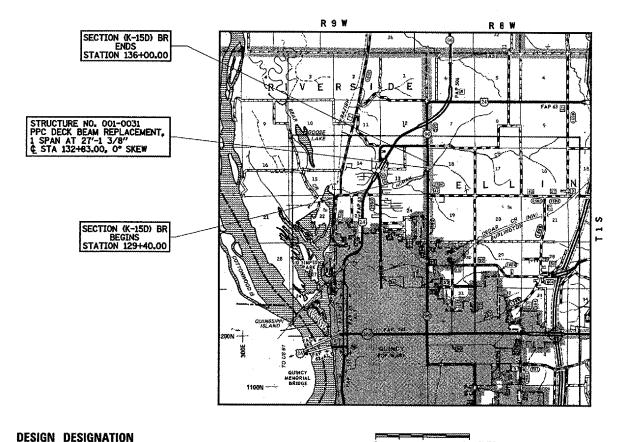
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED BRIDGE DECK REPLACEMENT PLANS

FAU ROUTE 7825 (IL 96) OVER HOMAN CREEK SECTION (K-15D)BR PROJECT: BHM -7825(004) **ADAMS COUNTY** C-96-537-07



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.

INDEX OF SHEETS

SUMMARY OF QUANTITIES SCHEDULE OF QUANTITIES TYPICAL SECTIONS

ALIGNMENT AND TIES

GENERAL NOTES, STANDARDS, AND LEGEND

MAINTENANCE OF TRAFFIC PLAN - STAGE 1 MAINTENANCE OF TRAFFIC PLAN - STAGE 2

* 13A . TEMPORARY BRIDGE TRAFFIC SIGNAL

LOOP REPLACEMENT DETAIL

COVER SHEET

16-25 STRUCTURE PLANS 26-27 SPECIAL DETAILS

28-31 CROSS-SECTIONS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 72A36

FAU 7825

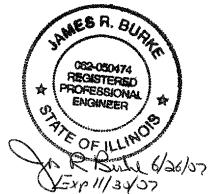
COLLECTOR ADT = 5800 (2027)

% SU == 8 % MU = 4

TOTAL LENGTH OF PROJECT **NET LENGTH OF PROJECT**

= 660.00 FEET = 660.00 FEET

= 0.125 MILES = 0.125 MILES



LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION

(K-15D)BR

D-96-516-06

COUNTY

32

Hutchison Engineering, Inc. JACKSONVILLE SINCE 1945

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

- **GENERAL NOTES**
- 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 WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED

ALL ELEVATIONS REFER TO NAVD88 DATUM.

- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF 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 EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL DISTURBED UNSURFACED AREAS WITHIN THE ROW AND EASEMENTS SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
- FERTILIZER NUTRIENTS SHALL BE APPLIED TO BOTH THE SEEDED AREAS AND THE AREAS COVERED WITH EROSION CONTROL BLANKET.
- DO NOT INCLUDE MULCH OR EMULSIFIED ASPHALT ON EROSION CONTROL BLANKET AREAS.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- ALL TREES, BRUSH AND SHRUBS WITHIN THE CONSTRUCTION LIMITS WILL BE REMOVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TREES ALONG THE EDGE OF RIGHT OF WAY, OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAVED IF, IN THE OPINION OF THE ENGINEER, THEY DO NOT INTERFERE WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS
- IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER 1-800-892-0123

KNOWN UTILITIES LOCATION WITHIN THE LIMITS OF THIS IMPROVEMENT ARE:

ADAMS ELECTRIC COOPERATIVE ADAMS TELEPHONE COOPERATIVE SIGNAMS TELEPTONE COOPERATIVE
SIGNAMERO CIPS
CLAYTON CAMP POINT WATER COOPERATIVE
MILL CREEK WATER DISTRICT
MCLEOD USA
CITY OF QUINCY
ENBRINGE TAKE ENBRIDGE INC

11. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUCT BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE, BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

12. AN ASPHALT PRIME SHALL BE REQUIRED FOR THE PRIMING OF THE MAINLINE PAVEMENT TO BE RESURFACED. THE AREA PRIMED SHALL BE LIMITED TO THAT WHICH WILL BE COVERED WITH BITUMINOUS CONCRETE THAT SAME DAY.

- 13. EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO RESURFACING.
- 14. THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

 AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL) 2.05 TON/CUBIC YARD
 STONE DUMPED RIPRAP 1.75 TON/CUBIC YARD
 BITUMINOUS MATERIALS (PRIME COAT) 0.00038 TON/SQUARE YARD (ON PAVEMENT)
 BITUMINOUS MATERIALS (PRIME COAT) 0.001425 TON/SQUARE YARD (ON AGGREGATE)
 AGGREGATE (PRIME COAT) 0.002 TON/SQUARE YARD
 HMA SURFACE/BINDER (112 LBS) 0.056 TON/SQUARE YARD-INCH
- 15. THE REMOVAL AND REPLACEMENT OF MAILBOXES NECESSARY FOR CONSTRUCTION OF THE HMA SHOULDERS AND MAILBOX TURNOUTS AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE COST OF THE HMA SHOULDERS.
- 16. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

	·	T-10-12-13-13-13-13-13-13-13-13-13-13-13-13-13-				
MIXTURE USE(S)	HMA BASE	FLEXIBLE CONNECTOR	FLEXIBLE CONNECTOR	INCIDENTAL	HMA SURFACE	
	CSE / WIDENING	BINDER	SURFACE	HMA SURFACE	COURSE	HMA SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22
DESIGN AIR VOIDS	4.0% • N DESIGN=50	4.0% @ N DESIGN=50	4.0% Q N DESIGN=50	4.0% P N DESIGN=50	4.0% Q N DESIGN=50	2.0% P N DESIGN=30
MIX COMPOSITION:			1	1000 4 N DESIGN-30	110% & 14 DE31014-30	Z.OZ W N DESIGN-SU
(GRADATION MIXTURE)	IL-19.0	IL-19.0	IL-9.5 OR 12.5	IL-9.5 OR 12.5	IL-9.5 OR 12.5	BAM
FRICTION AGGREGATE	N/A	N/A	MIX "C"	MIX "C"	MIX "C"	N/A

STANDARDS

CONTRACT NO. 72A36

COUNTY

7825 (K-150)BR ADAMS 31 2

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

SECTION

000001-04 280001-03 420401-05 515001-02 630001-07 630301-04 631032-03 635006-02 635011-01 701001-01 701006-02 701011-01 701201-02 701301-02 701306-01 701311-02 701321-08 701326-02 702001-06 704001-03 780001-01 781001-02 886001 886006

LEGEND

PAVEMENT REMOVAL

HMA SURFACE REMOVAL-BUTT JOINT

TBR

TO BE REMOVED

S-1

TRAFFIC CONTROL STAGE NUMBER

COMMITMENTS

THE FIELD/RESIDENT ENGINEER SHALL CONTACT DISTRICT 6 STUDIES & PLANS AT 217-782-6990 CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN. AND TO ALLOW IMPROVEMENTS IN THE DESIGN FOR FUTURE PROJECTS.

1/2" HMA SURFACE CSE 11/2" MIN SAWCUT PROPOSED RESURFACING GRADE LINE EXISTING GRADE LINE MAXIMUM PROPOSED HOT MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "C", N50 PROPOSED 11/2" TO 0"
HMA SURFACE REMOVAL - BUTT JOINT EXISTING PAVEMENT W/ OVERLAY

BUTT JOINT DETAIL (SEE PLANS FOR LOCATIONS)

EXAMINED 12 20 07 PROGRAM IMPLEMENTATION ENGINEER EXAMINED 20 O PROGRAM DEVELOPMEN ENGINEER

DISTRICT SIX EXAMINED 20 07 OPERATIONS ENGINEER

Rev

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND LEGEND

DRAWN BY JCW DATE 05/31/07 CHECKED BY JRB

| CONTRACT NO. 72A36 | F.A.P. | SECTION | COUNTY | SHEETS | SNO. | TOTAL | SHEET | SNO. | TOTAL | SNO. |

SUMMARY OF QUANTITIES

801. FED. 201. STATE

			TOTAL	CONSTRUC	TION CODE
CODE NO.	ITEM	UNIT	QUANTITY	1000	X080 -2A
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	209		209
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	133		133
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1		1
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	12	12	
21400110	GRADING AND SHAPING DITCHES	UNIT	1	1	
28100806	STONE DUMPED RIPRAP, CLASS A3 (SPECIAL)	TON	218	218	

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHANABY OF CHANTITIES
	SUMMARY OF QUANTITIES
	DRAWN BY JCW

CONTRACT NO. 72A3

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F.A.P.	SECTION		Ç	QUNT:	Y	TOTAL	SHEET NO.
7825	(K-15D)BI	3		ADAM	S	31	4
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SUMMARY OF QUANTITIES

80.1.FED. /201.STATE

			TOTAL	CONSTRUC	TION CODE
CODE NO.	ITEM	UNIT	QUANTITY	1000	X080-2A
35101400	AGGREGATE BASE COURSE, TYPE B	TON	47	47	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	427	427	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1	
40600300	AGGREGATE (PRIME COAT)	TON	4	4	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	414	414	
40600990	TEMPORARY RAMP	SQ YD	58	58	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	145	145	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACE	TON	8	8	
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	113	113	

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2447-700

CONTRACT NO. 72A36	F.A.P.	SECTION	COUNTY	SHEETS	SNO.
7825	(K-15D)BR	ADAMS	31	5	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT		

