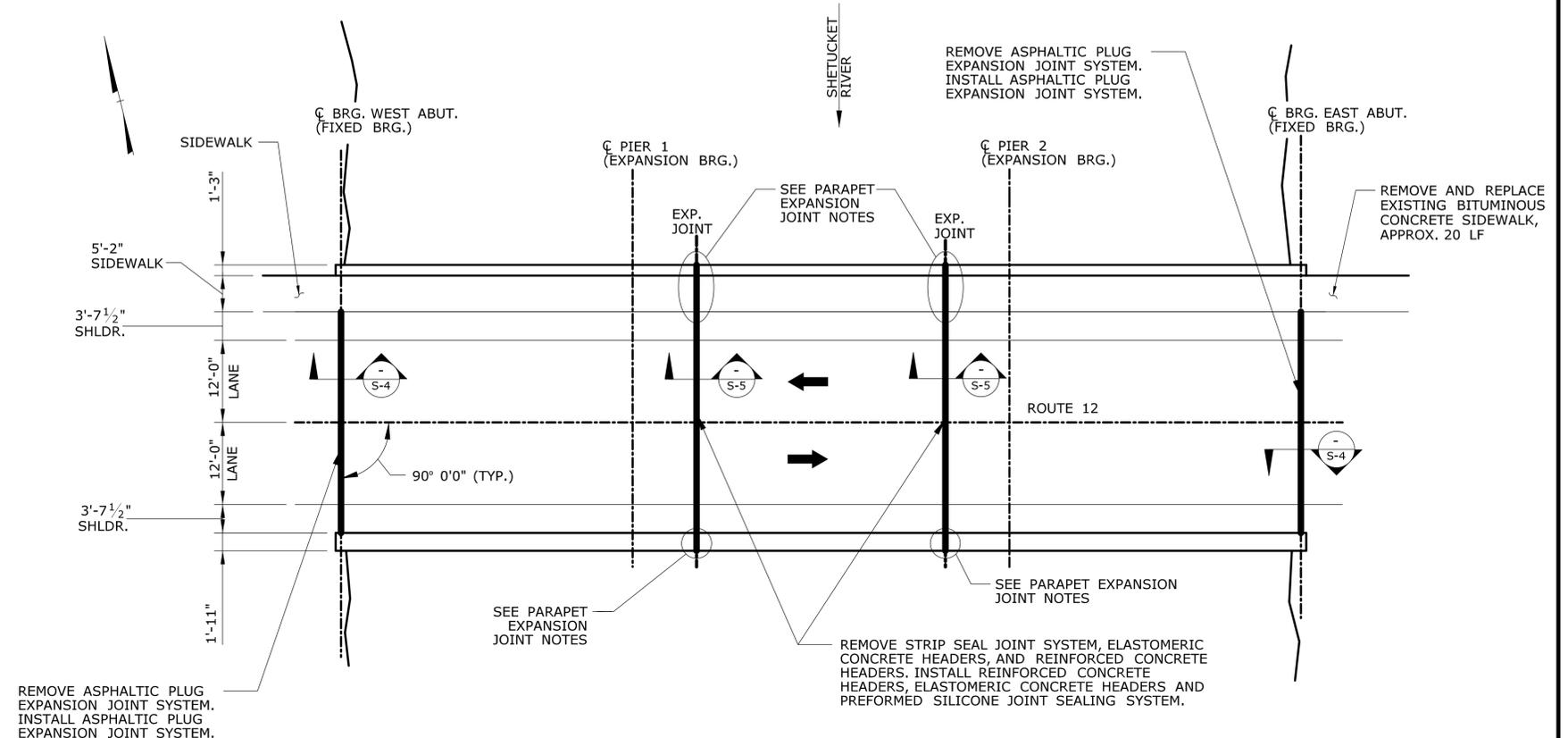


LOCATION PLAN  
BRIDGE NO. 00663 - NORWICH/LISBON  
SCALE: 1"=650'

INFORMATION FOR REPLACEMENT AND REHABILITATION OF EXISTING DECK JOINTS		
		BRIDGE NO. 00663
BRIDGE GEOMETRY AND DATA	DIRECTION OF TRAVEL	EACH WAY
	ROUTE	RTE. 12
	MILEPOINT	15.44
	NUMBER OF TRAVEL LANES	2
	CURB-CURB WIDTH (FT)	31.2
DECK JOINT TYPE	ASPHALTIC PLUG EXPANSION JOINT SYSTEM (# ON BRIDGE)	2
	PREFORMED SILICONE JOINT SEALING SYSTEM AND ELASTOMERIC CONCRETE HEADERS (# ON BRIDGE)	2
JOINT REPLACEMENT LOCATION AND DETAIL	BRIDGING PLATE	NO
	WEST ABUTMENT	DWG. NO. S-4
	SPAN 2 - WEST END	DWG. NO. S-5
	SPAN 2 - EAST END	DWG. NO. S-5
THERMAL MOVEMENT RANGE (IN)	WEST ABUTMENT	0
	SPAN 2 - WEST END	1.24
	SPAN 2 - EAST END	1.24
	EAST ABUTMENT	0



GENERAL PLAN - BRIDGE NO. 00663  
ROUTE 12 OVER SHETUCKET RIVER  
N.T.S.

**PARAPET EXPANSION JOINT NOTES:**

WORK ASSOCIATED WITH PARAPET EXPANSION JOINTS IDENTIFIED ON GENERAL PLAN SHALL BE AS FOLLOWS:

