

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899		SALINE	75	1

* 8BR-1, 8BR-2

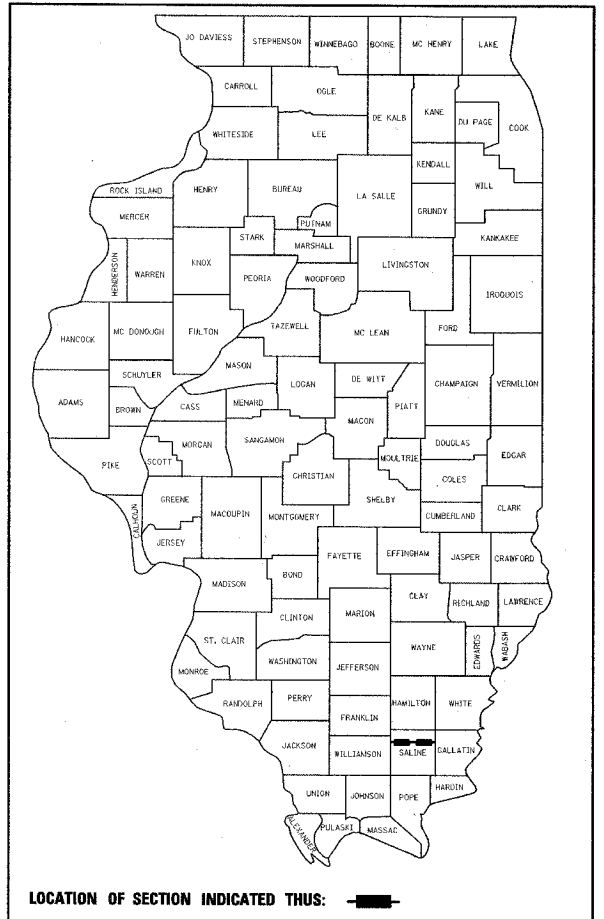
P-99-
D-99-008-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAS RTE 899 (OLD IL 13)
SECTIONS 8BR-1, 8BR-2
PROJECT: *RS-BHS-0899(004)*
SALINE COUNTY

C - 99-008-08
PPC DECK BEAM SUPERSTRUCTURE REPLACEMENTS
OVER POSSUM TAIL BRANCH AND BANKSTON FORK



LOCATION OF SECTION INDICATED THUS: [Symbol]

INDEX OF SHEETS

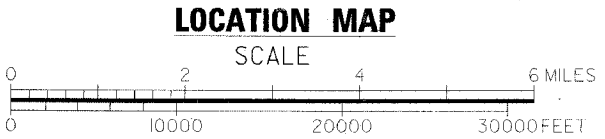
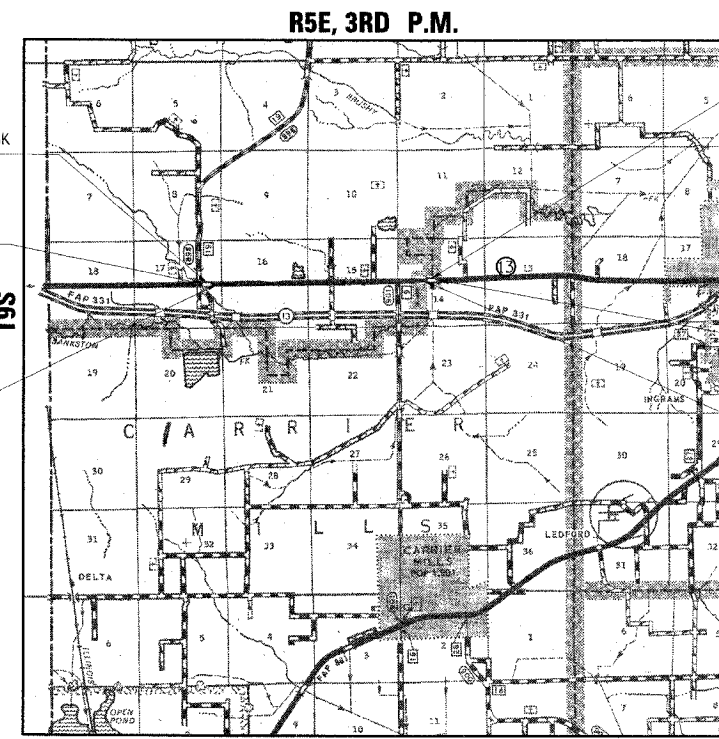
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4.	TYPICAL SECTIONS
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37.	GENERAL DATA
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CROSS SECTIONS	
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FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
DISTRICT 9 NO. (217) 549-2171
PROJECT ENGINEER: DAVID PICHE
UNIT CHIEF:
TOWNSHIP: BRUSHY & CARRIER MILLS
CONTRACT NO: 78028



GROSS LENGTH = 14,145 FT. = 2.68 MI.
NET LENGTH = 565 FT. = 0.11 MI.



DATE: 02/29/08
ILLINOIS PROFESSIONAL LICENSE NO. 37421
(EXPIRATION DATE: 11-30-09)

**DESIGN DESIGNATION
N.A.**

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (RURAL)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 330 @ SN 083-0035 (2007)
1480 @ SN 083-0036 (2007)
PV: 96%
SU: 3%
MU: 1%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED *March 14, 2008*
Man C. Pomeroy
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 9, 2008
Eric E. Harp
ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**



LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
515001-02	NAME PLATE FOR BRIDGES
630001-07	STEEL PLATE BEAM GUARDRAIL
631032-03	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5 m (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-09	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901	TRAFFIC CONTROL DEVICES
704001-04	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL/SQ YD
INTERMEDIATE LIFTS (FOG COAT)	0.04 GAL/SQ YD
ON AGGREGATE SURFACE	0.32 GAL/SQ YD
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ YD
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER EXCEPT AS DESCRIBED IN NOTE 19. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURES TO TWO LANE TRAFFIC, THE PRIME COAT, BINDER COURSE, AND THE SURFACE COURSE.
- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OR COVERED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN 30' OF THE CENTERLINE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 662+50 TO 666+50 AND STATION 800+00 TO 805+00. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.
- COMMITMENTS: NONE AS OF MARCH 21, 2008. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE.

CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899		SALINE	75	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 8BR-1, 8BR-2				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY: Joe M. [Signature]
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: [Signature]
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Connie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: Kevin [Signature]
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Joseph [Signature]
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Ben [Signature]
DISTRICT MATERIALS ENGINEER

EXAMINED BY: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Danny [Signature]
ASSISTANT REGIONAL ENGINEER

EXAMINED BY: Mark [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DATE: March 14 20 08

**GENERAL NOTES
AND STANDARDS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1, 8BR-2
SALINE COUNTY**

ESCA		
CONSULTANTS, INC.		
DESIGNED BY:	JMS	11/07
DRAWN BY:	KAH	11/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	02/08



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	HBP FUNDING 80% FEDERAL 20% STATE TOTAL	AS BHS	
				CONSTRUCTION TYPE CODE	
				X080-2A SN 083- 0035	SN 083- 0036
20200500	EARTH EXCAVATION (WIDENING)	CU YD	80	35	45
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.1	0.1
25000350	SEEDING, CLASS 7	ACRE	0.2	0.1	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	9	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	9	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	9	9
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.4	0.2	0.2
25100115	MULCH, METHOD 2	ACRE	0.4	0.2	0.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	20	20
28000400	PERIMETER EROSION BARRIER	FOOT	1165	625	540
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	18	-	18
35650500	BASE COURSE WIDENING 10"	SQ YD	309	124	185
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	170	120	50
40600300	AGGREGATE (PRIME COAT)	TON	3.5	2.5	1.0
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	86	75	11
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	474	254	220
40600990	TEMPORARY RAMP	SQ YD	280	190	90
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	110	77	33
44000100	PAVEMENT REMOVAL	SQ YD	19	-	19
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	26	16	10
48203100	HOT-MIX ASPHALT SHOULDERS	TON	59	47	12
50101700	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 1	EACH	1	1	-
50101800	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 2	EACH	1	-	1
50300225	CONCRETE STRUCTURES	CU YD	2.5	-	2.5
50300260	BRIDGE DECK GROOVING	SQ YD	537	136	401
50300300	PROTECTIVE COAT	SQ YD	576	144	432
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299	-	299
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1155	1155	-
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3339	-	3339
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7550	1770	5780
50800515	BAR SPLICERS	EACH	147	38	109
50901050	STEEL RAILING, TYPE SM	FOOT	353	70	283
51500100	NAME PLATES	EACH	2	1	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	33	-	33
58700300	CONCRETE SEALER	SQ FT	168	30	138
59000200	EPOXY CRACK INJECTION	FOOT	121	56	65

ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 11/07
DRAWN BY: KAH 11/07
CHECKED BY: MTD 01/08
APPROVED BY: RDP 02/08

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	HBP FUNDING 80% FEDERAL 20% STATE TOTAL	AS BHS	
				CONSTRUCTION TYPE CODE	
				X080-2A SN 083- 0035	SN 083- 0036
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	50	-	50
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	-	4
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	-
63200310	GUARDRAIL REMOVAL	FOOT	480	152	328
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	12.5	-	12.5
63301990	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	-	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1	-
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	10	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIP	EACH	18	12	6
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	6	6
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	296	152	144
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1715	780	935
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	51	51	-
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	773	413	360
70400100	TEMPORARY CONCRETE BARRIER	FOOT	637.5	250	387.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	637.5	250	387.5
70500660	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	1	-	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1715	780	935
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	51	51	-
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	4	4
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	2	4
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	2	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	473	268	205
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	4	1
* 86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	2	1	1
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	SQ FT	299	-	299
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	101	39	62
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	576	144	432
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
Z0073700	TEMPORARY WALL BRACING SYSTEM	L SUM	1	1	-

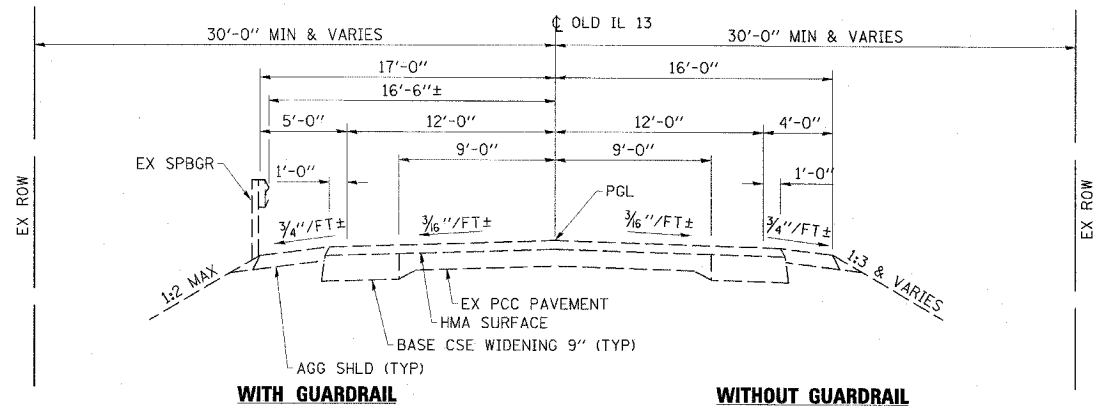
* SPECIALTY ITEMS

CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	*	SALINE	75	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*8BR-1, 8BR-2				

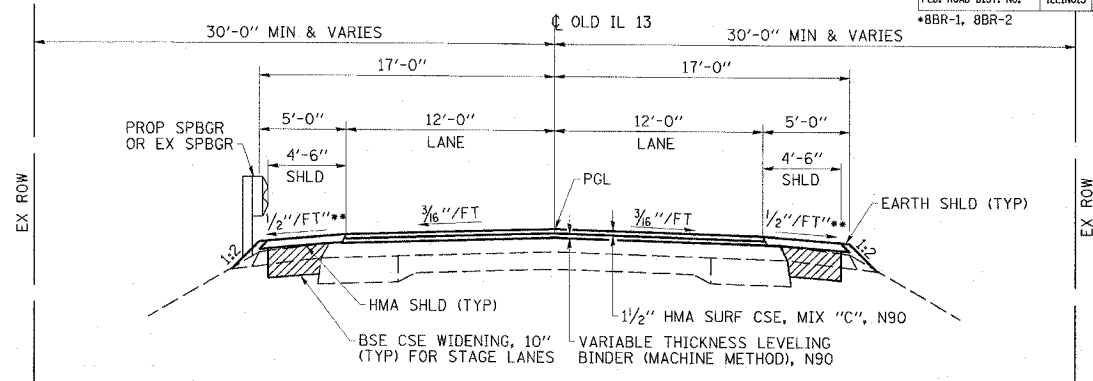
SUMMARY OF QUANTITIES
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1, 8BR-2
SALINE COUNTY



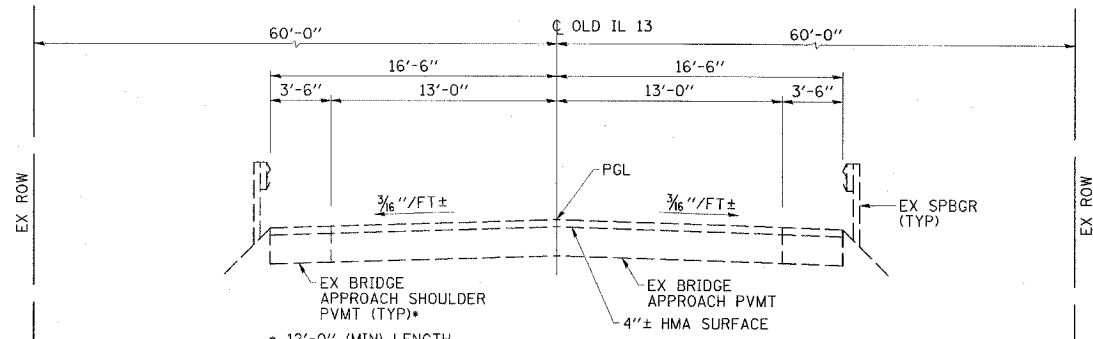
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B99	*	SALINE	75	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*BBR-1, BBR-2				



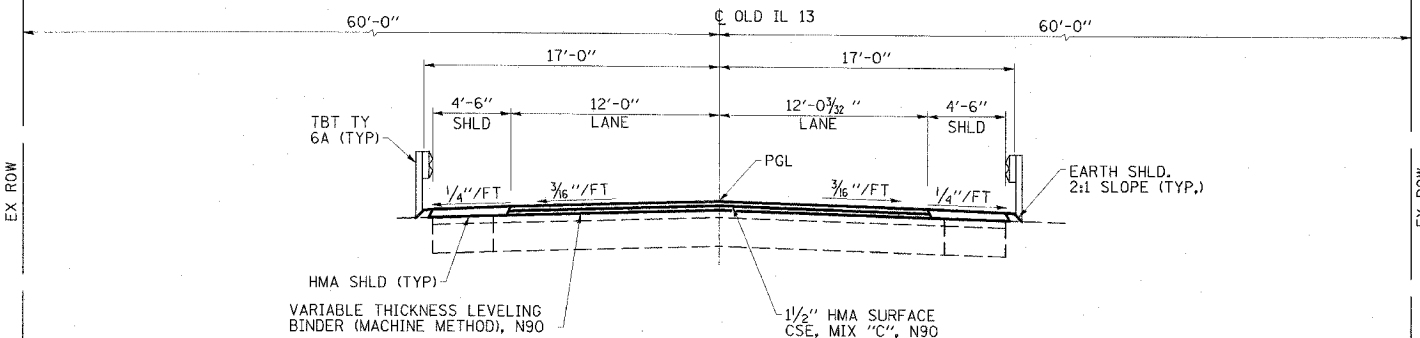
EXISTING TYPICAL ROADWAY SECTION
 STA 659+00 TO 669+47 AND STA 797+00 TO 808+50
 OMISSION STA 663+72.87 TO 664+57.13 (SN 083-0035)
 OMISSION STA 801+89.42 TO 803+30.58 (SN 083-0036)



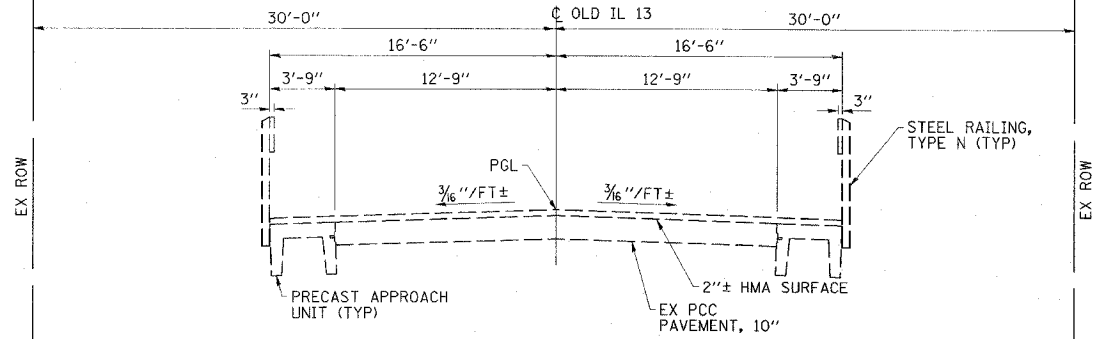
PROPOSED TYPICAL ROADWAY SECTION
 STA 662+55 TO 663+72.87 AND STA 664+57.13 TO 665+75
 STA 801+55 TO 801+89.42 AND STA 803+30.58 TO 804+00



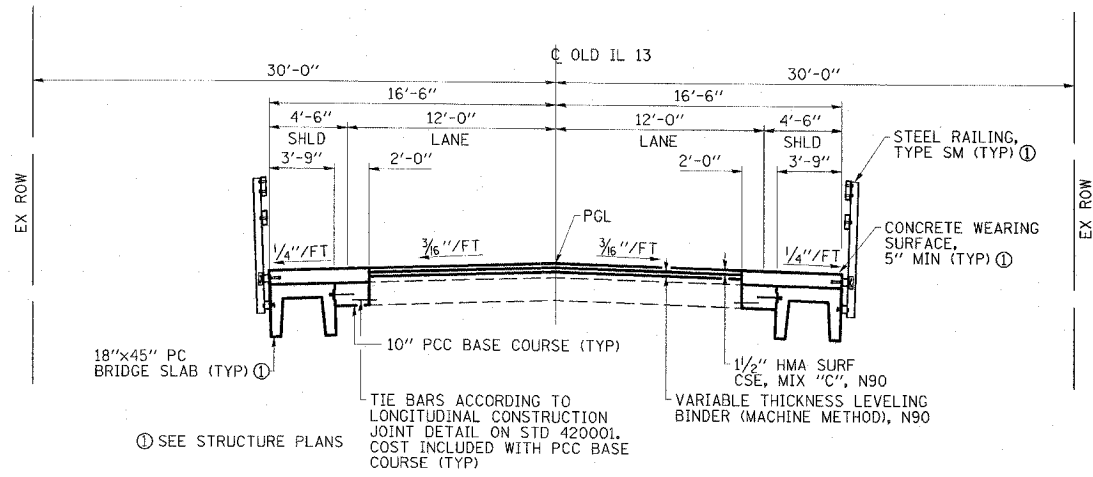
EXISTING BRIDGE APPROACH SECTION
 STA 663+72.87 TO 664+57.13
 BRIDGE OMISSION STA 663+97.60 TO 664+32.40



PROPOSED BRIDGE APPROACH SECTION
 STA 663+72.77 TO 664+57.23
 BRIDGE OMISSION STA 663+97.50 TO 664+32.50



EXISTING BRIDGE APPROACH SECTION
 STA 801+89.42 TO 803+30.58
 BRIDGE OMISSION STA 802+08.33 TO 803+11.67



PROPOSED BRIDGE APPROACH SECTION
 STA 801+89.42 TO 803+30.58
 BRIDGE OMISSION STA 802+08.33 TO 803+11.67

HMA MIXTURES REQUIREMENTS

LOCATION(S):	HOT MIX ASPHALT SURFACE COURSE AND LEVELING BINDER	BASE COURSE WIDENING	HOT MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT MIX ASPHALT SURFACE COURSE, MIX C, N90	HOT MIX ASPHALT BINDER COURSE, N90, IL-19.0	HOT MIX ASPHALT SHOULDERS
AC/PG:	PG64-22	PG64-22	PG58-22
RAP % (MAX): ***	10	10	50
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 OR IL 12.5	IL-19.0	HMA SHOULDERS
FRICITION AGGREGATE:	C SURFACE	NONE	NONE

*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

ESCA
 CONSULTANTS, INC.
 DESIGNED BY: JMS 11/07
 DRAWN BY: KAH 11/07
 CHECKED BY: MTD 01/08
 APPROVED BY: RDP 01/08

TYPICAL SECTIONS
 FAS RTE 899 (OLD IL 13)
 SECTION 8BR-1, 8BR-2
 SALINE COUNTY



FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION (WIDENING)	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NE QUADRANT CUTS & FILLS	10	7.5	-	-	3.5	+4.0
SE QUADRANT CUTS & FILLS	10	7.5	-	-	3.0	+4.5
NW QUADRANT CUTS & FILLS	10	7.5	-	-	1.5	+6.0
SW QUADRANT CUTS & FILLS	5	4.0	-	-	1.0	+3.0
TOTALS	35	26.5	-	-	9.0	+17.5

NOTES:

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)*0.75

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)
	FOOT	POUND
NE QUADRANT CUTS & FILLS	160	5
SE QUADRANT CUTS & FILLS	150	5
NW QUADRANT CUTS & FILLS	145	5
SW QUADRANT CUTS & FILLS	170	5
TOTALS	625	20

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
NE QUADRANT CUTS & FILLS	0.025	0.025	2.25	2.25	2.25	0.05	0.05
SE QUADRANT CUTS & FILLS	0.025	0.025	2.25	2.25	2.25	0.05	0.05
NW QUADRANT CUTS & FILLS	0.025	0.025	2.25	2.25	2.25	0.05	0.05
SW QUADRANT CUTS & FILLS	0.025	0.025	2.25	2.25	2.25	0.05	0.05
TOTALS	0.1	0.1	9.0	9.0	9.0	0.2	0.2

PAVING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N90	HMA SURFACE COURSE, MIX "C", N90	HMA SHOULDERS
	GALLON	TON	TON	TON	TON
WEST APPROACH	65	1.3	38	43	24
EAST APPROACH	55	1.2	37	34	23
TOTALS	120	2.5	75	77	47

PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE
		FOOT	FOOT	FOOT	FOOT	FOOT
STA 661+70 TO 667+12.5, CENTERLINE	SKIP-DASH YELLOW CENTERLINE	152	140	140	-	-
STA 662+55 TO 665+75, LT	SOLID WHITE EDGE LINE	-	320	320	-	-
STA 662+55 TO 665+75, RT	SOLID WHITE EDGE LINE	-	320	320	-	-
STA 662+65	STOP BAR	-	-	-	19	19
STA 662+00	STOP BAR	-	-	-	32	32
TOTALS		152	780	780	51	51

① INCLUDES 3 ADDITIONAL APPLICATIONS FROM STA 662+55 TO STA 665+75

PAVEMENT MARKER REMOVAL SCHEDULE

LOCATION	RRPM REMOVAL
	EACH
STA 662+84	1
STA 663+63	1
STA 664+43	1
STA 665+23	1
TOTAL	4

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 661+70 TO 667+12.5, C	SHORT-TERM EDGELINES	51	-
	TEMPORARY CENTERLINE	213	-
	TEMPORARY EDGELINE	47	-
STA 662+89.50 TO 665+40.50, LT	EDGELINE	-	84
STA 663+05.00 TO 663+69.00, RT	EDGELINE	-	22
STA 664+61.00 TO 665+44.50, RT	EDGELINE	-	28
	STOP BARS	102	102
STA 662+60 TO STA 667+12.5, C	TEMPORARY CENTERLINE	-	32
TOTALS		413	268

BASE COURSE SCHEDULE

LOCATION	BASE COURSE WIDENING, 10"
	SQ YD
NE QUADRANT	41
SE QUADRANT	34
NW QUADRANT	30
SW QUADRANT	19
TOTAL	124

HMA SURF REMOVAL SCHEDULE

LOCATION	BUTT JOINT	SPECIAL
	SQ YD	SQ YD
STA 662+55	164	-
STA 665+75	90	-
WEST APPROACH	-	8
EAST APPROACH	-	8
TOTALS	254	16

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	STEEL RAILING, TYPE SM	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	TERMINAL MARKER - DIRECT APPLIED
	EACH	EACH	EACH	FOOT	EACH	EACH	EACH
STRUCTURE NO. 083-0035 - NE	1	1	-	-	1	-	1
STRUCTURE NO. 083-0035 - SW	1	1	-	-	1	-	1
STRUCTURE NO. 083-0035 - BRIDGE	-	-	2	70	-	-	-
STRUCTURE NO. 083-0035 - SE	1	1	-	-	1	-	1
STRUCTURE NO. 083-0035 - NW	1	1	-	-	1	-	1
TOTALS	4	4	2	70	2	1	2

GUARDRAIL REMOVAL SCHEDULE

LOCATION	FOOT
STRUCTURE NO. 083-0035 - NE	44
STRUCTURE NO. 083-0035 - SE	40
STRUCTURE NO. 083-0035 - NW	40
STRUCTURE NO. 083-0035 - SW	28
TOTAL	152

SCHEDULES OF QUANTITIES
 FAS RTE 899 (OLD IL 13)
 SECTION 8BR-1
 SALINE COUNTY

ESCA
 CONSULTANTS, INC.

DESIGNED BY: JMS 11/07
 DRAWN BY: HAS 11/07
 CHECKED BY: MTD 01/08
 APPROVED BY: RDP 02/08

DATE = #DATE#
 FILE NAME = #FILENAME#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-2	SALINE	75	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION (WIDENING)	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NE QUADRANT CUTS & FILLS	10	7.5	-	-	13.5	-6.0
SE QUADRANT CUTS & FILLS	10	7.5	-	-	6.0	+1.5
NW QUADRANT CUTS & FILLS	10	7.5	-	-	4.5	+3.0
SW QUADRANT CUTS & FILLS	15	11.5	-	-	0.0	+11.5
TOTALS	45	34.0	-	-	24.0	+10.0

NOTES:

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)*0.75

PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE
		FOOT	FOOT	FOOT
STA 799+06.25 TO 806+13.75, CENTERLINE	SKIP-DASH YELLOW CENTERLINE	144	180	180
STA 800+71.25 TO 804+48.75, LT	SOLID WHITE EDGE LINE	-	377.5	377.5
STA 800+71.25 TO 804+48.75, RT	SOLID WHITE EDGE LINE	-	377.5	377.5
TOTALS		144	935	935

① INCLUDES 3 ADDITIONAL APPLICATIONS FROM STA 801+55 TO STA 804+00

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)
	FOOT	POUND
NE QUADRANT	135	5
SE QUADRANT	135	5
NW QUADRANT	135	5
SW QUADRANT	135	5
TOTALS	540	20

PAVEMENT MARKER REMOVAL SCHEDULE

LOCATION	RRPM REMOVAL
	EACH
STA 803+78	1
TOTAL	1

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 799+06.25 TO 806+13.75, ↓	SHORT-TERM EDGLINES	48	44
	TEMPORARY CENTERLINE	252	-
	TEMPORARY EDGLINE	60	-
STA 800+78.25 TO 804+41.75, LT	EDGLINE	-	91
STA 800+74.25 TO 801+77, RT	EDGLINE	-	35
STA 803+43 TO 804+45.75, RT	EDGLINE	-	35
TOTALS		360	205

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER	PHOSPHORUS FERTILIZER	POTASSIUM FERTILIZER	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
NE QUADRANT	0.025	0.025	2.25	2.25	2.25	0.08	0.05
SE QUADRANT	0.025	0.025	2.25	2.25	2.25	0.08	0.05
NW QUADRANT	0.025	0.025	2.25	2.25	2.25	0.08	0.05
SW QUADRANT	0.025	0.025	2.25	2.25	2.25	0.08	0.05
TOTALS	0.1	0.1	9.0	9.0	9.0	0.2	0.2

BASE COURSE SCHEDULE

LOCATION	BASE COURSE WIDENING, 10"	PCC BASE COURSE 10"
	SQ YD	SQ YD
NE QUADRANT	49	4.5
SE QUADRANT	44	4.5
NW QUADRANT	45	4.5
SW QUADRANT	47	4.5
TOTALS	185	18.0

HMA SURF REMOVAL SCHEDULE

LOCATION	BUTT JOINT	SPECIAL
	SQ YD	SQ YD
STA 801+55	110	-
STA 804+00	110	-
WEST APPROACH	-	5
EAST APPROACH	-	5
TOTALS	220	10

REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL
	SQ YD
NE QUADRANT	4.5
SE QUADRANT	4.5
NW QUADRANT	4.5
SW QUADRANT	4.5
TOTAL	18

GUARDRAIL REMOVAL SCHEDULE

LOCATION	FOOT
STRUCTURE NO. 083-0036 - NE	25
STRUCTURE NO. 083-0036 - SE	101
STRUCTURE NO. 083-0036 - NW	101
STRUCTURE NO. 083-0036 - SW	101
TOTAL	328

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	SPBGR, TYPE A	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	STEEL RAILING, TYPE SM	TBT, TY 1 (SPECIAL) TANGENT	REMOVE AND RE-ERECT TBT, TY 1	REMOVE AND RE-ERECT SPBGR, TYPE A	TERMINAL MARKER - DIRECT APPLIED
	EACH	FOOT	EACH	EACH	FOOT	EACH	EACH	FOOT	EACH
STRUCTURE NO. 083-0036 - NE	1	12.5	1	-	-	1	1	12.5	1
STRUCTURE NO. 083-0036 - SE	1	12.5	1	-	-	1	1	12.5	1
STRUCTURE NO. 083-0036 - NW	1	12.5	1	-	-	1	1	12.5	1
STRUCTURE NO. 083-0036 - SW	1	12.5	1	-	-	1	1	12.5	1
STRUCTURE NO. 083-0036 - BRIDGE	-	-	-	4	283	-	-	-	-
TOTALS	4	50.0	4	4	283	4	1	12.5	4

PAVING SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N90	HMA SURFACE COURSE, MIX "C", N90	HMA SHOULDERS
	GALLON	TON	TON	TON	TON
WEST APPROACH	16	0.3	1	12	3
EAST APPROACH	34	0.7	10	21	9
TOTALS	50	1.0	11	33	12

SCHEDULES OF QUANTITIES
FAS RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY

ESCA
CONSULTANTS, INC.

DESIGNED BY: JMS 11/07
DRAWN BY: HAS 11/07
CHECKED BY: MTD 01/08
APPROVED BY: RDP 02/08

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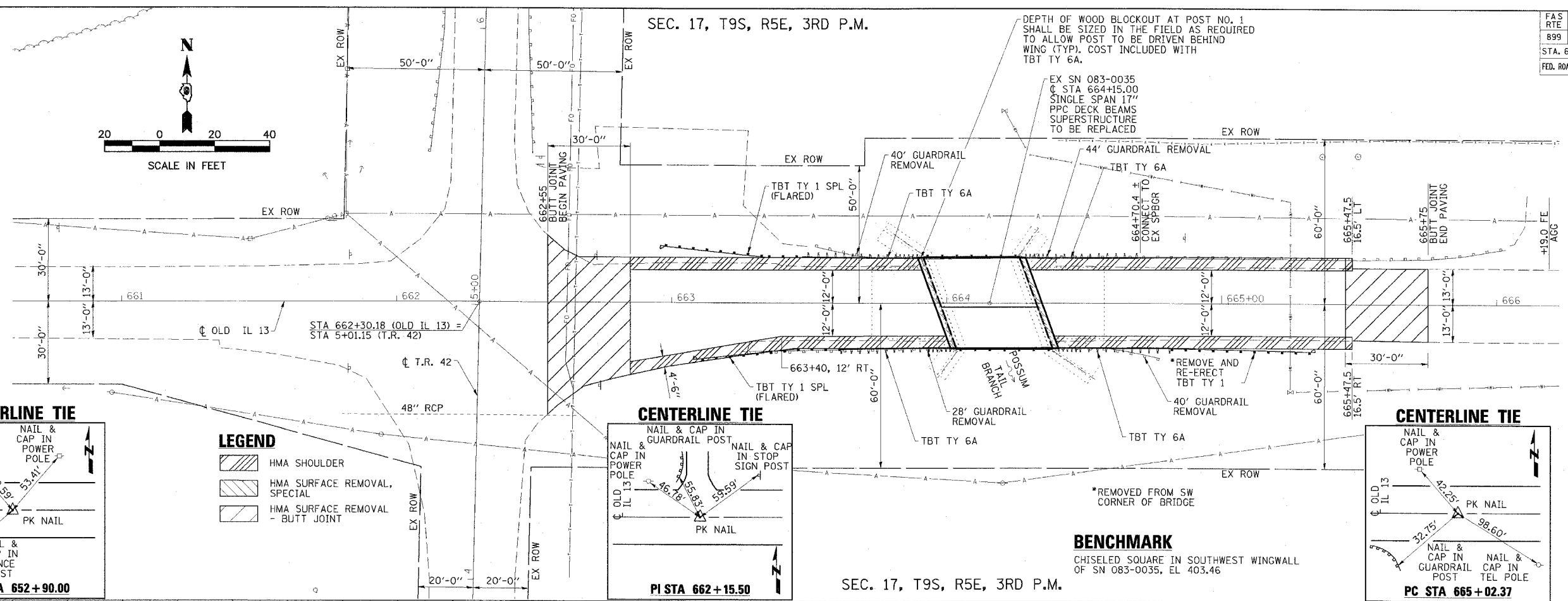


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NO. 20	

CONTRACT NO. 78028

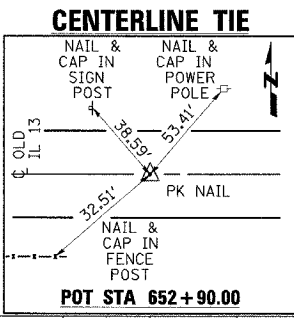
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899	8BR-1	SALINE	75	7
STA. 660+60		TO STA. 666+20		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 17, T9S, R5E, 3RD P.M.



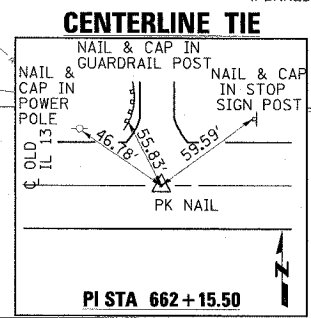
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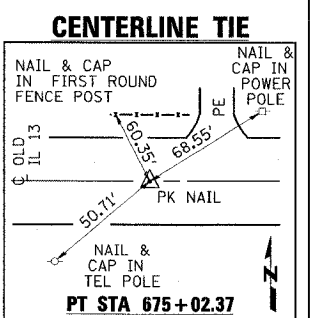
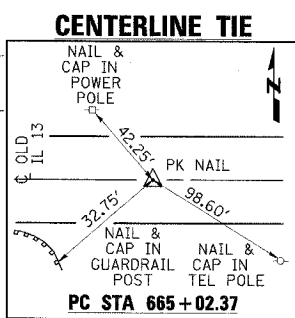


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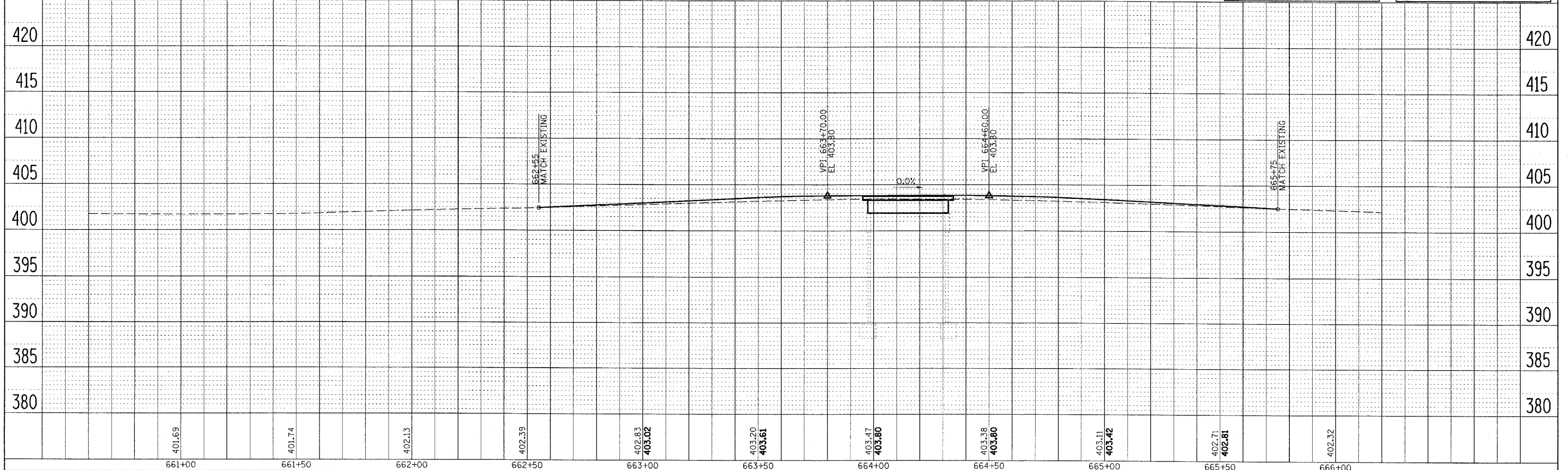
	HMA SHOULDER
	HMA SURFACE REMOVAL, SPECIAL
	HMA SURFACE REMOVAL - BUTT JOINT



BENCHMARK
CHISELED SQUARE IN SOUTHWEST WINGWALL OF SN 083-0035, EL 403.46



DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
NOTED	
NO. 1	
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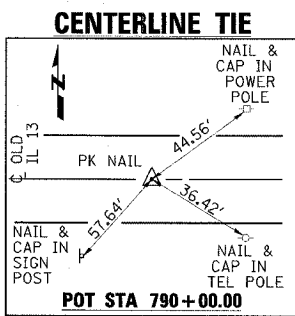
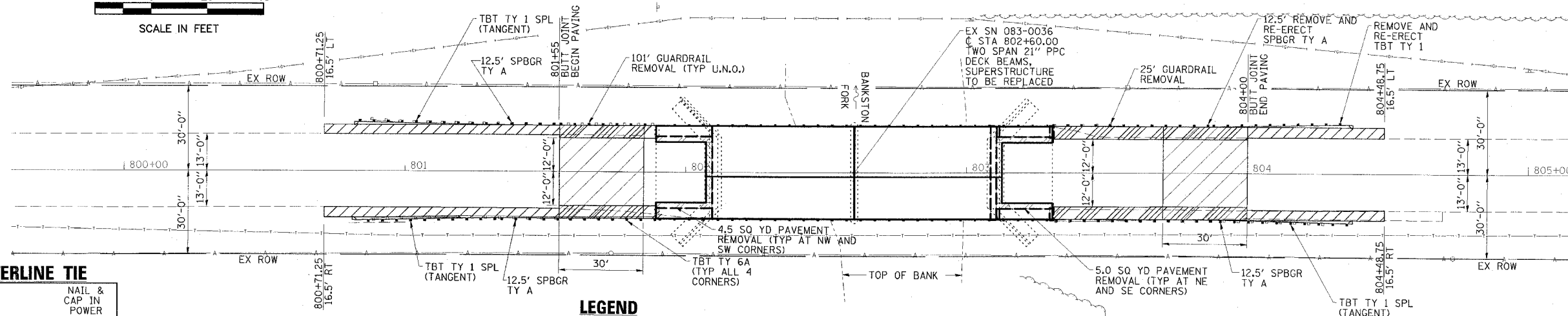
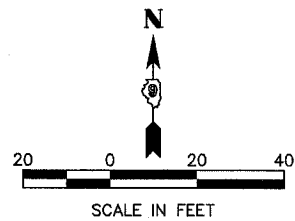


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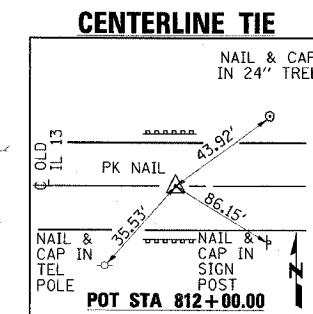


SEC. 14, T9S, R5E, 3RD P.M.

CONTRACT NO. 78028			
FAS RTE	SECTION	COUNTY	TOTAL SHEET NO.
899	BBR-2	SALINE	75 8
STA. 799+50		TO STA. 805+20	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



- LEGEND**
- HMA SHOULDER
 - BASE COURSE WIDENING, 10"
 - HMA SURF REMOVAL - BUTT JOINT
 - PAVEMENT REMOVAL
 - HMA SURF REMOVAL, SPECIAL

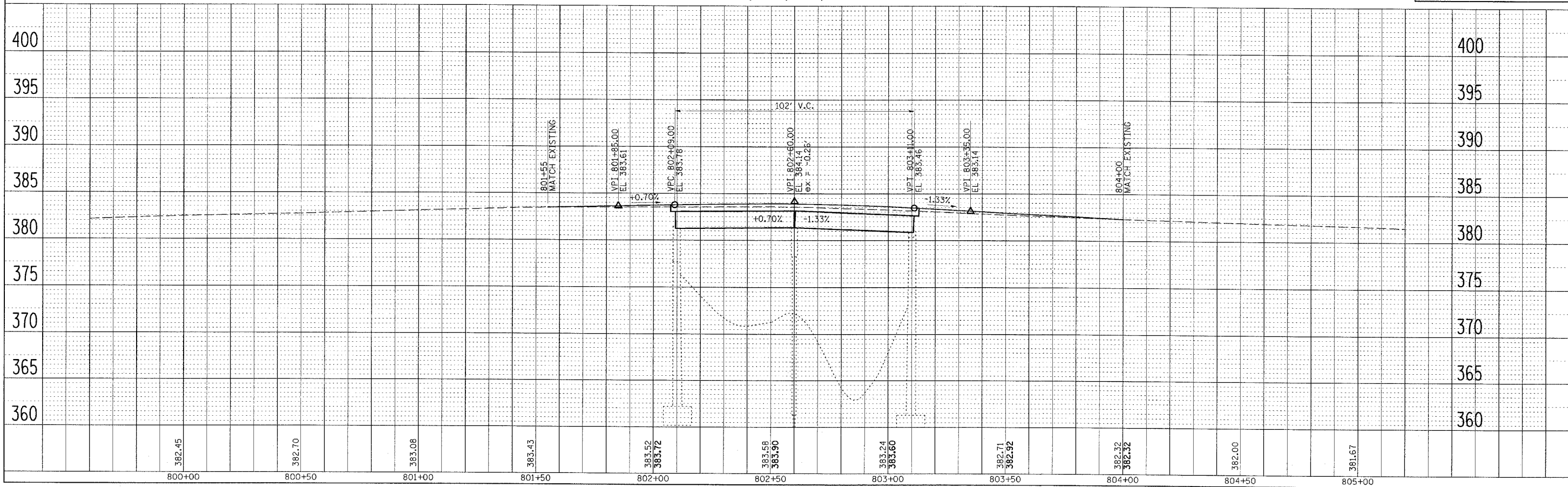


BENCHMARK
RAILROAD SPIKE IN POWER POLE,
STA 803+57, 31' LT, EL 381.09

SEC. 14, T9S, R5E, 3RD P.M.

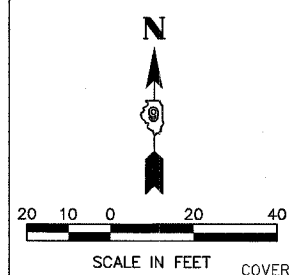
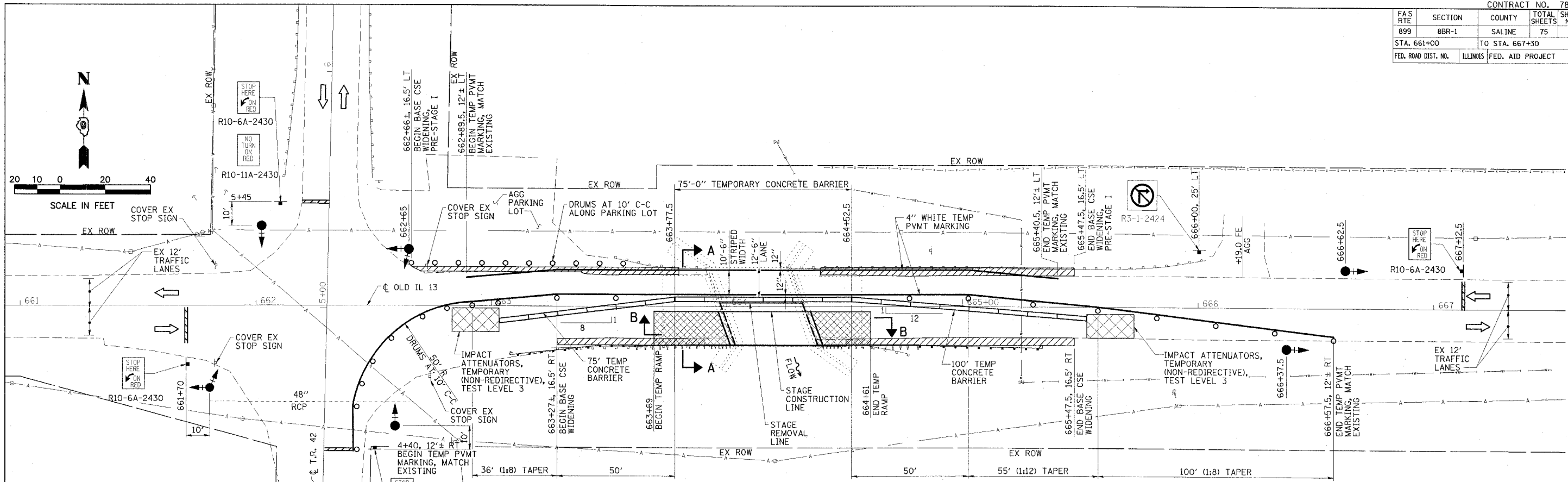
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 NOTE BOOK NO. _____ REVISIONS: _____
 CAD FILE NAME: _____

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FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	9
STA. 661+00		TO STA. 667+30		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



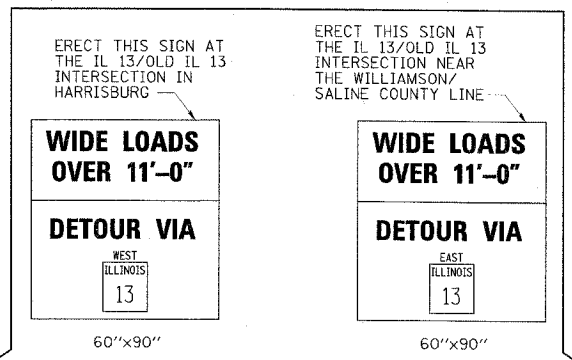
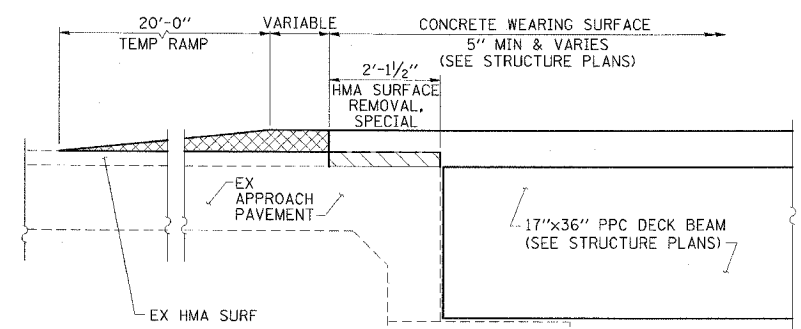
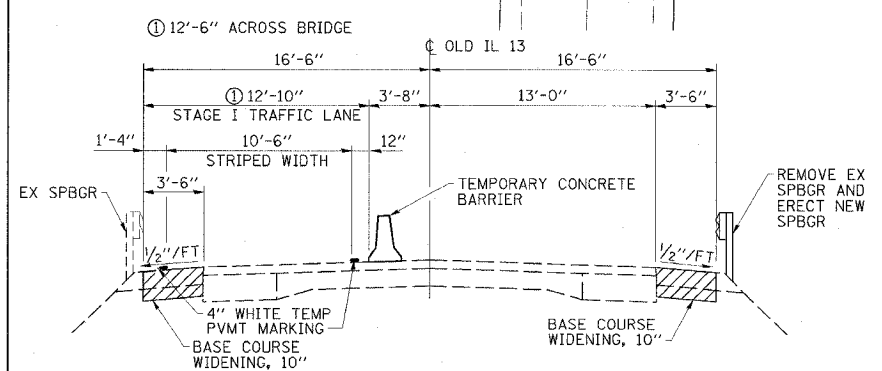
- LEGEND**
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
 - HMA SURFACE REMOVAL, SPECIAL
 - TEMPORARY RAMP
 - BASE COURSE WIDENING, 10"
 - DRUM WITH STEADY BURNING LIGHT

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERCTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(O)-48) SHOWN ON STANDARD 701321 SHALL BE 11'-0" FOR STAGE I CONSTRUCTION.
- TRAFFIC CONTROL BEYOND THE STOP BARS ON THE T.R. 42 SHALL BE ERCTED AS SHOWN ON STANDARD 701321 FOR THE MAIN ROADWAY. THIS INCLUDES SIGNS, DETECTOR LOOPS, AND RUMBLE STRIPS. ADDITIONALLY, AN ADVANCE ARROW SIGN (W6-5) SHALL BE MOUNTED UNDER EACH WIDTH RESTRICTION SIGN ON T.R. 42. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL).

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER	STATION TO	STATION	FEET
	663+02	665+52	250
		TOTAL	250
TEMPORARY BRIDGE TRAFFIC SIGNALS			- 1 EACH
TEMPORARY RUMBLE STRIPS			- 12 EACH
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3			- 2 EACH



DETOUR NOTES

- THE CONTRACTOR SHALL FURNISH THE POSTS AND ERCT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED AND SHALL REMAIN IN PLACE THROUGHOUT STAGE CONSTRUCTION OPERATIONS.
- THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL) AND NO OTHER COMPENSATION WILL BE ALLOWED.

ESCA
CONSULTANTS, INC.

