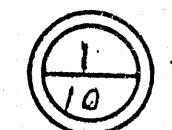
OHIO DEPARTMENT OF TRANSPORTATION.

	PART	COUNTY	ROUTE	SECTIONS	PROJECT TE	ERMINII	NET LENGTH MILES		CITY	VILLAGE
					BEGIN	END		TOWNSHIP		
		IMI	33	UNI-33-08796						
	2	1/1/1		UNI-33-0879 R						
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LOCATION MAP RECEIVED APR 1 6 1992 DISTRICT 6 P&D FHWA REGION STATE FEDERAL PROJECT

5 OHIO



PLAN NO. BR-66-91

The Standard 19 9 | Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.

i hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No.

will be provided by State forces. The closing to traffic of the highways will not be required on Parts No.

and previsions for the maintenance and safety of traffic will be as indicated in the proposal.

Approved

Date 12/17/91 District Deputy Director of Transportation

Approved 2/13/92 Engineer of Bridges

Engineer of Bridges

Approved 2 /19/92

Depity Directors Operations

Date 2-19-92

DIRECTOR, DEPARTMENT OF TRANSPO

Approved
Data _____

Approved
Date ______

Approved
Date ______

Approved
Date _____

- PORTION TO BE IMPROVED

Approved

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

WISION ADMINISTRATOR

STANDARD
DRAWINGS

BR-1 5-29-79 802 4-13-90

MT-95.30 10-10-88 852 G-10-87

BP-5- 10-1-87 952 12-14-88

GR-1.1 5-6-91

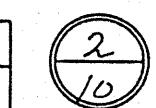
GR-3.1 5-6-91

GR-3.2 5-6-91

GR-3.2 5-6-91

ESTIMATED QUANTITIES SHEET

FHWA REGION	STATE	PROJECT	
5	OHIO	BR-66-91	



ITEM	ITEM EXT. NO.	DESCRIPTION	UNIT PRICE	UNI- 33-0879L	UNI- 33-0879R	TOTAL
202		WEADAN ANDRE DEMANES				
		WEARING COURSE REMOVED	Sq. Yds.	894	1305	2199
404		ASPHALT CONCRETE AC, 20	Cu. Yds.	12	18	30
407	* * *******	TACK COAT	Gal.	21	33	54
517		RAILING FACED, as per plan	Lin. Ft.	339	339	678
606		BRIDGE TERMINAL ASSEMBLY, TYPE 1 as per plan	EACH	2	2	4
614		MAINTAINING TRAFFIC	LUMP	LUMP	LUMP	LUMP
642	·	EDGE LINES TYPE 2 (WHITE)	MILE	.05	.05	.10
642		CENTER LINE TYPE 2 (WHITE)	MILE	.05	.10	.15
624	•	MOBILIZATION	LUMP	LUMP	LUMP	LUMP
802		BARRIER REFLECTOR, TYPE A (WHITE)	EACH	3	3	6
SPECIAL		MICRO-SILICA MODIFIED CONCRETE OVERLAY (1 1/4" THICK) See Proposal Note	Sq. Yds.	685	1000	1685
SPECIAL	·	MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIBLE THICKNESS) See Proposal Note	Cu. Yds.	36	213	213
SPECIAL		FULL DEPTHREPAIR	Cu. Yds.	5		5
SPECIAL		TEST SLAB See Proposal Note	LUMP	LUMP	LUMP	LUMP
SPECIAL		SEALING OF CONCRETE SURFACES (See proposal note)	Sq. Yds.	213	213	426
SPECIAL		EPOXY INJECTION see proposal note	Lin. Ft.		164	164
SPECIAL		SURFACE PREPARATION FOR EPOXY INJECTION, AND FINISHING see proposal note	Lin. Ft.	••••	164	164
606		BRIDGE TERMINAL ASSEMBLY, TYPE 2 as per plan	EACH	1	1	2
SPECIAL		PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR see proposal note	Sq. Ft.		283	283
519		PATCHING CONCRETE STRUCTURES as per plan	Sq. Ft.	40	120	160
802		BARRIER REFLECTOR, TYPE A (WHITE)	EACH	3	3	6
642		EDGE LINES TYPE 2 (YELLOW)	MILE	.05	.05	.10
MACHINE MONTHS COMMISSION OF THE STREET OF T						
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STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6 BRIDGE DEPARTMENT

ESTIMATED QUANTITIES

DESIGN DRAWN CHECKED REVIEWED DATE REVIS

FHWA REGION STATE PROJECT

5 OHIO BR-66-91

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ITEM 517 - RAILING FACED, AS PER PLAN

The Contractor shall carefully remove the existing aluminum railing, the concrete safety curb shall be removed. If diameter holes, 6" deep (Min), shall be drilled at 1'-3" c/c and at 2'-6" c/c as shown on the plans. The holes shall be thoroughly cleaned of all dust and other deleterious material.