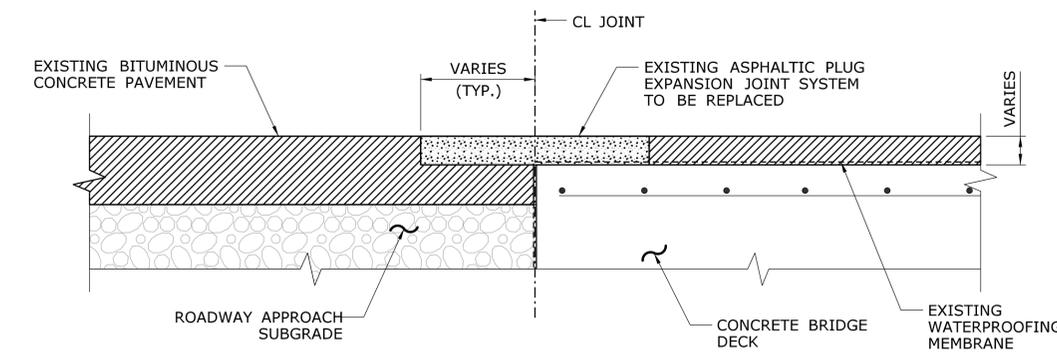
- WEST ABUTMENT/EAST ABUTMENT NORTH PARAPET AND SIDEWALK/SOUTH PARAPET: NO WORK TO BE COMPLETED.
- SPAN 2 - WEST END/SPAN 2 - EAST END NORTH PARAPET AND SIDEWALK: REMOVE PLANK TYPE JOINT SYSTEM. RECONSTRUCT REINFORCED CONCRETE DECK ENDS AND INSTALL PREFORMED SILICONE JOINT SEALING SYSTEM IN CURB AND SIDEWALK. SEAL PARAPET JOINT WITH SILICONE JOINT SEALANT AND BACKER ROD TO LIMITS DEFINED ON DWG. S-6.

SOUTH PARAPET: REMOVE STRIP SEAL EXPANSION JOINT SYSTEM, ELASTOMERIC CONCRETE HEADERS AND UNSOUND CONCRETE TO TOP OF SLOPED CONCRETE CURB. INSTALL ELASTOMERIC CONCRETE HEADERS AND A PREFORMED SILICONE JOINT SEALING SYSTEM TO TOP OF SLOPED CONCRETE CURB. SEAL PARAPET JOINT ABOVE SLOPED CONCRETE CURB WITH SILICONE JOINT SEALANT AND BACKER ROD TO LIMITS DEFINED ON DWG. S-6.

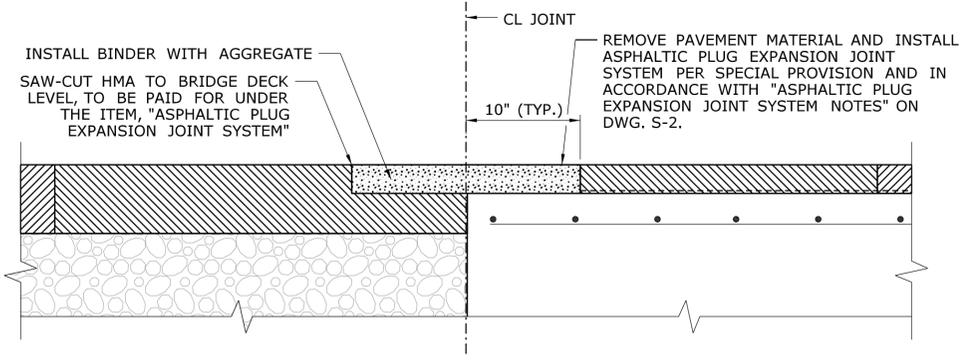
**TRAFFIC NOTES:**

- CONTRACTOR SHALL SUBMIT A CONSTRUCTION PROCEDURE DESCRIBING THE SCHEDULE AND DURATION OF WORK. ALL TRAFFIC OPERATIONS MUST COMPLY WITH THE LIMITATIONS OF OPERATIONS IN SECTION 1.08-PROSECUTION AND PROGRESS, AND THE CONTRACTOR SHALL MAINTAIN AND PROTECT TRAFFIC IN ACCORDANCE WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC ITEM 09710001A.
- THE CONTRACTOR SHALL MAINTAIN AND PROTECT PEDESTRIAN ACCESS THROUGH THE PROJECT SITE DURING ALL STAGES OF WORK.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/24/2014	DESIGNER/DRAFTER: <b>D. BILODEAU</b>	CHECKED BY: <b>M. CROTEAU</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: Kleinfelder 2 Wall St., Ste. 450 Manchester, NH 03101-1518	PROJECT TITLE: <b>DISTRICT 2 BRIDGE PRESERVATION AT DECK JOINTS</b>	TOWN: <b>NORWICH/LISBON</b>	PROJECT NO. <b>172-411</b>
					SCALE AS NOTED					DRAWING TITLE: <b>LOCATION &amp; DECK PLANS</b>	DRAWING NO. <b>S-3</b>
					Filename: ...03.03_SB_MSH_172_411_LOCATION & DECK PLANS.dgn						SHEET NO. <b>03.03</b>



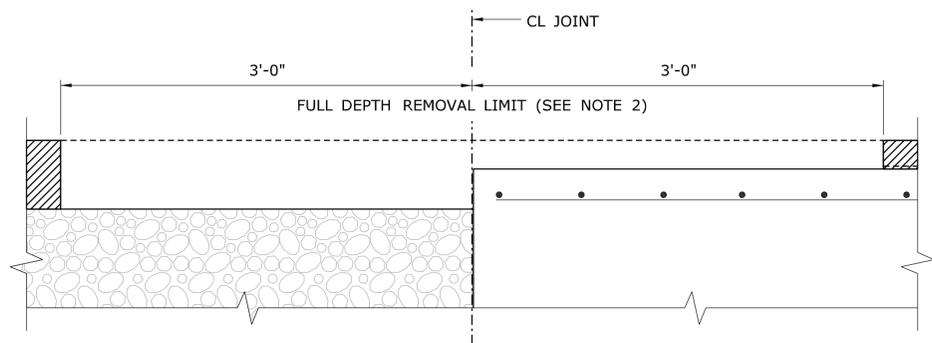
**EXISTING ROADWAY JOINT AT WEST ABUTMENT & EAST ABUTMENT, BRIDGE NO. 00663**  
SCALE: 1 1/2"=1'-0"