DESIGNED BY: JMS 10/07
 DRAWN BY: CJ/HAS 10/07
 CHECKED BY: DAJ/MTD 01/08
 APPROVED BY: RDP 02/08

SECTION A-A

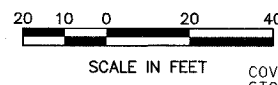
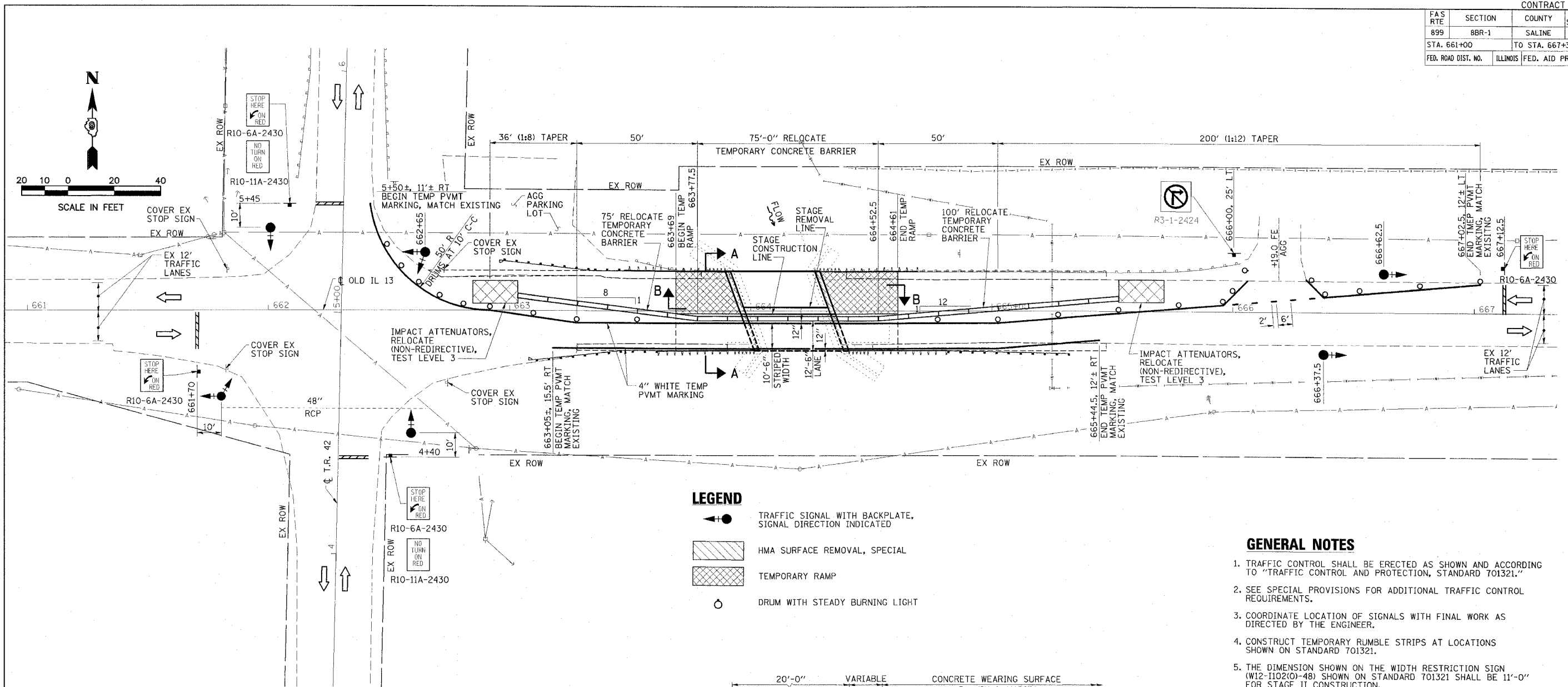
SECTION B

WIDE LOAD DETOUR

STAGE I CONSTRUCTION
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1
SALINE COUNTY



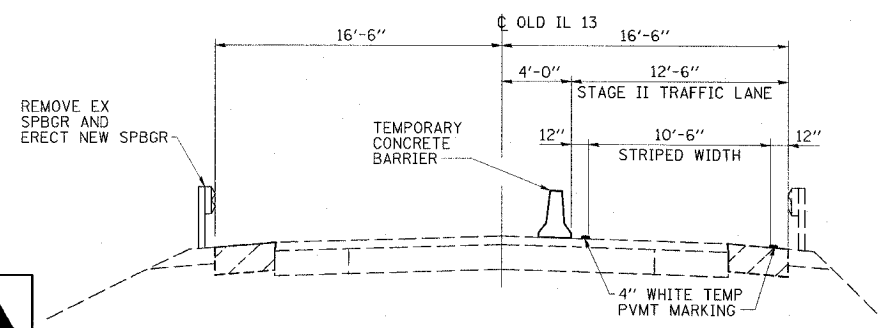
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	BBR-1	SALINE	75	10
STA. 661+00		TO STA. 667+30		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



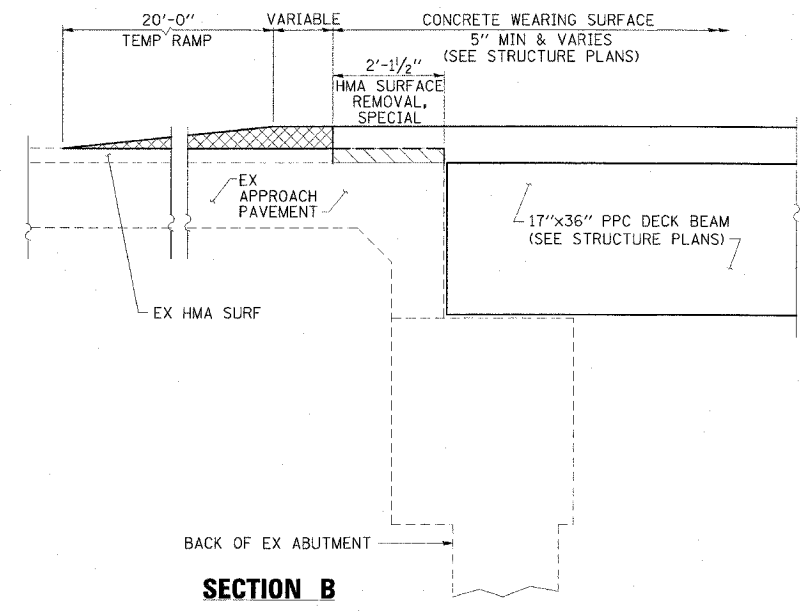
LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- HMA SURFACE REMOVAL, SPECIAL
- TEMPORARY RAMP
- DRUM WITH STEADY BURNING LIGHT

- GENERAL NOTES**
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
 - SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
 - COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
 - CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
 - THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(O)-48) SHOWN ON STANDARD 701321 SHALL BE 11'-0" FOR STAGE II CONSTRUCTION.
 - TRAFFIC CONTROL BEYOND THE STOP BARS ON THE T.R. 42 SHALL BE ERECTED AS SHOWN ON STANDARD 701321 FOR THE MAIN ROADWAY. THIS INCLUDES SIGNS, DETECTOR LOOPS, AND RUMBLE STRIPS. ADDITIONALLY, AN ADVANCE ARROW SIGN (W6-5) SHALL BE MOUNTED UNDER EACH WIDTH RESTRICTION SIGN ON T.R. 42. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL).



SECTION A-A



SECTION B

SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION	IQ	STATION	FEET
663+02		665+52	250
			TOTAL = 250
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH			

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/MTD	01/08
APPROVED BY:	RDP	02/08

STAGE II CONSTRUCTION
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1
SALINE COUNTY



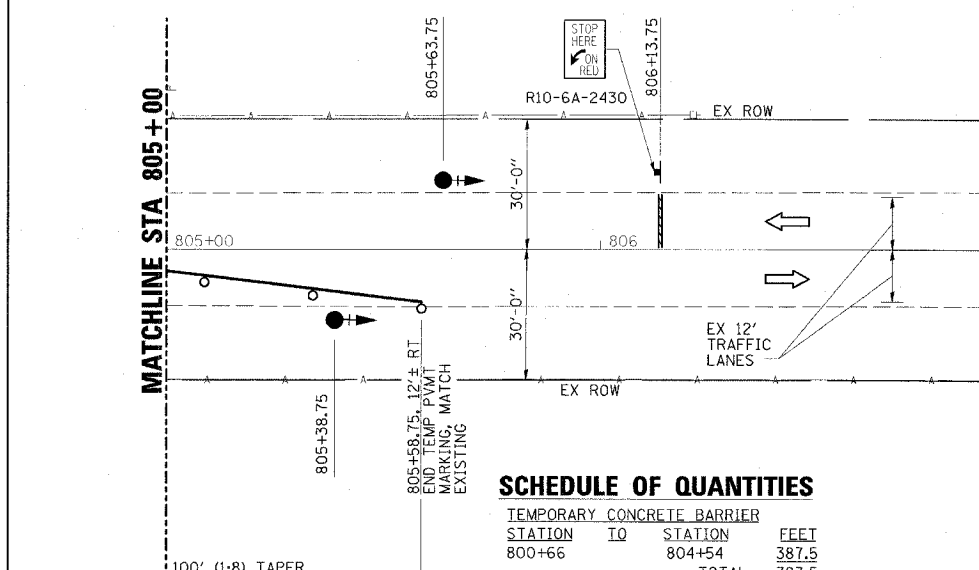
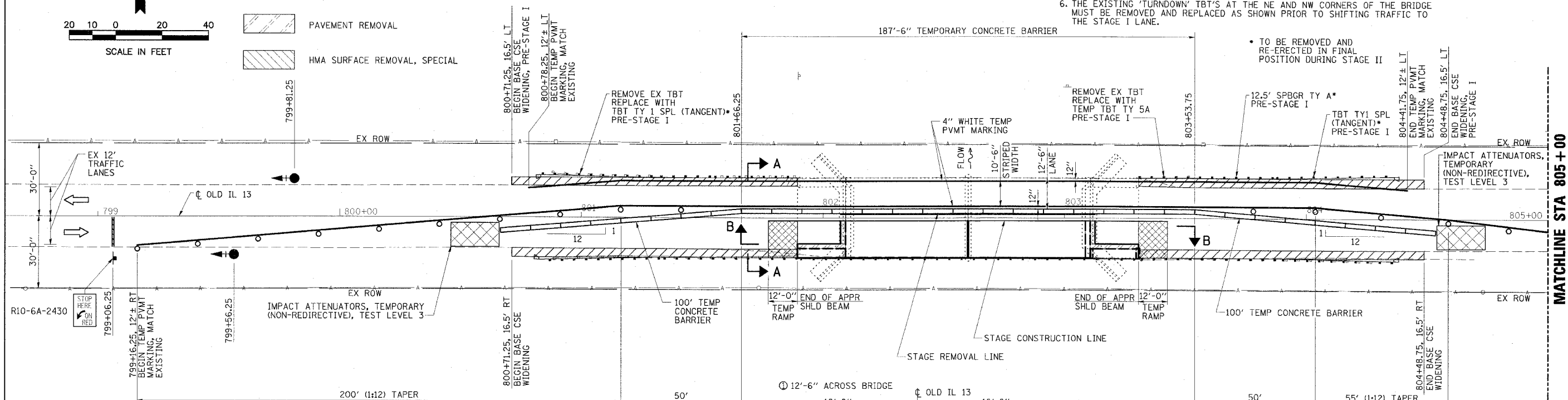
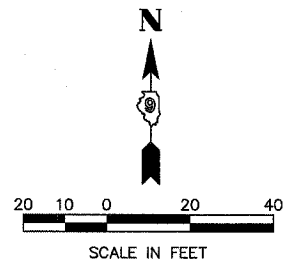
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-2	SALINE	75	11
STA. 798+75		TO STA. 806+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 SHALL BE 11'-0" FOR STAGE II CONSTRUCTION.
6. THE EXISTING 'TURNDOWN' TBT'S AT THE NE AND NW CORNERS OF THE BRIDGE MUST BE REMOVED AND REPLACED AS SHOWN PRIOR TO SHIFTING TRAFFIC TO THE STAGE I LANE.

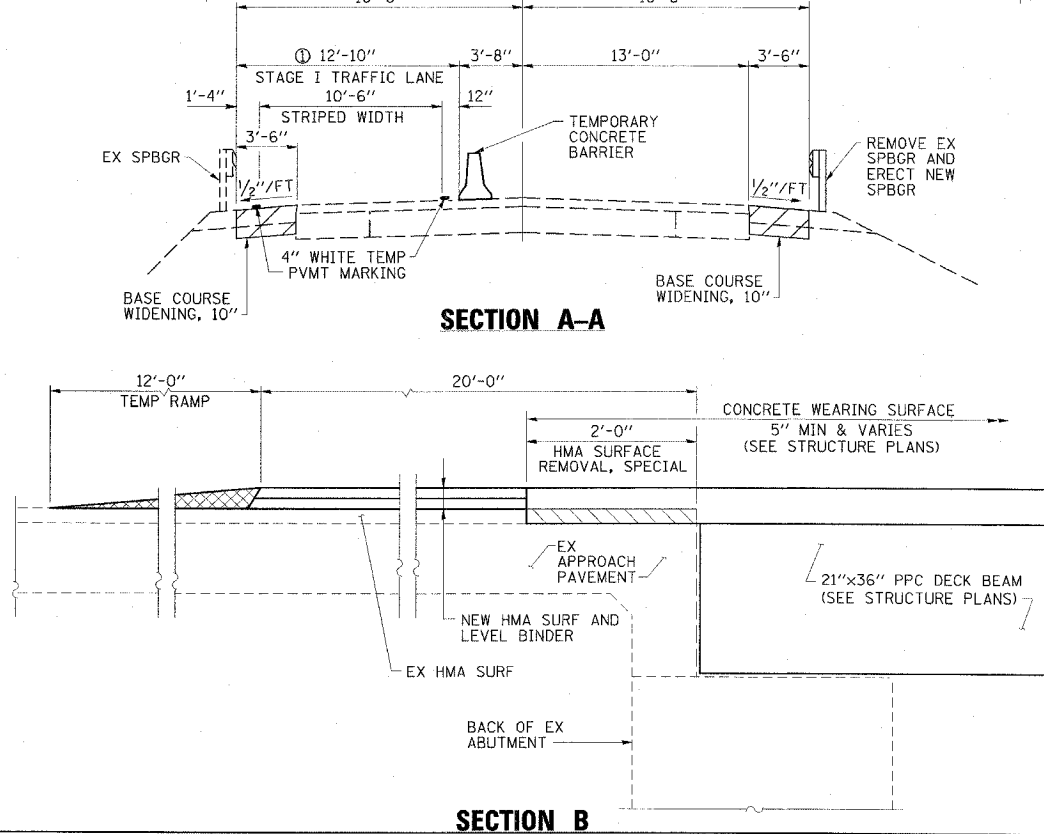
LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- BASE COURSE WIDENING, 10"
- TEMPORARY RAMP
- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL



SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER		
STATION TO	STATION	FEET
800+66	804+54	387.5
TOTAL		387.5
TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH		
TEMPORARY RUMBLE STRIPS - 6 EACH		
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH		



ERECT THIS SIGN AT THE IL 13/OLD IL 13 INTERSECTION IN HARRISBURG

WIDE LOADS OVER 11'-0"

DETOUR VIA

60"x90"

ERECT THIS SIGN AT THE IL 13/OLD IL 13 INTERSECTION NEAR THE WILLIAMSON/SALINE COUNTY LINE

WIDE LOADS OVER 11'-0"

DETOUR VIA

60"x90"

DETOUR NOTES

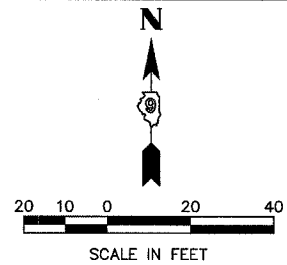
1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED AND SHALL REMAIN IN PLACE THROUGHOUT STAGE CONSTRUCTION OPERATIONS.
2. THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 AND NO OTHER COMPENSATION WILL BE ALLOWED.

WIDE LOAD DETOUR

ESCA CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/MTD	01/08
APPROVED BY:	RDP	02/08

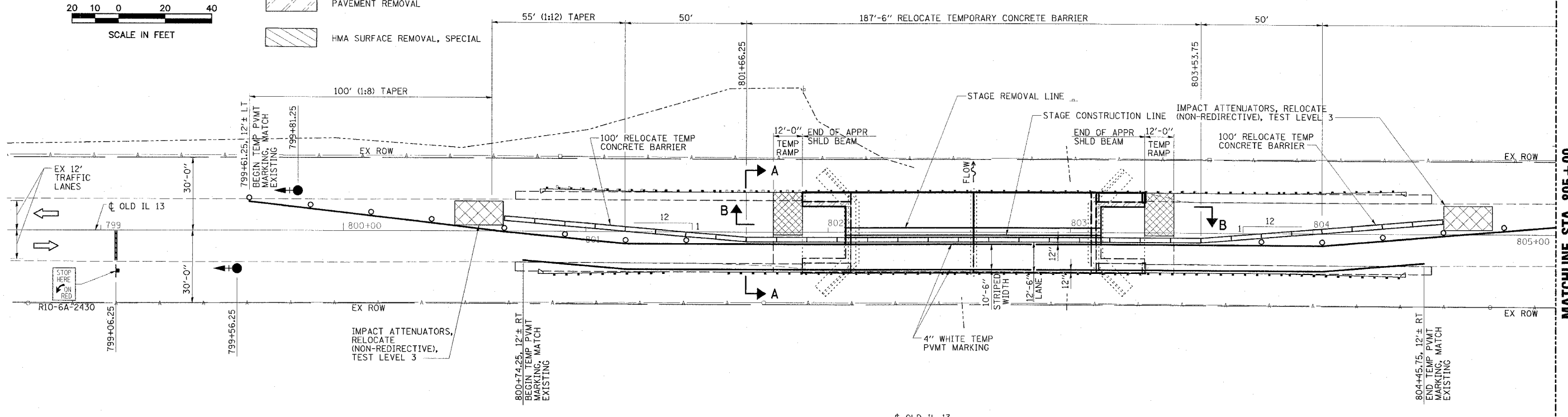
STAGE I CONSTRUCTION
FAP RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY



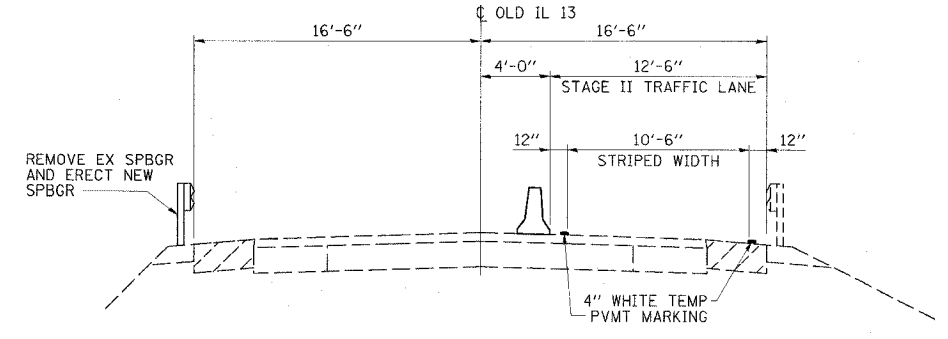
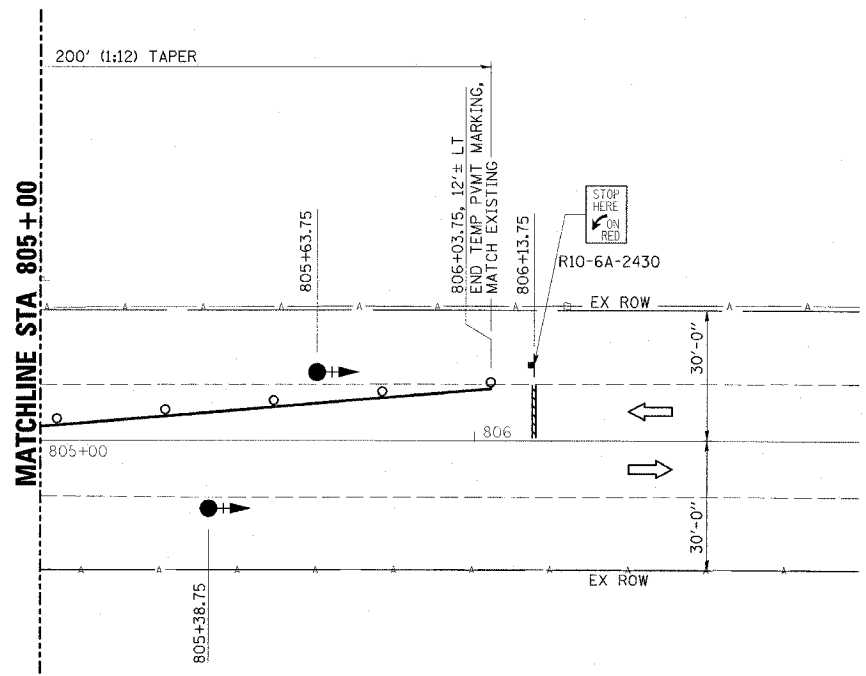
LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- TEMPORARY RAMP
- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, SPECIAL

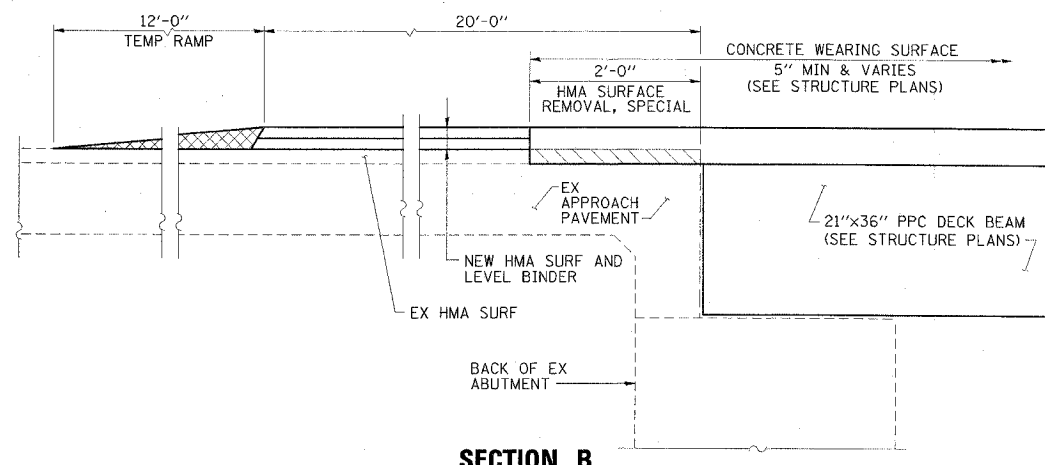
CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-2	SALINE	75	12
STA. 798+75		TO STA. 806+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



MATCHLINE STA 805+00



SECTION A-A



SECTION B

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(O)-48) SHOWN ON STANDARD 701321 SHALL BE 11'-0" FOR STAGE II CONSTRUCTION.

SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER		
STATION TO	STATION	FEET
800+66	804+54	387.5
		TOTAL - 387.5
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH		

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/MTD	01/08
APPROVED BY:	RDP	01/08

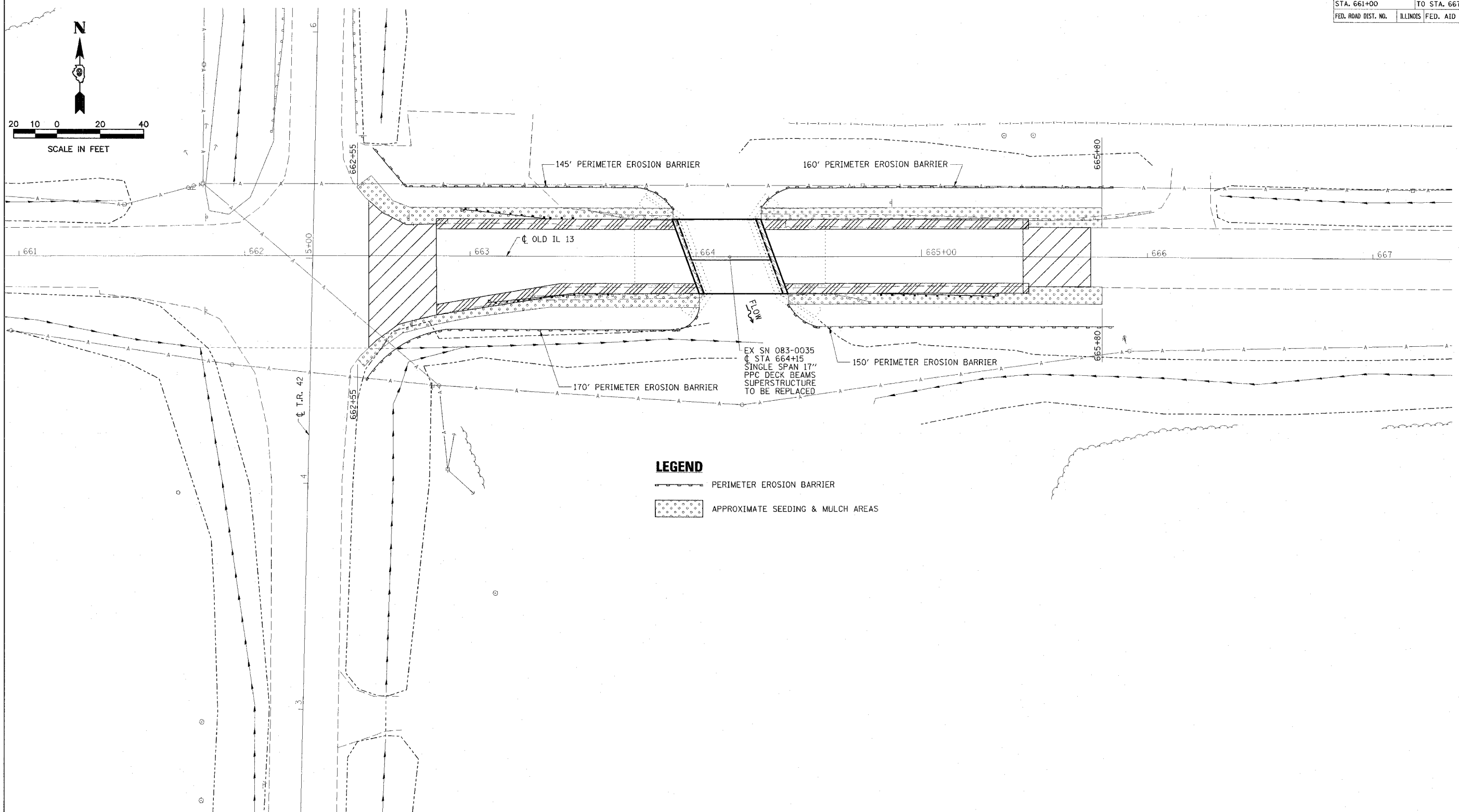
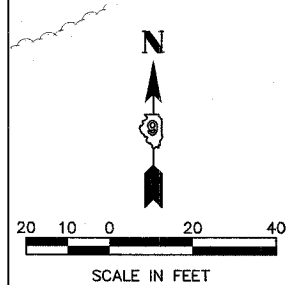
STAGE II CONSTRUCTION
FAP RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY



CIVIL & SURVEYING ENGINEERS
 ILLINOIS

CONTRACT NO. 78028

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	13
STA. 661+00		TO STA. 667+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

	PERIMETER EROSION BARRIER
	APPROXIMATE SEEDING & MULCH AREAS

ESCA
 CONSULTANTS, INC.

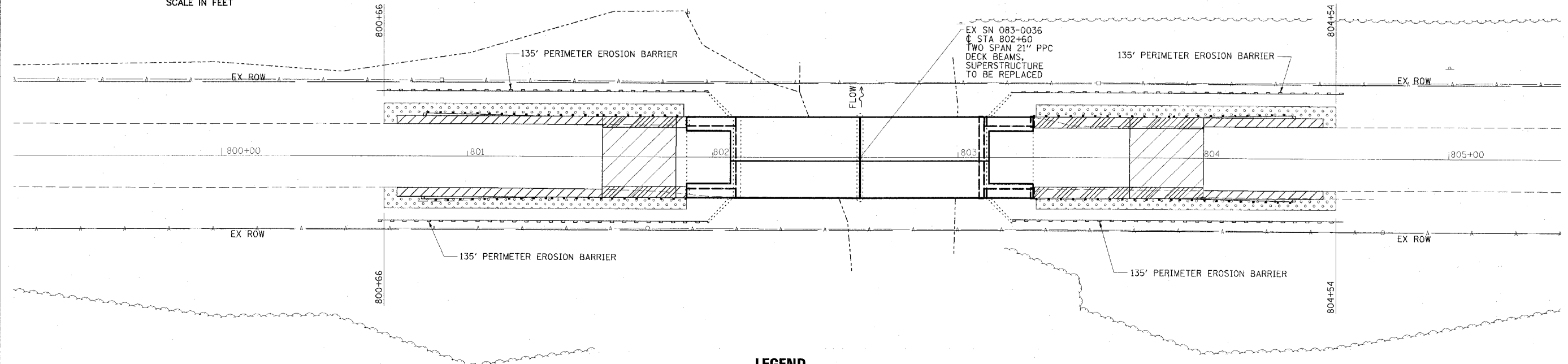
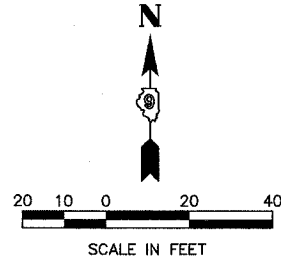
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/MTD	01/08
APPROVED BY:	RDP	02/08

**EROSION CONTROL
 AND DRAINAGE PLAN**
 FAS RTE 899 (OLD IL 13)
 SECTION 8BR-1
 SALINE COUNTY



CONTRACT NO. 78028

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-2	SALINE	75	14
STA. 799+50		TO STA. 805+20		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



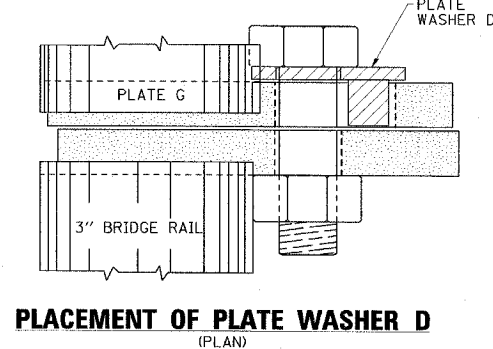
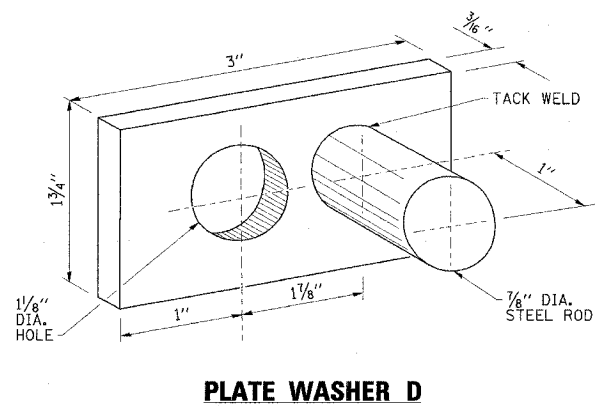
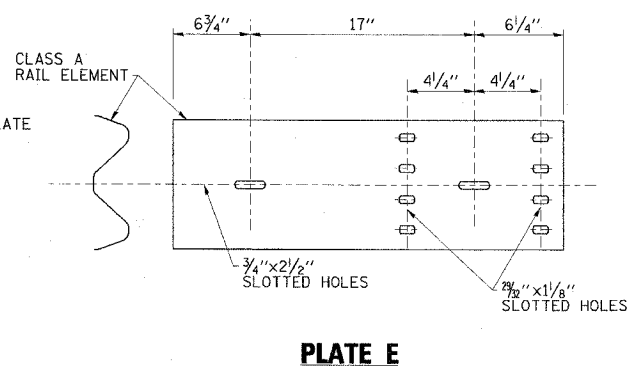
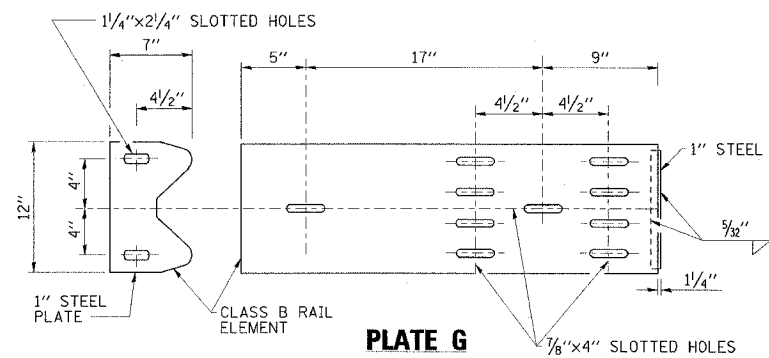
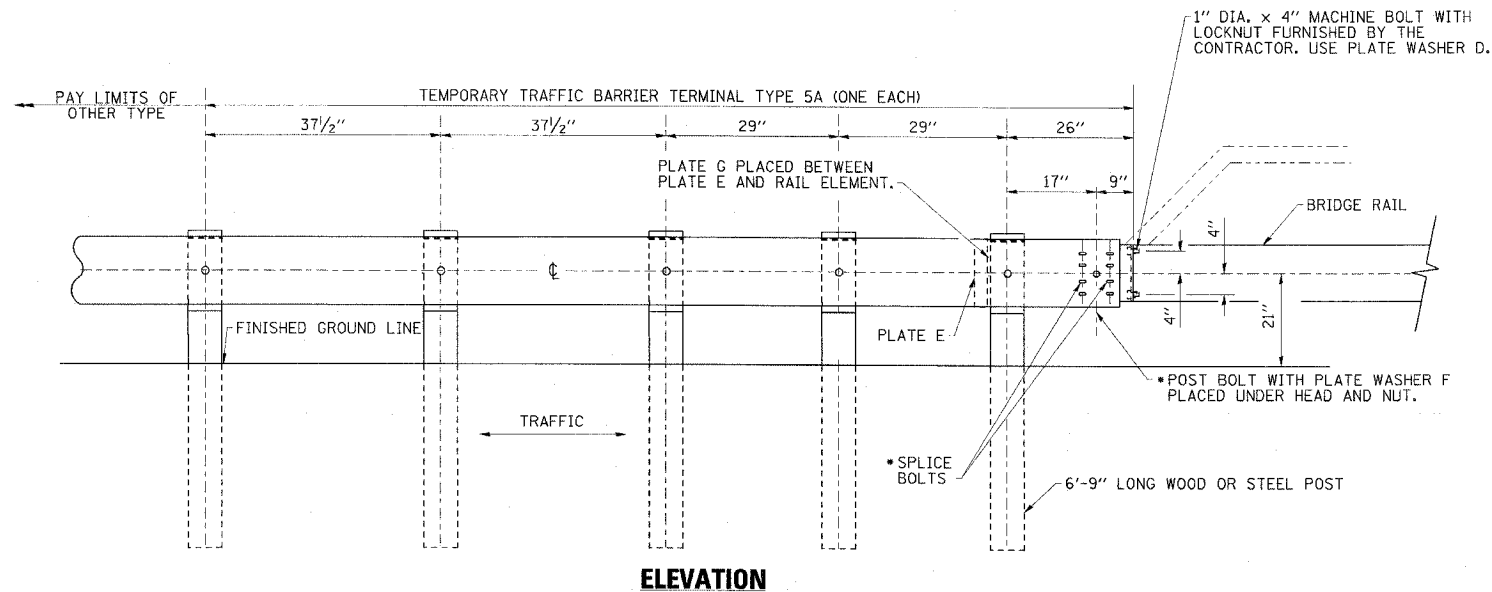
LEGEND

- PERIMETER EROSION BARRIER
- APPROXIMATE SEEDING & MULCH AREAS

ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/MTD	01/08
APPROVED BY:	RDP	02/08

**EROSION CONTROL
AND DRAINAGE PLAN
FAS RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY**

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	•	SALINE	75	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
•8BR-1, 8BR-2				



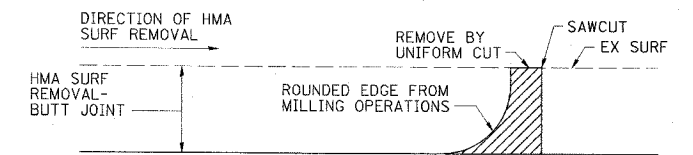
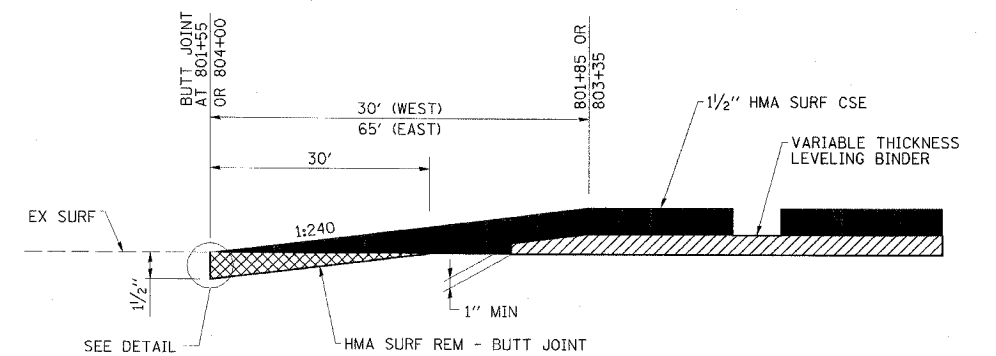
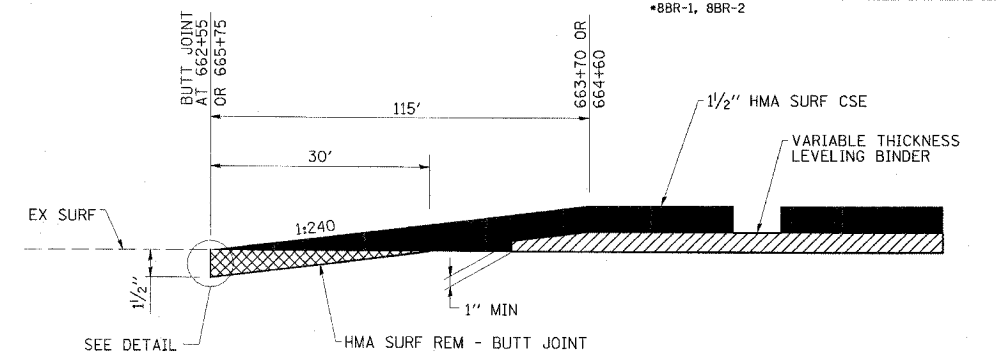
GENERAL NOTES

INSTALL PLATE WASHER D SO THAT THE 1" PROJECTION FILLS THE REMAINDER OF THE SLOTTED HOLES IN THE 1" END PLATE ON PLATE G AFTER THE 1" DIA. BOLTS ARE IN PLACE.

• BOLTS SHALL BE PROVIDED WITH LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW PLATE G TO BE FREE TO MOVE WHEN AN EXPANSION JOINT EXISTS BELOW THE CONNECTOR.

SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 5A



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE COST OF ALL WORK SHOWN IN THE DETAIL IS INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	11/07
DRAWN BY:	KAH	11/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	02/08

MISCELLANEOUS DETAILS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1, 8BR-2
SALINE COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET NO.	SHEET TOTAL
FAS 899	8BR-1	SALINE	75	16	13 SHEETS
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					

78028

BENCHMARK: Chiseled square on southwest wingwall of SN 083-0035, Sta. 663+98, 17' Rt., Elev. 403.46.

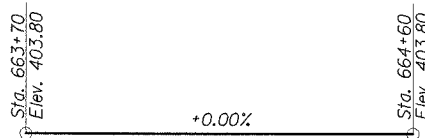
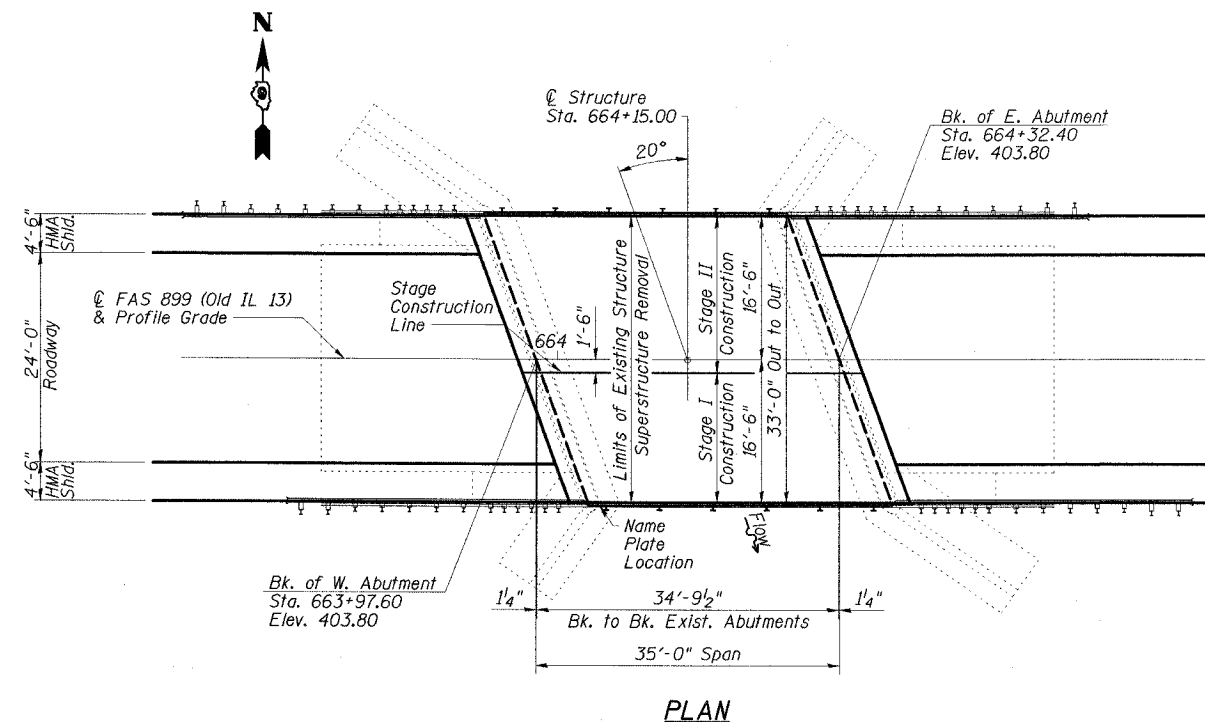
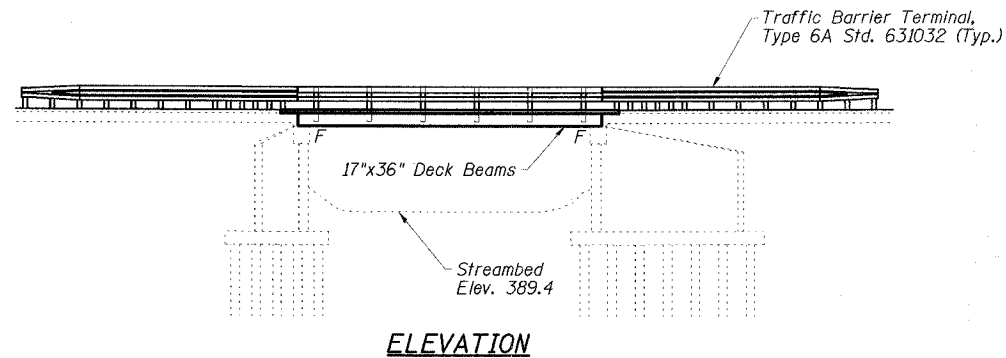
EXISTING STRUCTURE: SN 083-0035 was originally built as S.B.I. 13, Section 8B-1 Sta. 664+15 in 1942. The superstructure originally consisted of a reinforced concrete slab, 31.8' out to out, on 34.8' back to back reinforced concrete closed abutments on timber piles. In 1980, the superstructure was replaced utilizing 17" PPC deck beams. The out-to-out width is 33'-0". The existing superstructure shall be removed and replaced utilizing stage construction.

No salvage

STATION 664+15.00
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 899 SEC. 8BR-1
LOADING HS20
STR. NO. 083-0035

NAME PLATE

Note: See Std. 515001
Existing Name Plate shall be cleaned and relocated adjacent to the new plate. Cost included with Name Plates.



ESCA
CONSULTANTS, INC.

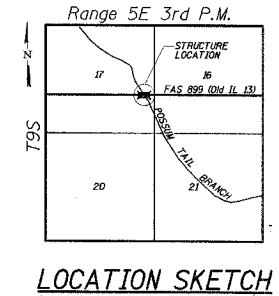
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	02/08
APPROVED BY:	RDP	02/08

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph C. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
SEAL OF PROFESSIONAL ENGINEERS
No. 4647
EXPIRES 11-30-08
Ralph C. Anderson
SIGNATURE
02/29/08
DATE

DESIGN SPECIFICATION
2002 AASHTO
LOADING HS20-44
No allowance for future wearing surface
DESIGN STRESSES
FIELD UNITS
f'c = 5,000 psi (Concrete Wearing Surface)
f'c = 3,500 psi (All concrete except CWS)
fy = 60,000 psi (reinf.)
PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fs = 270,000 psi (1/2" low lax strands)
fsi = 201,960 psi (1/2" low lax strands)



- SCOPE OF WORK**
1. Remove existing surfacing, steel railing, and deck beams.
 2. Repair beam bearing seats and perform other repairs at abutments as required.
 3. Reconstruct a one-span PPC Deck Beam superstructure with Concrete Wearing Surface and Steel Railing, Type SM.

GENERAL PLAN
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAS 899	BBR-1	SALINE	75	17
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

78028

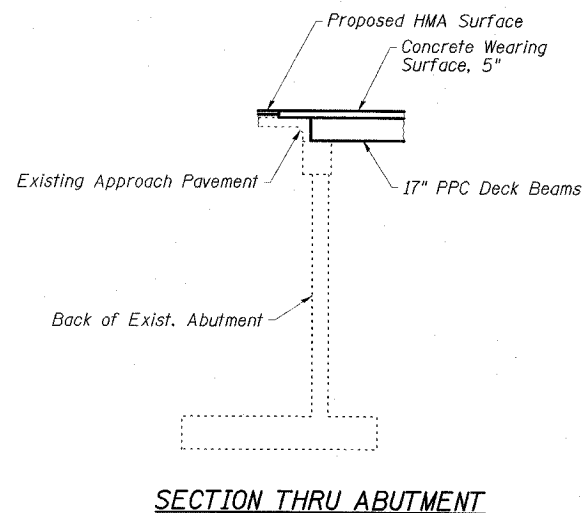
13 SHEETS

GENERAL NOTES

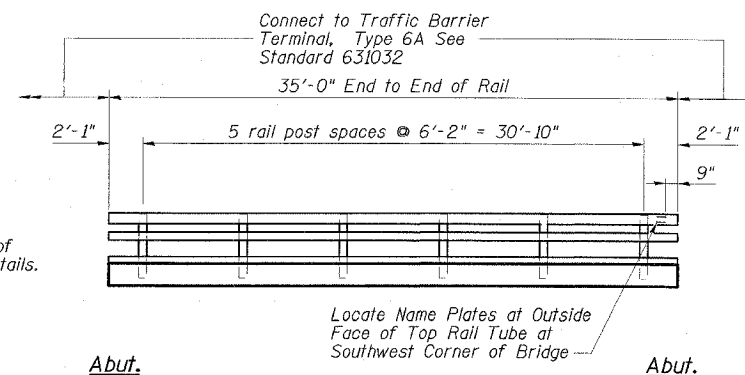
1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60 (IL Modified). See Special Provisions.
2. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and 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 based upon the unit price bid for the work.
3. Concrete Sealer shall be applied to abutment bearing seats and backwalls where Structural Repair of Concrete is performed.
4. No in-stream work will be allowed on this project.
5. The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
6. The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber. Modify to meet field conditions as directed by the Engineer.
7. Repair of the substructure shall be completed prior to placement of the new deck beams.
8. If Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the new or existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Precast Prestressed Concrete Deck Beams (17" Depth).
9. Temporary Wall Bracing System shall be used to stabilize the closed abutments prior to removal of the existing superstructure, see Special Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures No. 1	Each	1	-	1
Bridge Deck Grooving	Sq. Yd.	136	-	136
Protective Coat	Sq. Yd.	144	-	144
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1155	-	1155
Reinforcement Bars, Epoxy Coated	Pound	1770	-	1770
Bar Splacers	Each	38	-	38
Steel Railing, Type SM	Foot	70	-	70
Name Plates	Each	1	-	1
Concrete Sealer	Sq. Ft.	-	30	30
Epoxy Crack Injection	Foot	-	56	56
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	-	39	39
Concrete Wearing Surface, 5"	Sq. Yd.	144	-	144
Temporary Wall Bracing System	L. Sum	-	1	1



Note:
See Dwg. No. 9 of
13 for Railing Details.