The grout shall consist of cement and water using type I, type III, or shrinkage compensating cement. Clean holes shall be saturated thoroughly with water for a minimum of 5 minutes prior to placing grout. Immediately prior to grouting, all free standing water shall be removed from holes. After initial mixing, thinning or retempering of grout with extra water shall not be allowed.

Hardened or set grout which has become too stiff or dry to provide a good bond shall be discarded. Dowels shall not be installed if the mean air or grout temperatures are less than 45 F. Futhermore, after placing, the fresh grout shall be maintained at a temperature of not less than 45 F for 72 hours, and at not less than 40 F for an additional 4 days. The temperature of the mixed grout, immediately before placing, shall be not less than 50 F nor more than 90 F.

The cement grout shall be cured continuosly with wet rags for a minimum period of 3 days without disturbing the dowels.

Grout anchoring using epoxy as per Supplemental Specifications 852 and 952 may be used in lieu of the above requirements with the exception that the hole size diameter shall be 1/8" greater than that of the dowels.

All loose and unsound concrete in the area of the parapet to be faced, shall be removed. All remaining sound concrete shall then be mechanically scarified 1/4" deep. The minimum thickness for the proposed facing shall be 4". All reinforcing steel shall be epoxy coated as per item 509 in the 1989 Construction & Materials Specifications

Epoxy coated reinforcing steel which is damaged due to cutting.

bending, ect. shall be repaired as per item 509.

Concrete cover over all reinforcing steel shall be 2". The concrete surfaces to be faced shall be thoroughly drenched with clean water and allowed to dry to a damp condition just before placing the concrete.

The existing deflection joints shall be extended completely through the proposed facing and shall be made by forming or saw cutting the hardened concrete within 3 days after pouring. The 1/4" joints shall be sealed 3/4" deep (Min.) with an impregnated pre-compressed expanding. foam sealant tape known as "Will-Seal", manufactured by; Illbruck/USA-Inc., Minneapolis, Minn.; a low density, closed cell, crosslinked ethylene vinyl acetate foam known as Evazote 50, manufactured by; E-poxy Industries Inc., Ravena, New York, or E.V.A. as manufactured by Thermal-Clam Inc., Elk Grove, Ill., or an approved equal.

Materials shall be 1 Concrete as per item 511. Class S and, Reinforcing steel as per item 509. All of the above work according to relevent plan notes shall be includes in

the price bid for item 517- Railing Faced, as per plan.

ITEM 202 - WEARING COURSE REMOVED: This item shall include all labor, equipment & incidentals necessary to remove the existing asphalt and latex concrete wearing surface from the bridge decks & approaches as shown

ITEM 519 - PATCHING CONCRETE SURFACES: Work under this item shall consist of patching of pier columns, abutments and deck edge at the direction of the Engineer, as shown on plan sheet no. 8

