

REV. 6/21/21 REV. 6/10/21

SHEETS

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### COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. There are no commitments for this project.

## **PROPERTY OWNER ACCESS REQUIREMENTS**

Access must be maintaned to all properties durin construction per Article 107.09 unless arrangements are made in writing by the contractor with the property owners with a copy of the Engineer for short-term closures.

## ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (termporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Borrow Site Review)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

**ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS** 

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

# **PROJECT SPECIFIC NOTES**

PIPE DRAINS

The labor and materials necessary to connect proposed Pipe Drains to the existing structures shall not be paid for separately but shall be considered included in the cost of Pipe Drains of the size specified.

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efaul pw	USER NAME = \$USERS	DESIGNED -	REVISED -						F.A.S.	SECTION	COUNTY	TOTAL SHEET SHEETS NO
L: DK		DRAWN -	REVISED -	STATE OF ILLINOIS	GENERAL NOTES AND PROJECT SPECIFIC NOTES		OTES	220	(23-BR)BJR,BP,BRR	MERCER	23 2	
E N P	PLOT SCALE = 1:100	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT	NO. 68F78
2.5	PLOT DATE = 5/5/2021	DATE -	REVISED -		SCALE: SHEET I	1 OF 1 SHEE	TS STA.	TO STA.		ILLINOIS FED. /	ID PROJECT	

				CONSTR. COL 80% FEDERA
				20% FEDERA
				BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	
			-	
28100830	STONE DUMPED RIPRAP, CLASS B4	TON	93	93
28200200	FILTER FABRIC	SQ YD	132	132
50102400	CONCRETE REMOVAL	CU YD	9.9	9.9
50104650	SLOPE WALL REMOVAL	SQ YD	62.2	62.2
50105220	PIPE CULVERT REMOVAL	FOOT	124	124
		ī		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.8	9.8
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3250	3250
Z0010501	SUSANING AND DAINTING STEEL DRIDGE NO 1			
20010501	CLEANING AND PAINTING STEEL BRIDGE, NO.1	L SUM	1	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1625	1625
50800515	BAR SPLICERS	EACH	32	32
50000515		LACIT	52	20
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68	68
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	12
52100520	ANCHOR BOLTS, 1"	EACH	24	24

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AME D		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES		220	(23-BR)BJR.BP.BRR	MERCER	23 3			
DODE!	PLOT SCALE = 1:100	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					1			CONTRAC	T NO. 68F78
32	PLOT DATE = 5/6/2021	DATE	REVISED +		SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.		TO STA.		ILLINOIS FED. A	D PROJECT			

					CONSTR. CODE
					80% FEDERAL
					20% STATE
					BRIDGE
	CODE			TOTAL	0047
	NO.	ITEM	UNIT	QUANTITY	066-0007
_					
	60100945	PIPE DRAINS 12"	FOOT	24	24
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	575	575
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
	63200310	GUARDRAIL REMOVAL	FOOT	885	885
	67100100	MOBILIZATION	L SUM	1	1
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
_					
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
			_		
	70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1400	1400
_	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	584	584
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375

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ODE N	PLOT SCALE = 1:100	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								<u> </u>		CONTRACT	T NO. 68F78
22	PLOT DATE = 5/6/2021	DATE	REVISED +		SCALE:	SHEET 2	OF	3 5	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	

					CONSTR. CODE
					80% FEDERAL
					20% STATE
					BRIDGE
	CODE			TOTAL	0047
	NO.	ITEM	UNIT	QUANTITY	066-0007
1	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375
		IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST		-	
-	70600250	LEVEL 3	EACH	2	2
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST	EACH	2	2
	70000350	LEVEL 3	LACIT	2	2
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1630	1630
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10
	X2810128	STONE RIPRAP, CLASS B4 (SPECIAL)	SQ YD	70	70
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	134	134
	20001002		1011	134	
-	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	33	33
	Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	19	19
	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES, NO. 1	L SUM	1	1
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efault.	USER NAME - \$USER\$	DESIGNED -	REVISED -		1			F.A.S.	SECTION	COUNTY	TOTAL SHEET
AME		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES		220	(23-BR)BJR.BP.BRR	MERCER	23 5	
DODE!	PLOT SCALE = 1:100	CHECKED .	REVISED -	DEPARTMENT OF TRANSPORTATION					, , , , ,	CONTRACT	T NO. 68F78
22	PLOT DATE = 5/6/2021	DATE	REVISED +		SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.		TO STA.		ILLINOIS FED. /	AID PROJECT	

