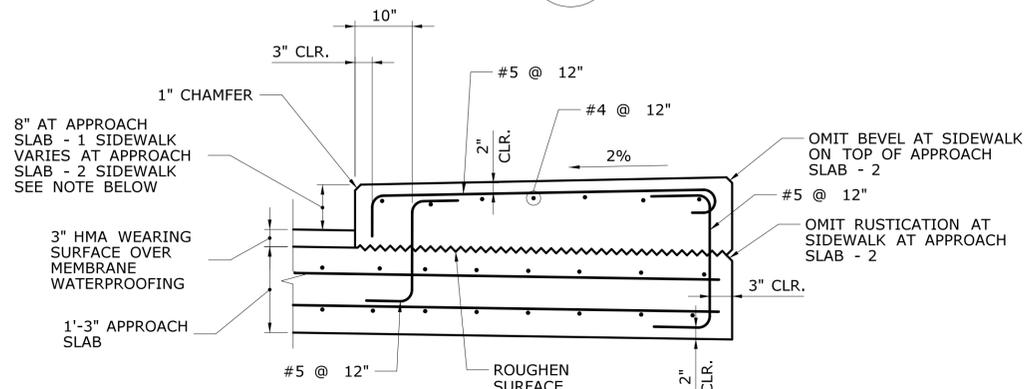


SECTION 2
SCALE: 1/2" = 1'-0"
STR-12

TREATMENT OF MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) AT GUTTER
NOT TO SCALE

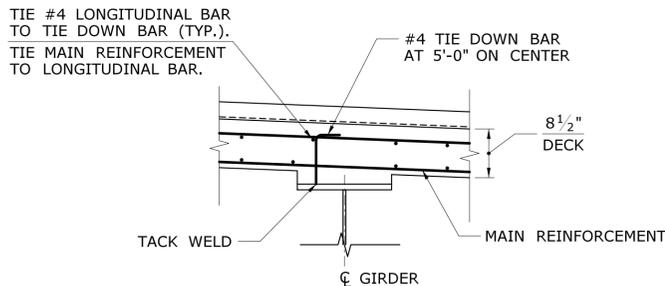


RUSTICATION DETAIL
NOT TO SCALE

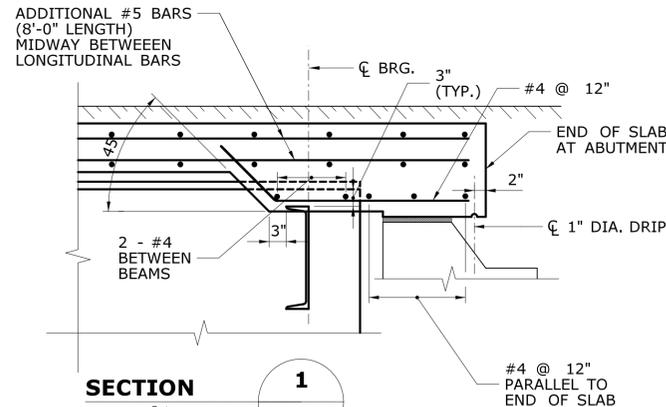


NOTE: FOR ADDITIONAL DETAILS OF SIDEWALK ON TOP OF APPROACH SLAB - 2, SEE DWG. HWY-01, DWG. GRA-01, AND DWG. MDS-01.

SIDEWALK DETAIL ON TOP OF APPROACH SLAB
SCALE: 3/4" = 1'-0"



TIE DOWN FOR SLAB REINFORCEMENT
SCALE: 3/4" = 1'-0"

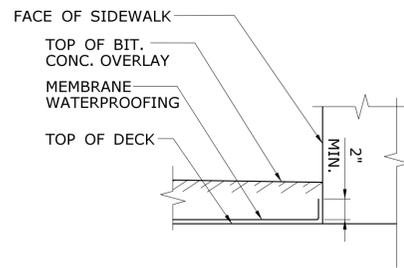


SECTION 1
SCALE: 3/4" = 1'-0"
STR-12

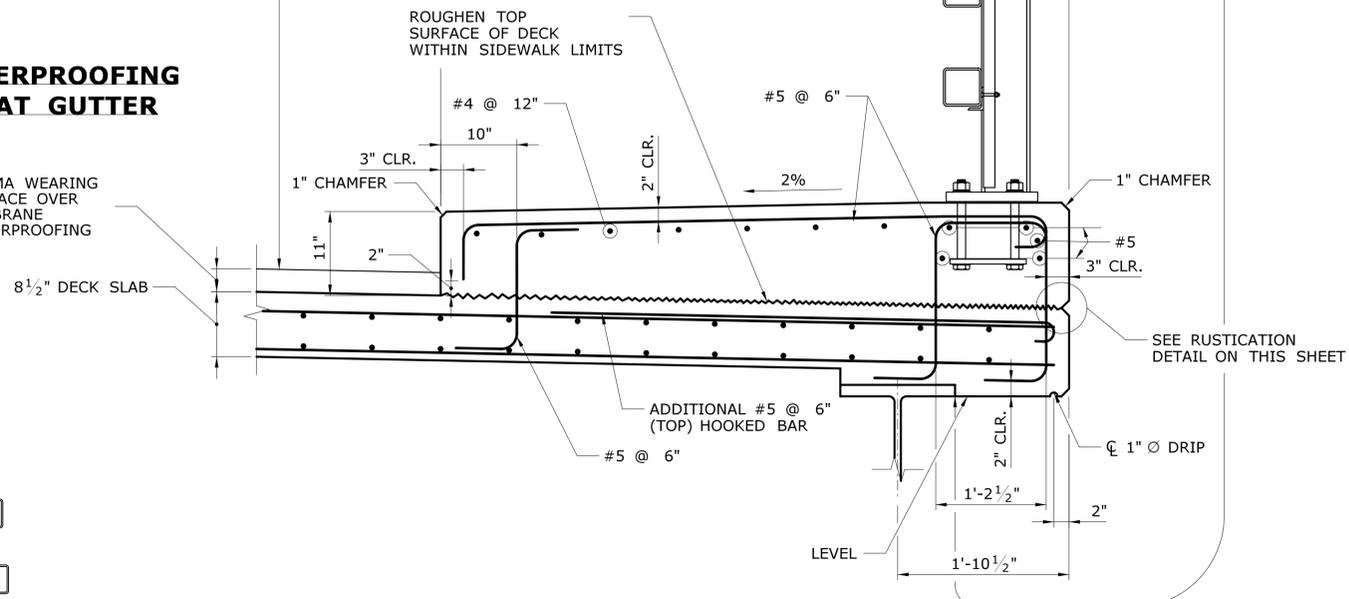
- NOTES**
1. TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS FOR SUPPORTING THE REINFORCEMENT MAT.
 2. THE COST OF FURNISHING AND PLACING TIE-DOWN BARS TO BE INCLUDED IN THE CONTRACT ITEM "DEFORMED STEEL BARS - GALVANIZED".
 3. TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR SHEAR CONNECTORS.

TOP OF SLAB ELEVATIONS											
BEAM	ABUT. 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	ABUT. 2
B1	260.80	260.72	260.67	260.63	260.59	260.55	260.51	260.47	260.39	260.29	260.16
B2	260.95	260.87	260.82	260.78	260.74	260.70	260.67	260.62	260.54	260.44	260.30
B3	261.10	261.02	260.98	260.94	260.90	260.86	260.82	260.77	260.69	260.58	260.44
B4	261.08	261.01	260.97	260.93	260.89	260.86	260.82	260.76	260.68	260.56	260.42
B5	260.91	260.85	260.81	260.77	260.73	260.69	260.65	260.59	260.51	260.39	260.24
B6	260.74	260.68	260.64	260.60	260.56	260.53	260.49	260.42	260.33	260.21	260.06

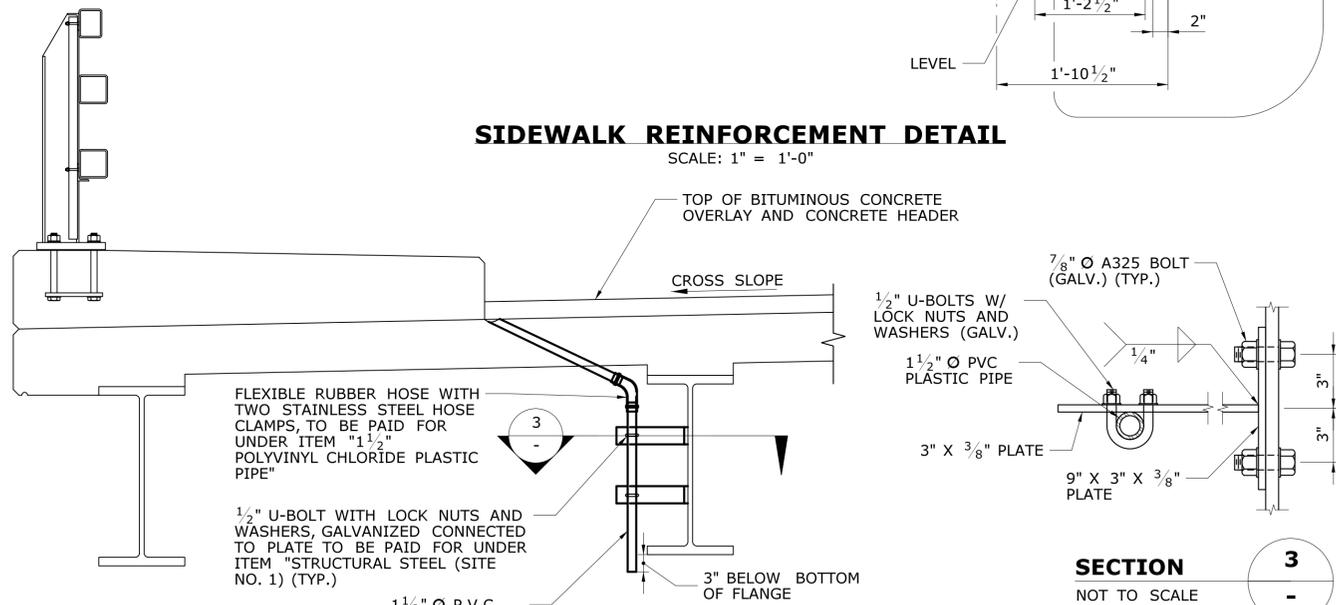
NOTE: THE ELEVATIONS IN THE TABLE ARE THE FINISHED ELEVATIONS OF TOP OF CONCRETE DECK.



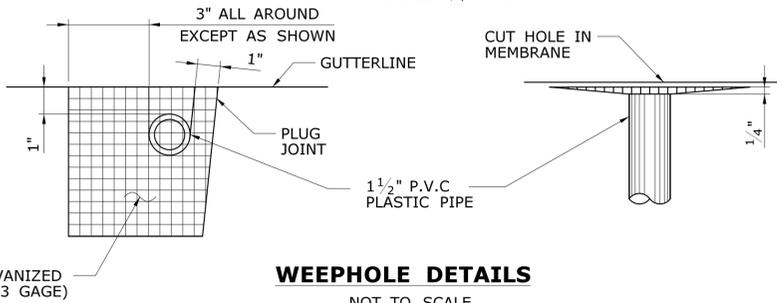
LIMITS OF PENETRATING SEALER PROTECTIVE COMPOUND



SIDEWALK REINFORCEMENT DETAIL
SCALE: 1" = 1'-0"



DECK WEEPHOLE DETAILS
SCALE: 3/4" = 1'-0"



WEEPHOLE DETAILS
NOT TO SCALE

- NOTES**
1. SEE PLAN ON DWG. STR-12 FOR LOCATIONS OF DRAINS.
 2. THE COST OF FURNISHING AND INSTALLING 1/4" SQUARE GALVANIZED WIRE MESH SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR "HMA S0.25".

DESIGNER/DRAFTER: JS		CITY OF BRISTOL	SIGNATURE/BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104	
CHECKED BY: SD								
SCALE AS NOTED							DRAWING NO. STR-13	
Plotted Date: 4/16/2025							DRAWING TITLE: DECK DETAILS - 2	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Filename: ...\\SB_MSH_Br04104_017_04104_DECK_DETAILS-2_Steel.dgn				SHEET NO.

