

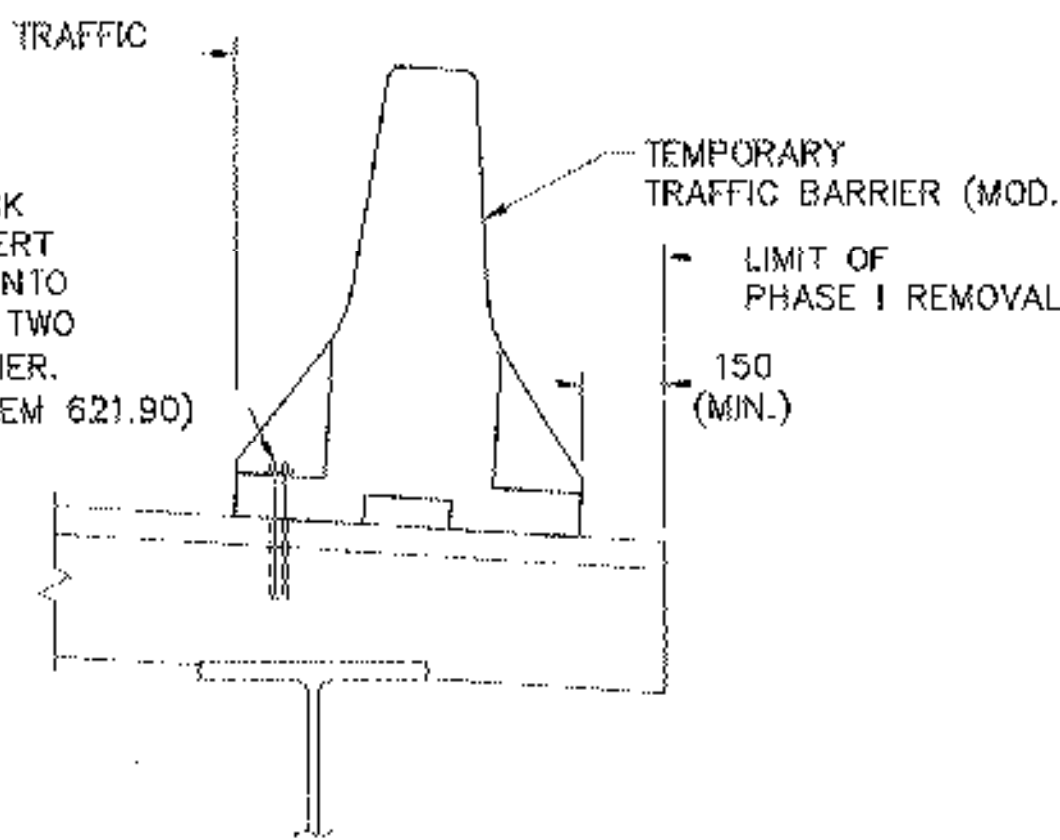
**SUPERSTRUCTURE BRACING**

(BRACING OF EXISTING SUPERSTRUCTURE SHOWN, BRACING OF NEW SUPERSTRUCTURE SIMILAR) N.T.S.