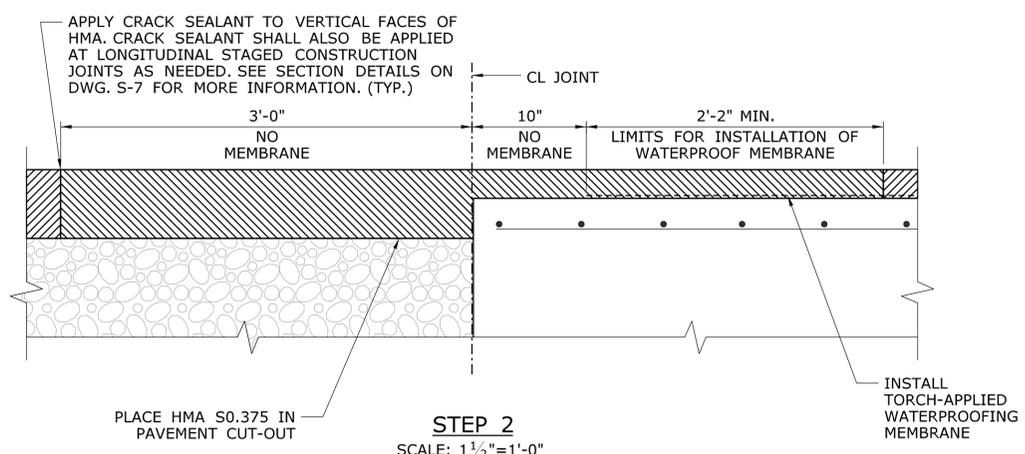
**FINAL CONDITION**  
SCALE: 1 1/2"=1'-0"  
NOTE: SEE "ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES" ON DWG. S-2 FOR ADDITIONAL INFORMATION.

**NOTES - BRIDGE NO. 00663 - WEST ABUTMENT/EAST ABUTMENT:**

1. JOINT REPAIR DESCRIPTIONS:  
AT THE LOCATION OF THE END OF THE CONCRETE BRIDGE DECK AT BOTH THE WEST AND EAST ABUTMENTS IS AN EXISTING PLUG JOINT. REMOVE PAVEMENT AND REPAVE EITHER SIDE OF THE JOINT TO PREPARE FOR THE INSTALLATION OF AN ASPHALTIC PLUG EXPANSION JOINT SYSTEM. WORK TO BE COMPLETED FROM GUTTER LINE TO GUTTER LINE.
2. AT LIMITS OF FULL DEPTH REMOVAL, CUT BITUMINOUS CONCRETE PAVEMENT TO BRIDGE DECK/APPROACH SUBGRADE LEVEL.
3. VIEWS SHOWN ARE BASED ON LIMITED DOCUMENTATION OF FIELD CONDITIONS. ACTUAL FIELD CONDITIONS AND DIMENSIONS MAY VARY. THE CONTRACTOR SHALL VERIFY THE EXTENT OF DETERIORATION AND ALL DIMENSIONS IN THE FIELD PRIOR TO THE REMOVAL OF THE EXISTING JOINT.
4. THE REMOVAL OF EXISTING BITUMINOUS CONCRETE AND EXPANSION JOINT AS SHOWN SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "REMOVAL OF HMA WEARING SURFACE."
5. UNSOUND CONCRETE AS DETERMINED BY ENGINEER IN BRIDGE DECK NEEDED TO BE REMOVED AND REPAIRED WILL BE PAID FOR UNDER ITEM "PARTIAL DEPTH PATCH."



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



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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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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.

Plotted Date: 10/24/2014

DESIGNER/DRAFTER: **K. CONSTANZER**  
CHECKED BY: **M. CROTEAU**

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

SCALE AS NOTED

Filename: ...03.04\_SB\_MSH\_172\_411\_JOINT\_DETAILS.dgn

SIGNATURE/BLOCK:

Kleinfelder  
2 Wall St., Ste. 450  
Manchester, NH  
03101-1518

PROJECT TITLE:

**DISTRICT 2**  
**BRIDGE PRESERVATION**  
**AT DECK JOINTS**

TOWN: **NORWICH/LISBON**

DRAWING TITLE:  
**DECK JOINT DETAILS**  
**(SHEET 1 OF 2)**

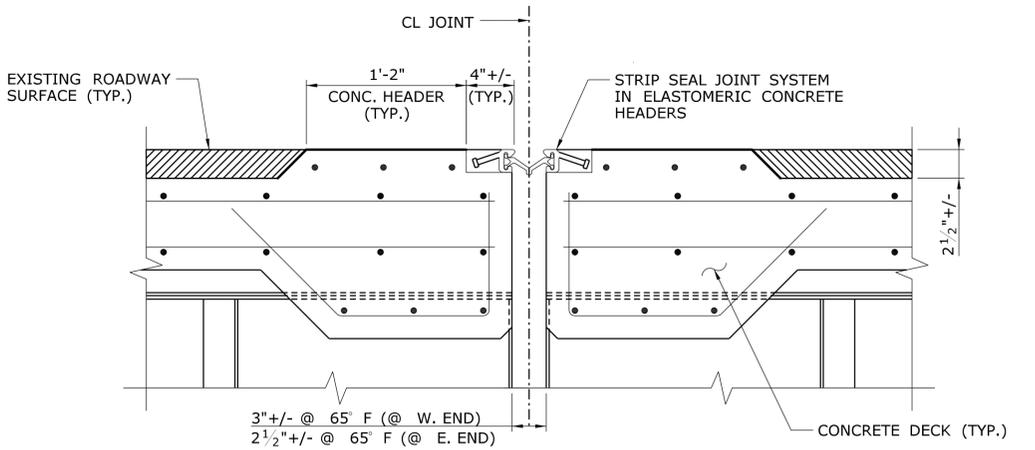
PROJECT NO. **172-411**

DRAWING NO. **S-4**

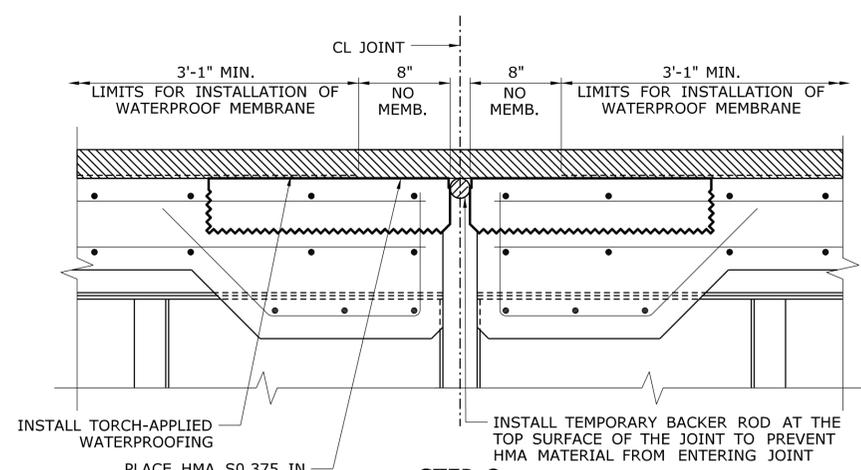
SHEET NO. **03.04**

**NOTES - BRIDGE NO. 00663 -  
SPAN 2 - WEST END/SPAN 2 - EAST END**

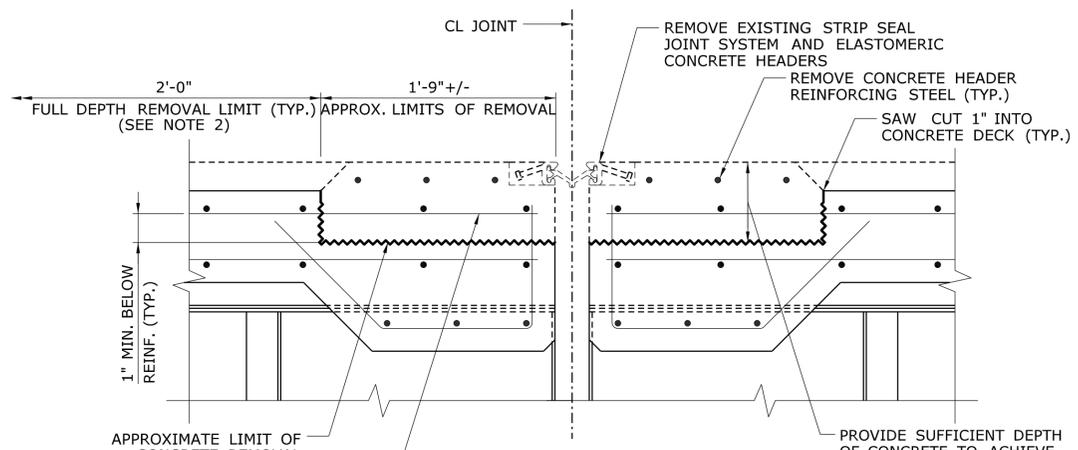
1. JOINT REPAIR DESCRIPTIONS:  
THE EXISTING PIN AND HANGER LOCATION AT THE WEST AND EAST ENDS OF SPAN 2 HAS A STRIP SEAL JOINT ASSEMBLY WITH STEEL EXTRUSIONS SET IN ELASTOMERIC CONCRETE HEADERS. REMOVE THE STRIP SEAL JOINT ASSEMBLY INCLUDING THE ELASTOMERIC CONCRETE HEADERS AND REINFORCED CONCRETE HEADERS. RECONSTRUCT CONCRETE DECK ENDS, INSTALL ELASTOMERIC CONCRETE HEADERS AND A PREFORMED SILICONE JOINT SEALING SYSTEM. WORK TO BE COMPLETED FROM GUTTER LINE TO GUTTER LINE.
2. AT LIMITS OF FULL DEPTH REMOVAL, CUT BITUMINOUS CONCRETE PAVEMENT TO BRIDGE DECK LEVEL.
3. AFTER REMOVAL OF THE JOINT AND DECK CONCRETE THE HORIZONTAL REINFORCEMENT MAY BE FOUND TO BE DETERIORATED PAST THE POINT THAT IS ACCEPTABLE TO REUSE. REMOVE CONCRETE AS FAR AS REQUIRED TO EXPOSE SUFFICIENT SOUND REINFORCEMENT TO LAP THE NEW BARS TO. PROVIDE NEW BARS WITH A MINIMUM LAP SPLICE LENGTH OF 13" AND MATCH THE EXISTING SPACING FOR BOTH LONGITUDINAL AND TRANSVERSE BARS.
4. APPLY CRACK SEALANT TO VERTICAL FACE OF HMA. CRACK SEALANT SHALL ALSO BE APPLIED AT LONGITUDINAL STAGED CONSTRUCTION JOINTS AS NEEDED. SEE SECTION DETAILS ON DWG. S-7 FOR MORE INFORMATION.
5. VIEWS SHOWN ARE BASED ON LIMITED DOCUMENTATION OF FIELD CONDITIONS. ACTUAL FIELD CONDITIONS AND DIMENSIONS MAY VARY. THE CONTRACTOR SHALL VERIFY THE EXTENT OF DETERIORATION AND ALL DIMENSIONS IN THE FIELD PRIOR TO THE REMOVAL OF THE EXISTING JOINT.
6. REMOVAL OF EXISTING BITUMINOUS PAVEMENT AND EXPANSION JOINT AS SHOWN SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "REMOVAL OF HMA WEARING SURFACE."
7. REMOVAL OF CONCRETE AND REINFORCING AND CONSTRUCTION OF CONCRETE DECK END SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "PARTIAL DEPTH PATCH."
8. THE CONTRACTOR IS RESPONSIBLE TO MAKE TRANSVERSE REINFORCEMENT CONTINUOUS AT CONSTRUCTION JOINTS/BETWEEN PHASES OF CONSTRUCTION.
9. THE CONTRACTOR SHALL USE A GLAND THAT CAN EXPAND TO A GAP OF AT LEAST 3 1/4"
10. FOR RELATED DETAILS AT THE PARAPET, CURB AND SIDEWALK, SEE DWG. S-6.



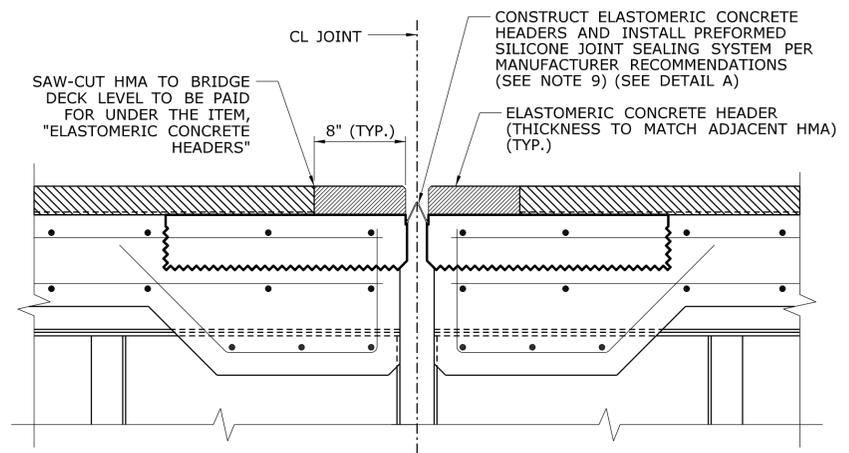
**EXISTING JOINT AT SPAN 2 - WEST END & SPAN 2 - EAST END, BRIDGE NO. 00663**  
SCALE: 1 1/2"=1'-0"