**BITUMINOUS CONCRETE PLACEMENT
AT ASPHALTIC PLUG JOINTS (APJ)**

- THE REQUIREMENTS OF SPECIAL PROVISION SECTION 4.06 SHALL BE MET EXCEPT IN LIEU OF DENSITY TESTING, THE METHODS DESCRIBED BELOW SHALL BE FOLLOWED TO ASSURE PROPER COMPACTION.
- TOP LIFT MUST BE UNIFORM THICKNESS; INTERMEDIATE LIFTS CAN BE PLACED AT 1 1/4" TO 2 1/2" COMPACTED.
- REQUIREMENTS FOR PROPER COMPACTION:
 - MINIMUM 265° F DELIVERY TEMPERATURE OF MATERIAL. PLACE AND SPREAD MATERIAL BEFORE IT COOLS TO 260° F. MATERIAL BELOW TEMPERATURE REQUIREMENT WILL BE REJECTED.
 - COMPACT NON-SURFACE LIFTS WITH VIBRATORY PLATE COMPACTOR MEETING THE FOLLOWING REQUIREMENTS:
 - DESIGNED TO COMPACT ASPHALT
 - EQUIPPED WITH A WATER TANK
 - CENTRIFUGAL FORCE 3200 LBS TO 6000 LBS
 - WEIGHS MINIMUM 160 LBS (WITHOUT WATER)
 - MINIMUM 4400 VIBRATIONS PER MINUTE
 - COMPACT TOP LIFT WITH 3 1/2 TO 4 1/2 TON DOUBLE DRUM ROLLER, DESIGNED TO COMPACT BITUMINOUS CONCRETE.
 - PROVIDE NUMBER OF PASSES BASED ON LIFT THICKNESS AS FOLLOWS:

LIFT THICKNESS (INCHES)	NUMBER OF PASSES
1 1/4 TO 1 1/2	8
1 1/2 TO 2	10
2 TO 2 1/2	12
- ADDITIONAL COMPACTING EQUIPMENT MAY BE REQUIRED TO COMPLETE LIFT COMPACTION BEFORE MATERIAL COOLS TO 180° F.
- AT CORNERS OR OTHER AREAS INACCESSIBLE TO PLATE TAMPER, HAND TAMP 20 TIMES MINIMUM BEFORE MATERIAL COOLS TO 180° F.
- ALTERNATE EQUIPMENT MAY BE REQUESTED AS A SUPPLEMENT TO CONTRACTOR'S QC PLAN. THE EQUIPMENT AND PROCEDURES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
- IF THESE METHODS ARE NOT PERFORMED TO THE SATISFACTION OF THE ENGINEER, DENSITY VERIFICATION MAY BE REQUIRED WHEREIN THE CONTRACTOR SHALL PROVIDE DENSITY TESTING WITH A QC NUCLEAR DENSITY GAUGE OR COLLECT CORE SAMPLES AS SPECIFIED IN SECTION 4.06.

SUGGESTED SEQUENCE OF WORK

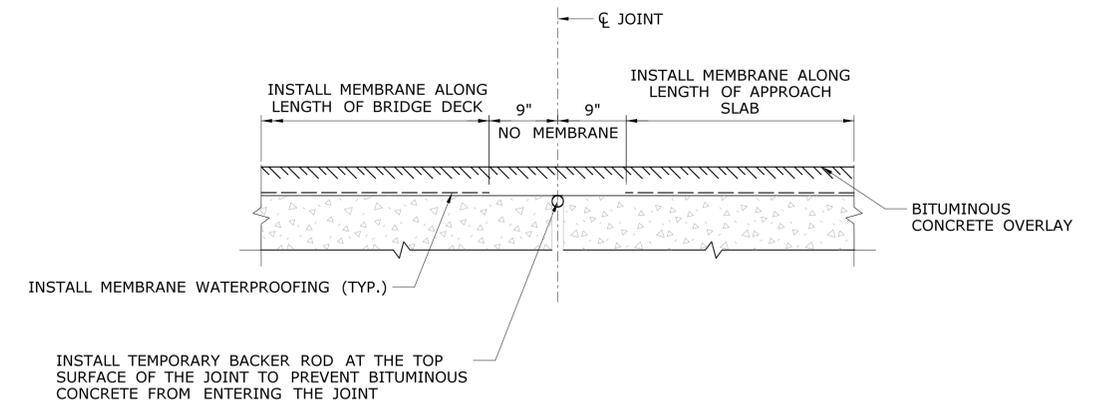
- STEP 1: INSTALL TEMPORARY BACKER ROD FLUSH WITH THE BRIDGE DECK AND APPROACH SLAB OR BACKWALL.
- STEP 2: INSTALL MEMBRANE WATERPROOFING TO THE TOP OF DECK AND APPROACH SLAB WITHIN THE LIMITS SHOWN.
- STEP 3: PLACE BITUMINOUS CONCRETE OVERLAY AS INDICATED ON THE PLANS.
- STEP 4: SAW-CUT PAVEMENT FULL DEPTH AT 10" EACH SIDE OF CENTERLINE OF JOINT, AND REMOVE ALL PAVEMENT MATERIAL BETWEEN SAW-CUTS. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- STEP 5: INSTALL PROPOSED ASPHALTIC PLUG EXPANSION JOINT SYSTEM WITH FOAM SUPPORTED SILICONE GLAND AND BRIDGING PLATE. LOCATING PINS SHALL NOT BE USED TO SECURE THE BRIDGING PLATE.
- STEP 6: INSTALL CRACK SEAL AT THE INTERFACE OF CURB AND BITUMINOUS CONCRETE OVERLAY. CRACK SEALING SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "JOINT AND CRACK SEALING OF BITUMINOUS CONCRETE PAVEMENT".

ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES

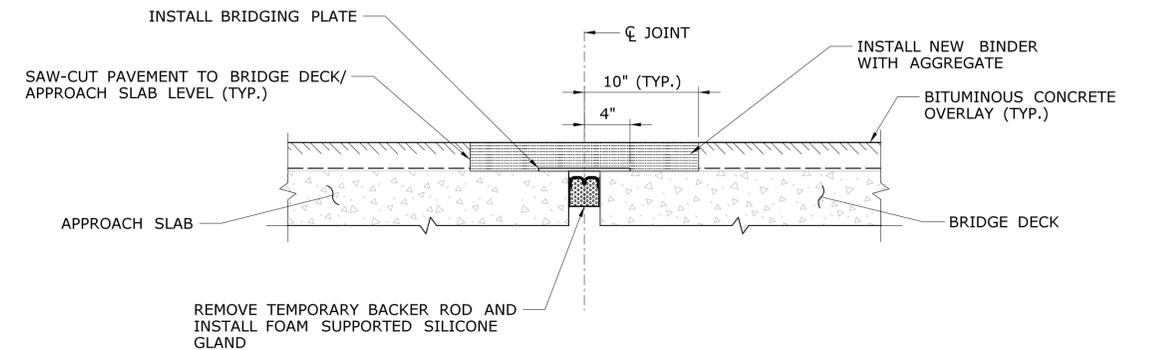
- A BRIDGING PLATE SHALL BE USED TO SPAN THE JOINT BETWEEN A DECK END AND A CONCRETE APPROACH SLAB.
- TEMPORARY CLOSED CELL BACKER ROD DIAMETER SHALL BE DETERMINED AFTER MEASURING THE JOINT OPENING, THE ROD SHALL BE 25% LARGER THAN THE JOINT OPENING.
- INSTALLATION OF MEMBRANE WITHIN THE LIMITS SHOWN TO BE PAID UNDER THE ITEM, "MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)".
- THE FURNISHING AND PLACING OF HMA S0.5 TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "HMA S0.5".
- SAW-CUTTING AND REMOVAL OF PAVEMENT FOR JOINT INSTALLATION TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- INSTALLATION OF FOAM SUPPORTED SILICONE GLAND TO BE PAID UNDER THE ITEM "PREFORMED JOINT SEAL".
- ASPHALTIC PLUG EXPANSION JOINT SYSTEMS MAY BE INSTALLED ONLY WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE SPECIAL PROVISION "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". THE DESIGN DECK JOINT THERMAL MOVEMENT RANGE IS 0" - 1".

JOINT OPENING TABLE

INSTALLATION TEMPERATURE	PERPENDICULAR JOINT OPENING
45° F	1 1/2"
55° F	1 1/2"
65° F	1 1/2"
75° F	1 3/8"
85° F	1 3/8"
95° F	1 3/8"



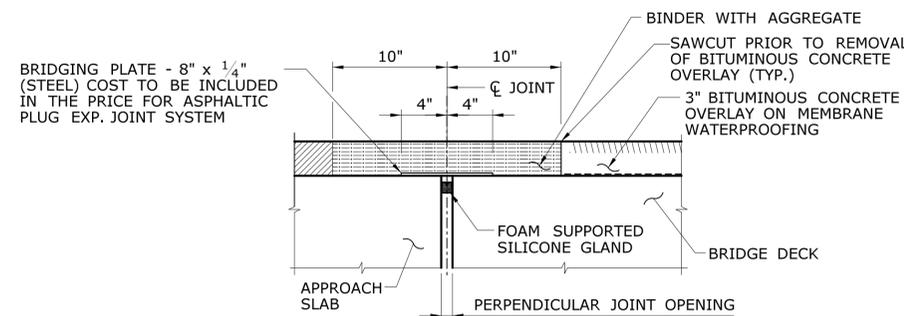
PLACEMENT OF PAVEMENT ALONG THE BRIDGE



INSTALL ASPHALTIC PLUG EXPANSION JOINT

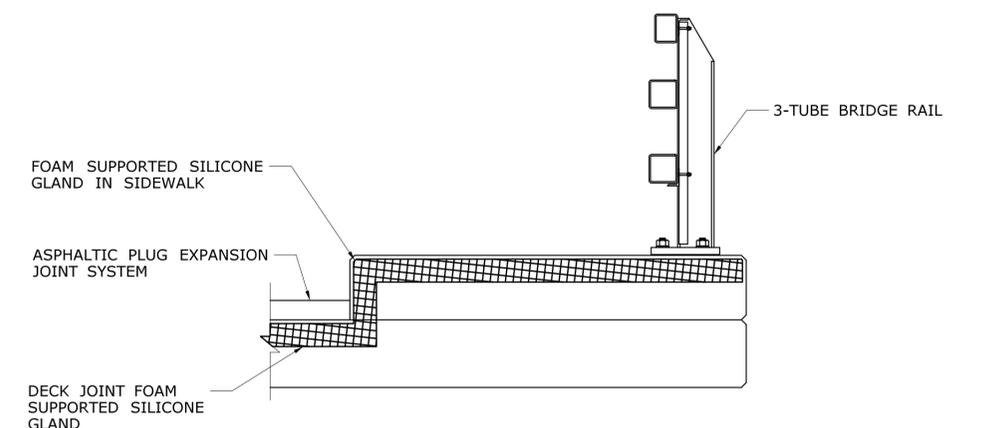
INSTALLATION OF ASPHALTIC PLUG JOINT WITH BRIDGING PLATE

N.T.S.