**SUPERSTRUCTURE BRACING NOTES:**

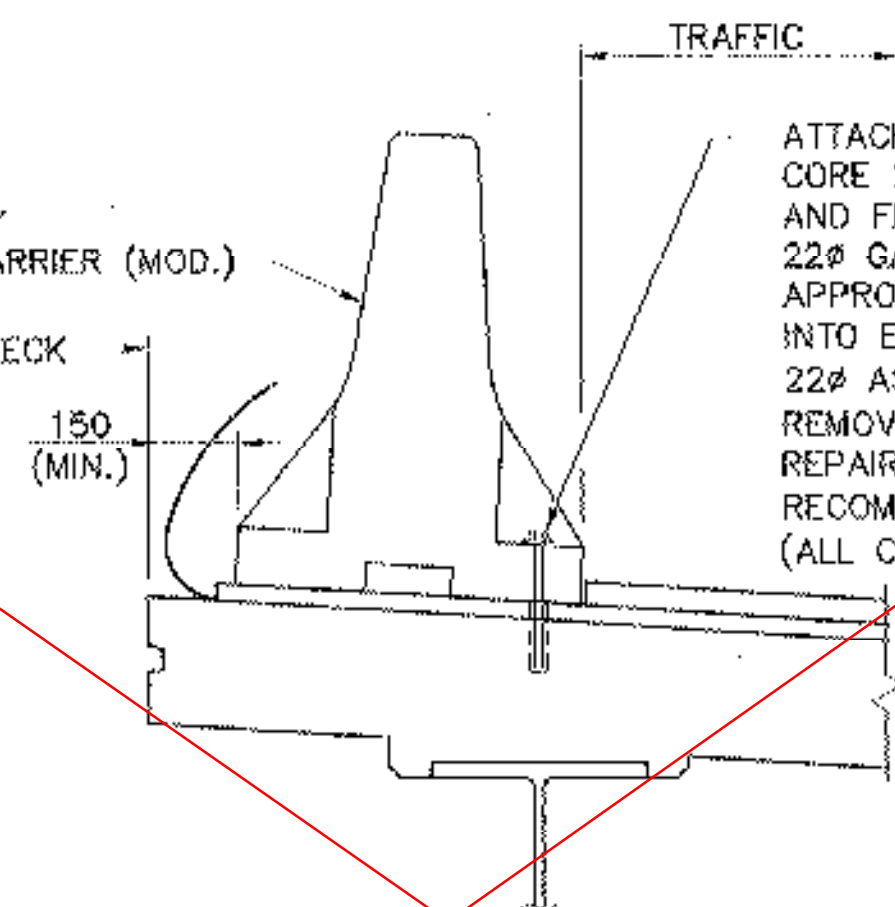
1. SUPERSTRUCTURE BRACING MAY BE REQUIRED AT THE LOCATIONS SHOWN DUE TO PHASED CONSTRUCTION REQUIREMENTS. THE SUPERSTRUCTURE BRACING SHOWN IS CONCEPTUAL AND SCHEMATIC ONLY AND IS NOT INTENDED TO INDICATE A REQUIRED OR PREFERRED METHOD OF CONSTRUCTION. SUPERSTRUCTURE BRACING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY VAOT IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 105.03.
2. ALL COSTS FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF THE SUPERSTRUCTURE BRACING SHALL BE INCLUDED IN ITEM 502.10, SHORING SUPERSTRUCTURE.
3. SUPERSTRUCTURE BRACING SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. THE MINIMUM DESIGN LIVE LOAD SHALL BE AASHTO MS18. THE BRACING SHALL ALSO BE DESIGNED TO PROVIDE ADEQUATE SUPPORT FOR THE PORTABLE CONCRETE BARRIER WHEN THE BARRIER IS SUBJECTED TO THE AASHTO DESIGN RAIL LOAD IN ACCORDANCE WITH AASHTO SECTION 3.14.3.
4. ATTACHMENT OF THE SUPERSTRUCTURE BRACING TO THE EXISTING AND NEW SUPERSTRUCTURES SHALL BE APPROVED BY THE ENGINEER. WELDING TO THE EXISTING OR NEW STEEL WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE STRUCTURES ENGINEER.

ATTACH BARRIER TO EXISTING DECK. CORE 25# HOLE, 100 DEEP INTO DECK AND FILL WITH EPOXY MORTAR. INSERT 22# GALVANIZED THREADED SLEEVE INTO EACH HOLE. SECURE BARRIER WITH TWO 22# ASTM A 490M BOLTS PER BARRIER. (ALL COST SHALL BE INCLUDED IN ITEM 621.90)



**EXISTING DECK DETAIL**

ATTACH BARRIER TO PROPOSED DECK. CORE 25# HOLE, 100 DEEP INTO DECK AND FILL WITH EPOXY MORTAR. INSERT 22# GALVANIZED THREADED SLEEVE AS APPROVED BY THE RESIDENT ENGINEER INTO EACH HOLE. SECURE BARRIER WITH TWO 22# ASTM A 490M BOLTS PER BARRIER. AFTER REMOVING BOLTS, FILL SLEEVES WITH EPOXY MORTAR, REPAIR BARRIER MEMBRANE PER MANUFACTURER'S RECOMMENDATION, AND REPAIR PAVEMENT. (ALL COST SHALL BE INCLUDED IN ITEM 621.90).