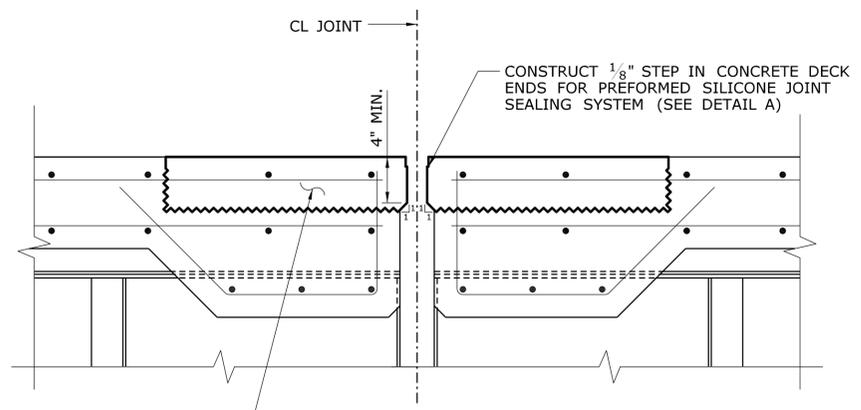
**STEP 3**  
SCALE: 1 1/2"=1'-0"



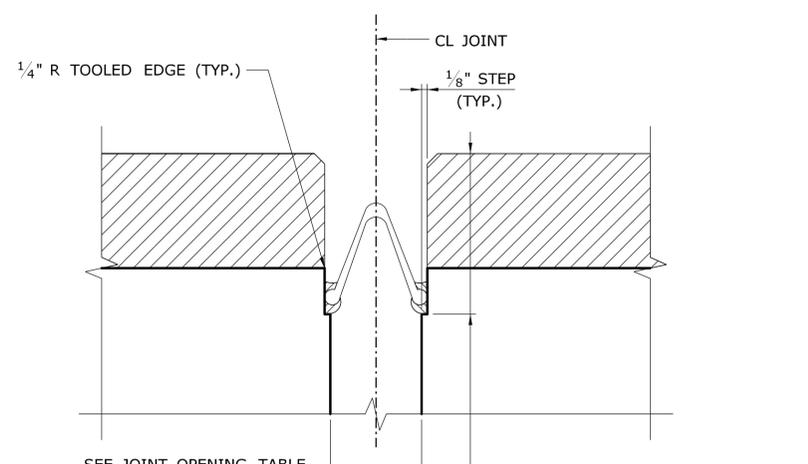
**STEP 1**  
SCALE: 1 1/2"=1'-0"