ASPHALTIC PLUG EXPANSION JOINT DETAIL

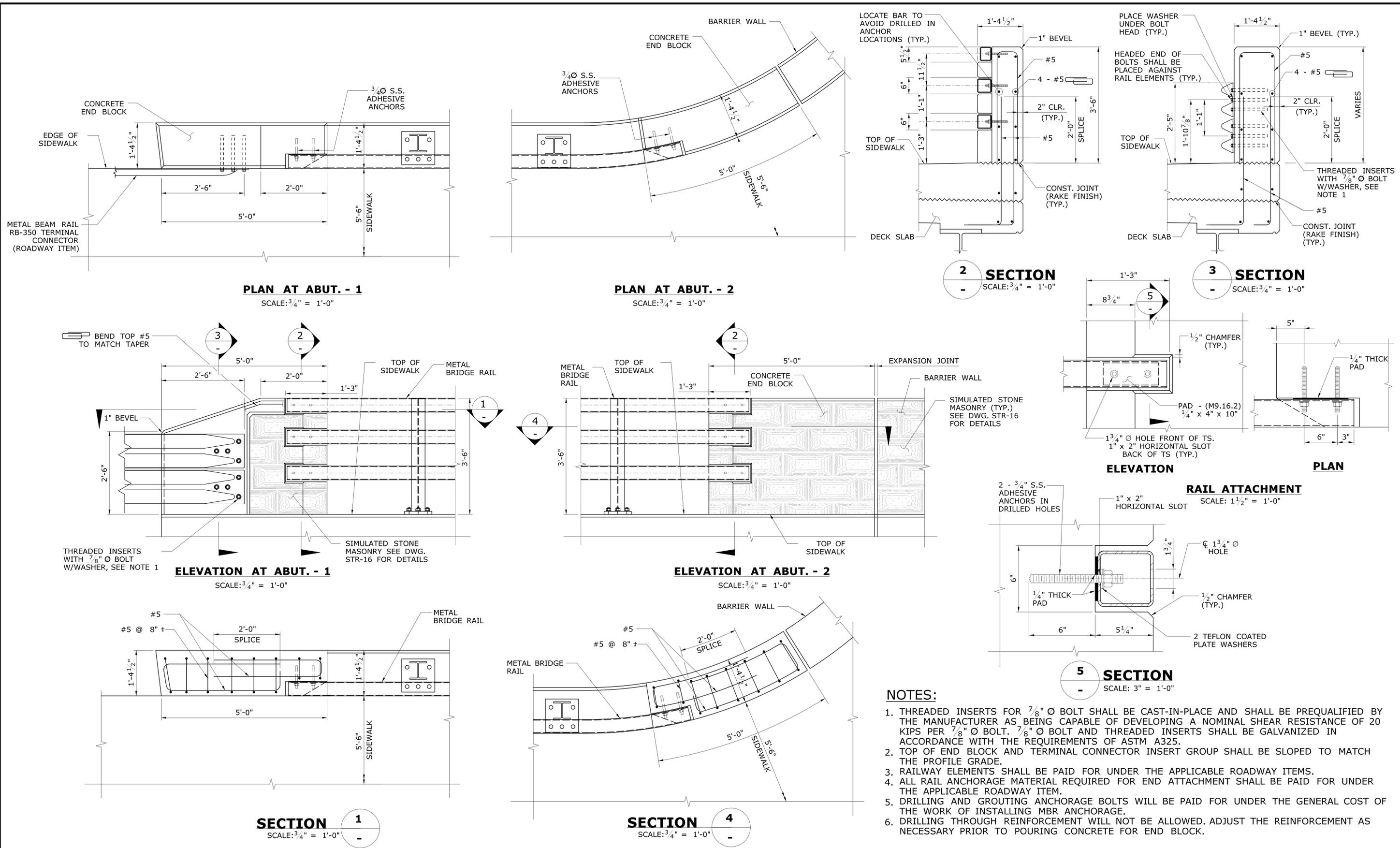
SCALE: 1 1/2" = 1'-0"



JOINT TREATMENT AT 3-TUBE BRIDGE RAIL

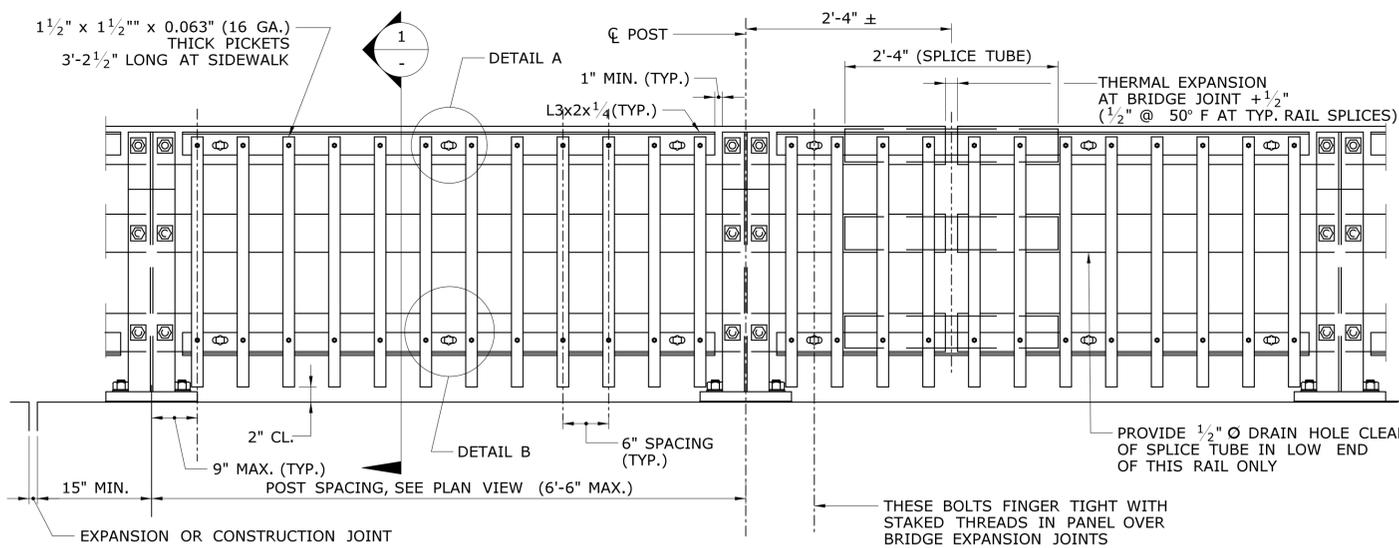
N.T.S.

DESIGNER/DRAFTER: SKS	CITY OF BRISTOL	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
CHECKED BY: VLL					DRAWING NO. STR-14	
SCALE AS NOTED					DRAWING TITLE: ASPHALTIC PLUG JOINT DETAILS	SHEET NO.
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	Plotted Date: 4/16/2025	Filename: ..._SB_MSH_Br04104_017-04104_APJ_Steel.dgn				

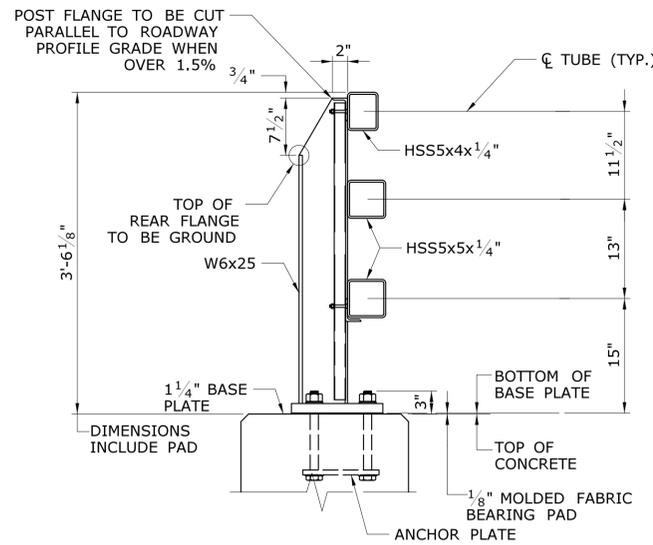


- NOTES:**
1. THREADED INSERTS FOR $\frac{7}{8}$ " \varnothing BOLT SHALL BE CAST-IN-PLACE AND SHALL BE PREQUALIFIED BY THE MANUFACTURER AS BEING CAPABLE OF DEVELOPING A NOMINAL SHEAR RESISTANCE OF 20 KIPS PER $\frac{7}{8}$ " \varnothing BOLT. $\frac{7}{8}$ " \varnothing BOLT AND THREADED INSERTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A325.
 2. TOP OF END BLOCK AND TERMINAL CONNECTOR INSERT GROUP SHALL BE SLOPED TO MATCH THE PROFILE GRADE.
 3. RAILWAY ELEMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.
 4. ALL RAIL ANCHORAGE MATERIAL REQUIRED FOR END ATTACHMENT SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEM.
 5. DRILLING AND GROUTING ANCHORAGE BOLTS WILL BE PAID FOR UNDER THE GENERAL COST OF THE WORK OF INSTALLING MBR ANCHORAGE.
 6. DRILLING THROUGH REINFORCEMENT WILL NOT BE ALLOWED. ADJUST THE REINFORCEMENT AS NECESSARY PRIOR TO POURING CONCRETE FOR END BLOCK.

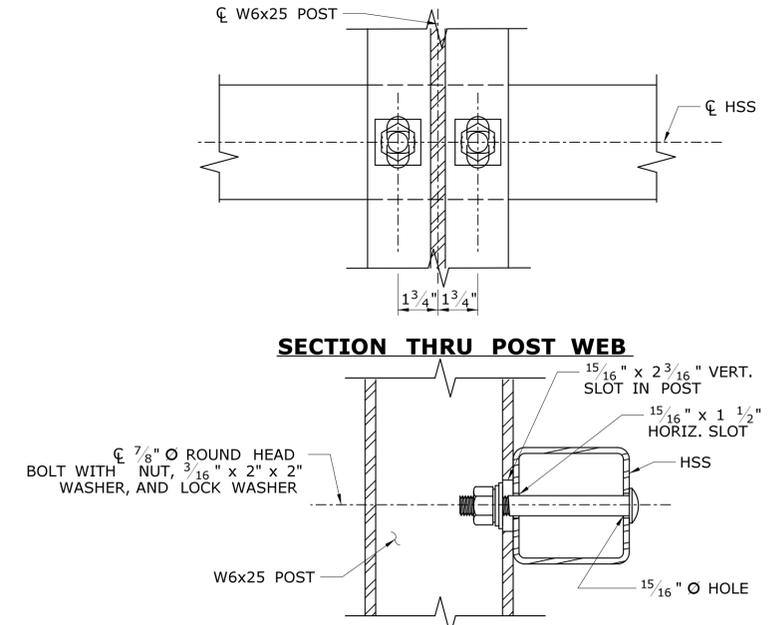
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED	CITY OF BRISTOL Filename: ...SB_MSH_Br04140_017_04104_END_BLOCK_Steel.dgn	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 170-04104 DRAWING NO. STR-15 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/16/2025	DRAWING TITLE: END BLOCK DETAILS		



BRIDGE RAILING ELEVATION
SCALE: 1" = 1'-0"



SECTION 1
SCALE: 1" = 1'-0"

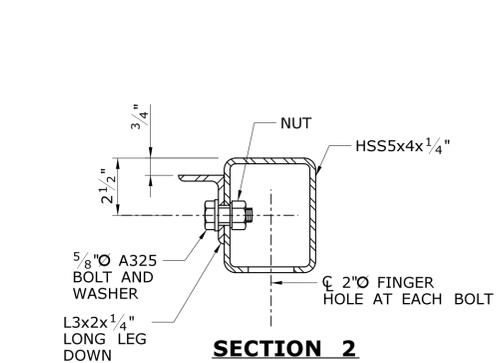


SECTION THRU RAIL

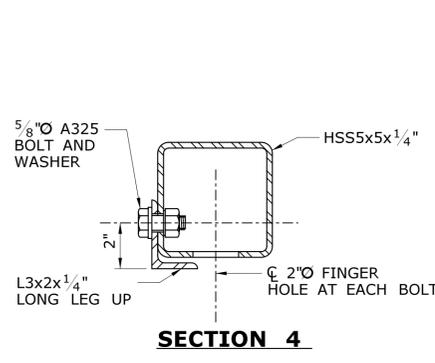
NOTE:
CONNECTIONS AT LOWER RAIL SHOWN.
CONNECTIONS AT TOP RAIL SIMILAR.

TYPICAL RAIL TO POST CONNECTIONS
SCALE: 3" = 1'-0"

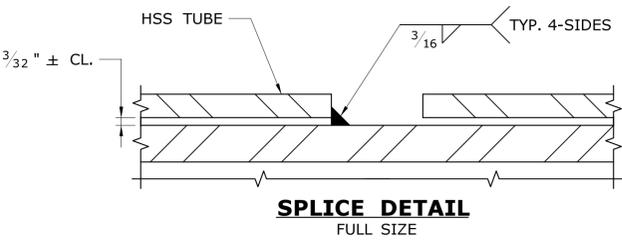
NOTE:
ELEVATION AT SIDEWALK SHOWN.