801.FEO./201. STATE SUMMARY OF QUANTITIES

			TOTAL	CONSTRUC	TION CODE
CODE NO.	ITEM	UNIT	QUANTITY	1000	X080 -2A
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	35	35	
44000100	PAVEMENT REMOVAL	SQ YD	150	150	
48101300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	26	26	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	36	36	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50300260	BRIDGE DECK GROOVING	SQ YD	93		93
50300300	PROTECTIVE COAT	SQ YD	135		135
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299		299
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	895		895
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1870		1870

	REVISIONS NAME DATE	
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CHECKED BY JRB

CONTRACT NO. 72A36

F.A.P.	SECTION	1	С	יזאטס	۲	TOTAL SHEETS	SHEET NO.
7825	(K-15D)	BR		ADAM	5	31	6
FED. RO	O DIST. NO.	ILLIN	OIS	FED.	AID	PROJECT	

		SUMMARY OF QUANTI	TIES	801. FED /201. ST	ATE	
				TOTAL		TION CODE
	CODE NO.	ITEM	UNIT	QUANTITY	1000	X080 -2A
	50800515	BAR SPLICERS	EACH	112		112
	50901050	STEEL RAILING, TYPE SM	FOOT	134		134
	51500100	NAME PLATES	EACH	1		1
*	63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	237.5	237.5	
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
	63200310	GUARDRAIL REMOVAL	FOOT	533	533	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MÖ	8	8	
	67100100	MOBILIZATION	L SUM	1	1	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	

* SPECIALITY ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION	REVISIONS			
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SUMMARY OF QUANTITIES	1			
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	1			
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DRAWN BY JCW	+	·····		
DATE: 05/31/07 CHECKED BY JR	1			

RTE. SECTION COUNTY
T825 (K-15D)BR ADAMS

801.FED. /201.STATE SUMMARY OF QUANTITIES TOTAL CONSTRUCTION CODE QUANTITY CODE NO. ITEM UNIT I000 X080-2A TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 70100460 L SUM 70100500 TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 L SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL) 70101205 EACH 70103815 TRAFFIC CONTROL SURVEILLANCE CAL DA 5 5 70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS EACH 70300100 SHORT-TERM PAVEMENT MARKING FOOT 66 66 TEMPORARY PAVEMENT MARKING - LINE 5" 4115 70300230 FOOT 4115 TEMPORARY PAVEMENT MARKING - LINE 24" FOOT 70300280 24 24 70301000 WORK ZONE PAVEMENT MARKING REMOVAL SQ FT 1785 1785 70400100 TEMPORARY CONCRETE BARRIER FOOT 320 320

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CONTRACT NO. 72/

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7825	K-15D)BR			ADAM	S	3	1	8
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_		SUMMARY OF QUA	NTITIES	801.FED. 201.STAT	E	
				TOTAL		TION CODE
Į	CODE NO.	ITEM	TINU	QUANTITY	1000	X080-2A
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	320	320	
*	78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1485	1485	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9	
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
ļ	78300100	PAVEMENT MARKING REMOVAL	SQ FT	619	619	
ŀ	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9	

* SPECIALITY ITEM

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DRAWN BY JCW

CHECKED BY JRB

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F.A.P. SECTION			COUNTY		TO SH	TAL	SHEET NO.	
7825 (K-15D)BF		R	ADAMS		IS		31	9
FED. ROAD DIST. NO.		ILLIN	015	FED.	AID	PRC	JECT	

STONE DUMPED RIPRAP, CLASS A3 (SPECIAL									
J. O. L. DO.	*** LD 1(1) 1(A		STONE RIPRAP,						
			CLASS A3						
STATION 1	TO STATION	SIDE	TON						
129+40.0	132+69.4	RT	151.7						
132+49.5	132+69.4	LT	11.0						
132+69.4	132+96.6	LT & RT	0.0						
132+96.6	136+00.0	LT	29.8						
132+96.6	133+16.0	RT	10.9						
133+16.0	133+50.0	RT	14.5						
	TOTAL		217.9						

AGGREGATE SHOULDE	RS, TYPE	B (SPECIAL)
		AGGREGATE
		SHOULDERS
		TYPE B (SP
STATION TO STATION	SIDE	TON
130+53.00 130+77.00	LT	0.5
130+77.00 132+49.50	LT	6.2
130+80.18 130+83.93	RT	0.1
130+83.93 132+49.50	RT	5.9
133+16.50 135+51.52	LT	8.4
135+51.52 135+72.52	LT	0.5
133+16.50 134+20.50	RT	3.7
134+20,50 134+24,25	RT	0.1
TOTAL		25.4
USE		26

EARTHWORK SCHEDULE								
STATION T	O STATION	EXCAVATION	EXCAVATION ADJUSTED FOR	EMBANKMENT	BALANCE WASTE OR SHORTAGE (-)			
			CU	YD.				
129+40.00	132+69.42	0	0	33.5	-33.5			
132+69.42	132+96.58	0	0	0	0			
132+96.58	136+00.00	0	0	5.4	-5.4			
TO.	TALS	0	0	38.9	-38.9			
	USE • -40							
EXCAVATED MATERIAL GENERATED FROM EXCAVATING AND GRADING EXISTING SHOULDER TO BE USED FOR EMBANKMENT								

	GUARDRAIL	REMOVAL	
STATION T	LENGTH FT		
131+21.8	134+19.3	LT	297.5
131+59.3	133+94.0	RT	234.7
	532.2		
	USE		533

| STATION TO STATION | SIDE | LENGTH |

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SCHEDULE								
, LENGTH	WIDTH	AREA]					
FT	FT	SQ YD	1					
50 6	26	17.4	1					
02 6	26	17.4	1					
TOTAL								
USE								
	N LENGTH FT 50 6 6 10TAL	N LENGTH WIDTH	N LENGTH WIDTH AREA FT FT SO YD 50 6 26 17.4 02 6 26 17.4 TOTAL 34.8					

GRADING AND SHAPING DITCHES							
		LENGTH					
STATION TO STATION	SIDE	FT	UNIT				
131+00.00 132+00.00	RT	100	1				
TOTAL		100	1				
		USE	1				

GUARDRAIL SCHEDULE										
STATION TO STATION	STEEL PLATE BEAM GUARDRAIL TYPE A		STEEL RAILING. TYPE SM	TRAFFIC BARRIER TERMINALS		TERMINAL MARKER - DIRECT				
STATION TO STATION			TIFE SW	TYPE 1. SPECIAL	TYPE 6A	APPLIED				
		F0	EACH							
130+99.5 132+49.5	RT	50.0		1	1	1				
130+87.0 132+49.5	LT	62.5		1	1	1				
132+49.5 133+16.5	LT		67.0							
132+49.5 133+16.5	RT		67.0							
133+16.5 134+16.5	RT			1	1	1				
133+16.5 135+41.5	LT	125.0		1	1	1				
TOTALS		237.5	134.0	4	4	4				
USE	·	237.5	134	4	4	4				

HMA WIDENING & SHOULDER SCHEDULE									
STATION TO STATION			SIDE		HMA BASE COURSE WIDENING, 10"	HMA SHOULDERS			
					SO YD	TON			
	130+15.00					3.2			
130+15.00	132+49.50	LT	&	RT	182.4	15.3			
	135+50.00				181.6	15.3			
135+50.00	136+00.00	LΤ	&	RT	25.0	2.1			
TOTAL					426.5	35.9			
USE					427	36			
,									

PAINT PAVEMENT MARKING - LINE 5" SCHEDULE								
			MARKING - LINE 5"					
STATION TO STATION	SIDE	SOLID WHITE	SKIP-DASH YELLOW					
		FOOT						
129+40.00 136+00.00	LT & RT	1320						
129+40.00 136+00.00	CL		165					
TOTALS	-	1320 165						
USF		14	185					

PAVEMENT REMOVAL					
STATION TO STATION	SIDE	LENGTH	WIDTH	AREA	
STATION TO STATION	SIDE	F0	OT	SQ YD	
132+43.49132+69.40	LT & RT	25.9	26	74.9	
132+96.60 133+22.00	LT & RT	25.9	26	74.8	
1	149.7				
		150			

PAVING SCHEDULE					
STATION TO STATION	STATION BITUMINOUS MATERIALS (PRIME COAT) HMA SURFACE CSE, MIX "C", N50, 1 1/2"		CSE. MIX "C".	BRIDGE APPROACH PAVEMENT (SPECIAL)	
		SQ YD			
129+40.00 132+49.50	0.5	1.8	75.5		
132+49.50 132+69.42				56.4	
132+96.58 133+16.50				56.4	
133+16.50 136+00.00	0.5	1.7	69.1		
TOTAL	1.0	3.5	144.6	112.8	
USE	1	4	145	113	

ENTRANCE PAVEMENT SCHEDULE					
STATION	SIDE	TYPE	AREA	AGG BASE CSE, TY B	INCID HMA SURFACE
			SO YD	TC	N
130+66.0	RT	PE/SR	36.5	16.6	7.1
134+32.0	RT	PE	29.5	10.1	
134+57.7	RT	MB T/O	9.8	3.4	
135+14.0	RT	CE	36.5	16.6	
TOTAL				46.7	7.1
USE			47	8	

REVISIONS		ILLINOIS DEPARTMENT	ΛE	TRANSPORTATION	
NAME	DATE	ILLINOIS	DEI AITTMENT	Oi	TIVALIZATION
		1			

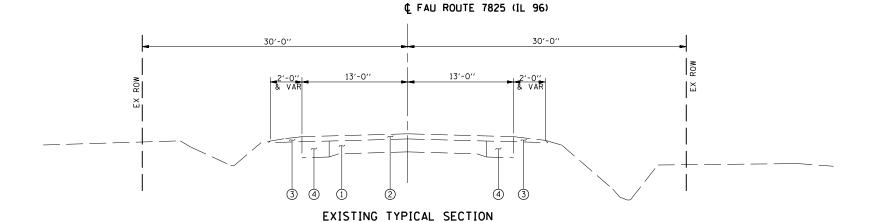
DRAWN BY JCW

CHECKED BY JRB

SCHEDULE OF QUANTITIES

DATE: 05/31/07

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



STA. 129+40.00 TO STA. 136+00.00 (BRIDGE STA. 132+69.90 TO STA. 132+96.10)