**FINAL CONDITION**  
SCALE: 1 1/2"=1'-0"



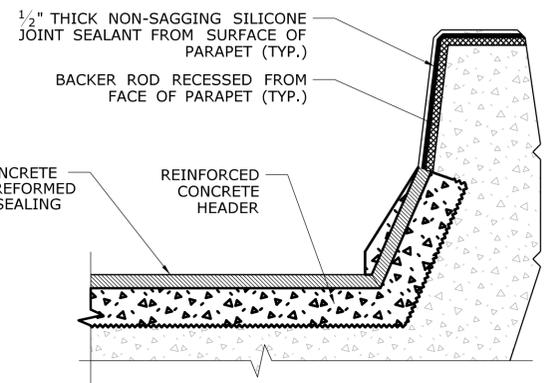
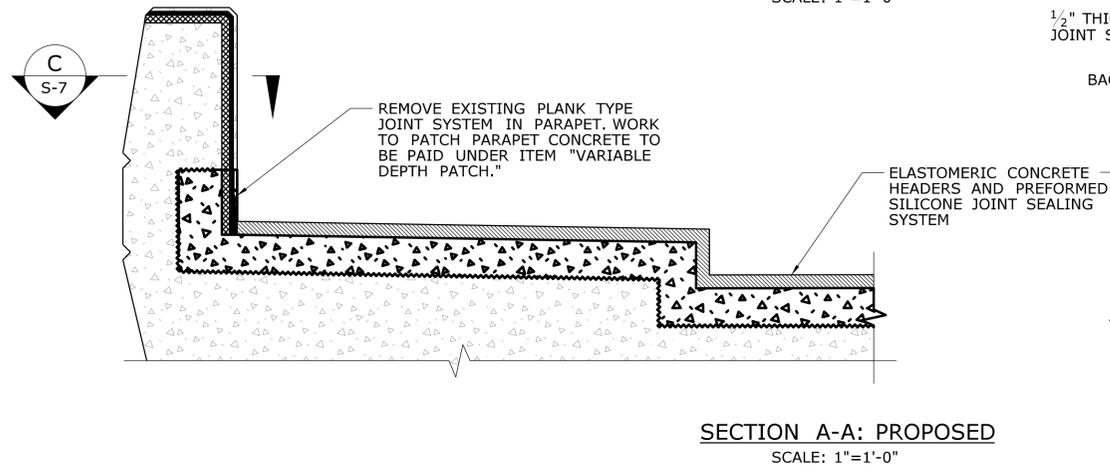
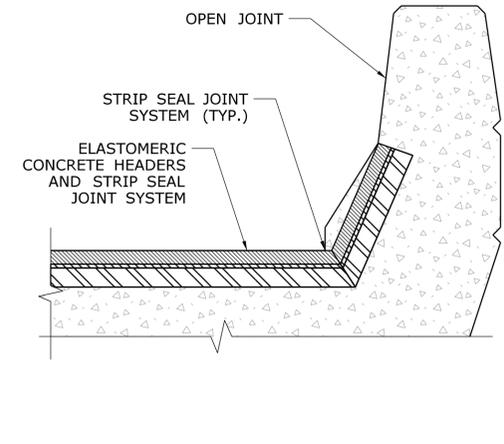
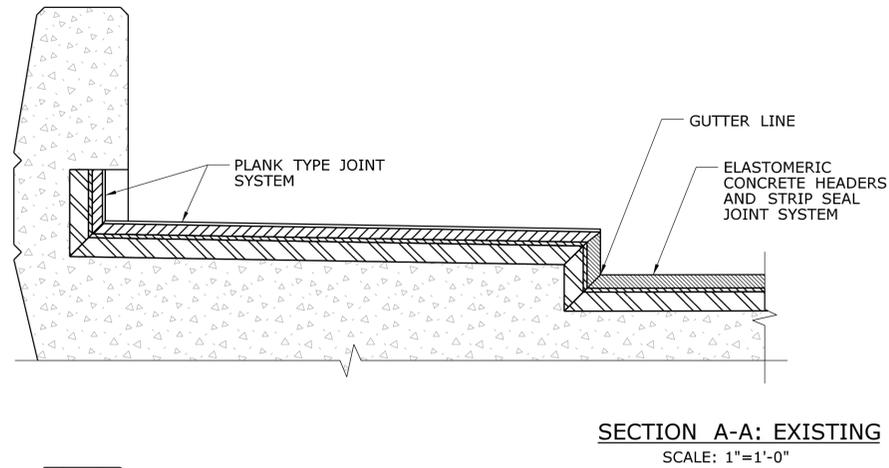
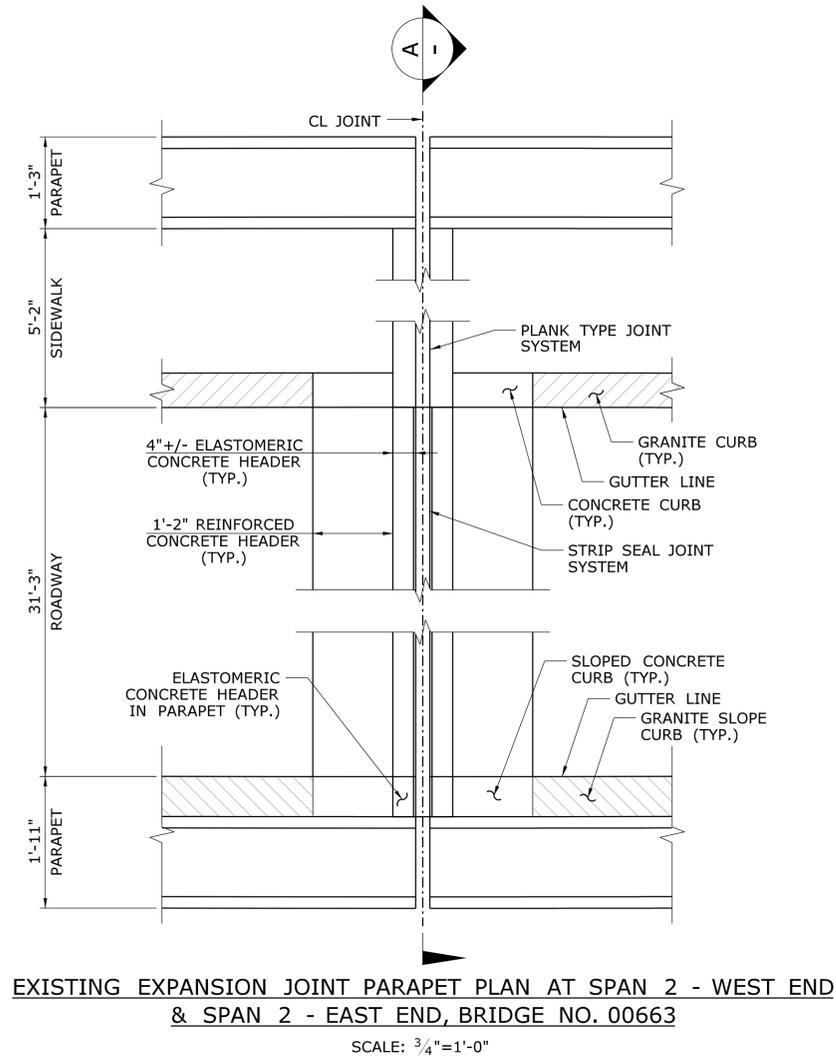
**STEP 2**  
SCALE: 1 1/2"=1'-0"



**DETAIL A**  
SCALE: 6"=1'-0"

EXP. JOINT SYSTEM INSTALL TEMP. (DEG. F)	JOINT OPENING TABLE	
	SPAN 2-WEST END PERPENDICULAR JOINT OPENING (IN.)	SPAN 2-EAST END PERPENDICULAR JOINT OPENING (IN.)
30° F	1.95	1.95
40° F	1.85	1.85
50° F	1.75	1.75
60° F	1.65	1.65
70° F	1.55	1.55
80° F	1.45	1.45
90° F	1.35	1.35