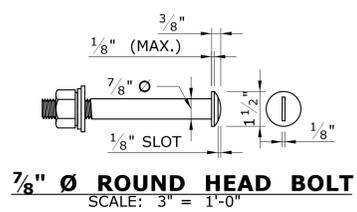
SECTION 2



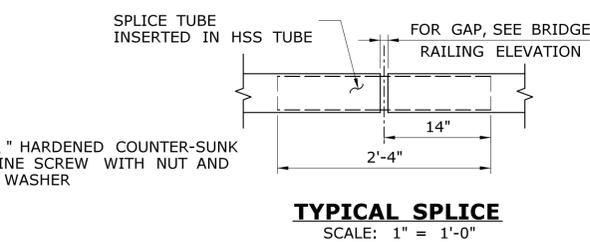
SECTION 4



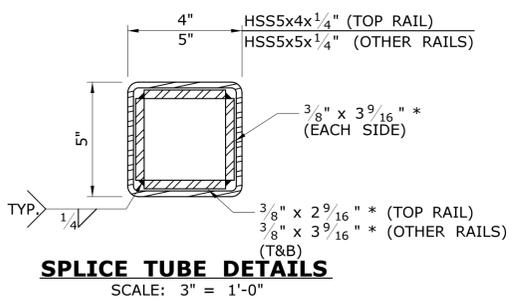
SPLICE DETAIL
FULL SIZE



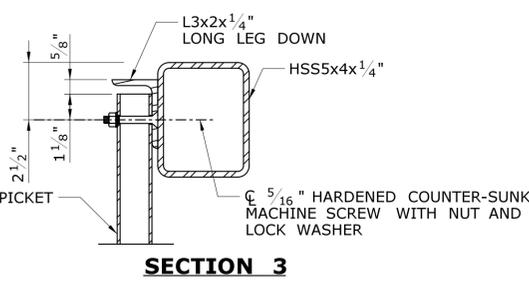
7/8\"/>



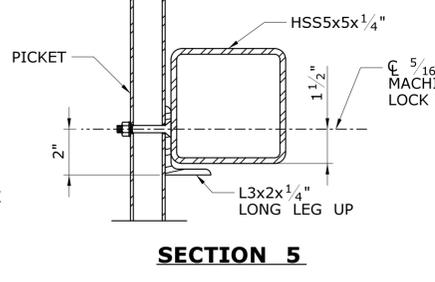
TYPICAL SPLICE
SCALE: 1" = 1'-0"



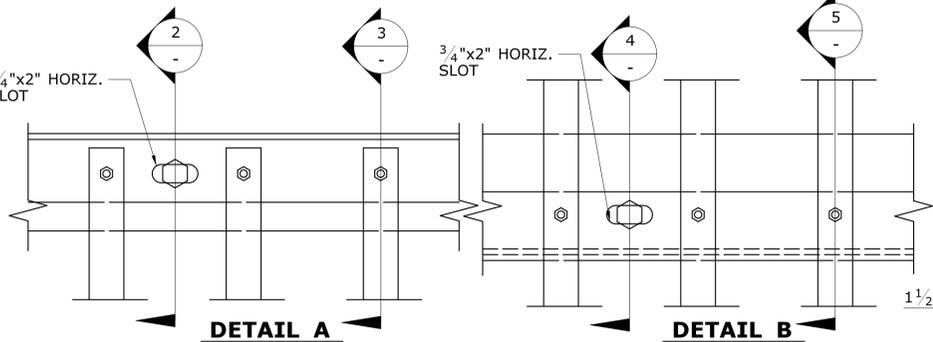
SPLICE TUBE DETAILS
SCALE: 3" = 1'-0"



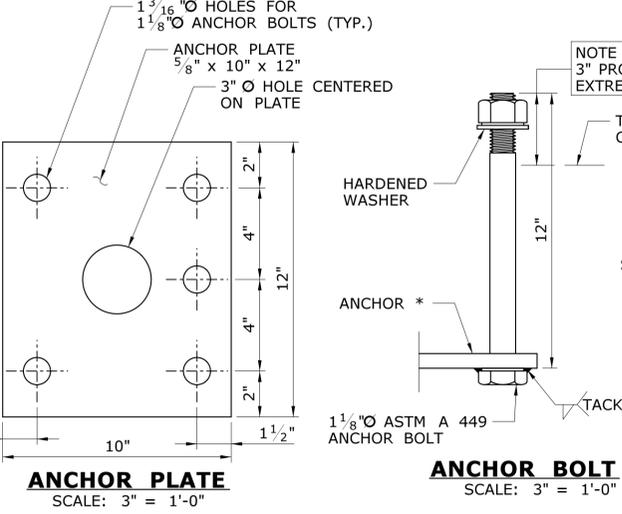
SECTION 3



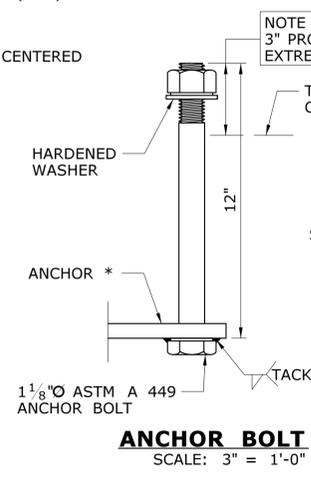
SECTION 5



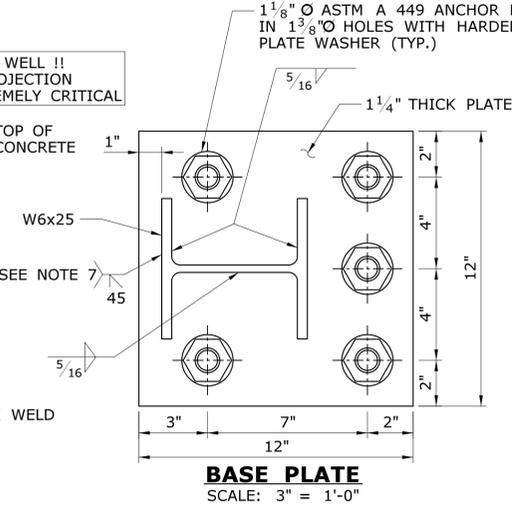
TYPICAL PICKET TO RAIL DETAILS



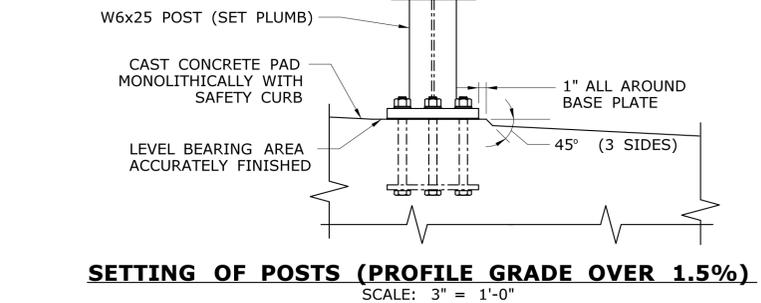
ANCHOR PLATE
SCALE: 3" = 1'-0"



ANCHOR BOLT
SCALE: 3" = 1'-0"



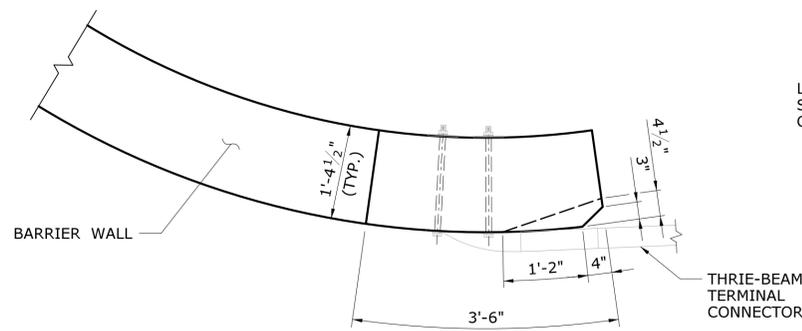
BASE PLATE
SCALE: 3" = 1'-0"



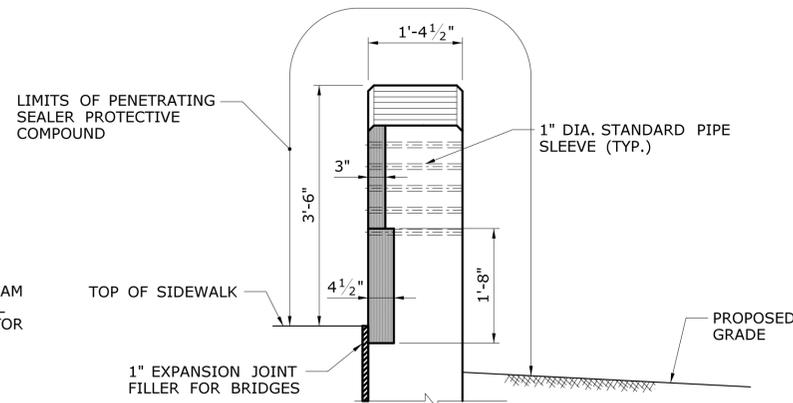
SETTING OF POSTS (PROFILE GRADE OVER 1.5%)
SCALE: 3" = 1'-0"

- RAILING NOTES:**
- FOR MATERIAL REQUIREMENTS SEE SPECIAL PROVISION FOR ITEM "METAL BRIDGE RAIL".
 - ALL STEEL (EXCEPT THE 5/8" ANCHOR PLATE AND FASTENERS) SHALL BE GALVANIZED AND PAINTED BLACK (FEDERAL STD. 595B COLOR NO. 17038). ANCHOR PLATE SHALL BE GALVANIZED ONLY. HEADS OF 7/8" ROUND HEAD BOLTS SHALL BE PAINTED TO MATCH RAIL.
 - ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN AFTER STEEL IS IN PLACE.
 - RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF FOUR (4) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN THE PANELS OVER EXPANSION JOINT.
 - ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
 - ALL POSTS TO BE PLUMB WHEN PROFILE GRADE EXCEEDS 1.5%. FOR PROFILE GRADES LESS THAN 1.5%, POSTS SHALL BE SET PERPENDICULAR TO GRADE.
 - POST FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. WELD SHALL BE BACK-GOUGED ON BACK SIDE EXCEPT AT WEB. WELD IS THE SAME ON BOTH FLANGES.
 - 7/8" ROUND HEAD BOLTS SHALL CONFORM TO THE CHEMICAL AND PHYSICAL REQUIREMENTS OF AASHTO M 164.

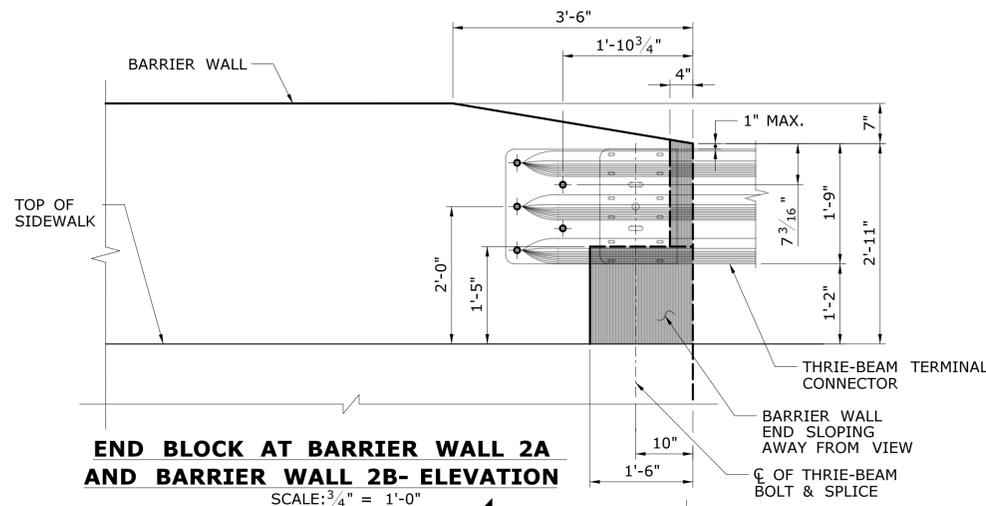
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD	CITY OF BRISTOL	SIGNATURE/ BLOCK:	GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
Plotted Date: 4/16/2025		CHECKED BY: VLL						
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Filename: ...\\SB_MSH_Br04104_017-04104_RLD_Steel.dgn				



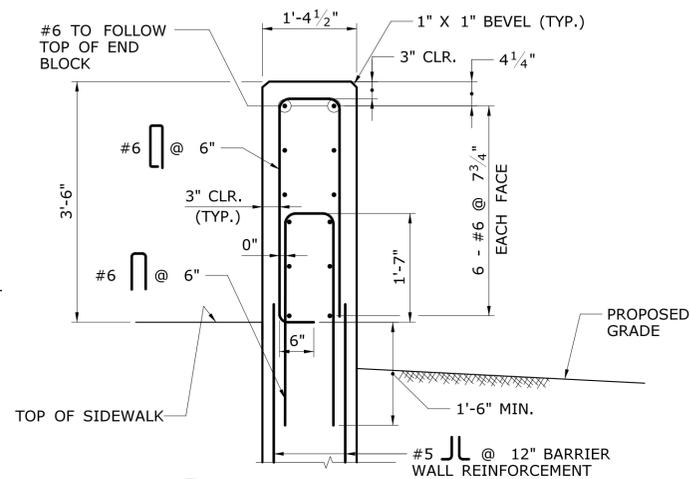
END BLOCK AT BARRIER WALL 2A AND BARRIER WALL 2B- PLAN
SCALE: 3/4" = 1'-0"