**PROPOSED DECK DETAIL**

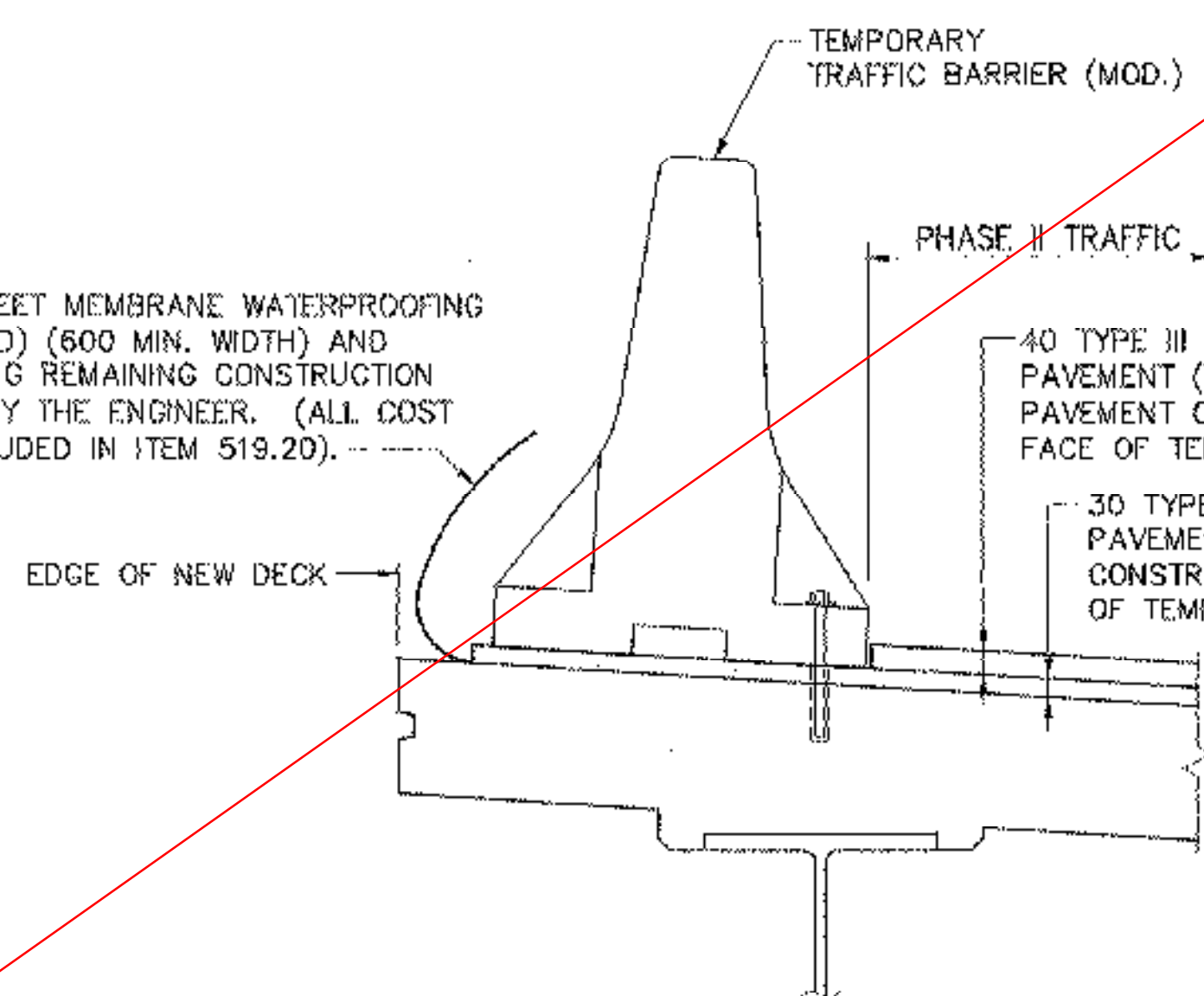
**TEMPORARY TRAFFIC BARRIER ANCHORAGE DETAILS**

N.T.S.