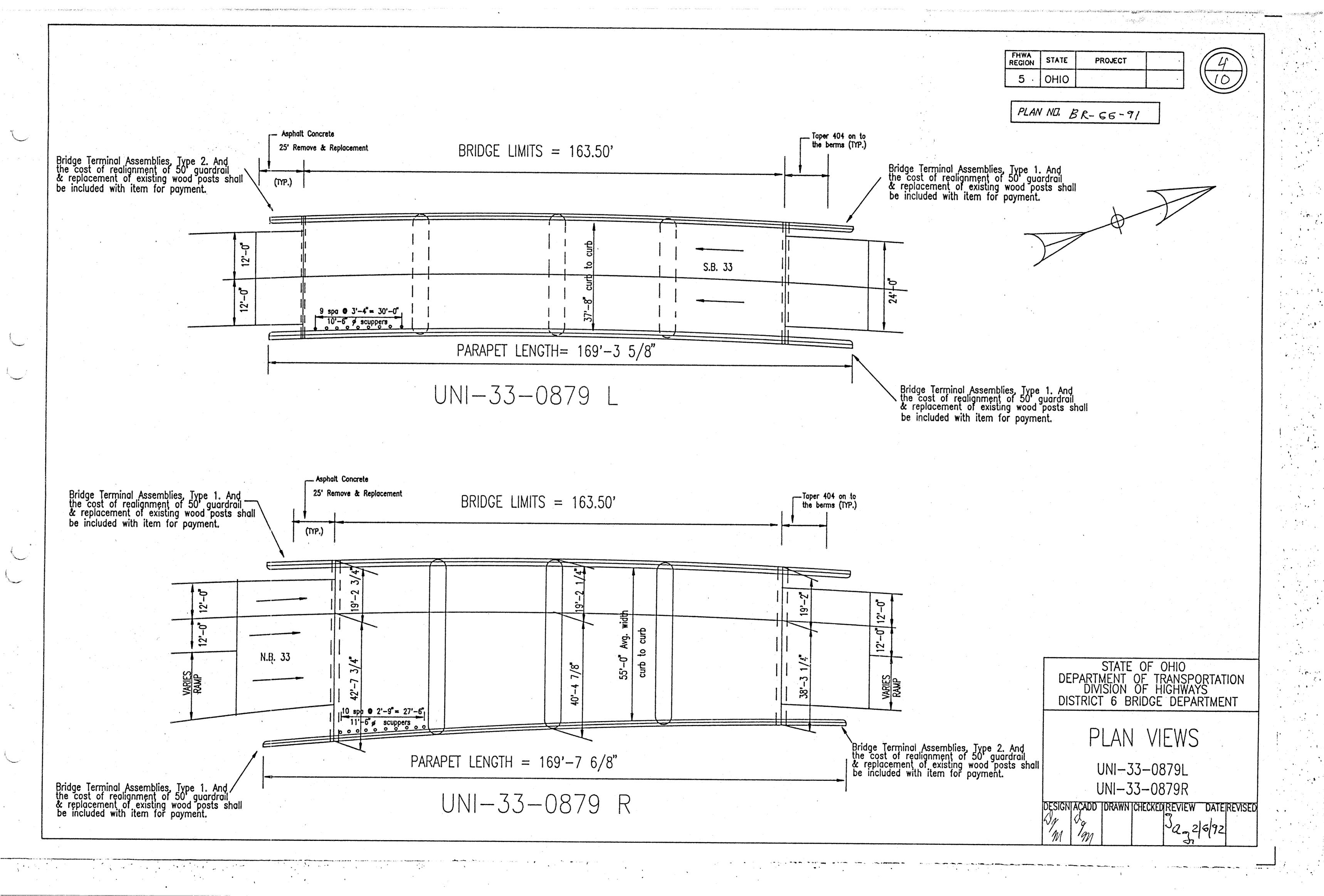
ITEM 614 - MAINTAINING TRAFFIC: Triffic control shall be in accordance with Std. Dwg. MT-95.30 and plan sheet no. 9 for work on US33 and SR245.