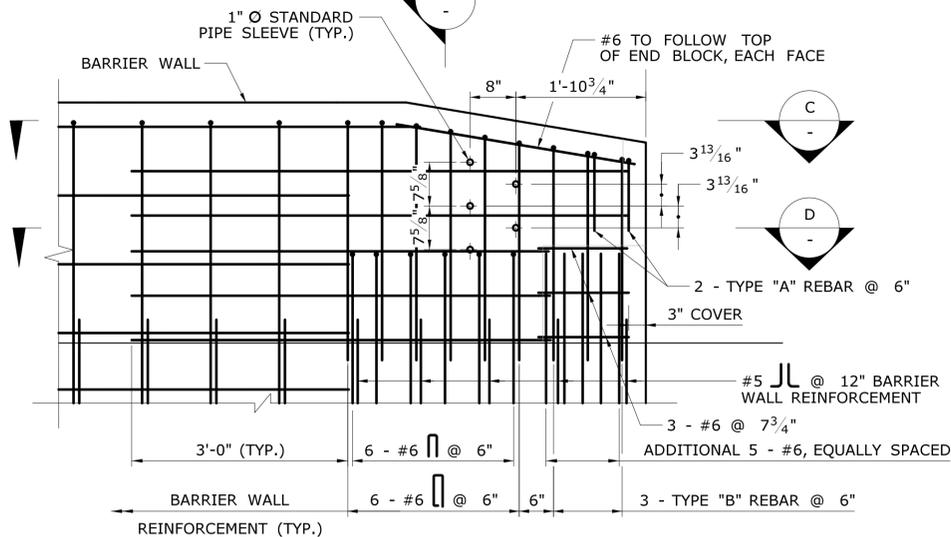
A END VIEW
SCALE: 3/4" = 1'-0"



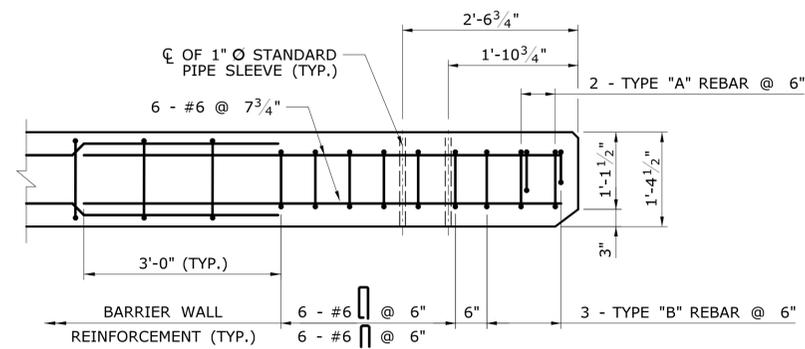
END BLOCK AT BARRIER WALL 2A AND BARRIER WALL 2B- ELEVATION
SCALE: 3/4" = 1'-0"



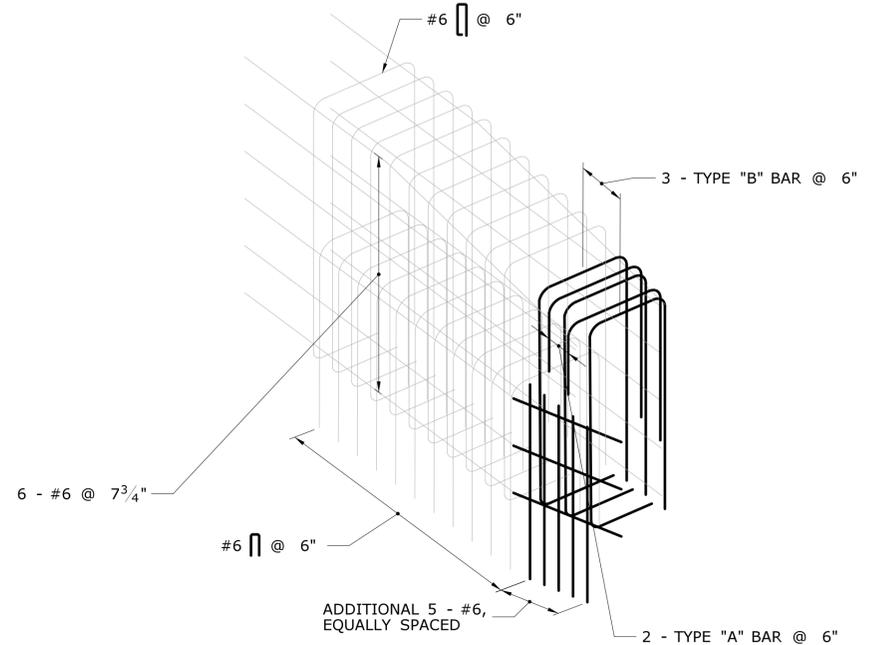
B END VIEW
SCALE: 3/4" = 1'-0"



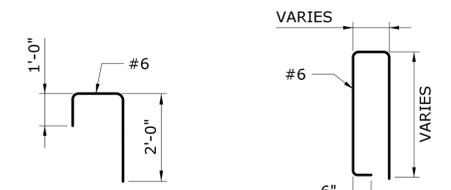
END BLOCK AT BARRIER WALL 2A AND BARRIER WALL 2B - REINFORCEMENT
SCALE: 3/4" = 1'-0"



C SECTION
SCALE: 3/4" = 1'-0"

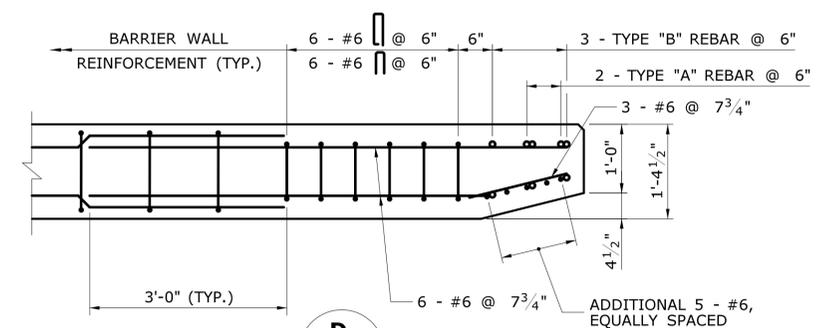


ISOMETRIC VIEW - REINFORCEMENT DETAIL AT ENDBLOCK
SCALE: N.T.S.



TYPE "A" REBAR
SCALE: N.T.S.

TYPE "B" REBAR
SCALE: N.T.S.

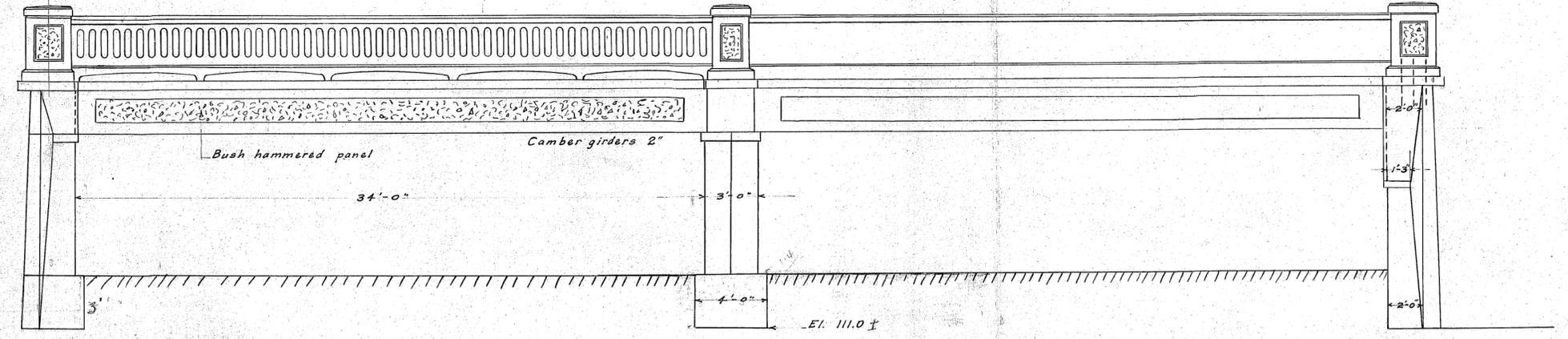
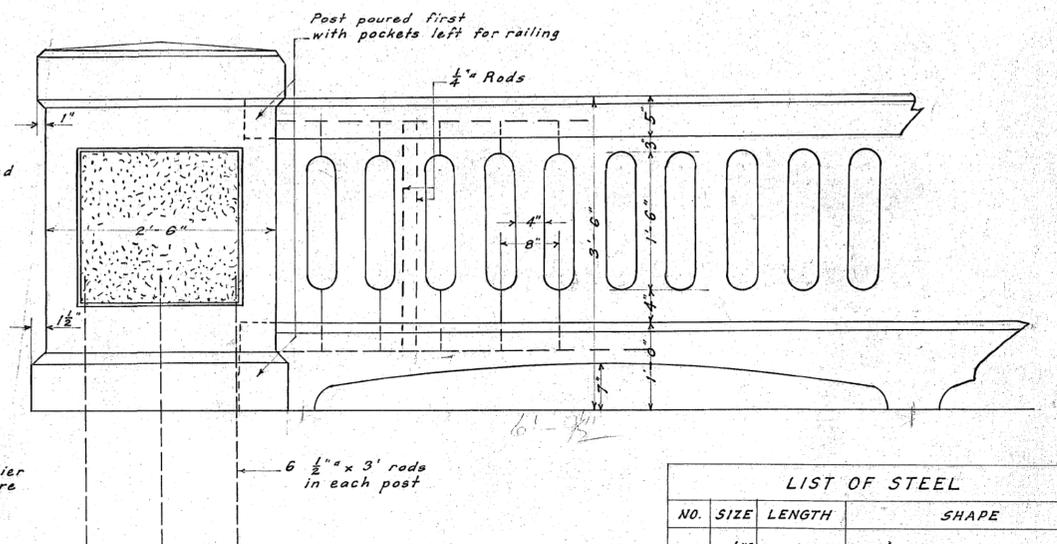
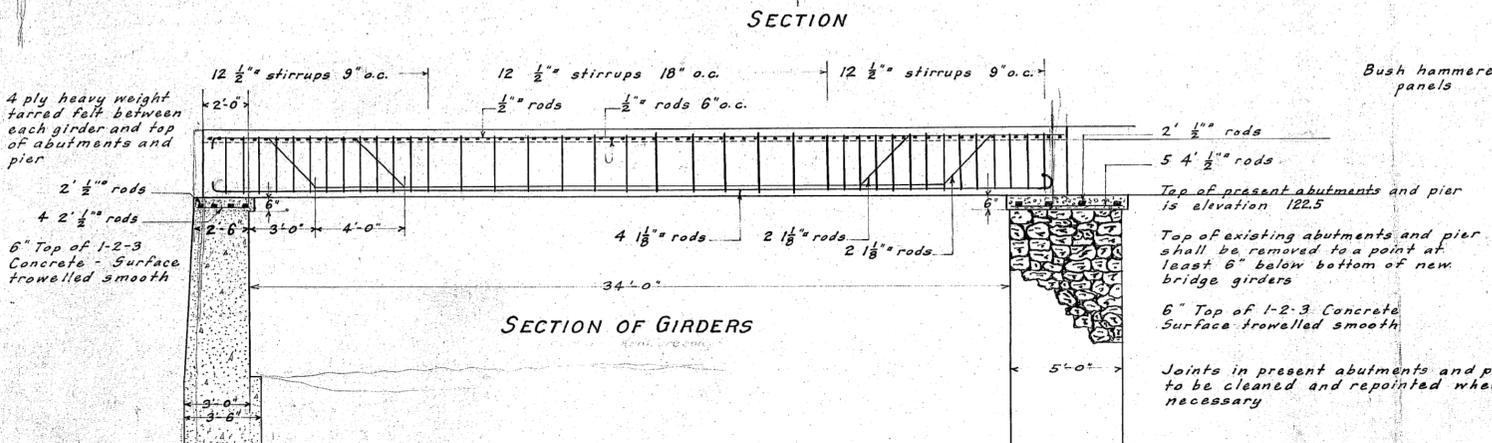
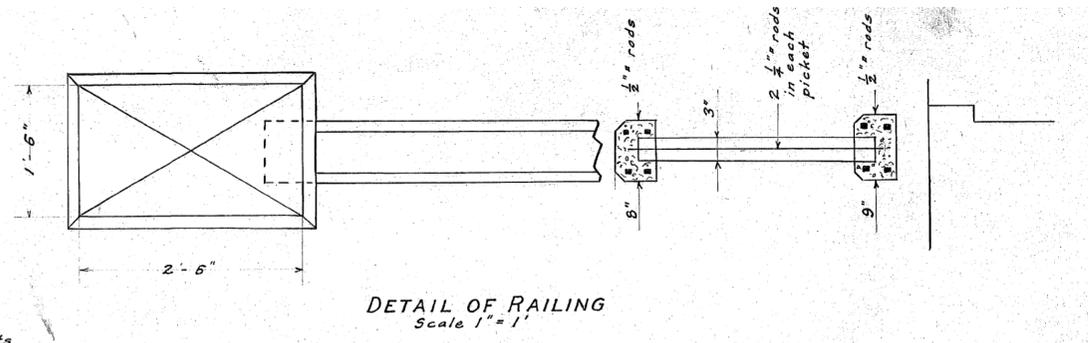
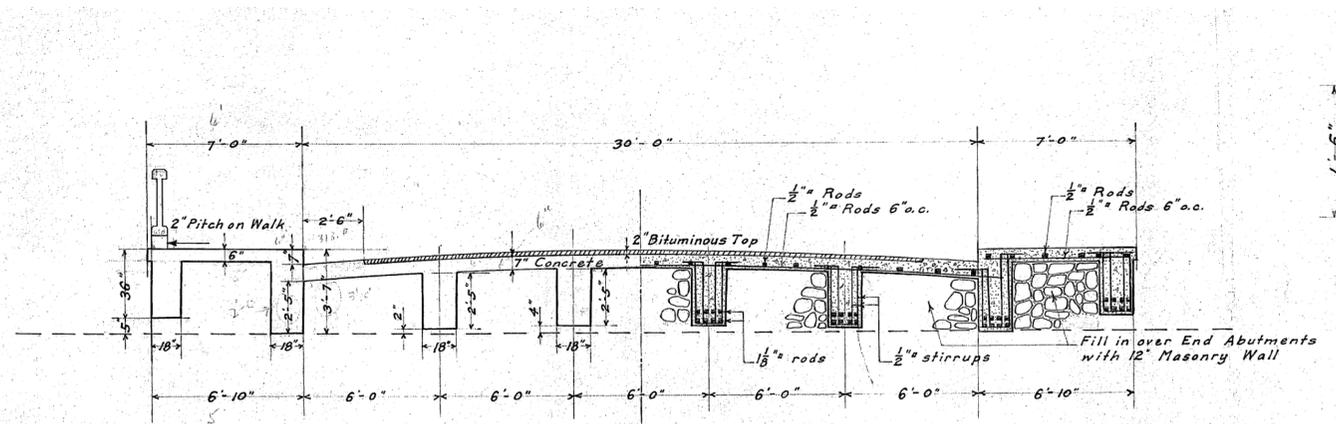


