

**ASPHALTIC PLUG TYPE JOINT DETAIL**

**ASPHALTIC PLUG BRIDGE JOINT  
GENERAL NOTES**

**INSTALLATION:**

THE JOINT SHALL BE LOCATED CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.

THE JOINT SHALL BE EXCAVATED AS SHOWN ON THE PLANS BY USE OF SAWS AND PNEUMATIC HAMMER OR A HAMMER AND CHISEL.

THE JOINT AREA SHALL BE BLAST CLEANED OF DEBRIS AND ASPHALT. THE JOINT AREA SHALL BE THOROUGHLY DRIED USING HOT COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.

SPALLED AND DEFECTIVE CONCRETE SHALL BE REPAIRED WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.

PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 25MM (1 INCH) +/- OF BINDER ABOVE THE ROD.

THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.

PLACE 6 MM (1/4 INCH) THICK BY 200 MM (8 INCH) WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER.

A. THE STEEL PLATES MAY BE OMITTED WHERE THE APPROACH SLAB IS COVERED WITH A STONE BASE OR BITUMINOUS PAVEMENT, AND VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.

THE BINDER MATERIAL AND AGGREGATE SHALL BE HEATED AND MIXED AS RECOMMENDED BY THE MANUFACTURER.

THE INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

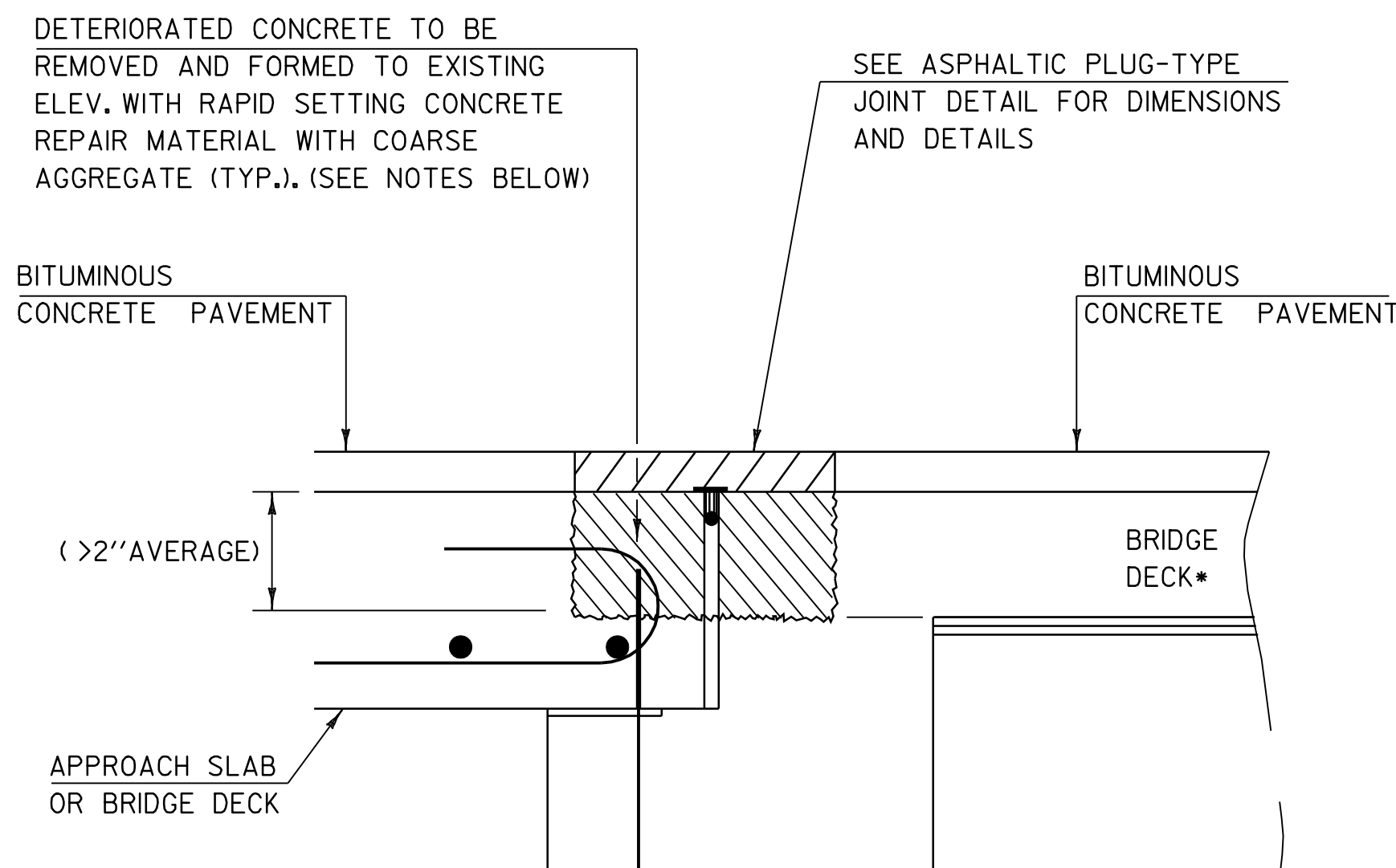
IMMEDIATELY AFTER TOPCOATING, AN ANTI-SKID MATERIAL SHALL BE CAST OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

JOINT SHALL BE PROTECTED FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 52 C +/- (125 F).