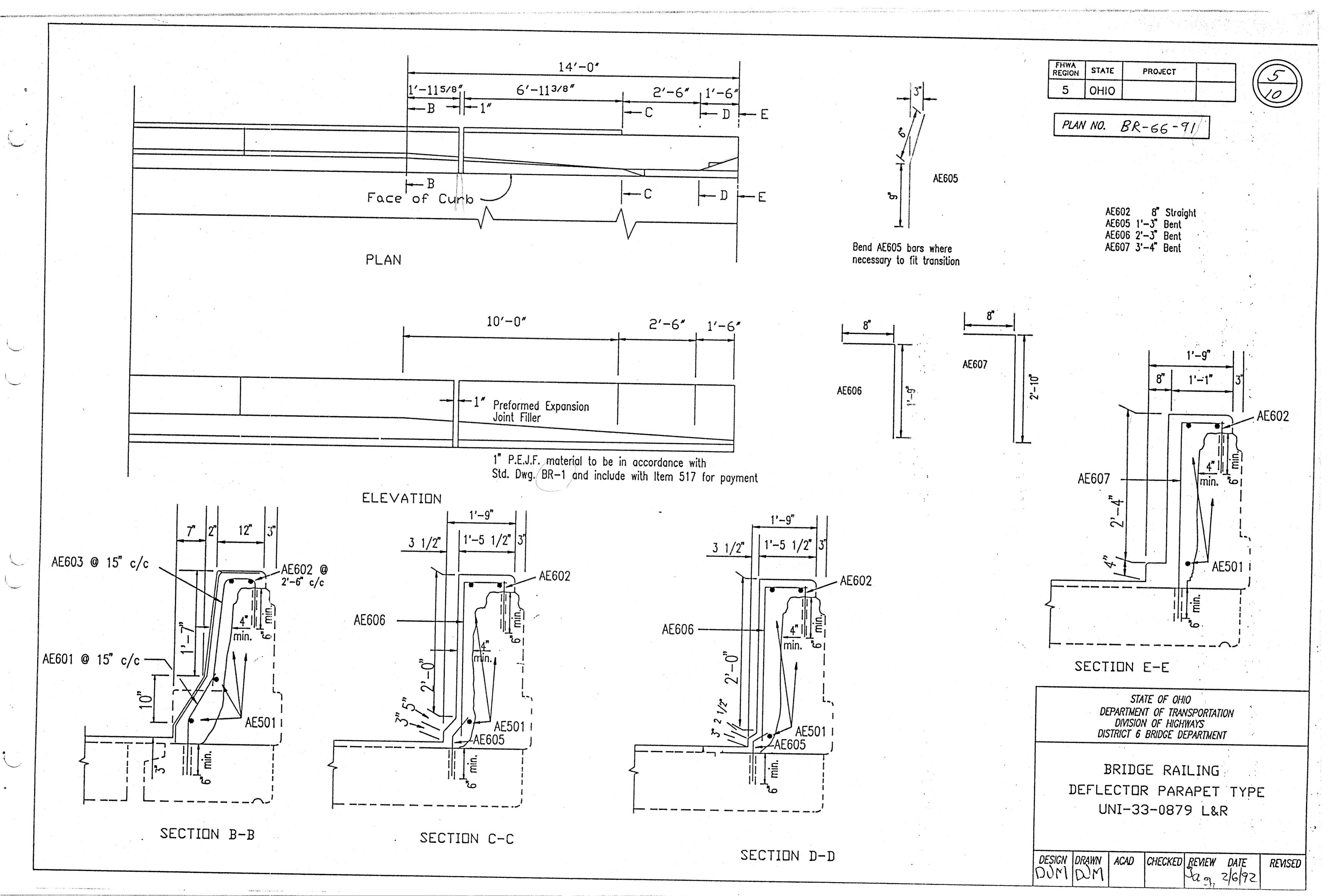
SPECIAL - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR: This item shall be used for overhead patching as shown on plan sheet no. 7 see proposal note.