D SECTION
SCALE: 3/4" = 1'-0"

NOTES:

- 1" DIA. PIPE SHALL CONFORM TO ASTM A53 GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
- RAILWAY ELEMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.
- ALL RAIL ANCHORAGE MATERIAL REQUIRED FOR END ATTACHMENT SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEM.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: SD CHECKED BY: VLL SCALE AS NOTED	CITY OF BRISTOL FILENAME: ...SB_MSH_Br04140_017_04104_THRIE_BEAM_ATTACHMENT_Steel.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. STR-18 SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 4/16/2025	SCALE AS NOTED	FILENAME: ...SB_MSH_Br04140_017_04104_THRIE_BEAM_ATTACHMENT_Steel.dgn	SIGNATURE/BLOCK:	REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	BRISTOL	017-04104 STR-18



LIST OF STEEL			
NO.	SIZE	LENGTH	SHAPE
64	1 1/8"	37'-0"	
32	1 1/8"	39'-0"	
32	1 1/8"	39'-0"	
144	1/2"	7'-2"	
144	1/2"	7'-2"	
72	1/2"	7'-9"	
72	1/2"	7'-9"	
72	1/2"	6'-10"	
72	1/2"	6'-10"	
154	1/2"	31'-0"	Straight
308	1/2"	6'-8"	Straight
64	1/2"	37'-0"	Straight
36	1/2"	3'-0"	Straight
16	1/2"	35'-0"	Straight
16	1/2"	36'-0"	Straight
430	1/2"	2'-8"	Straight
208	1/2"	2'-0"	Straight
20	1/2"	4'-0"	Straight

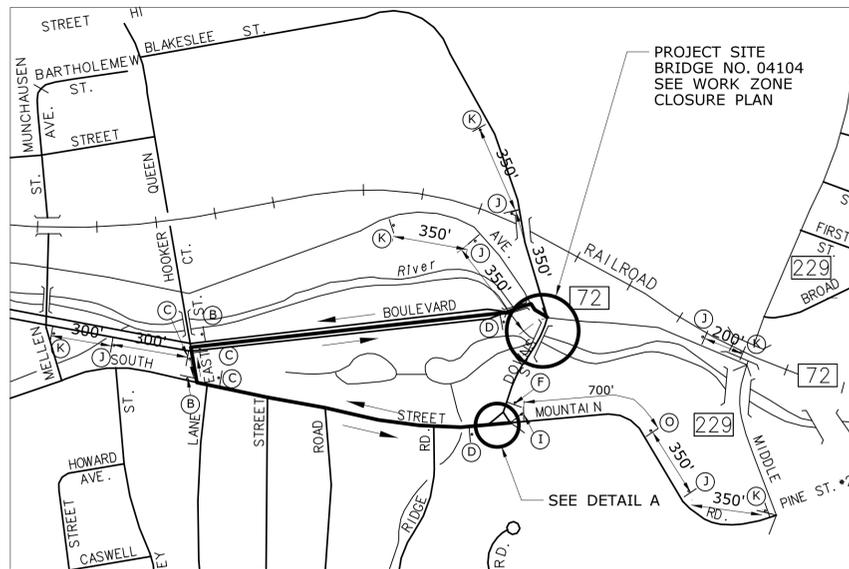
Scale 1/4" = 1'
August 1926

PLANS FOR NEW BRIDGE
AT DOWNS STREET IN BRISTOL CONN.

Carleton W. Buell
City Engineer

ORIGINAL DESIGN PLAN
FOR INFORMATION ONLY (N.T.S)

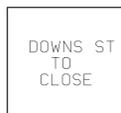
DESIGNER/DRAFTER: SD	CITY OF BRISTOL	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104
CHECKED BY: VLL					
SCALE AS NOTED	Plotted Date: 4/16/2025	Filename: ...SB_MSH_Br04104_017_04104_EXISTING_PLAN_Steel.dgn	REVISION DESCRIPTION	SHEET NO.	SHEET NO.



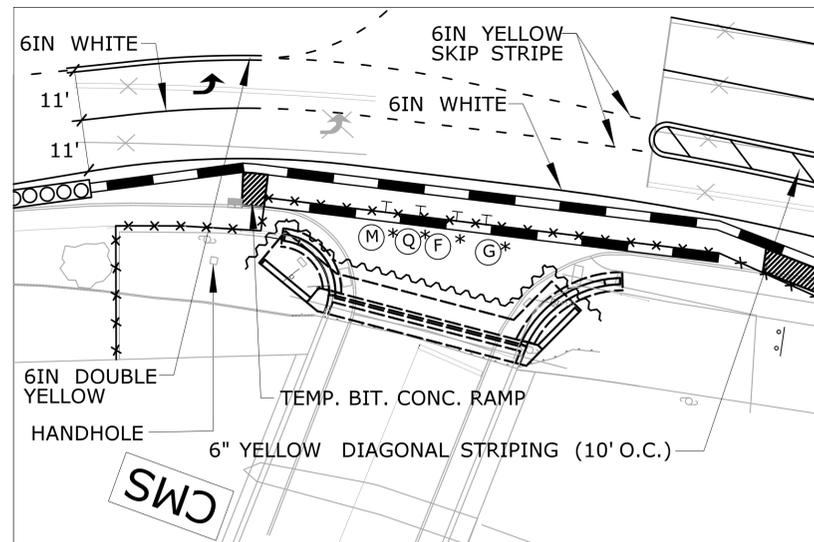
DETOUR PLAN
NOT TO SCALE

CHANGEABLE MESSAGE SIGN (CMS):

MESSAGE 1



MESSAGE 2



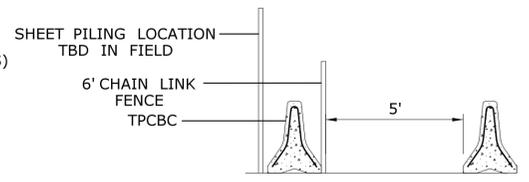
WORK ZONE CLOSURE DETAIL PLAN
SCALE: 1"=20'

LEGEND

- DENOTES SHEET PILING
 - DENOTES TPCBC
 - DENOTES 6' CHAIN LINK FENCE
 - DENOTES TEMPORARY BIT. CONC. RAMP
 - DENOTES ABSORB 350 OR EQUIVALENT
- SIGNS M, Q, F & G TO BE INSTALLED ON THE CHAIN LINK FENCE

SIGN LEGEND

- (A) 80-9933
- (B) 80-9919
- (C) 80-9919
- (D) 80-9919
- (E) 80-9078 (SPECIAL)
- (F) 80-1613
- (G) 80-9080
- (H) 31-0552
- (I) 80-9919
- (J) 80-9919
- (K) 80-9933
- (L) 80-9710 (L)
- (M) 80-9701R
- (N) 80-9702L
- (O) 80-9928 (SPECIAL)
- (P) 80-1619
- (Q) 31-1120
- (R) 31-0311, INSTALL 36"
- (S) 31-0135

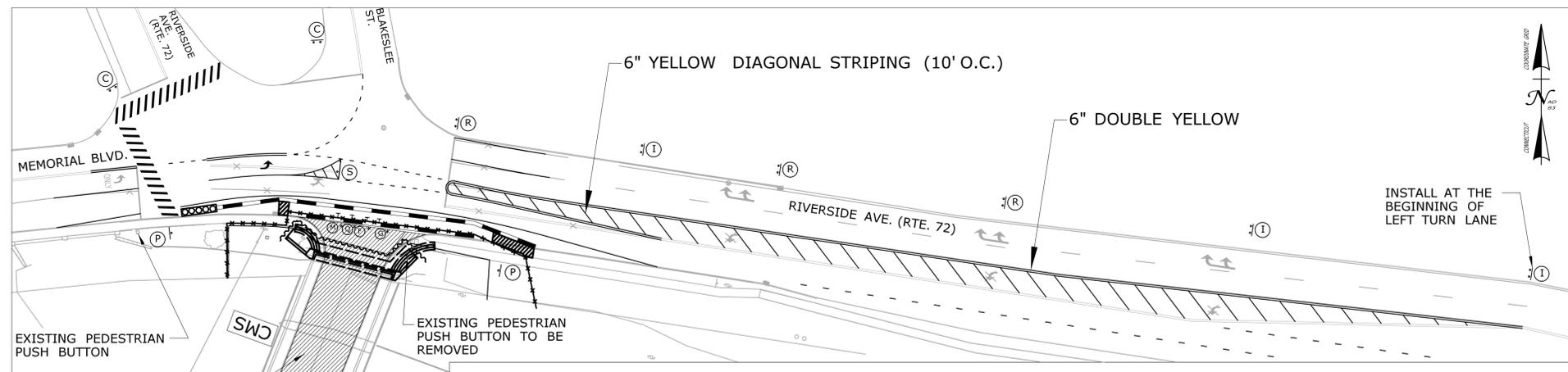


TEMPORARY BIT. CONC. SIDEWALK DETAIL

SIGN SUMMARY

SIGN NO.	AREA (SF)	QTY.	TOTAL (SF)
80-9933	9.0	11	99.0
80-9919	2.08	24	50.0
80-9710	5.0	12	60.0
80-9708	3.0	2	6.0
80-9078	12.5	2	15.0
80-1613	5.0	2	10.0
80-9080	10.0	2	20.0
31-0552	6.25	1	6.3
80-9701R	6.0	1	6.0
80-9702L	6.0	1	6.0
80-9928	12.5	1	12.5
80-1619	10.0	2	20.0
31-1120	9.0	1	9.0
31-0210	9.0	3	27

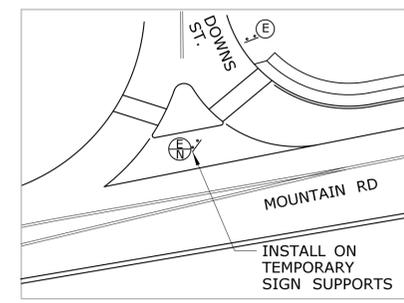
TOTAL: 65 SIGNS
356.8 SF



WORK ZONE CLOSURE PLAN
SCALE: 1"=40'

