04 - STRUCTURES
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
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S-02	GENERAL PLAN AND NOTES	S-11	STRUCTURE RELATED ELECTRICAL DETAILS
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S-04	BRIDGE NO. 03191F DEMOLITION PLAN 1	S-13	EMBANKMENT WALL (SITE NO. 1)
S-05	BRIDGE NO. 03191F DEMOLITION PLAN 2		
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S-07	F-SHAPE PARAPET - DETAILS		
S-08	F-SHAPE PARAPET - REINFORCEMENT		
S-09	CHAIN LINK FENCE DETAILS		

DESIGNED BY:
BL COMPANIES

BL Companies

BL COMPANIES, INC.
100 CONSTITUTION PLAZA, 10TH FLOOR
HARTFORD, CT 06103

STATE OF CONNECTICUT
MICHAEL P. WOODS
No. 30950
LICENSED PROFESSIONAL ENGINEER

Michael Woods
2025.08.22
13:33:41-04'00'

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

DESIGNER/DRAFTER: TEY CHECKED BY: MEA

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

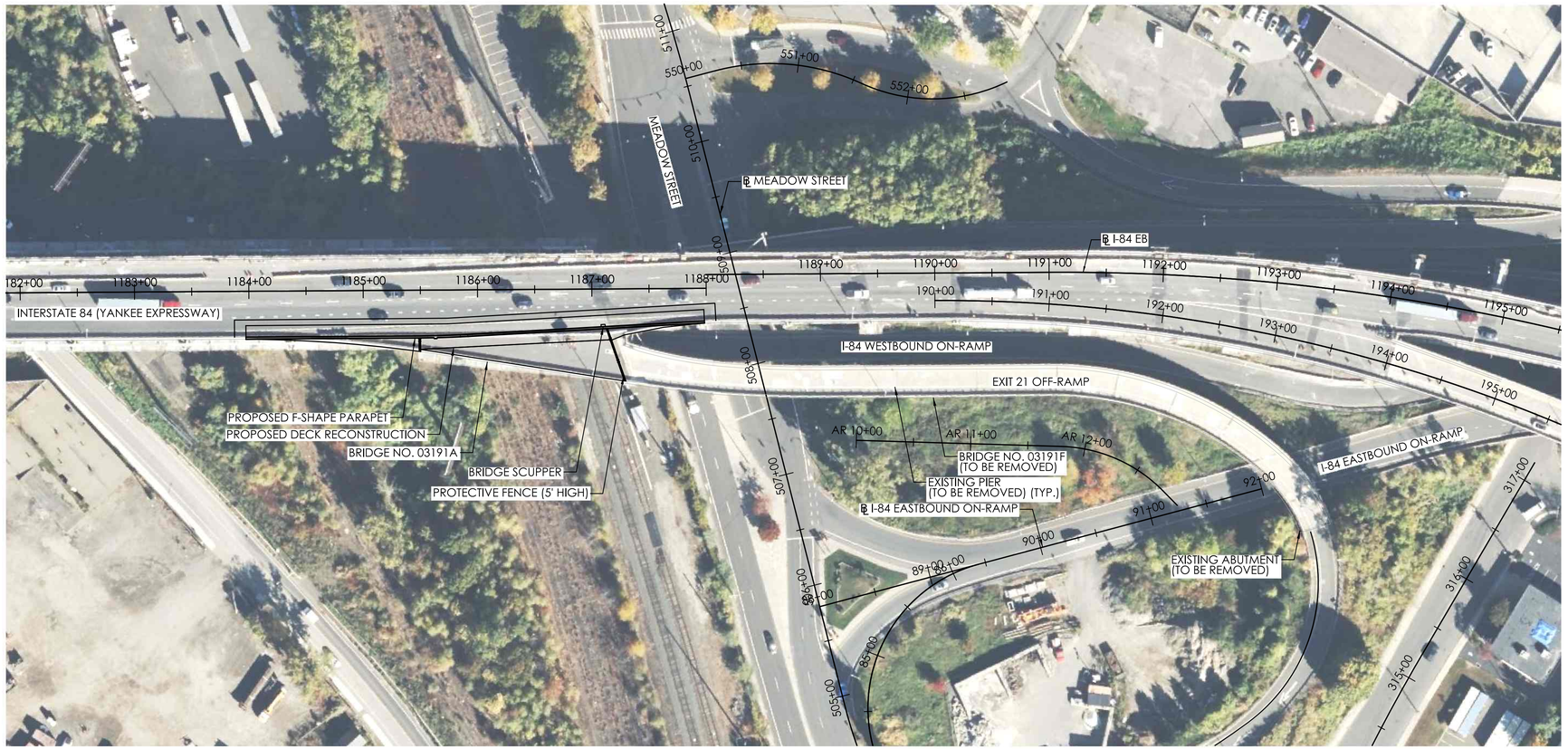
DRAWING TITLE: INDEX OF DRAWINGS - STRUCTURES

PROJECT NO.: 0151-0340

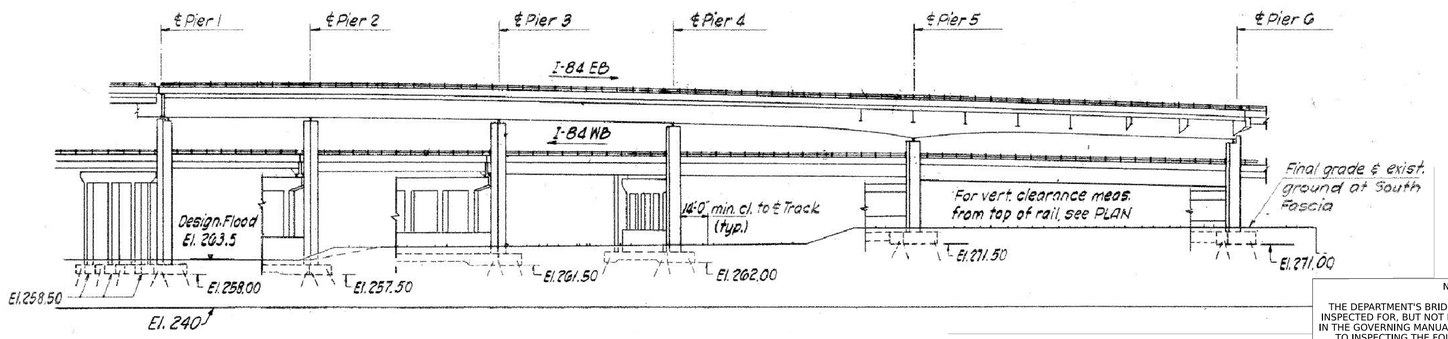
DRAWING NO.: S-01

SHEET NO.: 04.01

LASTED SAVED BY: mwoods **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151_0340_INX-04.dgn
PLOTTED DATE: 8/18/2025



GENERAL PLAN
SCALE: 1"=40'



EXISTING BRIDGE NO. 03191A ELEVATION
SCALE: NOT TO SCALE

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 MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENETS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSRUDED TO REDUCE THE IMPORTANCE OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THE STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
NONE	N/A

GENERAL NOTES

1. SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 (2024), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2025, AND SPECIAL PROVISIONS.
2. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (TENTH EDITION - 2024), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE AND ROADWAY STRUCTURES DESIGN MANUAL (2025).
3. MATERIAL STRENGTHS:

   CONCRETE:
   CLASS PCC 04462 ..... f'_c = 4,000 PSI
   CLASS PCC 05562 ..... f'_c = 5,000 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 75 ..... f_y = 75,000 PSI
4. LIVE LOAD: TBD
5. FUTURE PAVING ALLOWANCE: NONE
6. BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE HMA S0.25 TRAFFIC LEVEL 2 (1" THICK) AND THE SECOND SHALL BE PMA S0.375 TRAFFIC LEVEL 3 (1.5" THICK).
7. DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
8. 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.
9. UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION: CTDOT ILLUMINATION. THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.
9. MASH TEST LEVEL: THE F-SHAPE PARAPET MEETS THE TL-4 CRITERIA FOR MASH 2016.

CONCRETE NOTES

1. REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.
2. THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
BRIDGE DECK CONCRETE	BRIDGE DECK, CONCRETE CURB	CLASS PCC05562
PARAPET CONCRETE	F-SHAPE PARAPET	CLASS PCC04462

3. EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.
4. CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.
5. 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. HEADED REINFORCEMENT SHALL CONFORM TO ASTM A970, CLASS HA. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."
6. PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES."
7. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

ADHESIVE BONDED ANCHOR NOTES

1. THE COMPRESSIVE STRENGTH OF THE EXISTING CONCRETE IN THE DESIGN OF ADHESIVE BONDED ANCHORS WAS 3.0 KSI.
2. THE REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 AND BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS.
3. WHEN DRILLING HOLES, IF EXISTING REINFORCEMENT IS ENCOUNTERED, RELOCATE HOLE MAINTAINING REQUIRED CONCRETE COVER, THE USE OF CORE DRILLING THROUGH THE EXISTING REINFORCEMENT IS NOT PERMITTED.
4. THE ANCHORS SHALL BE FIELD TESTED UNDER A PROOF TEST LOAD TO VERIFY THE INSTALLATION PROCEDURES AND INSTALLED ADHESIVE BONDED ANCHOR STRENGTH. THE FOLLOWING TABLE DETAILS THE MINIMUM NUMBER OF ANCHORS AT EACH LOCATION TO BE FIELD TESTED TO THE TABULATED PROOF LOAD:

LOCATION	ANCHOR DESCRIPTION	MIN. NUMBER OF ANCHORS TO BE TESTED	PROOF TEST LOAD (KIPS)
CONCRETE CURB	#4 REBAR ANCHOR EMBEDDED 6"	0	N/A

   UNLESS OTHERWISE SPECIFIED, THE ENGINEER SHALL RANDOMLY SELECT THE ANCHORS TO BE TESTED.
5. THE WORK TO FURNISH THE ANCHORS AND ADHESIVE BONDING MATERIAL, DRILLING HOLES, INSTALL ANCHORS, AND INSPECT AND TEST THE ANCHORS SHALL BE PAID FOR UNDER THE ITEM "DRILLING HOLES AND BONDING ANCHORS."