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: 10/24/2014	DESIGNER/DRAFTER: <b>K. CONSTANZER</b> CHECKED BY: <b>M. CROTEAU</b> SCALE AS NOTED	<b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> Filename: ...03.05_SB_MSH_172_411_JOINT_DETAILS.dgn	SIGNATURE/BLOCK: Kleinfelder 2 Wall St., Ste. 450 Manchester, NH 03101-1518	PROJECT TITLE: <b>DISTRICT 2</b> <b>BRIDGE PRESERVATION</b> <b>AT DECK JOINTS</b>	TOWN: <b>NORWICH/LISBON</b> DRAWING TITLE: <b>DECK JOINT DETAILS</b> <b>(SHEET 2 OF 2)</b>	PROJECT NO. <b>172-411</b> DRAWING NO. <b>S-5</b> SHEET NO. <b>03.05</b>
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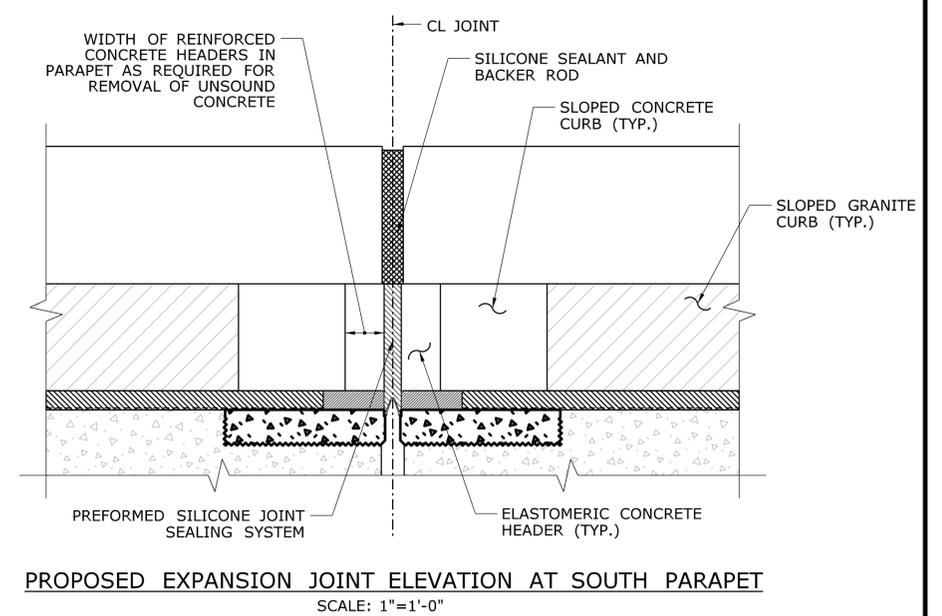
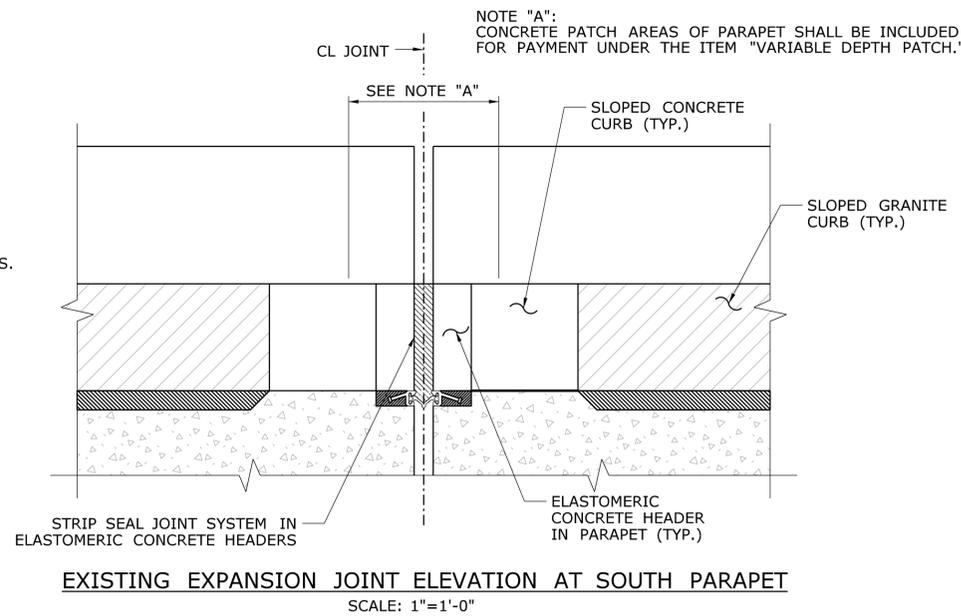


EXISTING EXPANSION JOINT PARAPET PLAN AT SPAN 2 - WEST END & SPAN 2 - EAST END, BRIDGE NO. 00663  
SCALE: 3/4"=1'-0"

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

**PARAPET EXPANSION JOINT NOTES:**

1. PRIOR TO INSTALLING THE NEW BACKER ROD AND SILICONE JOINT SEALANT, REMOVE EXISTING JOINT MATERIAL. CLEAN JOINT SIDES BY SANDBLASTING. DUST SHALL BE REMOVED BY THE METHOD APPROVED BY THE ENGINEER.
2. THE CLOSED CELL BACKER ROD SHALL BE PLACED A MINIMUM OF 2" FROM THE OUTSIDE FACE OF PARAPETS.
3. THE WORK INVOLVED FOR SEALING THE PARAPET JOINTS SHALL BE MEASURED FOR PAYMENT UNDER THE ITEM "REPLACE JOINT SEAL." WORK WILL INCLUDE COST OF CLEANING, CLOSED CELL BACKER ROD, NON-SAGGING SILICONE SEALANT AND PARAPET SEALING.



EXISTING EXPANSION JOINT ELEVATION AT SOUTH PARAPET  
SCALE: 1"=1'-0"

PROPOSED EXPANSION JOINT ELEVATION AT SOUTH PARAPET  
SCALE: 1"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **K. CONSTANZER**  
 CHECKED BY: **M. CROTEAU**  
 SCALE AS NOTED

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 10/24/2014  
 Filename: ...03.06\_SB\_MSH\_172\_411\_PARAPET\_DETAILS.dgn

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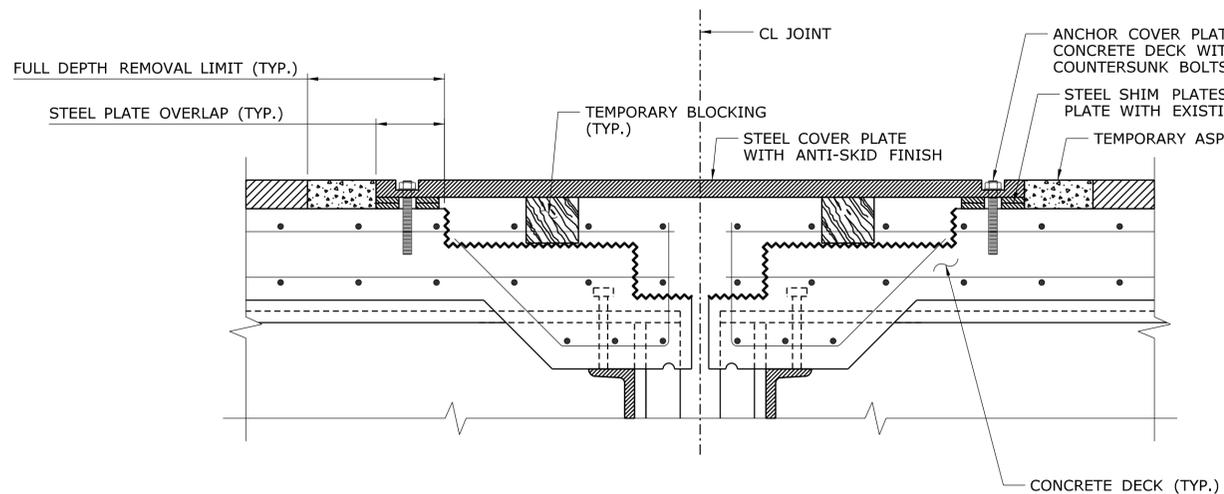
Kleinfelder  
 2 Wall St., Ste. 450  
 Manchester, NH  
 03101-1518