RAILING ELEVATION
(Showing Inside Face of North Railing;
South Railing Similar)

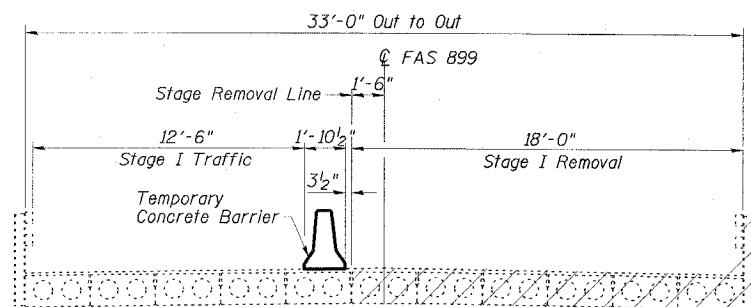
ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	02/08
APPROVED BY:	RDP	02/08

GENERAL DATA
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

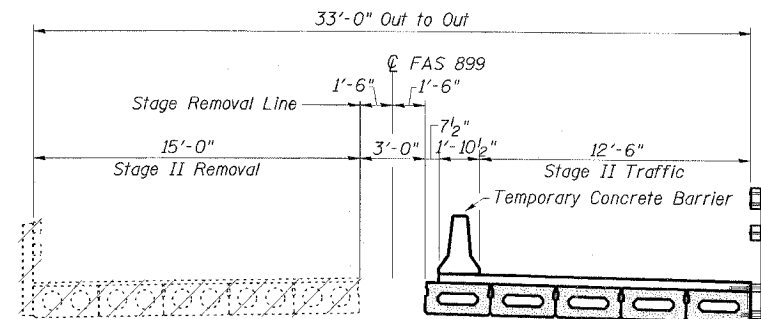
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAS 899	8BR-1	SALINE	75	18
FED. ROAD DIST. NO. 4				ILLINOIS
78028				FED. AID PROJECT

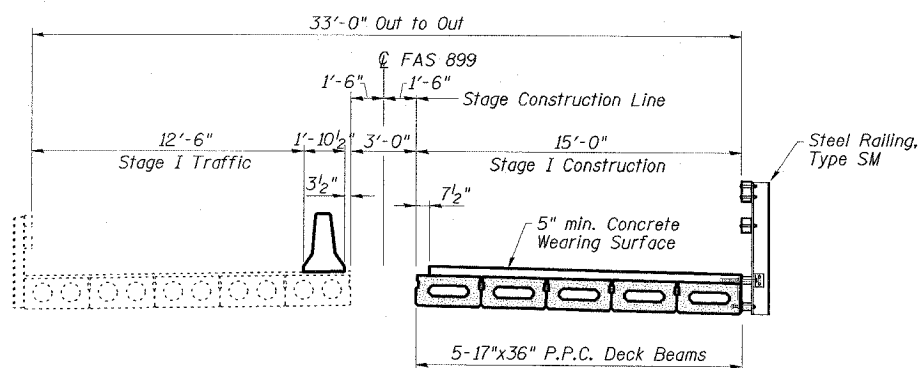
13 SHEETS



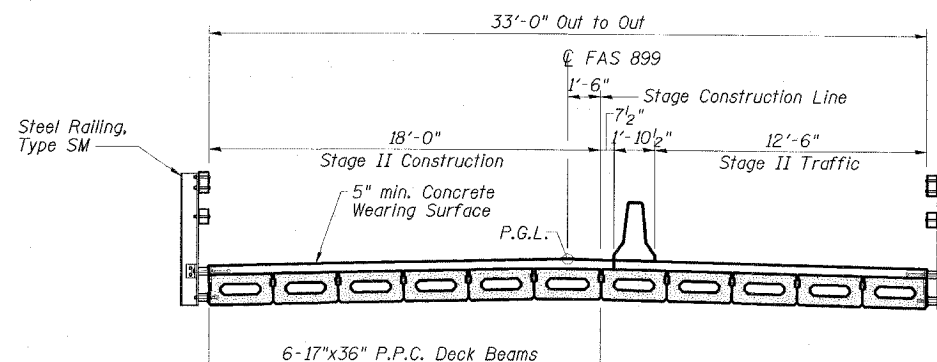
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

STAGE CONSTRUCTION NOTES

1. All staging sections are looking East.
2. See Dwg. No. 5 of 13 for shear key clamping details.
3. For quantity of Temporary Concrete Barrier, see Roadway Plans.

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

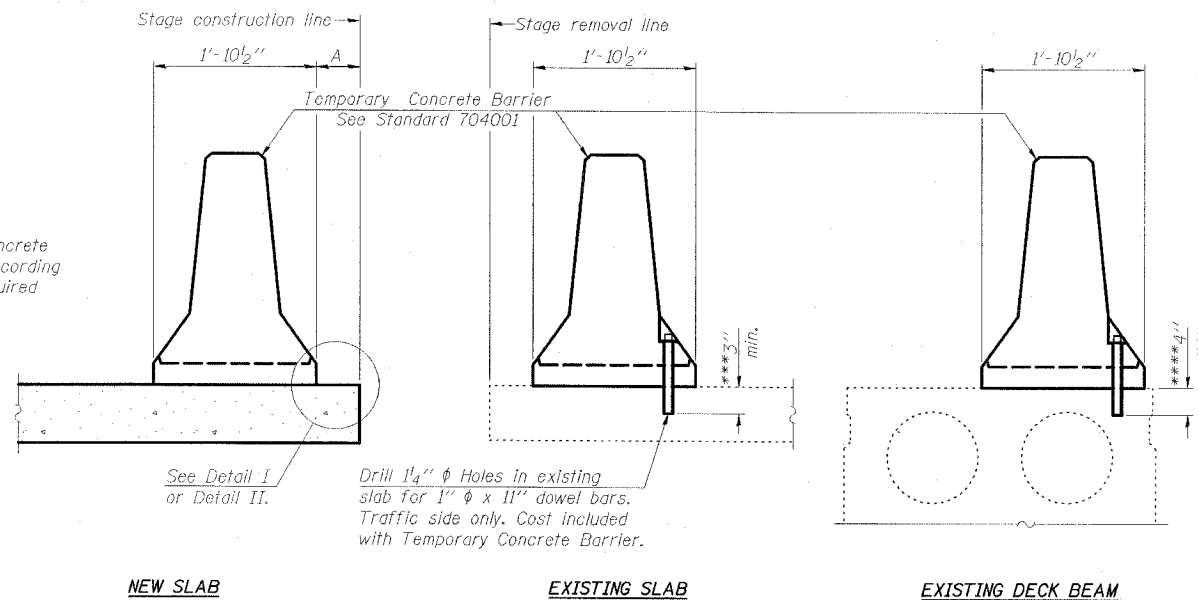
STAGE CONSTRUCTION DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET
FAS 899	BBR-1	SALINE	75	19
FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT	

78028

SHEET NO. 4
13 SHEETS



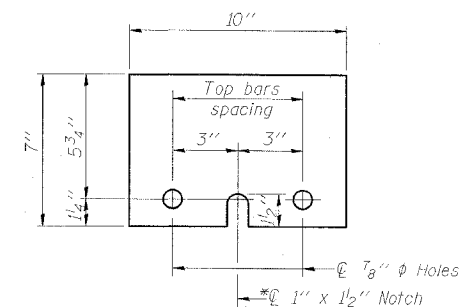
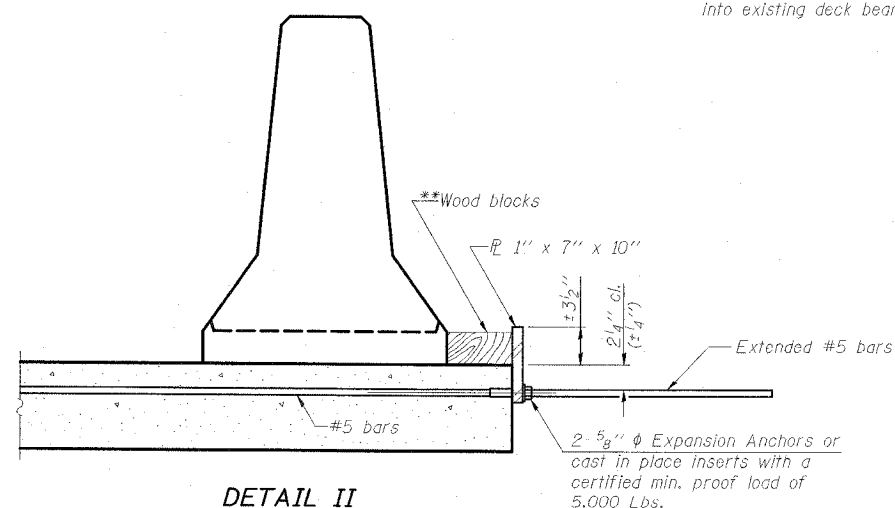
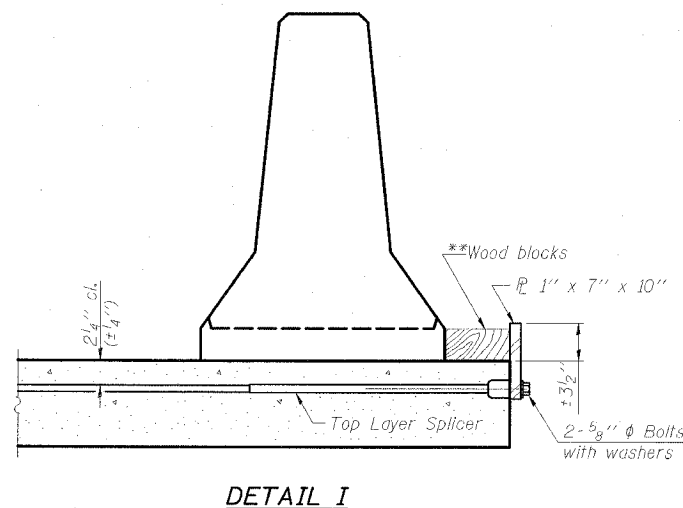
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
 - Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

- ***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



STEEL RETAINER \bar{P} 1" x 7" x 10"
* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
FAS 899	8BR-1	SALINE	75	20	13 SHEETS

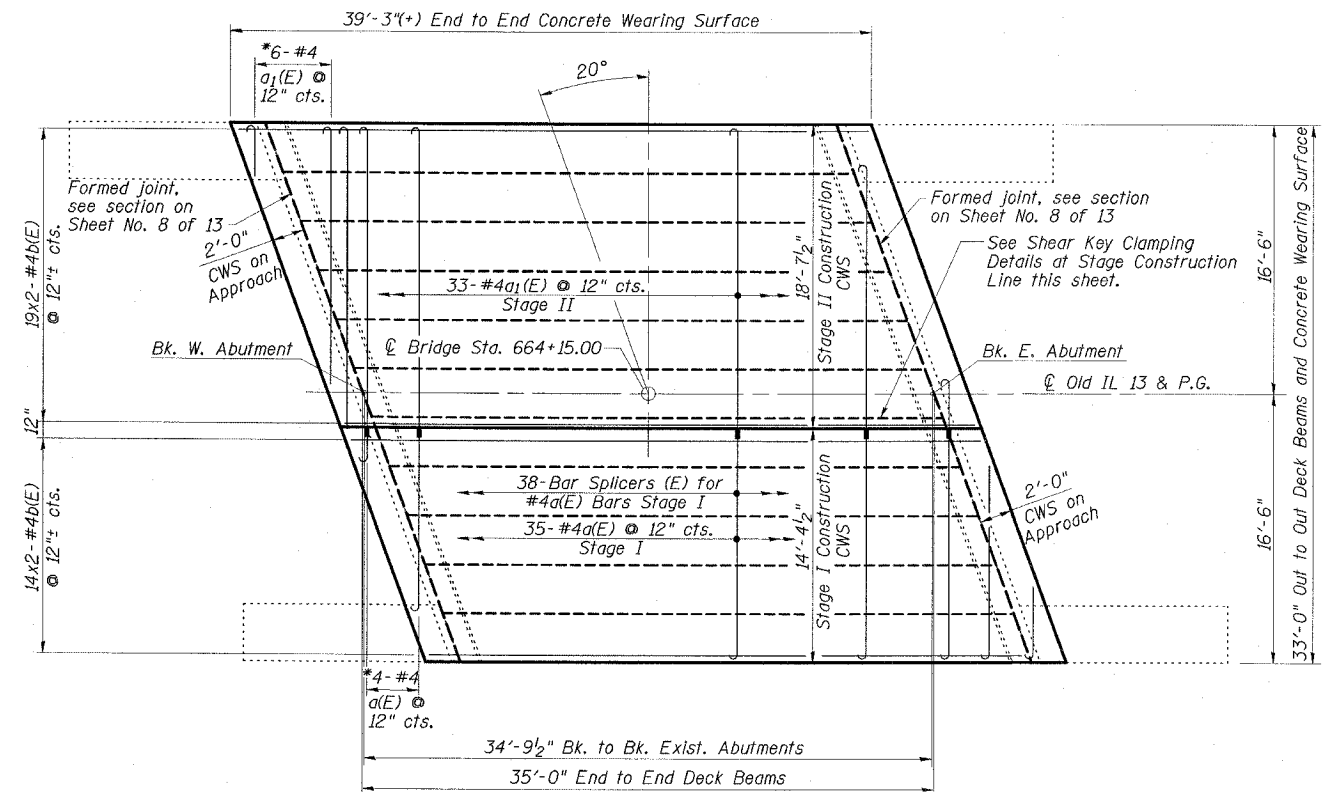
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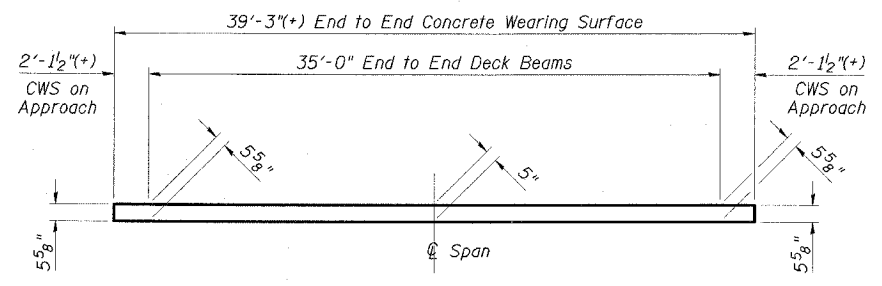
* Order bars full length. Cut to fit skew and use remainder of bars at other end of deck

Note:
Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 14x2-#4 etc. indicates 14 lines of bars with 2 lengths per line. For remainder of superstructure details, see drawings 6 thru 8 of 13.

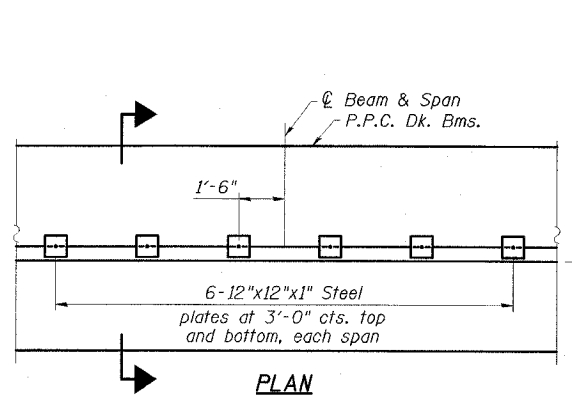
MIN. BAR LAP
#4 bar = 1'-8"



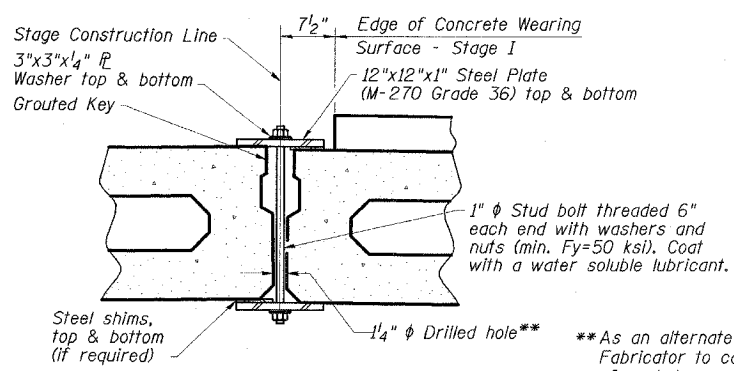
PLAN - WEARING SURFACE



REINFORCED CONCRETE WEARING SURFACE PROFILE
(At edge of bridge deck)

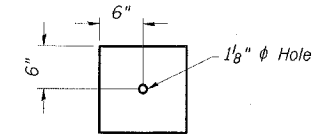


PLAN



SECTION

Note:
See Stage Construction Details for traffic lanes. Cost is included with Precast Prestressed Concrete Deck Beams.

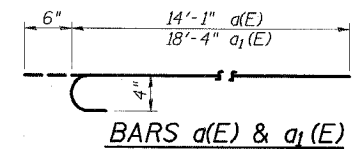


CLAMPING PLATE

**As an alternate to the drilled holes, the Contractor may request the Fabricator to cast 2" diameter semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate location for the clamping device bolts. If the Contractor elects to use this alternate, the details shall be identified on the shop drawings.

**CONCRETE WEARING SURFACE
BILL OF MATERIAL**

Bar No.	Size	Length	Shape
a(E)	39 #4	14'-7"	
a1(E)	39 #4	18'-10"	
b(E)	66 #4	20'-4"	
Reinforcement Bars, Epoxy Coated			Pound 1770
Concrete Wearing Surface, 5"			Sq. Yd. 144
Bridge Deck Grooving			Sq. Yd. 136
Bar Splicers			Each 38
Protective Coat			Sq. Yd. 144



BARS a(E) & a1(E)

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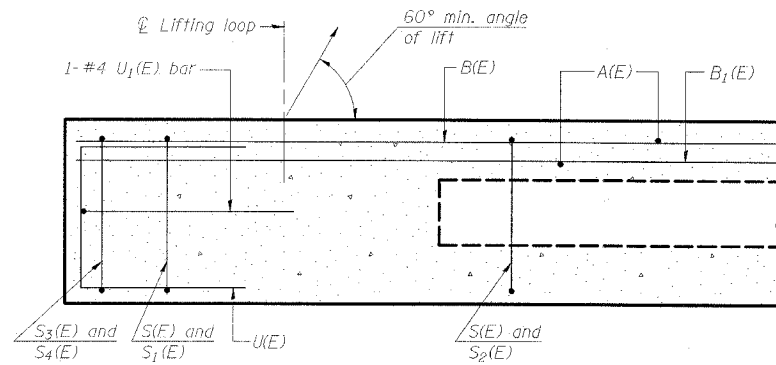
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

SUPERSTRUCTURE
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

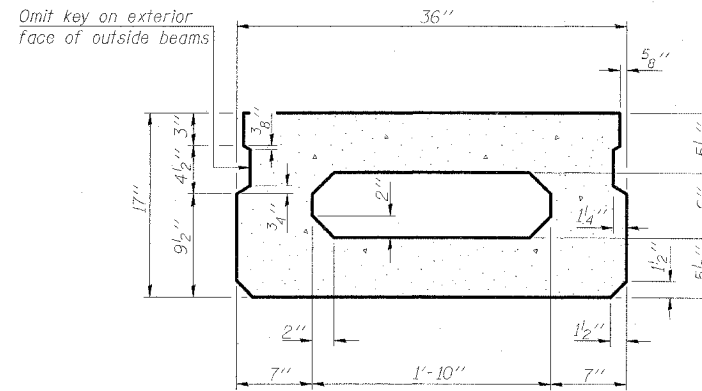
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.	SHEET NO. 6 13 SHEETS
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FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-			

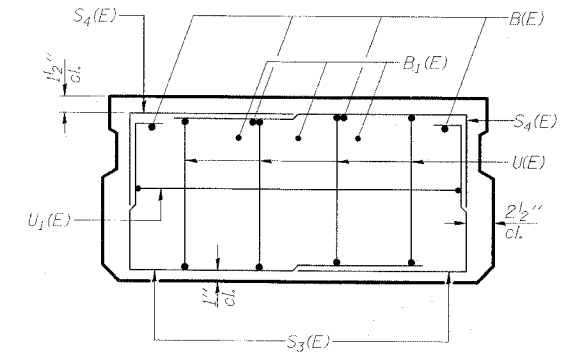
78028



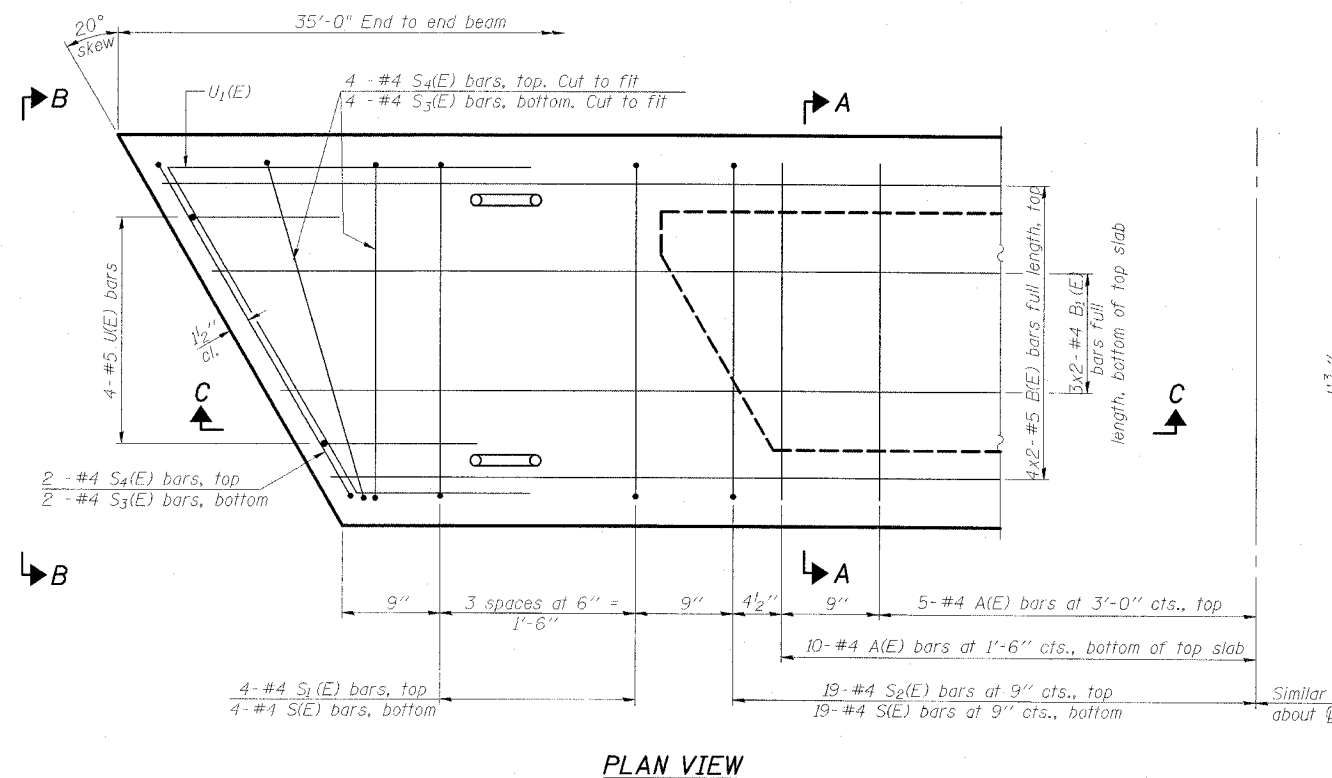
SECTION C-C



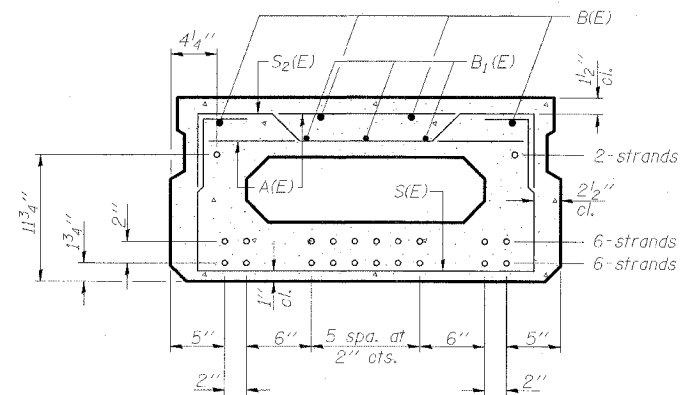
SECTION A-A
(Showing dimensions)



VIEW B-B



PLAN VIEW



SECTION A-A

(Showing reinforcement and permissible strand locations)

14 - 1/2" strands, each strand stressed to 30,900 lbs.

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	30	#4	2'-7"	—
B(E)	8	#5	19'-7"	—
B1(E)	6	#4	19'-1"	—
S(E)	46	#4	5'-9"	U
S1(E)	8	#4	4'-11"	U
S2(E)	38	#4	5'-2"	U
S3(E)	6	#4	4'-4"	U
S4(E)	6	#4	3'-11"	U
U(E)	8	#5	3'-8"	U
U1(E)	2	#4	6'-1"	U

Note: See Sheet No. 7 of 13 for additional details and Bill of Material

MIN. BAR LAP
#5 bar = 2'-2"

Notes: 1. Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

2. Adjust reinforcement locations to clear dowel holes at fixed ends.

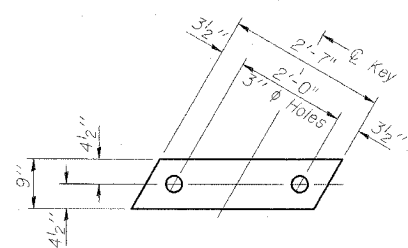
ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

SUPERSTRUCTURE DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

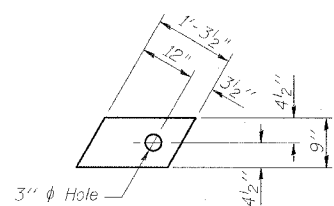
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAS 899	8BR-1	SALINE	75 22	13 SHEETS
FED. ROAD DIST. NO.		SHEETS		FED. AID PROJECT

78028

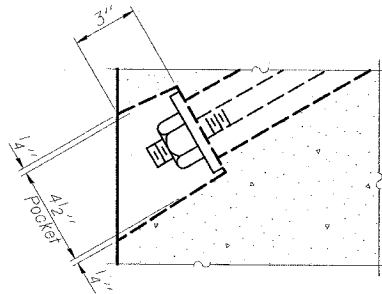


FABRIC BEARING PAD
(Interior)

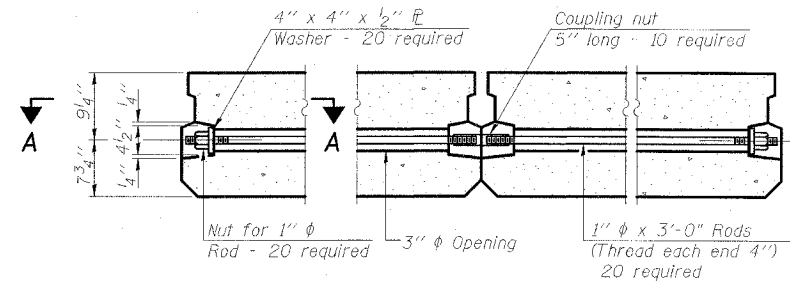


FABRIC BEARING PAD
(Exterior)

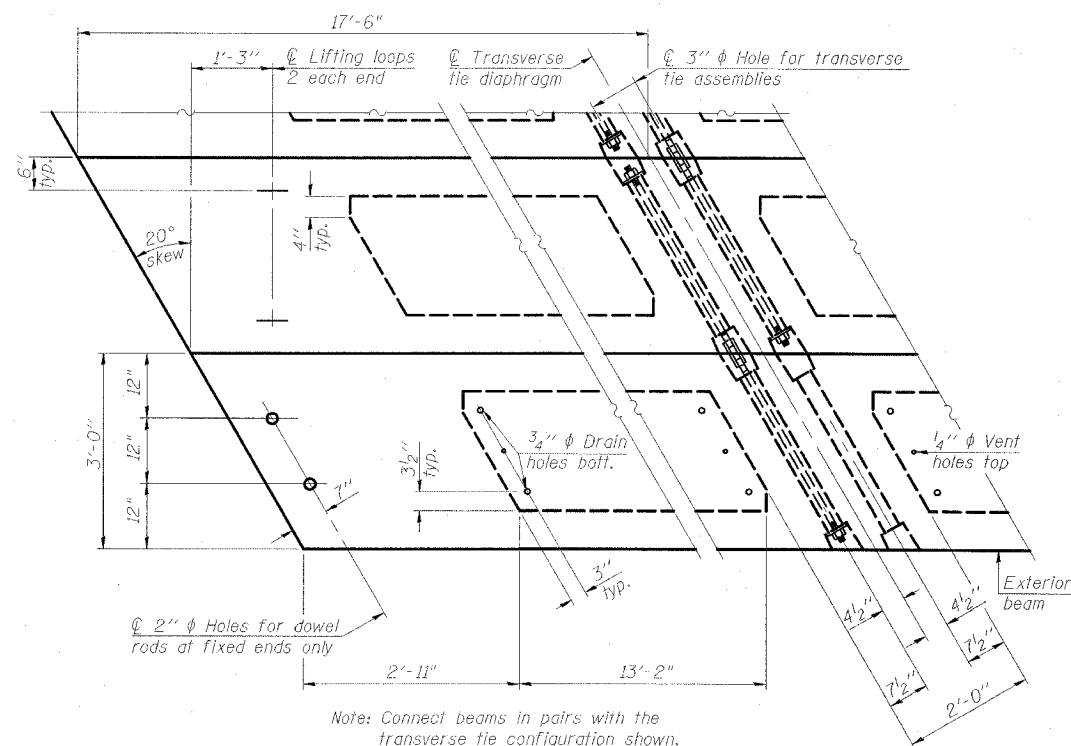
FIXED



SECTION A-A

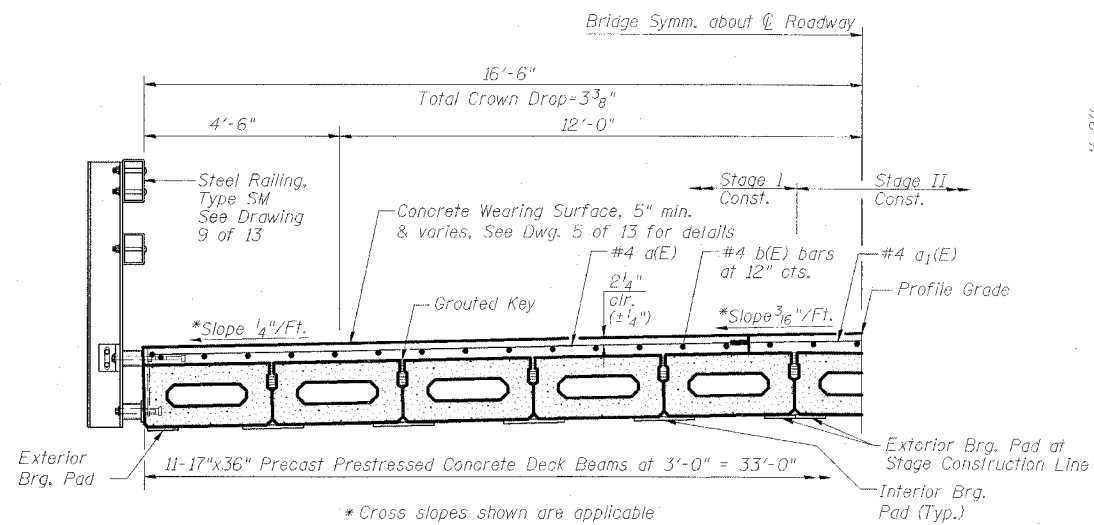


TYPICAL TRANSVERSE TIE ASSEMBLY



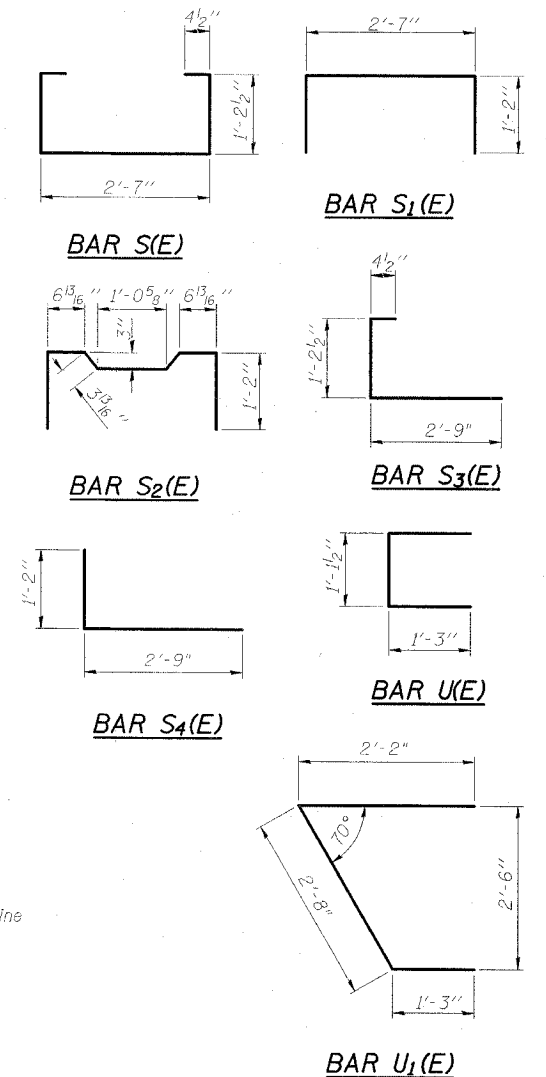
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



HALF CROSS SECTION
(Looking West)

* Cross slopes shown are applicable to Concrete Wearing Surface.

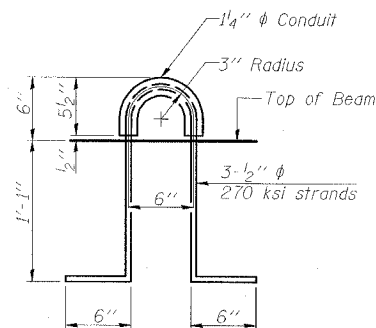


BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Conc. Deck Bms. (17' Depth)	Sq. Ft.	1155

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to ASTM A 706 (IL MOD), Grade 60. (See Special Provisions) Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi. See Dwg. 2 of 13 for locations of rail anchors and additional notes.



LIFTING LOOP DETAIL

ESCA
CONSULTANTS, INC.

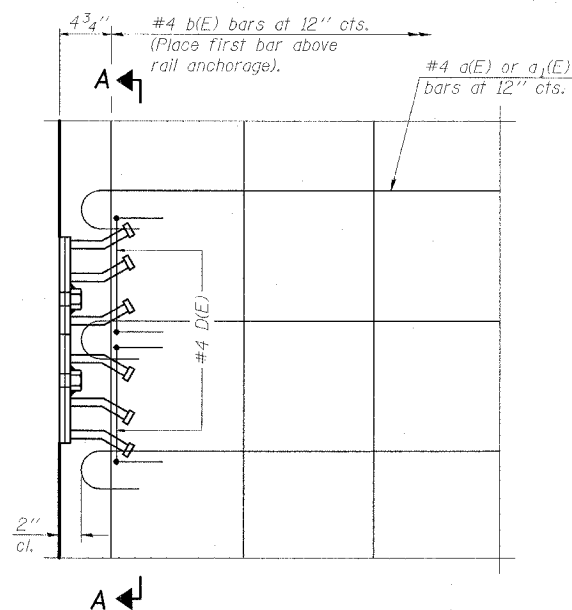
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

SUPERSTRUCTURE DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

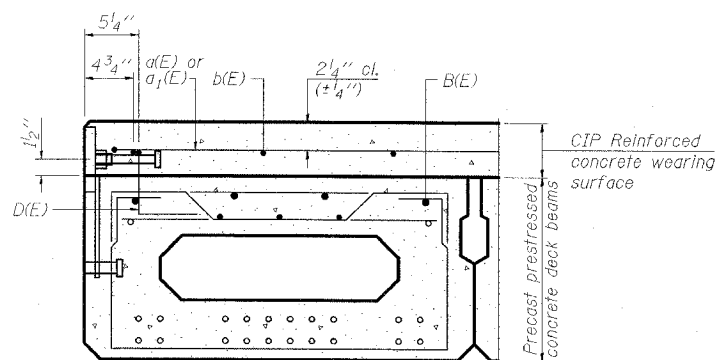
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAS 899	8BR-1	SALINE	75	23
FED. ROAD DIST. NO. 7		LENGTH	FED. AID PROJECT	
78028				

SHEET NO. 8
13 SHEETS

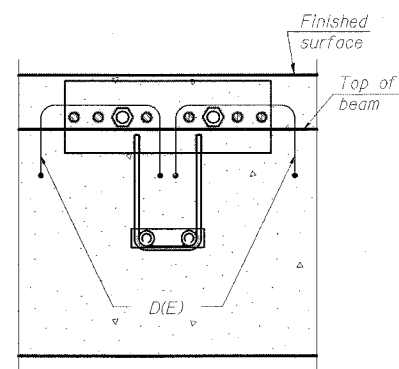


PLAN

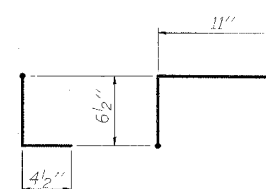


FASCIA BEAM CROSS SECTION

See Typical Section on Dwg. 6 of 13 for strand pattern, dimensions and bar call outs.

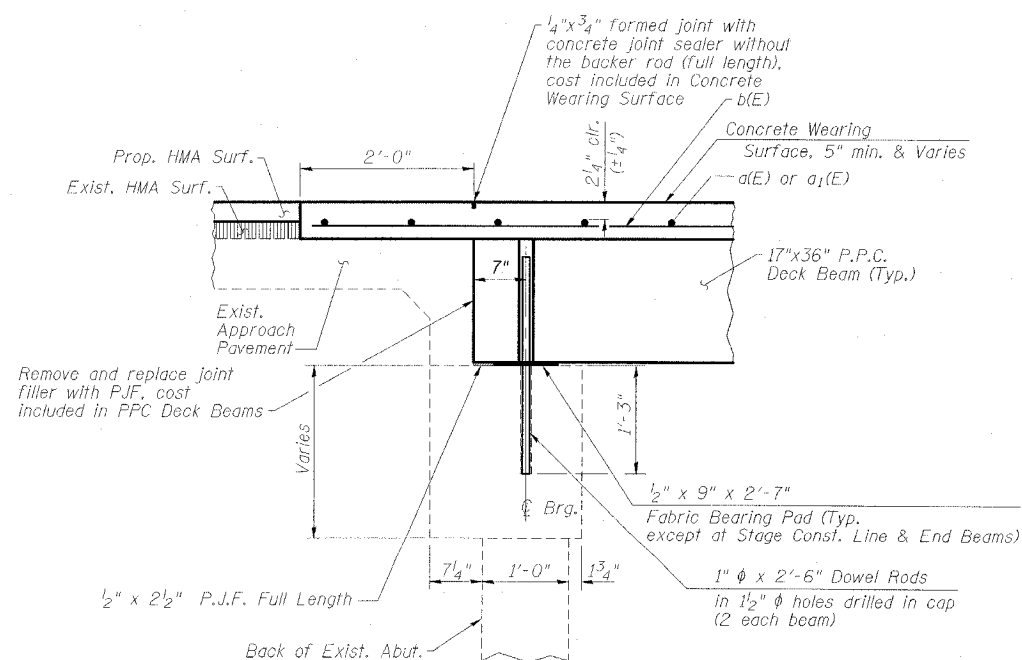


SECTION A-A



BAR D(E)

CONCRETE OVERLAY MODIFICATIONS FOR RAIL ANCHORAGE



SECTION THRU ABUTMENT

(@ Rt. L to skew)

NOTES

After beams have been erected, holes shall be drilled into substructure and dowels rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

Concrete wearing surface to be poured after grouting the shear keys.

Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (17" Depth).

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

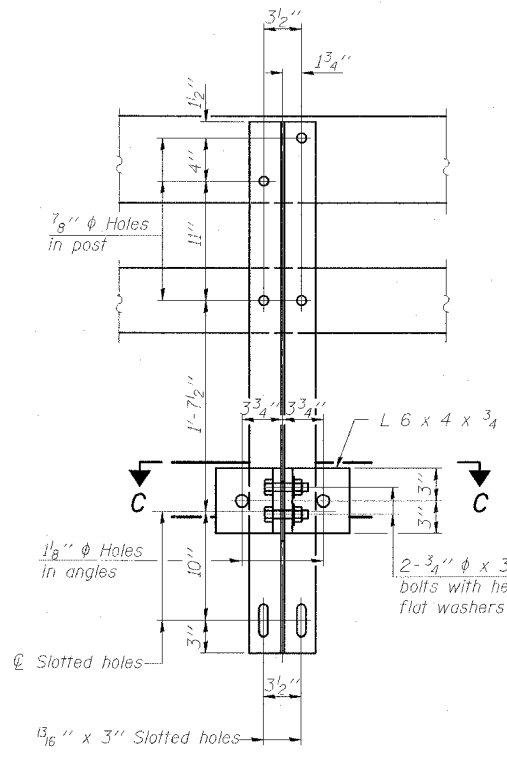
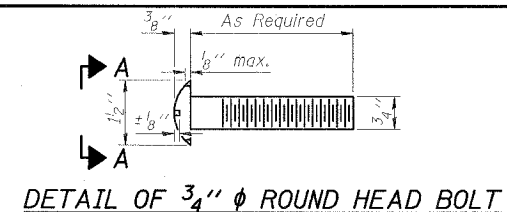
ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 09/07
DRAWN BY: CJ/HAS 09/07
CHECKED BY: DAJ/ELH 01/08
APPROVED BY: RDP 01/08

SUPERSTRUCTURE DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

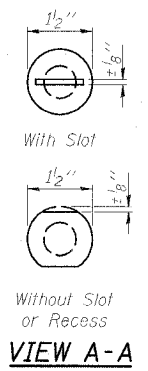
ROUTE NO. FAS 899	SECTION 8BR-1	COUNTY SALINE	DATE 75	SHEET 24	SHEET NO. 9 13 SHEETS
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT		

78028



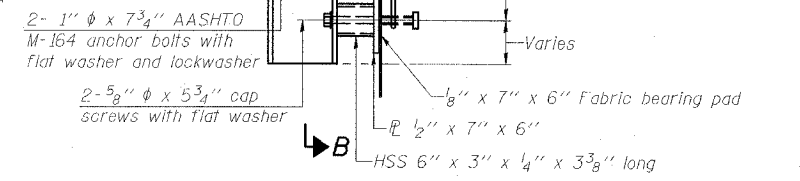
SECTION B-B

SECTION C-C

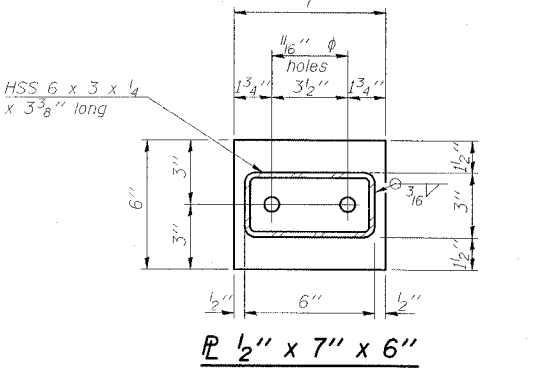
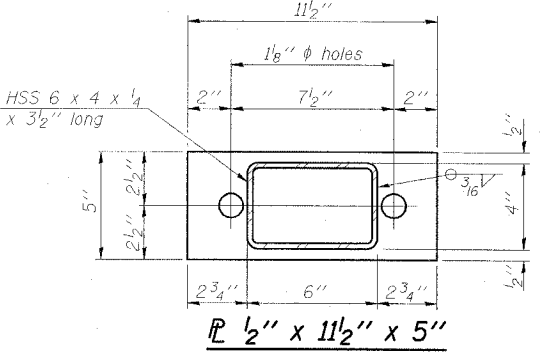


VIEW A-A

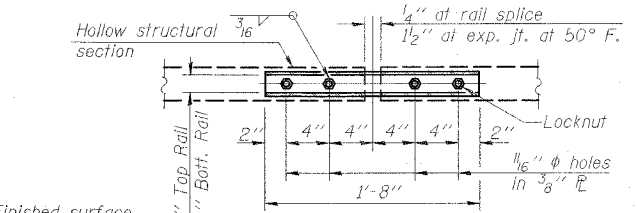
4-3/4" ϕ x 6" Round Head Bolts
(With slot or approved recess in head) with locknut & flat washer.
7/8" ϕ holes in hollow structural section may be drilled in the field.



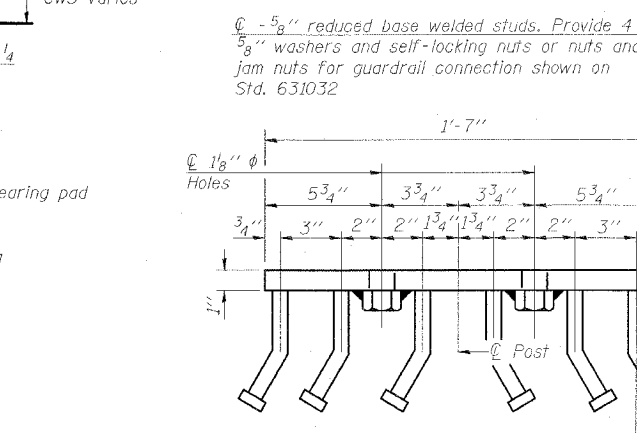
SECTION AT RAIL POST



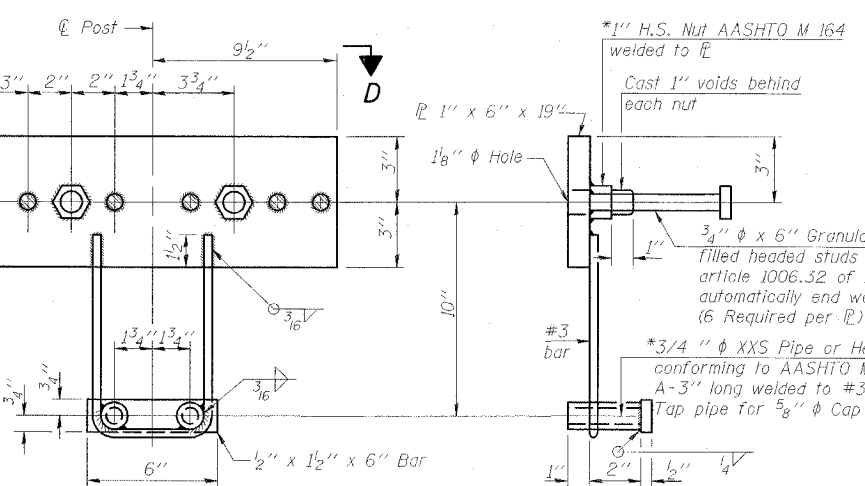
RAIL SPLICE CONNECTION
AT EXPANSION JT.



PLAN-BOTT. SPLICE AT TYPICAL

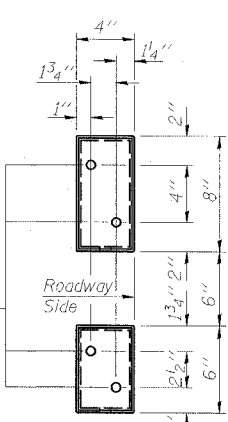


VIEW D-D

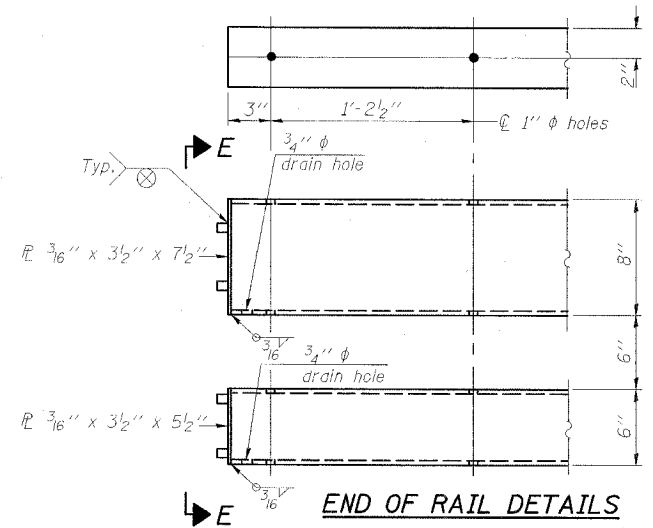


ANCHOR DEVICE

SECTION AT RAIL SPLICE



VIEW E-E



END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	70

STEEL RAILING, TYPE SM
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

ESCA
CONSULTANTS, INC.

DESIGNED BY: JMS 09/07
DRAWN BY: CJ/HAS 09/07
CHECKED BY: DAJ/ELH 01/08
APPROVED BY: RDP 01/08

(6'-3" Maximum Post Spacing) (5" minimum to 7 7/8" maximum CWS thickness)

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SET	SHEET NO. 10
FAS 899	8BR-1	SALINE	75	25	13 SHEETS
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			



78028

**NORTH ABUTMENT
BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Sealer	Sq. Ft.	15
Epoxy Crack Injection	Foot	28
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	22

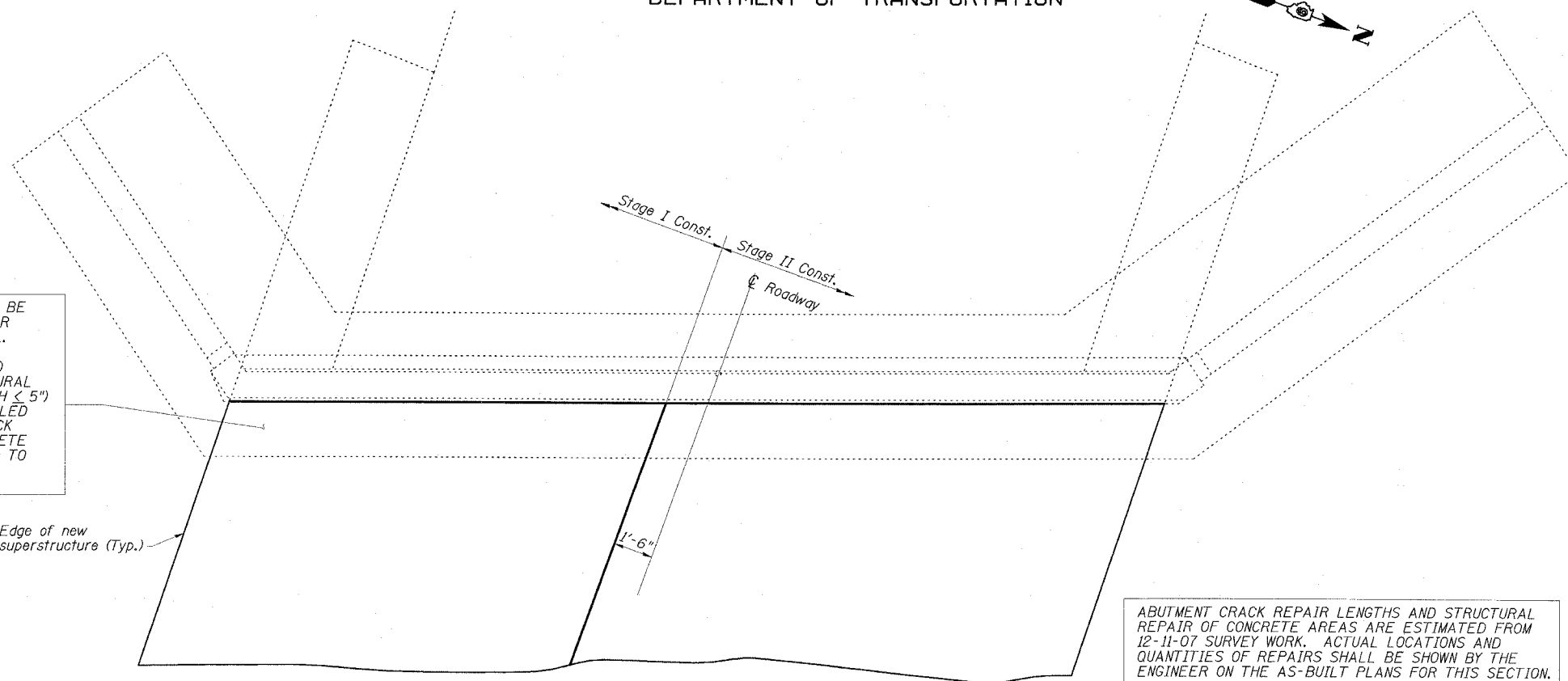
REPAIR LEGEND

Inspection Date: 12/11/07

-  C-6' Crack to be epoxy injected
-  Delaminated or Spalled Area - Use Structural Repair of Concrete

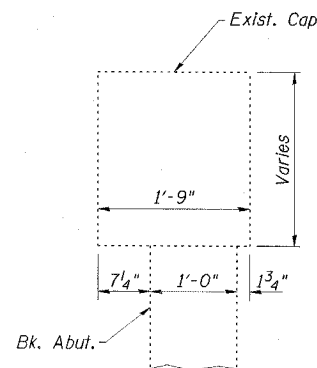
EXISTING BEARING SEAT TO BE INSPECTED BY THE ENGINEER AFTER DECK BEAM REMOVAL. DETERIORATED CONCRETE AREAS SHALL BE REPAIRED (ESTIMATED 15 S.F. STRUCTURAL REPAIR OF CONCRETE DEPTH < 5") AND CRACKS SHALL BE SEALED (ESTIMATED 20' EPOXY CRACK INJECTION) IF FOUND. CONCRETE SEALER SHALL BE APPLIED TO STRUCTURAL REPAIR OF CONCRETE AREAS.