REV.	DATE	REVISION DESCRIPTION

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100 Constitution Plaza
10th Floor
Hartford, CT 06103
DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

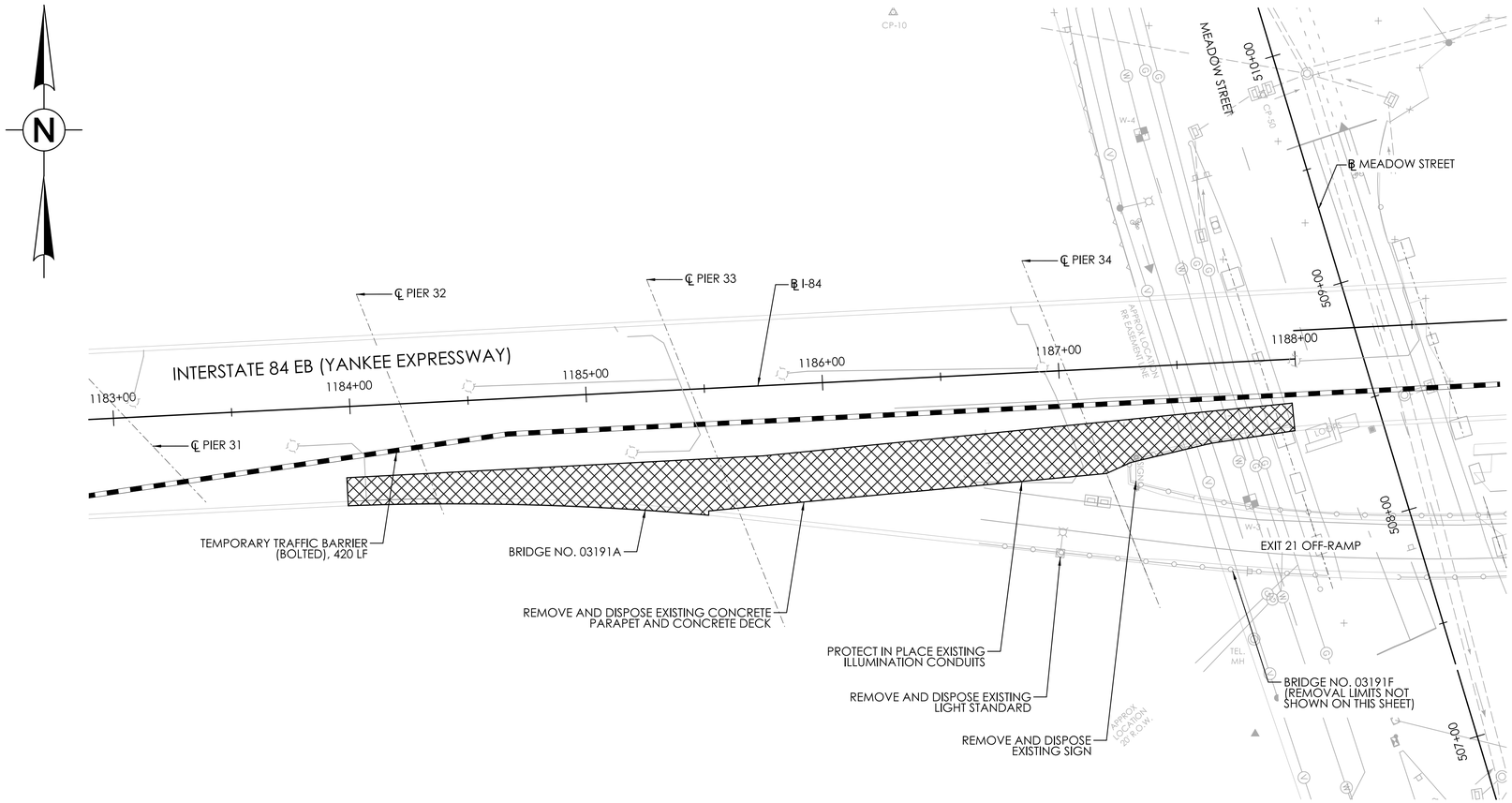
DRAWING TITLE: GENERAL PLAN AND NOTES

PROJECT NO.: 0151-0340

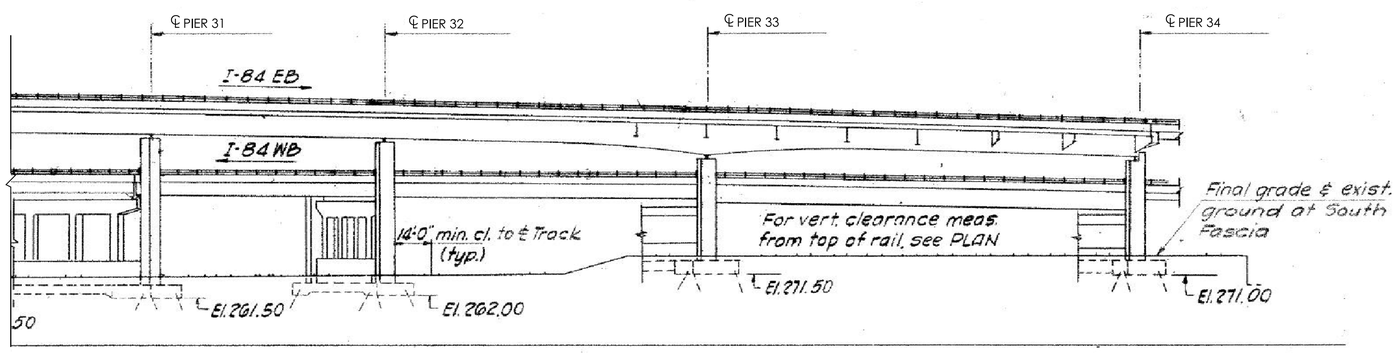
DRAWING NO.: S-02

SHEET NO.: 04.02

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-02.dgn
PLOTTED DATE: 7/8/2025



PLAN
SCALE: 1"=30'



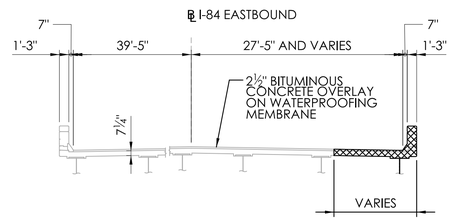
ELEVATION
SCALE: NOT TO SCALE

NOTES:

1. LOCATION OF BEAMS SHOWN BASED ON RECORD PLANS AND WERE NOT SURVEYED IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING COMPONENTS AND IDENTIFYING POTENTIAL CONFLICTS.
2. THE SEQUENCE OF CONSTRUCTION SHOWN, INCLUDING STAGING AREAS FOR CRANES AND MATERIALS, ARE SUGGESTIONS BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE ACTUAL MEANS AND METHODS OF DEMOLITION AND PREPARE AND SUBMIT WORKING DRAWINGS TO THE ENGINEER FOR REVIEW.
3. A DEBRIS SHIELD SHALL BE PROVIDED TO PROTECT ADJACENT TRAFFIC FROM CONSTRUCTION ACTIVITIES AND DEBRIS. EXTENT OF DEBRIS SHIELD MAY VARY DEPENDING ON CONTRACTOR MEANS AND METHODS.
4. FOR EASE OF CONSTRUCTION AND INSPECTION, IT IS ANTICIPATED THAT THE RAMP WILL BE REMOVED AFTER THE PROPOSED PARAPET AND DECK WORK IS PERFORMED.
5. DURING ALL DEMOLITION WORK, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES TO REMAIN.
6. SEE TRAFFIC PLANS FOR ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS AND REQUIREMENTS.
7. EXISTING REINFORCEMENT IN DECK TO REMAIN. CONTRACTOR TO CLEAN AND APPLY NEW ZINC-RICH PAINT PROTECTIVE COATING BEFORE INSTALLING NEW BAR. CLEANING AND APPLYING PROTECTIVE COATING SHALL BE PAID FOR UNDER THE ITEM "BRIDGE DECK CONCRETE".
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK ABOVE THE RAILROAD RIGHT-OF-WAY WITH THE METRO NORTH.
9. REMOVAL OF BRIDGE DECK CONCRETE AND PARAPETS FOR THE NEW PARAPET CONSTRUCTION AND AS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE".
10. LOCATION OF ILLUMINATION CONDUITS SHOWN ARE APPROXIMATE AND BASED ON RECORD PLANS AND WERE NOT SUVEYED IN THE FIELD.

ANTICIPATED SEQUENCE OF CONSTRUCTION:

1. INSTALL TEMPORARY TRAFFIC CONTROL MEASURES TO ALLOW FOR PAVEMENT AND DECK REMOVAL, EXCLUSIVE OF TEMPORARY BARRIER.
2. REMOVE BRIDGE PAVEMENT TO LIMITS SHOWN.
3. INSTALL TEMPORARY TRAFFIC BARRIER (BOLTED).
4. INSTALL TEMPORARY DEBRIS SHIELD.
5. REMOVE EXISTING DECK AND PARAPET TO LIMITS SHOWN.
6. INSTALL NEW CONCRETE DECK, CONCRETE PARAPET, CONCRETE CURB AND FENCE.
7. REMOVE TEMPORARY DEBRIS SHIELD AND TEMPORARY TRAFFIC BARRIER (BOLTED).
8. APPLY NEW MEMBRANE WATERPROOFING ON DECK AND PAVE.
9. REMOVE REMAINING TRAFFIC CONTROL DEVICES.



EXSTING TYPICAL SECTION
SCALE: NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION

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DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

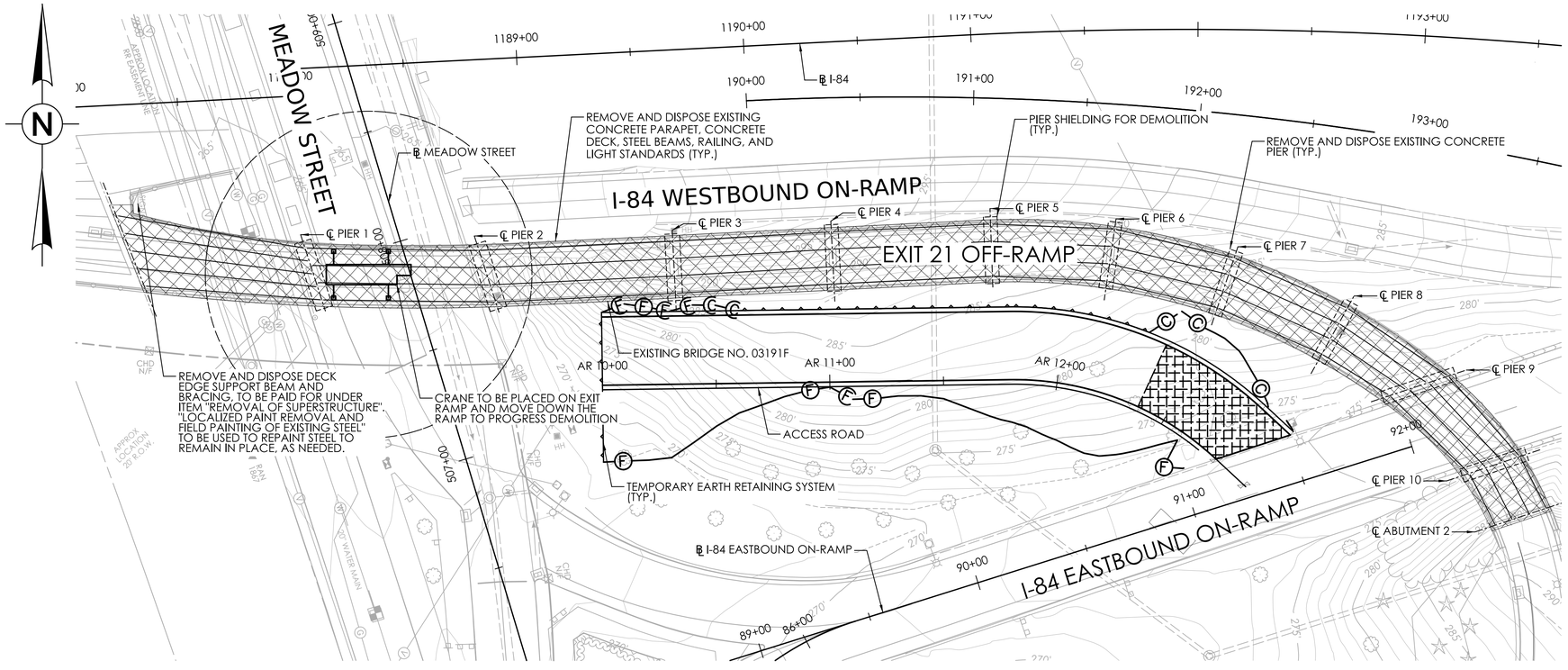
DRAWING TITLE: **BRIDGE NO. 03191A DEMOLITION PLAN**

