

ASPHALTIC PLUG-TYPE JOINT DETAIL

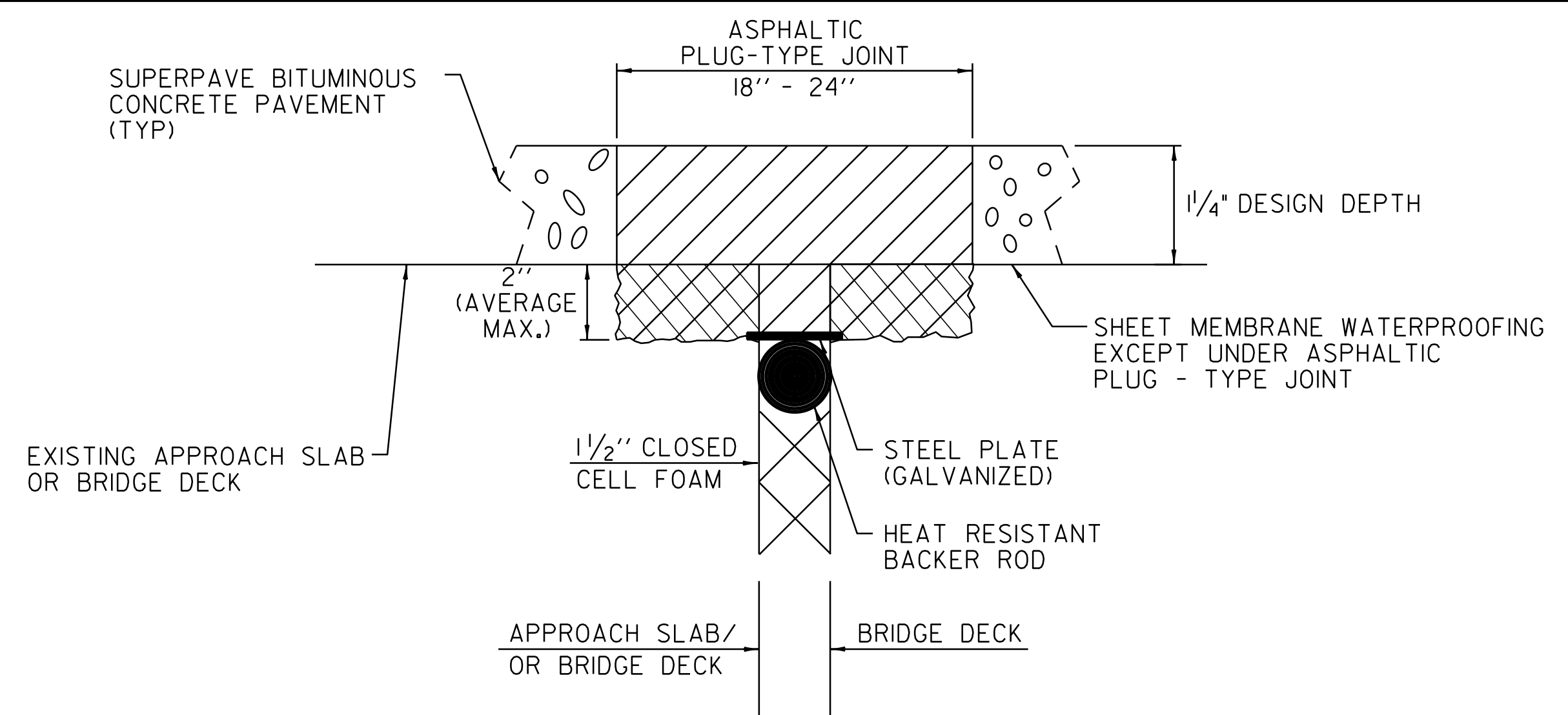
BR 1	U.S. ROUTE 4, FAIR HAVEN	STA 0+56.0 (38'-0" LF)
BR 1	VT. ROUTE 4A, FAIR HAVEN	STA 79+76.0 (33'-4" LF)
BR 1	VT. ROUTE 4A, FAIR HAVEN	STA 80+30.0 (33'-4" LF)
BR 3	VT. ROUTE 4A, CASTLETON	STA 26+50.0 (46'-5" LF)
BR 3	VT. ROUTE 4A, CASTLETON	STA 26+85.0 (46'-5" LF)
BR 4	VT. ROUTE 4A, CASTLETON	STA 116+68.0 (29'-6" LF)
BR 4	VT. ROUTE 4A, CASTLETON	STA 117+94.0 (29'-5" LF)
BR 1	FAIR HAVEN STATE HIGHWAY	STA 18+92.0 (32'-0" LF)
BR 1	FAIR HAVEN STATE HIGHWAY	STA 19+15.0 (32'-7" LF)
BR 1	FAIR HAVEN STATE HIGHWAY	STA 20+86.0 (32'-7" LF)
BR 2	FAIR HAVEN STATE HIGHWAY	STA 22+42.5 (33'-3" LF)
BR 2	FAIR HAVEN STATE HIGHWAY	STA 22+64.0 (33'-6" LF)
BR 2	FAIR HAVEN STATE HIGHWAY	STA 24+32.0 (32'-1" LF)

- NOTES:
- 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 RESIDENT ENGINEER.
 - PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 1 INCH +/- OF BINDER ABOVE THE ROD.
 - THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.
 - PLACE 1/4 INCH THICK BY 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 125°F ±.