¢ FAU ROUTE 7825 (IL 96) 40'-0" 40'-0" 13'-0'' 13'-0'' 12'-0" 12'-0'' (5) 7 PRE-S-1 S-1 S-1

PROPOSED TYPICAL SECTION

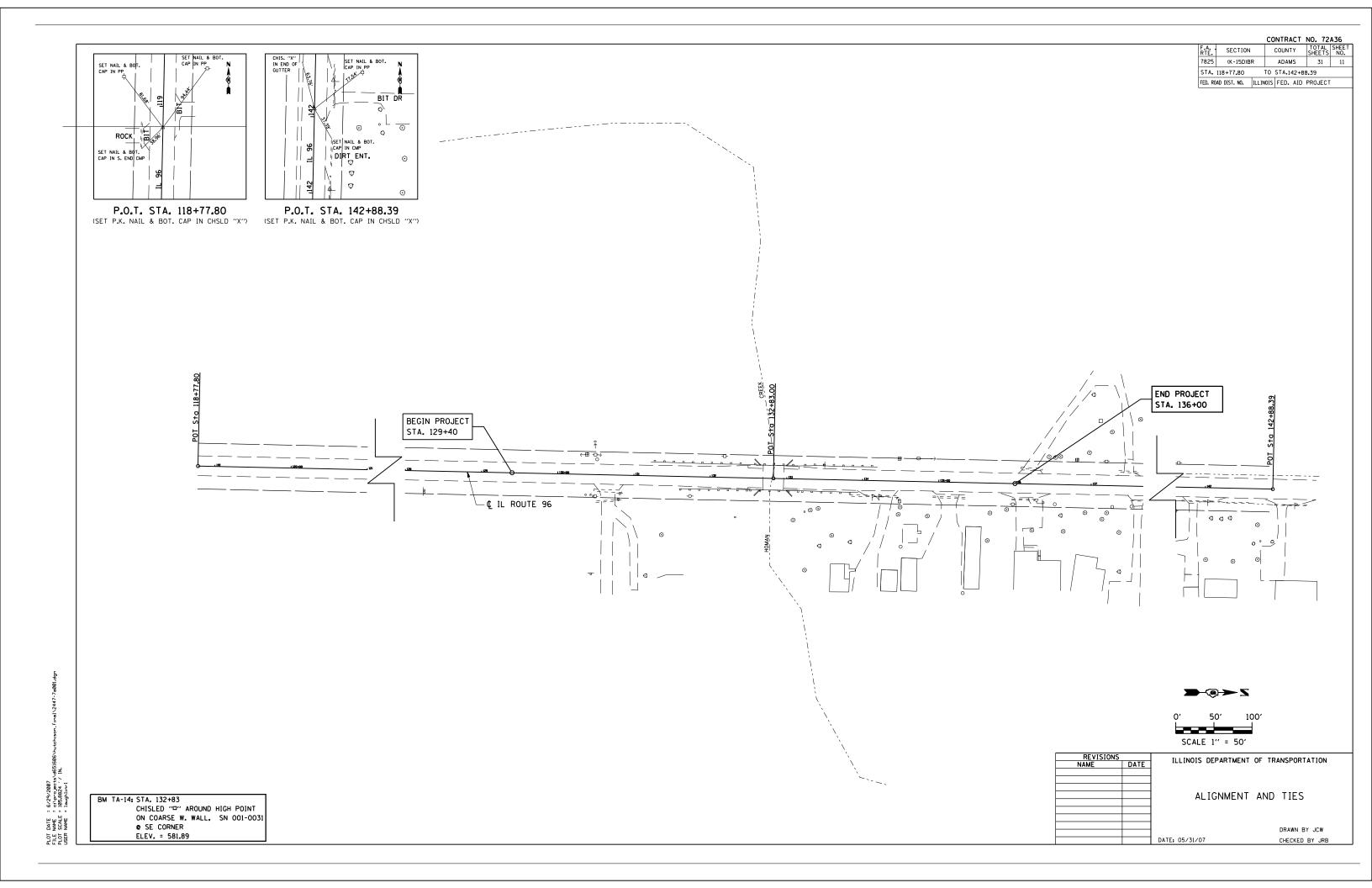
STA. 129+40.00 TO STA. 136+00.00 (BRIDGE/APPROACH STA. 132+49.50 TO STA. 133+16.50)

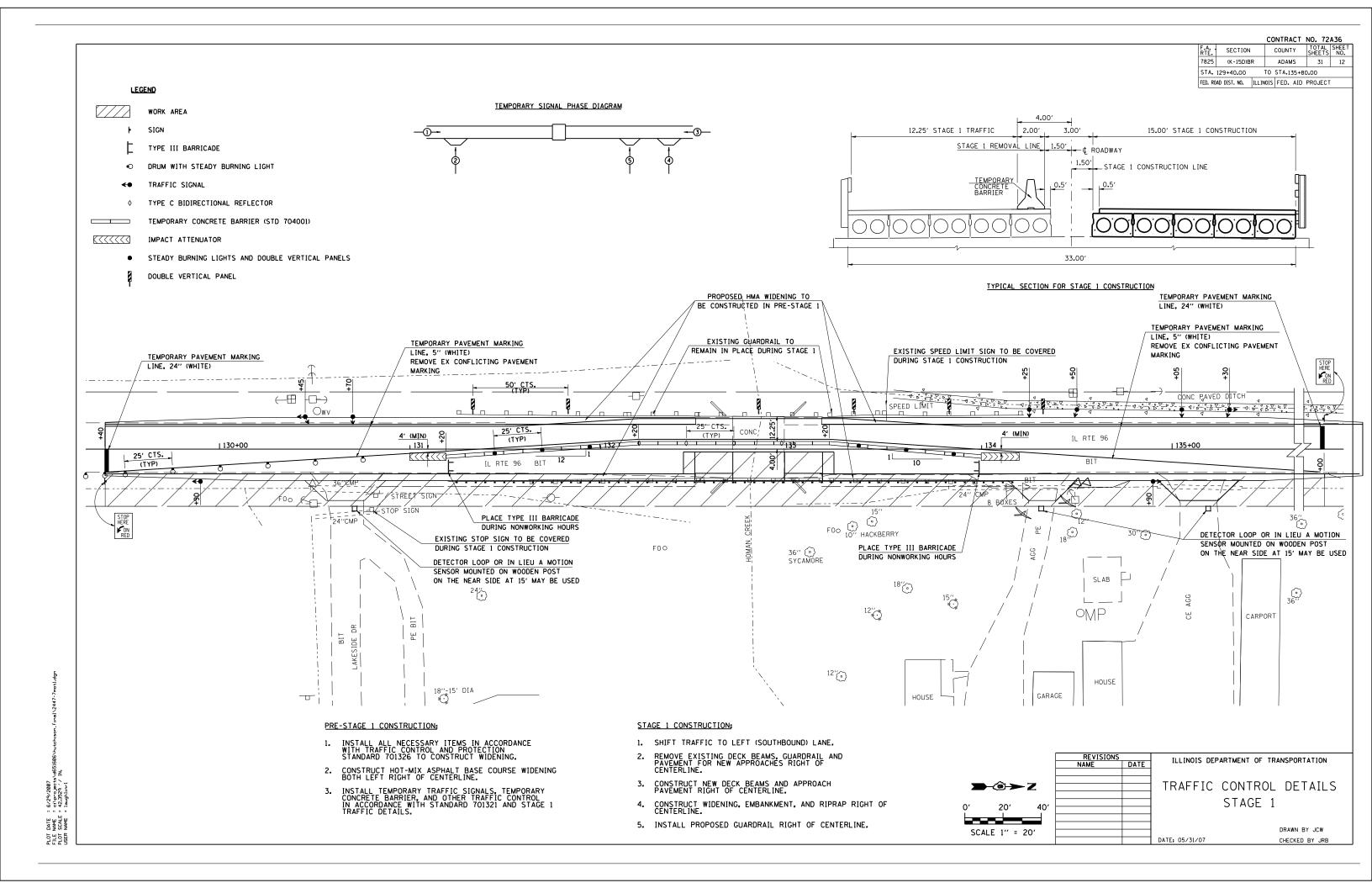
SEE PLAN VIEW FOR GUARDRAIL LOCATIONS AND SHOULDER TAPERS.