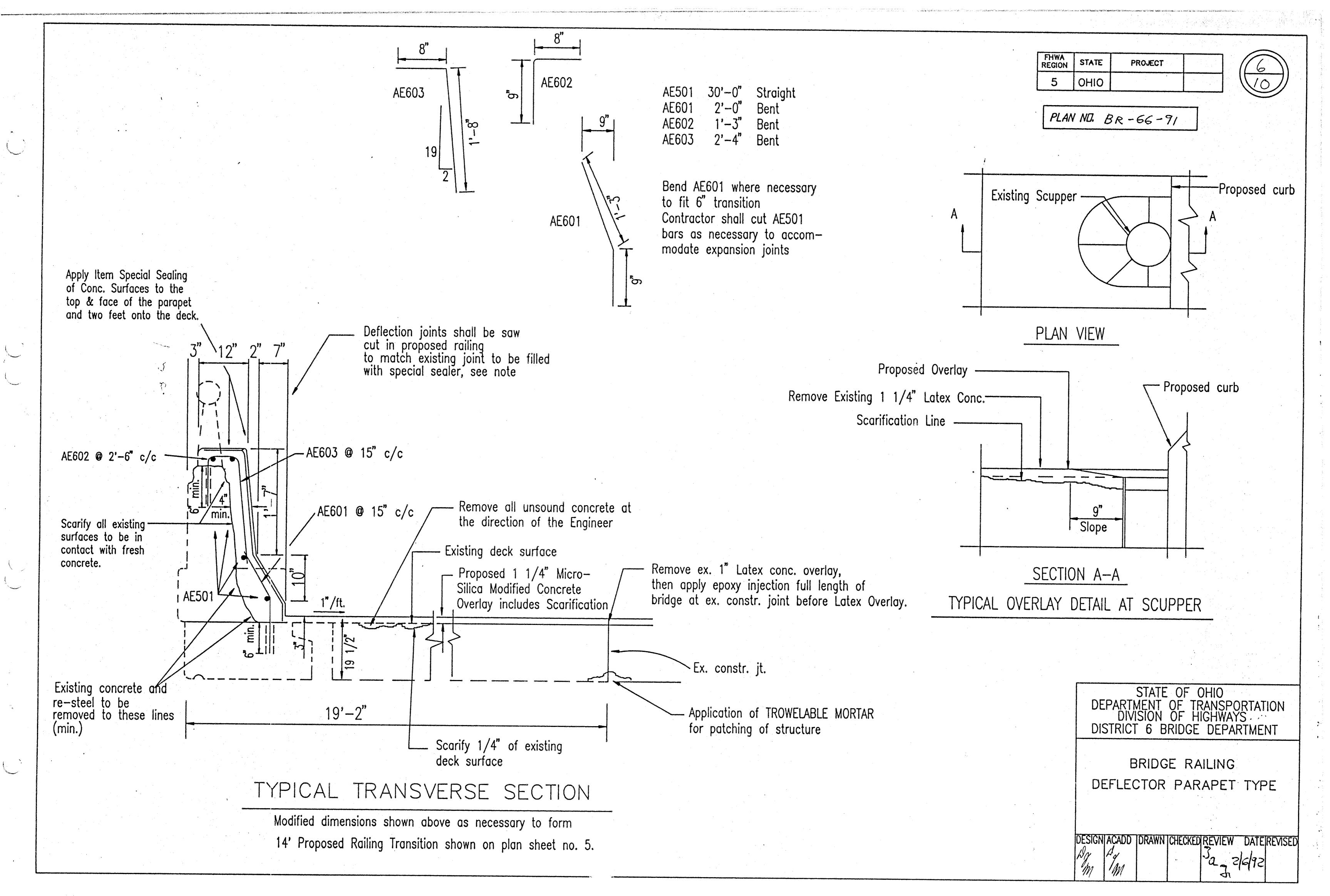
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT SIX BRIDGE DEPARTMENT