WEATHER LIMITATIONS

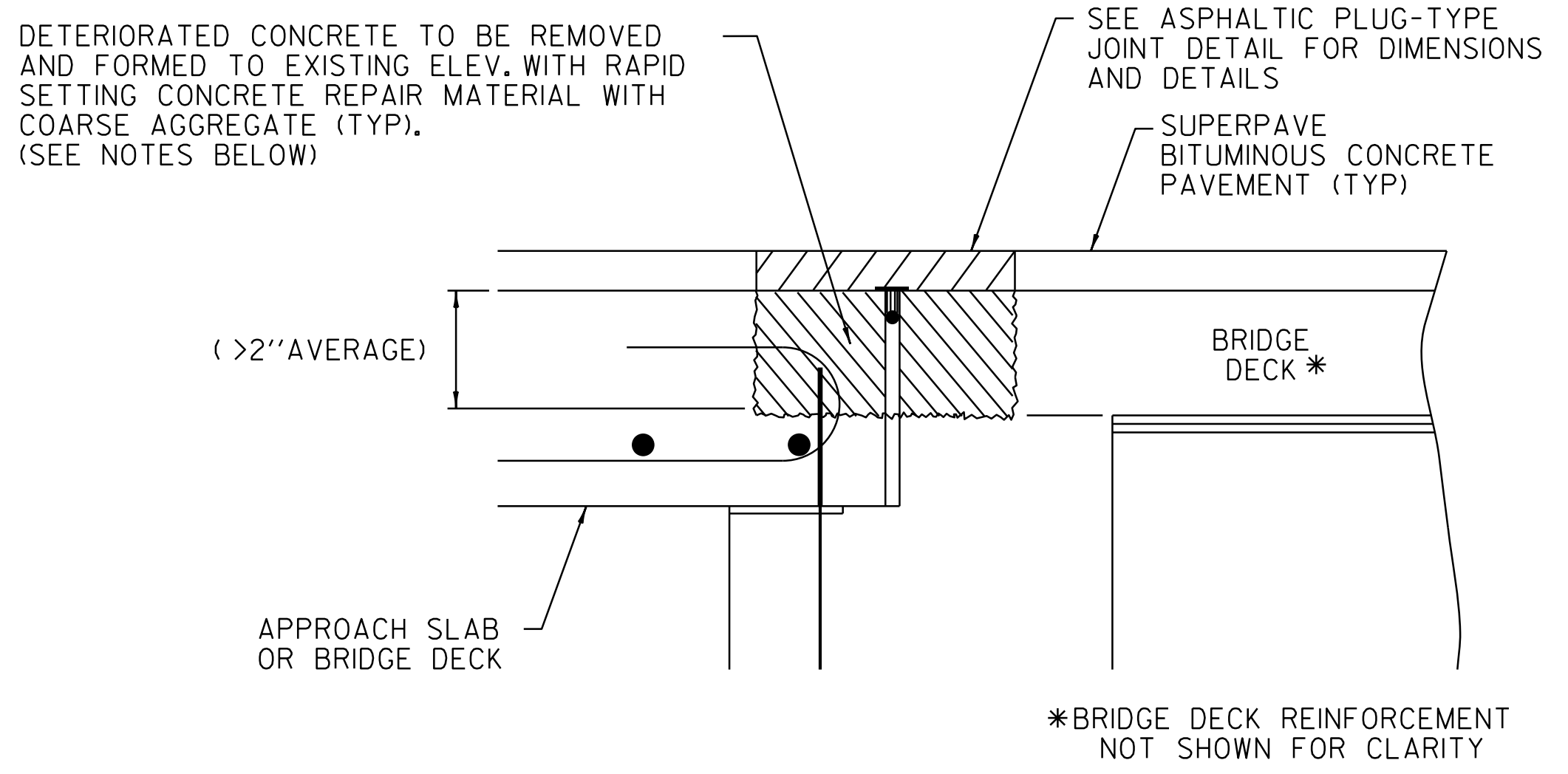
BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:

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



**ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF UP TO
2" DETERIORATED CONCRETE**

- NOTES:
- UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
 - REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH REQUIRED TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
 - 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"
DETERIORATED CONCRETE**

- NOTES:
- UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
 - 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.
 - 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.

NOT TO SCALE

**COMPOSITE
ASPHALTIC
PLUG JOINT
DETAILS
SHEET**

PROJECT NAME:	FAIR HAVEN - CASTLETON & FAIR HAVEN
PROJECT NUMBER:	STP HES 2614(1)S, STP 2615(1)S, NH HES 020-1(21) & STP SRN (004)
FILE NAME:	p06c058.dgn
PLOT DATE:	22-FEB-2012 12:46
PROJECT LEADER:	D.E.G.
DRAWN BY:	C.A.K.
DESIGNED BY:	M.J.M.
CHECKED BY:	D.E.G.
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	SHEET 7 OF 157