

CONSTRUCTION CODE		
F.A.P. 332 - SALINE COUNTY		
FUNDING: 80% FEDERAL, 20% STATE		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
28000400	PERIMETER EROSION BARRIER	FOOT	5,976	5,976		
28000500	INLET AND PIPE PROTECTION	EACH	1	1		
28100107	STONE RIPRAP, CLASS A4	SQ YD	5,455		3,447	2,008
28200200	FILTER FABRIC	SQ YD	5,455		3,447	2,008
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	3,011	3,011		
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	2,438	2,438		
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	250	250		
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	250	250		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	316.0	316.0		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,360	11,360		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5,115	5,115		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	2,598	2,598		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	191	191		
40600990	TEMPORARY RAMP	SQ YD	440	440		
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	845.5	845.5		



⚠️ REVISED 1-9-2023
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PLOT DATE = 3/18/2022	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 5
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
 F.A.P. 332 - SALINE COUNTY
 FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	550.2	550.2		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,188	1,188		
40701906	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11 1/4"	SQ YD	1,760	1,760		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	342	342		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	342	342		
42001300	PROTECTIVE COAT	SQ YD	342	342		
44000100	PAVEMENT REMOVAL	SQ YD	1,343	1,343		
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	6,391	6,391		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	3,049	3,049		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50102400	CONCRETE REMOVAL	CU YD	117		117	
50104650	SLOPE WALL REMOVAL	SQ YD	1965			1965
50200100	STRUCTURE EXCAVATION	CU YD	418		214	204
50200300	COFFERDAM EXCAVATION	CU YD	1,094		777	317

1,343 1,343



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
 SUMMARY OF QUANTITIES

SCALE: 1" = 50' SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 6
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE
F.A.P. 332 - SALINE COUNTY
FUNDING: 80% FEDERAL, 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				RURAL	S.N. 083-0073	S.N. 083-0074
51203900	TEST PILE STEEL HP14X89	EACH	8		4	4
51500100	NAME PLATES	EACH	2		1	1
52100520	ANCHOR BOLTS, 1"	EACH	112		56	56
52200010	TEMPORARY SHEET PILING	SQ FT	1,454		686	768
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	24	24		
54248510	CONCRETE COLLAR	CU YD	0.5	0.5		
54262724	METAL FLARED END SECTIONS 24"	EACH	1	1		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	237		119	118
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	136		68	68
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	212		106	106
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	525.0	525.0		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	12		
63200310	GUARDRAIL REMOVAL	FOOT	1,995	1,995		

* SPECIALTY ITEM

△ REVISED 1-9-2023
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.P. 332 (U.S. ROUTE 45)
SUMMARY OF QUANTITIES**

SCALE: 1" = 50' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 8
CONTRACT NO. 78716			ILLINOIS FED. AID PROJECT	

GUARDRAIL SCHEDULE

LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)
STA.	TO	STA.	OFFSET	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH
701+07.96 R2	TO	705+00.00 R2	LT	125.0	1	1	320	1	4	
701+07.96 R2	TO	705+00.00 R2	RT	125.0	1	1	370	1	4	
705+00.00 R2	TO	708+13.72 R2	LT	125.0	1	1	291	1	4	
705+00.00 R2	TO	708+13.72 R2	RT	125.0	1	1	242	1	4	
717+48.50 R2	TO	718+60.96 R2	RT	12.5		2		2	4	
719+16.00 R2	TO	721+00.00 R2	LT			1	170	1	4	1
719+16.00 R2	TO	721+00.00 R2	RT			1	170	1	4	1
721+00.00 R2	TO	723+30.00 R2	LT			1	216	1	4	1
721+00.00 R2	TO	723+30.00 R2	RT			1	216	1	4	1
723+85.04 R2	TO	724+97.50 R2	LT	12.5		2		2	4	
TOTAL				525.0	4	12	1,995	12	40	4



ENTRANCE SCHEDULE

LOCATION		AGGREGATE SURFACE COURSE, TYPE B
		TON
ENTRANCE LOCATION 1	LT	100.2
ENTRANCE LOCATION 2	RT	66.0
ENTRANCE LOCATION 3	LT	79.6
ENTRANCE LOCATION 4	RT	70.2
TOTAL		316.0

* SEE SHEET 108 FOR LOCATIONS

REVISED 1-9-2023

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PLOT DATE = 1/5/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	17
CONTRACT NO. 78716				

Long Section Number ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC SCHEDULE

STATION			HMA BASE COURSE WIDENING, 10"	PAVEMENT REMOVAL	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATOR, RELOCATE (FULLY-REDIRECTIVE), TEST LEVEL 3	BARRIER WALL REFLECTORS, TYPE C
STA.	TO	STA.	SQ YD	SQ YD	FOOT	EACH	FOOT	EACH	EACH	EACH
700+67.00 R2	TO	701+00.00 R2			15.0		15.0	1	1	4
701+00.00 R2	TO	707+00.00 R2	103	103	600.0	96	600.0			96
707+00.00 R2	TO	708+10.00 R2	28	28	85.0		110.0	1	1	16
717+87.00 R2	TO	719+00.00 R2	17	17	95.0		94.5	1	1	16
719+00.00 R2	TO	725+00.00 R2	102	102	617.5	96	593.0	1	1	100
TOTAL			250	250	1,412.5	192	1,412.5	4	4	232