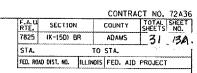
LEGEND

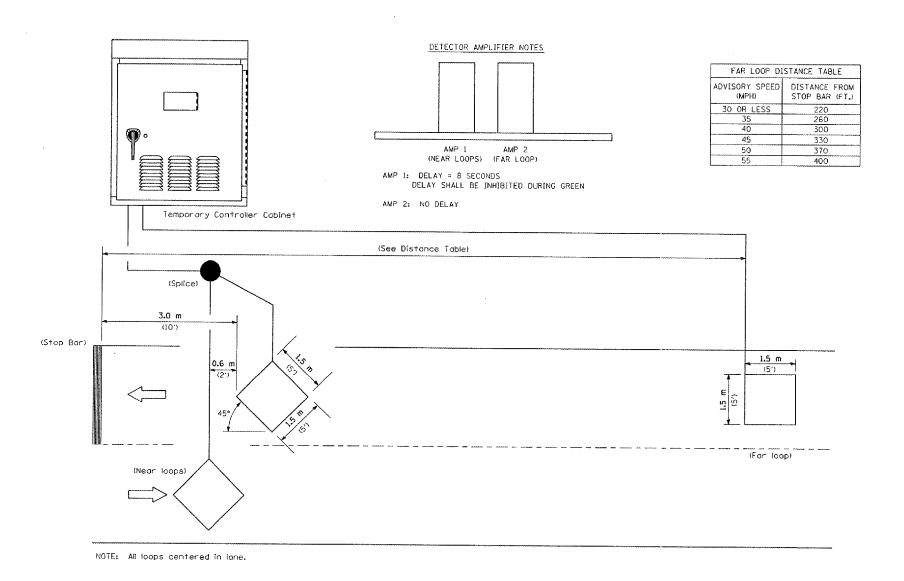
- 1 EXISTING 9-6-9 PCC PAVEMENT
- ② EXISTING HOT MIX ASPHALT SURFACE (4 1/2")
- 3 EXISTING AGGREGATE SHOULDER WEDGE / PCC PRECAST UNIT
- 4 EXISTING HOT MIX ASPHALT WIDENING (9")
- 5) PROPOSED HOT MIX ASPHALT BASE COURSE WIDENING, 10"
- 6 PROPOSED HOT-MIX ASPHALT SHOULDERS (1 1/2")
- 7 PROPOSED AGGREGATE SHOULDERS, TYPE B (SPECIAL)
- 8 PROPOSED STONE DUMPED RIP-RAP, CLASS A-3 (SPECIAL)
- 9 PROPOSED PAINT PAVEMENT MARKING, LINE 5"
- (1) PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")

ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS DRAWN BY JCW DATE: 05/31/07







