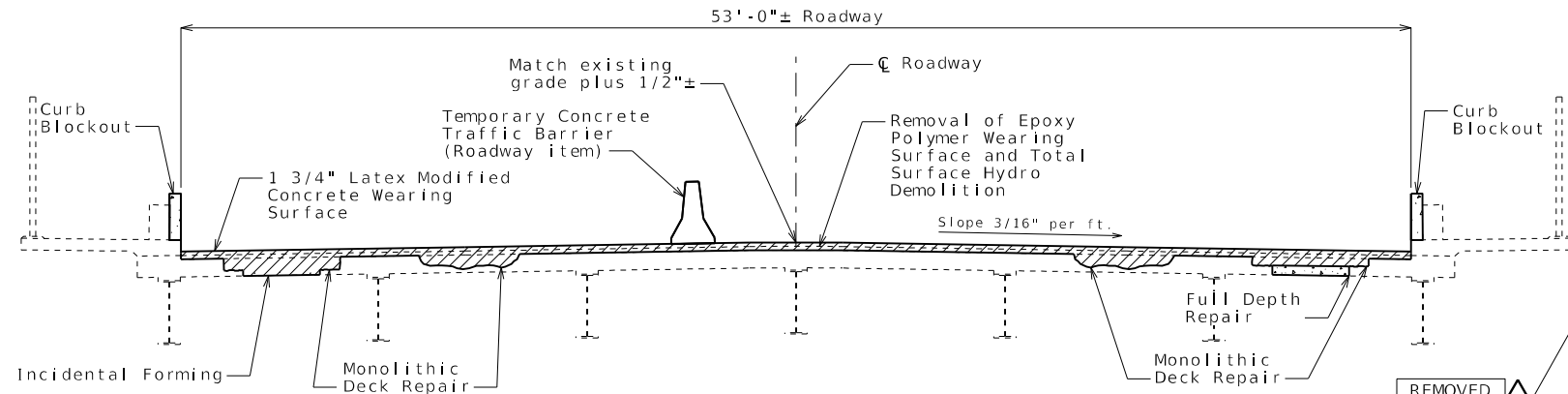
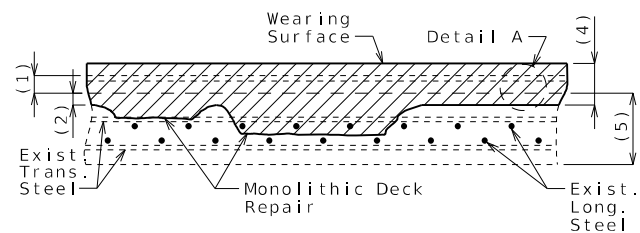


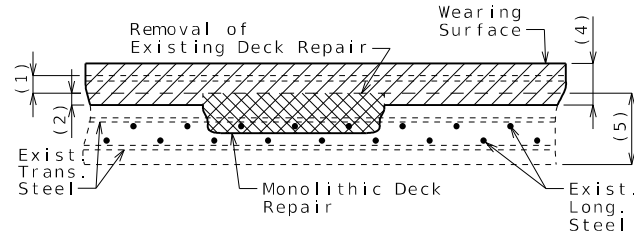
U.I.P. AND REHABILITATE EXISTING (50'-51'-50')(4'-61'-61'-4')(37'-53'-37') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: VARIES)