PROJECT NO.: **0151-0340**

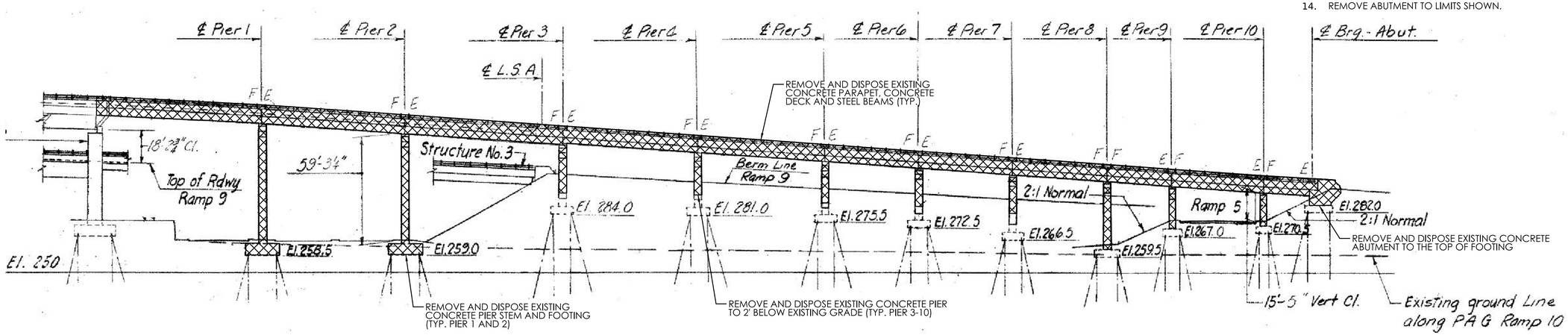
DRAWING NO.: **S-03**

SHEET NO.: 04.03

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-03.dgn
PLOTTED DATE: 7/8/2025



PLAN
SCALE: 1"=30'



ELEVATION
SCALE: NOT TO SCALE

NOTES:

1. LOCATION OF BEAMS SHOWN BASED ON RECORD PLANS AND WERE NOT SURVEYED IN THE FIELD.
2. THE SEQUENCE OF CONSTRUCTION SHOWN, INCLUDING STAGING AREAS FOR CRANES AND MATERIALS, ARE SUGGESTIONS BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE ACTUAL MEANS AND METHODS OF DEMOLITION AND PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW, WORKING DRAWINGS.
3. A DEBRIS SHIELD SHALL BE PROVIDED TO PROTECT ADJACENT TRAFFIC FROM CONSTRUCTION ACTIVITIES AND DEBRIS. EXTENT OF DEBRIS SHIELD MAY VARY DEPENDING ON CONTRACTOR MEANS AND METHODS. THE DEBRIS SHIELD IS TO BE PAID FOR UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE" AND "REMOVAL OF EXISTING MASONRY." DEBRIS SHIELD SHOULD NOT REDUCE VERTICAL CLEARANCE OVER ROADWAY MORE THAN EXISTING CONDITIONS OR 16'-3".
4. DURING ALL DEMOLITION WORK, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES TO REMAIN.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE EXISTING EXIT RAMP CAN CARRY THE PROPOSED CRANE AND ANY OTHER CONSTRUCTION LOADS. CALCULATIONS SHOULD BE SUBMITTED WITH THE WORKING DRAWINGS FOR THE REMOVAL OF SUPERSTRUCTURE.
6. SEE TRAFFIC PLANS AND SPECIAL PROVISIONS FOR ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS AND REQUIREMENTS.
7. EXISTING PIERS 1 THROUGH 10 TO BE REMOVED AS SHOWN IN THE ELEVATION VIEW. EXISTING ABUTMENT AND WINGWALLS TO BE REMOVED IN THEIR ENTIRETY, EXCLUSIVE OF PILES.
8. REMOVAL OF BRIDGE NO. 03191F SUPERSTRUCTURE TO BE PAID FOR UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE". REMOVAL OF PIERS AND ABUTMENTS TO BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY".
9. SEE HIGHWAYS SUBSET FOR TEMPORARY ACCESS ROAD DETAILS.

ANTICIPATED SEQUENCE OF CONSTRUCTION:

1. SET UP APPROPRIATE TEMPORARY TRAFFIC CONTROL MEASURES.
2. INSTALL TEMPORARY DEBRIS SHIELD AS REQUIRED FOR SUPERSTRUCTURE REMOVAL.
3. PLACE CRANE ON SPAN 2 OF BRIDGE NO. 03191F FOR REMOVAL OF SPAN 1.
4. REMOVE SPAN 1.
5. RELOCATE CRANE TO SPAN 3 FOR REMOVAL OF SPAN 2.
6. REPEAT STEP 5 FOR ALL REMAINING SPANS.
7. INSTALL DEBRIS SHIELDING FOR PIER REMOVAL.
8. SET UP APPROPRIATE TEMPORARY TRAFFIC CONTROL FOR REMOVAL OF PIER 1.
9. RELOCATE CRANE AND REMOVE PIER 1.
10. ADJUST TEMPORARY TRAFFIC CONTROL MEASURES FOR REMOVAL OF PIER 2.
11. RELOCATE CRANE AND REMOVE PIER 2.
12. REMOVE PIER 3 THROUGH 9 FROM TEMPORARY ACCESS ROAD.
13. REMOVE PIER 10 DURING ALLOWABLE TIMES WHILE I-84 EASTBOUND ON-RAMP TRAVEL LANES CAN BE CLOSED.
14. REMOVE ABUTMENT TO LIMITS SHOWN.

REV.	DATE	REVISION DESCRIPTION

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100 Constitution Plaza
9th Floor
Hartford, CT 06103

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SCALE AS NOTED

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

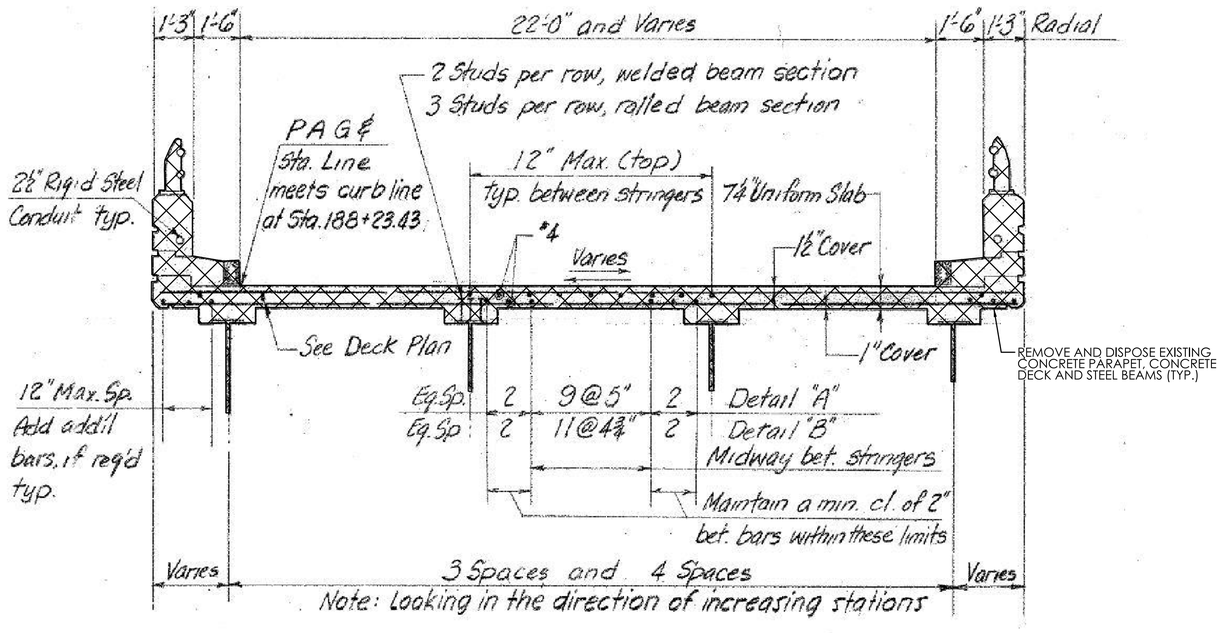
DRAWING TITLE: BRIDGE NO. 03191F DEMOLITION PLAN 1

PROJECT NO.: 0151-0340

DRAWING NO.: S-04

SHEET NO.: 04.04

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-04.dgn
PLOTTED DATE: 8/18/2025



TYPICAL SECTION
SCALE: NOT TO SCALE

NOTES:

1. LOCATION OF BEAMS SHOWN BASED ON RECORD PLANS AND WERE NOT SURVEYED IN THE FIELD.
2. THE SEQUENCE OF CONSTRUCTION SHOWN, INCLUDING STAGING AREAS FOR CRANES AND MATERIALS, ARE SUGGESTIONS BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE ACTUAL MEANS AND METHODS OF DEMOLITION AND PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW, WORKING DRAWINGS.
3. A DEBRIS SHIELD SHALL BE PROVIDED TO PROTECT ADJACENT TRAFFIC FROM CONSTRUCTION ACTIVITIES AND DEBRIS. EXTENT OF DEBRIS SHIELD MAY VARY DEPENDING ON CONTRACTOR MEANS AND METHODS.
4. DURING ALL DEMOLITION WORK, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES TO REMAIN.
5. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE EXISTING EXIT RAMP CAN CARRY THE PROPOSED CRANE AND ANY OTHER CONSTRUCTION LOADS. CALCULATIONS SHOULD BE SUBMITTED WITH THE WORKING DRAWINGS FOR THE REMOVAL OF SUPERSTRUCTURE.
6. SEE TRAFFIC PLANS FOR ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS AND REQUIREMENTS.
7. SEE BRIDGE NO. 03191F DEMOLITION PLAN 1 SHEET FOR ANTICIPATED SEQUENCE OF CONSTRUCTION.

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CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S):
WATERBURY

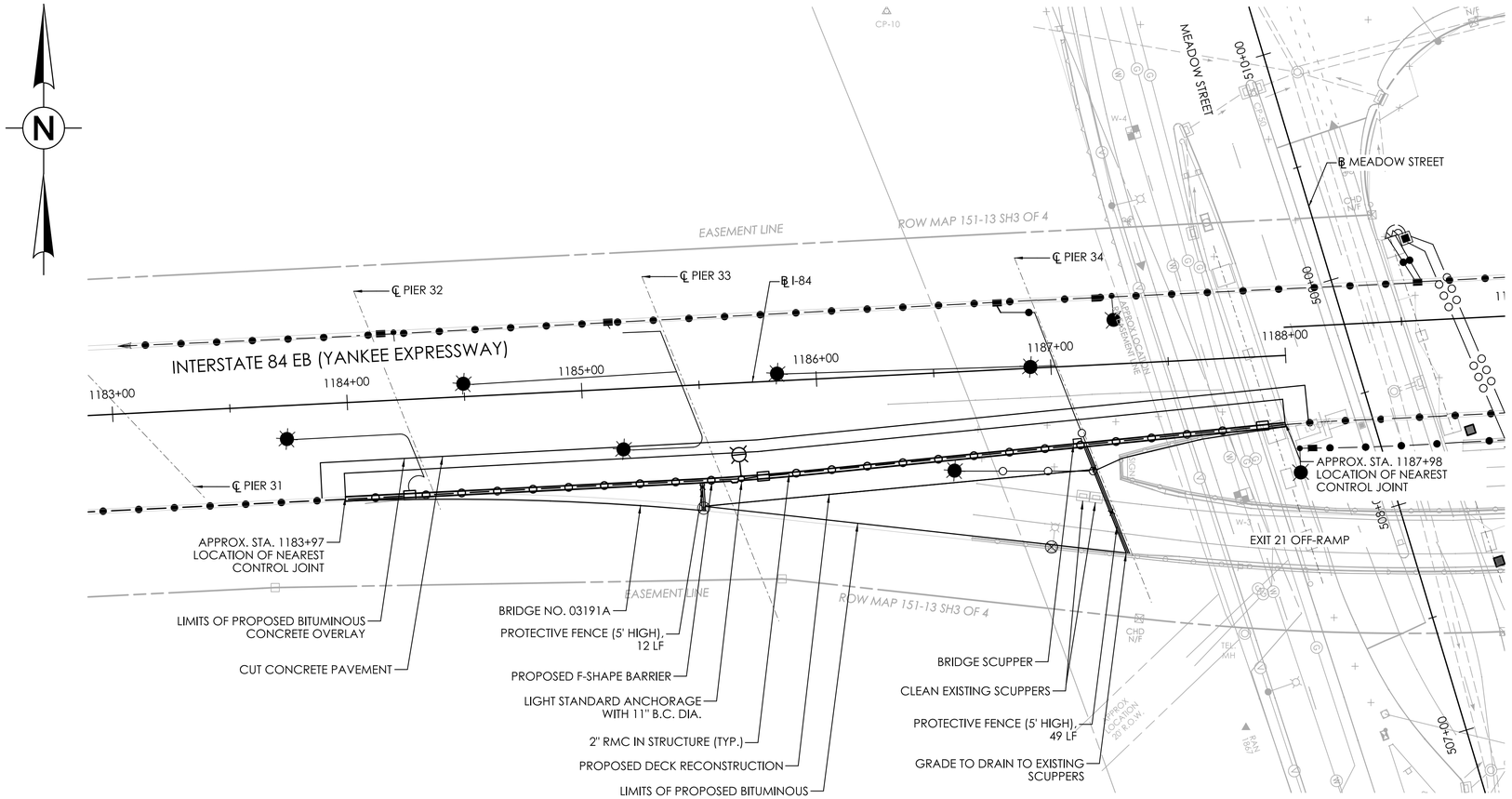
DRAWING TITLE:
BRIDGE NO.03191F DEMOLITION PLAN 2