Edge of new superstructure (Typ.)

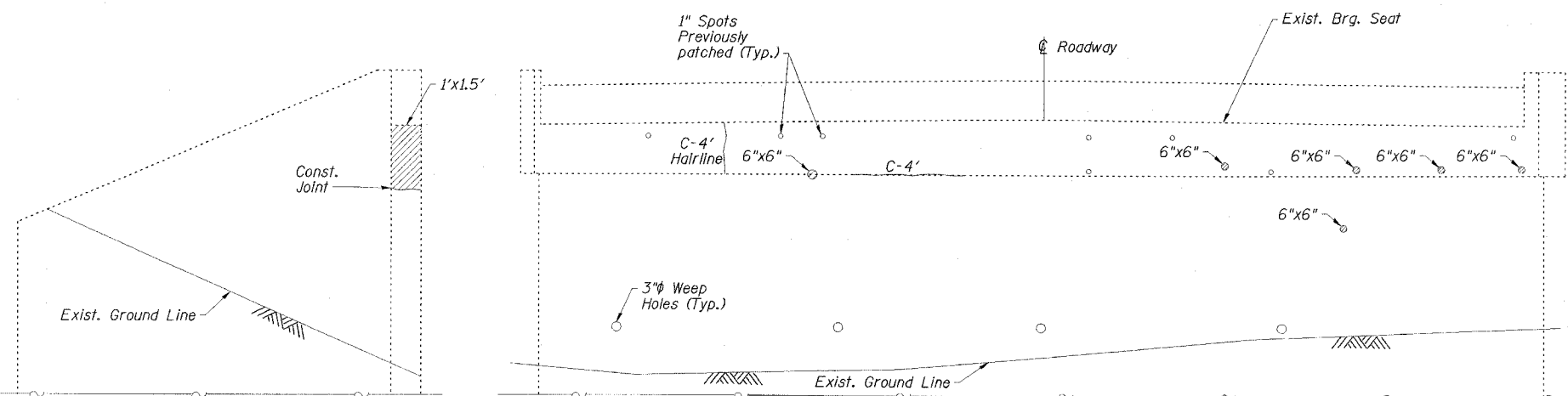


ABUTMENT CRACK REPAIR LENGTHS AND STRUCTURAL REPAIR OF CONCRETE AREAS ARE ESTIMATED FROM 12-11-07 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON THE AS-BUILT PLANS FOR THIS SECTION.

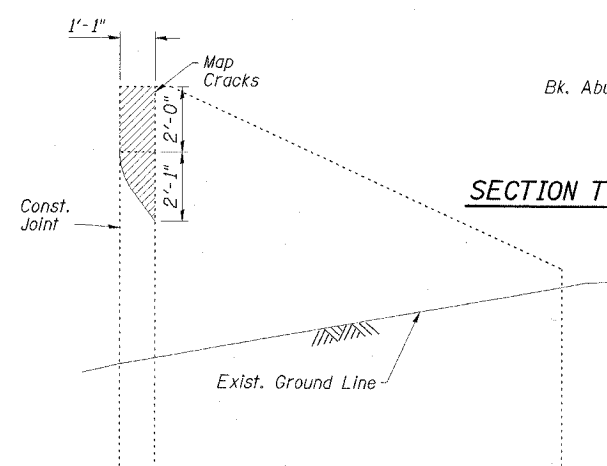
PLAN



SECTION THRU EXISTING ABUTMENT



**ELEVATION
SOUTH WING**



**ELEVATION
NORTH WING**

ELEVATION

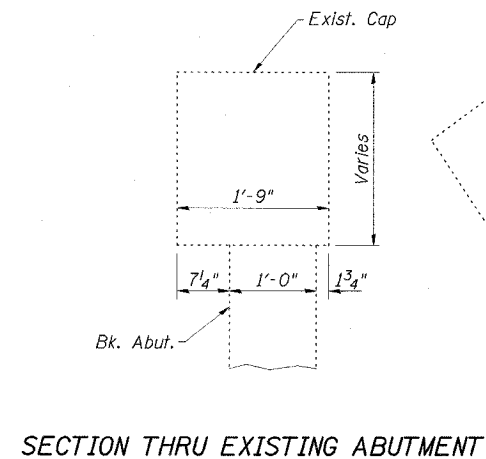
ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

WEST ABUTMENT
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

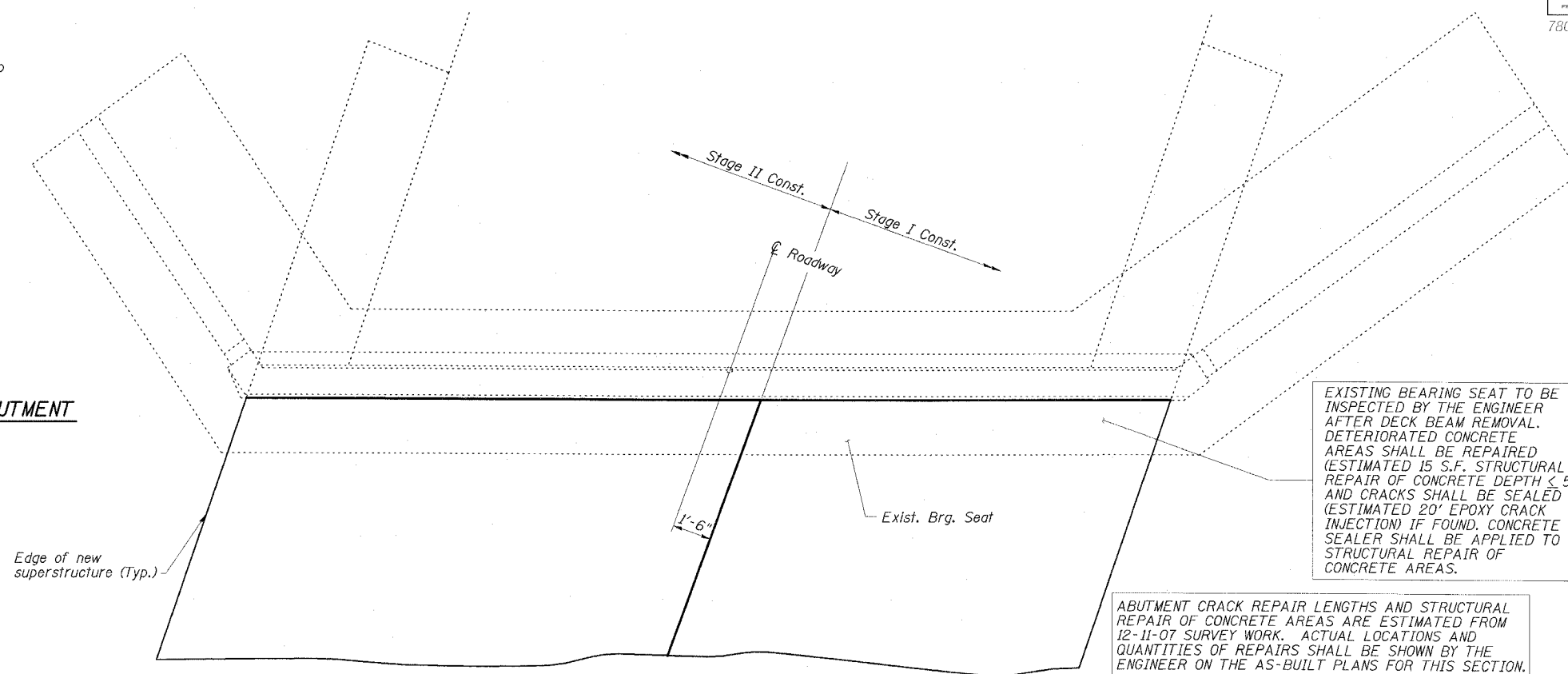
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 11 13 SHEETS
FAS 899	BBR-1	SALINE	75	26	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT-			

78028



SECTION THRU EXISTING ABUTMENT



EXISTING BEARING SEAT TO BE INSPECTED BY THE ENGINEER AFTER DECK BEAM REMOVAL. DETERIORATED CONCRETE AREAS SHALL BE REPAIRED (ESTIMATED 15 S.F. STRUCTURAL REPAIR OF CONCRETE DEPTH < 5") AND CRACKS SHALL BE SEALED (ESTIMATED 20' EPOXY CRACK INJECTION) IF FOUND. CONCRETE SEALER SHALL BE APPLIED TO STRUCTURAL REPAIR OF CONCRETE AREAS.

ABUTMENT CRACK REPAIR LENGTHS AND STRUCTURAL REPAIR OF CONCRETE AREAS ARE ESTIMATED FROM 12-11-07 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON THE AS-BUILT PLANS FOR THIS SECTION.

**SOUTH ABUTMENT
BILL OF MATERIAL**

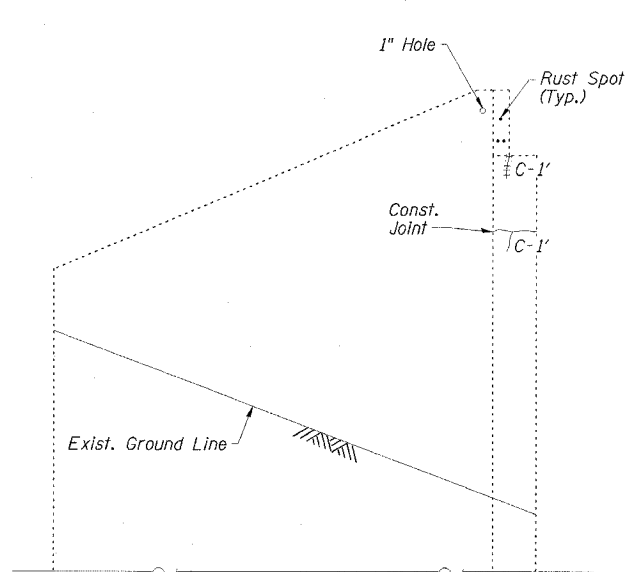
Item	Unit	Quantity
Concrete Sealer	Sq. Ft.	15
Epoxy Crack Injection	Foot	28
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	17

REPAIR LEGEND

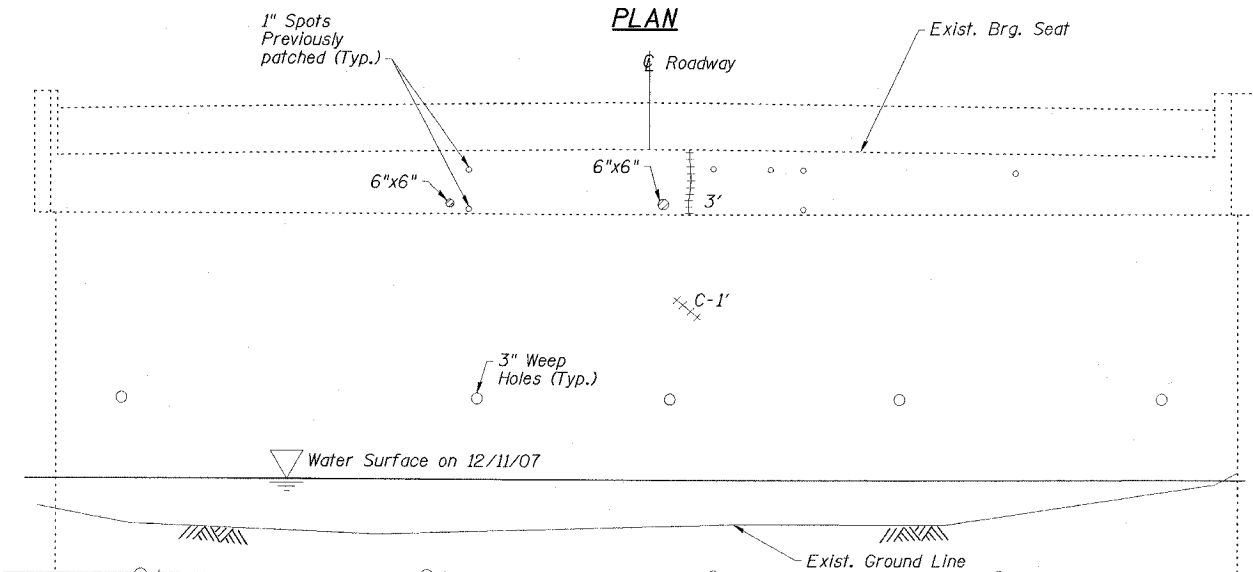
Inspection Date: 12/11/07

- C-6' Crack to be epoxy injected
- Delaminated or Spalled Area - Use Structural Repair of Concrete
- Efflorescent Crack

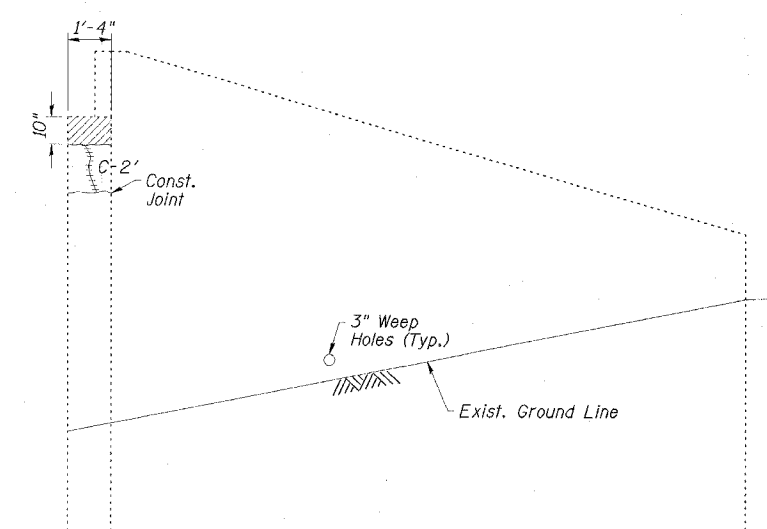
PLAN



ELEVATION
NORTH WING



ELEVATION



ELEVATION
SOUTH WING

ESCA
CONSULTANTS, INC.

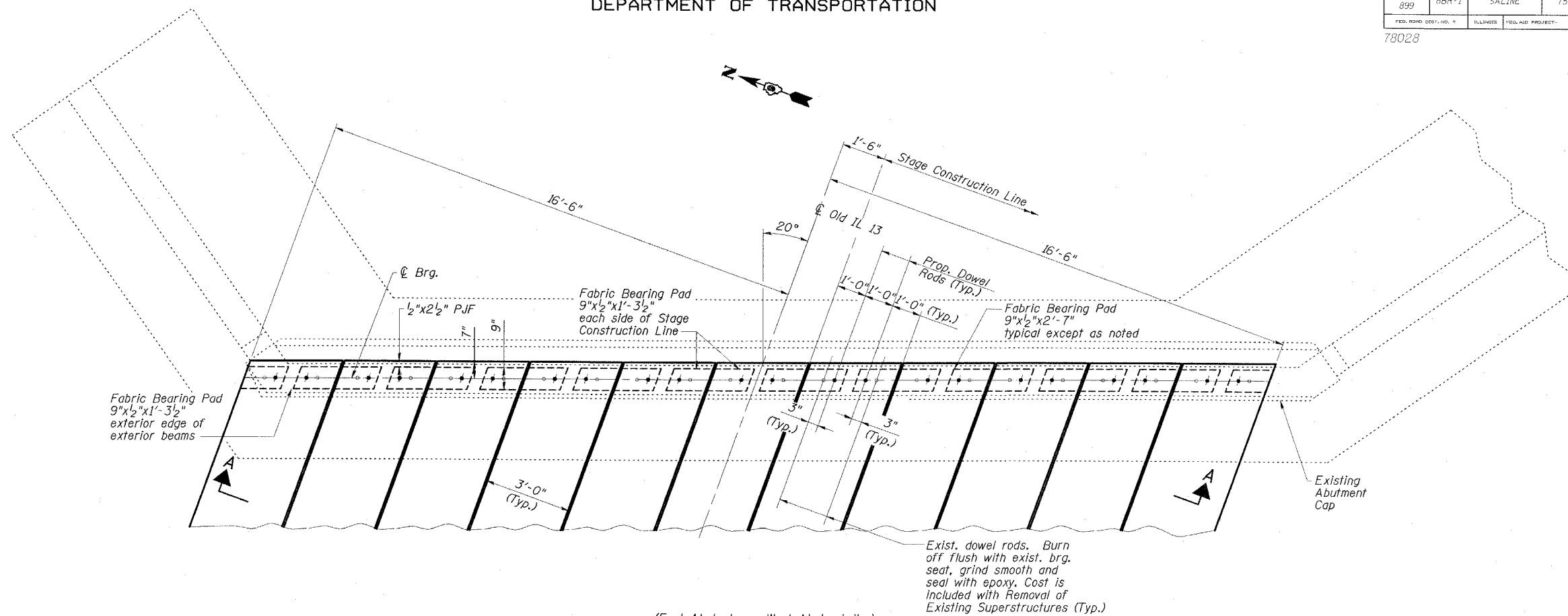
DESIGNED BY:	JMS	09/07
DRAWN BY:	C.J./HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

EAST ABUTMENT
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION BBR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 12 13 SHEETS
FAS 899	BBR-1	SALINE	75	27	
FED. ROAD DIST. NO. #		ILLINOIS	FED. AID PROJECT		

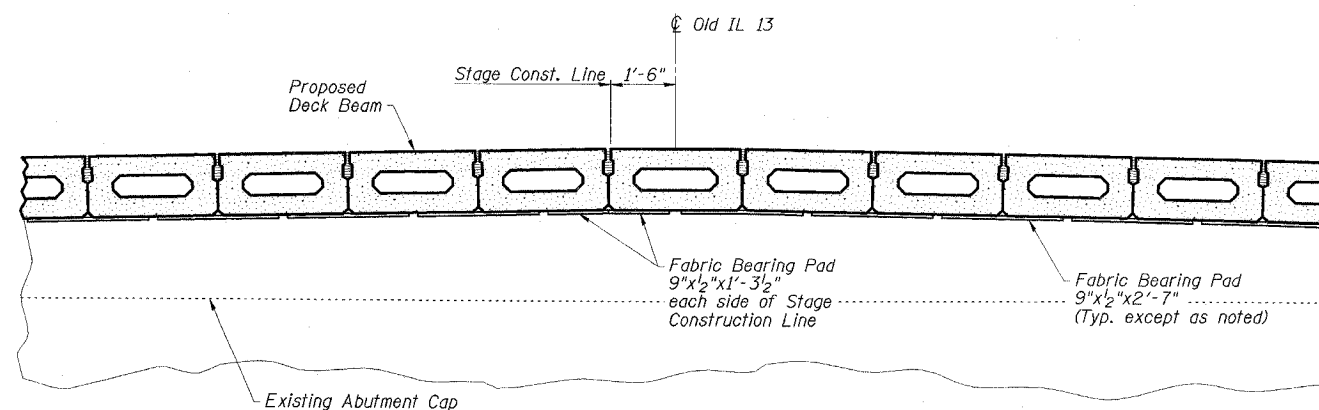
78028



(East Abut shown; West Abut. similar)

ABUTMENT BEARING SEAT PLAN

(Concrete wearing surface and approach pavement not shown)



SECTION A-A

(Concrete wearing surface not shown)

ABUTMENT DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION BBR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 13 13 SHEETS
FAS 899	8BR-1	SALINE	75	28	
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT		

78028

The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

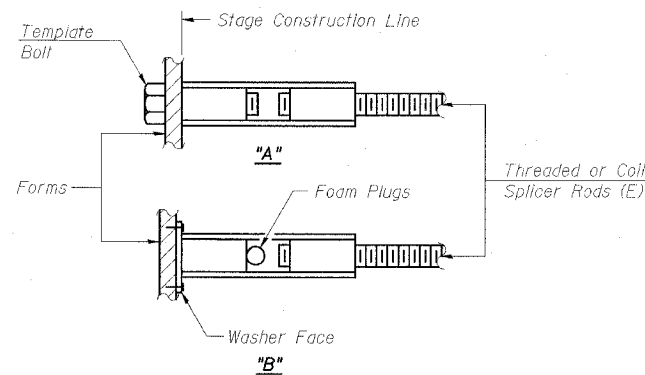
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

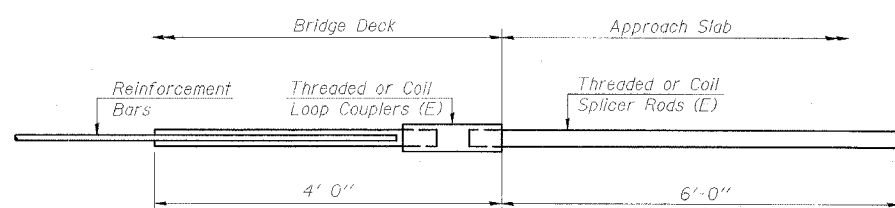
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

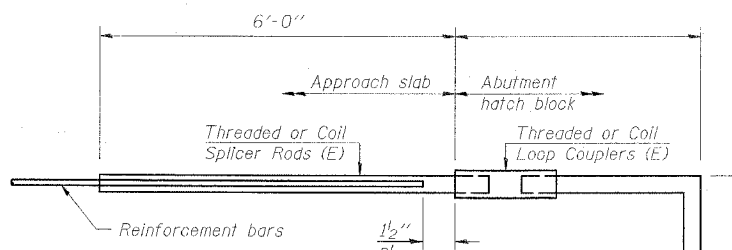
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



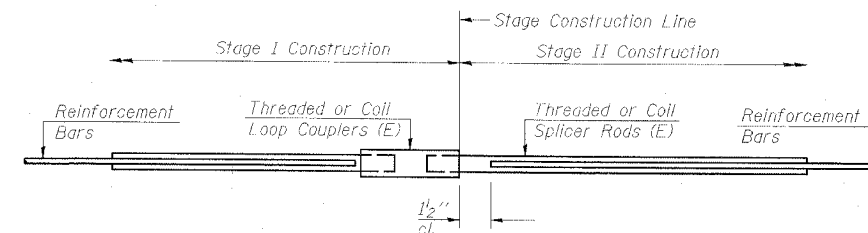
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#4	38	Concrete Wearing Surface

BAR SPLICER ASSEMBLY DETAILS
OLD IL 13 OVER POSSUM TAIL BRANCH
FAS ROUTE 899 - SECTION 8BR-1
SALINE COUNTY
STATION 664+15.00
STRUCTURE NO. 083-0035

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	09/07
DRAWN BY:	CJ/HAS	09/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1
7 SHEETS

GENERAL NOTES

Plan dimensions and elevations for existing structure have been taken from existing plans and are subject to minimal construction variations. It shall be the Contractor's responsibility to verify such observations in the field and make necessary approved adjustments prior to construction. Additional materials (such variations shall not be cause for additional compensation for a change in the scope of the work unless the Contractor will be held for the quantity actually furnished on the bid price bid for the work.

The top surface of the bridge shall be finished in accordance with Article 505.04 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

Expansion joints shall consist of self-drilling expansion anchors and 3" x 12" hooked bolts.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

**STATION: 664+15
RE-BUILT - 1984 BY
STATE OF ILLINOIS
F.A. RT. III SEC 10B-D.B.P.
PROJ. F-11(14)
LOADING HS20
37E NO.**

NAME PLATE
(See SpE 2113)
* Structure Number to be supplied by District.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu.Yd.		193	193
Bituminous Concrete Surface Course, Class I	Ton	11		11
Removal of Existing Super-structures	Each	1		1
Concrete Removal	Cu.Yd.		6	6
Expansion Bolts - 3"	Each		60	60
Class I Concrete	Cu.Yd.		3.2	3.2
P.R.C. Deck Beams (17" Depth)	Sq.Ft.	1155		1155
Structure Excavation	Cu.Yd.		21	21
Steel Railing, Type S	Lin.Ft.	70		70
Reinforcement Bars	Each		1800	1800
Form Plates	Lin.Ft.	350		350
Portland Cement Mortar Fearing Course	Sq.Yd.		134	134
Waterproofing Membrane System	Sq.Yd.		134	134
Temporary Bridge Rail	Lin.Ft.	35		35

DESIGN STRESSES - FIELD UNITS
fc = 3500 p.s.i.
fy = 60000 p.s.i.

PRECAST PRESTRESSED UNITS
fc = 5000 p.s.i.
fci = 4000 p.s.i.
fs = 270,000 p.s.i. (5 Strands)
fs = 180,000 p.s.i. (5 Strands)
Design Specifications: 1977 AASHTO 1973, 1979, and 1980 Interim Specs. as applicable.
Allow 25% for future Wearing Surf.
LOADING HS20-44 (New Const.)

WATERWAY INFORMATION

Flow	Area	Depth	Velocity	Time	Water EL				
Design	50	2.337	2.56	2.76	400.1	2.8	2.0	402.9	402.1
Base	100	2.690	2.53	2.99	400.2	3.0	1.95	403.2	402.15
Overlapping	45	2.260	2.40	2.92	400.0	2.7	2.02	402.7	402.02

PROFILE GRADE

DESIGNED BY: *B.F. Schwab*
CHECKED BY: *M.H. [Signature]*
DRAWN BY: *E.V. Taylor*
APPROVED BY: *[Signature]*

GENERAL PLAN
F.A. RT. III (ILL. RT. 13)
OVER POSSUM TAIL BRANCH
SALINE COUNTY
STA. 664+15.00

LOCATION PLAN

PLAN

Existing Structure: No. 083-0035 built as S.B.I. 13 Sec. 8-3-1 Sta. 664+15 in 1942. R.C. Slab superstructure with R.C. closed Abuts. 34'-0" Bk to Bk of Abuts. Existing Superstructure to be removed and replaced with P.R.C. Deck Beams on existing Abuts. Stage Construction shall be utilized. No salvage.

0.00% Grade

R.R. spike in R pole Sta. 653+32 Elev. 405.41

Type S Railing

1'-3" Min. Cl.

H.W. Elev. 404.1 (50 Yr.)

F.L. Elev. 391.0

Channel Excavation (within limits of existing R.O.W.)

20'-0"

Bk. W. Abut. (Exist.) Sta. 663+32.60 Elev. 403.77

Structure Sta. 664+15.00

Bk. E. Abut. (Exist.) Sta. 664+32.40 Elev. 403.77

20'-0"

20'-0" (Typ.)

24'-0" Appr. Pavt.

16'-3" (Min.)

16'-3" (Min.)

1'-6"

3'-0"

3'-0"

34'-9 1/2" Bk. to Bk. Exist. Abuts

Bridge Approach Shoulder Pavt. Std. 2324 (Typ.)

0.00% Grade

Sta. 663+32.60 Elev. 403.77

Sta. 664+15.00 Elev. 403.77

Bridge Appr. Pavt. Std. 2382 (Typ.)

Limits of Existing Structure

Stage Constr. Line

Flow

Prop. Improvement

Range 3 E 3rd P.M.

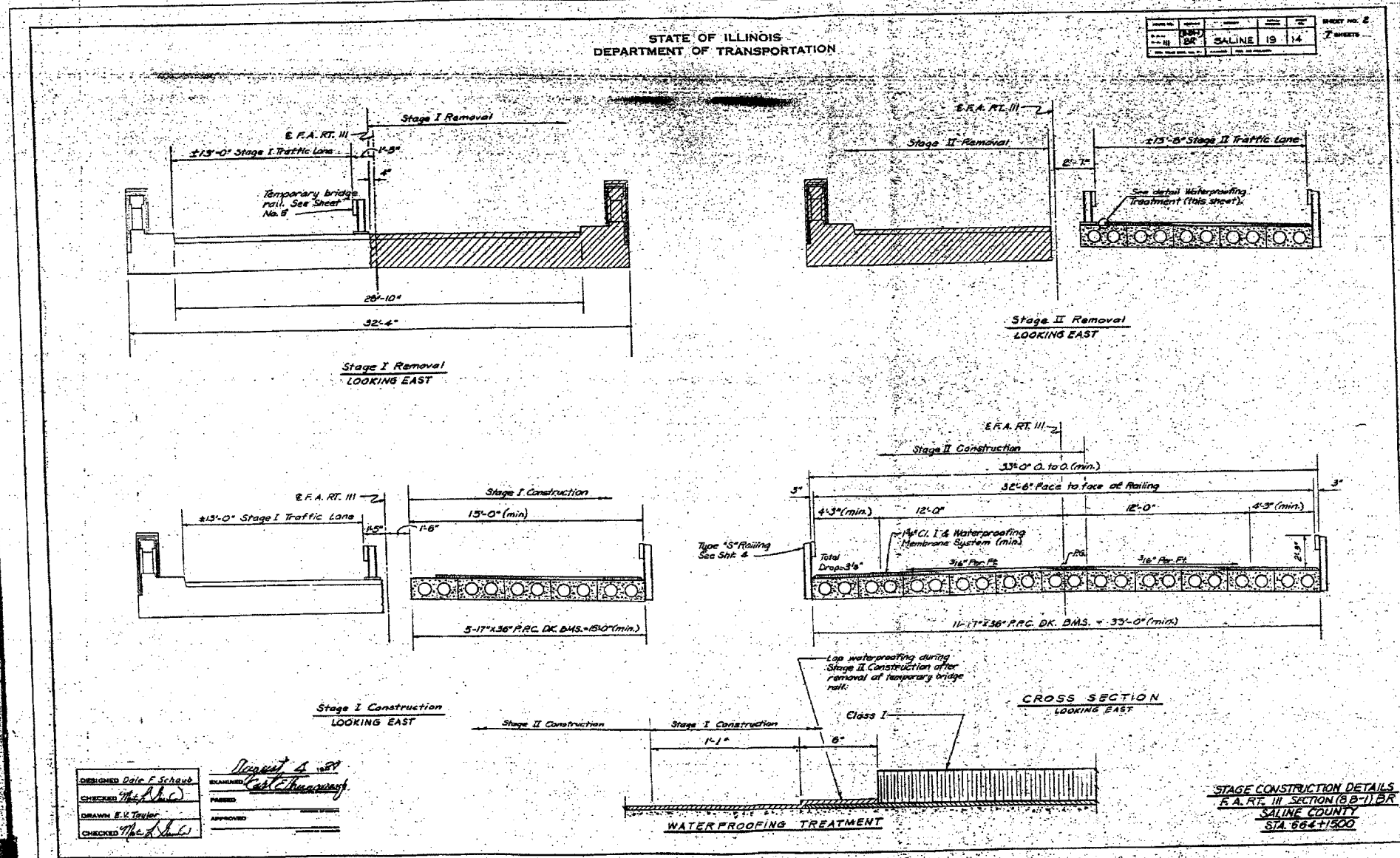
F.A. RT. III (ILL. RT. 13)

ESCA
CONSULTANTS, INC.

DESIGNED BY: JMS 12/07
DRAWN BY: HAS 12/07
CHECKED BY: MTD 01/08
APPROVED BY: RDP 01/08

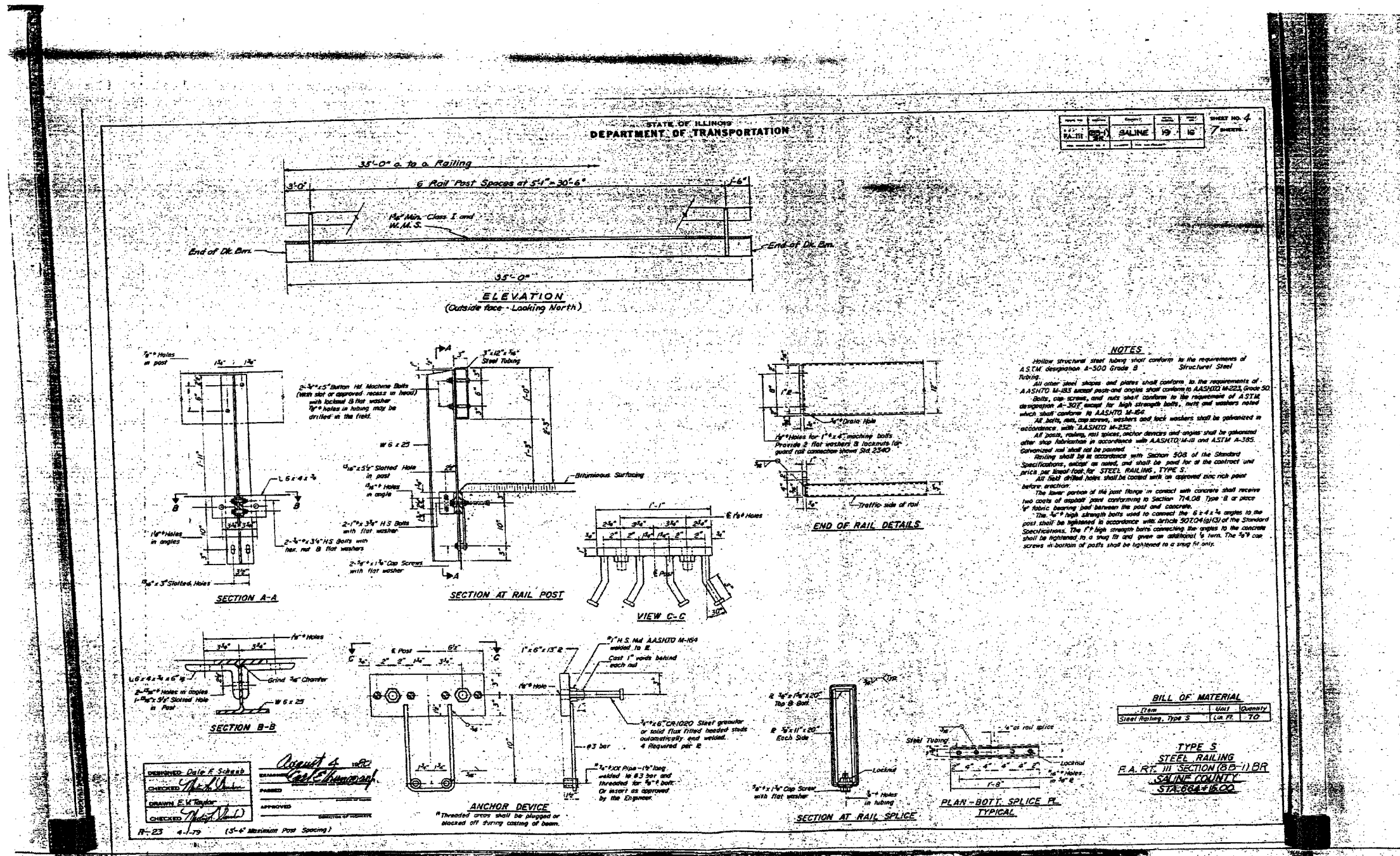
EXISTING STRUCTURE PLANS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1
SALINE COUNTY

CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DESIGNED Dale F. Schaub
CHECKED MTD
DRAWN E.K. Taylor
CHECKED MTD

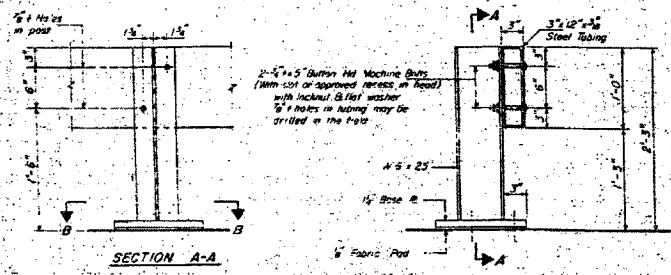
DESIGNED *Dale F. Schaub*
CHECKED *MTD*
DRAWN *E.K. Taylor*
CHECKED *MTD*



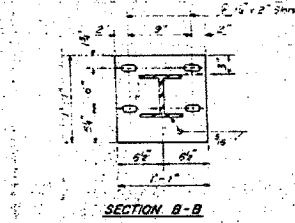
CONTRACT NO. 78028				
FAS RTE 899	SECTION 8BR-1	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

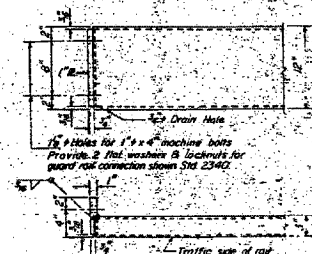
DATE	BY	NO.	REV.
19 17			



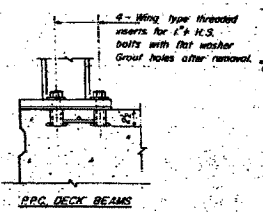
SECTION AT RAIL POST



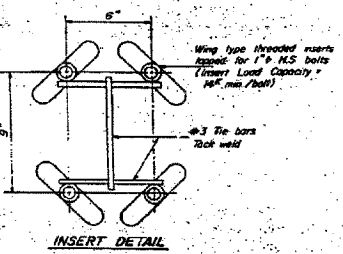
SECTION B-B



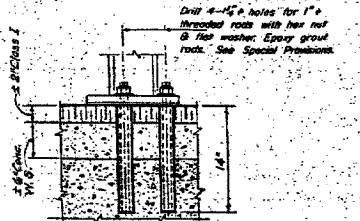
END OF RAIL DETAILS



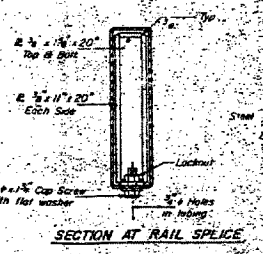
R.P.C. DECK BEAMS



INSERT DETAIL



NEW & EXISTING DECK ANCHORAGE DETAILS



SECTION AT RAIL SPLICE



PLAN-BOTTOM SPLICE PL. TYPICAL

NOTES
 1. All structural steel fabricating shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel.
 2. All other steel shapes and plates shall conform to the requirements of AASHTO M-83 except posts shall conform to AASHTO M-223 Grade 30.
 3. Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, threaded rods, nuts and washers noted which shall conform to AASHTO M-164.
 4. The bridge rail shall receive one shop coat of a steel prime paint.
 5. The 1/2 inch high strength bolts or threaded rods used to connect the railposts shall be tightened in accordance with Article 50704(g)(3) of the Standard Specification.
 6. See Special Provisions for Temporary Bridge Rail.

BILL OF MATERIAL

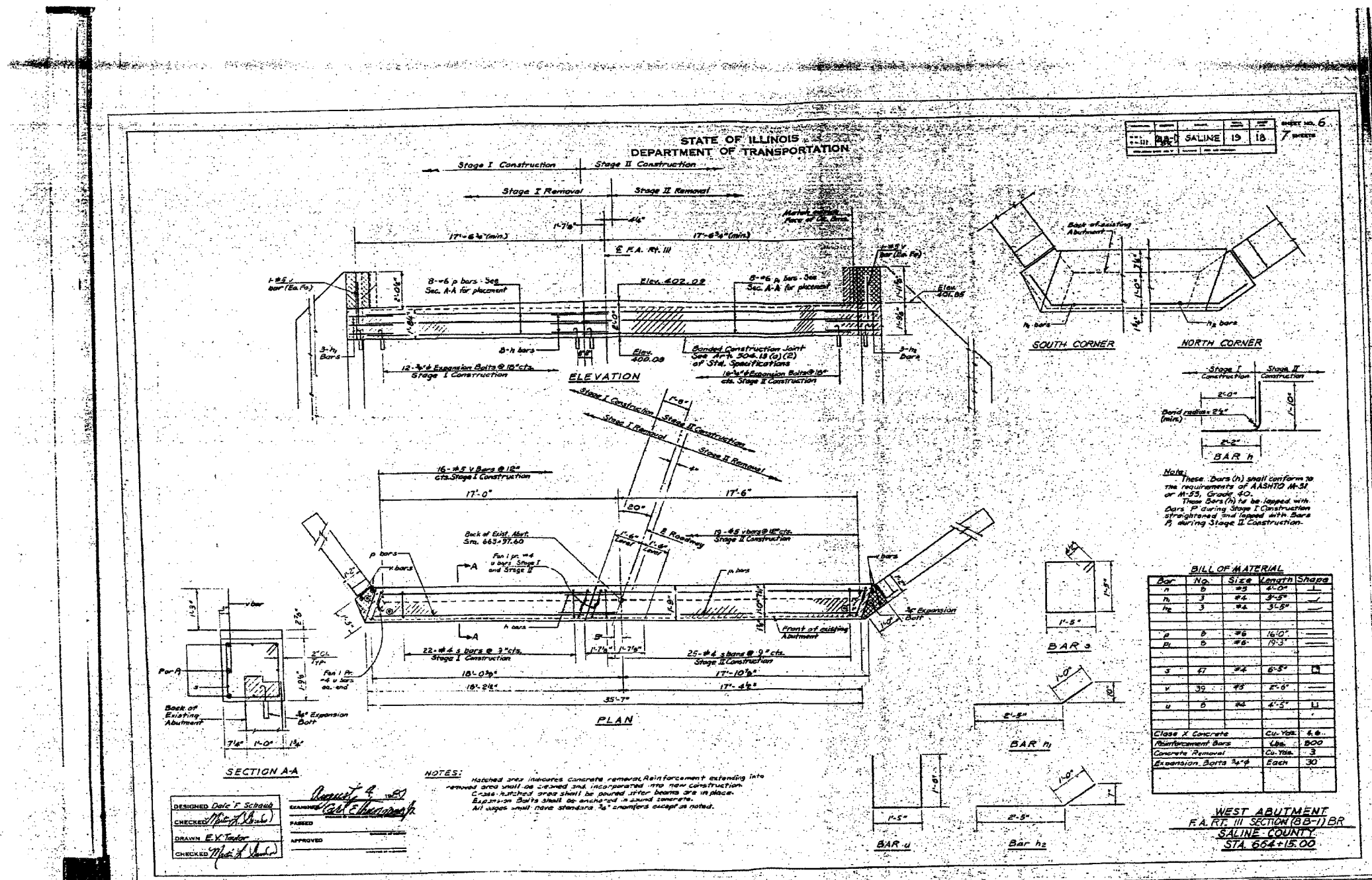
Item	Unit	Quantity
Temporary Bridge Rail	Line Ft.	33

TEMPORARY BRIDGE RAIL
 F.A.R.T. III SECTION (B-1) DR
 SALINE COUNTY
 STA. 664+15.00

DESIGNED Dale F. Schaub
 CHECKED [Signature]
 DRAWN E.V. Taylor
 CHECKED [Signature]
 R-25 8-1-79 (17'-6" Maximum Post Spacing)



CONTRACT NO. 78028				
FAS	SECTION	COUNTY	TOTAL SHEETS	NO.
899	8BR-1	SALINE	75	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	12/07
DRAWN BY:	HAS	12/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	01/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-1
SALINE COUNTY

BENCHMARK: Railroad spike in power pole 31' Lt., Sta. 803+57, Elev. 381.09

EXISTING STRUCTURE: SN 083-0036 was originally built as S.B.I. Rt. 13, Section 8BD, Sta. 802+60 in 1922. Superstructure consisted of a reinforced concrete slab on a 100' long steel truss with a 19'-0" roadway width. In 1969 the superstructure was replaced by a two span precast prestressed concrete deck beam superstructure, 33' out to out, with a new pier. Precast concrete bridge slabs were utilized to widen the approaches. Existing superstructure and approach shoulders to be removed and replaced utilizing stage construction.

No salvage

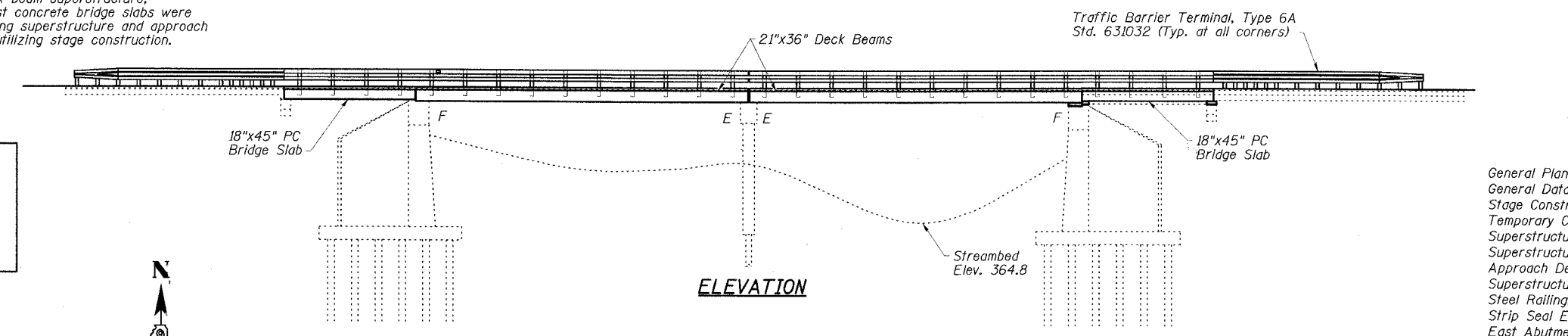
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	MILEAGE	SHEET NO.	SHEET NO. 1
FAS 899	8BR-2	SALINE	75	36	18 SHEETS
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT		

78028

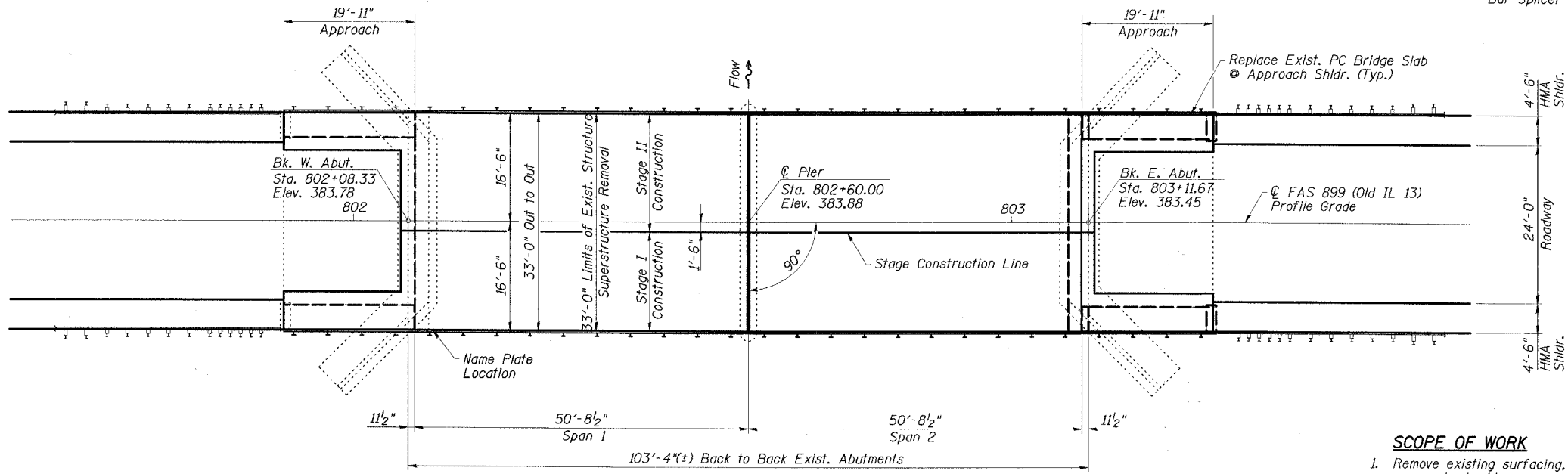
STATION 802+60.00
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 899 SEC. 8BR-2
LOADING HS20
STR. NO. 083-0036

NAME PLATE
See Std. 515001

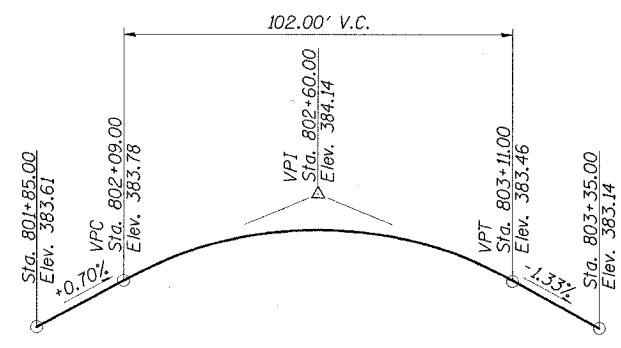


STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 18
General Data	Dwg. No. 2 of 18
Stage Construction Details	Dwg. No. 3 of 18
Temporary Concrete Barrier	Dwg. No. 4 of 18
Superstructure	Dwg. No. 5 of 18
Superstructure Details	Dwg. No. 6-7 of 18
Approach Details	Dwg. No. 8 of 18
Superstructure and Approach Details	Dwg. No. 9-10 of 18
Steel Railing, Type SM	Dwg. No. 11 of 18
Strip Seal Expansion Joint	Dwg. No. 12 of 18
East Abutment	Dwg. No. 13 of 18
West Abutment	Dwg. No. 14 of 18
Abutment Details	Dwg. No. 15 of 18
Pier	Dwg. No. 16 of 18
Pier Details	Dwg. No. 17 of 18
Bar Splicer Assembly Details	Dwg. No. 18 of 18

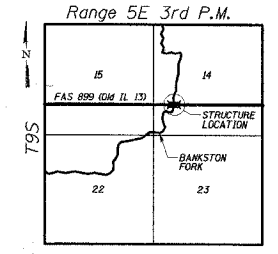


- SCOPE OF WORK**
1. Remove existing surfacing, steel railing, deck beams, and bridge approach shoulders.
 2. Repair beam bearing seats and perform other repairs at abutments and pier as required. Abutment cap and approach caps on east end to be raised.
 3. Reconstruct a two-span PPCD beam superstructure with Concrete Wearing Surface and Steel Railing, Type SM. Reconstruct existing approach shoulders with Precast Concrete Bridge Slab with Concrete Wearing Surface and Steel Railing, Type SM.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

DESIGN SPECIFICATION
2002 AASHTO
LOADING HS20-44
No allowance for future wearing surface
DESIGN STRESSES
FIELD UNITS
f_c = 5,000 psi (Concrete Wearing Surface)
f_c = 3,500 psi (All concrete except CWS)
f_y = 60,000 psi (reinf.)
PRECAST PRESTRESSED UNITS
f_c = 6,000 psi
f_{ci} = 5,000 psi
f_s = 270,000 psi (1/2" low lax strands)
f_{sl} = 201,960 psi (1/2" low lax strands)
PRECAST UNITS
f_c = 4,500 psi
f_y = 60,000 psi (reinf.)