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MOBILI	ZATION	
LOCATION	L SUM	
JOBSITE	1	
		_

CHANGEABLE I	MESSAGE SIGN	
LOCATION	CAL DAYS	
JOBSITE	14	
TWO SIGNS AT 7 DAYS EAC	TH IN ADVANCE OF PROJECT	START

			TRAFFIC	CONTROL & PROT	ECTION			
	TC&P, STANDARD 701 <u>201</u>	TC&P, STANDARD 701321	TEMPORARY CONCRETE BARRIER	TEMPORARY BRIDGE TRAFFIC SIGNALS		IMPACT ATTN, TEMPORARY (NON- REDIRECTIVE) TL3	RELOCATE TCB	RELOCATE IMPACT ATTENUATORS
LOCATION	L SUM	L SUM	FT	EACH	EACH	EACH	FT	EACH
IL ROUTE 94	1	1	375	1	6	2	375	2

PAVEMENT M	ARKING BLACKOUT	TAPE	
LOCATION	MARKING TYPE	5"	SHORT TERM PAVT MARKING REMOVAL
		FOOT	SQ FT
STA 257+60.63 TO 258+20.63	NO PASSING	60	25
STA 257+60.63 TO 264+55.22	SKIP DASH CL	180	75.0
STA 258+20.63 TO 264+45.31	EDGELINE (STAGE 1)	625	260.5
STA 258+50.87 TO 263+85.23	EDGELINE (STAGE 2)	535	223.0
TOTAL		1400	584

PAVEMENT MARKIN	IGS SCHI	EDULE					
		PAINT PAVEMENT MARKING					
LOCATION	LENGTH	4 INCH					
LOCATION	LENGTH	SOLID	SOLID	SKIP DASH			
		WHITE	YELLOW	YELLOW			
STATION	FOOT	FOOT	гоот	гоот			
STA 257+60.63 TO STA 264+55.22 RT/LT	695	1390					
STA 257+60.63 TO STA 264+55.22	695		60	180			
TOTAL			1630				

SO	SOUTHWEST SLOPEWALL TREATMENT							PIPE	PIPE	STONE		SLOPEWALL
ngth	Width	SLOPEWALL REMOVAL	FILTER FABRIC	STONE DUMPED RIPRAP B4	SLOPEWALL SLURRY PUMPING		LOCATION	CULVERT	DRAIN 12"	RIPRAP, CLASS B4 (SPECIAL)	FILTER FABRIC	SLUBBY
					1 Olin ING			FT	FT	SQ YD	SQ YD	CU YDS
T	FT	SQ YD	SQ YD	TON	CU YD		SW Approach	44	6	16.7	16.7	-
28	20	62.2	62.2	93.3	9		SE Approach	37	6	24.7	24.7	-
							NW Approach	24	6	16	16	3.33
							NE Approach	19	6	12.7	12.7	6.67
							TOTAL	124	24	70.1	70.1	10.00

				PROP	OSED GUARDRA	ALL SCHEDU	F			
LOCATION				LENGTH OF NFFD	SPBGR TY A 6FT POSTS	TR BAR TRM TY 1 SPL TAN	TR BAR TRM TY6	GUARDRAIL AGG EROS CONTROL	GUARDRAIL RFF TY A	TERMINAL MARKER - DA
STA.	TO	STA.	LT/RT	FT	FT	EACH	EACH	TON	EACH	EACH
258+71.4	TO	260+46.4	LT	158.5	100	1	1	27	2	1
257+83.9	то	260+46.4	RT	250	187.5	1	1	40	3	1
261+89.3	TO	264+51.8	LT	250	187.5	1	1	40	3	1
261+89.3	TO	263+64.3	RT	158.5	100	1	1	27	2	1
	тот	ΓA L		817	575	4	4	134	10	4