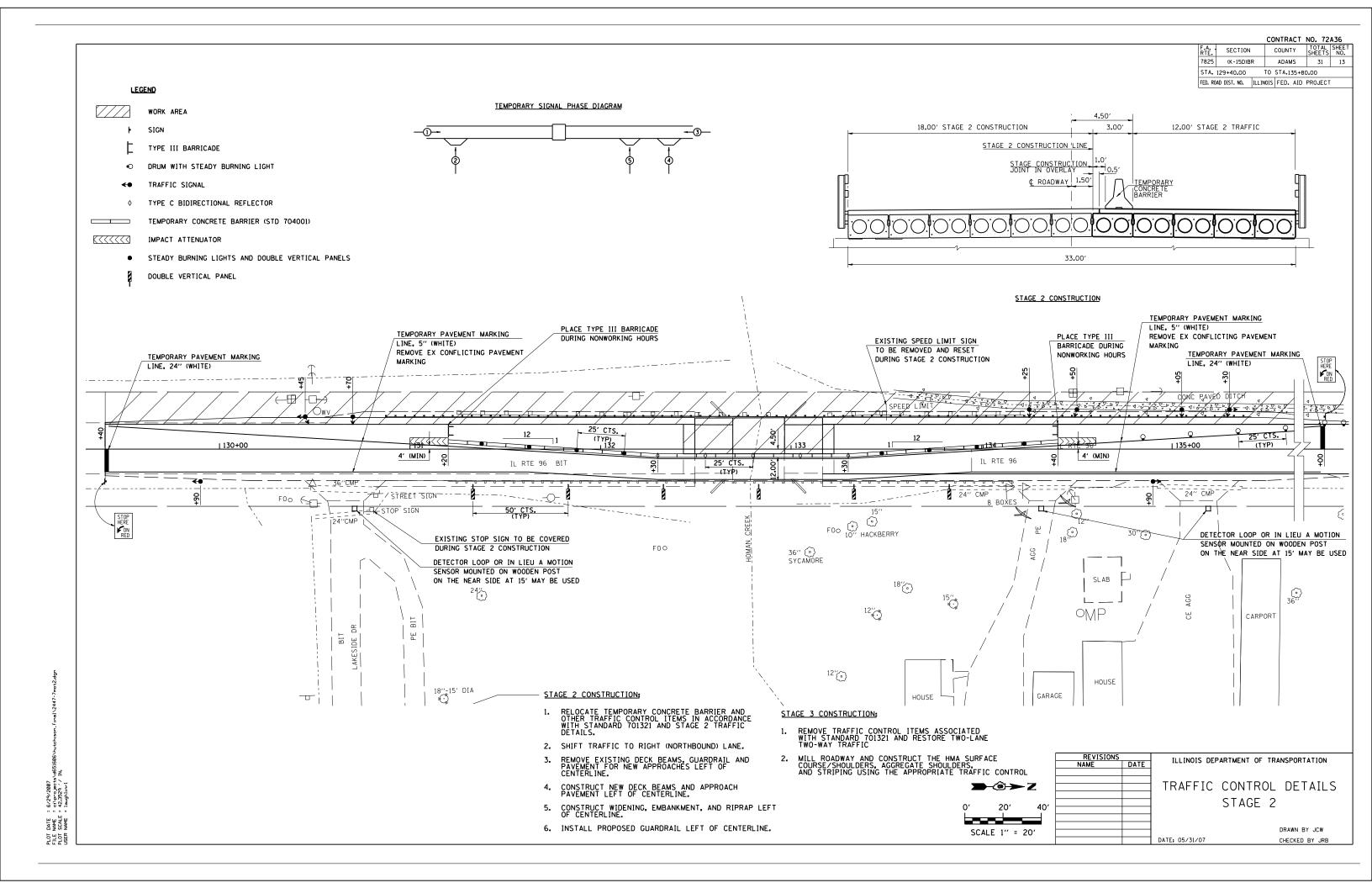


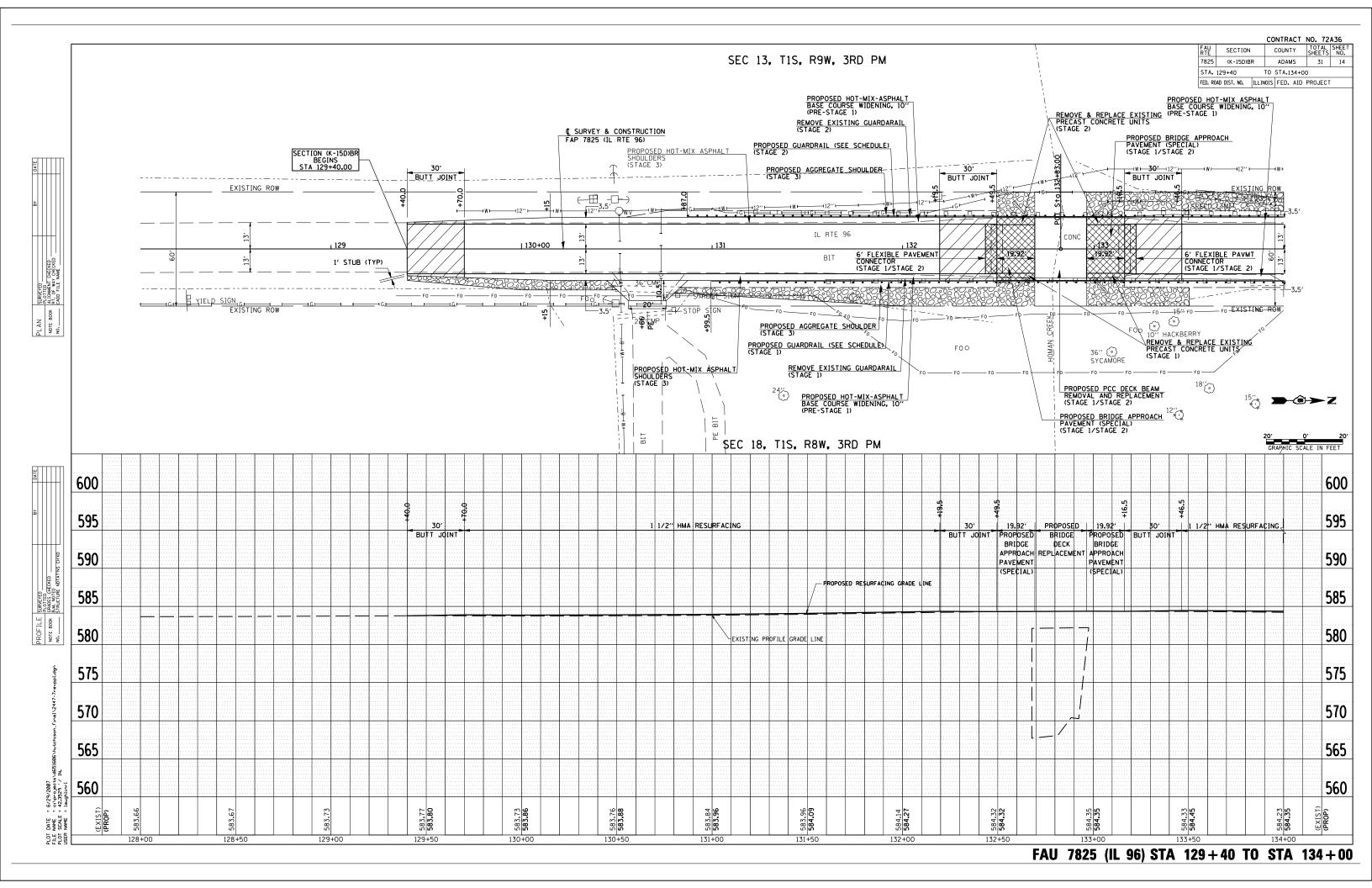
INDUCTION LOOP DETECTOR

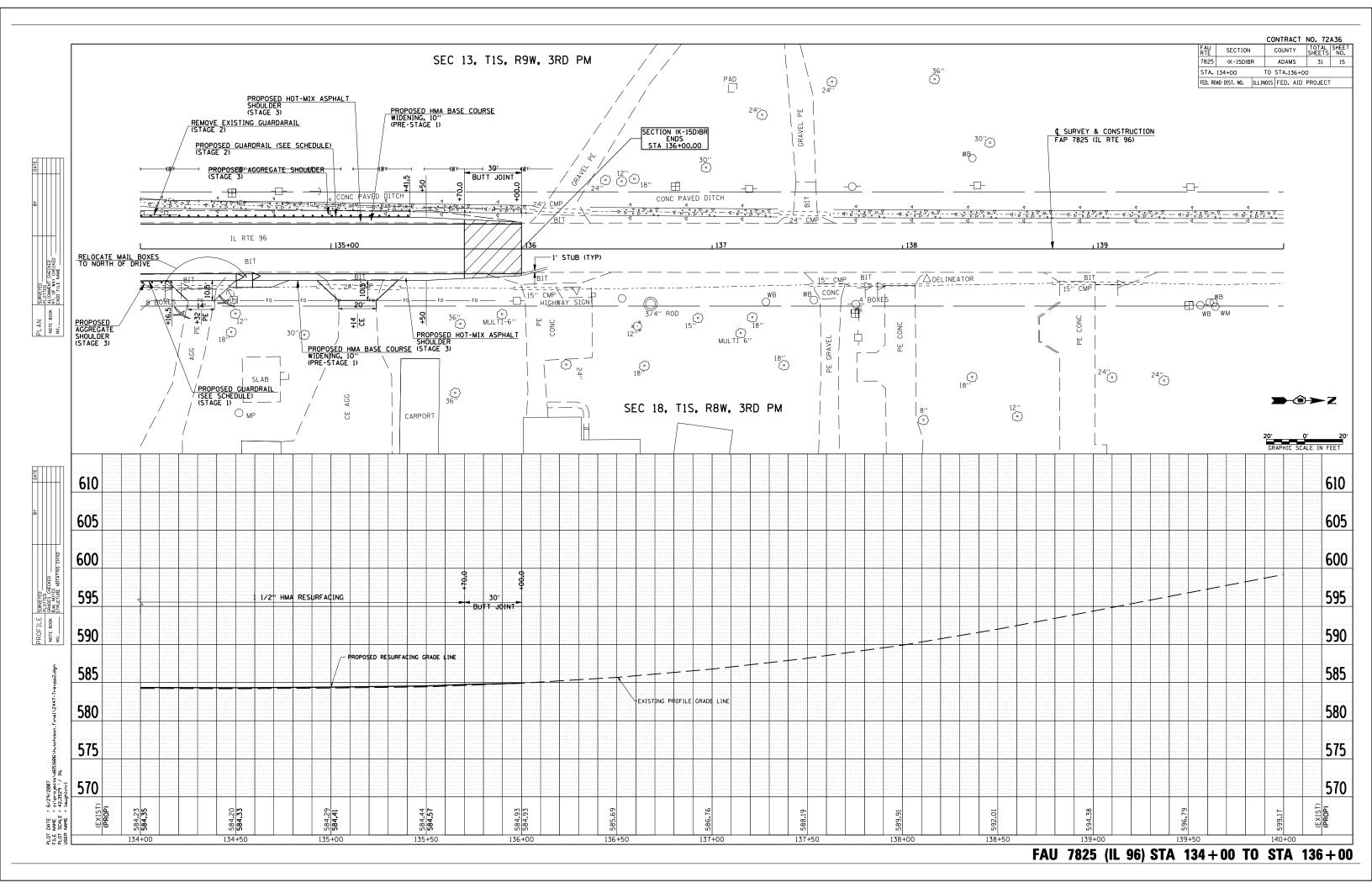
REVISIONS	ILLINOIS DEPARTMENT OF TRANSPOR	TATION
NAME DATE	- TEETHOTS DEFAITIMENT OF THAISTOR	MITON
	TRAFFIC CONTROL & PRO	TECTION
	TEMPORARY BRIDGE TRAFFIC	
	LOOP PLACEMENT DETAIL S	HEET
	SCALE: VERT. NONE DRAWN I	BY DIST. 6
	DATE CHECKED	BY

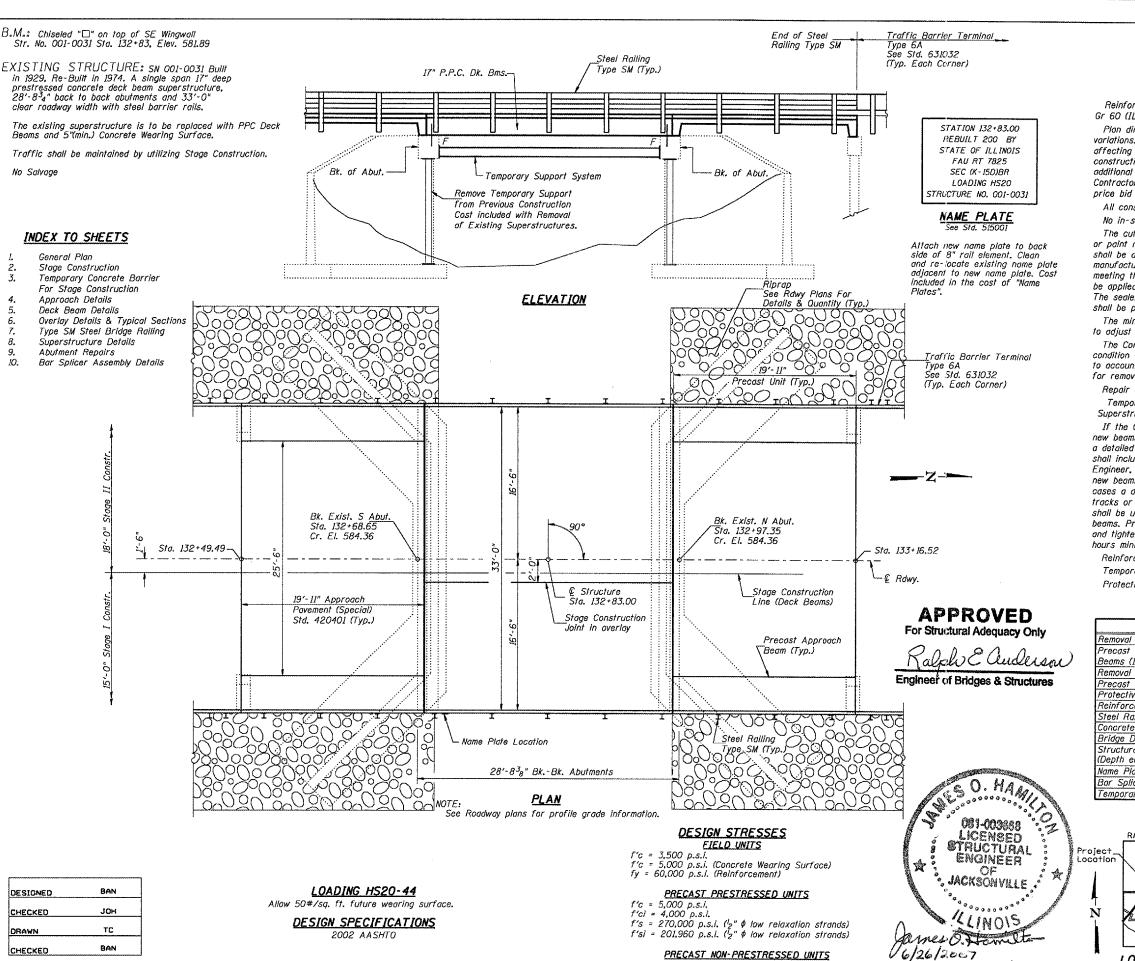
PLOT FILE 1 PLOT USER

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HOUTE NO. SEC TOTAL SHEETS SHEET MO. COUNTY FAU 7825 * ADAMS 16 FED, MOAD DIST. NO. 6 ILLINOIS PROJECT

CONTRACT NO. 72A36

SHEET NO. 1

OF 10 SHEETS

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions

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.

All construction joints shall be bonded.

No in-stream work will be allowed on this project.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for new profile grade and beam camber.

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.

Repair of the abutments shall be completed prior to placement of the new deck beams.

Temporary supports under east end of caps shall be removed after Stage I Superstructure Removal.

If the Contractor's procedure for existing beam removal or placement of the new beams involves placement of cranes or other heavy equipment on the new beams. a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rads 24 hours minimum and grouting and curing the shear keys.

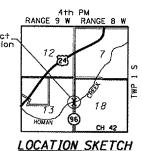
Reinforcement bars designated (E) shall be epoxy coated.

Temporary support system shall be in place prior to superstructure removal.

Protective Coat shall be applied to the top and edges of the concrete wearing surface.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Superstructures	Each	-	-	1
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	895	-	895
Removal of Existing Precast Concrete Units	Sq. Ft.	299	-	299
Precast Concrete Bridge Slab	Sq. Ft.	299	-	299
Protective Coat	Sq. Yd.	135	*	135
Reinforcement Bars, Epoxy Coated	Pound	1,690	180	1,870
Steel Railing, Type SM	Foot	134	-	134
Concrete Wearing Surface, 5"	Sq. Yd.	133	-	133
Bridge Deck Grooving	Sq. Yd.	93	-	93
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	-	209	209
Name Plates	Each	-	~	1
Bar Splicers	Each	112	*	112
Temporary Support System	L. Sum	*	1	1



Lic, Expires 4/30/2008

GENERAL PLAN ILLINOIS ROUTE 96 OVER HOMAN CREEK F.A.U. RT. 7825 SEC. (K-15D)BR ADAMS COUNTY STATION 132+83.00 STR. NO. 001-0031

HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

PRECAST NON-PRESTRESSED UNITS f'c = 4,500 p.s.i.