GENERAL PLAN
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

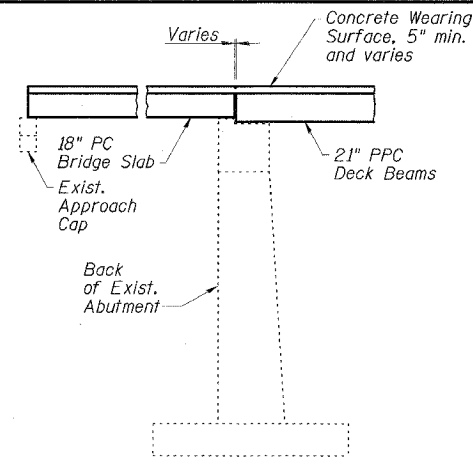
ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 10/07
DRAWN BY: CJ/HAS 10/07
CHECKED BY: DAJ/ELH 02/08
APPROVED BY: RDP 02/08

STATE OF ILLINOIS
ENGINEERING & SURVEYING
No. 4647
EXPIRES 11-30-08
Ralph E. Anderson
SIGNATURE
02/29/08
DATE

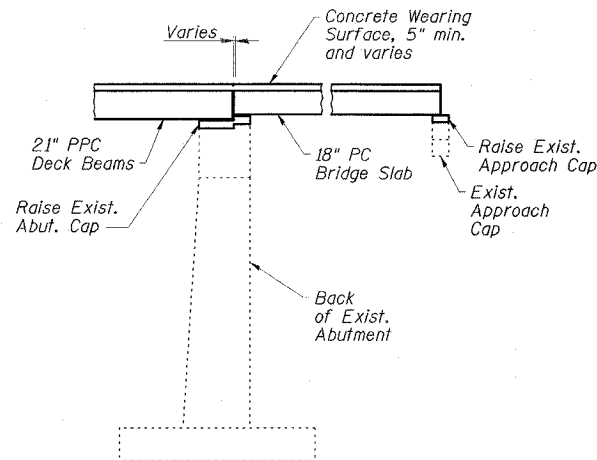
PROFILE GRADE
(Along C Roadway)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAS 899	8BR-2	SALINE	75	37
SHEET NO. 2 18 SHEETS				
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		
78028				



SECTION THRU WEST ABUTMENT
@ OUTSIDE BEAM



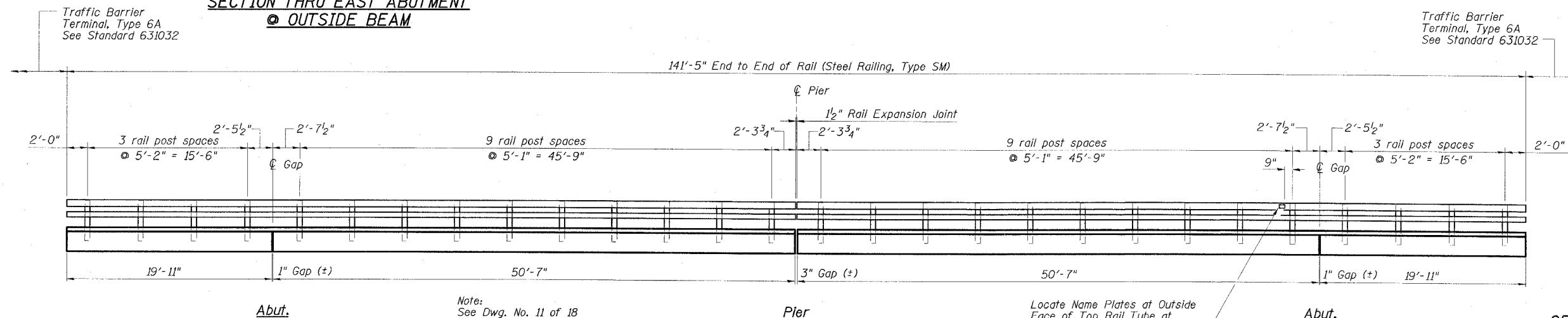
SECTION THRU EAST ABUTMENT
@ OUTSIDE BEAM

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60 (IL Modified). See Special Provisions.
2. Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.
3. Concrete Sealer shall be applied to abutment bearing seats and backwalls where Structural Repair of Concrete is performed and also to the front faces, sides, and tops of new bearing seats.
4. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300 Type 1 unless noted otherwise.
5. Side Retainers shall be AASHTO M270 Grade 36 minimum.
6. No in-stream work will be allowed on this project.
7. The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
8. If the Contractor's procedures for existing beam removal or placement of new beams involves placement of heavy equipment on the new or existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost Included with Precast Prestressed Concrete Deck Beams (17" Depth).
9. The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber. Modify to meet field conditions as directed by the Engineer.
10. Repair of the substructure shall be completed prior to placement of the new deck beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures No. 2	Each	1	-	1
Bridge Deck Grooving	Sq. Yd.	401	-	401
Protective Coat	Sq. Yd.	432	-	432
Precast Concrete Bridge Slab	Sq. Ft.	299	-	299
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3339	-	3339
Reinforcement Bars, Epoxy Coated	Pound	5380	400	5780
Bar Splicers	Each	106	3	109
Steel Railing, Type SM	Foot	283	-	283
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	33	-	33
Concrete Sealer	Sq. Ft.	-	138	138
Epoxy Crack Injection	Foot	-	65	65
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	-	62	62
Concrete Wearing Surface, 5"	Sq. Yd.	432	-	432
Concrete Structures	Cu. Yd.	-	2.5	2.5
Removal of Existing Precast Concrete Units	Sq. Ft.	299	-	299



RAILING ELEVATION
(Showing Inside Face of North Railing;
South Railing Similar)

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DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	02/08
APPROVED BY:	RDP	02/08

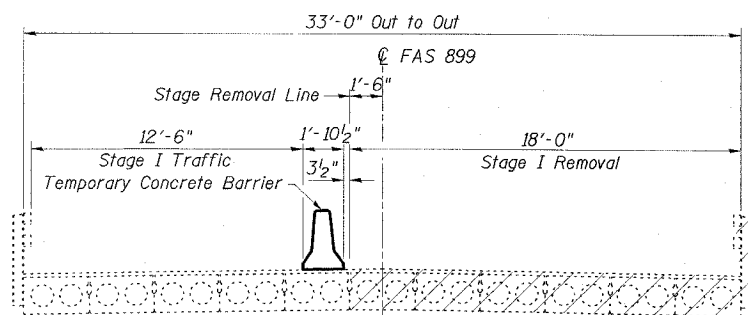
GENERAL DATA
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

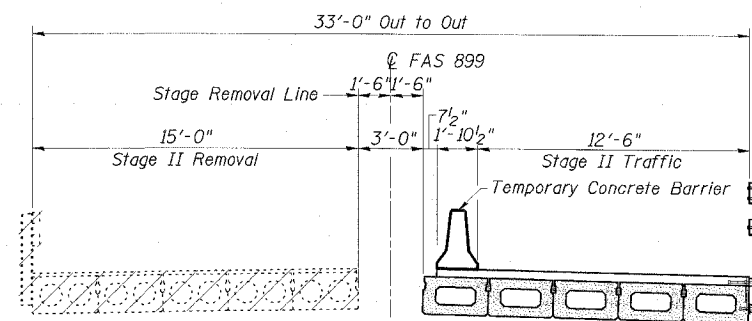
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FAS 899	BBR-2	SALINE	75	38
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 3
18 SHEETS

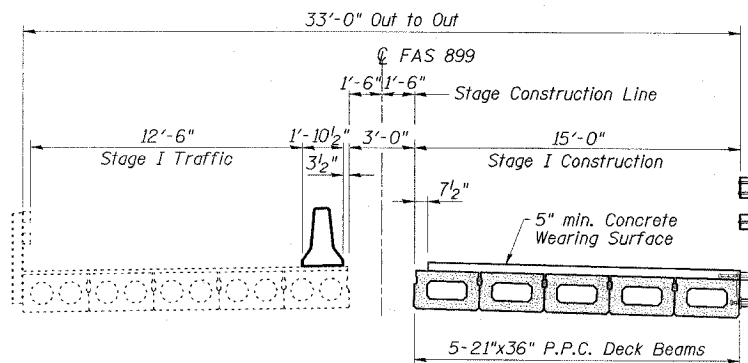
78028



STAGE I REMOVAL

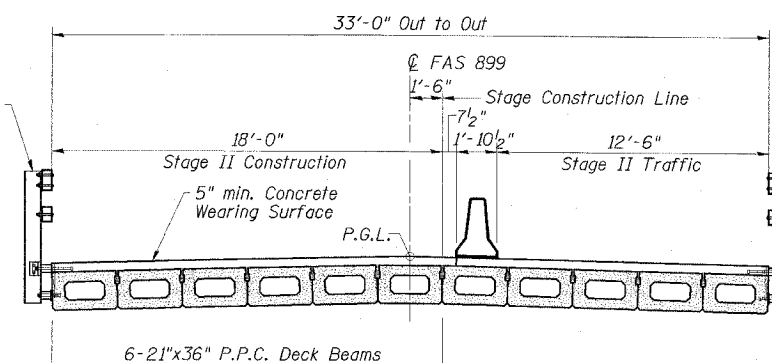


STAGE II REMOVAL



STAGE I CONSTRUCTION

Steel Railing, Type SM



STAGE II CONSTRUCTION

STAGE CONSTRUCTION NOTES

1. All staging sections are looking East.
2. See Dwg. No. 5 of 18 for shear key clamping details.
3. For quantity of Temporary Concrete Barrier, see Roadway Plans.

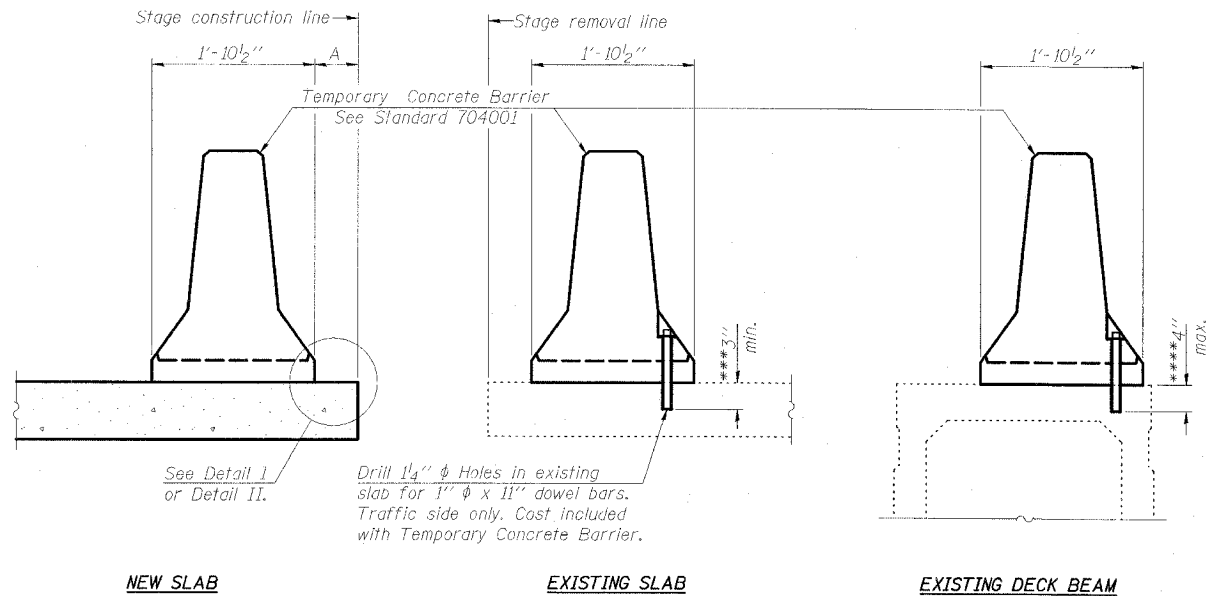
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STAGE CONSTRUCTION DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION BBR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 4 18 SHEETS
FAS 899	BBR-2	SALINE	75	39	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



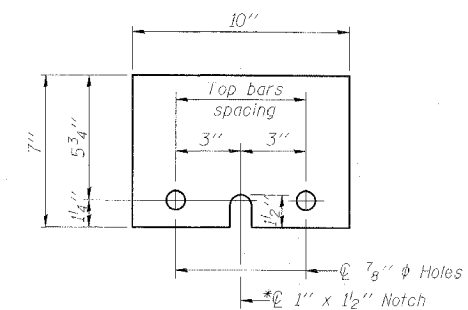
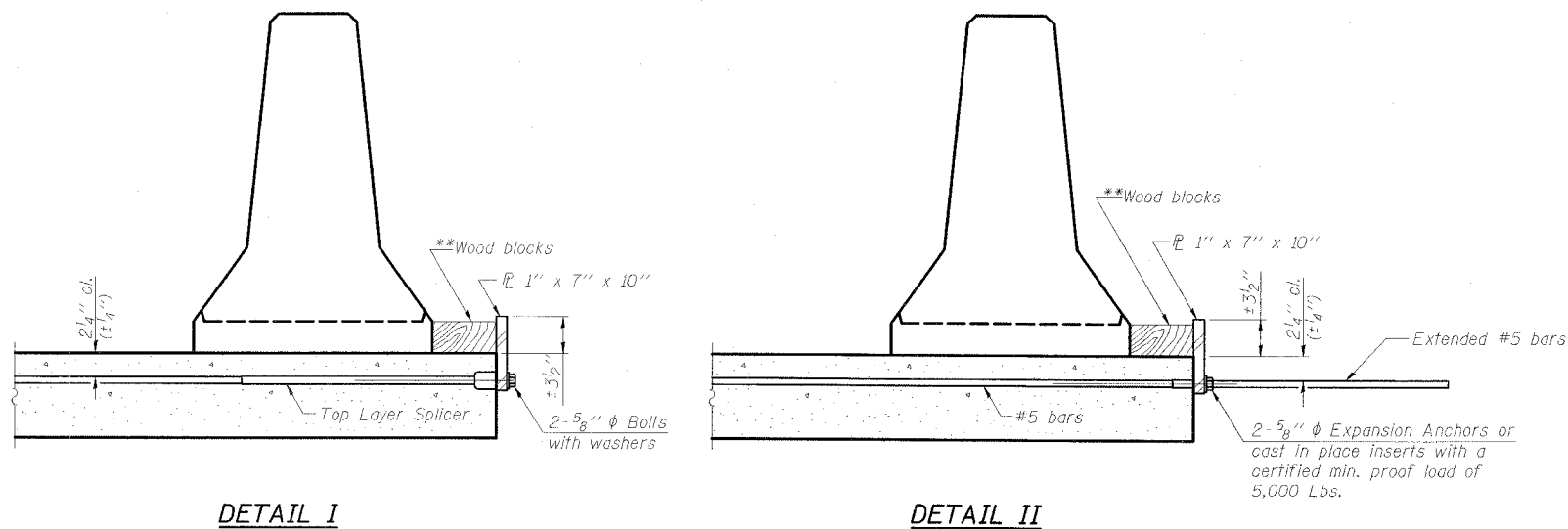
Drill 1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

SECTIONS THRU SLAB OR DECK BEAM

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

- ***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- ****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



STEEL RETAINER \bar{P} 1" x 7" x 10"
* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

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TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

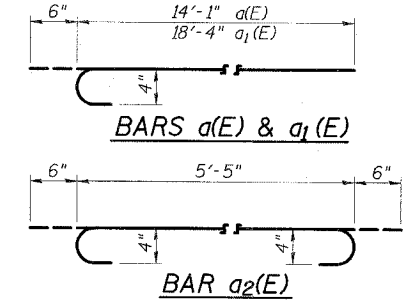
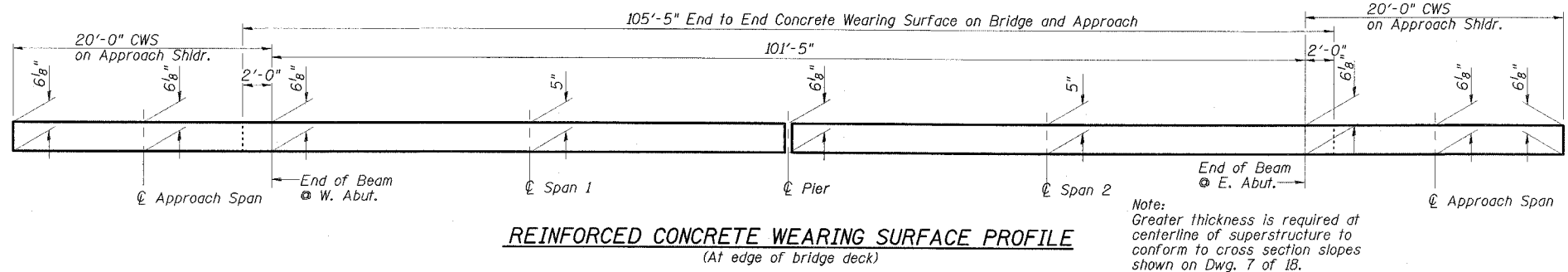
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SUBSECT.	SHEET	SHEET NO. 5 18 SHEETS
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FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT		

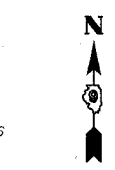
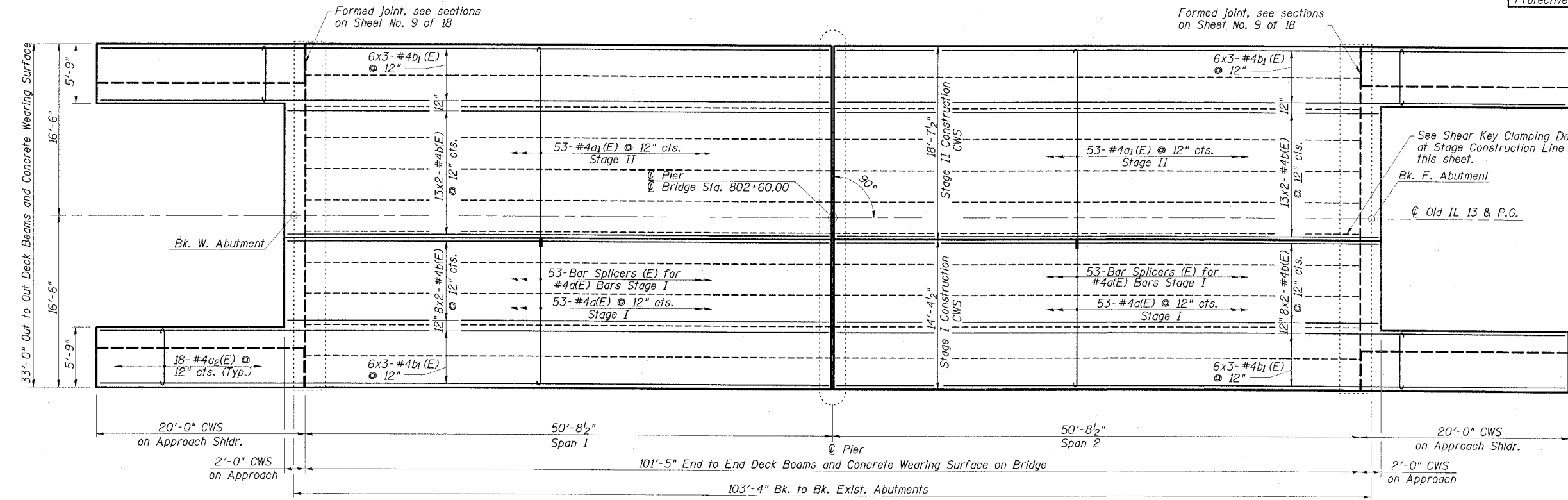
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CONCRETE WEARING SURFACE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	106	#4	14'-7"		
a1(E)	106	#4	18'-10"		
a2(E)	72	#4	6'-5"		
b(E)	84	#4	27'-0"		
b1(E)	72	#4	24'-8"		
Reinforcement Bars, Epoxy Coated				Pound	5380
Concrete Wearing Surface, 5"				Sq. Yd.	432
Bridge Deck Grooving				Sq. Yd.	401
Bar Splicers				Each	106
Protective Coat				Sq. Yd.	432



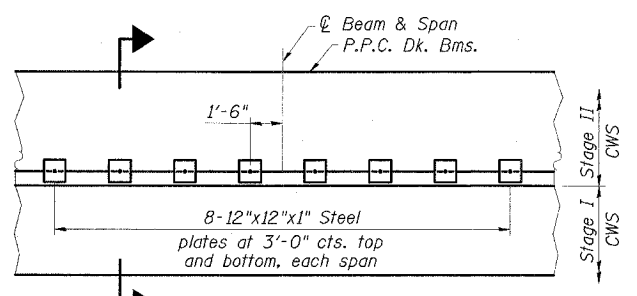
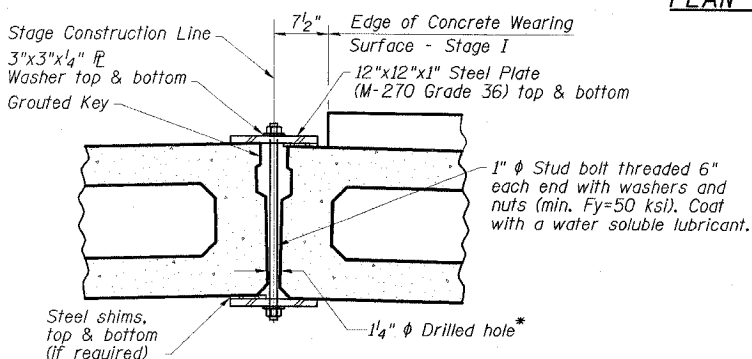
Note:
Greater thickness is required at centerline of superstructure to conform to cross section slopes shown on Dwg. 7 of 18.



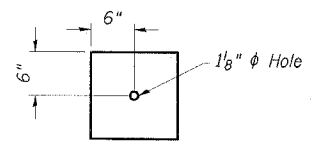
MIN. BAR LAP
#4 bar = 1'-8"

Note:
Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 13x2-#4 etc. indicates 13 lines of bars with 2 lengths per line. For remainder of superstructure details, see drawings 6 thru 10 of 18.

*As an alternate to the drilled holes, the Contractor may request the Fabricator to cast 2" diameter semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate location for the clamping device bolts. If the Contractor elects to use this alternate, the details shall be identified on the shop drawings.



Note:
See Stage Construction Details for traffic lanes. Cost is included with Precast Prestressed Concrete Deck Beams.



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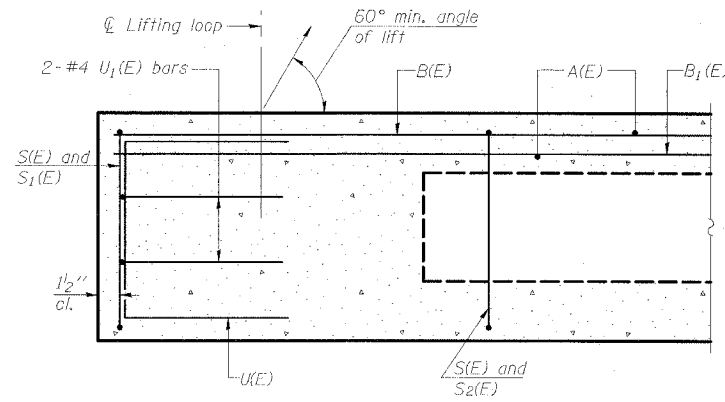
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SUPERSTRUCTURE
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

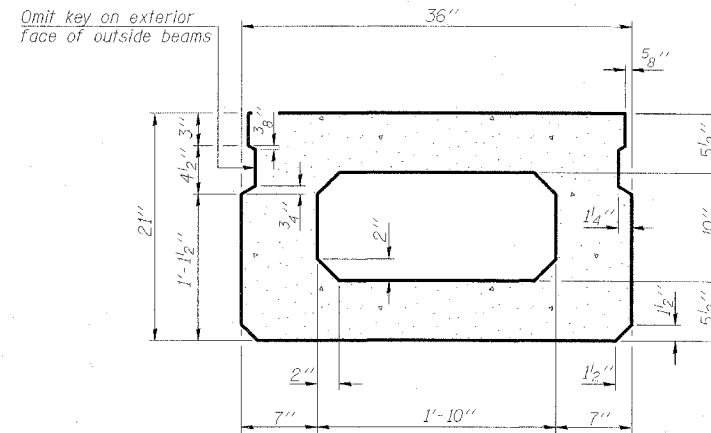
STATE OF ILLINOIS
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ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 6 18 SHEETS
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FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

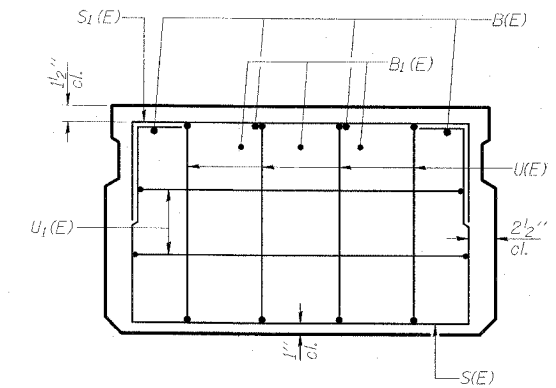
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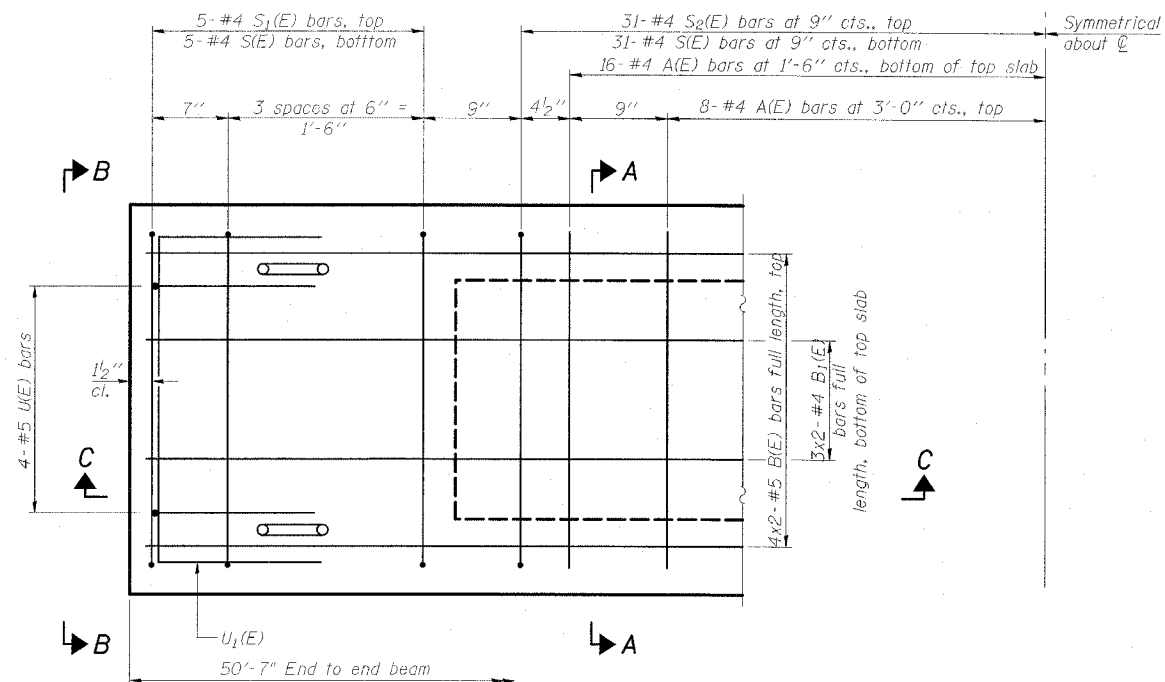
SECTION C-C



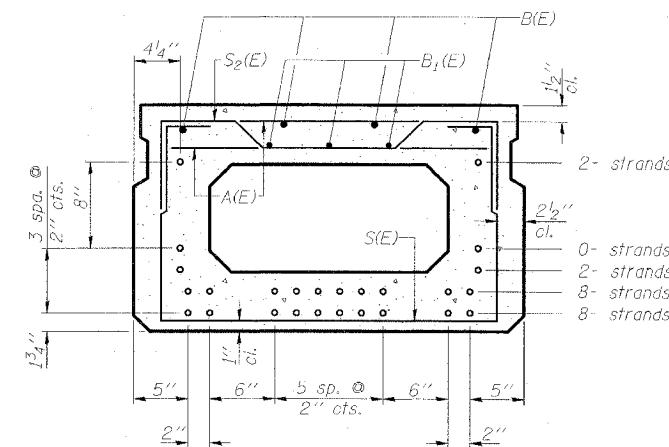
SECTION A-A
(Showing dimensions)



VIEW B-B



PLAN VIEW



SECTION A-A

(Showing reinforcement and permissible strand locations)

20 - 1/2" strands, each strand stressed to 30,900 lbs

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(F)	48	#4	2'-7"	—
B(E)	8	#5	26'-4"	—
B1(E)	6	#4	26'-1"	—
S(E)	72	#4	6'-5"	□
S1(E)	10	#4	5'-7"	□
S2(E)	62	#4	5'-10"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

Note: See sheet 7 of 18 for additional details and Bill of Material.

MIN. BAR LAP
#5 bar = 2'-2"

Notes: 1. Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

2. Adjust reinforcement locations to clear dowel holes at fixed ends.

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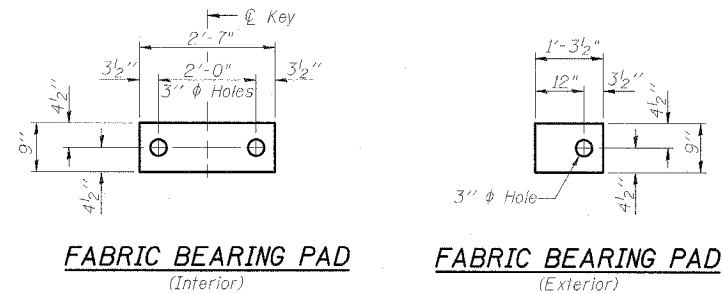
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APPROVED BY:	RDP	01/08

SUPERSTRUCTURE DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

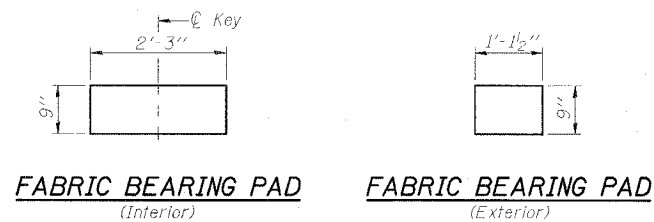
STATE OF ILLINOIS
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ROUTE NO.	SECTION	COUNTY	SHEET	NO.	SHEET NO. 7
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FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

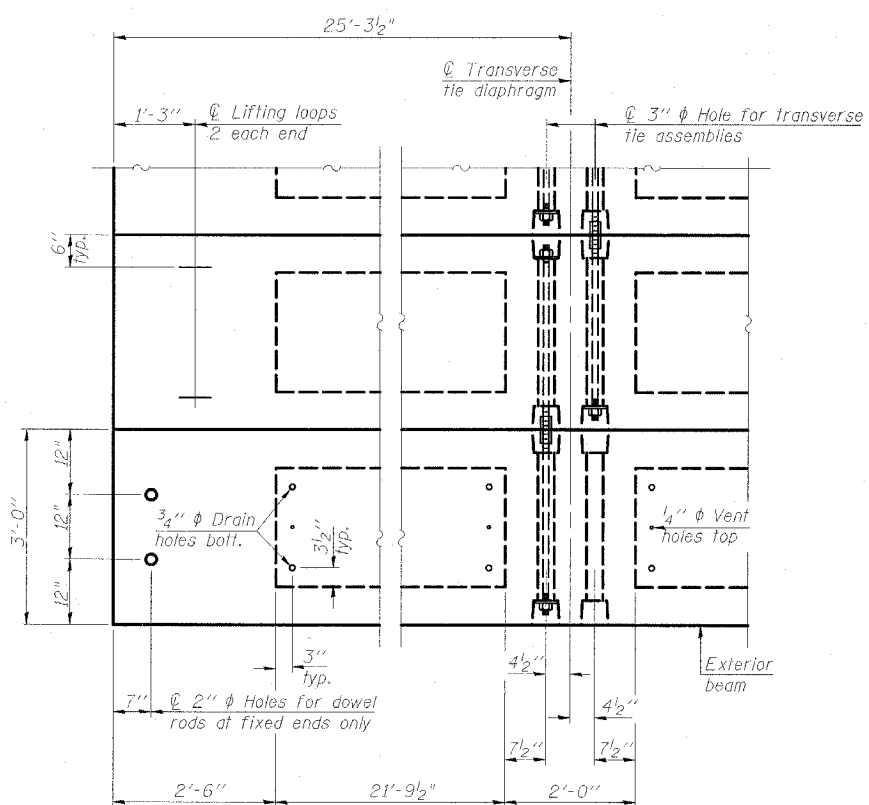
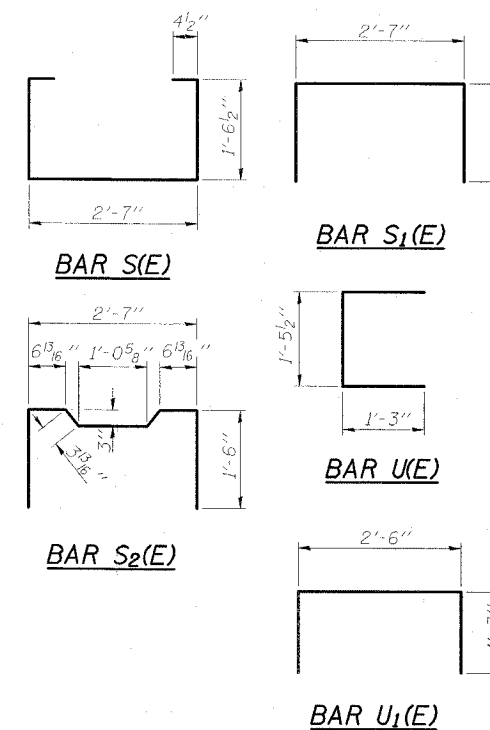
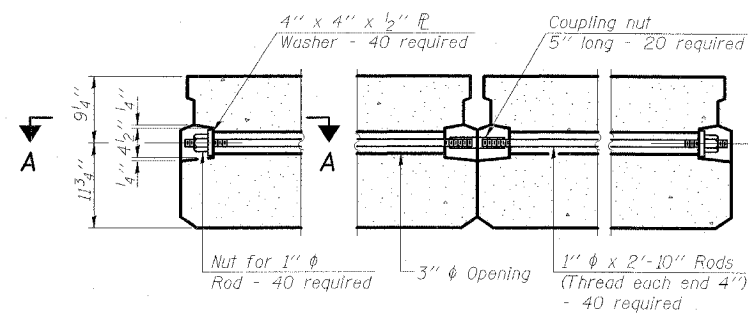
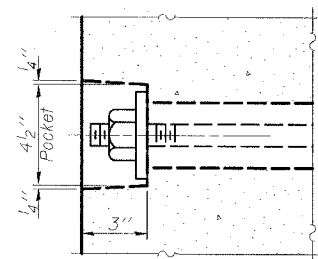
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FIXED



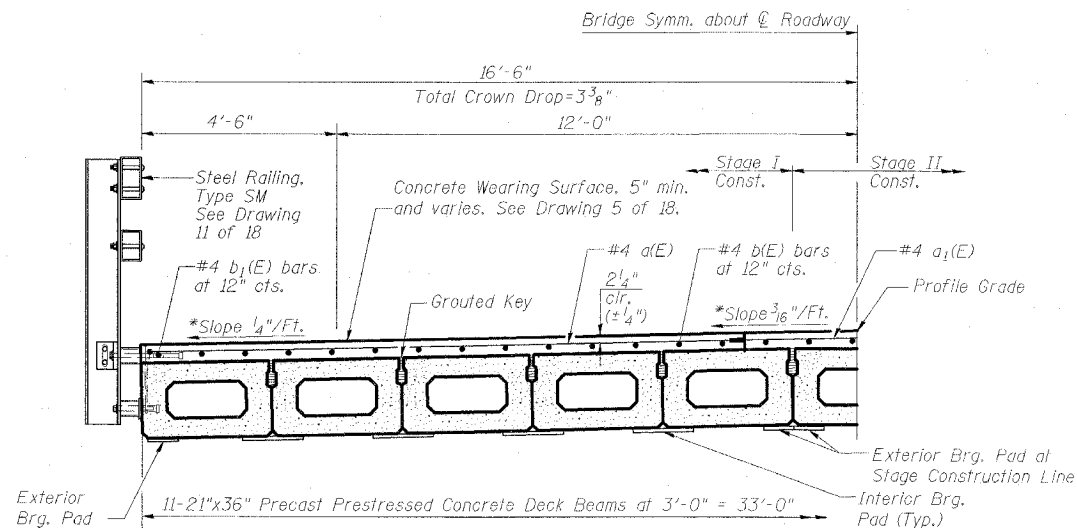
EXPANSION



Note: Connect beams in pairs with the transverse tie configuration shown.

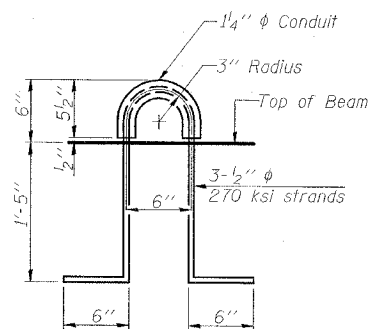
SECTION A-A

TYPICAL TRANSVERSE TIE ASSEMBLY



* Cross slopes shown are applicable to Concrete Wearing Surface.

HALF CROSS SECTION
(Looking West)



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" φ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706 (IL MOD), Grade 60. (See Special Provisions)

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" φ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'_c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'_{ci}, shall be 5000 psi.

See Dwg. No. 2 of 18 for location of rail anchors and additional notes.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Conc. Deck Bms. (21" Depth)	Sq. Ft.	3339

SUPERSTRUCTURE DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

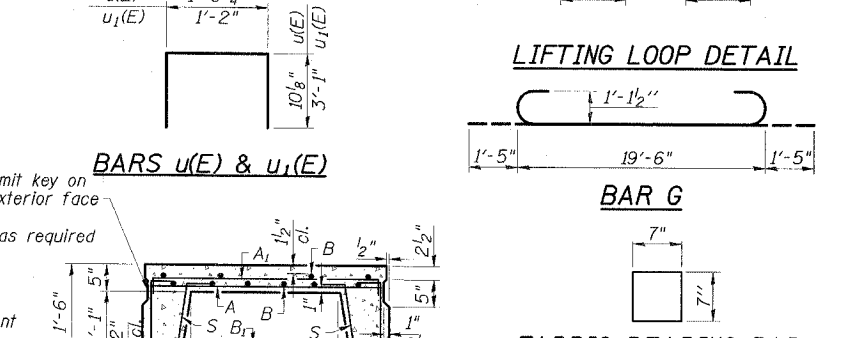
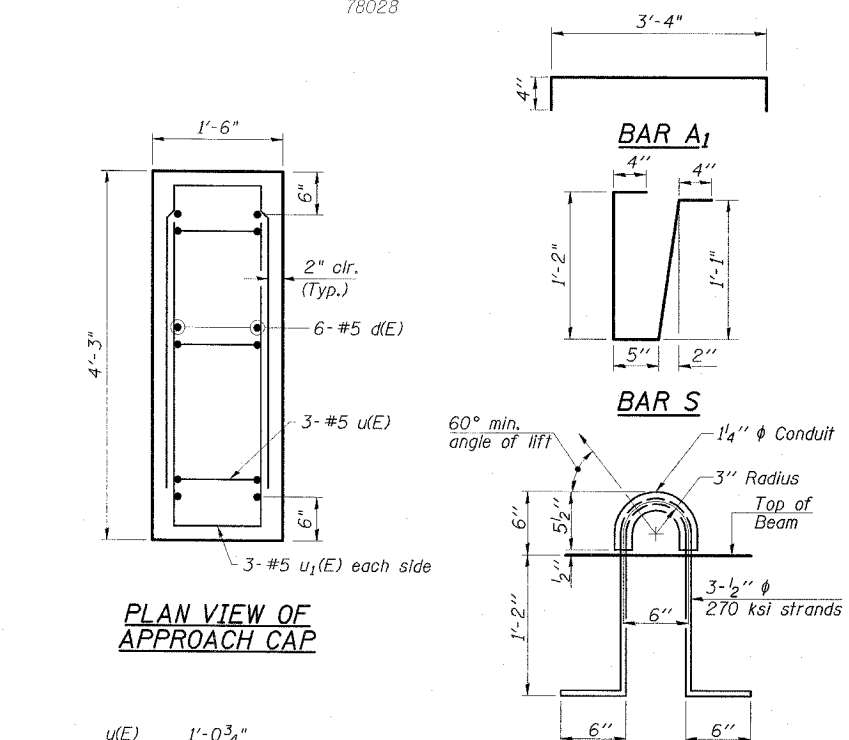
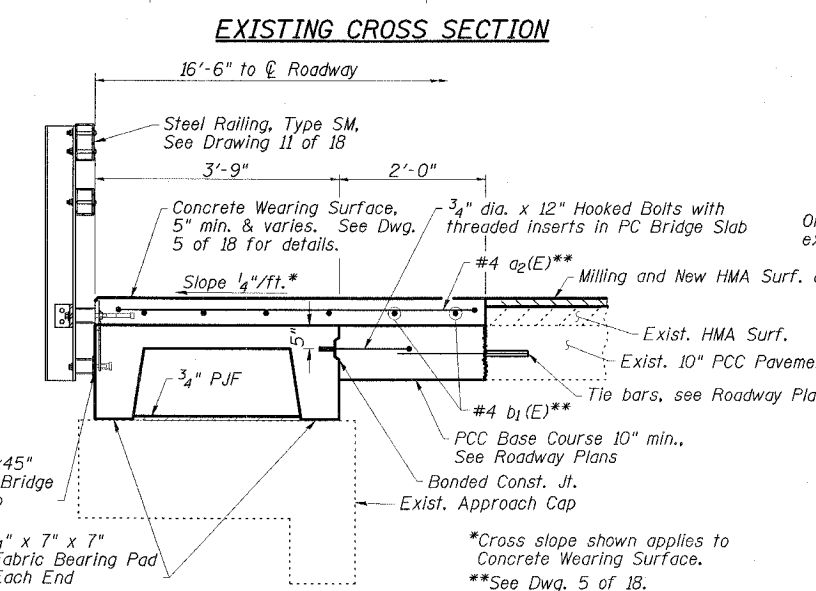
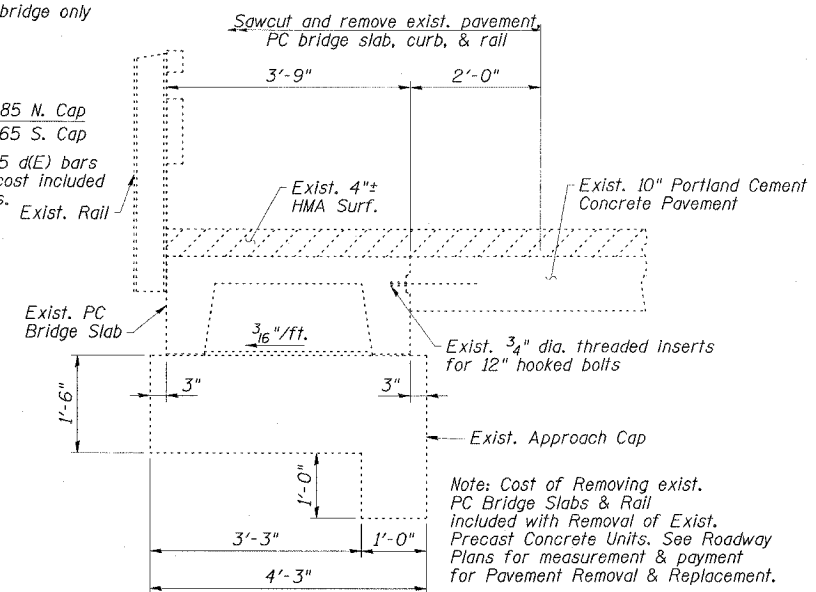
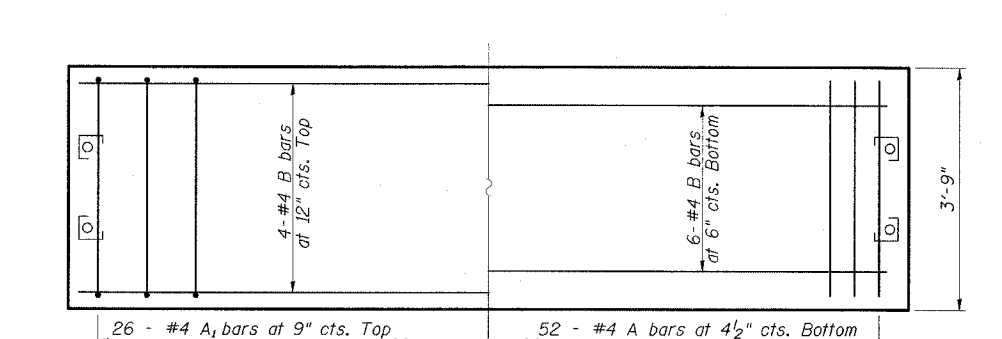
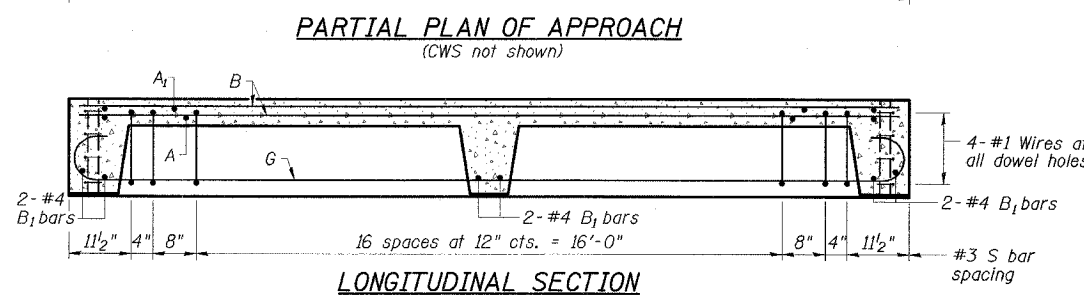
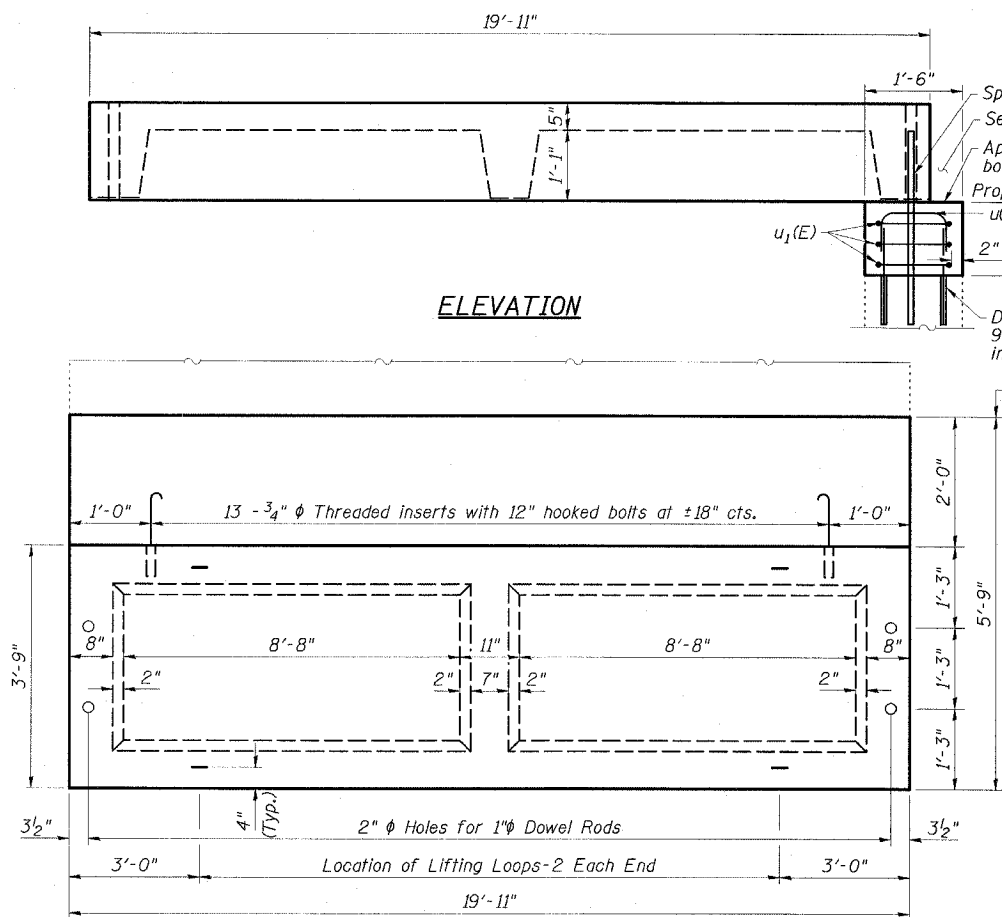
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APPROVED BY:	RDP	01/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 8 18 SHEETS
FAS 899	8BR-2	SALINE	75	43	
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

78028



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	12	#5	1'-7"	—
u(E)	6	#5	2'-9"	□
u ₁ (E)	12	#5	7'-4"	□
Concrete Structures			Cu. Yd.	0.6
Precast Concrete Bridge Slab			Sq. Ft.	299
Reinforcement Bars Epoxy Coated			Pounds	130

