- 3. All structural steel shall be AASHTO M 270 Grade 50W, except at flanges over the piers which shall be AASHTO M 270 Grade HPS 70W, as shown in the plans. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 4. No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- 7. If the Contractor elects to use cantilever forming brackets on the exterior girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior girder at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings,
- 9. Concrete Sealer shall be applied to the designated areas of the abutments.
- 10. All structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 11. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 12. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the
- 13. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- 14. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized 15. Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
 - 16. The Contractor is alerted that camber and dead load deflection values shown on the girder detail drawings were developed based on the deck pouring sequence shown in the Contract Drawings. Any deviation from this pouring sequence will result in changes to camber and elevations that reflect dead load deflections. If the Contractor wishes to change the sequence, then the proposed plan revisions and design calculations shall be submitted to the Engineer for review and approval. The plan and calculations shall be prepared and sealed by a Licensed Structural Engineer in Illinois.
 - 17. The erection of the structural steel shall be accomplished by a steel erection contractor or sub-contractor certified as an Advanced Certified Steel Erector (ACSE) by AISC. See special provision for "Erection of Complex Steel Structures".
 - 18. Slipforming of the Parapets is not allowed.
 - 19. In addition to the cofferdam requirements in section 502 of the Standard Specifications, the Contractor shall furnish, install, provide temporary power, and subsequently remove one 180 degree red navigation light on the upstream and downstream sides of each cofferdam adjacent to the navigation channels. The cost is included in Cofferdam (Location-1) and Cofferdam (Location-2).
 - 20. Construction and demolition activities shall be coordinated and approved in writing by the United States Coast Guard (USCG) and the United States Army Corps of Engineers (USACE). No additional compensation or time will be allowed for USCG or USACE restrictions.
 - 21. Maintain existing navigation lights on the existing structures until the existing structures are removed. Proposed navigation light shall be operational before the existing navigational
 - 22. The longitudinal limits of the protective shield on both the EB and WB existing I-270 structures are from CL Pier 1 to CL Pier 4, from CL Pier 5 to CL Pier 6, from CL Pier 7 to CL Pier 10. The existing piers are numbered sequentially from west to east.

The transverse limits of the protective shield are described in the standard specifications.

- 23. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 24. Cofferdam Excavation pay limits are amended in Article 502.12 to "The horizontal dimensions used in computing the volume will not extend beyond vertical planes 8 ft outside of the edges of the pier footings".
- 25. Seal Coat Concrete pay limits are amended in Article 503.21 to "The horizontal dimensions used will be the average measurement from center to center of the interlocks of the sheet piling in opposite walls of the cofferdam, but in no case will these dimensions be taken as more than 8 ft beyond the neat lines of the footing in any direction, except that provision may be made for a sump at one end of the cofferdam if necessary".
- 26. Plans for the existing bridge are available for review at the IDOT District 8 office
- 27. Due to the large volumes of concrete placed in the substructure units of this Contract, excessive heats of hydration may be present. The Contractor is alerted that the provisions of Article 1020.14 (b) of the Standard Specifications may apply in these cases.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	1,264	1,264
Stone Riprap, Class A4	Sq. Yd.	-	1,602	1,602
Filter Fabric	Sq. Yd.	-	1,602	1,602
Removal of Existing Structures	Each	_		2
Slope Wall Removal	Sg. Yd.	-	3,175	3.175
Protective Shield	Sq. Yd.	10,700	-	10,700
Structure Excavation	Cu. Yd.	-	82.6	82.6
Cofferdam Excavation	Cu. Yd.	-	16,671	16,671
Cofferdam (Location-1)	Each	-	1	1
Cofferdam (Location-2)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	7,538.0	7,538.0
Concrete Superstructure	Cu. Yd.	6,469.8	-	6,469.8
Bridge Deck Grooving	Sq. Yd.	19,272	-	19,272
Seal Coat Concrete	Cu. Yd.	-	6,101.2	6,101.2
Protective Coat	Sq. Yd.	23,216	-	23,216
Furnishing and Erecting Structural				
Steel	L. Sum	1	-	1
Furnishing and Erecting Structural				
Steel	Pound	195,000	-	195,000
Stud Shear Connectors	Each	36,090	-	36,090
Reinforcement Bars	Pound		719,170	719,170
Reinforcement Bars, Epoxy Coated	Pound	1,914,170	1,508,510	3,422,68
Bar Splicers	Each	-	172	172
Slopewall 4 Inch	Sq. Yd.		884	884
Furnishing Metal Pile Shells 14"x0.312"	Foot	-	4,527	4.527
Driving Piles	Foot	-	4,527	4,527
Test Pile Metal Shells	Each	-	2	2
Name Plates	Each	1	-	1
Permanent Casing	Foot	-	2,920	2.920
Drilled Shaft in Soil	Cu. Yd.	-	3,058.0	3,058.0
Drilled Shaft in Rock	Cu. Yd.	-	387.2	387.2
Anchor Bolt $1_4''$ dia.	Each	240		240
Anchor Bolt 1½" dia.	Each	160	-	160
Concrete Sealer	Sq. Ft.	-	3,794	3,794
Geocomposite Wall Drain	Sq. Yd.	_	527	527
Pipe Underdrains for Structures, 4''	Foot	-	392	392
Modular Expansion Joint 21"	Foot	176.0	-	176.0
Drainage System	L. Sum	1		1
Drainage Scupper, DS-11	Each	76		76
High Load Multi-Rotation Bearings,				
Fixed, 2,000k	Each	20	-	20
High Load Multi-Rotation Bearings,				
Guided Expansion, 550k	Each	20	-	20
Hiah Load Multi-Rotation Bearings.				
Guided Expansion, 1,700k	Each	20	***	20
IOUIGEG LADGISION, 1.100k			30	30
	Fach)()	
Cross Hole Sonic Logging	Each Each	-		
	Each Each L. Sum		2,512 -	2,512 1