PROJECT NO.:
0151-0340

DRAWING NO.:
S-05

SHEET NO.:
04.05

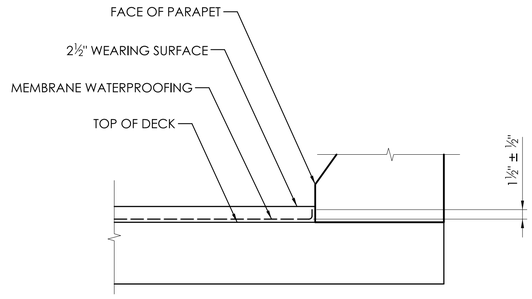
LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-05.dgn
PLOTTED DATE: 7/8/2025



PLAN
SCALE: 1"=30'

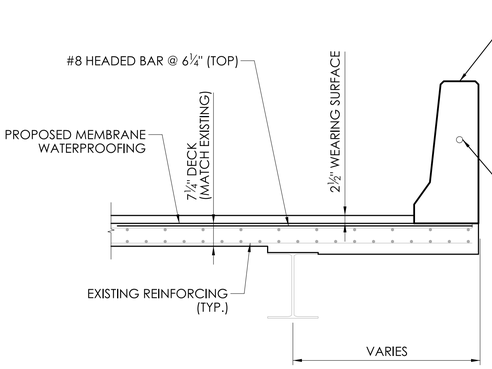
NOTES:

1. BRIDGE DECK CONCRETE SHALL BE USED THROUGHOUT THE ENTIRE DECK.
2. PARAPET CONCRETE SHALL BE USED FOR THE PARAPETS.
3. ALL REINFORCEMENT IN THE CONCRETE DECK AND PARAPETS SHALL BE GALVANIZED AND SHALL BE PAID FOR THE IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED".
4. REMOVE EXISTING LONGITUDINAL BARS, LEAVING ENOUGH PROTRUDING AT THE ENDS OF DECK REMOVAL TO LAP NEW BARS TO. LAP NEW BARS TO EACH EXISTING LONGITUDINAL BAR.
5. CLEANING EXISTING BRIDGE SCUPPERS SHALL BE PAID FOR IN THE ITEM "CLEAN DRAINAGE SYSTEM".
6. FOR ELECTRICAL AND ILLUMINATION INFORMATION, SEE SUBSET NO. 08.

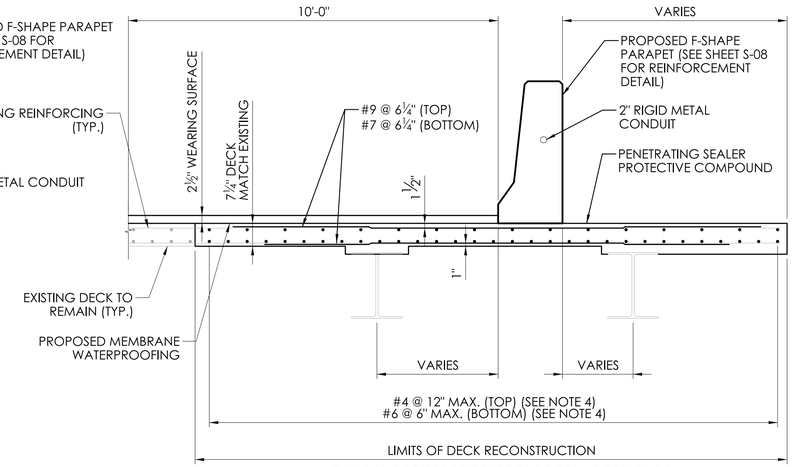


MEMBRANE WATERPROOFING AT GUTTER
SCALE: SCALE: 1" = 1'-0"

DECK REINFORCEMENT LAP LENGTHS	
BAR SIZE	MINIMUM LAP LENGTH
#4	1'-11"
#6	2'-9"
#7	3'-2"
#9	4'-4"



TYPICAL DECK SECTION AT EDGE
SCALE: SCALE: ½" = 1'-0"



TYPICAL DECK SECTION AT PROPOSED DECK EDGE
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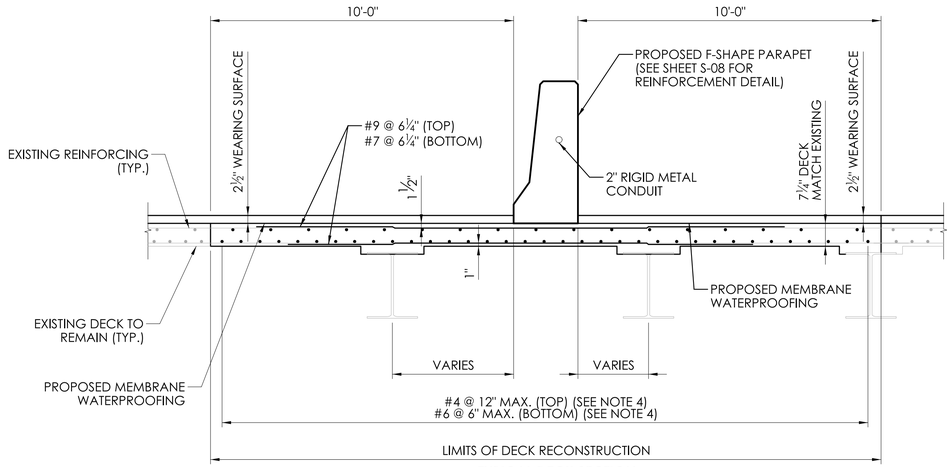

TYPICAL DECK SECTION
SCALE: ½" = 1'-0"

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **BRIDGE NO. 03191A DECK PLAN**

PROJECT NO.: **0151-0340**

DRAWING NO.: **S-06**

SHEET NO.: 04.06

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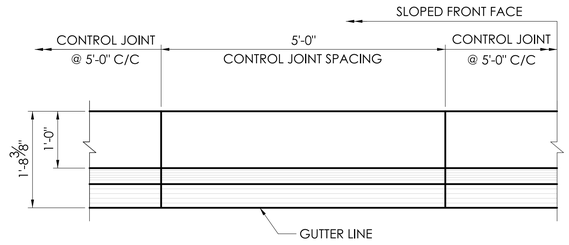
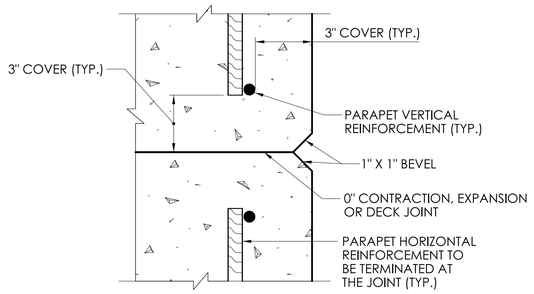
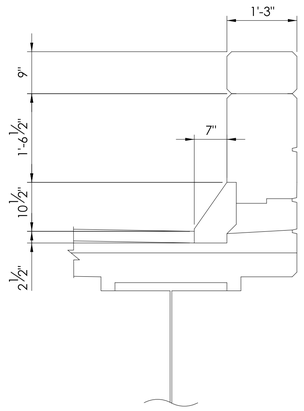
PLOTTED DATE: 7/9/2025



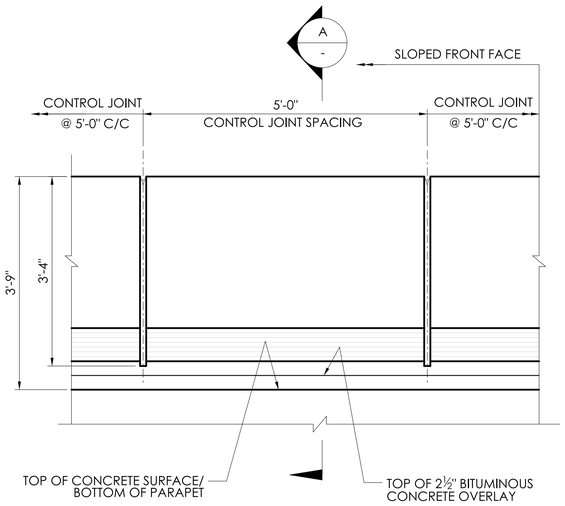
PARTIAL PLAN
SCALE: ¾" = 1'-0"



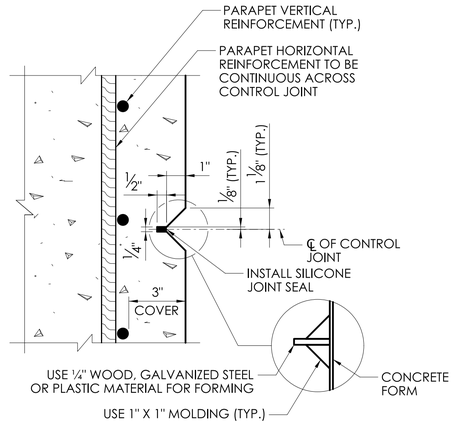
PLAN SECTION - PARAPET JOINT DETAIL
SCALE: N.T.S.