EROSION CONTROL SCHEDULE

LOCATION				EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY CONSTRUCTION FENCE
STA.	TO	STA.	TO	SQ YD	POUND	FOOT	EACH	FOOT
693+11.39 R2	TO	695+00.00 R2	LT		8	213		
693+11.40 R2	TO	695+00.00 R2	RT		7	207		
695+00.00 R2	TO	701+00.00 R2	LT		37	617		474
695+00.00 R2	TO	701+00.00 R2	RT		35	603		201
701+00.00 R2	TO	707+00.00 R2	LT	2,066	29	351		611
701+00.00 R2	TO	707+00.00 R2	RT	382	32	351		625
707+00.00 R2	TO	713+00.00 R2	LT		68	601		601
707+00.00 R2	TO	713+00.00 R2	RT		69	601		601
713+00.00 R2	TO	719+00.00 R2	LT		58	619		563
713+00.00 R2	TO	719+00.00 R2	RT		58	633		601
719+00.00 R2	TO	725+67.50 R2	LT		39	555	1	
719+00.00 R2	TO	725+67.50 R2	RT		33	625		
TOTAL				2,448	473	5,976	1	4,277

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL, ACRES
STA.	TO	STA.	OFFSET	UNIT	ACRE
705+98.32 R2	TO	706+66.31 R2	LT		0.04
706+60.00 R2	TO	708+33.12 R2	LT		0.04
720+41.16 R2	TO	720+47.86 R2	LT		0.02
723+24.68 R2	TO	725+67.50 R2	LT		0.15
			721+76.55 R2	87.3' RT	15
			721+97.49 R2	65.2' RT	15
			722+00.60 R2	60.9' RT	15
TOTAL				45	0.25

⚠️ REVISED 1-9-2023

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■ 1/5/2023	-	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	18
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON US 45 SHALL BE MAINTAINED AT ALL TIMES.
- EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 1 CONSTRUCTION

PRE-PHASE

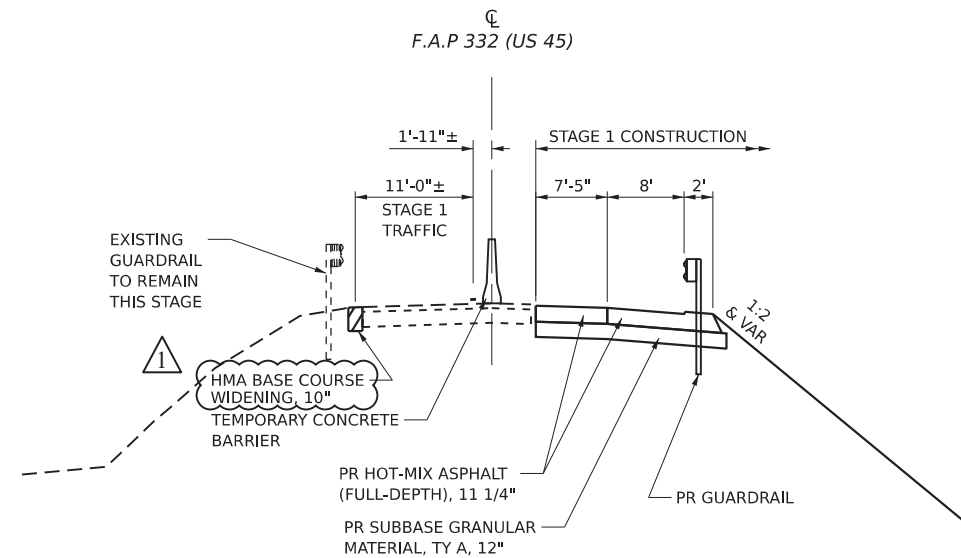
- PLACE HMA BASE COURSE WIDENING, 10" TO BE USED FOR STAGE 1 TRAFFIC

PHASE 1

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201, 701326 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE NEXT SHEET.
- INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE RIGHT HALF OF ROADWAY, SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

