### GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 2. Reinforcement bars designated (E) shall be epoxy coated.
- 3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be around flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Enginee Any cracks that cannot be removed by grinding  $\frac{1}{4}$  inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work
- 5. Concrete Sealer shall be applied to the existing bridge parapets, abutment seats and abutment backwalls. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application. Cost included with Concrete Sealer.
- 6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 7. If the contractor chooses to alter the temporary cantilivered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- 8. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost of Temporary Sheet Pilina.
- 9. Stage construction shall be utilized to maintain traffic during construction.
- 10. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
- 11. Protective Coat shall be applied to the new Latex Concrete Overlay and Concrete Superstructures.
- 12. During visual inspection in June 2009, a gap was noted between the girder and non-composite deck at one isolated location. After reconstruction of the expansion joints, completion of all bridge deck patching, and placement of the Latex Concrete Overlay, the Engineer in the field shall check to see that the top flange of all beams are tight against the slab. If not, the Contractor shall inject epoxy between the concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection". Cost included in Bridge Deck Latex Concrete Overlay,  $2^{I_4}$ ".
- 13. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
  - \*Remove exist, welds and grind smooth, Reposition top bearing plate as shown and field weld in place.
  - \*\* Remove nuts, washers and  ${}^3_4$ " dia. threaded studs and reposition top bearing plate as shown below. Weld  ${}^{l}_2$ " x  ${}^{l}_2$ " x  ${}^{l}_2$ " PL over holes in bottom flange and grind surfaces smooth.
  - \*\*\* D = 'b" per each 100 ft, of expansion for every 15° temp, change from normal temp, of 50°F. Orientation for temp, greater than 50°F is shown. "D" is on opposite side of € Bott. Bearing Assembly for temp, less than 50°F.

DESIGNED	~	MFB	
DESIGNED		MEB	
CHECKED	-	KWS	
DRAWN	-	RMG	
CHECKED		KWS	

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

#### INDEX OF SHEETS

- Ceneral Plan and Elevation General Notes. Bill of Material and Index of Sheets Stage Construction Details
- Temporary Concrete Barrier for Stage Construction
- Bridge Deck, Approach Slab and Parapet Repairs West Bridge Approach Slab Details (1 of 2)
- West Bridge Approach Slab Details (2 of 2)
- Fast Bridge Approach Slab Details (1 of 2) East Bridge Approach Slab Details (2 of 2)
- 10. Expansion Joint Repairs (1 of 2)
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- 13. West Abutment Backwall Repairs 14. East Abutment Backwall Repairs
- Substructure Repairs
- 16. Abutment Stabilization Details Bar Splicer Assembly Details
- 18-25B, Existing Plan Information



(Side retainers not shown for clarity)

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PROPOSED ELEVATION

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BEARING REPAIR BEAMS 12-22

(Jack and Reposition Bearings - 11 thus,

BEARING REPAIR BEAMS 25-26 (Jack and Reposition Bearings - 2 thus,

#### ITEM C. Concrete Bridge Approach Shoulder Pavement Approach Slab Removal ncrete Barrier Removal oncrete Removal otective Shield ructure Excavation oncrete Structures norete Superstructure ridge Deck Grooving otective Coat lack and Reposition Bearings einforcement Bars, Epoxy Coated ar Splicers emporary Sheet Piling Preformed Joint Strip Seal End Sections 12' oncrete Seale eocomposite Wall Drain Pipe Drains 12' Pipe Underdrains for Structures 4" emoving Inlets vpe D Inlet Box, Standard 609001 oncrete Thrust Blocks Removal & Reinstallation of Existing Steel Plate Beam Guar Bridge Deck Latex Concrete Overlay, 2 1/4" Structural Repair of Concrete (Depth Eaual to or Less that Expanded Polystyrene Fill Bridae Deck Hydro-Scarification, 2-1/4 Deck Slab Repair (Full Depth, Type I) Deck Slab Repair (Full Depth, Type II) emporary Shoring and Cribbing Cleaning and Painting Exposed Rebar (Special) ean and Reseal Relief Joint ▲ All excavated materials shall be disposed of within IDOT right-of-way and within the project limits. See the General Notes sheet from the roadway plans for more information.