GENERAL NOTES

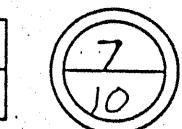
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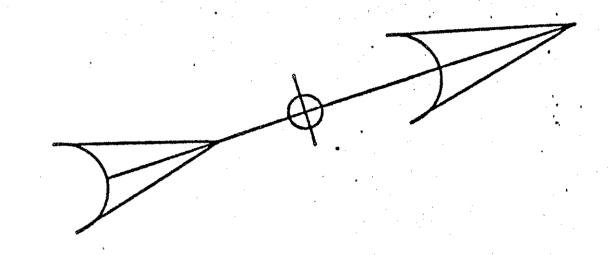


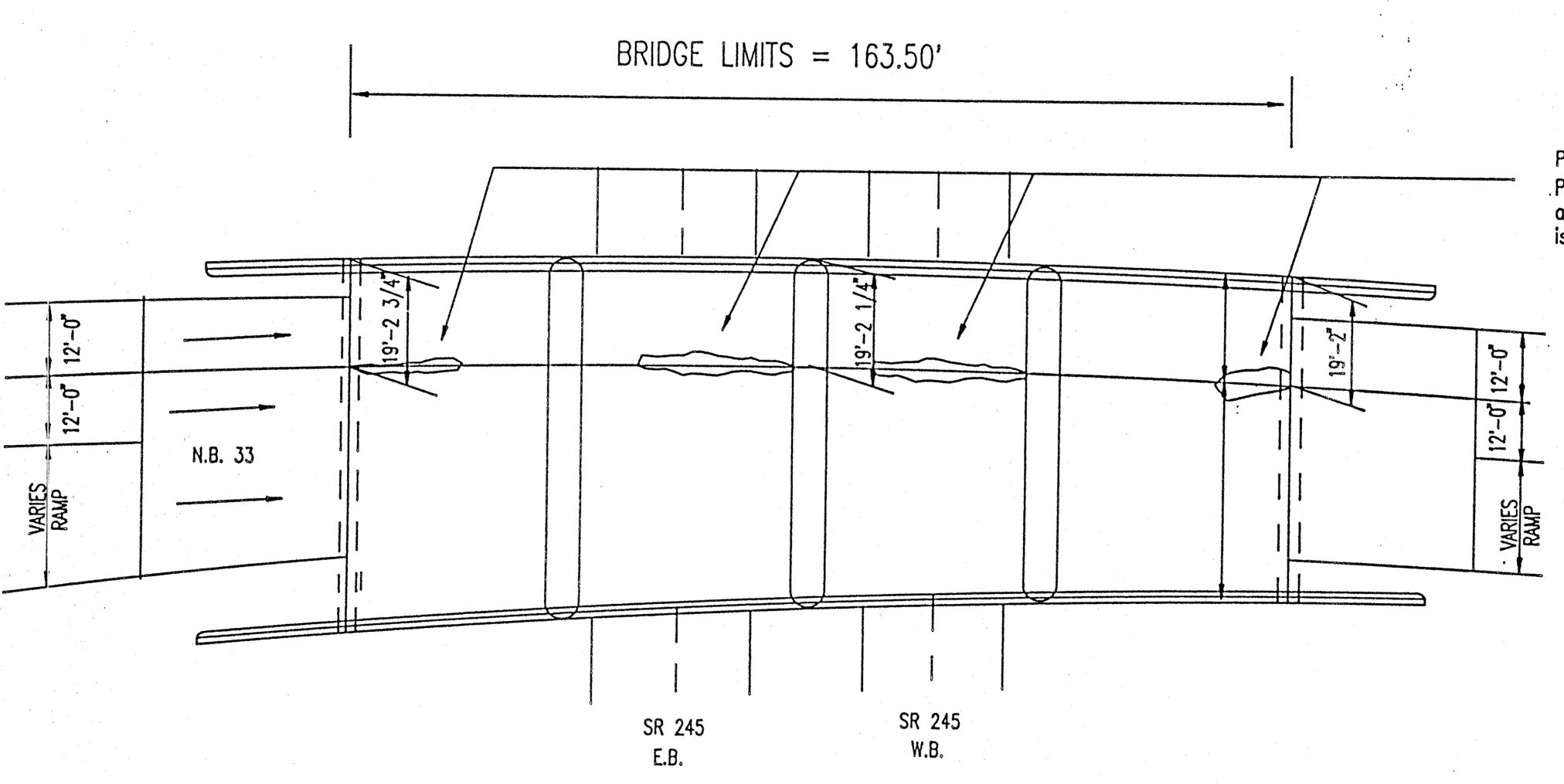


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PLAN NO. BR-66-91





PATCHING CONCRETE WITH TROWELABLE MORTOR:
Patches shown here are bottom side of bridge deck actual patching shall be done after epoxy injection is finish.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6 BRIDGE DEPARTMENT