FOLD BACK SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) (600 MIN. WIDTH) AND PROTECT DURING REMAINING CONSTRUCTION AS DIRECTED BY THE ENGINEER. (ALL COST SHALL BE INCLUDED IN ITEM 519.20).

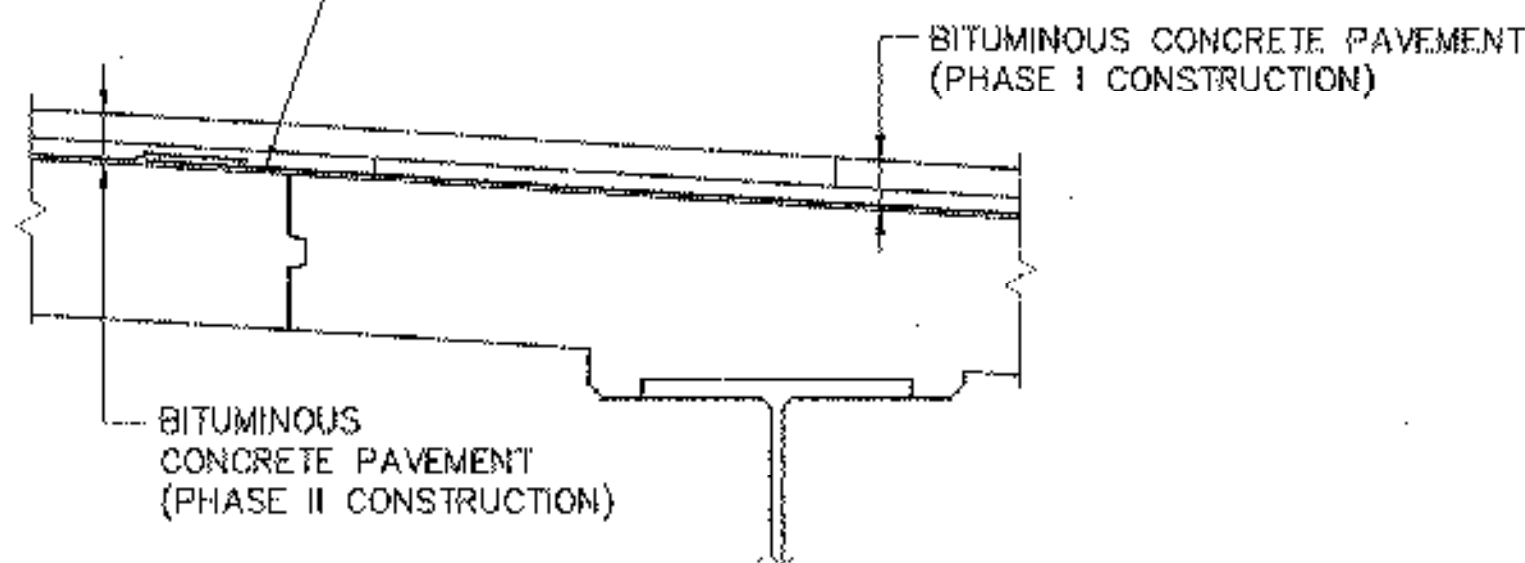
40 TYPE III BITUMINOUS CONCRETE PAVEMENT (TERMINATE PHASE I PAVEMENT CONSTRUCTION AT FRONT FACE OF TEMPORARY TRAFFIC BARRIER)

30 TYPE IV BITUMINOUS CONCRETE PAVEMENT (TERMINATE PHASE I PAVEMENT CONSTRUCTION 75± BEYOND BACK FACE OF TEMPORARY TRAFFIC BARRIER)



**PHASE I**

COMPLETE SHEET MEMBRANE WATERPROOFING (TORCH APPLIED) PHASED CONSTRUCTION JOINT PER MANUFACTURER'S RECOMMENDATION (ALL COST SHALL BE INCLUDED IN ITEM 519.20).