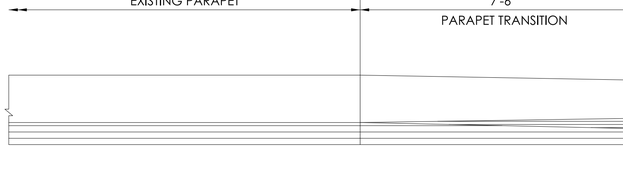
SECTION - EXISTING PARAPET TRANSITION DETAIL
SCALE: ¾" = 1'-0"



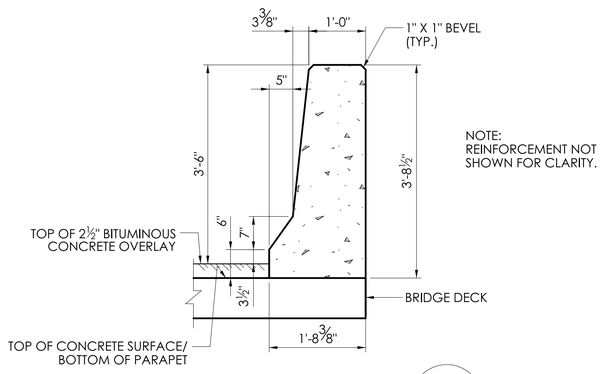
PARTIAL ELEVATION
SCALE: ¾" = 1'-0"



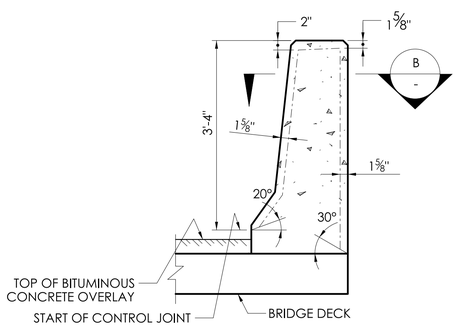
PLAN SECTION - CONTROL JOINT DETAIL
B
-
SCALE: N.T.S.



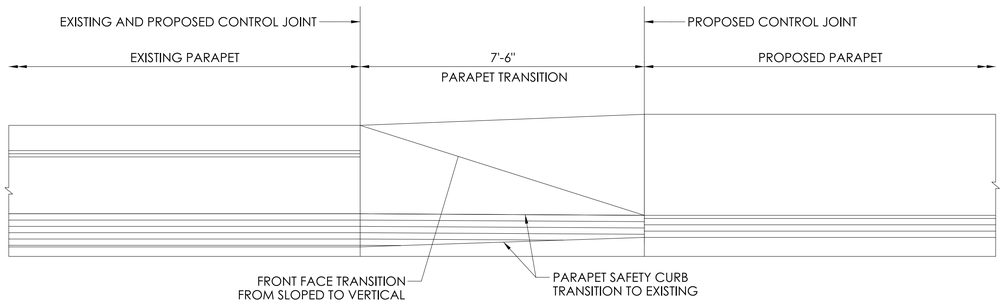
PARAPET TRANSITION - PLAN
SCALE: ¾" = 1'-0"



SECTION - F-SHAPED PARAPET
A
-
SCALE: ¾" = 1'-0"



SECTION - PARAPET CONTROL JOINT DETAIL
SCALE: ¾" = 1'-0"



PARAPET TRANSITION - ELEVATION
SCALE: ¾" = 1'-0"

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK:
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

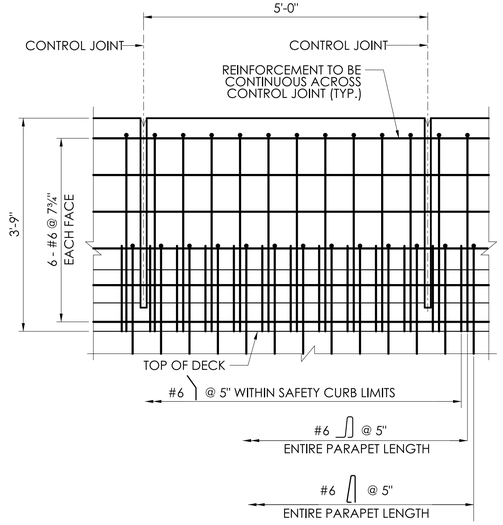
DRAWING TITLE: **F-SHAPED PARAPET - DETAILS**

PROJECT NO.: **0151-0340**

DRAWING NO.: **S-07**

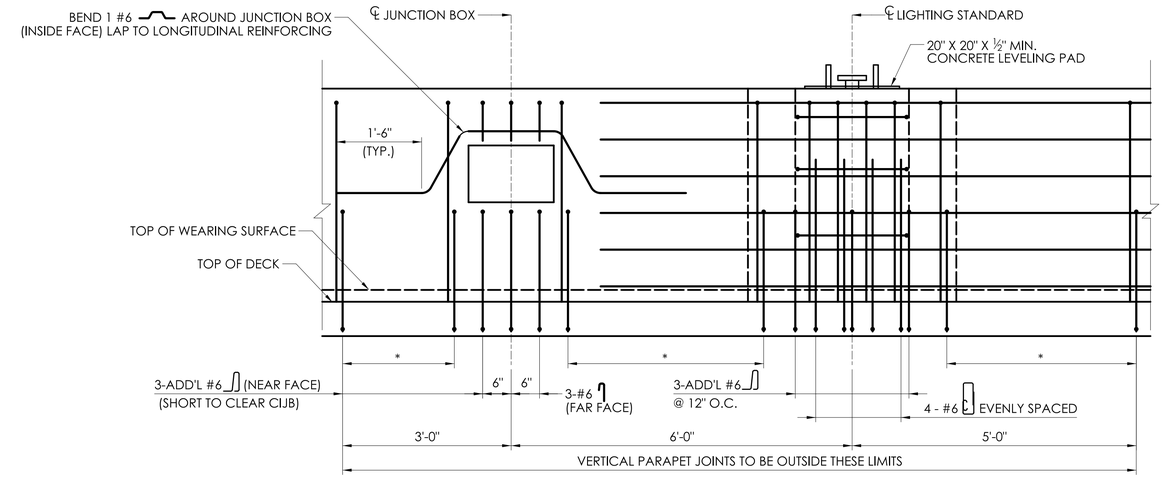
SHEET NO.: 04.07

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-07.dgn
PLOTTED DATE: 7/8/2025



PARTIAL ELEVATION - TYPICAL REINFORCED CONCRETE PARAPET DETAILS

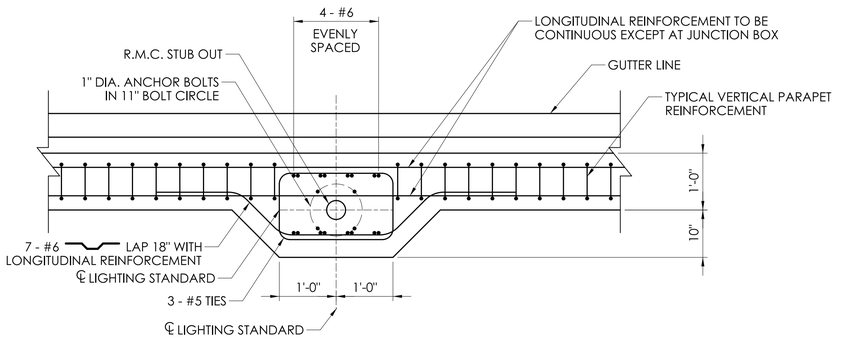
SCALE: ¾" = 1'-0"



* = TYPICAL PARAPET REINFORCEMENT TO BE DOUBLED IN THESE AREAS.

PARAPET BUILD-OUT ELEVATION

SCALE: ¾"=1'



PARAPET BUILD-OUT PLAN

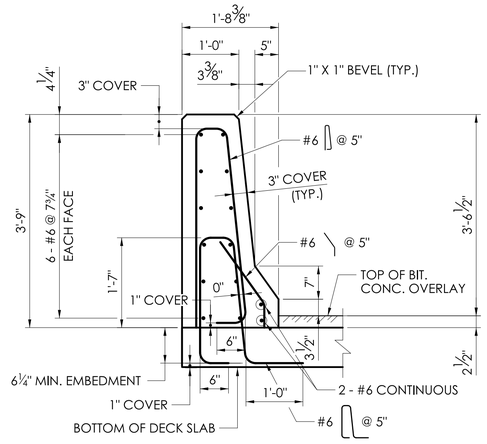
SCALE: ¾"=1'

REINFORCEMENT SPLICE NOTES:

1. THE SPLICE LENGTH FOR THE REINFORCEMENT IN THE PARAPETS SHALL BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE:

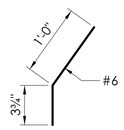
BAR SIZE	SPLICE LENGTH
#6	2'-6"

2. THE SPLICES SHALL BE ALTERNATED SO THAT 50% OR LESS OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.



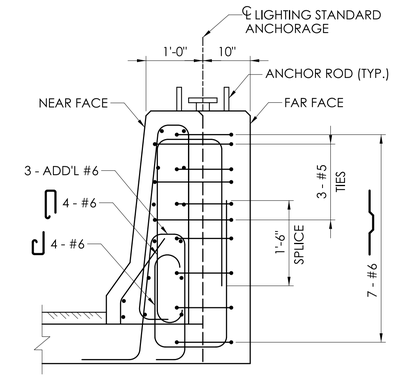
PARAPET ON DECK SLAB

SCALE: ¾" = 1'-0"



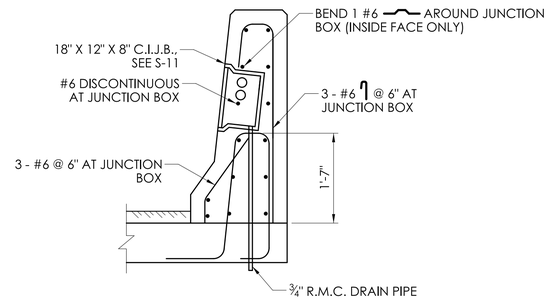
SAFETY CURB REBAR

SCALE: N.T.S.



PARAPET BUILD-OUT SECTION

SCALE: ¾"=1'



JUNCTION BOX SECTION

SCALE: ¾"=1'

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: IIL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103

DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: F-SHAPED PARAPET - REINFORCEMENT

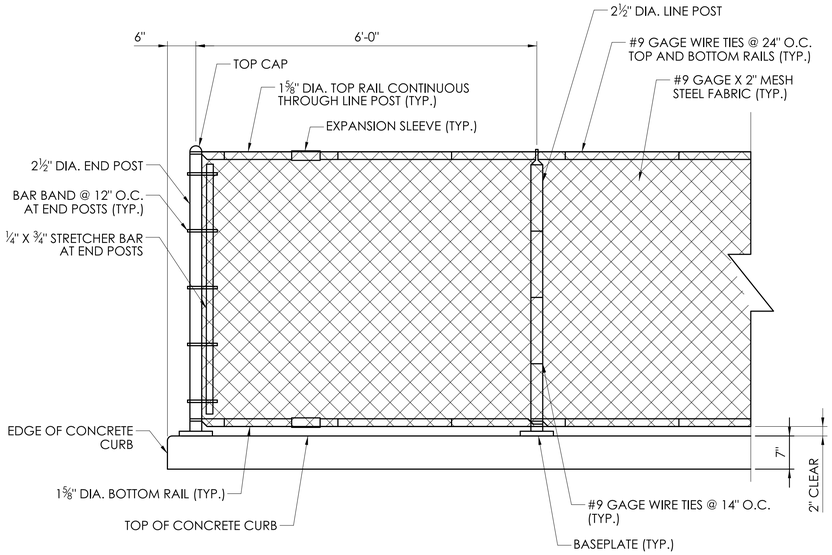
PROJECT NO.: 0151-0340

DRAWING NO.: S-08

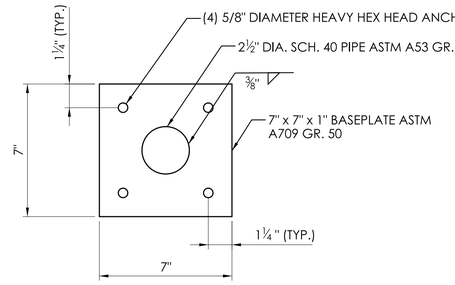
SHEET NO.: 04.08

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-08.dgn

PLOTTED DATE: 7/8/2025

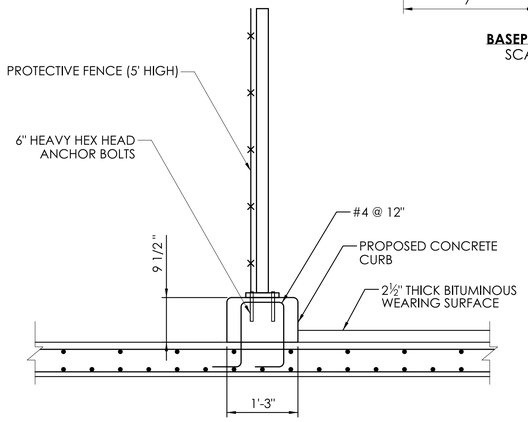


PROTECTIVE FENCE (5' HIGH) ELEVATION
SCALE: ¾"=1'