GUARDRAIL REMOVAL SCHEDULE									
	GUARDRAIL REMOVAL								
				REMOVAL					
STA.	ТО	STA.	LT/RT	FT					
258+76	TO	260+53.5	LT	177.5					
257+88.5	TO	260+53.5	RT	265					
261+83	TO	264+48	LT	265					
261+83	TO	263+60.5	RT	177.5					
	885								

\*LENGTH OF NEED MEASURED FROM END OF PARAPET

Length Width

FT

28

LOCATION

SW Slopewall

taut:		USER NAME = \$USERS	DESIGNED -	REVISED -							SECTION	COUNTY	TOTAL SHEET SHEETS NO.
DELL DO			DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			220	(23-BR)BJR, BP, BRR	MERCER	23 7	
		PLOT SCALE = 1:100	CHECKED -	REVISED -								CONTRACT	F NO. 68F78
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## TYPE I ELASTOMERIC EXP. BRG.



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



## BEARING ASSEMBLY

IDOT

ent\192-2050

SMODELNAMES

## Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of grades and dimensions specified. ASTM A307 grade C anchor bolts may be used in lieu of ASTM F1554 grade 36 (Fy=36Ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

- Drilled and set anchor bolts shall be installed according to Article 521.06 of Standard Specifications.
- Side retainers and ¼ stainless steel plates required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I. The minimum jack capacity required is 35 tons.
- Existing diaphragm removal and reinstallation may be required to facilitate drilling holes, cost to be included with Jack and Remove Existing Bearings.
- Prior to ordering any materials, the contractor shall verify in the field all bearings height and shim thickness dimensions. Adjustment must account for deck heave due to pack rusk (if present).
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. new steel extensions, connection bolts, fill plates and shim plates are included in Furnishing and Erecting Structural Steel.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- All fill plates, shim plates, side retainers, and anchor bolts material shall be hot dip galvanized.

## GIRDER REACTIONS

#### BILL OF MATERIAL

	South Abutment
R₽ (k)	14.1
R4 (k)	26.2
Imp. (k)	7.9
RTotal (k)	48.2

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	80
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts 1"	Each	12
Jack and Remove Existing Bearings	Each	6



 Burn the existing anchor bolts flush with existing concrete surface. Grind concrete surface. Grind concrete surface. Grind and seal with epoconcrete surface.

## EXISTING BEARING REMOVAL DETAIL

Cost is included with jack & remove existing bearings.

	Hurst-Rosche, Inc.	USER NAME =	DESIGNED - CJC	REVISED -		BEARING DETAILS - SOUTH ABUTMENT	F.A.S. RTE	SECTION	COUNTY	TOTAL SI SHEETS	HEET NO.
	HILLSBORO, IL		CHECKED - CV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 066-0007	220	23(B)BR-1	MERCER	23	15
	PH: 217.532.3959	PLOT SCALE =	DRAWN - UJ	REVISED -		STRUCTURE NO. 000-0007			CONTRAC	CT NO. 68/	F78
	JOB NO. 192-2050	PLOT DATE =	CHECKED - CJC	REVISED -		SHEET 6 OF 12 SHEETS	ILLINOIS FED		D. AID PROJECT		
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# BILL OF MATERIAL



\*See sheet 3 of 10 for bending diagrams.

#### Notes:

Existing reinforcement bars extending into removal shall be cleaned, straightened and incorporated into the new construction.

Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal. All reinforcement bars shall be cut in field to fit existing shape and clearance.



(Projects/C) (Projects/C)			ST FARAFET ELEVATION			
Hurst-Rosche, Inc. USER NAME -	DESIGNED _ CJC REVISED _		PARAPET REPAIRS	F.A.S. SECTION	COUNTY TOTAL SHEET	
	CHECKED - CMV REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 066-0007	220 23(B)BR-1	MERCER 23 17	
HILLSBORO, IL PLOT SCALE -	DRAWN - UJ REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 066-0007		CONTRACT NO. 68F78	
G = JOB NO. 192-2050 PLOT DATE =	CHECKED - CJC REVISED -		SHEET 8 OF 12 SHEETS	ILLINOIS FED. AD PR	JECT	
6/17/2021 9:01:00 AM						



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Pavement Standard 780001 (Typical State NOTES: Include DESIGNER 1