**PHASE II**

**PHASED CONSTRUCTION JOINT DETAILS**

N.T.S.

**BRIDGE CONSTRUCTION PHASING NOTES:**

**GENERAL**

1. TRAFFIC WILL BE MAINTAINED DURING CONSTRUCTION UTILIZING A SINGLE TRAFFIC LANE WITH ALTERNATING EASTBOUND AND WESTBOUND TRAFFIC CONTROLLED BY A TEMPORARY TRAFFIC SIGNAL.
2. ALL CONSTRUCTION SHALL BE COMPLETED USING THE TRAFFIC CONTROL PLAN AND APPROVED TRAFFIC CONTROL PROCEDURES.
3. THE EXISTING AND NEW SUPERSTRUCTURE MAY REQUIRE BRACING.
4. TEMPORARY EXCAVATION SUPPORT MAY BE REQUIRED TO SUPPORT THE ROADWAY EMBANKMENTS AND MAINTAIN TRAFFIC DURING PHASED CONSTRUCTION. ALL COSTS SHALL BE PAID AS ITEM 505.36, TEMPORARY STEEL SHEET PILING. SEE STANDARD SPECIFICATIONS SECTION 505.03 FOR SUBMITTAL REQUIREMENTS.

**PHASE I CONSTRUCTION**

1. MAINTAIN ONE 3590 TRAVEL LANE FOR ALTERNATING EASTBOUND AND WESTBOUND TRAFFIC.
2. INSTALL TRAFFIC CONTROL FOR PHASE I CONSTRUCTION AND INSTALL TEMPORARY SUPERSTRUCTURE BRACING AND TEMPORARY EXCAVATION SUPPORT AS REQUIRED.
3. ROUTE TRAFFIC ONTO THE PHASE I DETOUR.
4. REMOVE PORTIONS OF THE EXISTING BRIDGE AS REQUIRED FOR PHASE I CONSTRUCTION OF THE NEW BRIDGE.
5. CONSTRUCT PHASE I PORTION OF THE NEW SUBSTRUCTURE, SUPERSTRUCTURE, AND APPROACH SLABS.
6. INSTALL TEMPORARY SUPERSTRUCTURE BRACING AND TEMPORARY EXCAVATION SUPPORT FOR PHASE II CONSTRUCTION.

**PHASE II CONSTRUCTION**

1. MAINTAIN ONE 3590 TRAVEL LANE FOR ALTERNATING EASTBOUND AND WESTBOUND TRAFFIC.
2. INSTALL TRAFFIC CONTROL FOR PHASE II CONSTRUCTION AND ROUTE TRAFFIC ONTO THE PHASE II DETOUR.
3. REMOVE PORTIONS OF THE EXISTING BRIDGE AS REQUIRED FOR PHASE II CONSTRUCTION.
4. CONSTRUCT PHASE II PORTION OF THE NEW SUBSTRUCTURE, SUPERSTRUCTURE, AND APPROACH SLABS.

**STATE OF VERMONT AGENCY OF TRANSPORTATION**

Town Of	FAYSTON	Bridge No.	36
Highway No.	VT 17	Log Sta.	
		Surv. Sta.	
VT 17 OVER MILL BROOK			
<b>CONSTRUCTION PHASING (2 OF 2) (N/A)</b>			
Designed By	S.M. SAREAULT	Drawn By	B.J. MASSE
Checked By	M.A. COLGAN	Bridge Design Supervisor	M.A. COLGAN
Date	1/06	Date	1/06
PROJECT	FAYSTON	PROJECT NO.	BHF 0200(9)