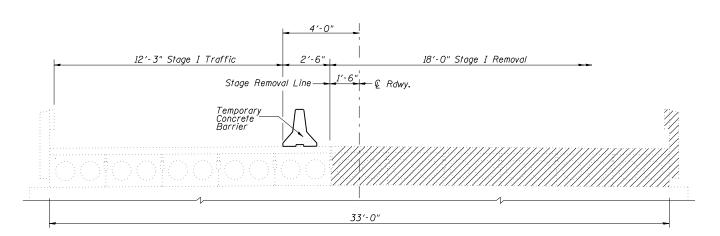
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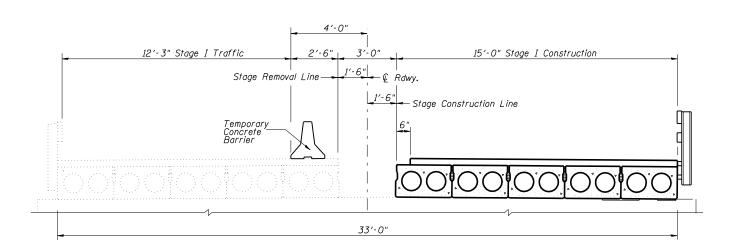
* (K-15D)BR

CONTRACT NO. 72A36

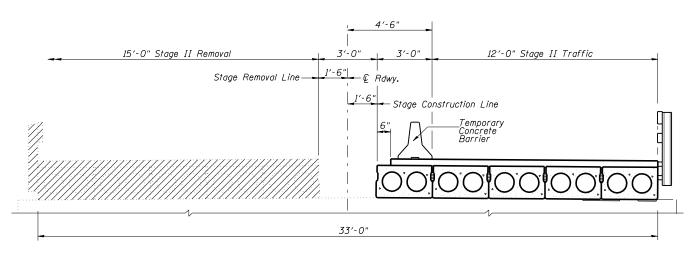
OF 10 SHEETS



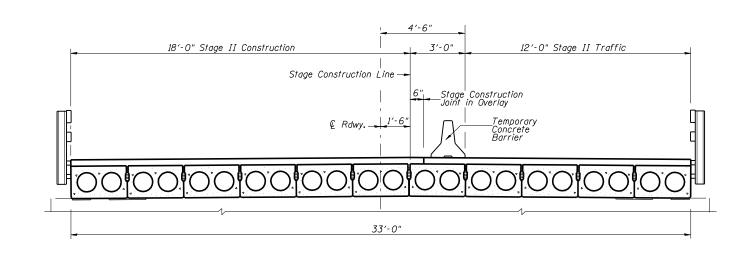




STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
All cross-sections are looking north.
Hatched area indicates Removal.
of Existing Superstructure.
For Temporary Concrete Barrier Details
see sheet 3 of 10.

DESIGNED BAN
CHECKED JOH
DRAWN TC
CHECKED BAN

STAGE CONSTRUCTION DETAILS

ILLINOIS ROUTE 96 OVER

HOMAN CREEK

F.A.U. RT. 7825 SEC. (K-15D)BR

ADAMS COUNTY

STATION 132+83.00

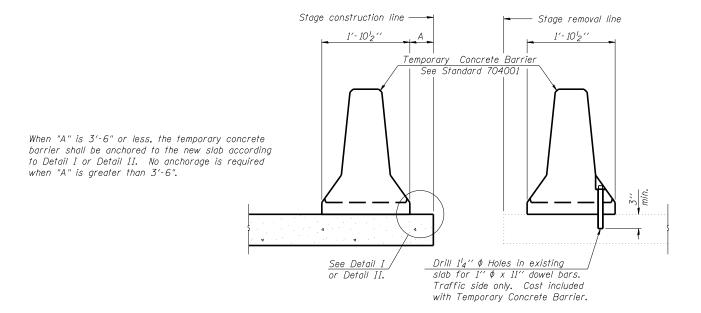
STR. NO. 001-0031

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Date:

* (K-15D)BR

CONTRACT NO. 72A36

OF 10 SHEETS



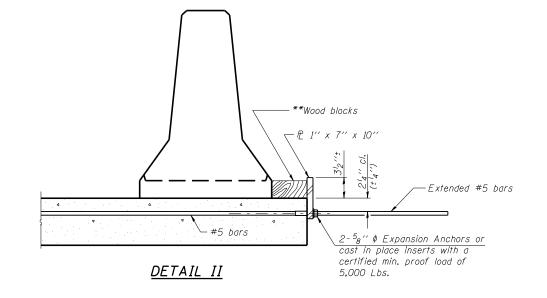
NEW SLAB

— **Wood blocks — № 1'' x 7'' x 10''

(2-5₈" \$\phi Bolts

EXISTING SLAB

SECTIONS THRU SLAB



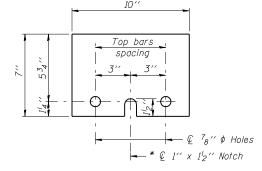
<u>NOTES</u>

Detail I - With Bar Splicer or Couplers:

Connect one (1) 1"x7"x10" steel ₱ to the
top layer of couplers with 2-5₈" \$\phi\$ bolts
screwed to coupler at approximate € of
each barrier panel.

Detail II - With Extended Reinforcement Bars: Connect one (1) 1''x7'''x10''' steel n to the concrete slab with $2^{-5}8''$ ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℓ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The $1^{\prime\prime}$ x $7^{\prime\prime}$ x $10^{\prime\prime}$ 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.



STEEL RETAINER 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.

TEMPORARY CONCRETE BARRIER
<u>FOR STAGE CONSTRUCTION</u>
ILLINOIS ROUTE 96 OVER
HOMAN CREEK
F.A.U. RT. 7825 SEC. (K-15D)BR
<u>ADAMS COUNTY</u>
<u>STATION 132+83.00</u>
<u>STR. NO. 001-0031</u>