NOTES

Reinforcing steel shall conform to ASTM A 706 (IL MOD), Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Bearing Pad shall be provided for each bearing pad location.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the slabs. Cleaning shall be done by sandblasting the keyway areas between top of the slab and the bottom edge of the key.
Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast concrete bridge slabs.
Required Strength, f'_c, shall be 4500 p.s.i.
See Dwg. No. 2 of 18 for location of rail anchors and additional notes.
Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor rods and 3/4" ϕ hooked bolts is included in contract Unit Price for "Precast Concrete Bridge Slab."
The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.
A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

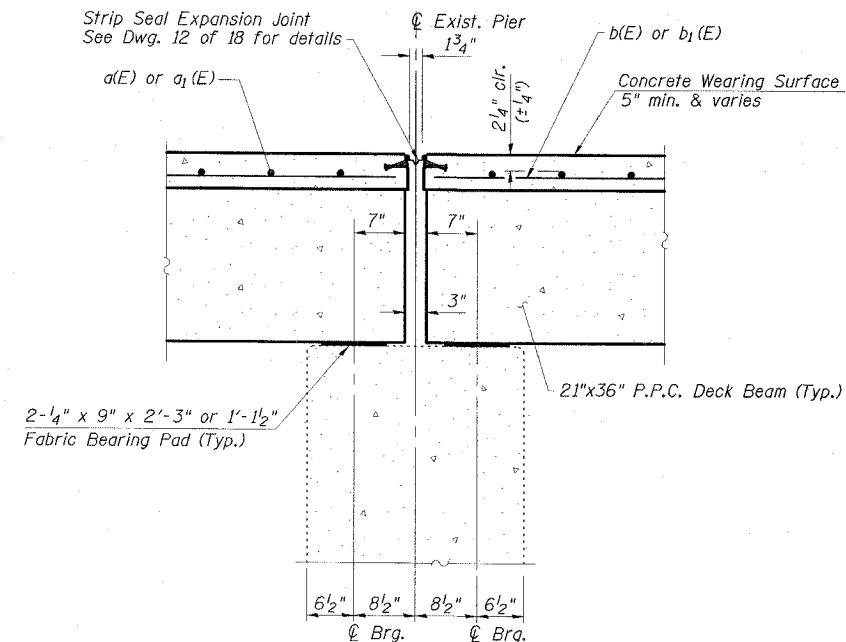
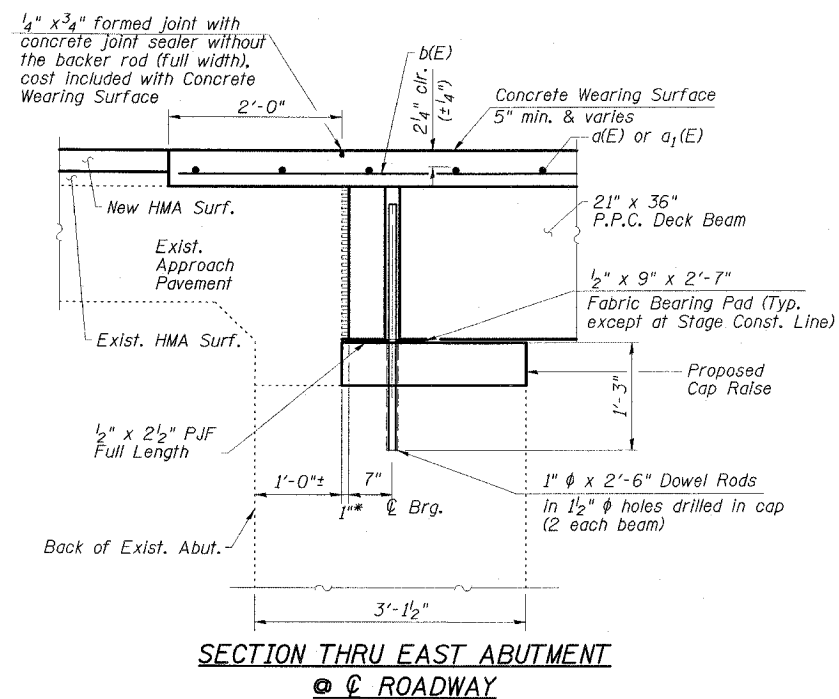
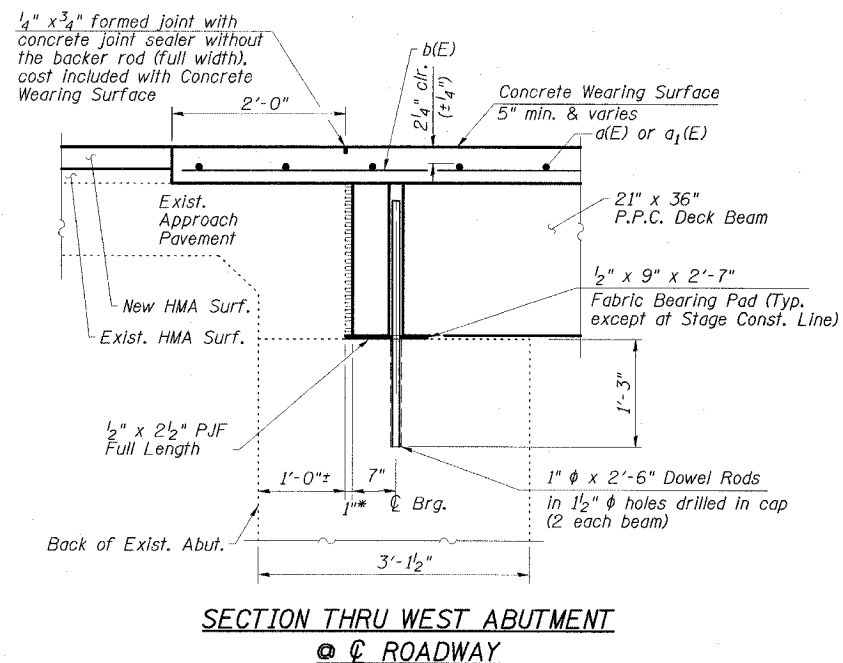
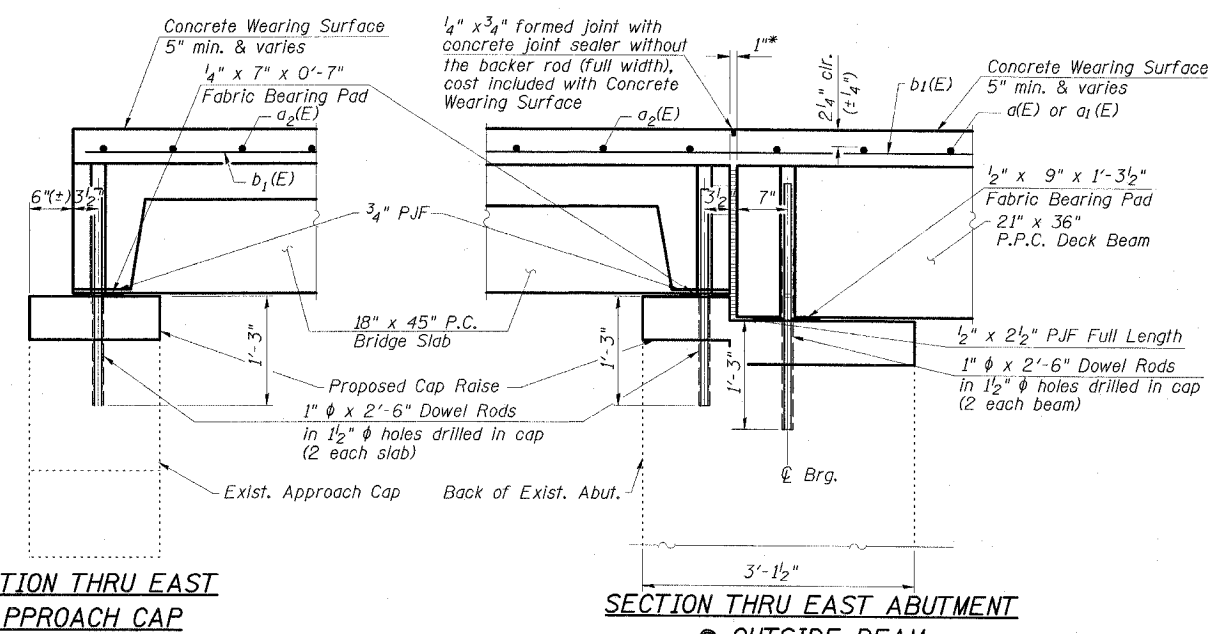
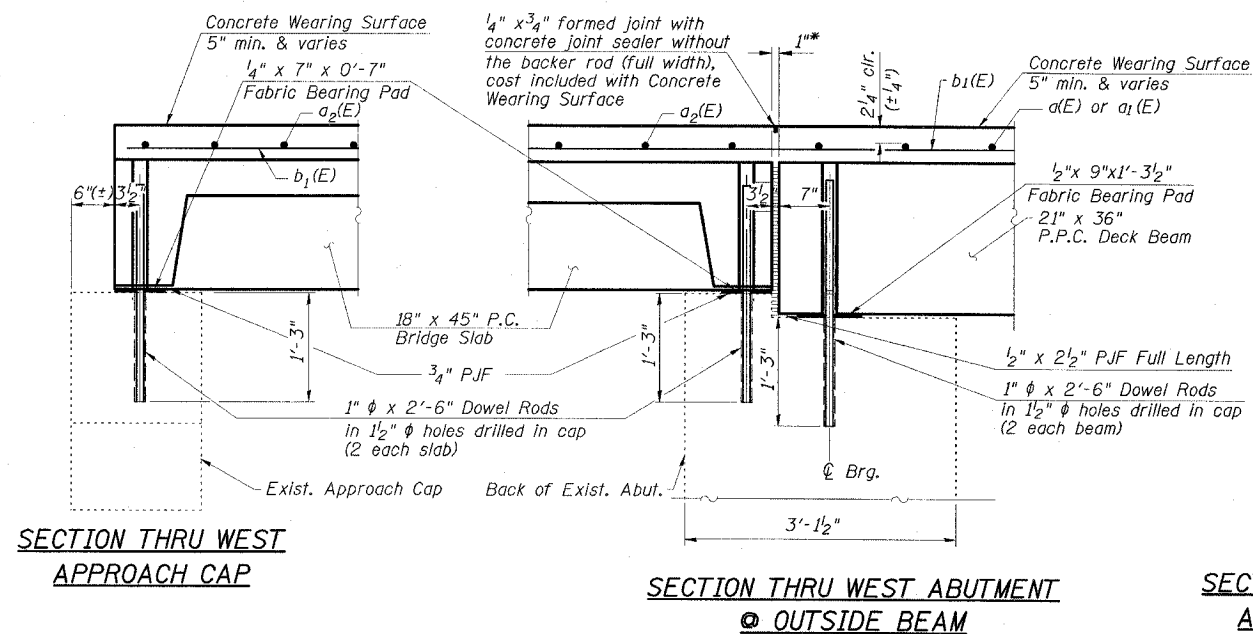
APPROACH DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	02/08
APPROVED BY:	RDP	02/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
FAS 899	BBR-2	SALINE	75	44
SHEET NO. 9 18 SHEETS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
78028				



* Joint shall be filled w/non-shrink grout, 1" dimension may vary to meet field conditions, cost included in PPC Deck Beams.

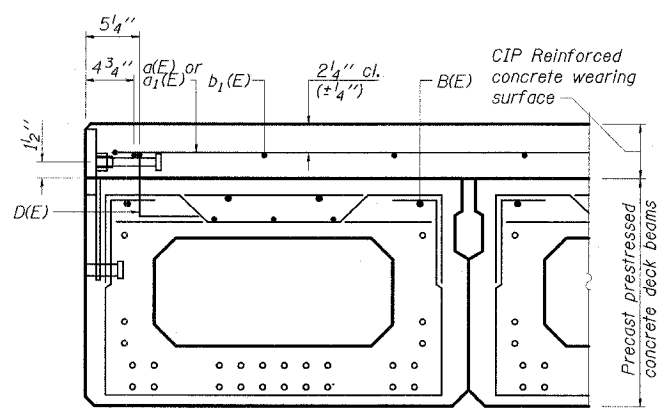
ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 10/07
DRAWN BY: CJ/HAS 10/07
CHECKED BY: DAJ/ELH 01/08
APPROVED BY: RDP 01/08

SUPERSTRUCTURE AND APPROACH DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

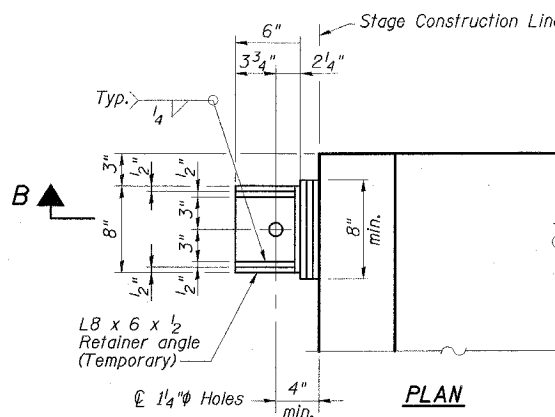
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FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT			

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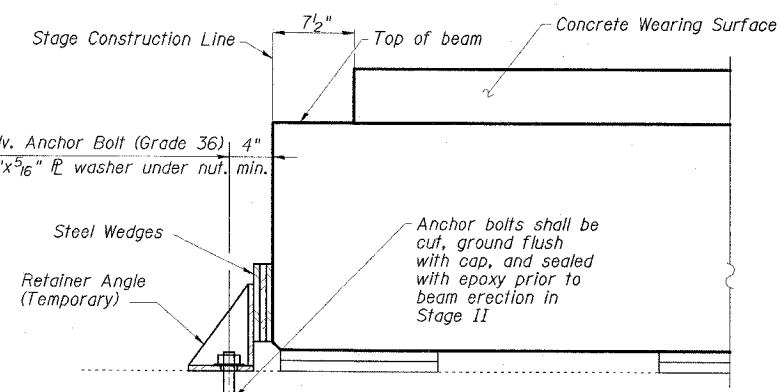
FASCIA BEAM CROSS SECTION

See Typical Section on Dwg. 6 of 18 for strand pattern, dimensions and bar call outs.



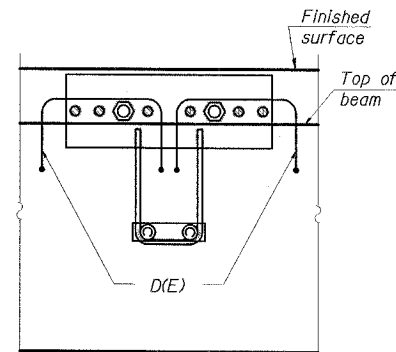
PLAN

BEAM RETAINER DETAILS AT STAGE CONSTRUCTION LINE
(2 Required)

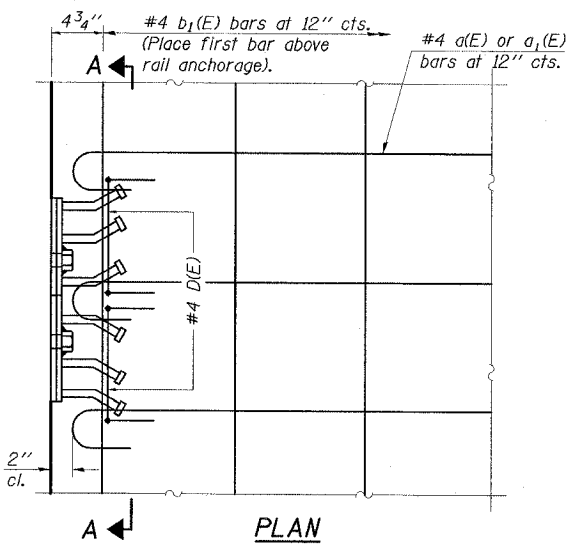
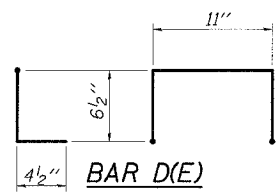


SECTION B-B

Cost of Retainer Angles, Anchor Bolts & accessories is included with Precast Prestressed Concrete Deck Beams. See Dwg. 17 of 18 for Anchor Bolt notes.



SECTION A-A



PLAN

CONCRETE OVERLAY MODIFICATIONS FOR RAIL ANCHORAGE
(Bridge shown, Approach similar)

NOTES

After beams have been erected, holes shall be drilled into substructure and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

Concrete wearing surface to be poured after grouting the shear keys.

Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (21" Depth) or Precast Concrete Bridge Slabs.

The rail anchorage shall be cast with the beam or slab and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam or slab. Drilling into the beam or slab will not be permitted.

SUPERSTRUCTURE AND APPROACH DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

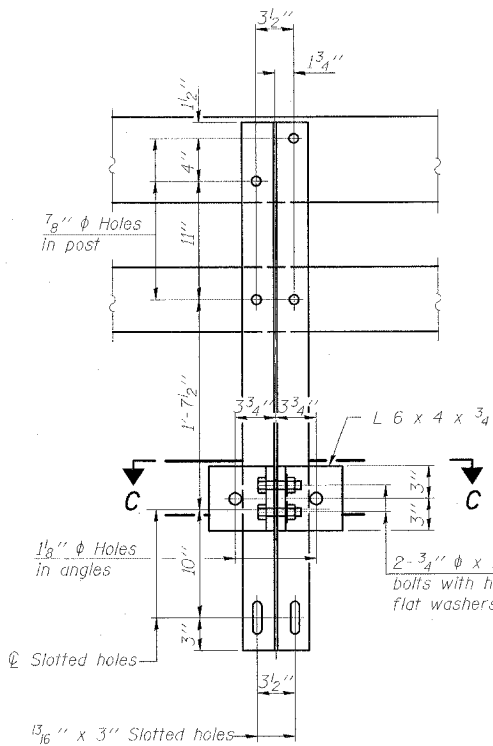
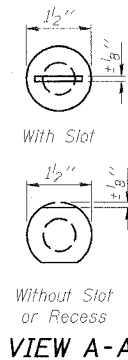
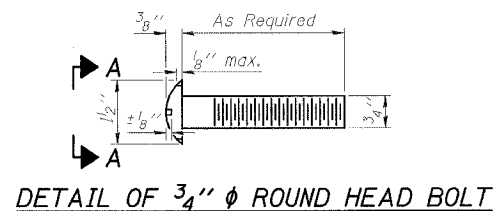
ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

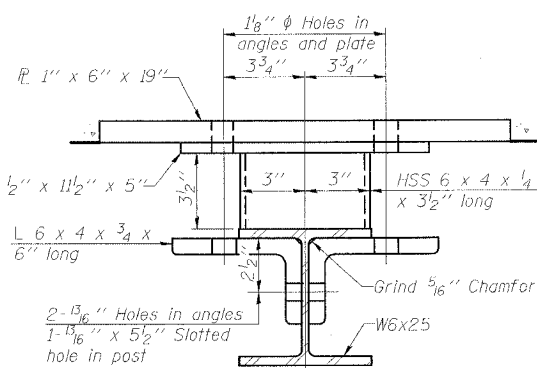
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET	SHEET NO. 11 18 SHEETS
FAS 899	8BR-2	SALINE	75	45	
FED. ROAD DIST. NO. 4	BUSINESS	FED. AID PROJECT			

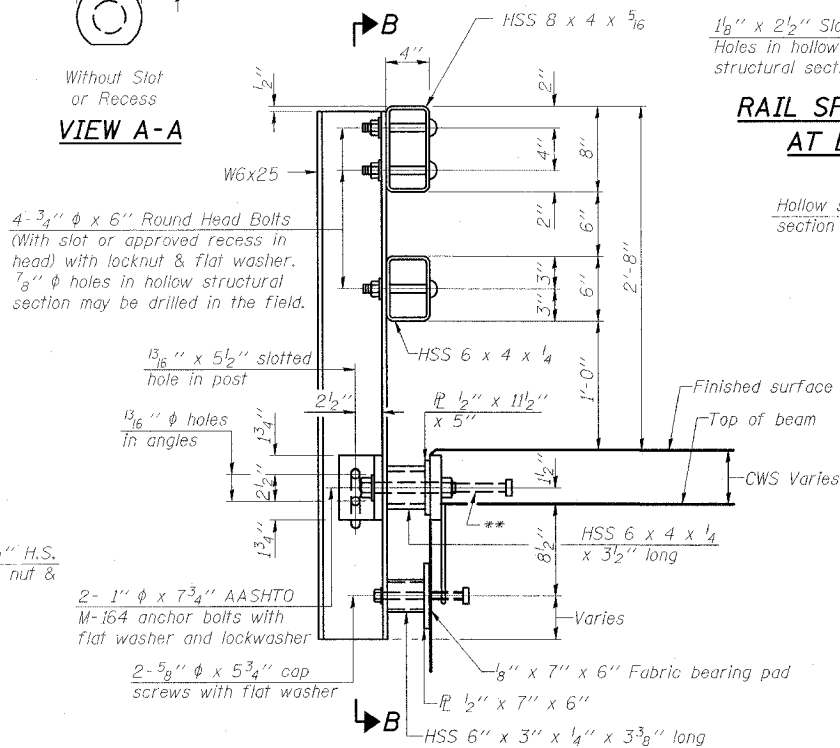
78028



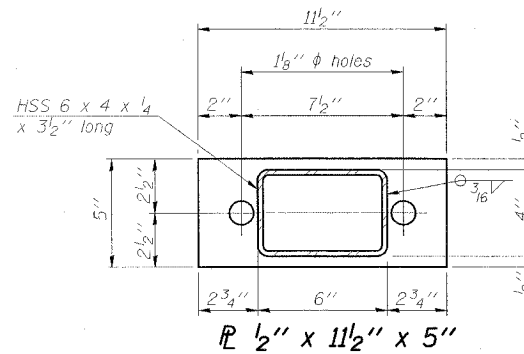
SECTION B-B



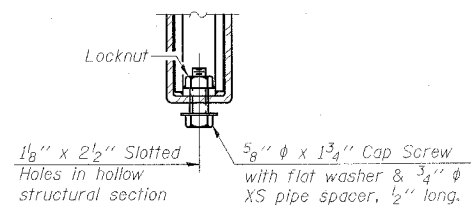
SECTION C-C



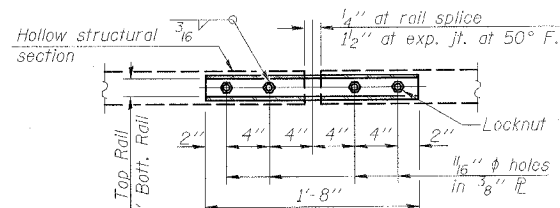
SECTION AT RAIL POST



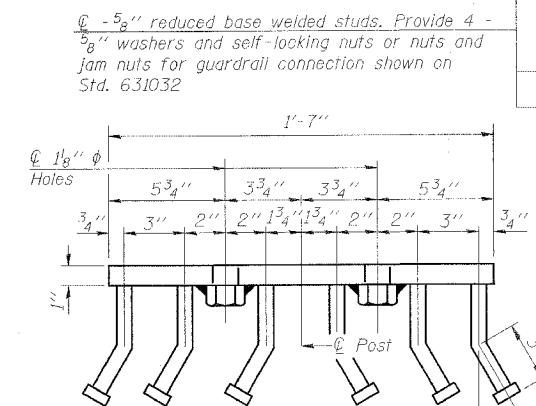
PLAN-BOTT. SPLICE AT TYPICAL



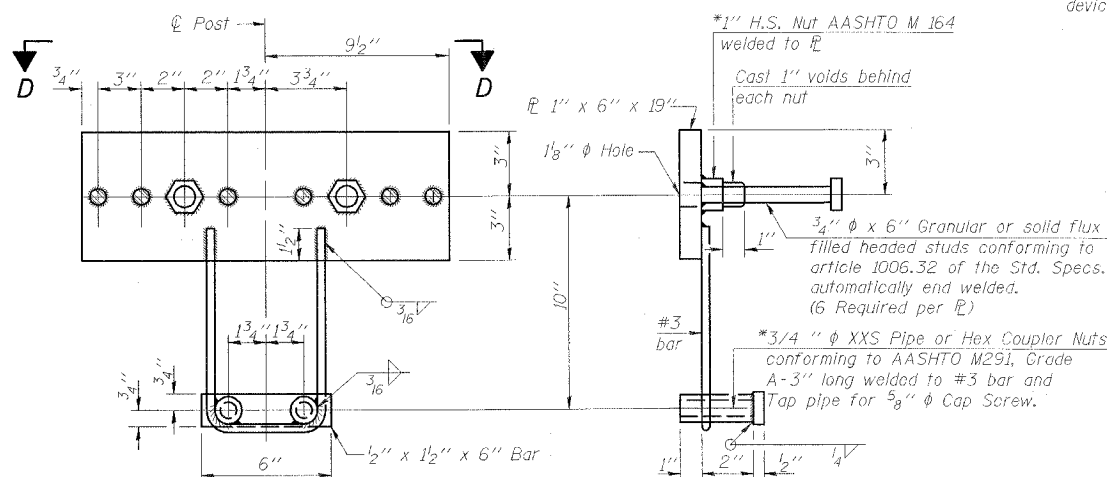
RAIL SPLICE CONNECTION AT EXPANSION JT.



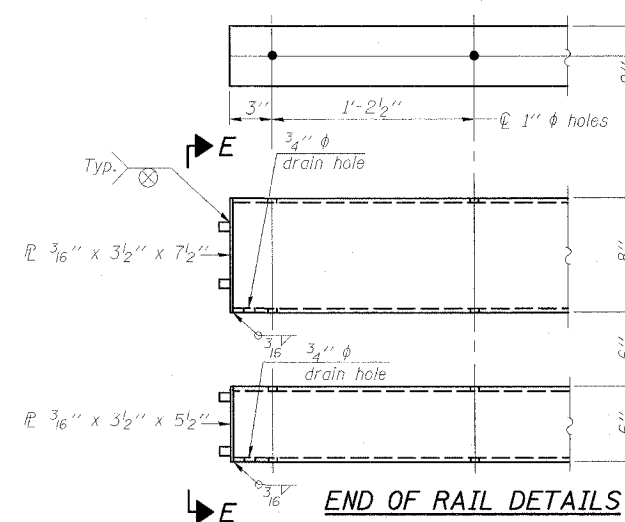
SECTION AT RAIL SPLICE



VIEW D-D



ANCHOR DEVICE



END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	283

STEEL RAILING, TYPE SM
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

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CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

R-34CWS

9-3-07

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/8" maximum CWS thickness)

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 12
FAS 899	8BR-2	SALINE	75	47	18 SHEETS
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT		
78028					

GENERAL NOTES

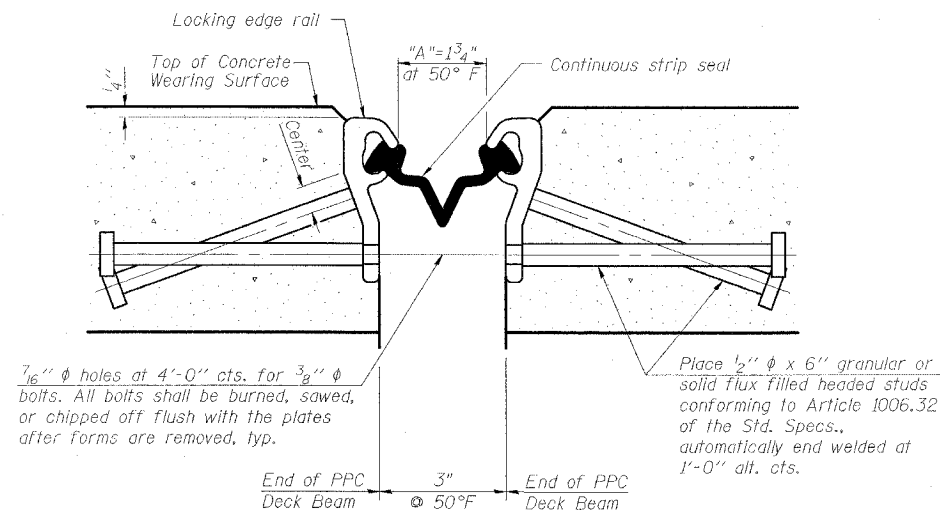
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

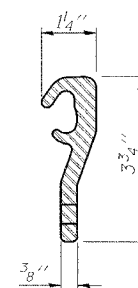
The manufacturer's recommended installation methods shall be followed.

All Steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

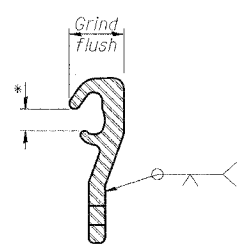


**SECTION THRU STRIP SEAL JOINT
FOR OVERLAY OVER DECK BEAMS**

* Omit weld at seal opening.



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

BILL OF MATERIAL

Item	Unit	Quantity
Preformed Joint Strip Seal	Foot	33

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CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

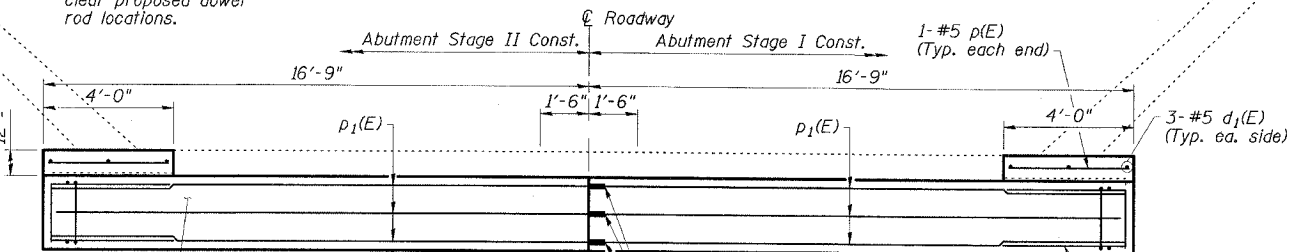
**STRIP SEAL EXPANSION JOINT
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 13 18 SHEETS
FAS 899	8BR-2	SALINE	75	48	
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT			

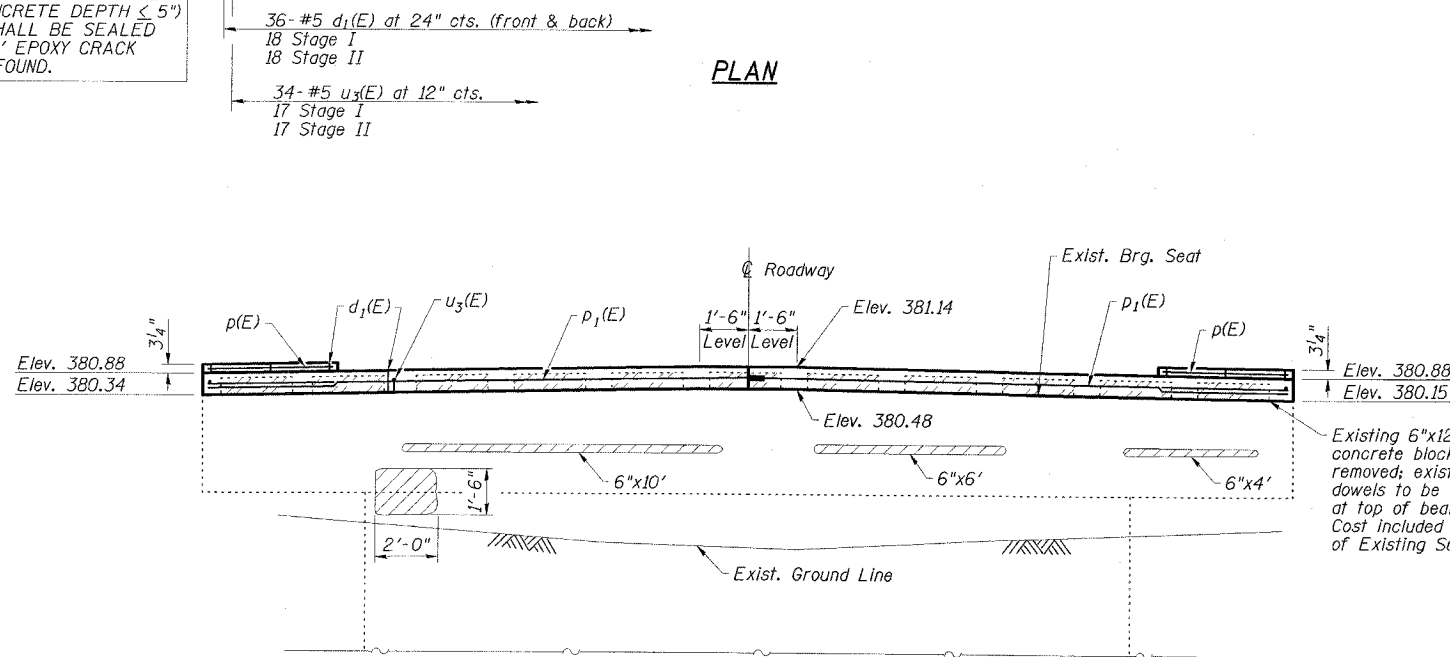
78028

Note: Locate reinforcement to clear proposed dowel rod locations.



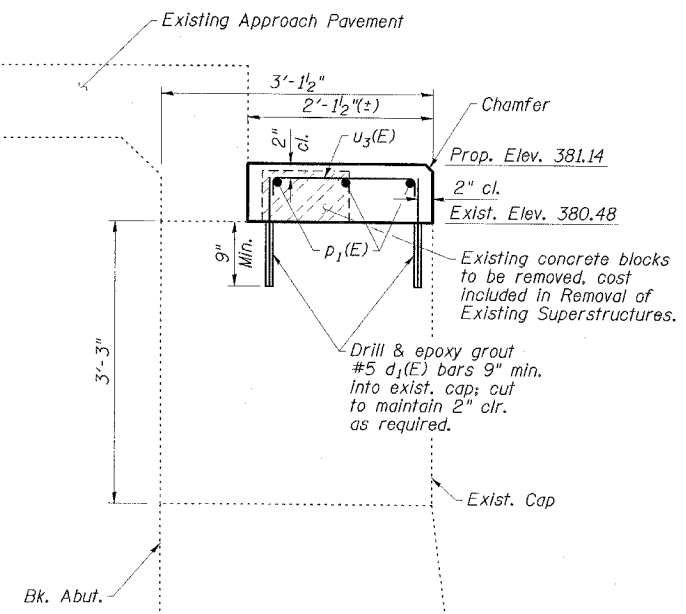
PLAN

EXISTING BEARING SEAT TO BE INSPECTED BY THE ENGINEER AFTER DECK BEAM REMOVAL. DETERIORATED CONCRETE AREAS SHALL BE REPAIRED (ESTIMATED 15 S.F. STRUCTURAL REPAIR OF CONCRETE DEPTH < 5") AND CRACKS SHALL BE SEALED (ESTIMATED 20' EPOXY CRACK INJECTION) IF FOUND.

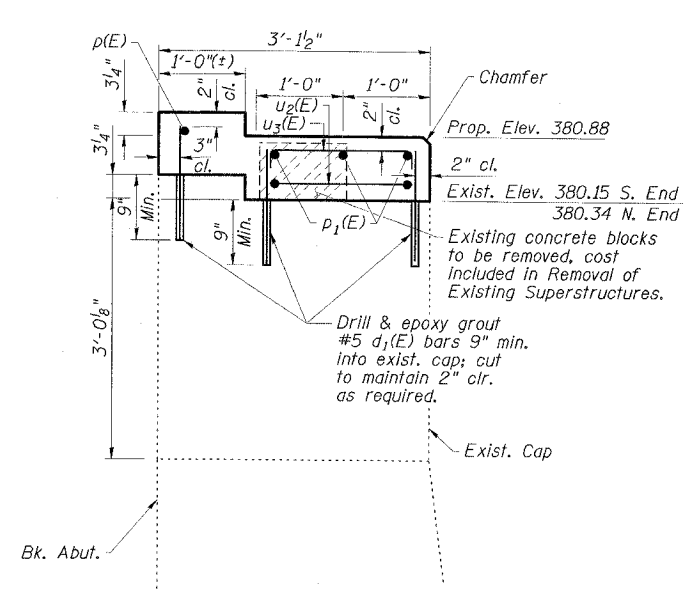


ELEVATION

ABUTMENT CRACK REPAIR LENGTHS AND STRUCTURAL REPAIR OF CONCRETE AREAS ARE ESTIMATED FROM 12-11-07 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON THE AS-BUILT PLANS FOR THIS SECTION.



SECTION THRU ABUTMENT
@ ROADWAY



SECTION THRU ABUTMENT
@ OUTSIDE BEAM

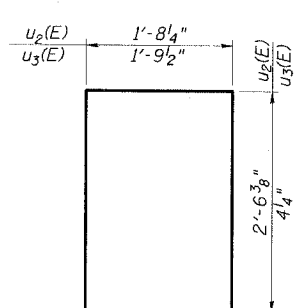
EAST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁ (E)	42	#5	1'-3"	—
p(E)	2	#5	3'-8"	—
p ₁ (E)	6	#5	16'-5"	—
u ₂ (E)	2	#5	6'-9"	—
u ₃ (E)	34	#5	2'-6"	—
Concrete Structures		Cu. Yd.	1.9	
Bar Splicers		Each	3	
Reinforcement Bars, Epoxy Coated		Pounds	270	
Concrete Sealer		Sq. Ft.	108	
Epoxy Crack Injection		Foot	20	
Structural Repair of Concrete (Depth Equal to or Less Than 5")		Sq. Ft.	28	

REPAIR LEGEND

Inspection Date: 12/11/07

- C-6' Crack to be epoxy injected
- Delaminated or Spalled Area - Use Structural Repair of Concrete
- Rust Spot



BARS u₂(E) & u₃(E)

EAST ABUTMENT
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA
CONSULTANTS, INC.

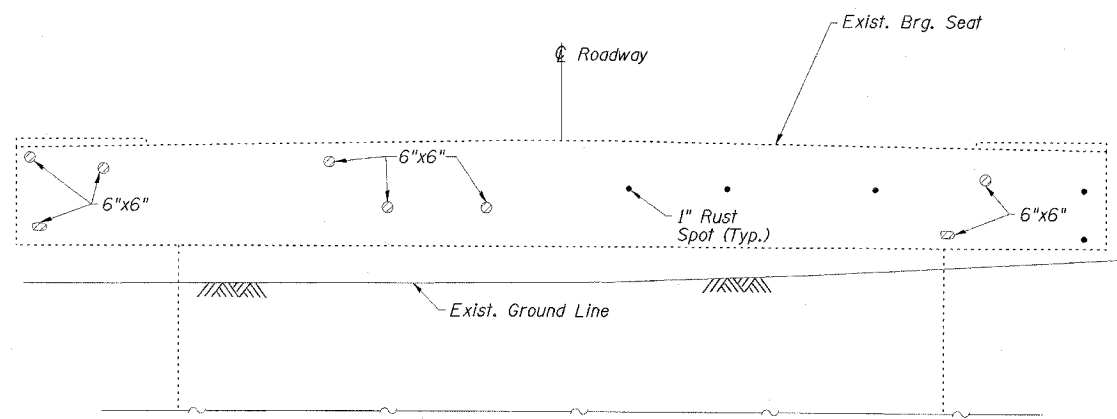
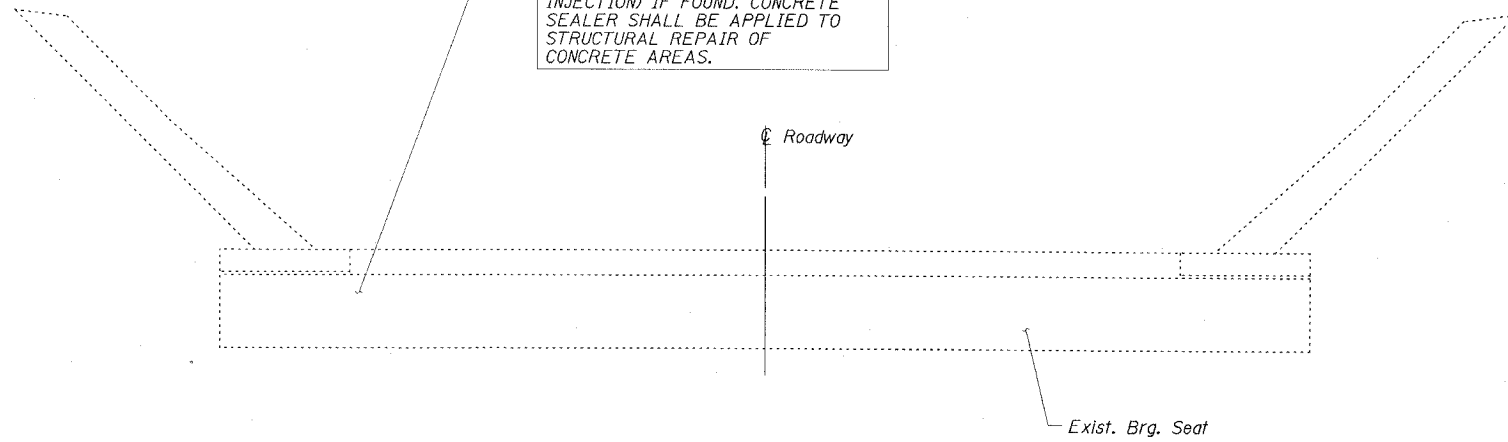
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DA/VELH	01/08
APPROVED BY:	RDP	01/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

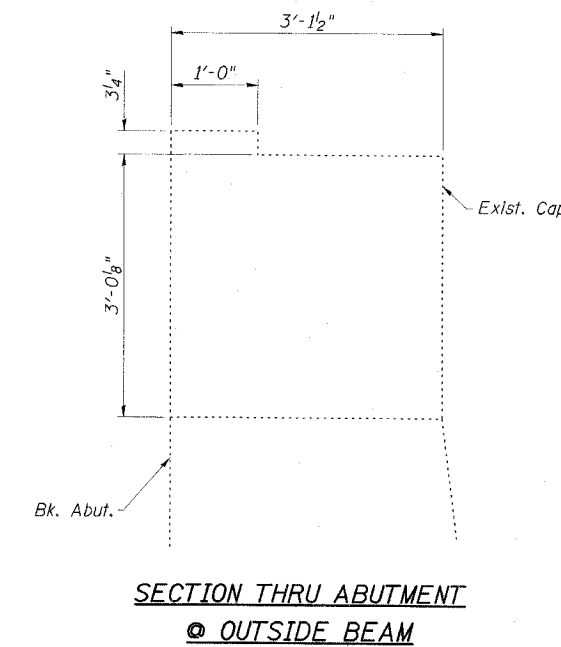
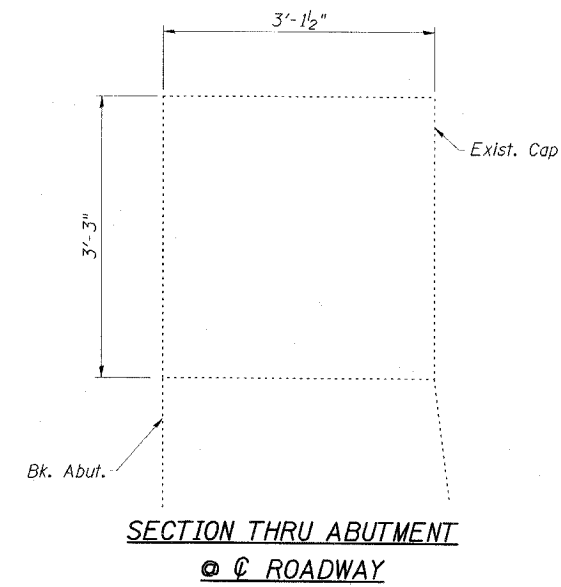
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO. 14 18 SHEETS
FAS 899	8BR-2	SALINE	75	49	
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT	

78028

EXISTING BEARING SEAT TO BE INSPECTED BY THE ENGINEER AFTER DECK BEAM REMOVAL. DETERIORATED CONCRETE AREAS SHALL BE REPAIRED (ESTIMATED 15 S.F. STRUCTURAL REPAIR OF CONCRETE DEPTH < 5") AND CRACKS SHALL BE SEALED (ESTIMATED 20' EPOXY CRACK INJECTION) IF FOUND. CONCRETE SEALER SHALL BE APPLIED TO STRUCTURAL REPAIR OF CONCRETE AREAS.



ABUTMENT CRACK REPAIR LENGTHS AND STRUCTURAL REPAIR OF CONCRETE AREAS ARE ESTIMATED FROM 12-11-07 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON THE AS-BUILT PLANS FOR THIS SECTION.



WEST ABUTMENT
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Sealer	Sq. Ft.	15
Epoxy Crack Injection	Foot	20
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	17

REPAIR LEGEND

Inspection Date: 12/11/07

- C-6' Crack to be epoxy injected
- Delaminated or Spalled Area - Use Structural Repair of Concrete
- Efflorescent Crack
- Rust Spot

ESCA
CONSULTANTS, INC.

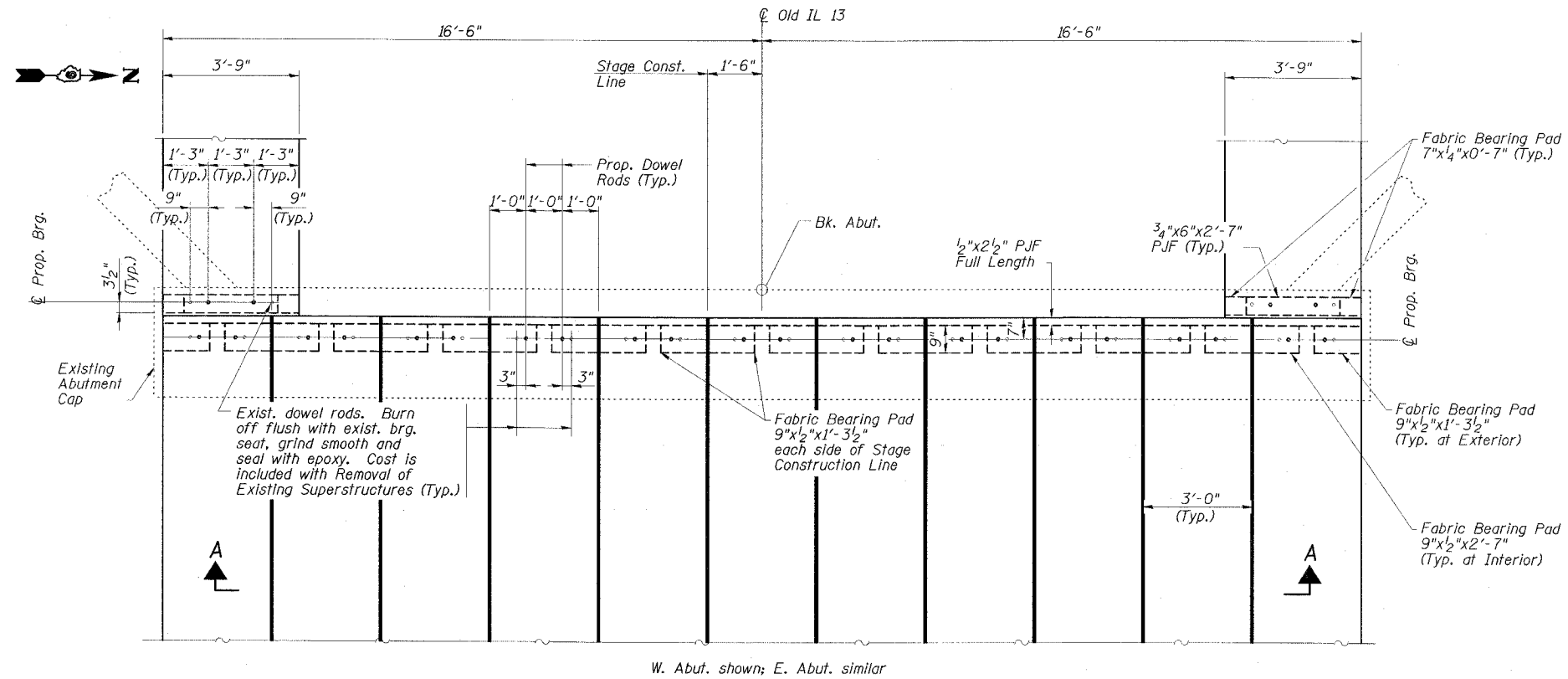
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

WEST ABUTMENT
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION R02+60.00
STRUCTURE NO. 083-0036

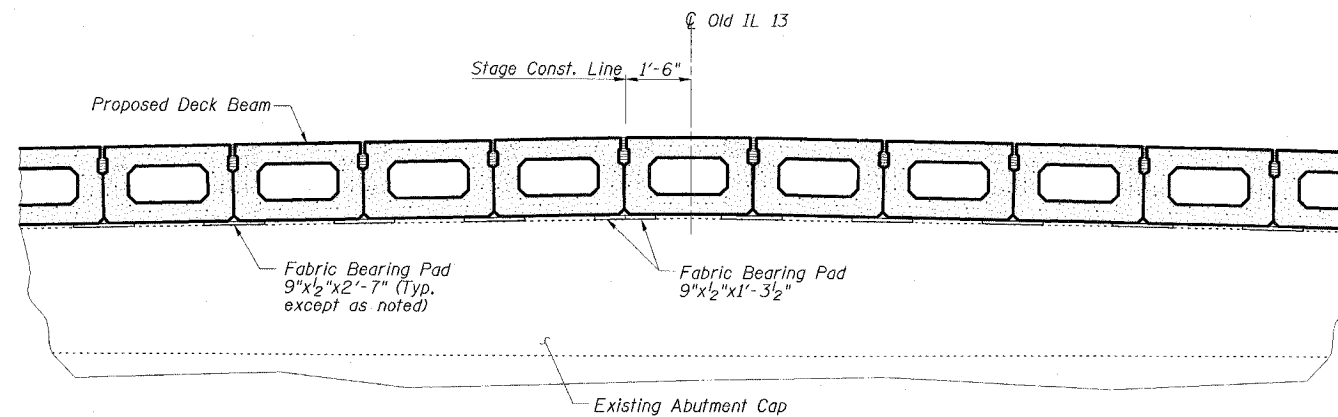
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATION	SHEET	SHEET NO. 15 18 SHEETS
FAS 899	BDR-2	SALINE	75	50	
FED. PROJ. LIST NO.		ILLINOIS	FED. AID PROJECT		

78028



W. Abut. shown; E. Abut. similar
ABUTMENT BEARING SEAT PLAN
(Concrete Wearing Surface and approach pavement not shown)



SECTION A-A
(Concrete Wearing Surface not shown)

ABUTMENT DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 16
FAS 899	BBR-2	SALINE	75	51	18 SHEETS
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT		




78028

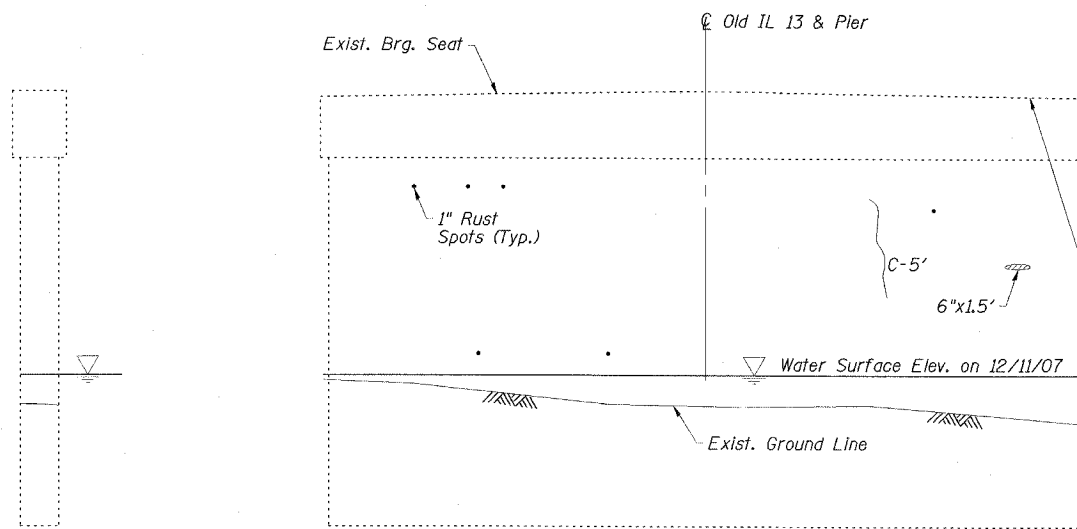
PIER
BILL OF MATERIAL

Item	Unit	Total
Epoxy Crack Injection	Foot	25
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	17
Concrete Sealer	Sq. Ft.	15

REPAIR LEGEND

Inspection Date: 12/11/07

-  C-6' Crack to be epoxy injected
-  Delaminated or Spalled Area - Use Structural Repair of Concrete
-  Rust Spot

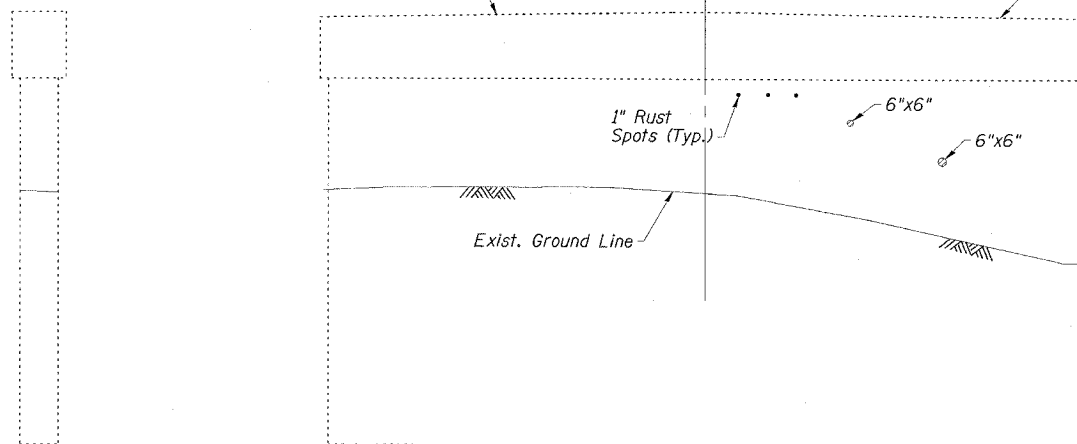


SOUTH END

EAST ELEVATION

EXISTING BEARING SEAT TO BE INSPECTED BY THE ENGINEER AFTER DECK BEAM REMOVAL. DETERIORATED CONCRETE AREAS SHALL BE REPAIRED (ESTIMATED 15 S.F. STRUCTURAL REPAIR OF CONCRETE DEPTH < 5") AND CRACKS SHALL BE SEALED (ESTIMATED 20' EPOXY CRACK INJECTION) IF FOUND. CONCRETE SEALER SHALL BE APPLIED TO CONCRETE REPAIR AREAS.