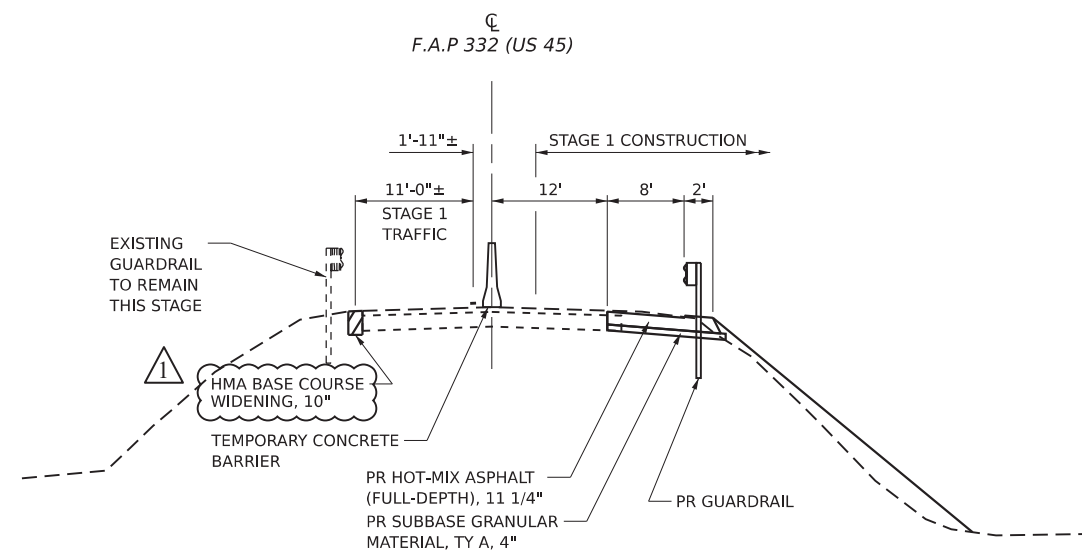
PHASE 2

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE SOUTHBOUND SIDE OF US 45.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF EACH EXISTING STRUCTURES AND REMOVE THE NORTHBOUND SIDE OF EXISTING STRUCTURES.
- CONSTRUCT THE NORTHBOUND SIDE OF EACH BRIDGE STRUCTURE, EMBANKMENT AT NORTH AND SOUTH SIDES OF EACH PROPOSED STRUCTURE, APPROACH PAVEMENT AND FULL-DEPTH SHOULDERS.
- INSTALL GUARDRAIL ON NORTHBOUND SIDE OF US 45 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 FOR SHOULDER WIDENING (RIGHT) TO BE USED FOR STAGE 2 TRAFFIC.



STAGE 1 CONSTRUCTION - SECTION B-B

N.T.S.



STAGE 1 CONSTRUCTION - SECTION A-A

N.T.S.

TRAFFIC CONTROL NOTES

- TWO PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
- THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321.
- REMOVAL OF THE RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
- ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

REVISION 1-9-2023

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PLOT DATE	1/5/2023				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 332 (U.S. ROUTE 45)
MAINTENANCE OF TRAFFIC - STAGE 1

SCALE: 1" = 20'

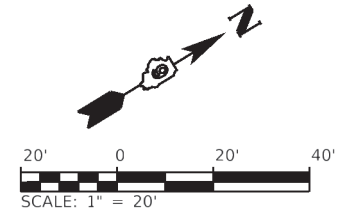
SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3; 29B-4	SALINE	150	28
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

Long Section Number

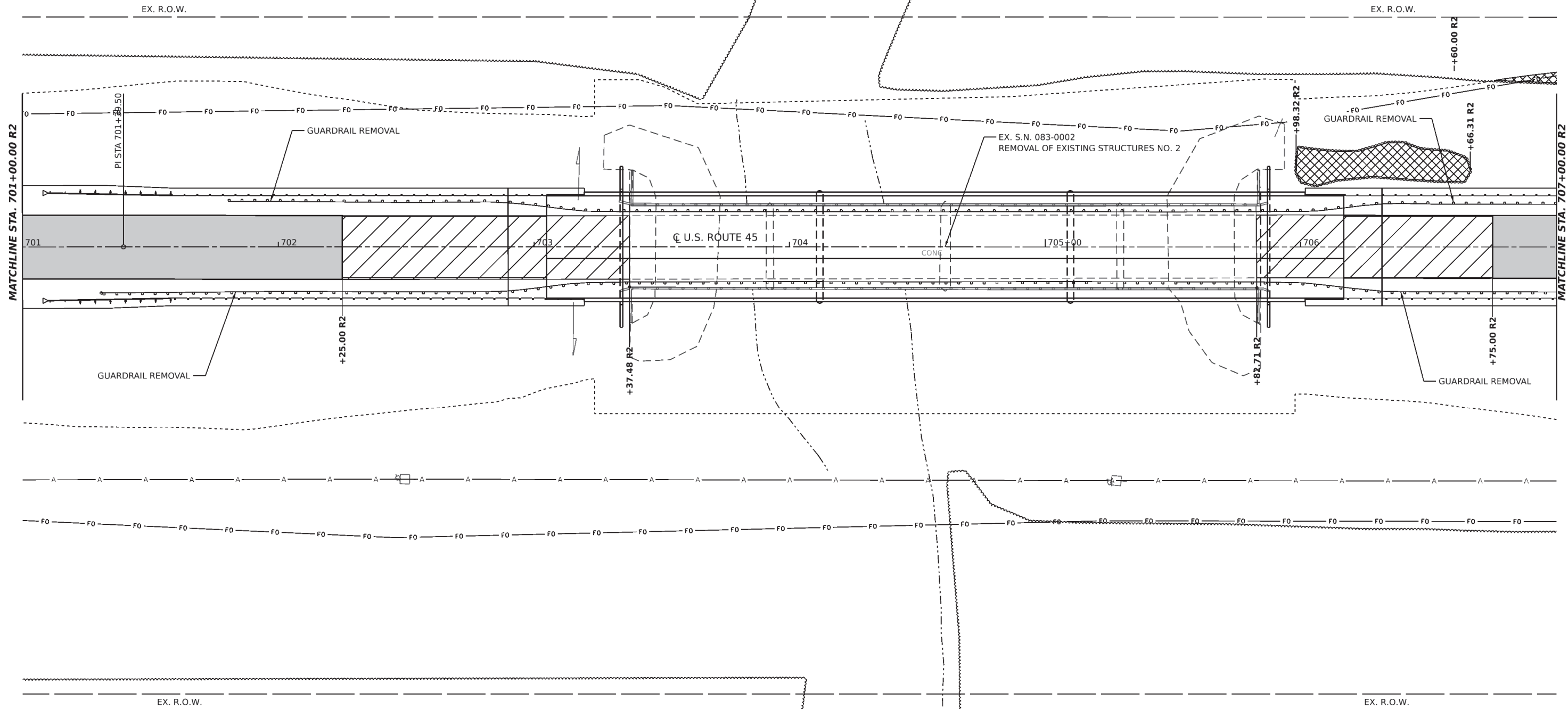
LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