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Page 1

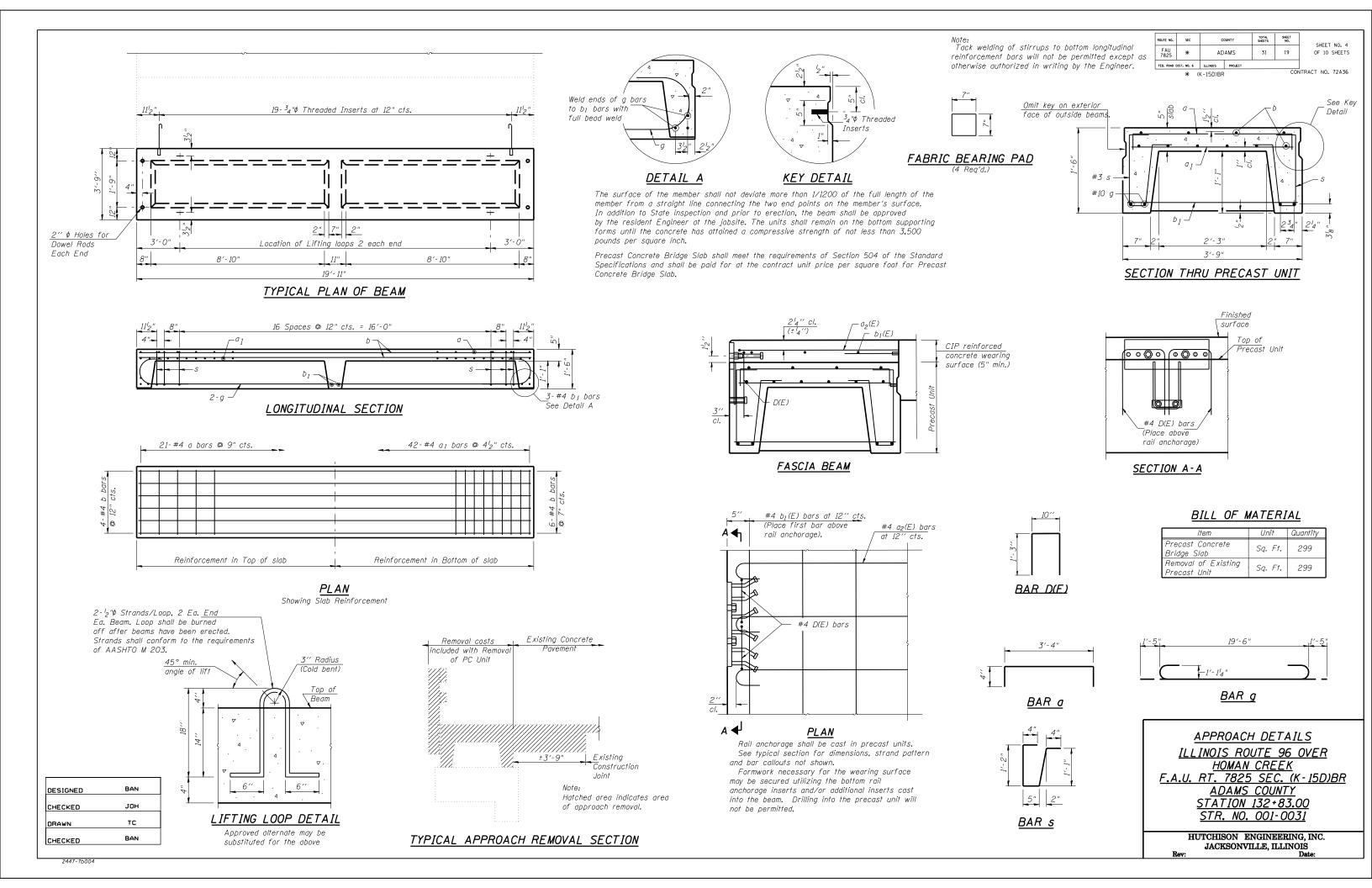
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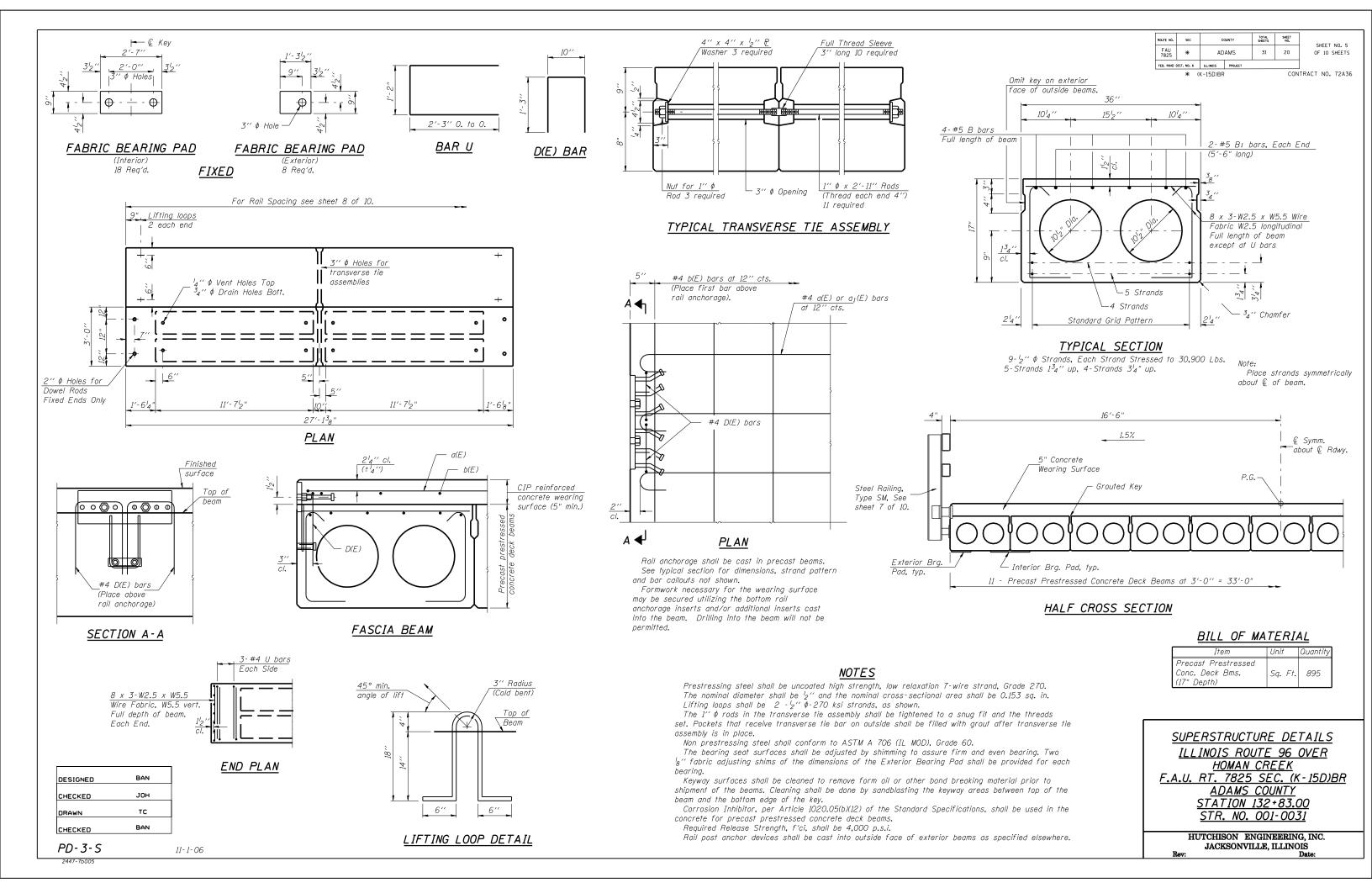
R-27

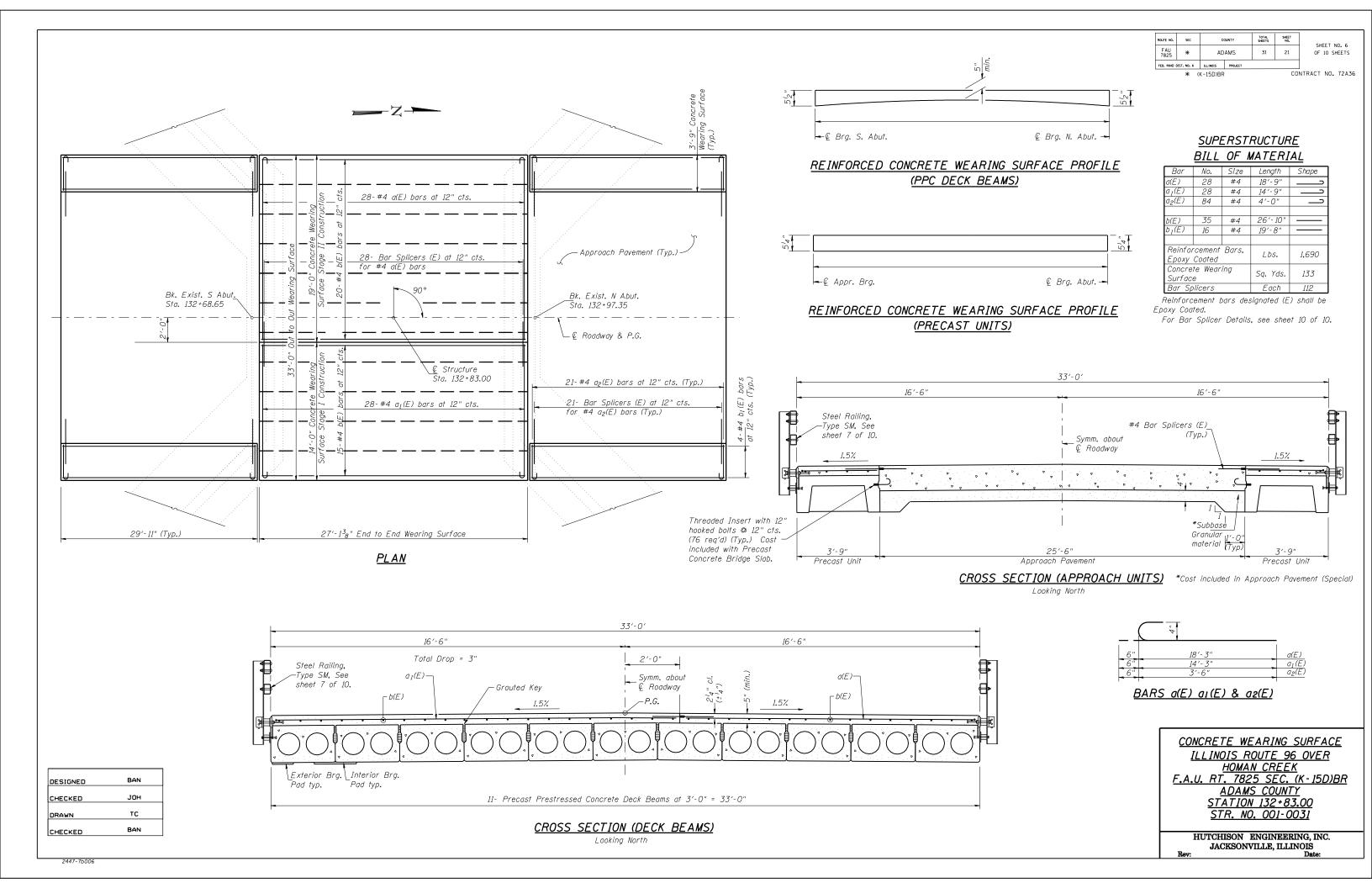
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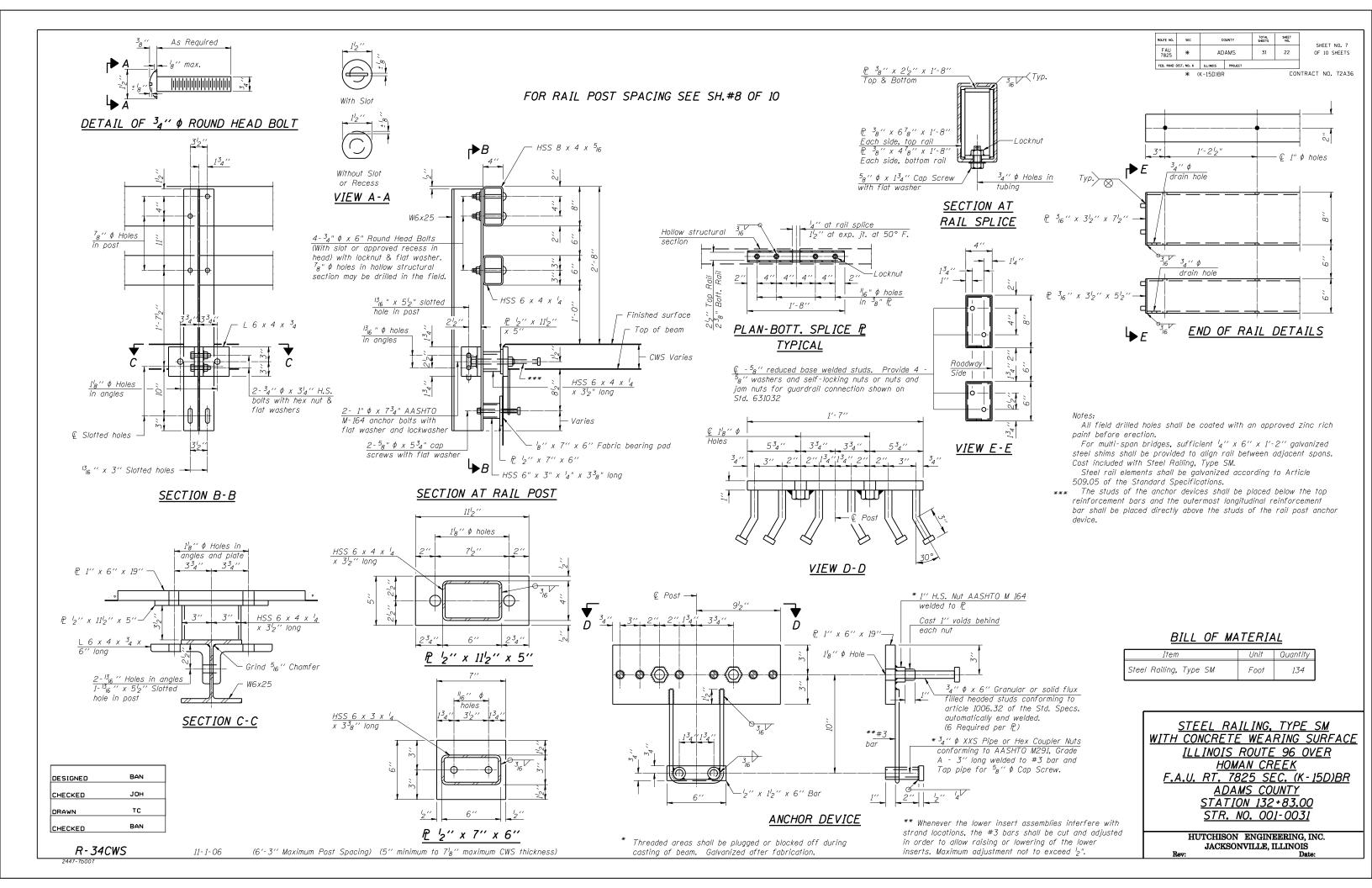
DETAIL I