NOTE: PIER CRACK REPAIR LENGTHS AND STRUCTURAL REPAIR OF CONCRETE AREAS ARE ESTIMATED FROM 12-11-07 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON THE AS-BUILT PLANS FOR THIS SECTION.



NORTH END

WEST ELEVATION

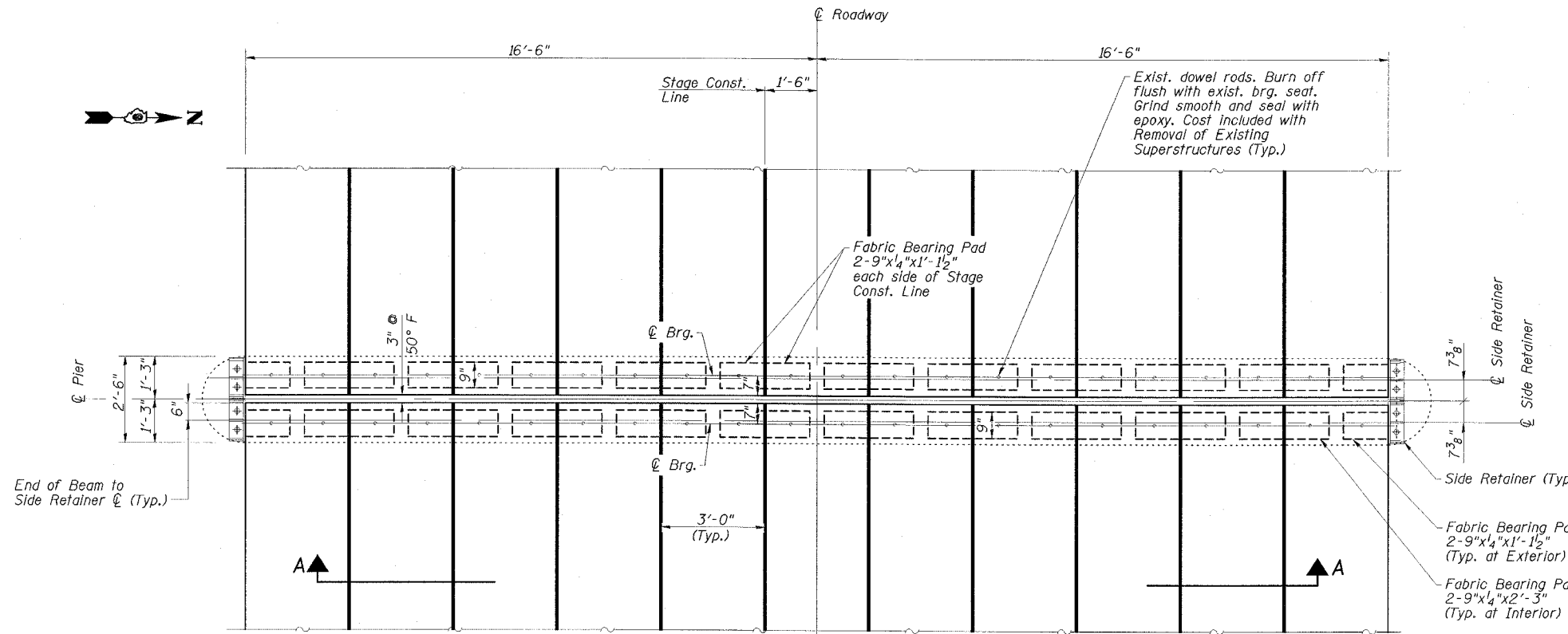
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CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

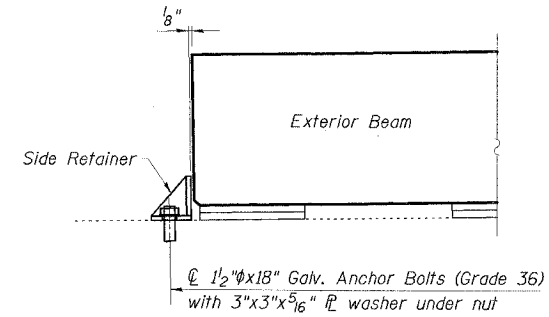
PIER
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 17 18 SHEETS
FAS 899	8BR-2	SALINE	75	52	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT:		78028



PIER BEARING SEAT PLAN
(Concrete Wearing Surface and expansion joint not shown)



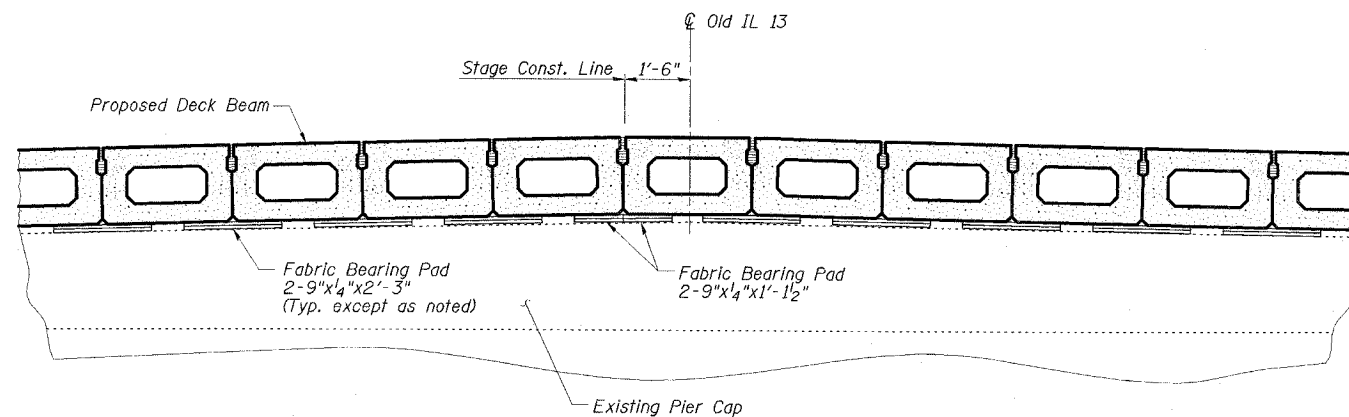
EXTERIOR BEAM RETAINER DETAILS
(4 Required)

Cost of Retainer Angles, Anchor Bolts & accessories are included with Precast Prestressed Concrete Deck Beams.

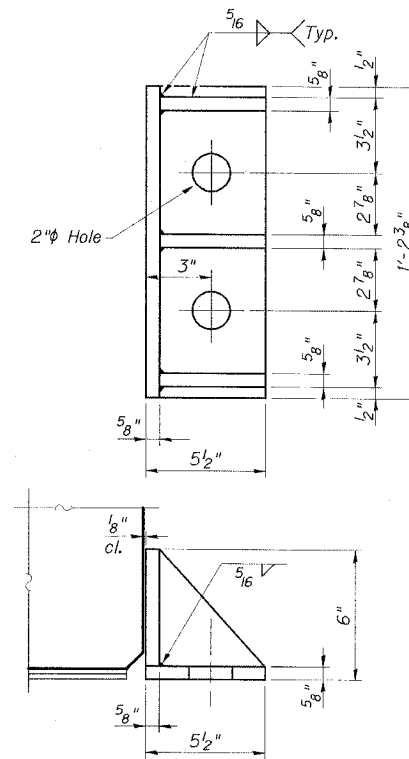
Fill 1/8" gap with shim to provide temporary lateral support until shear keys have been grouted and concrete wearing surface has been placed.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) 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 the Standard Specifications.



SECTION A-A
(Concrete Wearing Surface not shown)



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

PIER DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. FAS 899	SECTION 8BR-2	COUNTY SALINE	DATE 75	SHEET 53	SHEET NO. 18 18 SHEETS
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT		

78208

The diameter of this part is the same as the diameter of the bar spliced.

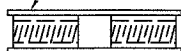
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

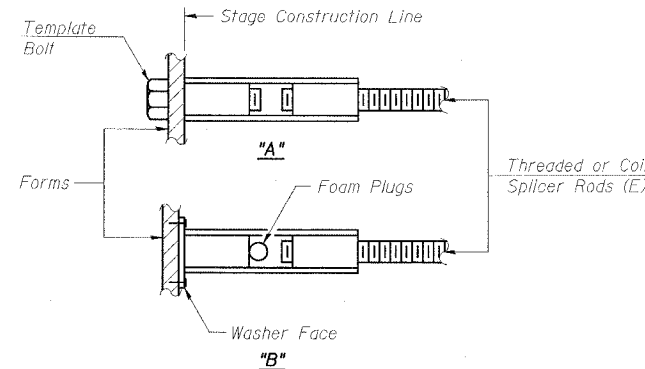
Wire Connector



WELDED SECTIONS

BAR SPICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

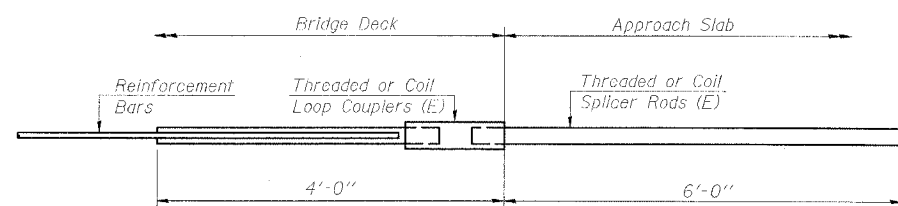
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

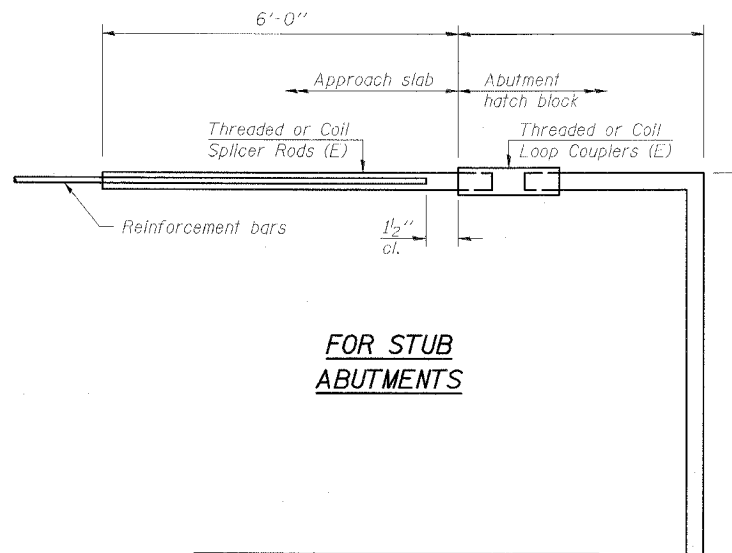
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



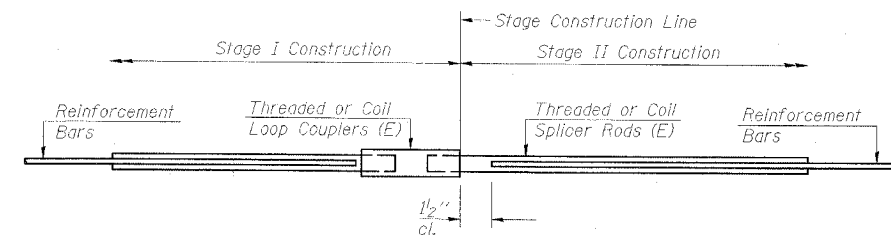
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#4	106	Concrete Wearing Surface
#5	3	East Abutment

BAR SPICER ASSEMBLY DETAILS
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	01/08
APPROVED BY:	RDP	01/08

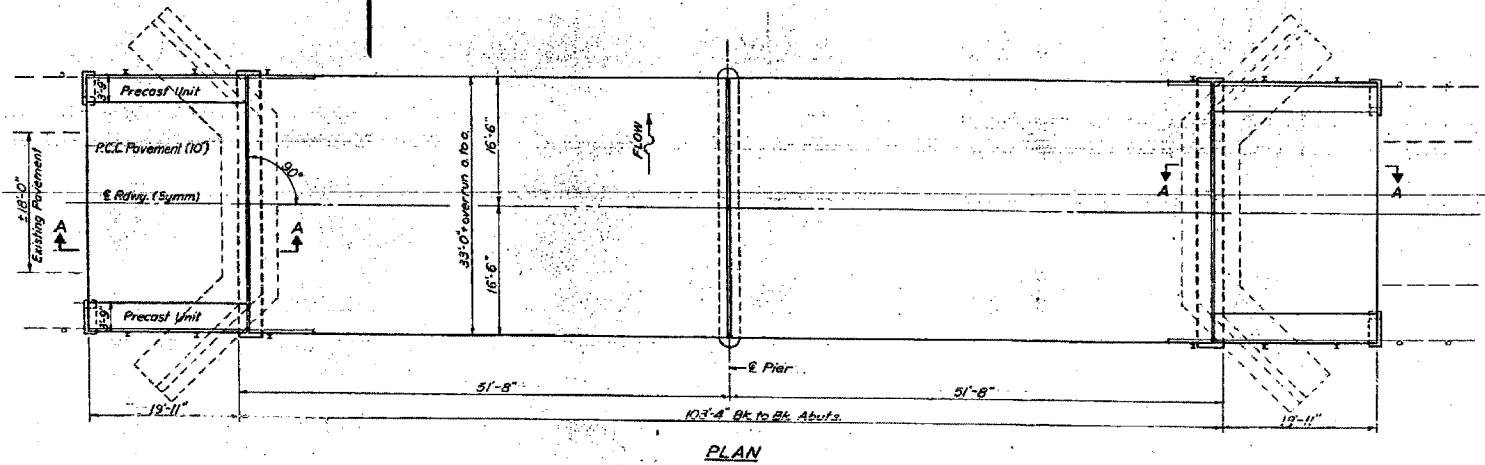
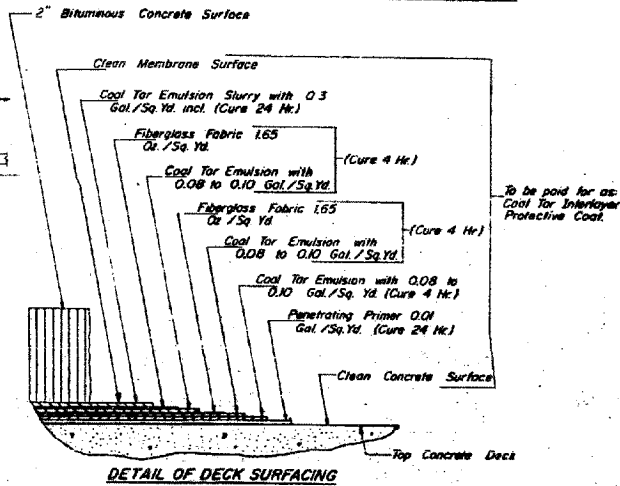
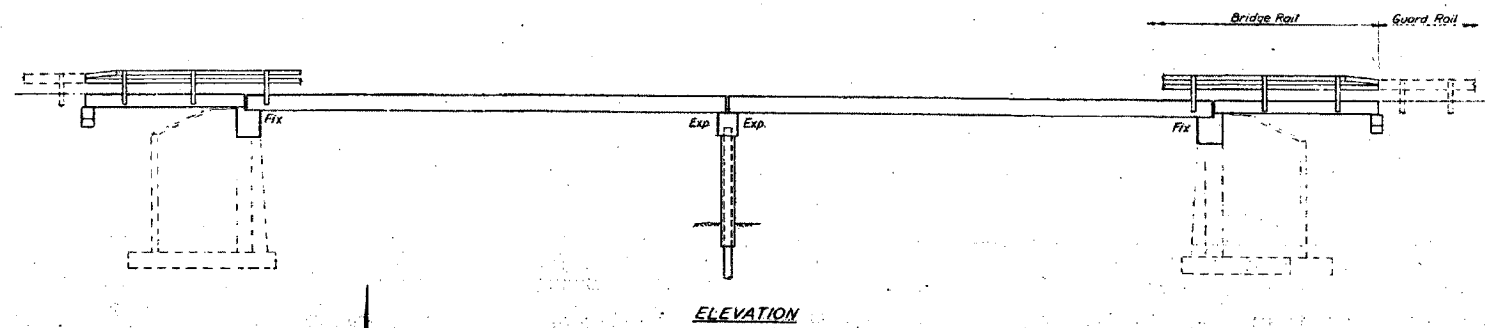


CONTRACT NO. 78028			
FAS RTE	SECTION	COUNTY	TOTAL SHEET NO.
899	BBR-2	SALINE	75 54
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT

Built as S.B.I. Pl. 13, Sec. 8 B.D., Sta. 802+60, Year 1922
 Existing Structure: 100 Truss Superstructure (19'-0" Roadway)
 to be removed. No salvage value. Closed concrete
 abutments to remain in place. Existing Superstructure to
 be removed after Temporary Bridge and Detour Road
 are completed. Temporary Bridge shall be a 80 ft. four
 span bridge with a 2 1/2 ft. roadway H 20 Loading.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
884	SALINE	51	5 SHEETS



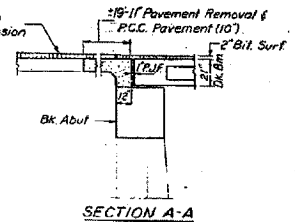
GENERAL NOTES
 All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials. An alternate strand pattern using Extra High Strength Prestressing strand (270 ksi) is permitted.
 Expansion bolts shall consist of self drilling expansion anchors and 3/8" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
 Shoulder transition to wingwall shall be shaped with broken concrete.
 Cost incidental.
 Limits of Cool Tar Interlayer Protective Coat shall be back to back of abutments.
 Any excavation shall be incidental to Bridge Contract.

TOTAL BILL OF MATERIAL

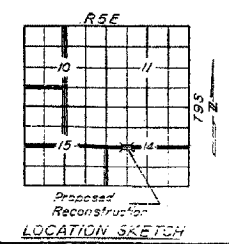
Item	Unit	Super	Sub.	Total
Pavement Removal	Sq Yds	80		80
Portland Cement Concrete Pavement (10')	Sq Yds	113		113
Fiberglass Fabric	Sq Yds	113		113
Concrete Removal	Cu Yds		18	18
Class X Concrete	Cu Yds		63.0	63.0
Precast Concrete Bridge Slab	Sq Ft	299		299
Precast Prestressed Concrete Deck Beams (6')	Sq Ft	3336		3336
Steel Rolling, Type N	Lin Ft	282		282
Reinforcement Bars	Lbs.		6260	6260
Removal of Existing Superstructures	Each	1		1
Cool Tar Interlayer Protective Coat	Sq Yds	379		379
Metal Shell Piles (12")	Lin Ft	400		400
Test Piles (Metal Shell)	Each	1		1
Temporary Bridge Complete	Each		1	1

WATERWAY INFORMATION
 Drainage Area - 27,350 Acres
 Character - Rolling, sand, clay, wooded & cultivated
 Opening - 116 Sq Ft
 Q(10) - 5000 CFS

DESIGNED	Jack Armstrong	EXAMINED	OCTOBER 24, 1969
CHECKED	James Ponce	PASSED	
DRAWN	J.L. Armstrong	APPROVED	
CHECKED	JP		



DESIGN STRESSES
 FIELD UNITS
 Fc = 1400 psi. (super)
 Fc = 1000 psi. (sub)
 Fs = 20,000 psi. (reinf)
 Vc = 75 psi. (footing)
 n = 10
 PRECAST PRESTR. UNITS
 Ft = 5000 psi.
 Fci = 4000 psi.
 Fs = 248,000 psi.
 Fai = 173,600 psi.



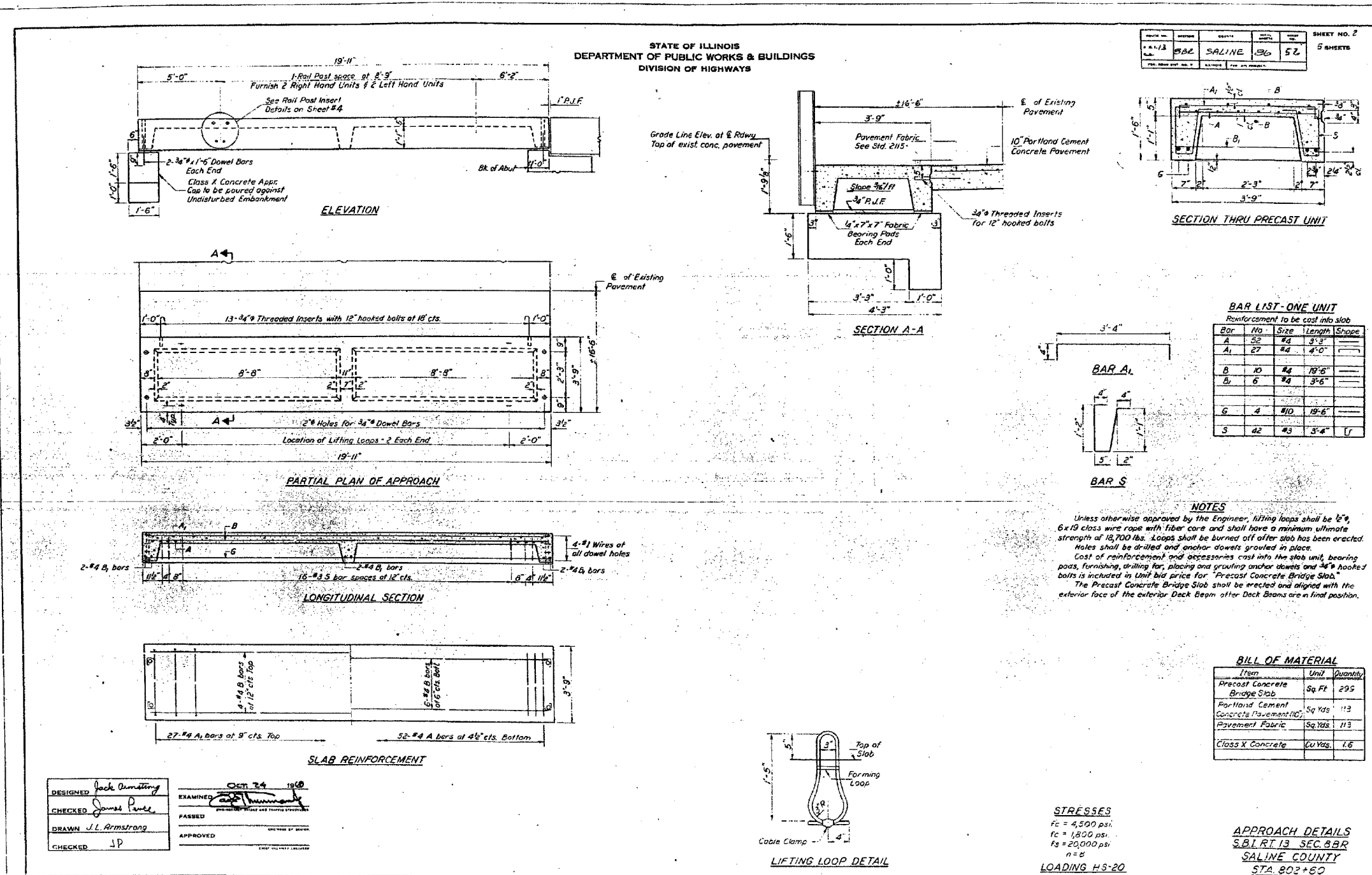
GENERAL PLAN & ELEVATION
 BANKSTON FORK
 S.B.I. RT 13 (ILL 13) SEC 8 BR
 SALINE COUNTY
 STA. 802+60

G-3 Truss Placement

ESCA
 CONSULTANTS, INC.
 DESIGNED BY: JMS 12/07
 DRAWN BY: HAS 12/07
 CHECKED BY: MTD 01/08
 APPROVED BY: RDP 01/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
 FAS RTE 899 (OLD IL 13)
 SECTION 8BR-2
 SALINE COUNTY



ESCA
CONSULTANTS, INC.

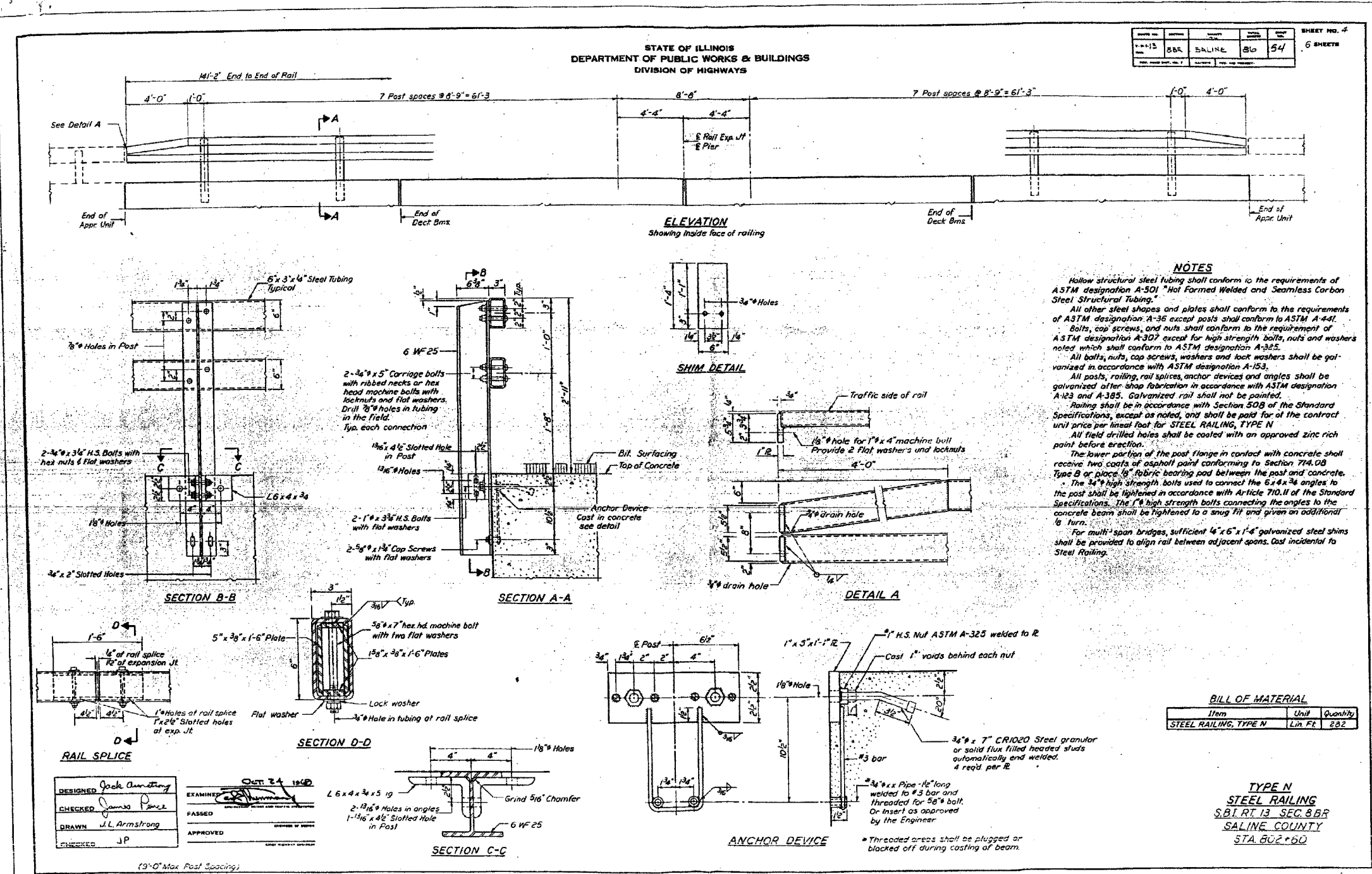
DESIGNED BY:	JMS	12/07
DRAWN BY:	HAS	12/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	01/08

EXISTING STRUCTURE PLANS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY

FOR INFORMATION ONLY



CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	BBR-2	SALINE	75	57
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	12/07
DRAWN BY:	HAS	12/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	01/08

EXISTING STRUCTURE PLANS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY

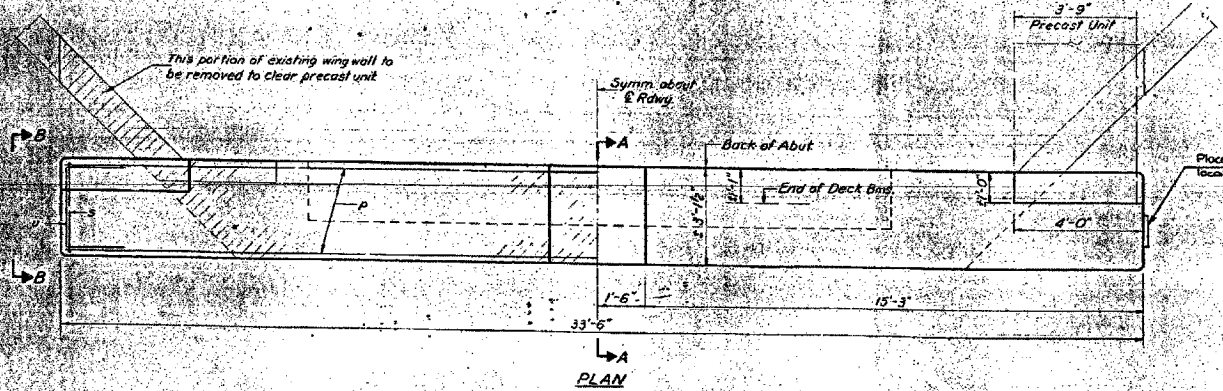
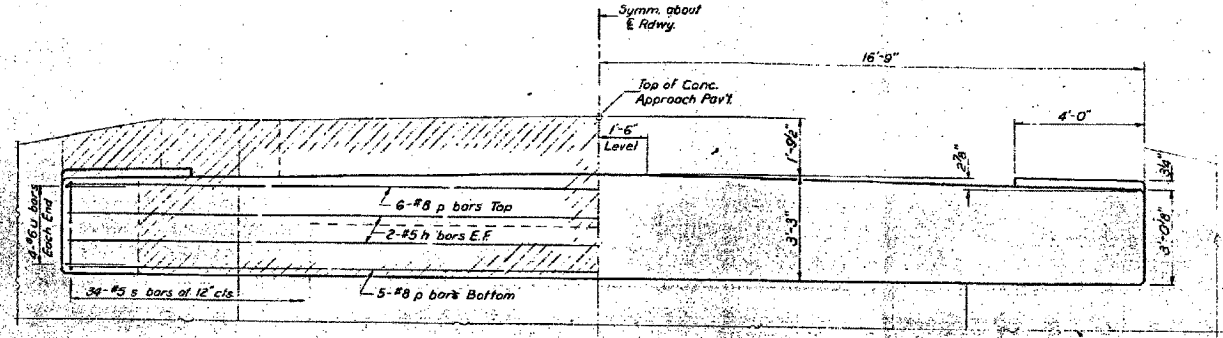
FOR INFORMATION ONLY



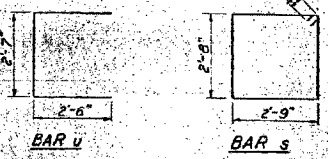
CONTRACT NO. 78028				
FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-2	SALINE	75	58
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO. 5				
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-143	8BR	SALINE	80	55
6 SHEETS				



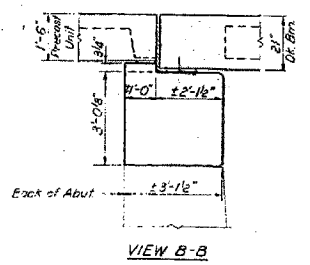
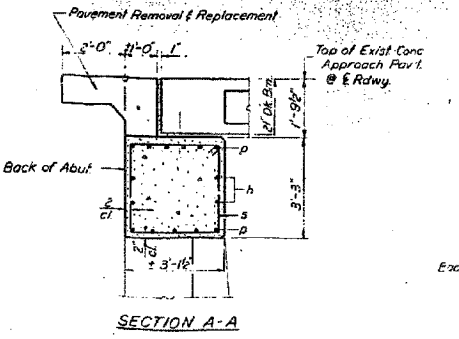
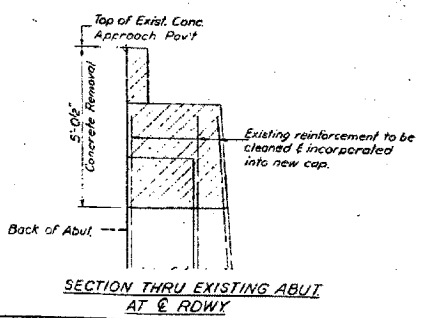
NOTES:
Hatched Areas indicate Concrete Removal.
All edges shall have standard 3/8" chamfers except as noted.



**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	8	#5	33'-9"	—
p	22	#8	33'-9"	—
s	68	#5	11'-7"	□
u	16	#6	7'-7"	□
Class X Concrete		Cu Yds.		24.5
Reinforcement Bars		Lbs.		3230
Concrete Removal		Cu Yds.		18

DESIGNED	Jack Armstrong	EXAMINED	Oct 24 1968
CHECKED	James Price	APPROVED	
DRAWN	J.L. Armstrong		
CHECKED	JP		



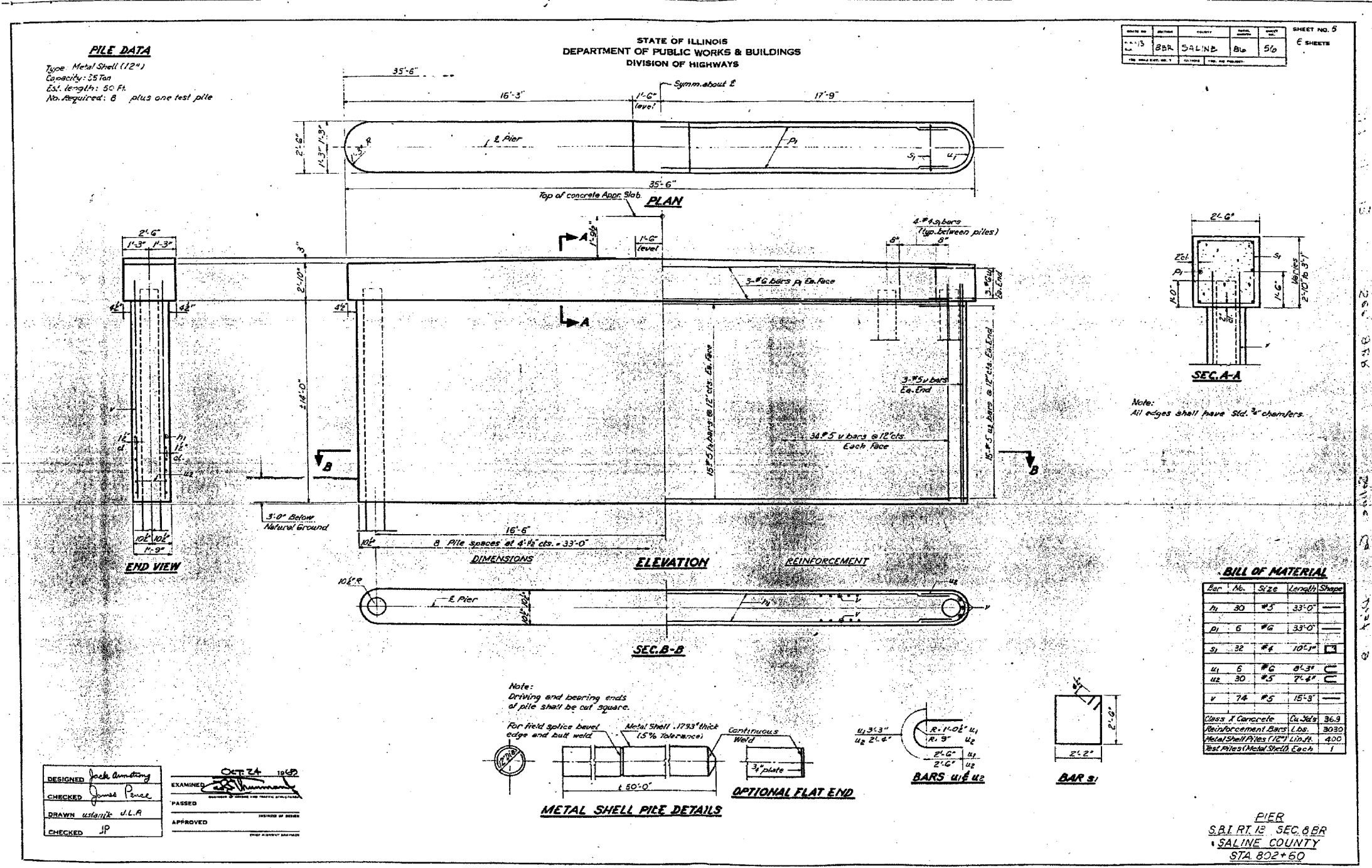
**ABUTMENTS
S. & L. RT 13 SEC. 8BR
SALINE COUNTY
STA. 802+60**

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	12/07
DRAWN BY:	HAS	12/07
CHECKED BY:	MTD	01/08
APPROVED BY:	RDP	01/08

EXISTING STRUCTURE PLANS
FAS RTE 899 (OLD IL 13)
SECTION 8BR-2
SALINE COUNTY

FOR INFORMATION ONLY

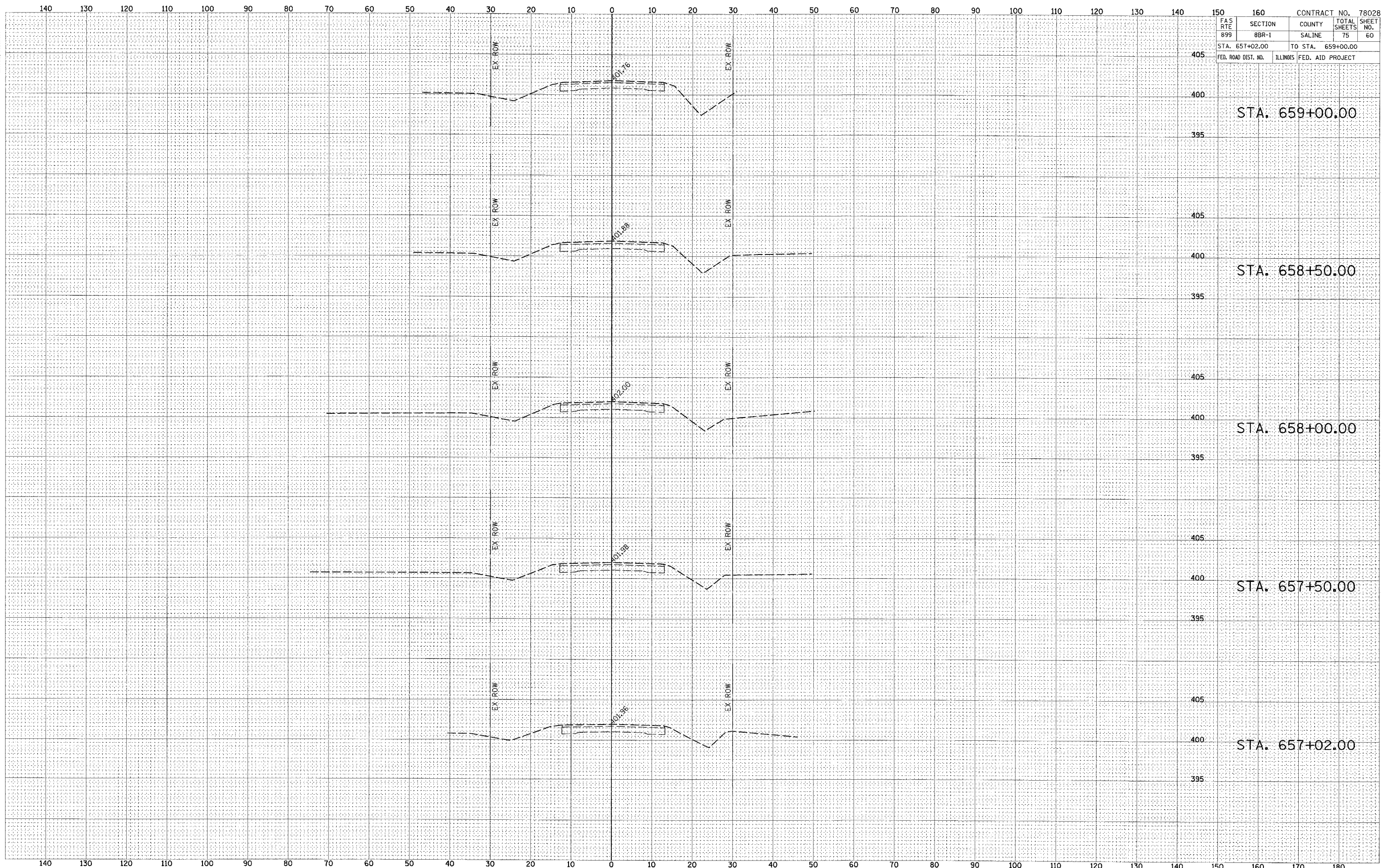




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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

FAS RTE 899	SECTION 8BR-1	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 60
STA. 657+02.00	TO STA. 659+00.00		CONTRACT NO. 78028	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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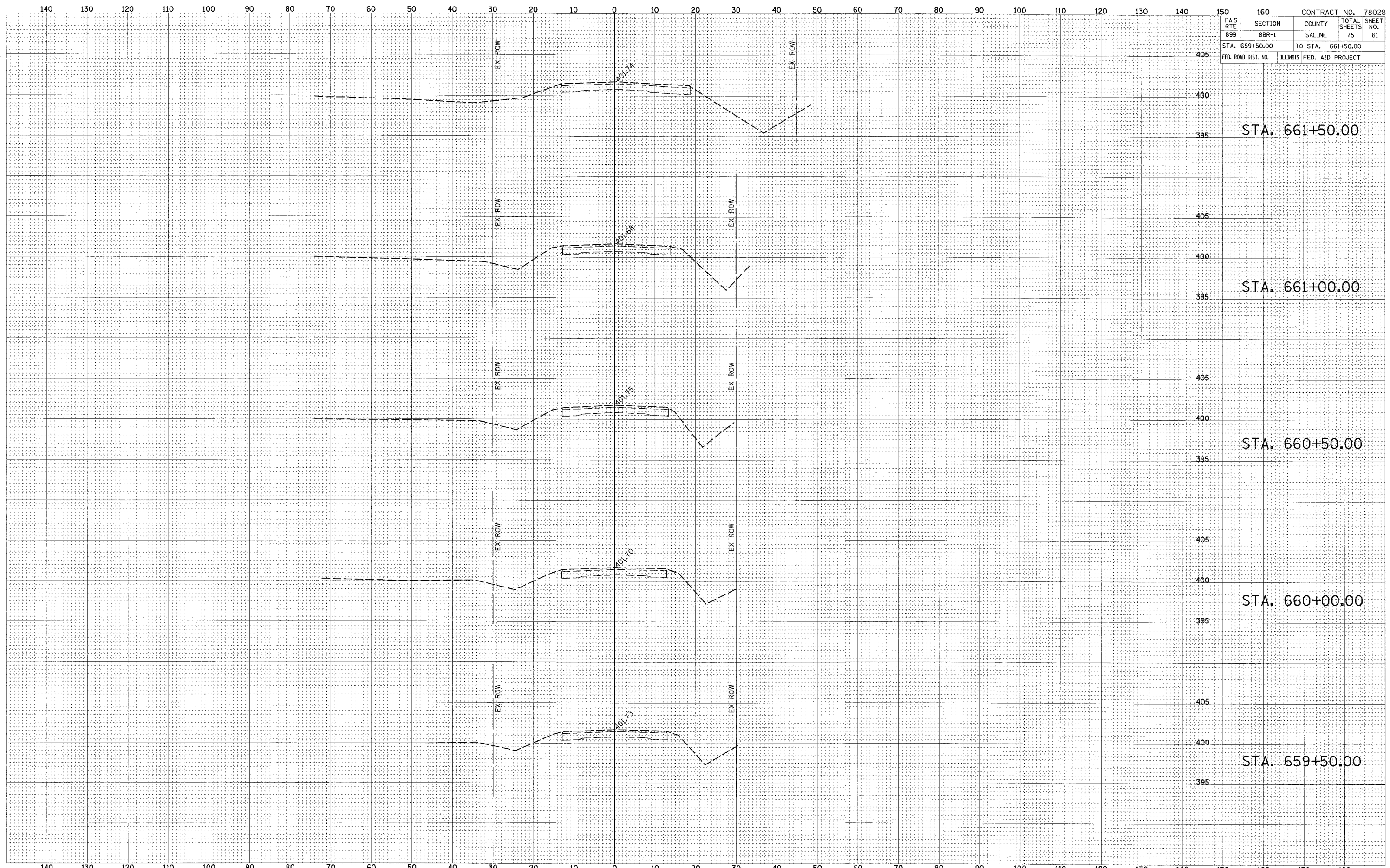


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NOTE BOOK	PLOTTED	BY
NO.	AREAS CHECKED	

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NOTE BOOK	PLOTTED	BY
NO.	AREAS CHECKED	

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	88R-1	SALINE	75	61
STA. 659+50.00	TO STA. 661+50.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 78028