NOTES:

1. EXISTING BRIDGE RAIL REMOVAL SHALL BE INCLUDED IN REMOVAL OF EXISTING STRUCTURES NO. 2.
2. GUARDRAIL REMOVAL SHALL INCLUDE THE REMOVAL OF THE TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

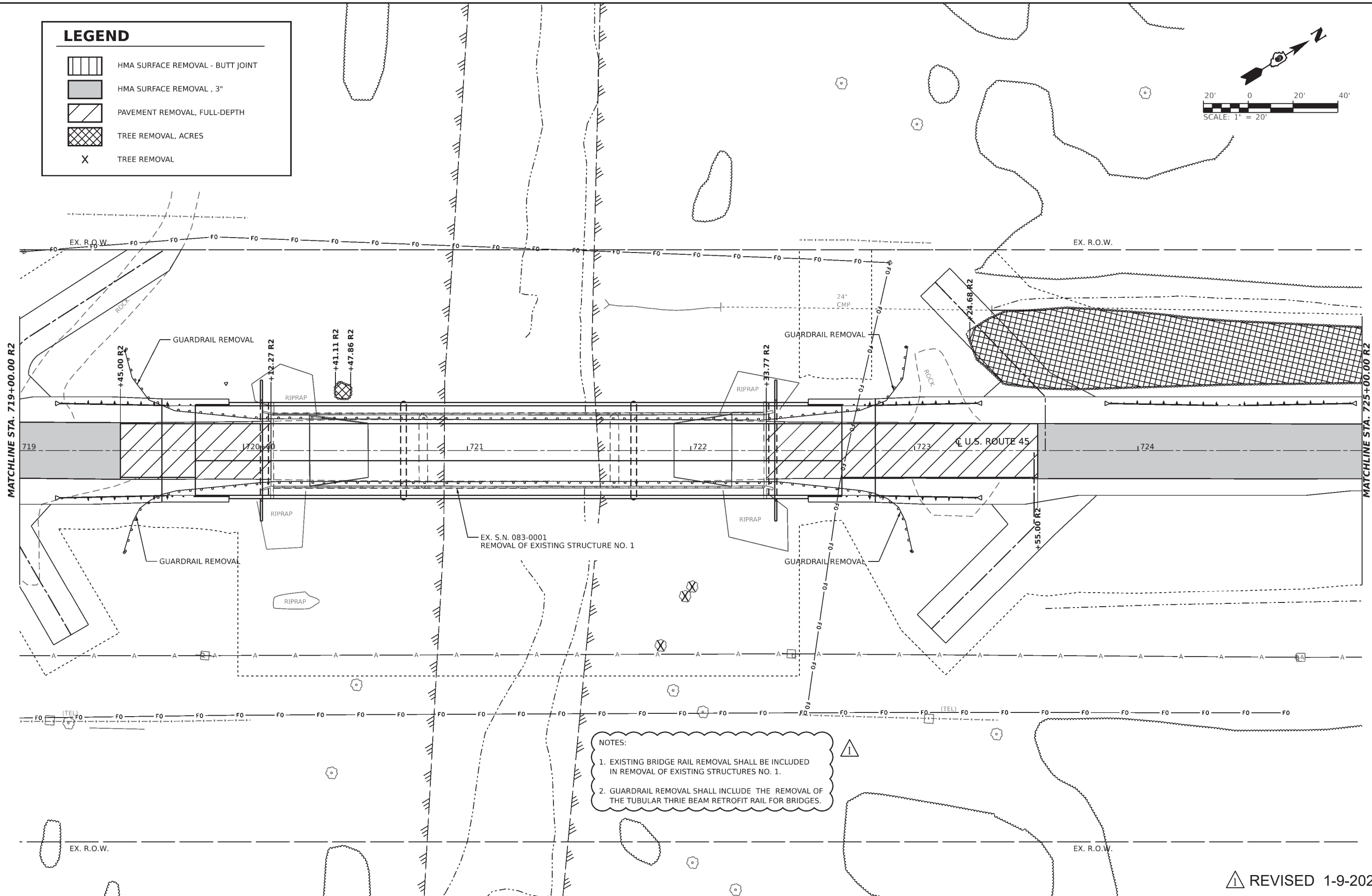
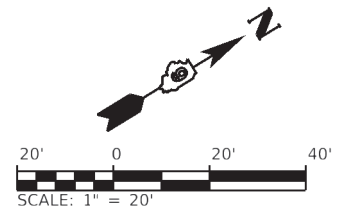
F.A.P. 332 (U.S. ROUTE 45)
REMOVAL PLAN