INDEX OF SHEETS

TOTAL DILL	OI IVIT	I LIVE	<u> </u>	
ITEM	UNIT	SUPER	SUB	TOTAL
lar Embankment (Special)	Cu. Yd.	-	1,264	1,264
Class A4	Sq. Yd.	-	1,602	1,602
	Sq. Yd.	-	1,602	1,602
xisting Structures	Each	-		2
moval	Sq. Yd.	-	3,175	3.175
eld	Sq. Yd.	10,700	-	10,700
avation	Cu. Yd.	-	82.6	82.6
cavation	Cu. Yd.	-	16,671	16,671
cation-1)	Each	-	1	1
ocation-2)	Each	-	1	1 1
ctures	Cu. Yd.	-	7,538.0	
erstructure	Cu. Yd.	6,469.8	7,000.0	6,469.8
Grooving	Sq. Yd.	19,272	_	19,272
crete	Cu. Yd.	-	6,101.2	6,101.2
nt	Sq. Yd.	23,216	-	23,216
d Erecting Structural				1
Licening Stractural	L. Sum	1	-	1
d Erecting Structural				
s Erooning Situatural	Pound	195,000	-	195,000
onnectors	Each	36,090	-	36,090
Bars	Pound	J6,090 -	719,170	
Bars, Epoxy Coated	Pound	1,914,170		3,422,680
Dura, Lpuxy Coured	Each	1,314,110	1,508,510	172
nch		-	884	
tal Pile Shells 14"x0.312"	Sq. Yd.	-	4,527	884 4,527
Tai File Sileiis 14 XU.SIZ	Foot Foot	-		
al Chollo			4,527	4,527
al Shells	Each	- 1	2	2
a for	Each	1	- 0.000	1
sing :- C-11	Foot		2,920	2,920
in Soll	Cu. Yd.	-	3,058.0	
in Rock	Cu. Yd.	-	387.2	387.2
l ₄ " dia.	Each	240	-	240
l ₂ " dia.	Each	160	-	160
ler	Sq. Ft.	-	3,794	3,794
Wall Drain	Sq. Yd.	-	527	527
ins for Structures, 4''	Foot	-	392	392
nsion Joint 21"	Foot	176.0	-	176.0
em	L. Sum	1	-	1
pper, DS-11	Each	76		76
lti-Rotation Bearings,	Each	20	_	20
	Lucii	20		
ti-Rotation Bearings,	Each	20	_	20
sion, 550k	Lucii	20		20
ti-Rotation Bearings,	Each	20		20
sion, 1,700k	Each	20	_	20
onic Logging	Each	-	30	30
plicers	Each	-	2,512	2,512
The state of the s	L. Sum	1	-	1
	1 - 00111	L		<u> </u>

STATION 1201+92.25 BUILT BY STATE OF ILLINOIS F.A.I. RT. 270 SEC. 60-1B-1 LOADING HL-93 STRUCTURE NO. 060-0345

NAME PLATE

HDR ENGINEERING. INC.

USER NAME = jmigus	DESIGNED - BWC	REVISED - LGP 4/20/2011
FILE NAME = 0600345-76A91-003-GNN.DGN	CHECKED - LGP	REVISED -
PLOT SCALE = NONE	DRAWN - JM	REVISED -
PLOT DATE = 3/18/2011	CHECKED - BSK	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **GENERAL NOTES AND BILL OF MATERIAL STRUCTURE NO. 060-0345** BRIDGE SHEET NO. 3 OF 133 SHEETS

SECTION 270 MADISON 712 382 CONTRACT NO. 76A91

See Std. 515001