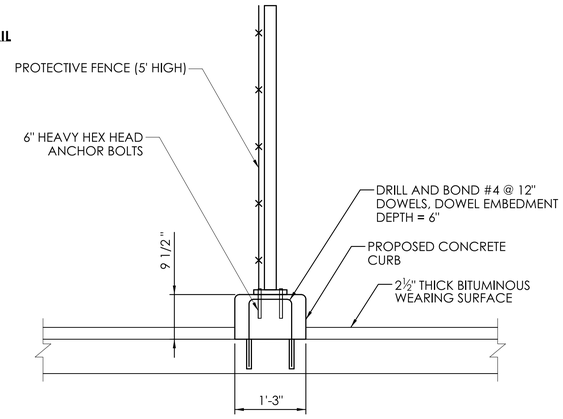


NOTES:
1. EPOXY ANCHOR SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. THE COST OF FABRICATING AND INSTALLING FENCE POSTS, BASEPLATES, ANCHOR BOLTS, AND ALL OTHER COMPONENTS OF THE CHAIN LINK FENCE SHALL BE INCLUDED IN "ITEM 0913952A - PROTECTIVE FENCE (5' HIGH)."

BASEPLATE DETAIL
SCALE: 3"=1'



PROTECTIVE FENCE (5' HIGH) SECTION - PROPOSED DECK
SCALE: ¾"=1'



NOTES:
1. ADHESIVE FOR POST-INSTALLED ANCHORS SHALL BE HILTI HIT-RE 500 V3.
2. INSTALLATION, INCLUDING BUT NOT LIMITED TO DRILLING METHOD, HOLE DIAMETER, AND HOLE CLEANING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR THE ADHESIVE PRODUCT AND DOWEL SPECIFIED.

PROTECTIVE FENCE (5' HIGH) SECTION - EXISTING DECK
SCALE: ¾"=1'

REVISION DESCRIPTION | DATE | REV.

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103
DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **CHAIN LINK FENCE DETAILS**

PROJECT NO.: **0151-0340**

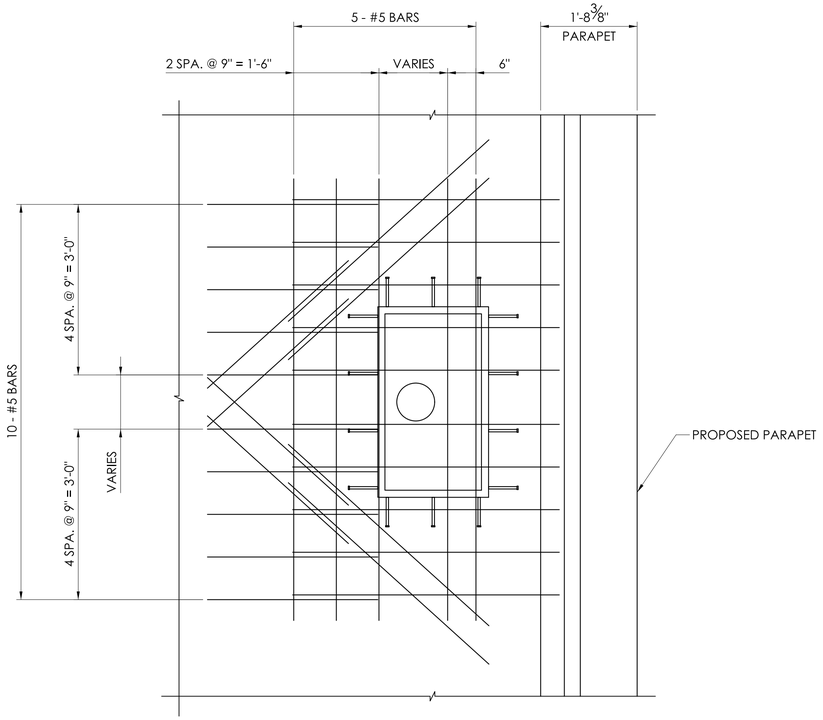
DRAWING NO.: **S-09**

SHEET NO.: 04.09

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOB522\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-09.dgn
PLOTTED DATE: 7/8/2025

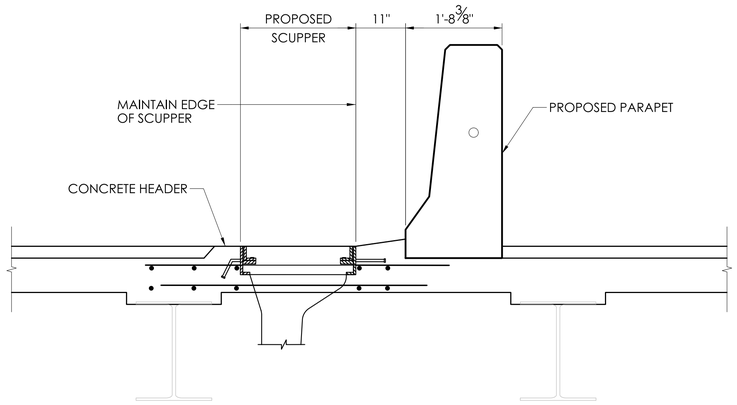
NOTES

1. THE WEARING SURFACE BETWEEN THE SCUPPER AND CURB SHALL BE SLOPED TO FACILITATE DRAINAGE AND AVOID PONDING ALONG THE CURB LINE.
2. REINFORCING FOR SCUPPER TO BE PAID FOR UNDER THE ITEM "DEFORMED STEEL BARS - GALVANIZED."
3. ALL MATERIAL ASSOCIATED WITH THE SCUPPER INCLUDING THE FIBERGLASS HOPPER, GRATE ASSEMBLY, ANCHORAGE PLATES, ANGLES AND STUDS SHALL BE PAID FOR UNDER THE ITEM "BRIDGE SCUPPER - FIBERGLASS HOPPER."



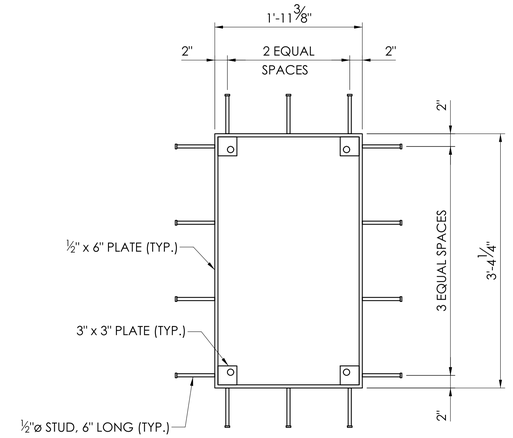
DECK REINFORCEMENT PLAN

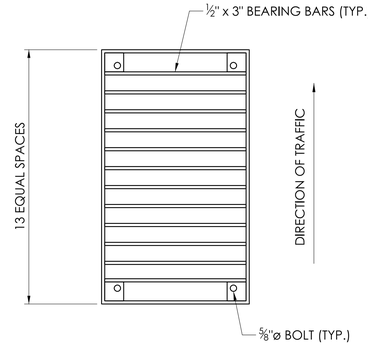
SCALE: 3/4" = 1'-0"



TYPICAL SECTION

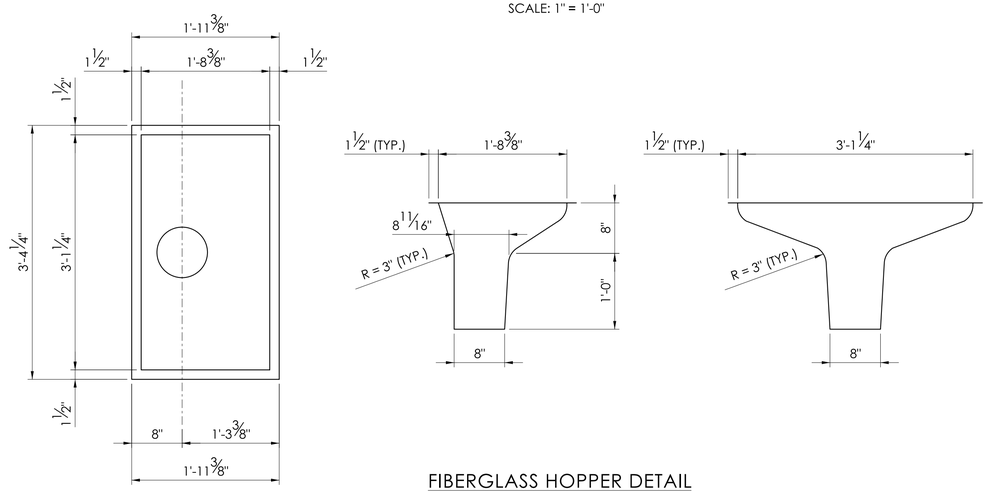
SCALE: 3/4" = 1'-0"





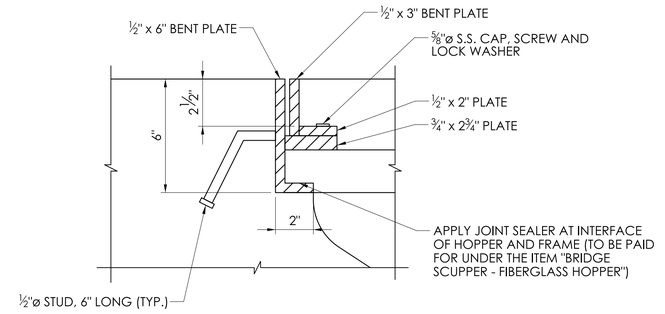
GRATE ASSEMBLY DETAILS

SCALE: 1" = 1'-0"



FIBERGLASS HOPPER DETAIL

SCALE: 1" = 1'-0"