SCALE: 1" = 20' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 56
CONTRACT NO. 78716				
Long Section Number		ILLINOIS	FED. AID PROJECT	

LEGEND

-  HMA SURFACE REMOVAL - BUTT JOINT
-  HMA SURFACE REMOVAL, 3"
-  PAVEMENT REMOVAL, FULL-DEPTH
-  TREE REMOVAL, ACRES
-  TREE REMOVAL



NOTES:

1. EXISTING BRIDGE RAIL REMOVAL SHALL BE INCLUDED IN REMOVAL OF EXISTING STRUCTURES NO. 1.
2. GUARDRAIL REMOVAL SHALL INCLUDE THE REMOVAL OF THE TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. 332 (U.S. ROUTE 45)
 REMOVAL PLAN
 SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 332	SECTION 29B-3; 29B-4	COUNTY SALINE	TOTAL SHEETS 150	SHEET NO. 59
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

 **REVISED 1-9-2023**

Long Section Number

INDEX OF SHEETS

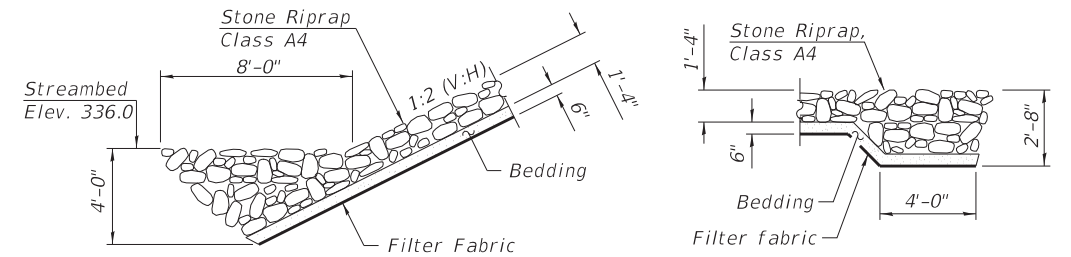
- 1 General Plan and Elevation
- 2 General Data and Bill of Materials
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5 Removal Details and Footing Plan
- 6 Deck Elevations - I
- 7 Deck Elevations - II
- 8 Approach Slab Elevations
- 9 Superstructure - I
- 10 Superstructure - II
- 11 Superstructure Details - I
- 12 Superstructure Details - II
- 13 Diaphragm Details
- 14 Bridge Approach Slab Plan
- 15 Bridge Approach Slab Details
- 16 Framing Plan
- 17 Beam and Steel Details
- 18 Moment and Reaction Tables
- 19 North and South Abutment
- 20 Pier 1 and Pier 2
- 21 Pile Details
- 22 Bar Splicer Assembly Details
- 23 Soil Boring Log - I
- 24 Soil Boring Log - II
- 25 Soil Boring Log - III