# BEARING REPAIR NOTES

- <sup>c</sup> the Standard Specifications.
- and Reposition Bearings".
- Engineer Repair or replacement of damaged members shall be at no additional cost to the Department.
- previously in contact with the bearing plates. Surface preparation and primer coat application shall be according to the special provision Cleaning and Painting Existing Steel Structures. top bearing plate. Paint shall be applied per the requirements of Paint System 2, according to the Special Provision "Cleaning and Painting Existing Steel Structures".
- 5. See existing plans for girder numbering.
- 6. The tabulated beam reactions were taken from the existing construction plans. The Contractor shall verify that the

RTI lfred benesch & com benesch <sup>Suney</sup> verlesch <sup>Suney</sup> verlesc SHEET NO. 2 290 25 SHEETS FED

### ABUTMENT BEAM REACTIONS (KIPS)

DEAD	LIVE	IMPACT	TOTAL	
LOAD	LOAD	LOAD		
14.6	34.3	10.3	59.2	

## TOTAL BILL OF MATERIAL

	UNIT	SUPER	SUB	TOTAL	
	Sq. Yd.	54	•	54	
	Sq. Yd.	578		578	
	Foot	56		56	
	Cu. Yd.	28.3	21.9	50.2	
	Sq. Yd.	870		870	
	Cu. Yd.		534	534	
	Cu, Yd,		33.5	33.5	
	Cu. Yd.	261.8		261.8	
	Sq. Yd.	2,064		2,064	
	Sq. Yd.	2,157		2,157 13 65,670 343 313	
	Each	13		13	
	Pound	60,800	4,870	65,670	
	Each	164	179	343	
	Sq. Fl.		313	313	
	Foot	181.0		181.0	
	Each	2		2	
	Sq. Ft.	5,164	1,011	6,175	
	Sq. Yd.		93	93	
	Foot	40		40	
	Foot		184	184	
	Each	2		2	
	Each	2		2	
	Each	2		2	
d Rail, Attached to Structures	Foot	35		2 2 2 35	
	Sq. Yd. 1,510			1,510	
n 5 Inches)	Sq. Ft.		164	164	
	Cu. Yd.		338	338	
	Sq. Yd.	1,510		1,510	
	Sq. Yd.	131.2		131.2	
	Sq. Yd.	164.0		164.0	
	Each		2	-2	
	Sq. Ft.	41		41	
	Foot	128.5		128.5	

1. Existing welds shall be ground smooth and prepared as necessary to perform field welding according to Article 505.04(q)

2. Cost to jack bearings, disconnect the bearing plate from the bottom flange, prepare surfaces, position bearings, field weld and clean, seal and/or paint shall be included with Jack and Reposition Bearings. See Special Provision for "Jack

3. The Contractor shall exercise extreme care not to damage the existing bearing assemblies, bolsters and beams. All damage to existing members that are to remain shall be repaired or the member replaced to the satisfaction of the

4. Prior to reinstallation of the top bearing plates, a primer coat shall be applied to the top (contact) surface of the bearing plates and the portions of the bottom flanges that will either be in contact with the bearing plates or was

Upon completion of welding operations, the affected areas shall be painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam or

quipment used to support the beams is sufficient to carry these loads in addition to any temporary construction loads.

GENERAL NOTES. BILL OF MATERIAL					
AND INDEX OF SHEETS					
STRUCTURE NO. 022-0006					
	CCT				

.I. E.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	60			
90	2009-099 BR			COOK/DUPAGE	309	221	120			
						CONTRACT	NO. 60	0157	10/	
D. R	OAD	DIST.	NO.	ILLINOIS	FED.	FED. AID PROJECT				