GRATE ANCHOR DETAIL

SCALE: 3" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103

DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE AS NOTED

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP**

TOWN(S): **WATERBURY**

DRAWING TITLE: **SCUPPER DETAILS**

PROJECT NO.: **0151-0340**

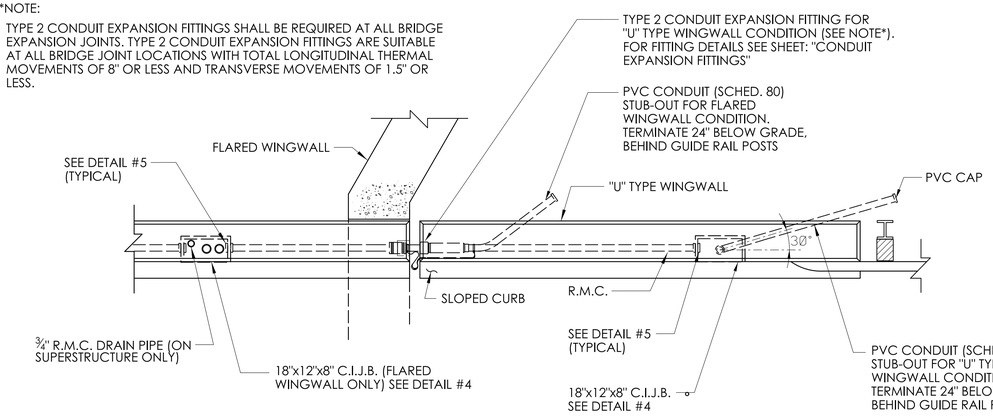
DRAWING NO.: **S-10**

SHEET NO.: 04.10

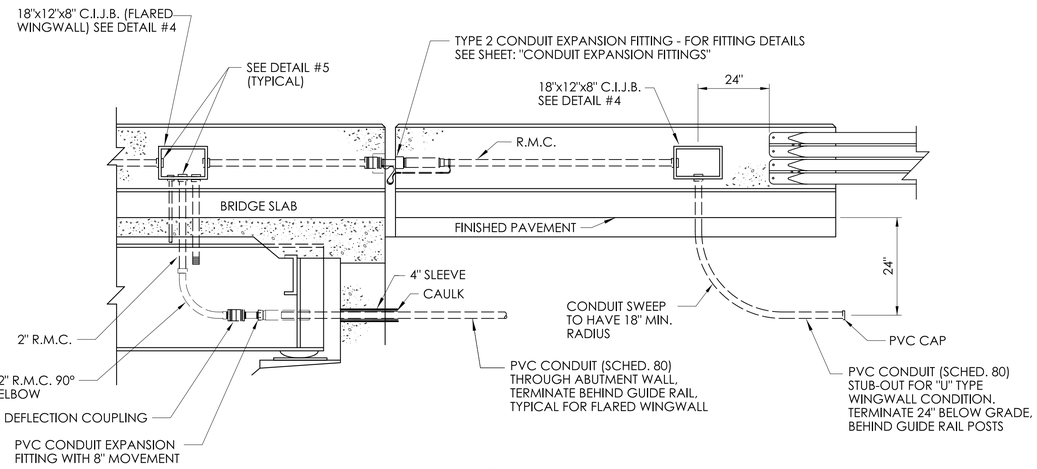
LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-10.dgn
PLOTTED DATE: 7/8/2025

*NOTE:

TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" OR LESS.

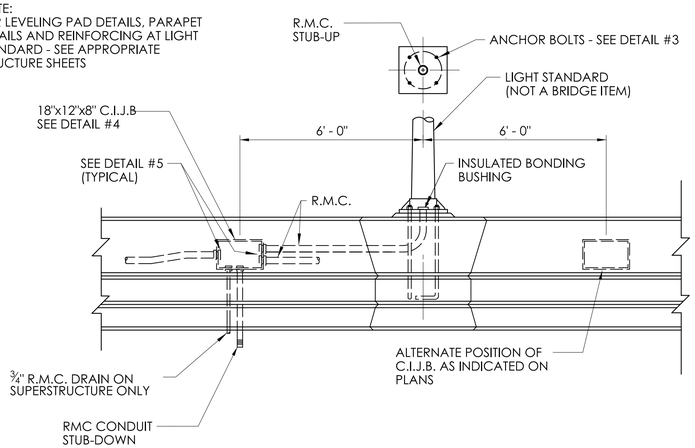


TOP VIEW

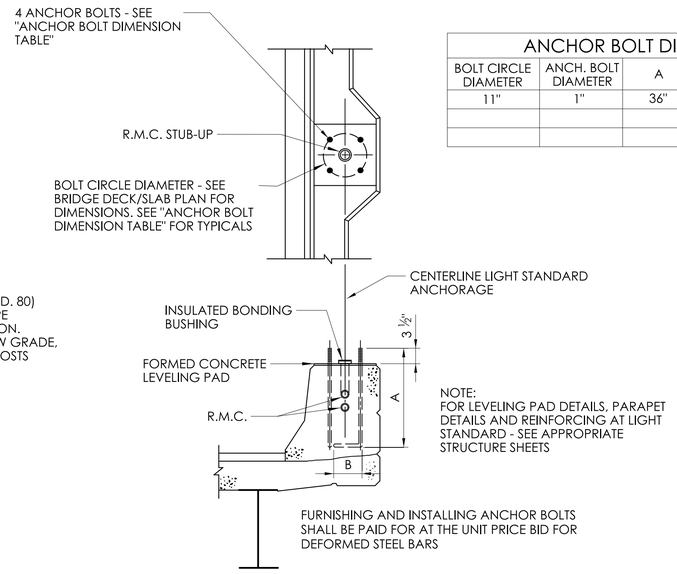


1) CONDUIT PARAPET TO FILL

NOTE:
FOR LEVELING PAD DETAILS, PARAPET DETAILS AND REINFORCING AT LIGHT STANDARD - SEE APPROPRIATE STRUCTURE SHEETS



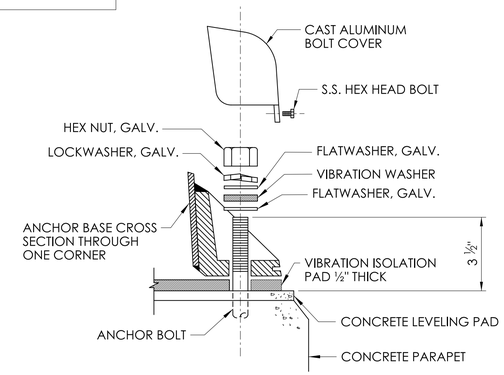
2) LIGHT STANDARD ON PARAPET WALL



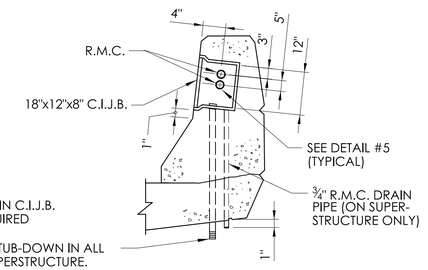
NOTE:
FOR LEVELING PAD DETAILS, PARAPET DETAILS AND REINFORCING AT LIGHT STANDARD - SEE APPROPRIATE STRUCTURE SHEETS

3) PARAPET TREATMENT AT LIGHT STANDARD

ANCHOR BOLT DIMENSION TABLE				
BOLT CIRCLE DIAMETER	ANCH. BOLT DIAMETER	A	B	TYPICAL LIGHT STANDARD HEIGHT
11"	1"	36"	4"	35'



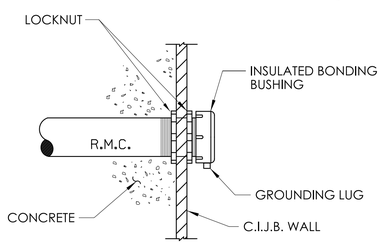
7) ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



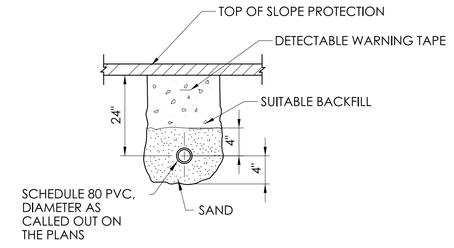
NOTE:
PROVIDE DRILLED SLIPHOLES IN C.I.J.B. FOR RMC AND FGC AS REQUIRED

INSTALL RMC CONDUIT STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. DIAMETER OF STUB-DOWN CONDUIT TO EQUAL DIAMETER OF CONDUIT IN PARAPET WALL

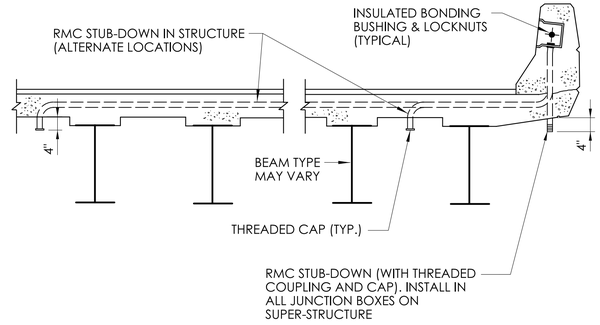
4) JUNCTION BOX INSTALLATION



5) RMC ENTRY INTO CAST IRON JUNCTION BOX



6) CONDUIT UNDER SLOPE PROTECTION



8) SERVICE TO LUMINAIRE UNDER STRUCTURE

NOTES:

1) SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
2) DIAMETER OF RIGID METAL CONDUIT AND PVC CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.
3) CONDUIT STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL (UNLESS OTHERWISE NOTED ON THE PLANS).
4) INSTALL ONE CONDUIT STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
5) PVC CONDUIT SHALL BE SCHEDULE 80.
6) SEE BRIDGE DECK/SLAB PLANS FOR LIGHT STANDARD ANCHORAGE BOLT CIRCLE DIAMETER.
7) USE APPLICABLE DETAILS.
8) CONDUIT EXPANSION AND DEFLECTION FITTINGS SHALL BE PAID FOR AS PART OF THE CONDUIT.

REV. | DATE | REVISION DESCRIPTION

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103
DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE: NOT TO SCALE

CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

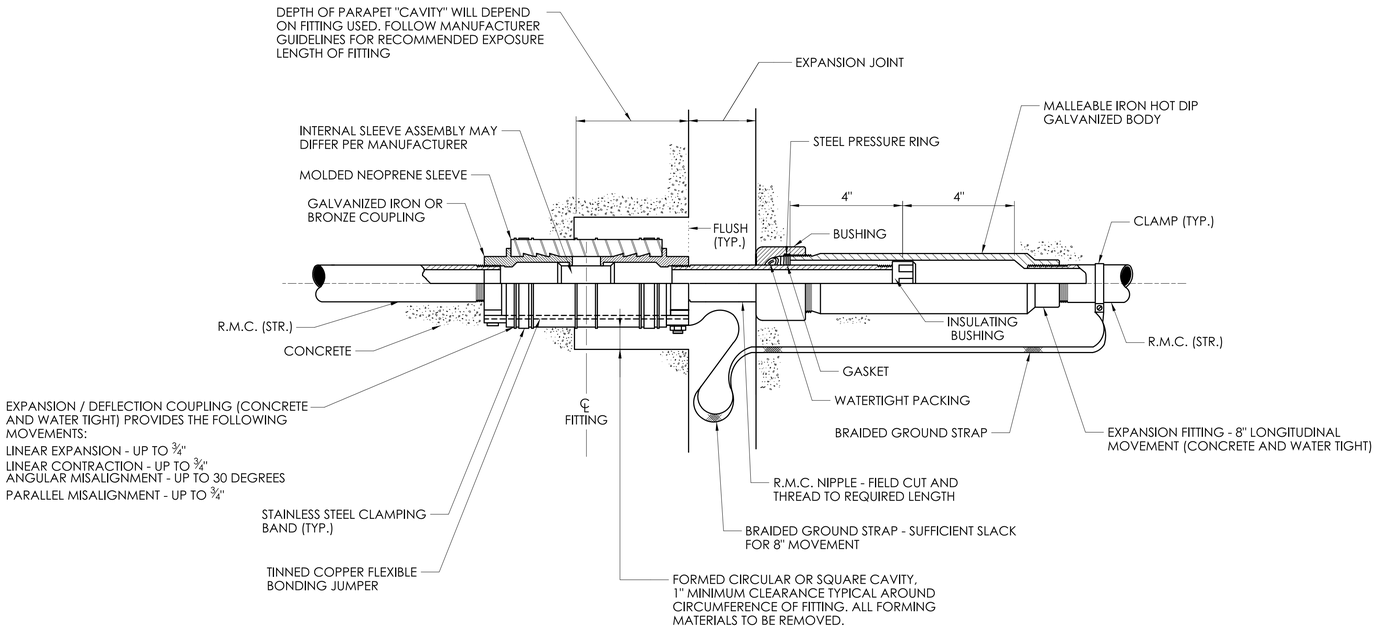
DRAWING TITLE: STRUCTURE RELATED ELECTRICAL DETAILS

PROJECT NO.: 0151-0340

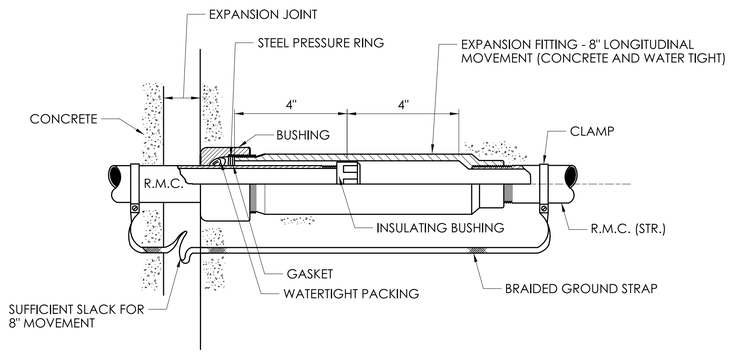
DRAWING NO.: S-11

SHEET NO.: 04.11

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-11.dgn
PLOTTED DATE: 7/8/2025