GENERAL NOTES

1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas and ASTM F3125 Grade A325 Type 3 in unpainted areas. Bolts 3/4 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
2. Calculated weight of Structural Steel = 393,262.
3. All structural steel shall be AASHTO M270 Grade 50W except bearings which shall be AASHTO M270 Grade 50.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6" inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor rods. The beams shall be erected in final position prior to drilling holes for and placing anchor rods.
10. No construction joint except those shown on the plans will be allowed unless approved by the engineer.
11. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
12. 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.
13. Slipforming of the parapets is not allowed.
14. The cost of bridge rail removal is included in Removal of Existing Structures No. 1.
15. Existing steel tube railing to be included in cost of Removal of Existing Structures. Existing Guard Rail will be paid for separately.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		3,447	3,447
Filter Fabric	Sq Yd		3,447	3,447
Removal of Existing Structures No. 1	Each		1	1
Concrete Removal	Cu Yd		117	117
Structure Excavation	Cu Yd		214	214
Cofferdam Excavation	Cu Yd		777	777
Cofferdam (Type 2) (Location - 1)	Each		2	2
Concrete Structures	Cu Yd	25.3	459.1	484.4
Concrete Superstructure	Cu Yd	357.1		357.1
Bridge Deck Grooving	Sq Yd	1,220		1,220
Protective Coat	Sq Yd	1,547		1,547
Concrete Superstructure (Approach Slab)	Cu Yd	116.8		116.8
Furnishing and Erecting Structural Steel	L Sum	0.54		0.54
Stud Shear Connectors	Each	4,725		4,725
Reinforcement Bars, Epoxy Coated	Pound	135,160	87,940	223,100
Bar Splicers	Each	991	280	1,271
Mechanical Splicers	Each		580	580
Furnishing Steel Piles HP14x89	Foot		8,369	8,369
Driving Piles	Foot		8,369	8,369
Test Pile Steel HP14x89	Each		4	4
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	56		56
Temporary Sheet Piling	Sq Ft		686	686
Granular Backfill for Structures	Cu Yd		119	119
Geocomposite Wall Drain	Sq Yd		68	68
Pipe Underdrains for Structures 4"	Foot		106	106



WATERWAY INFORMATION TABLE

Flood		Freq. Yr.	Ex. Q C.F.S.	Pr. Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
					Exist. Prop.		Exist. Prop.	Exist. Prop.
Main Channel			6685	5690	2703	3833		
Relief Structure		10	3315	4410	2227	2838	363.3	0.3 0.1 363.6 363.4
Total			10100	10100	4930	6671		
Design								
Main Channel		50	10550	8280	3178	4258	365.7	0.2 0.2 365.9 365.9
Relief Structure			4350	6820	2735	3404		
Total			15100	15100	5913	7662		
Base								
Main Channel		100	12970	9550	3293	4428	366.5	0.2 0.2 366.7 366.0
Relief Structure			4330	7650	2878	3597		
Total			17200	17200	6171	8025		
Overtop, Existing								
Main Channel		200	10190	10620	3327	4524	367.2	0.2 0.1 367.4 367.3
Relief Structure			9110	8780	2974	3703		
Total			19400	19400	6301	8227		
Scour Design Check								
Main Channel		200	10620	8495	3194	4276	365.8	0.2 0.2 366.0 366.0
Relief Structure			4680	6805	2753	3428		
Total			15300	15300	5947	7704		
Max. Calc.								
Main Channel		500	15090	12275	3327	4524	368.1	0.2 0.1 368.3 368.2
Relief Structure			7210	10225	2991	3703		
Total			22500	22500	6318	8227		

10 Year velocity through existing bridge = 2.47 ft/s
 10 Year velocity through proposed bridge = 1.48 ft/s
 All-time HWE and Date: HWE = 366.8' on 5/6/2011

STATION 721+23.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 332 SEC. 29B-3
 LOADING HL-93
 STRUCTURE NO. 083-0073

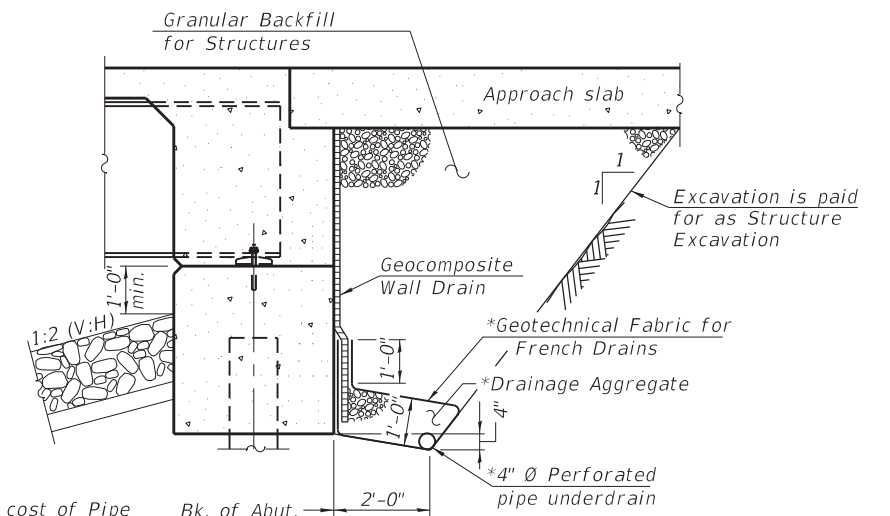
NAME PLATE
 See Std. 515001

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	South Abut.	Pier 1	Pier 2	North Abut.	Item 113
Q100	363.33	318.75	317.12	363.31	5
Q200	363.33	315.17	312.74	363.31	
Design	363.33	318.75	317.12	363.31	
Check	363.33	315.17	312.74	363.31	

SECTION A-A

SECTION B-B



*Included in the cost of Pipe Underdrains for Structures.

SECTION THRU ABUT.