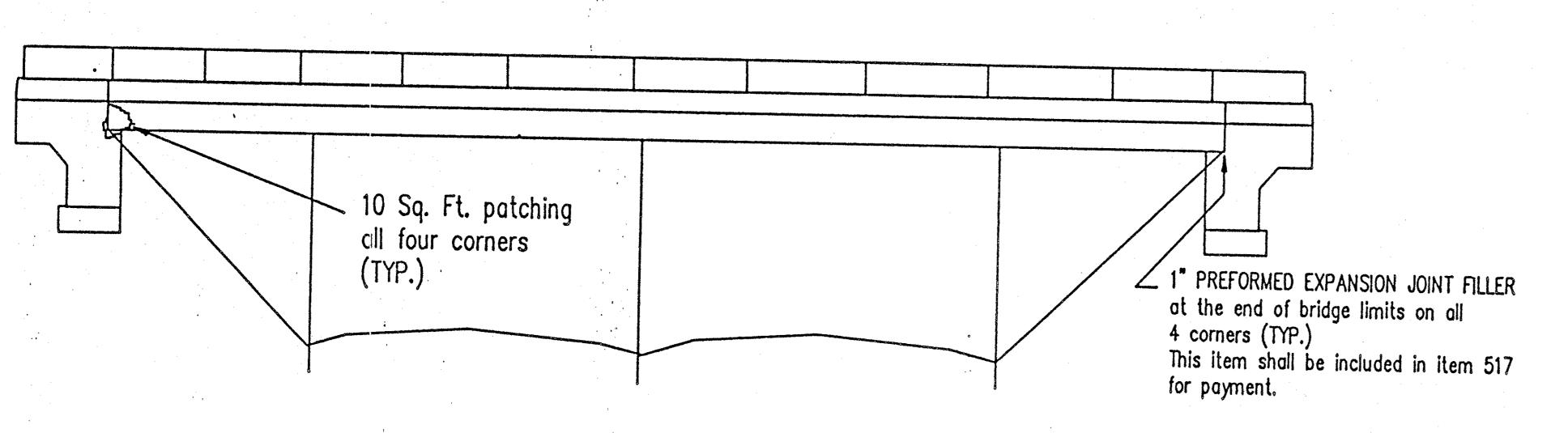
REPAIR DETAILS

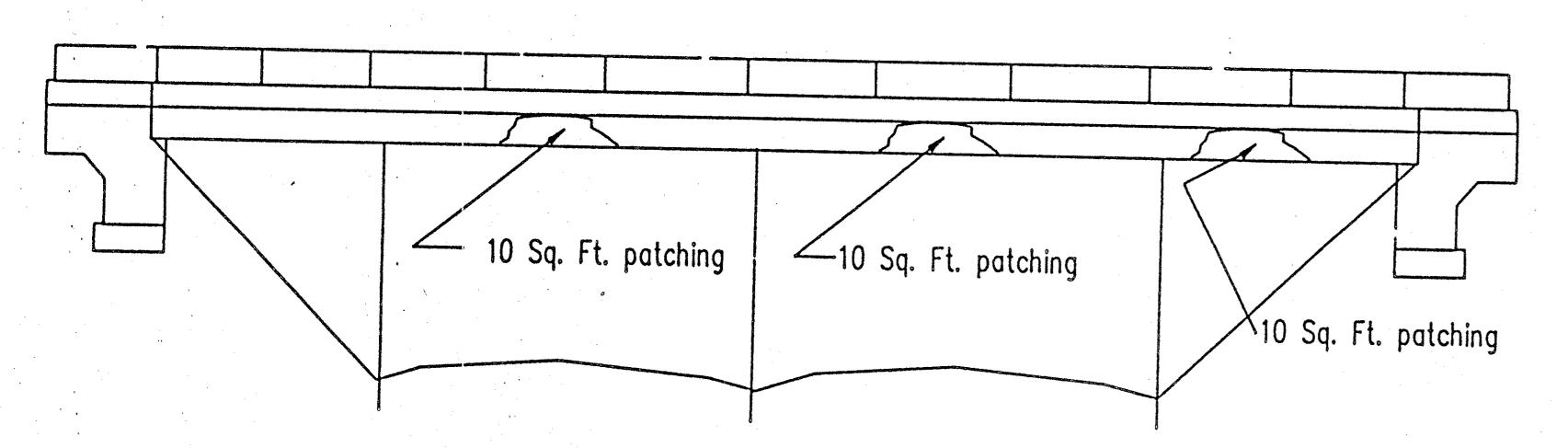
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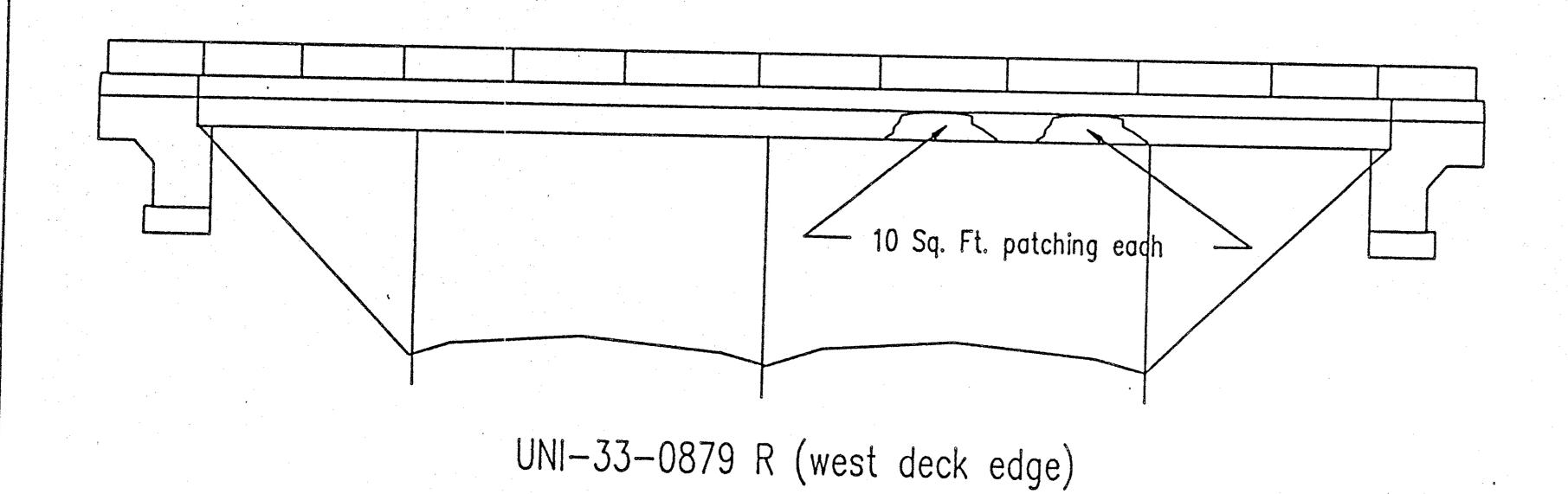
UNI-33-0879 R





UNI-33-0879 L&R (TYP.)

UNI-33-0879 R (east deck edge)



FHWA REGION STATE PROJECT

5 OHIO

8

BRIDGE DECK

PLAN NO. BR - C6 - 91

UNDER UNI-33-0879 R

(NORTH PIER WEST BOUND)