EXPANSION FITTING TYPE 2



EXPANSION FITTING TYPE 1

NOTES:

1) TYPE 1 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE CONCRETE RETAINING WALLS SHARING COMMON PILE SUPPORTED FOOTINGS.
2) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" OR LESS.
3) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE RETAINING WALLS WHERE THE FOUNDATION TRANSITIONS FROM A PILE SUPPORTED FOUNDATION TO A SPREAD FOOTING FOUNDATION.
4) ORIENTATION OF CONDUIT EXPANSION FITTING SHALL BE FIELD DETERMINED.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: BL Companies, 100 Constitution Plaza, 10th Floor, Hartford, CT 06103

DESIGNER/DRAFTER: T.E.Y. CHECKED BY: M.E.A.

SCALE: NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

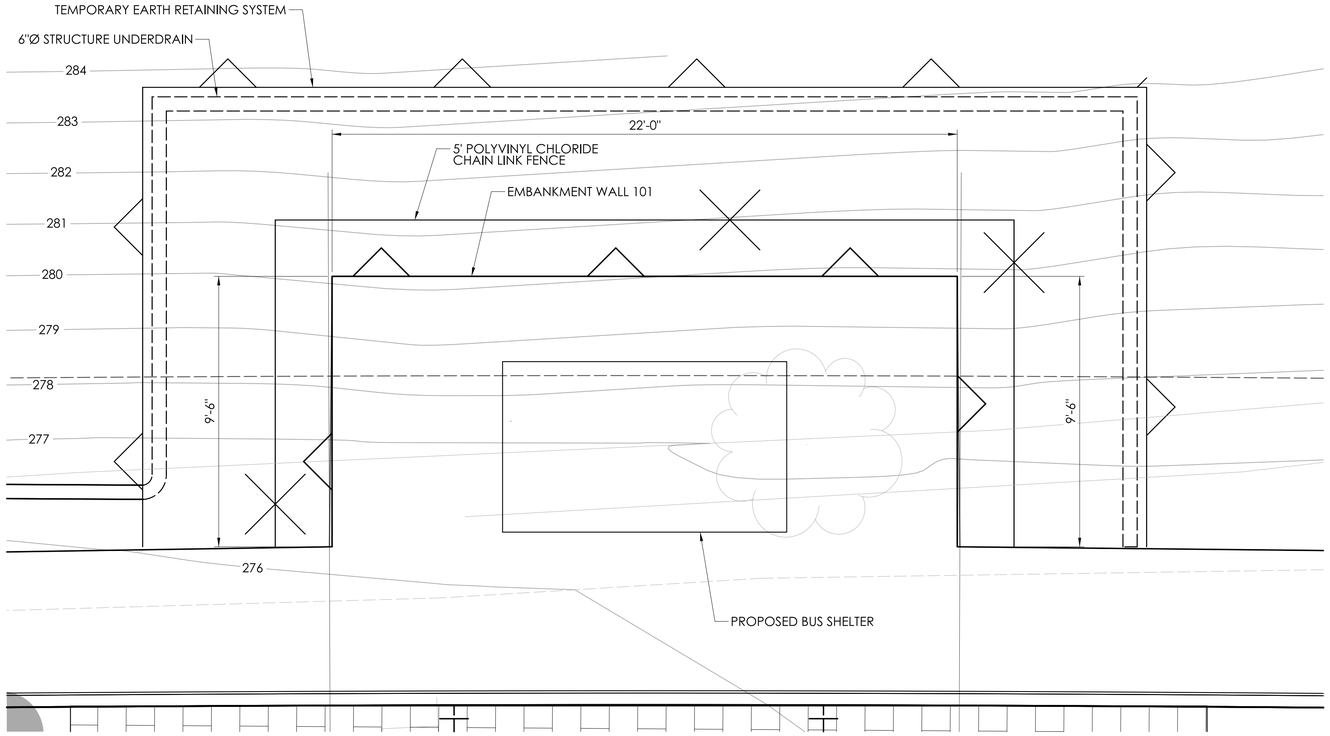
DRAWING TITLE: CONDUIT EXPANSION FITTINGS

PROJECT NO.: 0151-0340

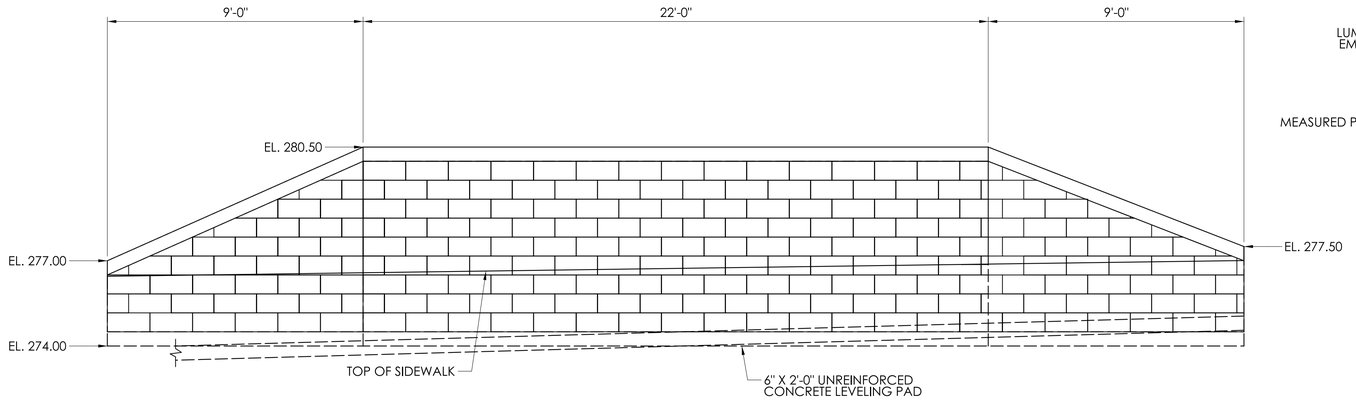
DRAWING NO.: S-12

SHEET NO.: 04.12

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-12.dgn
PLOTTED DATE: 7/8/2025



PLAN
SCALE: ⅜"=1'

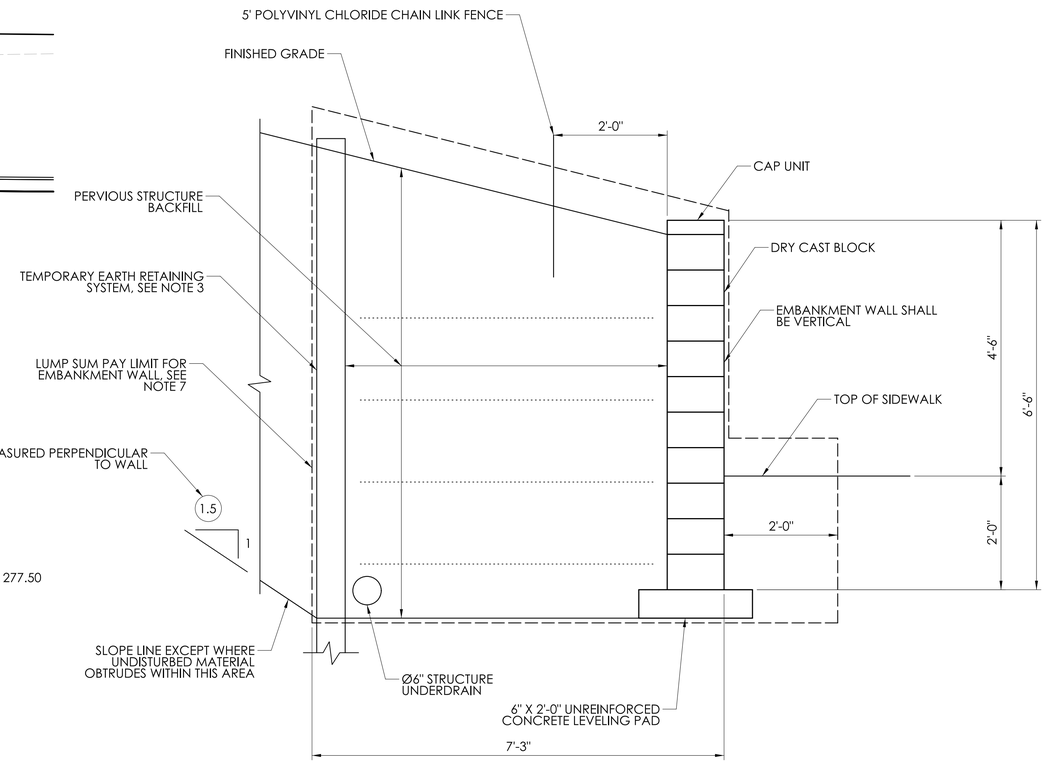


DEVELOPED ELEVATION
SCALE:⅜"=1'

GENERAL NOTES

1. SEE PLN-03 FOR LOCATION OF EMBANKMENT WALL.
2. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED, AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH THE SHEET PILING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
4. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY THE SECTION FOR THE SPECIFIC SITE.
5. THE CONTRACTOR SHALL SELECT, DESIGN, AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
6. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.

EMBANKMENT WALL NUMBER	EMBANKMENT WALL TYPE	SITE NO.	STATION
EMBANKMENT WALL 101	RECON RETAINING WALL KEYSYSTEM III RETAINING WALL REDI-ROCK RETAINING WALL - COBBLESTONE FACE MOLD MESA RETAINING WALL SYSTEM VERSA-LOK RETAINING WALL	1	START: 19+89.08 OFFSET: 25'-0" END: 20+10.92 OFFSET: 25'-0"



TYPICAL SECTION
SCALE:¾"=1'

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:
BL Companies
100 Constitution Plaza
10th Floor
Hartford, CT 06103

DESIGNER/DRAFTER: TMB CHECKED BY: MEA

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: REMOVAL OF I-84 EASTBOUND EXIT 21 OFF-RAMP

TOWN(S): WATERBURY

DRAWING TITLE: EMBANKMENT WALL (SITE NO. 1)

PROJECT NO.: 0151-0340

DRAWING NO.: S-13

SHEET NO.: 04.13

LASTED SAVED BY: tVitale **FILE NAME:** G:\JOBS22\14\2201557\+ASSIGNMENTS\01_0151-0340-Waterbury\DGN\Bridge\Contract_Plans\SB_CP_0151-0340_S-13.dgn
PLOTTED DATE: 7/9/2025