(Showing backfill and drainage details)

REVISION 1-9-2023



USER NAME = Derek Cochran	DESIGNED - DH	REVISED -
PLOT SCALE = N/A	DRAWN - DH	REVISED -
PLOT DATE = 1/5/2023 (11:00:53 AM)	CHECKED - ATI	REVISED -
	DATE - 05/19/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA AND BILL OF MATERIAL
 SN 083-0073**

SCALE: SHEET 2 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-3	SALINE	150	62
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\1906610\10\08\Drawings\Sheet Updates\0978716-SN-083-0073_02_General Data & BOM - Note Update.dgn

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data and Bill of Materials
- 3 Staging Construction Details
- 4 Temporary Concrete Barrier
- 5 Removal Details and Footing Plan
- 6 Deck Elevations - I
- 7 Deck Elevations - II
- 8 Approach Slab Elevations
- 9 Superstructure - I
- 10 Superstructure - II
- 11 Superstructure Details - I
- 12 Superstructure Details - II
- 13 Diaphragm Details
- 14 Bridge Approach Slab Plan
- 15 Bridge Approach Slab Details
- 16 Framing Plan
- 17 Beam and Steel Details
- 18 Moment and Reaction Tables
- 19 North and South Abutment
- 20 Pier 1 and Pier 2
- 21 Pile Details
- 22 Bar Splicer Assembly Details
- 23 Soil Boring Log - I
- 24 Soil Boring Log - II
- 25 Soil Boring Log - II
- 26 Soil Boring Log - II
- 27 Soil Boring Log - II
- 28 Soil Boring Log - II

GENERAL NOTES

- 1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas and ASTM F3125 Grade A325 Type 3 in unpainted areas. Bolts 3/4 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
- 2. Calculated weight of Structural Steel = 337,594
- 3. All structural steel shall be AASHTO M270 Grade 50W except bearings which shall be AASHTO M270 Grade 50.
- 4. No field welding is permitted except as specified in the contract documents.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6" inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- 8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 9. Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor rods. The beams shall be erected in final position prior to drilling holes for and placing anchor rods.
- 10. No construction joint except those shown on the plans will be allowed unless approved by the engineer.
- 11. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- 12. 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.
- 13. Slipforming of the parapets is not allowed.
- 14. The cost of bridge rail removal is included in Removal of Existing Structures No. 2.

15. Existing steel tube railing to be included in cost of Removal of Existing Structures. Existing Guard Rail will be paid for separately.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		2,008	2,008
Filter Fabric	Sq Yd		2,008	2,008
Removal of Existing Structures No. 2	Each		1	1
Slope Wall Removal	Sq Yd		1,965	1,965
Structure Excavation	Cu Yd		204	204
Cofferdam Excavation	Cu Yd		317	317
Cofferdam (Type 1) (Location - 1)	Each		2	2
Concrete Structures	Cu Yd		393.7	393.7
Concrete Superstructure	Cu Yd	384.8		384.8
Bridge Deck Grooving	Sq Yd	1,317		1,317
Protective Coat	Sq Yd	1,671		1,671
Concrete Superstructure (Approach Slab)	Cu Yd	116.8		116.8
Furnishing and Erecting Structural Steel	L Sum	0.46		0.46
Stud Shear Connectors	Each	5,502		5,502
Reinforcement Bars, Epoxy Coated	Pound	143,280	67,850	211,130
Bar Splicers	Each	1,062	200	1,262
Mechanical Splicers	Each		496	496
Furnishing Steel Piles HP14x89	Foot		8,356	8,356
Driving Piles	Foot		8,356	8,356
Test Pile Steel HP14x89	Each		4	4
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	56		56
Temporary Sheet Piling	Sq Ft		768	768
Granular Backfill for Structures	Cu Yd		118	118
Geocomposite Wall Drain	Sq Yd		68	68
Pipe Underdrains for Structures 4"	Foot		106	106

WATERWAY INFORMATION TABLE

Drainage Area = 250 sq. mi.		Exist. Low Grade Elev. 365.48 ft. @ Sta. 753+00		Prop. Low Grade Elev. 365.48 ft. @ Sta. 753+00		Nat. H.W.E.		Head - Ft.		Headwater El.	
Flood	Freq. Yr.	Ex. Q C.F.S.	Pr. Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Main Channel		6685	5690	2703	3833						
Relief Structure	10	3315	4410	2227	2838	363.3	0.3	0.1	363.6	363.4	
Total		10100	10100	4930	6671						
Design											
Main Channel	50	10550	8280	3178	4258						
Relief Structure		4350	6820	2735	3404	365.7	0.2	0.2	365.9	365.9	
Total		15100	15100	5913	7662						
Base											
Main Channel	100	12970	9550	3293	4428						
Relief Structure		4330	7650	2878	3597	366.5	0.2	0.2	366.7	366.0	
Total		17200	17200	6171	8025						
Overtop, Existing											
Main Channel	200	10190	10620	3327	4524						
Relief Structure		9110	8780	2974	3703	367.2	0.2	0.1	367.4	367.3	
Total		19400	19400	6301	8227						
Scour Design Check											
Main Channel	200	10620	8495	3194	4276						
Relief Structure		4680	6805	2753	3428	365.8	0.2	0.2	366.0	366.0	
Total		15300	15300	5947	7704						
Max. Calc. OVERTOPPING OCCURS ABOVE THE 500 YR. FLOOD											
Main Channel	500	15090	12275	3327	4524						
Relief Structure		7210	10225	2991	3703	368.1	0.2	0.1	368.3	368.2	
Total		22500	22500	6318	8227						