STA. 661+50.00

STA. 661+00.00

STA. 660+50.00

STA. 660+00.00

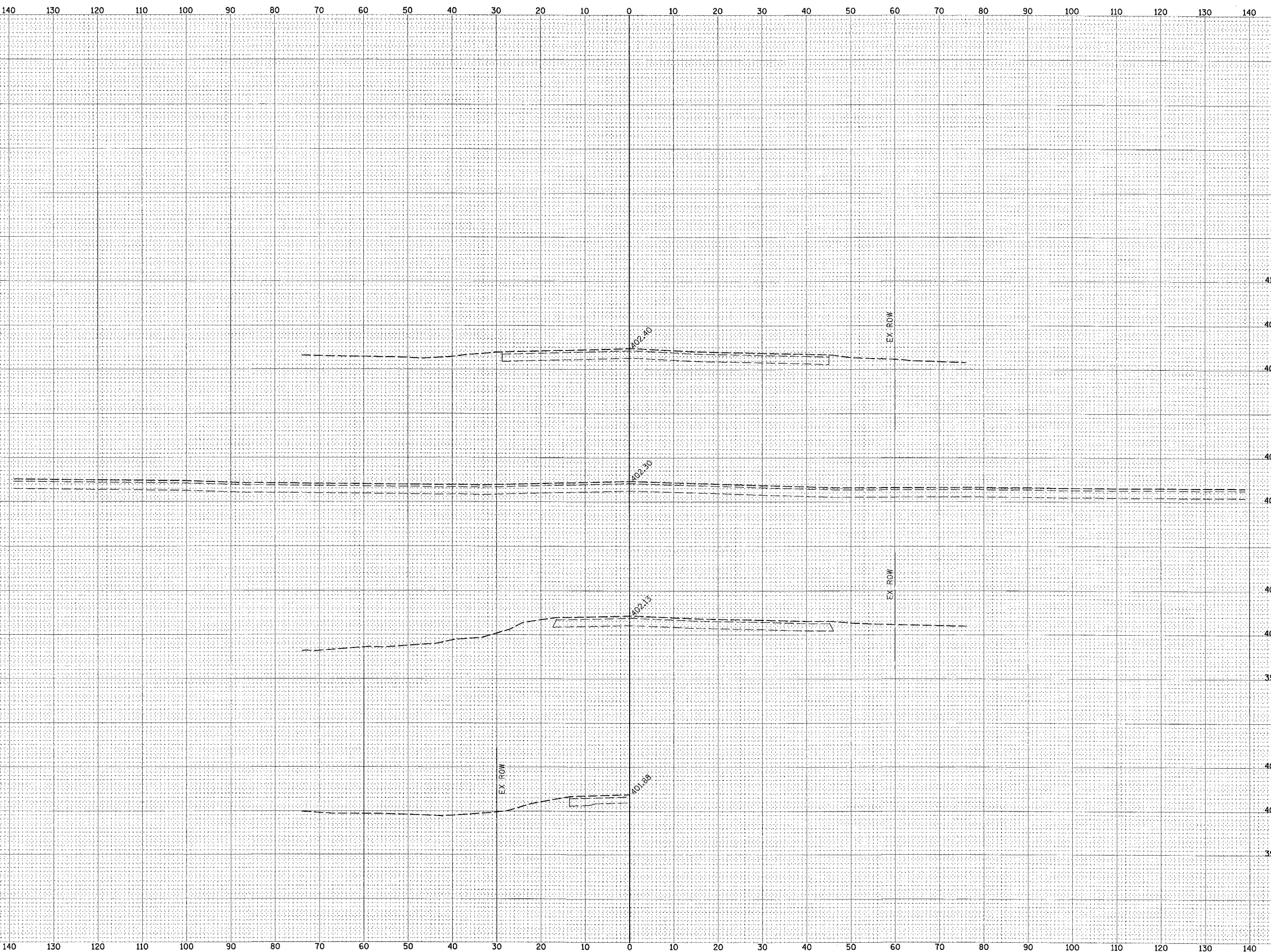
STA. 659+50.00



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FAS RTE 899	SECTION SALINE	COUNTY COUNTY	TOTAL SHEETS 75	SHEET NO. 62
STA. 661+68.00	TO STA. 662+50.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA. 662+50.00

STA. 662+29.76
SIDEROAD T.R. 42

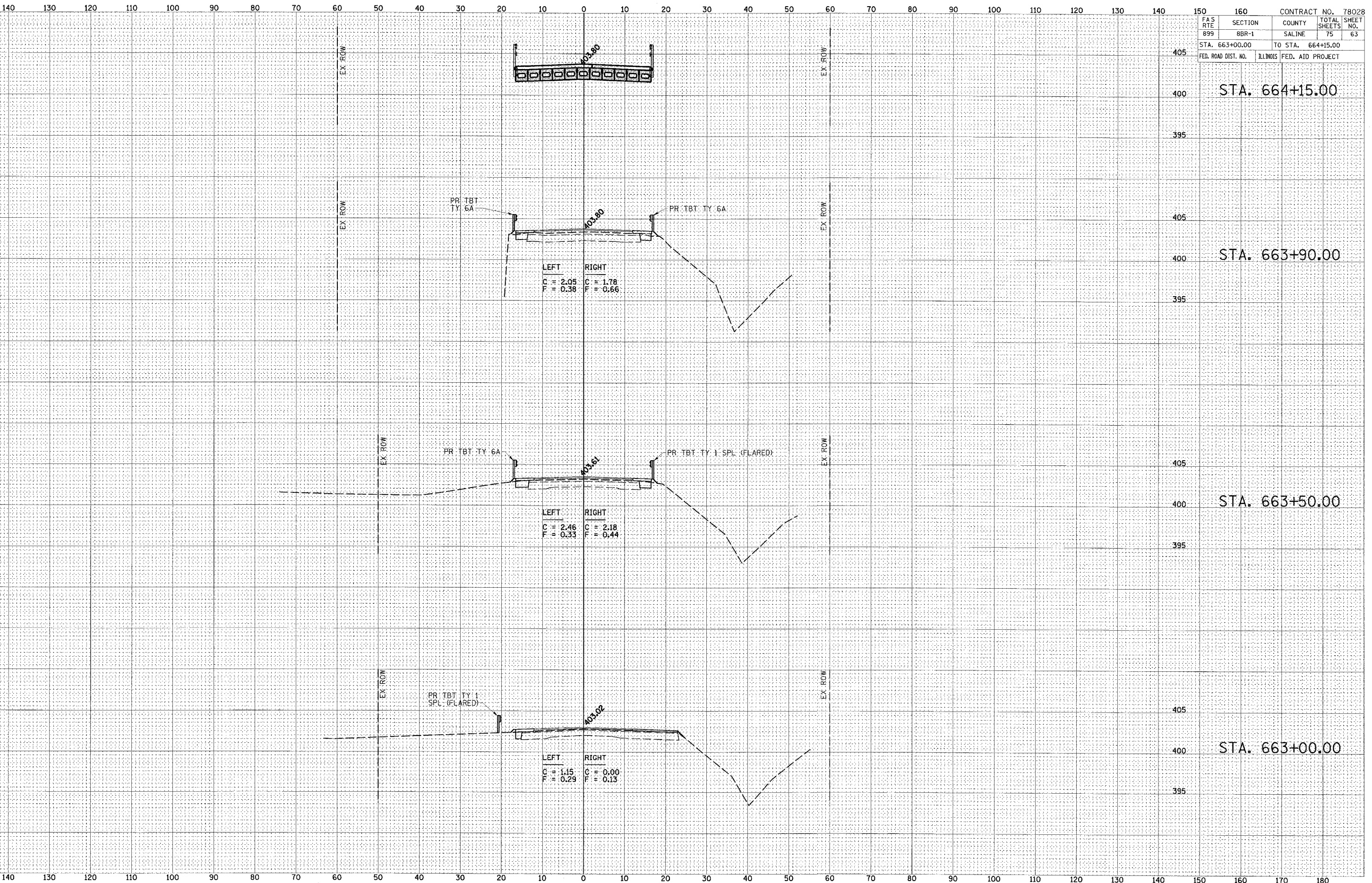
STA. 662+00.00

STA. 661+68.00
F.E. LT



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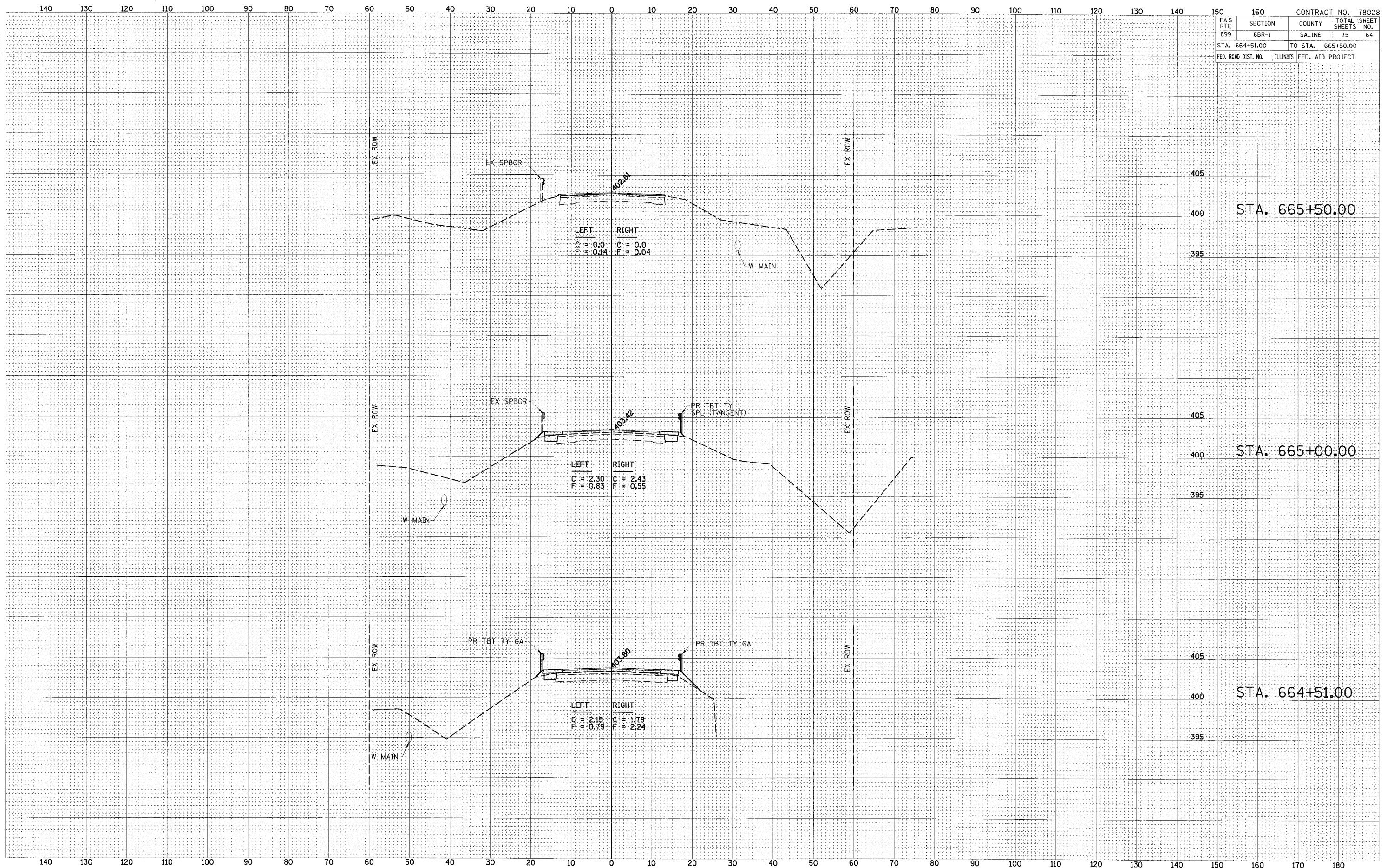
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899	BBR-1	SALINE	75	63
STA. 663+00.00		TO STA. 664+15.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8BR-1	SALINE	75	64
STA. 664+51.00		TO STA. 665+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

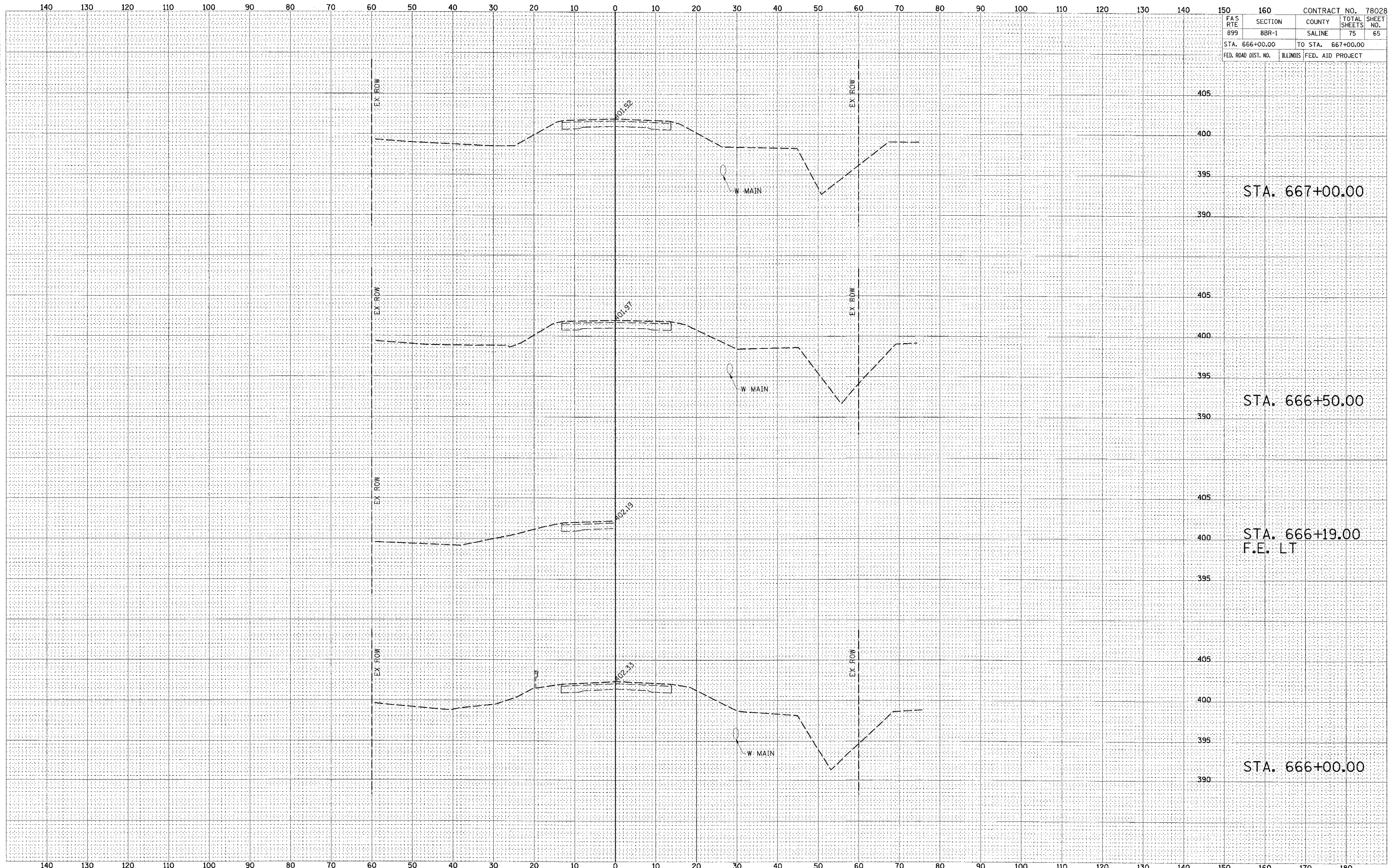




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FAS RTE 899	SECTION BBR-1	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 65
STA. 666+00.00		TO STA. 667+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

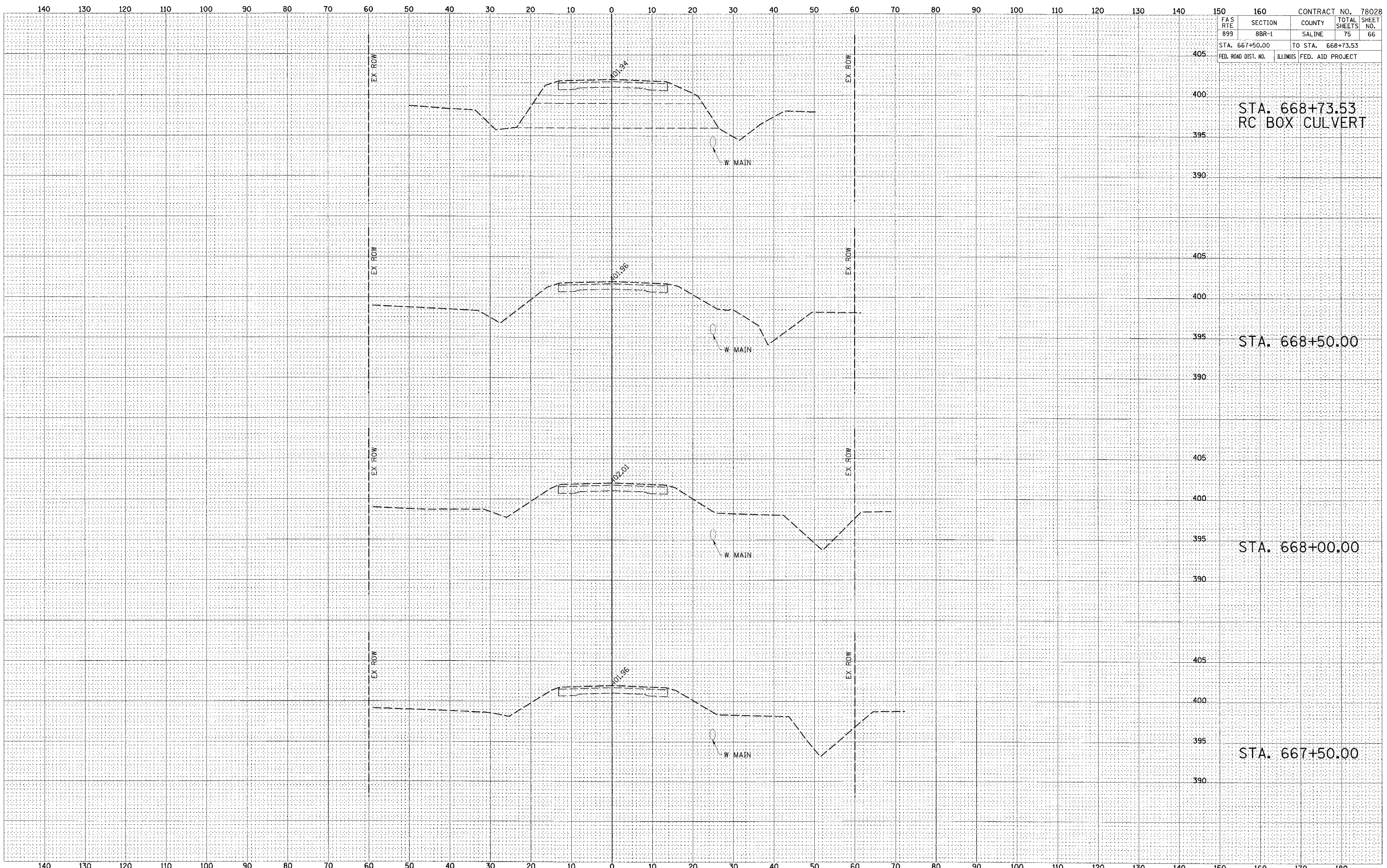




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NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		

FAS RTE 899	SECTION 88R-1	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 66
STA. 667+50.00		TO STA. 668+73.53		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

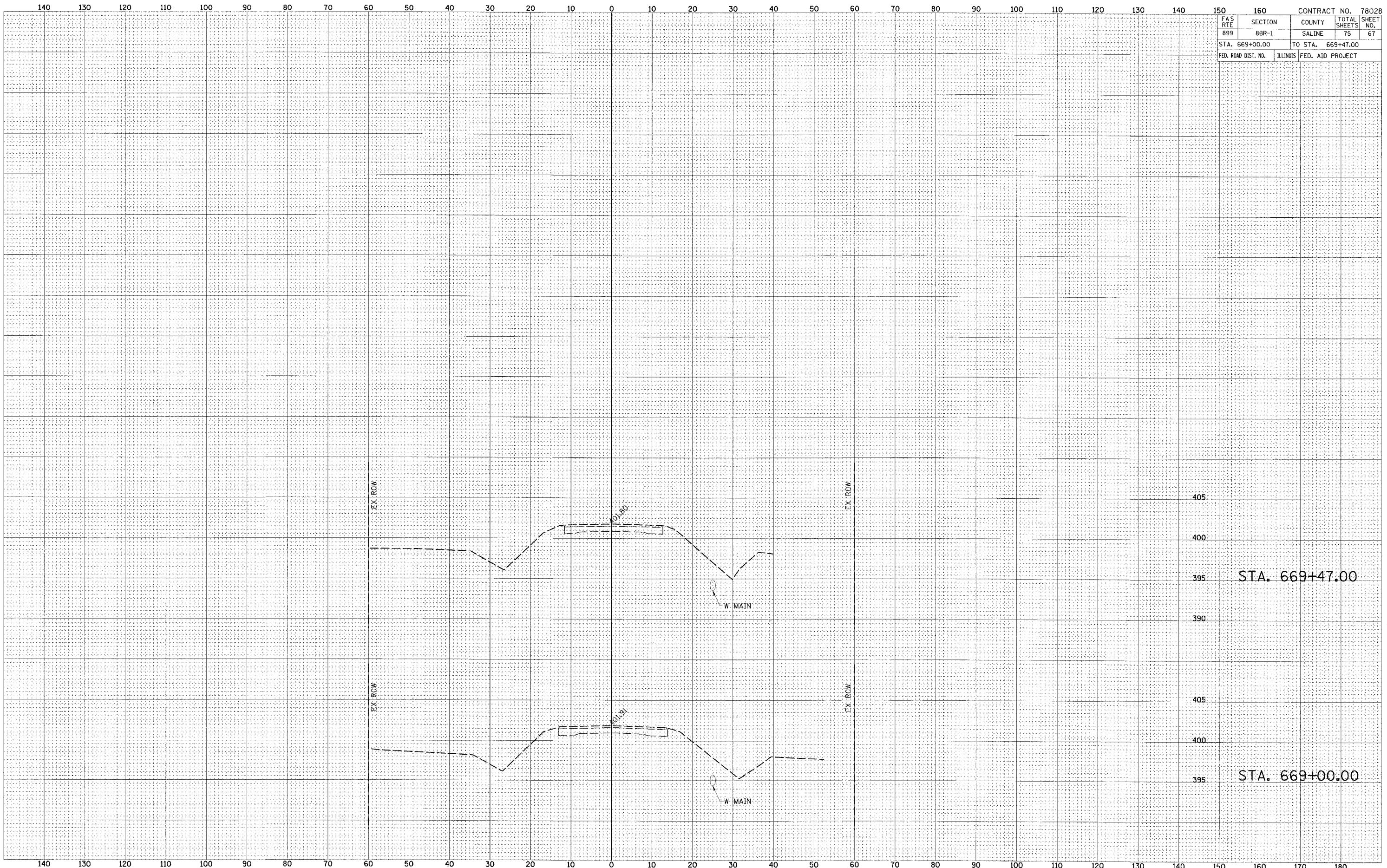




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AREA CHECKED	

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	88R-1	SALINE	75	67
STA. 669+00.00		TO STA. 669+47.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

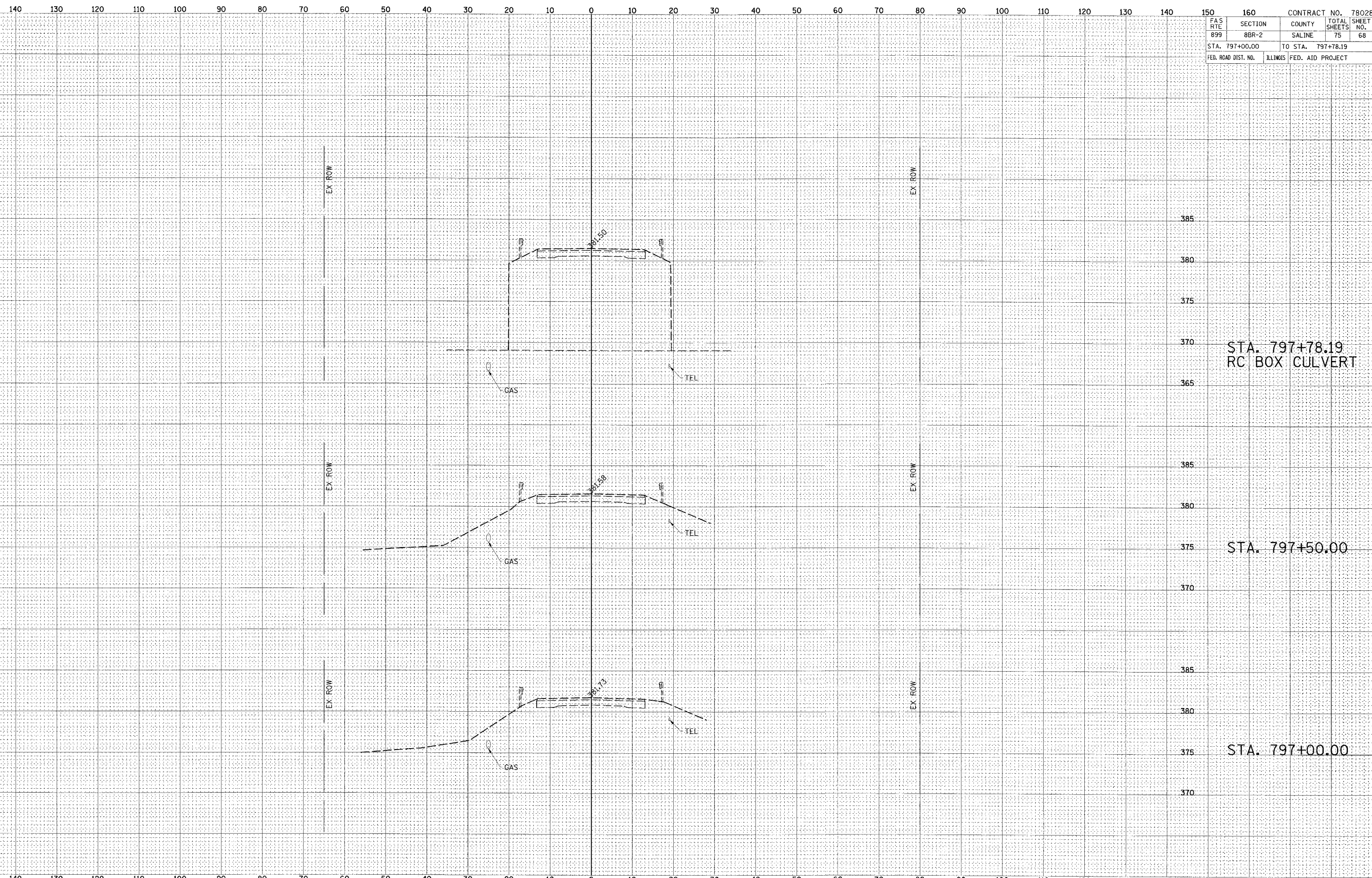




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ORIGINAL SURVEY	DATE
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AREAS CHECKED	

FAS RTE 899	SECTION 8BR-2	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 68
STA. 797+00.00		TO STA. 797+78.19		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA. 797+78.19
RC BOX CULVERT

STA. 797+50.00

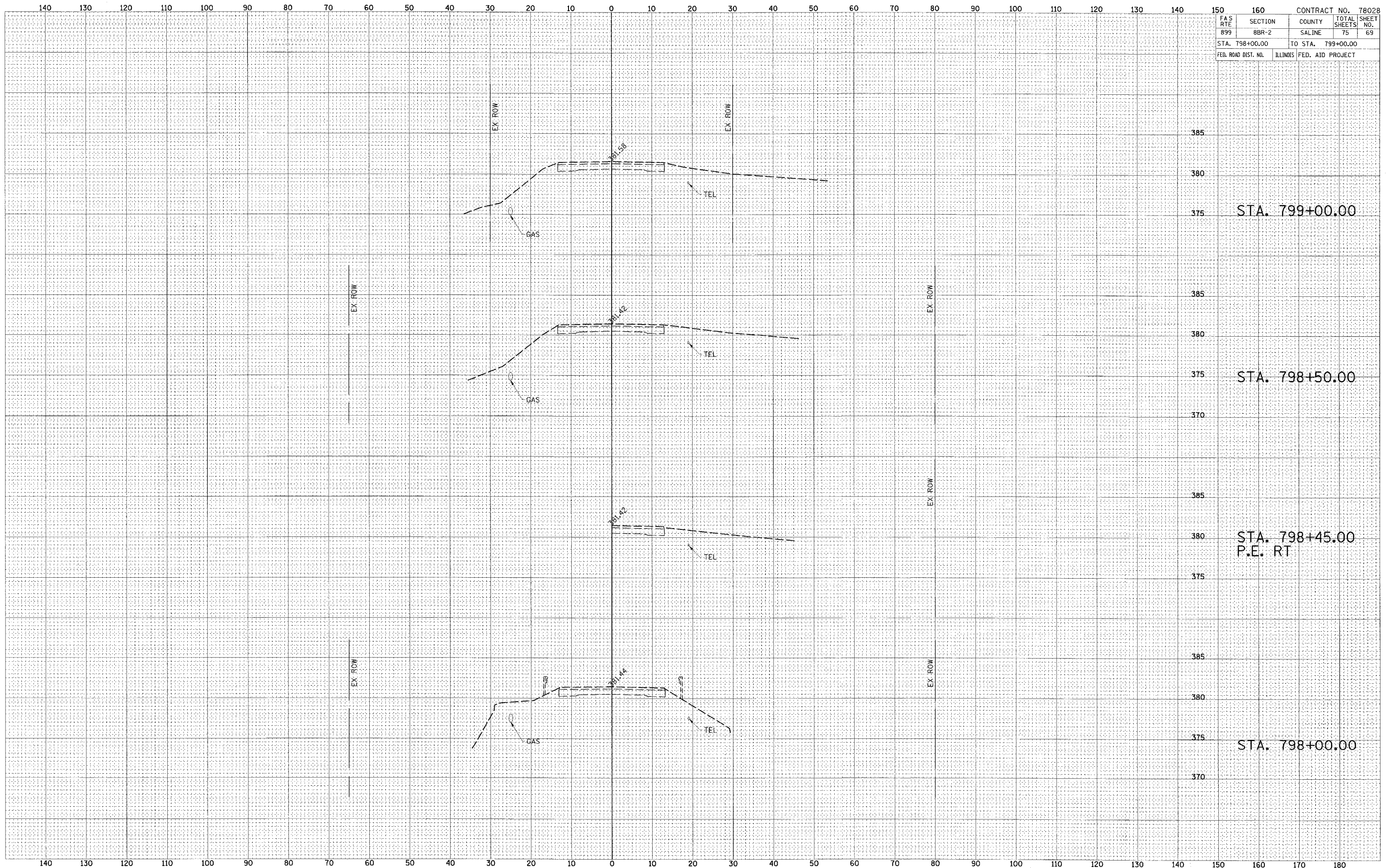
STA. 797+00.00



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NOTE BOOK	TEMPLATE	
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ORIGINAL	SUBMITTED	DATE
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NOTE BOOK	TEMPLATE	
	AREAS CHECKED	

FAS RTE 899	SECTION BBR-2	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 69
STA. 798+00.00		TO STA. 799+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

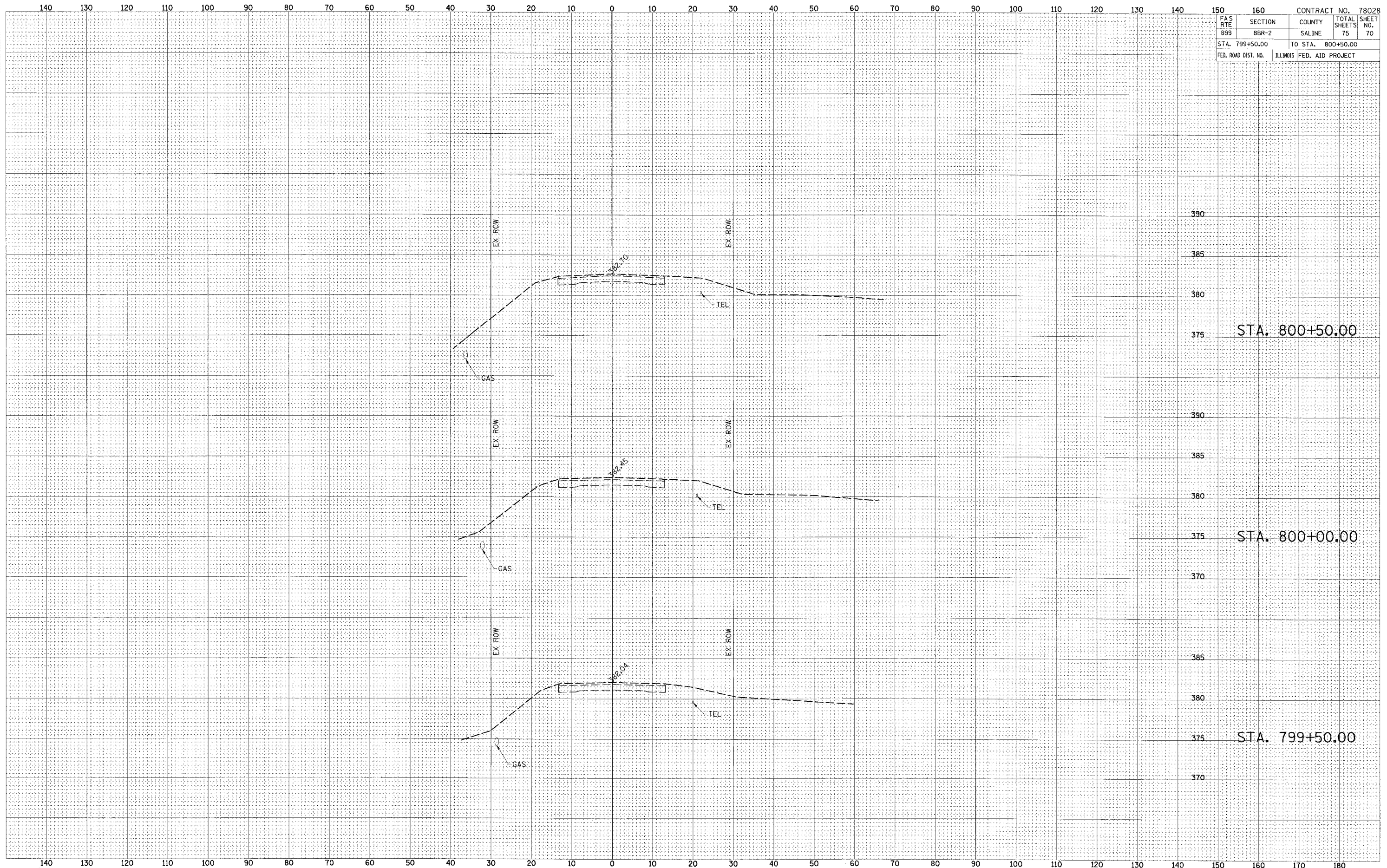




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NOTE BOOK	PLOTTED	BY
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FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	BBR-2	SALINE	75	70
STA. 799+50.00		TO STA. 800+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





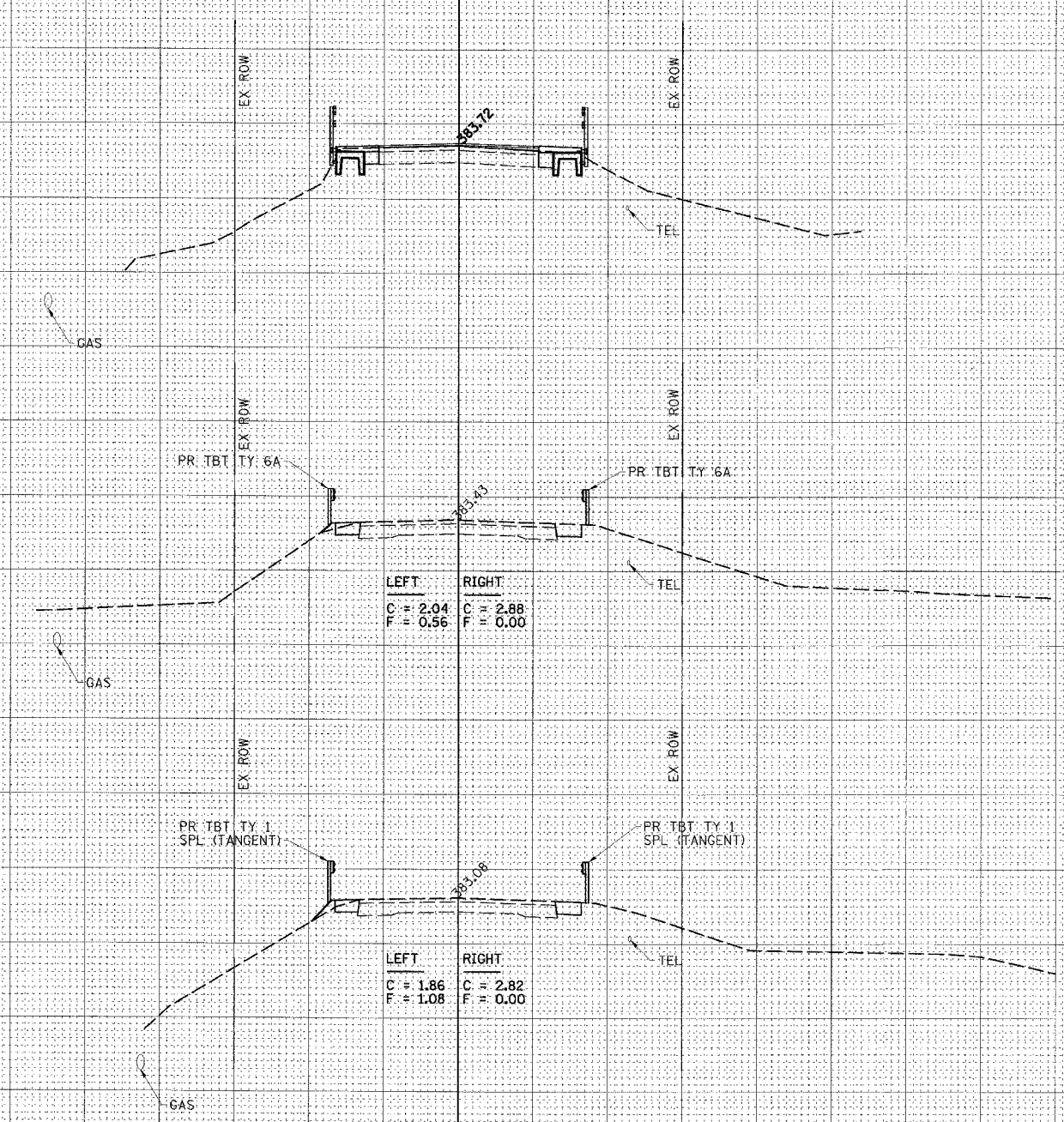
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FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	BBR-2	SALINE	75	71
STA. 801+00.00		TO STA. 802+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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LEFT	RIGHT
C = 2.04	C = 2.88
F = 0.56	F = 0.00

LEFT	RIGHT
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F = 1.08	F = 0.00

STA. 802+00.00

STA. 801+50.00

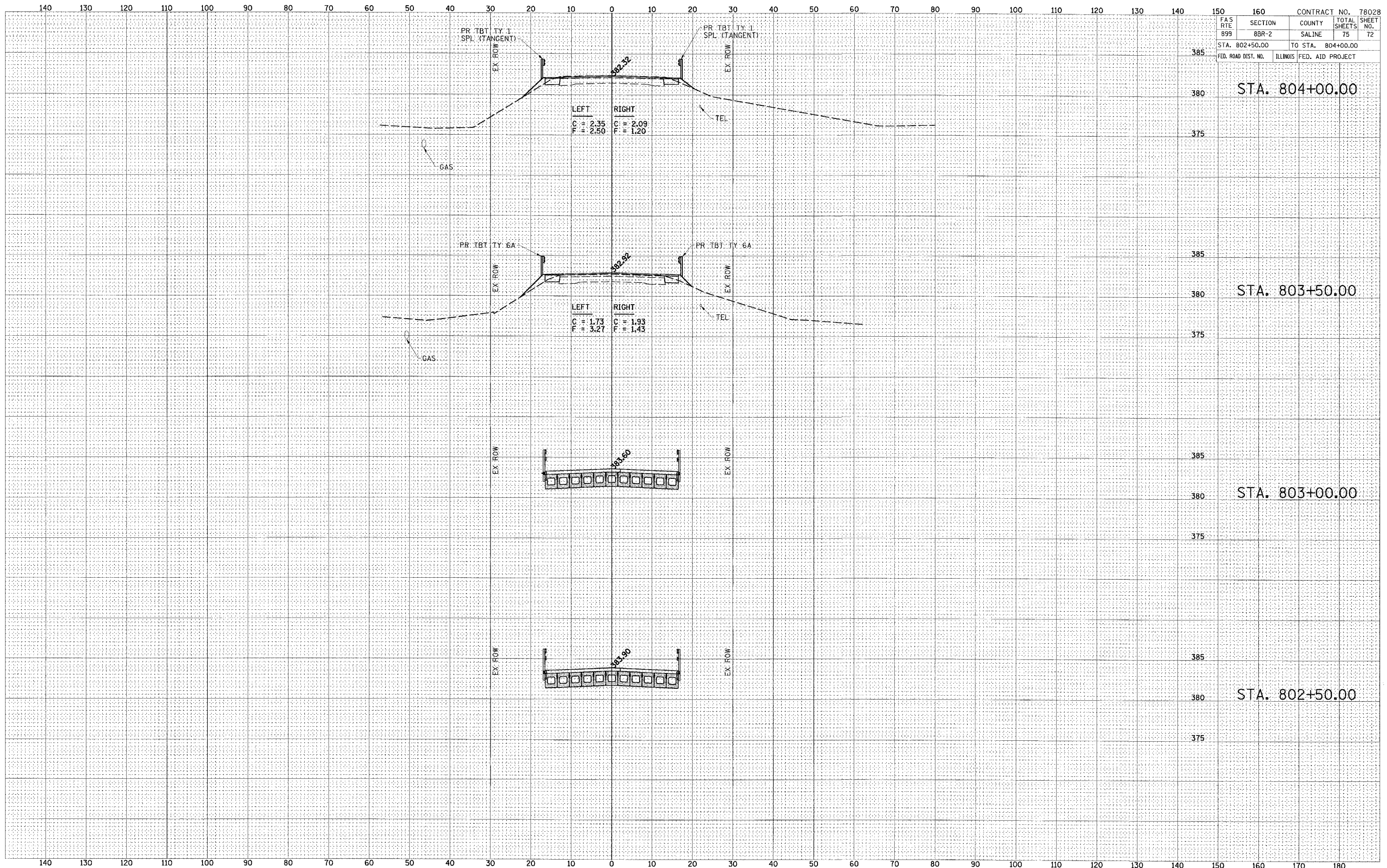
STA. 801+00.00



FINAL SURVEY NO.	DATE
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ORIGINAL SURVEY NO.	DATE
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APPROVED	
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FAS RTE 899		CONTRACT NO. 78028	
SECTION 88R-2	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 72
STA. 802+50.00	TO STA. 804+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

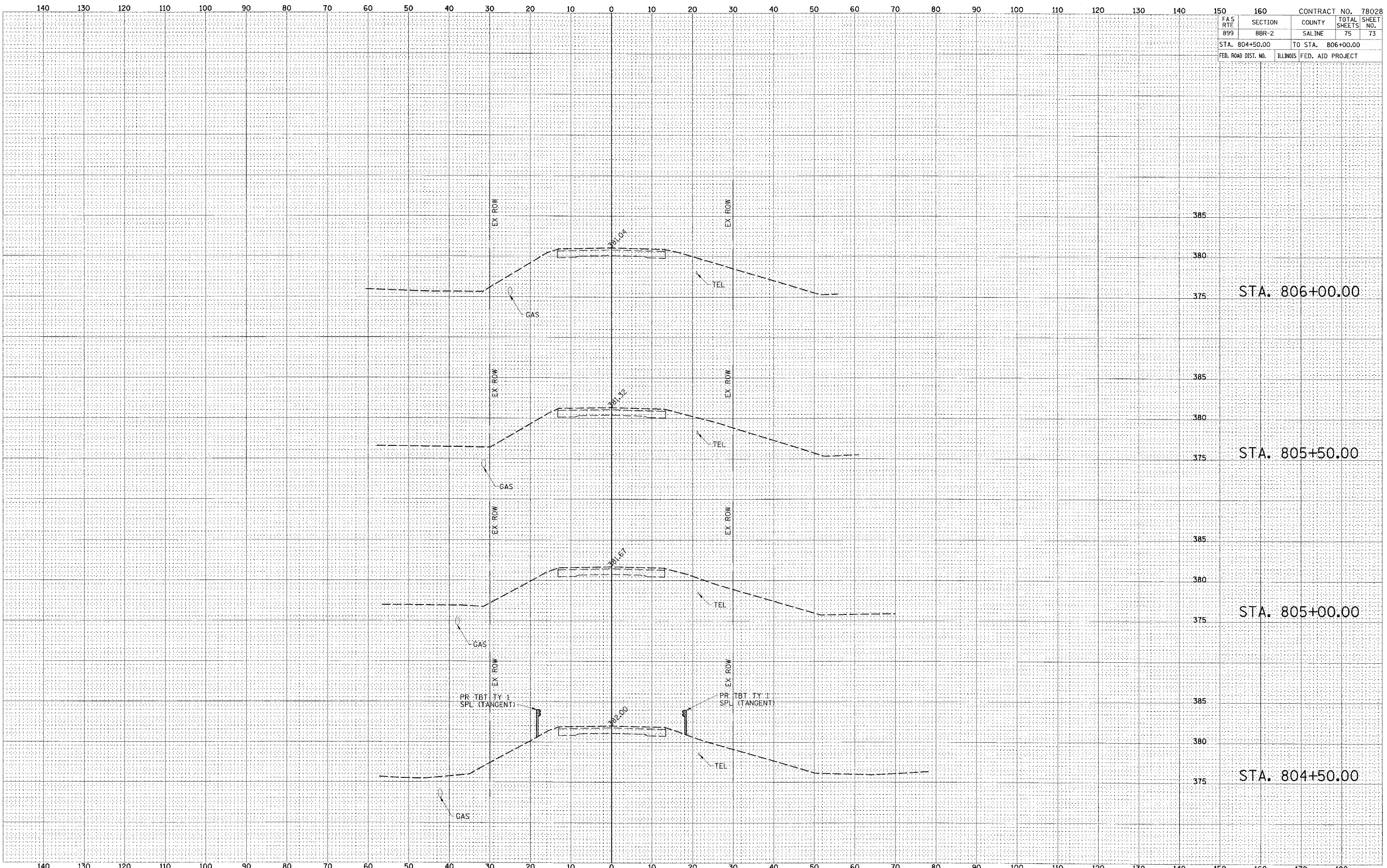




FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	BBR-2	SALINE	75	73
STA. 804+50.00		TO STA. 806+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINISH	DATE
SURVEY	BY
NOTE BOOK	
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ORIGINAL	DATE
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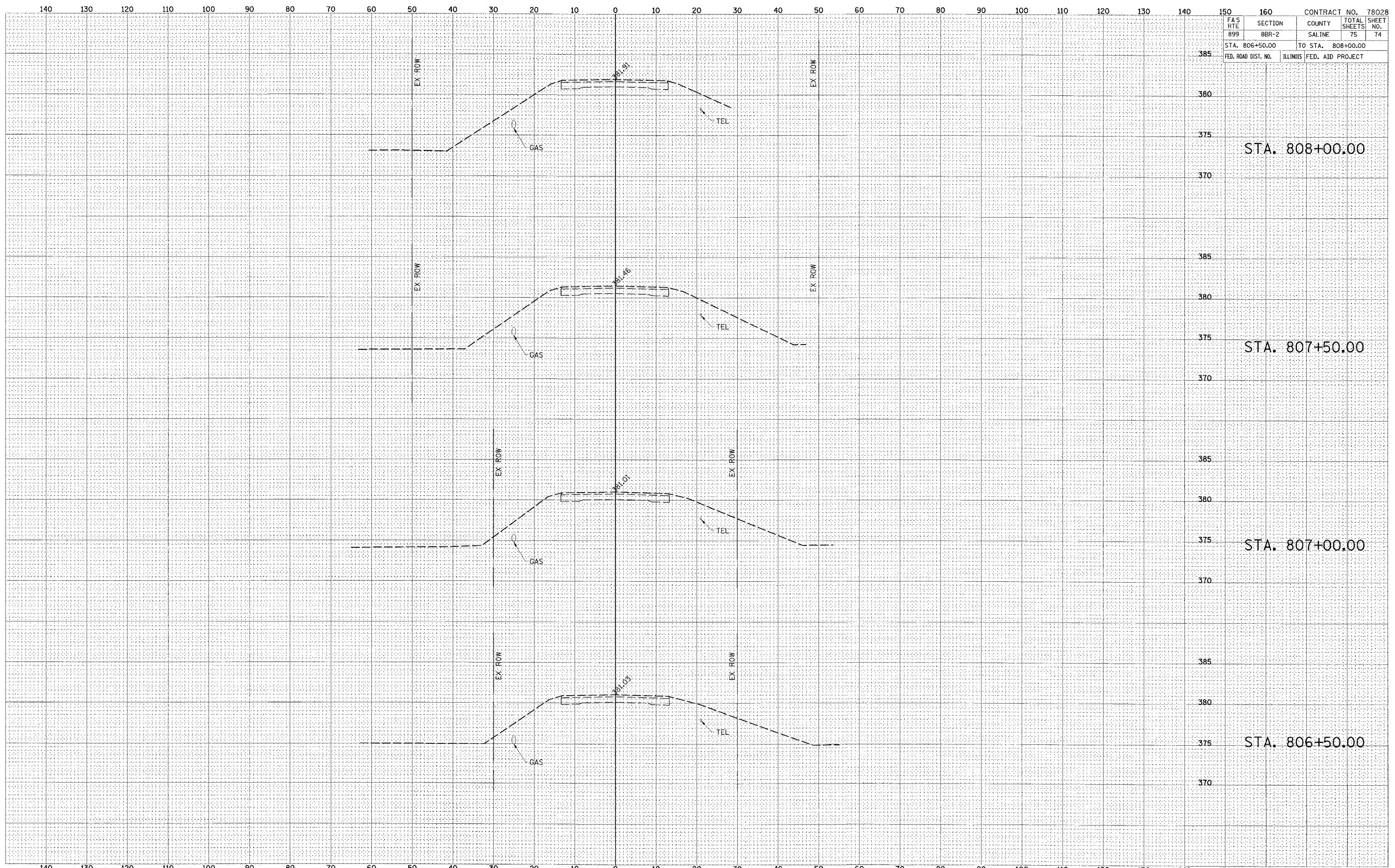


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ORIGINAL SURVEY	DATE
NO. 1	BY
NO. 2	BY
NO. 3	BY
NO. 4	BY
NO. 5	BY
NO. 6	BY
NO. 7	BY
NO. 8	BY
NO. 9	BY
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FAS RTE 899	SECTION BBR-2	COUNTY SALINE	TOTAL SHEETS 75	SHEET NO. 74
STA. 806+50.00		TO STA. 808+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 78028





FINAL	SUPERSEDED	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SUPERSEDED	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

FAS RTE 899	SECTION 8BR-2	COUNTY SALINE	CONTRACT NO. 78028
STA. 808+50.00	TO STA. 808+50.00	ILLINOIS	TOTAL SHEETS 75
FED. ROAD DIST. NO.	FED. AID PROJECT		