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT SIX BRIDGE DEPARTMENT

PATCHING AREAS

ELEVATIONS & REPAIR
DETAILS
UNI-33-0879 L&R

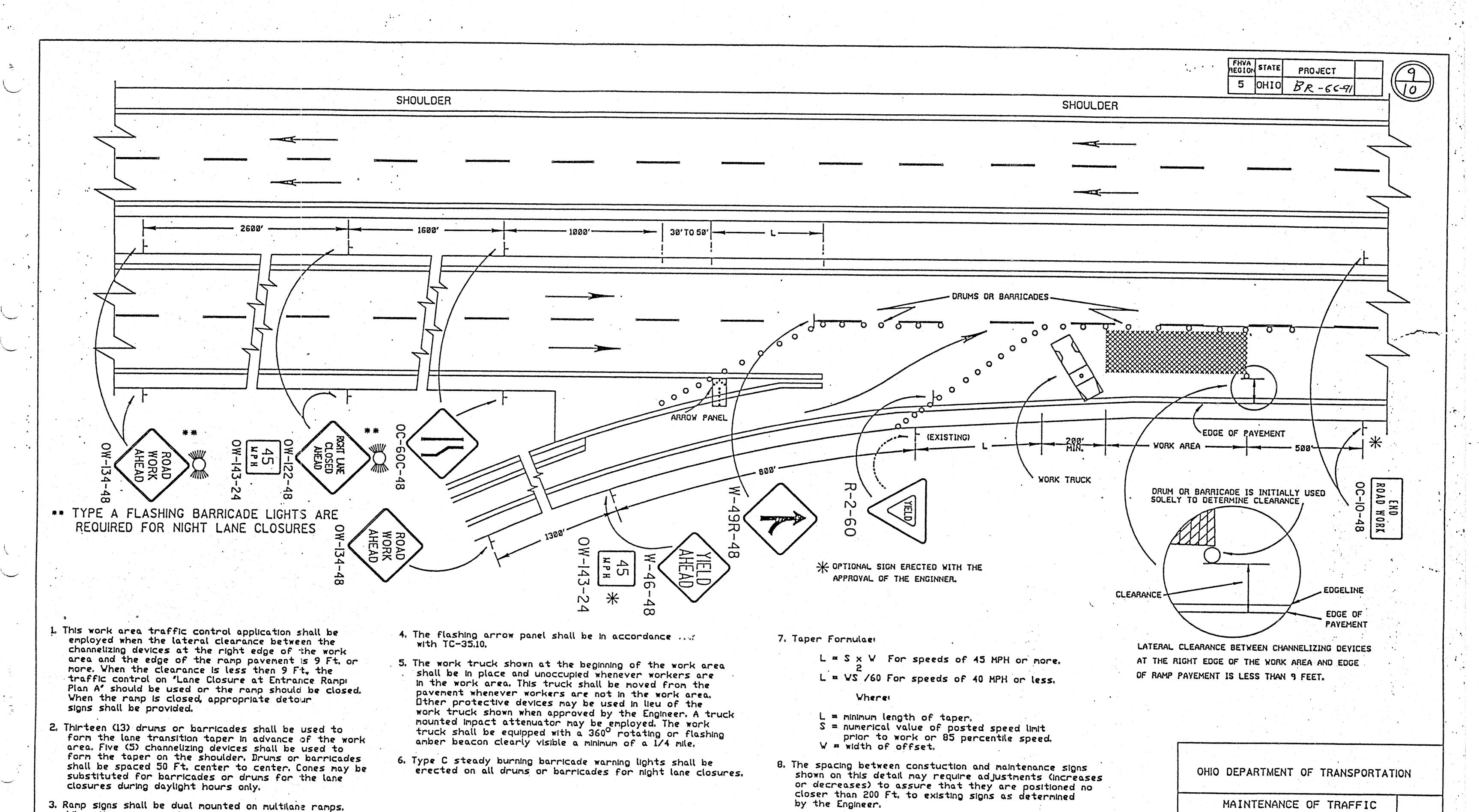
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9. It may be necessary to move the location of an existing

Yield condition. In these cases, the perminanent R-2 sign

a drum with stainless steel strapping material or other

techniques subject to the approval of the Engineer.

installation shall be covered and the temporary installation

shall be mounted upon a drive post which shall be banded to

LANE CLOSURE

PLAN B

AT ENTRANCE RAMP

When the ramp is not long enough to allow placement

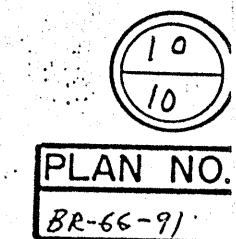
as specified above, the signs may be spaced propor-

tionately within the space available as determined

by the Engineer (a minimum spacing of 200 Ft. must

be maintained).

BARRIER REFLECTOR SUB-SUMMARY



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PART	COUNTY	ROUTE		L.M.	-DE	A C I N	GUARDRAIL REFLECTOR (WHITE)	GUARDRAIL REFLECTOR (YELLOW)	BARRIER REFLECTOR (WHITE)	BARRIER REFLECTOR (YELLOW)	REMARKS
			BEGIN	END		G	EACH	EACH	EACH	EACH	
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