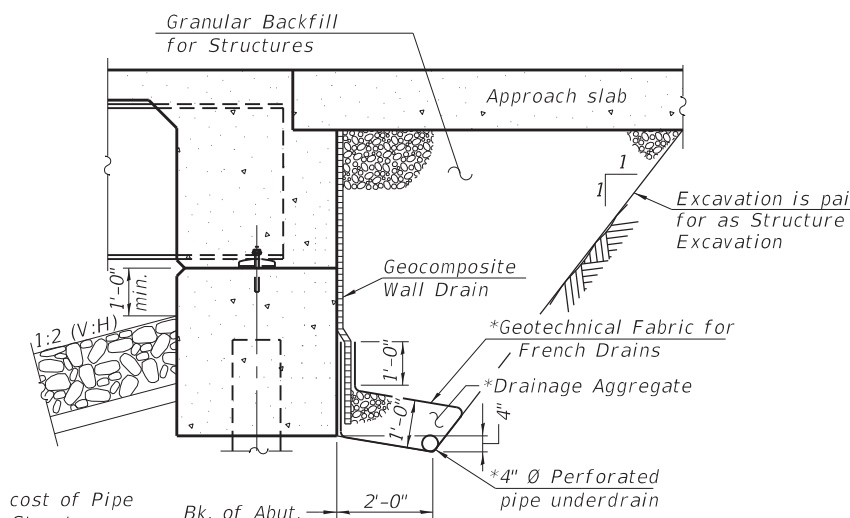
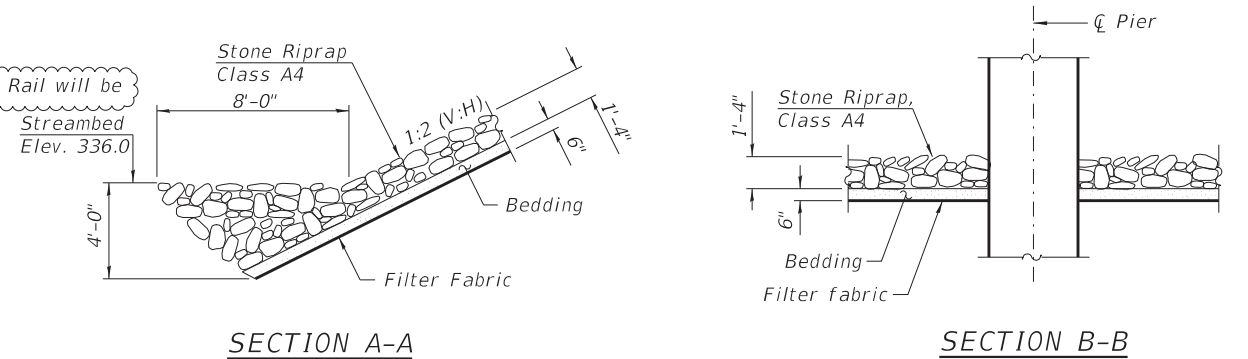
10 Year velocity through existing bridge = 1.49 ft/s
 10 Year velocity through proposed bridge = 1.55 ft/s
 All-time HWE and Date: HWE = 366.8' on 5/6/2011

STATION 704+60.84
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RT. 332 SEC. 29B-4
 LOADING HL-93
 STRUCTURE NO. 083-0074

NAME PLATE
 See Std. 515001

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	South Abut.	Pier 1	Pier 2	North Abut.	Item 113
Q100	363.36	318.75	317.12	363.38	5
Q200	363.36	315.17	312.74	363.38	
Design	363.36	318.75	317.12	363.38	
Check	363.36	315.17	312.74	363.38	



*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

SECTION THRU ABUT.
 (Showing backfill and drainage details)

REVISION 1-9-2023



USER NAME = Derek Cochran	DESIGNED - DH	REVISED -
PLOT SCALE = N/A	DRAWN - DH	REVISED -
PLOT DATE = 1/5/2023 (10:59:39 AM)	CHECKED - ATI	REVISED -
	DATE - 05/19/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA AND BILL OF MATERIAL
SN 083-0074

SCALE: SHEET 2 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	29B-4	SALINE	150	84
CONTRACT NO. 78716				
ILLINOIS FED. AID PROJECT				

FILE NAME: L:\DOT\190865\DWG_100\04\Main\Sheet\Updates\070716\4-28-2014_02_General Data & BOM - Note Update.dgn