LEGEND

- SIGN - SINGLE POST
- SIGN - DOUBLE POST
- CONSTRUCTION BARRICADE - TYPE III
- SIGN MOUNTED ON CONSTRUCTION BARRICADE/TPCBC
- TEMPORARY TRAFFIC BARRIER
- TRAFFIC DRUM
- * SIGN WITH HIGH INTENSITY BARRICADE WARNING LIGHT
- CMS REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN. SEE NOTE 6.
- CONSTRUCTION AREA



DETAIL A
NOT TO SCALE

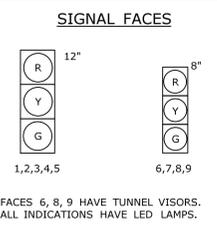
DETOUR NOTES:

1. REFER TO THE SPECIAL PROVISIONS AND SPECIFICATIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS" FOR ADDITIONAL REQUIREMENTS.
2. ALL ROADWAY CLOSURES SHALL BE COORDINATED WITH THE CITY OF BRISTOL.
3. ACTUAL LOCATIONS OF SIGNS TO BE DETERMINED BY THE ENGINEER.
4. DETOUR TO BE PAID FOR UNDER ITEM#1220027 "CONSTRUCTION SIGNS".
5. CONTRACTOR TO NOTIFY THE ENGINEER, THE CITY OF BRISTOL AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO THE ROADWAY CLOSURE.
6. AT LEAST TWO WEEKS PRIOR TO INITIATING DETOUR, INSTALL REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN (CMS) ON DOWNS STREET IN BOTH DIRECTIONS NOTIFYING ABOUT UPCOMING ROAD CLOSURE. ACTUAL LOCATIONS OF CMS TO BE VERIFIED BY THE ENGINEER.
7. ANY RELOCATING OF TPCBC REQUIRED FOR CONTRACTOR'S DAILY ACCESS SHALL NOT BE MEASURED FOR PAYMENT AND INCLUDED IN THE GENERAL COST OF THE PROJECT.
8. CONTRACTOR SHALL MAINTAIN PRIVATE DRIVEWAY ACCESS AT ALL TIMES.
9. CLOSURE PLAN TO BE MAINTAINED DURING EXISTING BRIDGE DEMOLITION AND PROPOSED BRIDGE CONSTRUCTION. SEE SPECIAL PROVISIONS-LIQUIDATED DAMAGES.
10. EXISTING SIGNS IN CONFLICT WITH DETOUR SIGNS ARE TO BE REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
11. REMOVE DYCL, LEFT TURN ARROWS AND STOP LINE AS SHOWN.
12. INSTALL DYCL OVER THE EXISTING SKIP LINES AS SHOWN TO THE STOP LINE.
13. INSTALL POST-MOUNTED SIGNS IN ACCORDANCE WITH STANDARD SHEETS TR_1208-01 AND TR_1208-02
14. WHEN CONSTRUCTION IS COMPLETE AND DOWNS ST IS REOPEN TO TRAFFIC, RESTORE LANE USE SIGNS AND PAVEMENT MARKINGS TO WHAT HAD EXISTED PRIOR TO CONSTRUCTION.

<p>REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/9/2025</p>	<p>DESIGNER/DRAFTER: LQ CHECKED BY: VA SCALE AS NOTED</p>	<p>CITY OF BRISTOL</p> <p>Filename: ...TR_MSH_DTR_017-04104_11-29-2023-new.dgn</p>	<p>SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033</p>	<p>PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04104 OVER PEQUABUCK RIVER</p>	<p>TOWN: BRISTOL DRAWING TITLE: DETOUR PLAN</p>	<p>PROJECT NO. 017-04104 DRAWING NO. TRA-01 SHEET NO.</p>
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MOVEMENT DIAGRAM																								
NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8																
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
F A C E #	1	Y			G	Y	R	R	R	R	R	R	R											
	2	Y			G	Y	R	R	R	R	R	R	R											
	3	Y			G	Y	R	R	R	R	R	R	R											
	4	Y			G	Y	R	R	R	R	R	R	R											
	5	R			R	R	R	G	Y	R	R	R	R											
	6	R			R	R	R	G	Y	R	R	R	R											
	7	R			R	R	R	R	R	R	G	Y	R											
	8	R			R	R	R	R	R	R	G	Y	R											
	9	R			R	R	R	R	R	R	G	Y	R											

TECHNICAL NOTES STANDARD OVERLAP SKIP FEATURES APPLY (P1) PUSH BUTTON 1 TO CALL PHASE 3. (P2) PUSH BUTTON 2 TO CALL PHASE 4.	OFFICE RECORD REV # 11 TIR # N/A SM # 101652 REVISOR: 6/4/2019 SIGNAL REVISION: 6/4/2019
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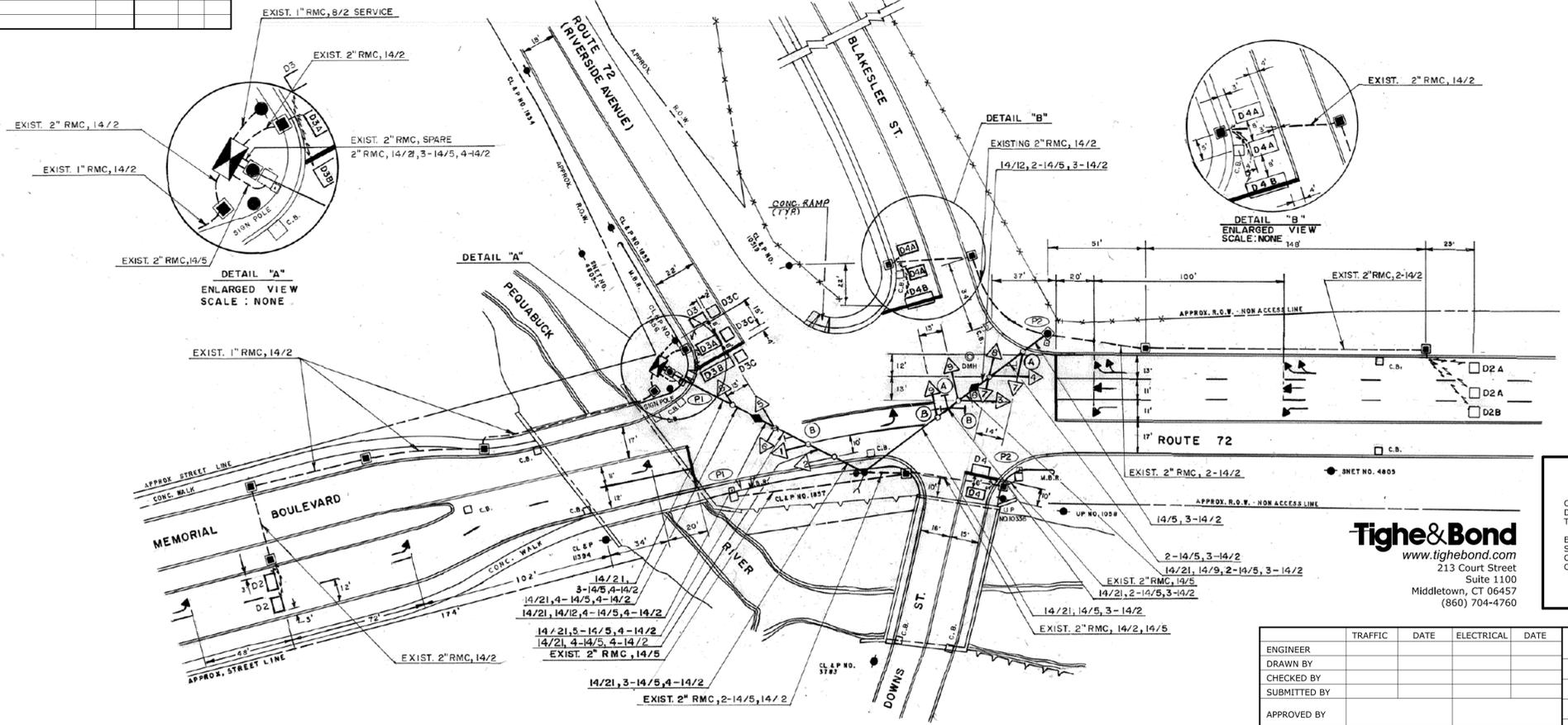


CTDOT RECORD PLAN

IDENT	SIZE (WXL)	TURNS	MODE	SYSTEM LOC MASTER	COORDINATION TYPE: NONE			CYCLE	OFFSET
					FUNCTION	PROGRAM TIME	DAYS		
D2	8' X 6'	3	PRESENCE		FLASH	2200-0500	DAILY		
D2A	6' X 6'	3	PRESENCE		MAX 1	ALL OTHER TIMES			
D2B	6' X 6'	3	PRESENCE		MAX 2	0700-0900	M-F		
D3	10' X 6'	3	PRESENCE			1500-1800			
D3A	12' X 6'	3	PRESENCE						
D3B	17' X 6'	3	PRESENCE						
D3C	6' X 6'	3	PRESENCE						
D4	10' X 6'	3	DELAY 8"						
D4A	10' X 6'	3	PRESENCE						
D4B	15' X 6'	3	PRESENCE						

- SIGN LEGEND
- (A) EXIST. 31-0823 (NTOR) - SPAN MOUNTED
 - (B) 31-0135 () SPAN MOUNTED ONLY

NOTES:
SEE SEPARATE PLAN FOR SIGNS AND PAVEMENT MARKINGS EXCEPT FOR SPAN MOUNTED SIGNS.



CLEARANCE INTERVALS DESIGNED BY: TIGHE & BOND
ENGINEER'S SEAL & SIGNATURE APPLY TO CLEARANCE INTERVALS ONLY.

Tighe & Bond
www.tighebond.com
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

ENGINEER	TRAFFIC	DATE	ELECTRICAL	DATE
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
APPROVED DATE				

REV # 11	INTERSECTION # 017-256
ENERGY BY - CITY	ADDRESS #
MAINT LEVEL 5	SERVICE POLE - CL&- 1857
	UNMETERED SERVICE

SPAN POLE INFORMATION
0 GA - 12" X 30' - 16" B.C.
(DESIGN TENSION = 5750)

- LEGEND:
- R RED
 - Y YELLOW
 - G GREEN
 - ←R RED ARROW
 - ←Y YELLOW ARROW
 - ←G GREEN ARROW
 - W/P WALK/ PED. CLR
 - D.W. DON'T WALK
 - FL. FLASHING
 - PROPOSED WOOD SPAN POLE
 - EXISTING WOOD SPAN POLE
 - PROPOSED STEEL SPAN POLE
 - ⊙ EXISTING STEEL SPAN POLE
 - PROPOSED UTILITY POLE
 - EXISTING UTILITY POLE
 - PEDESTAL MOUNTING
 - ⊠ PEDESTRIAN PUSH BUTTON & SIGN
 - ⊡ DIRECTIONAL ARW. FOR PUSH BUTTON
 - ⊠ TRAFFIC SIGNAL FACE
 - ⊡ PEDESTRIAN SIGNAL FACE
 - ⊠ DET. LEADS IN SAW CUT
 - ⊠ PROPOSED RMC (RIGID METAL CONDUIT)
 - ⊠ EXISTING RMC (RIGID METAL CONDUIT)
 - ⊠ AUXILIARY TERMINATION CABINET
 - ⊠ VIDEO DETECTION ZONE
 - ⊠ PROPOSED CONTROLLER
 - ⊠ EXISTING CONTROLLER
 - ⊠ LOOP DETECTOR
 - ⊠ SD SYSTEM DETECTOR
 - ⊠ MAGNETIC DETECTOR
 - ⊠ OPTICAL DETECTOR
 - ⊠ VIDEO DETECTOR
 - ⊠ AUDIO DETECTOR
 - ⊠ SIDEWALK RAMP
 - ⊠ CABLE CLOSURE
 - ⊠ WIRELESS SENSOR
 - ⊠ WIRELESS RECEIVER
 - ⊠ WIRELESS TRANSMITTER
 - ⊠ GUY WIRE
 - ⊠ PROPOSED HANDHOLE
 - ⊠ EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ROUTE 72 (RIVERSIDE AVE) AT
BLAKESLEE ST, MEMORIAL BLVD,
AND DOWNS ST

TOWN: BRISTOL
PROJECT NO. 171-398
DRAWING NO. TRA-04
SHEET NO.