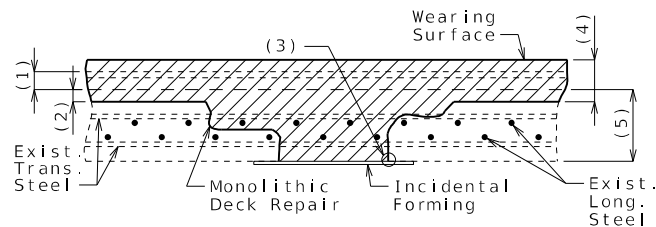
TYPICAL SECTION THRU EXISTING DECK



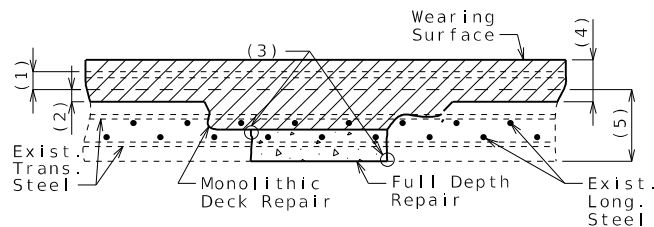
MONOLITHIC DECK REPAIR



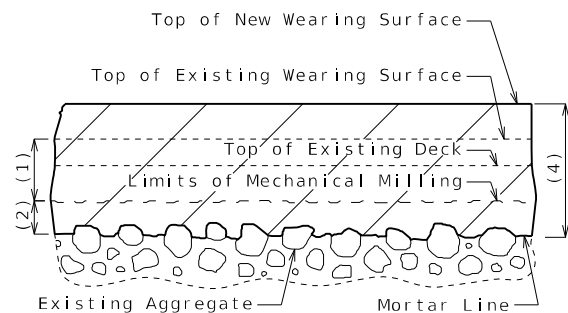
REMOVAL OF EXISTING DECK REPAIR BEFORE HYDRO DEMOLITION



MONOLITHIC DECK REPAIR REQUIRING INCIDENTAL FORMING



MONOLITHIC DECK REPAIR REQUIRING FULL DEPTH REPAIR



DETAIL A

- (1) Removal of existing 1/4"± epoxy polymer wearing surface plus 1/2" of existing deck
- (2) 1/2" minimum total surface hydro demolition of sound concrete, measured to mortar line
- (3) 1" vertical side shall be established outside the deteriorated area.
- (4) 1 3/4" minimum latex modified concrete wearing surface
- (5) Original depth of deck

LATEX MODIFIED CONCRETE DETAILS

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	2,423
Removal of Seal Coat or Polymer Wearing Surface	sq. foot	21,808
Removal of Existing Deck Repair	sq. foot	150
Removal of Existing Expansion Joint & Adjacent Concrete	linear foot	122
* Supplementary Wearing Surface Material	cu. yard	20
Latex Modified Concrete Wearing Surface	sq. yard	2,423
Diamond Grinding	sq. yard	2,423
Class B-2 Concrete	cu. yard	11.7
Curb Blockout	linear foot	823
Substructure Repair (Formed)	sq. foot	180
Substructure Repair (Unformed)	sq. foot	500
Half-Soil Repair	sq. foot	1,200
Full Depth Repair	sq. foot	300
Reinforcing Steel (Epoxy Coated)	pound	760
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Cleaning and Coating Existing Bearings	each	14
Surface Preparation for Recoating Structural Steel	sq. foot	4,200
Field Application of Inorganic Zinc Primer	sq. foot	4,200
Intermediate Field Coat (System G)	sq. foot	4,200
Finish Field Coat (System G)	sq. foot	4,200
Segmental Expansion Joint System	linear foot	122

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 5

Design Loading:

HS20-44 (1973)

Design Unit Stresses:

Class B-2 Concrete (Superstructure) f'c = 4,000 psi

Structural Steel Protective Coating:

Protective Coating: System G in accordance with Sec 1081. All existing structural steel 10' each way from joint including bearings at Int. Bents No. 4 & 6 and all bearings at End Bents No. 1 & 9.

Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System G) with zinc primer. The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat: The cost of the prime coat will be considered completely covered by the contract unit price per sq. foot for Field Application of Zinc Primer. Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

Field Coats: The color of the field coats shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for Intermediate Field Coat (System G). The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for Finish Field Coat (System G).

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before finalizing the shop drawings.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.



REVISED

REPAIRS TO BRIDGE: ROUTE BB OVER CITY STREETS AND BNSF RAILROAD

ROUTE BB FROM ROUTE 63 TO ROUTE 8
ABOUT 0.4 MILES E OF ROUTE 63
BEGINNING STATION 21+32.33± (Match Existing)



DATE PREPARED
12/30/2025

ROUTE BB MO
DISTRICT BR SHEET NO. 1

COUNTY
PHELPS

JOB NO.
JCD0089

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A30802

DESCRIPTION	REMOVED BID ITEM	DATE
		12/30/25

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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