PROJECT TITLE:

**DISTRICT 2  
 BRIDGE PRESERVATION  
 AT DECK JOINTS**

TOWN: **NORWICH/LISBON**  
 DRAWING TITLE: **PARAPET JOINT DETAILS**

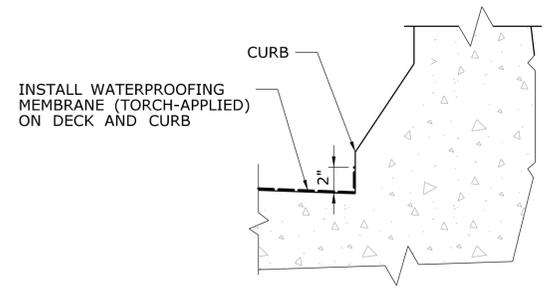
PROJECT NO. **172-411**  
 DRAWING NO. **S-6**  
 SHEET NO. **03.06**



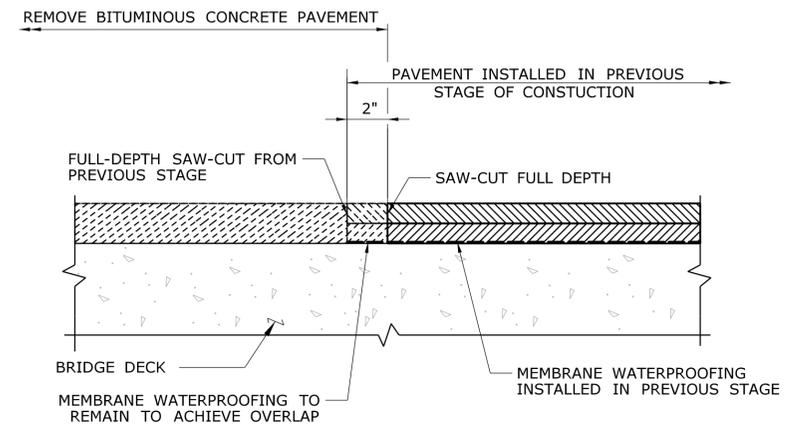
**TEMPORARY STEEL COVER PLATE**  
SCALE: 1 1/2"=1'-0"

**TEMPORARY STEEL COVER PLATE NOTES:**

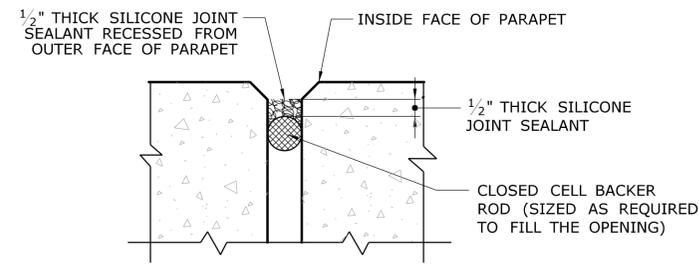
1. APPROVAL FROM ENGINEER IS NEEDED PRIOR TO USE AND INSTALLATION OF TEMPORARY STEEL COVER PLATES.
2. NO DIRECT PAYMENT WILL BE MADE FOR APPROVED USE OF TEMPORARY STEEL COVER PLATES. ALL COSTS ASSOCIATED WITH THE USE OF TEMPORARY STEEL COVER PLATES WILL BE INCLUDED IN ITEM 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC, L.S.
3. THE DETAIL SHOWN IS CONCEPTUAL. THE CONTRACTOR IS REQUIRED TO SUBMIT STAMPED WORKING DRAWINGS (CALCULATIONS AND DETAILS) ASSOCIATED WITH THE TEMPORARY STEEL COVER PLATE IN CONFORMANCE WITH SECTION 1.05 CONTROL OF THE WORK.



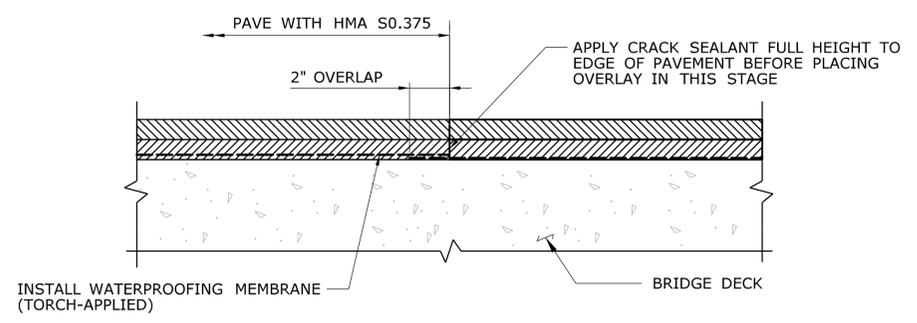
**SECTION: GUTTERLINE AT PAVEMENT CUT-OUT**  
SCALE: N.T.S



**SECTION: INITIAL LONGITUDINAL STAGE CONSTRUCTION**  
**JOINT IN PAVEMENT CUT-OUT**  
SCALE: N.T.S



**SECTION C-C: JOINT TREATMENT AT PARAPET**  
SCALE: N.T.S.



**SECTION: FINAL LONGITUDINAL STAGE CONSTRUCTION**  
**JOINT IN PAVEMENT CUT-OUT**  
SCALE: N.T.S

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: <b>K. CONSTANZER</b> CHECKED BY: <b>M. CROTEAU</b> SCALE AS NOTED	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> Filename: ...03.07_SB_MSH_172_411 STD_DETAILS.dgn	SIGNATURE/BLOCK:  Kleinfelder 2 Wall St., Ste. 450 Manchester, NH 03101-1518	PROJECT TITLE: <b>DISTRICT 2</b> <b>BRIDGE PRESERVATION</b> <b>AT DECK JOINTS</b>	TOWN: <b>NORWICH/LISBON</b> DRAWING TITLE: <b>JOINT DETAILS</b> <b>STANDARD REPAIRS</b>	PROJECT NO. <b>172-411</b> DRAWING NO. <b>S-7</b> SHEET NO. <b>03.07</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/24/2014			