NO.	DATE	REVISION DESCRIPTION
-----	------	----------------------

SCALE 1" = 40'

R1 - SERIES					R2 - SERIES					R3 - SERIES										R4 - SERIES					R5 - SERIES																																																																																																																																																																																			
R1-1 LEGEND - WHITE BACKGROUND - RED <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> </thead> <tbody> <tr><td>1.85</td><td>18</td><td>31-0532</td><td>1</td><td>.080</td></tr> <tr><td>5.19</td><td>30</td><td>31-0552</td><td>1</td><td>.080</td></tr> <tr><td>7.98</td><td>36</td><td>31-0553</td><td>1</td><td>.080</td></tr> <tr><td>13.3</td><td>48</td><td>31-0557</td><td>2</td><td>.100</td></tr> </tbody> </table>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	1.85	18	31-0532	1	.080	5.19	30	31-0552	1	.080	7.98	36	31-0553	1	.080	13.3	48	31-0557	2	.100	R2-1 LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> </thead> <tbody> <tr><td>5.00</td><td>24X30</td><td>31-5505</td><td>1</td><td>.080</td></tr> <tr><td>7.50</td><td>30X36</td><td>31-5504</td><td>1</td><td>.080</td></tr> <tr><td>12.00</td><td>36X48</td><td>31-5506</td><td>2</td><td>.100</td></tr> <tr><td>20.00</td><td>48X60</td><td>31-5507</td><td>2</td><td>.100</td></tr> </tbody> </table>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-5505	1	.080	7.50	30X36	31-5504	1	.080	12.00	36X48	31-5506	2	.100	20.00	48X60	31-5507	2	.100	R3-1 LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> </thead> <tbody> <tr><td>4.00</td><td>24X24</td><td>31-1604</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36X36</td><td>31-1627</td><td>2</td><td>.080</td></tr> </tbody> </table>		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. 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THK.	7.50	30X36	31-0852	1	.080	R10-15 LEGEND AND SYMBOLS - BLACK YIELD SYMBOL - RED BACKGROUND; TOP - FLUORESCENT YELLOW-GREEN BOTTOM - WHITE 31-1626 31-1625 <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> </thead> <tbody> <tr><td>6.25</td><td>30X30</td><td></td><td>1</td><td>.080</td></tr> </tbody> </table>		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30X30		1	.080	NOTES: 1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R - SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z". 2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERCTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS. 3. POSTS - SEE STANDARD SHEET TR-1208-02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS." 4. POSTS SHALL BE 4 LBS./FT. 5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED. 6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114-01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."					RETROREFLECTIVE STRIP LEGEND - N/A BACKGROUND - RED <table border="1"> <thead> <tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th><th>ALUM. THK.</th></tr> </thead> <tbody> <tr><td>1.00</td><td>4X48</td><td>31-5003</td><td>1</td><td>.080</td></tr> <tr><td>2.00</td><td>4X72</td><td>31-5004</td><td>1</td><td>.080</td></tr> </tbody> </table>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	1.00	4X48	31-5003	1	.080	2.00	4X72	31-5004	1	.080
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3.00	36X12	31-1188	1	.080																																																																																																																																																																																																																																							
6.75	54X18	31-1189	2	.100																																																																																																																																																																																																																																							
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12.00	48X36	31-0670	2	.100																																																																																																																																																																																																																																							
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2.25	18X18	31-1705	1	.080																																																																																																																																																																																																																																							
4.00	24X24	31-1769	1	.080																																																																																																																																																																																																																																							
6.25	30X30	31-1770	1	.080																																																																																																																																																																																																																																							
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9.00	36X36	31-0816	2	.080																																																																																																																																																																																																																																							
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5.00	24X30	31-1915	1	.080																																																																																																																																																																																																																																							
20.00	48X60	31-1918	2	.100																																																																																																																																																																																																																																							
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3.00	36X12	31-1177	1	.080																																																																																																																																																																																																																																							
6.75	54X18	31-1178	2	.100																																																																																																																																																																																																																																							
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: CCJ CHECKED BY: PMB NOT TO SCALE	CITY OF BRISTOL Filename: ...TR_MSH_TRA-02_017_04104.dgn	SIGNATURE/BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF THE BRIDGE NO.04104 DOWNS STREET OVER PEQUABUCK RIVER	TOWN: BRISTOL	PROJECT NO. 017-04104 DRAWING NO. TRA-02 SHEET NO.
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/20/2024

D1 - SERIES	D3 - SERIES	D4 - SERIES		D5 - SERIES	D7 - SERIES	D9 - SERIES	D10 - SERIES	RECREATIONAL RS- SERIES	E5 - SERIES	I - SERIES	INCIDENT MANAGEMENT
D1-1 51-5202 Variable → D1-2 51-5203 Variable →	D3-1 Variable Road Name	D4-2 	D4-2 	D5-2b 	D-7 51-6802 Variable → 51-6803 Variable →	D9-2 	D10-4 	RS-054 	E5-1a 	I-3 (Variable) River	
VARIABLE LEGEND & ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE EXIT NUMBER AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	W or W/O ARROW VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	** FOR ARROW SUBPLATES USE M5 & M6 SERIES AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	CARDINAL DIRECTION, SHIELD AND NUMERALS ARE VARIABLE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	FOR USE AT "NO NUMBERED" EXITS AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE: RIVER, BROOK, CREEK AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	CARDINAL DIRECTION VARIABLE - N, S, E, W AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	
5.00 60X12 51-5202 2 .100 10.00 60X24 51-5203 2 .100	6.00 48X18 51-2004 2 .100 9.00 72X18 51-2002 2 .125 10.50 84X18 51-2003 2 .125	5.00 24X30 51-6006 1 .080 7.50 30X36 51-6007 1 .080	38.50 84X66 51-2082 3 .125	42.25 78X78 51-6901 2 .125	4.17 60X12 51-6802 2 .100 8.33 60X24 51-6803 2 .100	4.00 24X24 51-6788 1 .080	6.75 18X54 51-5307 1 .080	4.00 24X24 51-6873 1 .080	30.00 72X60 51-6150 2 .125 4.50 36X18 51-2007 2 .080 12.00 48X36 51-2051 2 .100	3.00 12X36 51-5103 1 .080 4.00 12X48 51-5104 1 .080 5.00 12X60 51-5105 1 .080	
		D4-2 	D4-2 	D4-2 		51-6705 DIESEL → 51-6706 FOOD → 51-6708 GAS → 51-6709 LODGING →		RS-117 	E5-1a 	(Town Name) (INCORPORATED) (DATE) TOWN LINE	
		VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE EXIT NUMBER AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.		AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE: TOWN / CITY AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	SYMBOL - WHITE BACKGROUND - BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.
		5.00 24X30 51-6033 1 .080 7.50 30X36 51-6034 1 .080	38.50 84X66 51-2095 3 .125	39.00 72X78 51-6158 2 .125	2.25 36X9 2 .080			4.00 24X24 51-7872 1 .080	32.50 78X60 2 .125	7.50 40X27 51-2020 2 .080	3.00 18X24 51-5943 1 .080
		D4-2 	D4-2 			51-5405 STATE POLICE → 51-6714 CAMPING → 51-6960 INFO →			E5-1a 	I-7 	51-6504 Variable 51-6505 Variable
		VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE EXIT NUMBER AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.		VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	VARIABLE ARROW DIRECTION AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.		AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	TO BE SUBMOUNTED W/ 51-5943 LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.
		5.00 24X30 51-6044 1 .080 7.50 30X36 51-6045 1 .080	38.50 84X66 51-2097 3 .125		2.25 36X9 2 .080			2.19 21X15 51-2705 .080 2.19 21X15 51-2706 .080	45.00 108X60 2 .125	4.00 24X24 51-1448 1 .080 6.25 30X30 51-1445 1 .080	0.75 18X6 51-6504 .080 1.50 18X12 51-6505 .080
			D4-2 						E5-1a 	PARKING AREA PATROLLED	
			VARIABLE EXIT NUMBER AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.						AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	
			38.50 84X66 51-2099 3 .125						57.50 138X60 2 .125	7.50 36X30 51-5937 2 .080	

M1 - SERIES	M2 - SERIES	M3 - SERIES		M4 - SERIES	M5 - SERIES	M6 - SERIES	
M1-1 51-6662 51-6666 VARIABLE: 1 or 2 DIGITS	M2-1 JCT	M3-1 NORTH	M3-4 WEST	M4-5 TO	M5-1 	M6-1 L or R	M6-4
LEGEND - WHITE BACKGROUND - RED & BLUE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.
3.20 24X24 51-6662 1 .080 3.99 30X24 51-6663 1 .080 7.20 36X36 51-6666 2 .080 8.99 45X36 51-6667 2 .100	2.19 21X15 51-6640 (1) .080 2.19 21X15 51-6610 (2) .080	2.00 24X12 51-6651 (1) .080 2.00 24X12 51-6611 (2) .080 4.50 36X18 51-6655 (1) .080 4.50 36X18 51-6625 (2) .080	2.00 24X12 51-6654 (1) .080 2.00 24X12 51-6614 (2) .080 4.50 36X18 51-6658 (1) .080 4.50 36X18 51-6628 (2) .080	2.00 24X12 51-6650 (1) .080 2.00 24X12 51-6620 (2) .080	2.19 21X15 51-2690 (1) .080 2.19 21X15 51-2691 (1) .080 2.19 21X15 51-2630 (2) .080 2.19 21X15 51-2631 (2) .080	2.19 21X15 51-2686 (1) .080 2.19 21X15 51-2626 (2) .080 2.19 21X15 51-2627 (2) .080	2.19 21X15 51-2687 (1) .080 2.19 21X15 51-2627 (2) .080
M1-4 51-6615 51-6635 VARIABLE: 1 or 2 DIGITS		M3-2 EAST			M5-2 	M6-2 	
LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.		AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.			AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	
4.00 24X24 51-6615 1 .080 5.00 30X24 51-6644 1 .080 9.00 36X36 51-6635 2 .080 11.25 45X36 51-6645 2 .100		2.00 24X12 51-6652 (1) .080 2.00 24X12 51-6612 (2) .080 4.50 36X18 51-6656 (1) .080 4.50 36X18 51-6626 (2) .080			2.19 21X15 51-2692 (1) .080 2.19 21X15 51-2693 (1) .080 2.19 21X15 51-2632 (2) .080 2.19 21X15 51-2633 (2) .080	2.19 21X15 51-2688 (1) .080 2.19 21X15 51-2689 (1) .080 2.19 21X15 51-2628 (2) .080 2.19 21X15 51-2629 (2) .080	
M1-5 51-6616 51-6636 VARIABLE: 1 or 2 DIGITS		M3-3 SOUTH				M6-3 	
LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.		AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.				AREA (SQ. FT) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.	
4.00 24X24 51-6616 1 .080 5.00 30X24 51-6647 1 .080 9.00 36X36 51-6636 2 .080 11.25 45X36 51-6646 2 .100		2.00 24X12 51-6653 (1) .080 2.00 24X12 51-6613 (2) .080 4.50 36X18 51-6657 (1) .080 4.50 36X18 51-6627 (2) .080				2.19 21X15 51-2685 (1) .080 2.19 21X15 51-2625 (2) .080	

NOTES:

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- POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
- POSTS SHALL BE 4 LBS./FT.
- SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
D7, RS BACKGROUND-BROWN, LEGEND-WHITE
D9 BACKGROUND-BLUE, LEGEND-WHITE
ALL OTHER D-SERIES AS NOTED

E - SERIES
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)
M2 - M6 SERIES
(1) BACKGROUND-BLUE, LEGEND-WHITE
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL SIGNS TO USE TYPE XI RETROREFLECTIVE SHEETING WITH THE EXCEPTION OF SIDE MOUNTED SIGNS WITH WHITE BACKGROUND WHICH SHALL BE TYPE IX RETROREFLECTIVE SHEETING.

SEMI FINAL DESIGN REVIEW

PROJECT NO. 017-04104	TOWN: BRISTOL
DRAWING NO. TRA-04	DRAWING TITLE: SIGN FACE SHEET ALUMINUM D,RS,E,I,&M SERIES TYPICAL SIGN DETAILS
SHEET NO.	

DESIGNER/DRAFTER: CCJ	 CITY OF BRISTOL	SIGNATURE/ BLOCK: GM2 ASSOCIATES, INC. 115 GLASTONBURY BLVD. GLASTONBURY, CT 06033	PROJECT TITLE: REPLACEMENT OF THE BRIDGE NO.04104 OVER PEQUABUCK RIVER
CHECKED BY: PMB		NOT TO SCALE	FILENAME: ...TR.MSH.TRA-04.017-04104.dgn
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 12/19/2022			