**WEATHER LIMITATIONS:**

BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:

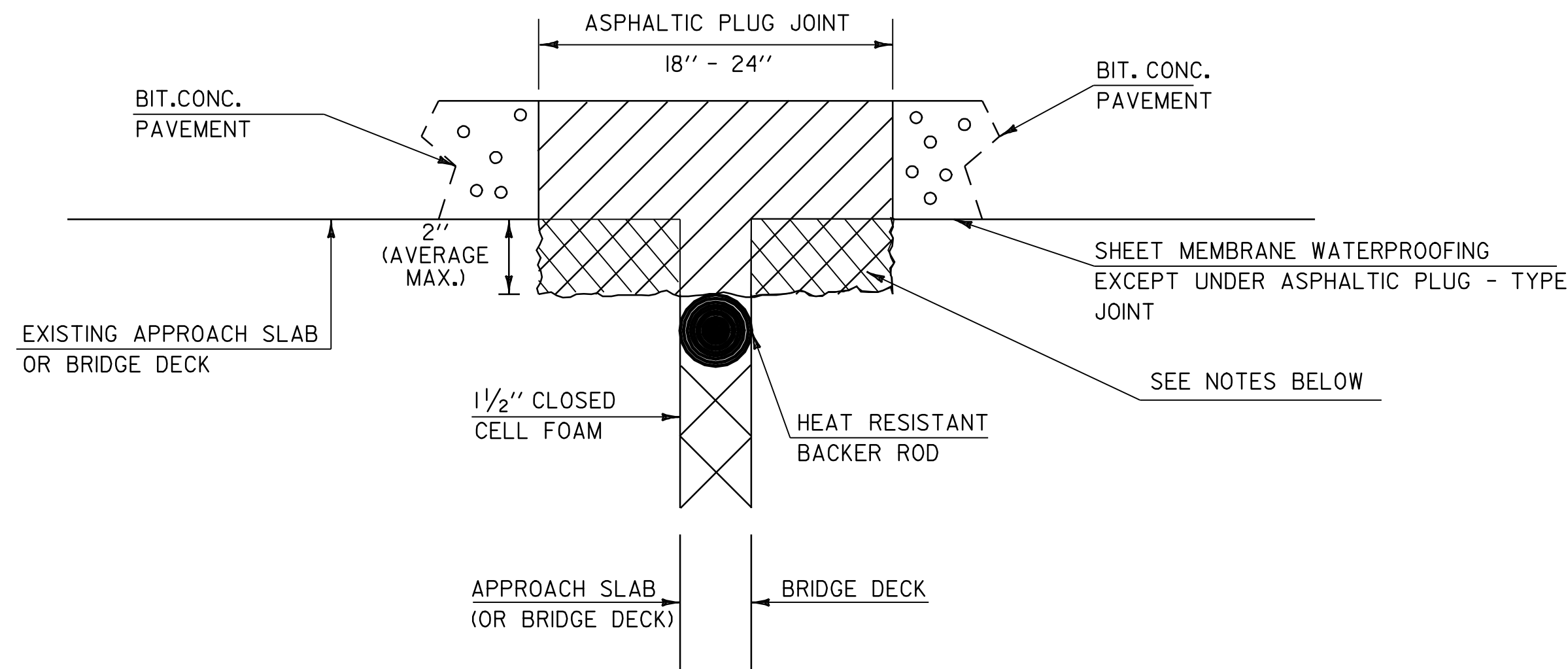
- (A) THE AMBIENT AIR TEMPERATURE IS AT LEAST 10° C (50° F) AND RISING.
- (B) THE ROAD SURFACE IS SUFFICIENTLY DRY.
- (C) WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF THE SATISFACTORY WORK.



**ASPHALTIC PLUG-TYPE JOINT DETAIL  
REMOVAL OF >2\"/>**

**NOTES:**

1. UPON ENCOUNTERING GREATER THAN 2\"/>
2. REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



**ASPHALTIC PLUG-TYPE JOINT DETAIL  
REMOVAL OF <2\"/>**

**NOTES:**

1. UPON ENCOUNTERING UP TO 2\"/>
2. REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

JOINT	STATION	LENGTH	
1	MM 128.869	<del>93'-0"</del>	63'-0"
2	MM 128.909	<del>93'-0"</del>	63'-0"
		BRIDGE #83N	126'-0"

TOTAL LENGTH OF JOINT

**BRIDGE #83N  
ROUTE LOG (MM 128.889)**

JOINT	STATION	LENGTH	
1	MM 132.537	<del>45'-0"</del>	39'-6"
2	MM 132.553	<del>45'-0"</del>	39'-6"
		BRIDGE #90S	79'-0"

TOTAL LENGTH OF JOINT

**BRIDGE #90S  
ROUTE LOG (MM 132.545)**

JOINT	STATION	LENGTH	
1	MM 128.10	<del>37'-0"</del>	37'-0"
2	MM 128.20	<del>37'-0"</del>	37'-0"
		BRIDGE 8IN	74'-0"

TOTAL LENGTH OF JOINT

**BRIDGE 8IN**

**ROUTE LOG (MM 128.15)**

**NOTES:**

1. REFER TO ASPHALTIC PLUG JOINT AND DETAILS. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG".
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A REGULAR BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.

**DETAILS ARE NOT TO SCALE**

**ASPHALTIC  
PLUG JOINT  
AND BRIDGE  
DETAIL SHEET**

PROJECT NAME: WATERFORD - LYNDON  
PROJECT NUMBER: IM SURF(14)

FILE NAME: p08a172.dgn  
PROJECT LEADER: DOMEY  
DESIGNED BY: LSW  
PLOT FILE: p08a172#4.1

PLOT DATE: 18-MAR-2010 15:55  
DRAWN BY: LSW  
CHECKED BY: KML  
SHEET \_\_\_ OF 17