└─Top Layer Splicer









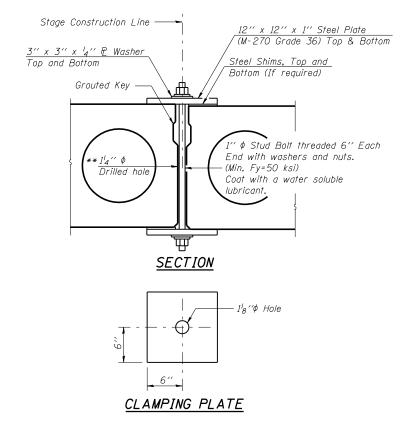
* (K-15D)BR

OF 10 SHEETS

CONTRACT NO. 72A36

P.P.C. Dk. Bms. ├─ @ Beam & Span 4 - 12" x 12" x 1" Steel Plates at 3′-0″ cts. Top and Bott., Each Span

PLAN

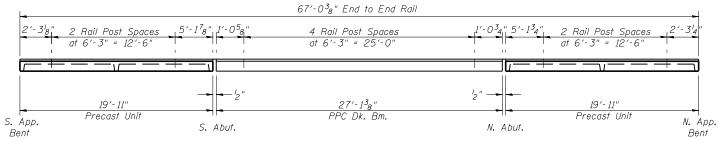


SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

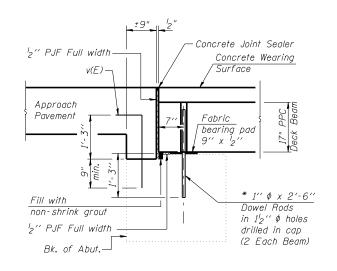
Cost included with Precast Prestressed Concrete Deck Beams. See Stage Construction Details for traffic lanes.

** 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 locations for the clamping device bolts. If the Contractor elects to use this alternate, the details shall be identified on the shop drawings.

DESIGNED	BAN
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CHECKED	BAN

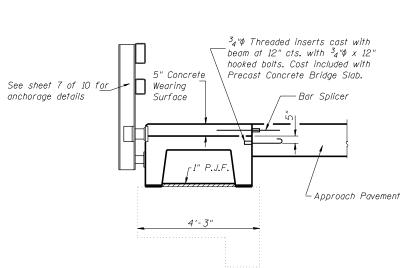


RAIL POST SPACING

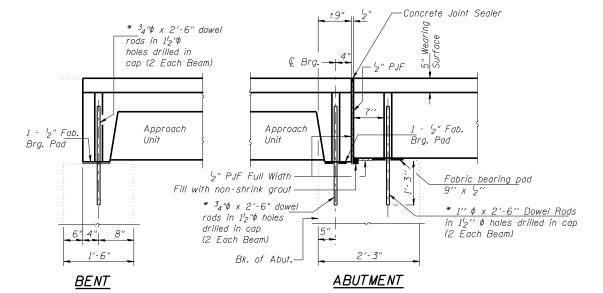


SECTION THRU ABUTMENT AT & ROADWAY

* Existing Dowel Rods shall be burned off flush with the top of existing concrete, ground smooth, and sealed with epoxy. Cost to be included in the cost of Removal of Existing Superstructures/Removal of Existing Precast Concrete Units. After beams have been erected, holes shall be drilled into substructure and anchor dowels 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.



TYPICAL APPROACH SECTION NEAR BENT



TYPICAL SECTION AT OUTSIDE FACE OF APPROACH BEAM

> All horizontal dimensions are at right angles to beam ends. See sheet 4 & 5 of 10 for bearing pad details.

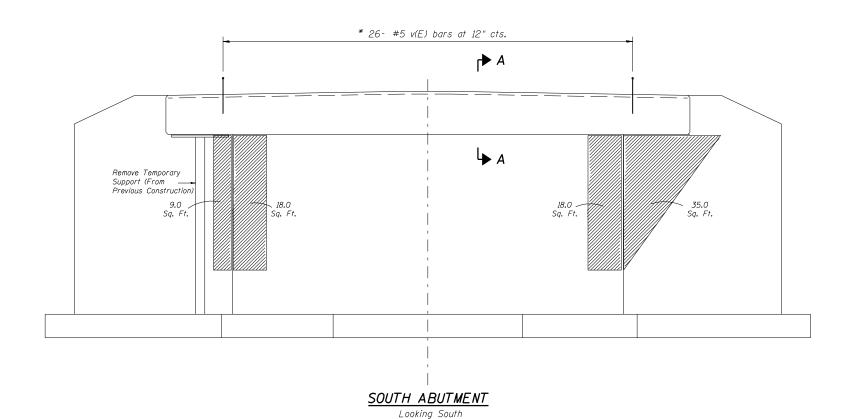
> > SUPERSTRUCTURE DETAILS <u>ILLINOIS ROUTE 96 OVER</u> HOMAN CREEK F.A.U. RT. 7825 SEC. (K-15D)BR ADAMS COUNTY STATION 132+83.00 STR. NO. 001-0031

> > > HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

* (K-15D)BR

CONTRACT NO. 72A36

OF 10 SHEETS



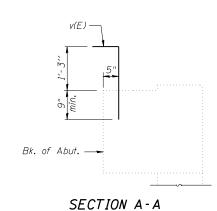
* 26- #5 v(E) bars at 12" cts.

12.0 -Sq. Ft. r► A

4 A

10.0 / Sq. Ft.

> Remove Temporary - Support (From Previous Construction)



1'-3"

BAR v(E)

BILL OF MATERIAL

۱	Bar	No.	Size	Length	Shape
	v(E)	52	#5	3'-3"	_
		rcement Coated	Bars,	Pound	180
	Concre	ural Rep ete (Depi less thai	h equal	Sq. Ft.	209

Reinforcement bars designated (E) shall be Epoxy Coated.

NORTH ABUTMENT Looking North

18.0 Sq. Ft.

* Epoxy grout v(E) bars 9" min. into drilled
holes according to Section 584 of the
Standard specifications.

<u>LEGEND</u> Structural Repair of Concrete (Depth Equal to or less than 5") ABUTMENT DETAILS

ILLINOIS ROUTE 96 OVER

HOMAN CREEK

F.A.U. RT. 7825 SEC. (K-15D)BR

ADAMS COUNTY

<u>ADAMS COUNTY</u> <u>STATION 132+83.00</u> <u>STR. NO. 001-0031</u>

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
ev: Date:

DESIGNED

CHECKED

DRAWN

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TC

BAN

TOTAL SHEETS SHEET NO. ROUTE NO. SEC COUNTY FAU 7825 * ADAMS FED. ROAD DIST. NO. 6 ILLINOIS PROJECT

CONTRACT NO. 72A36 * (K-15D)BR

OF 10 SHEETS

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.

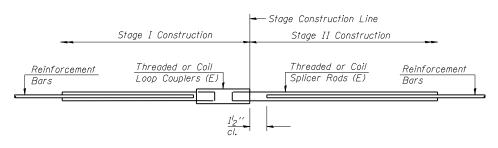
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity = $1.25 \times fy \times A_t$

Minimum *Pull-out Strength = 0.66 x fy x A,

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity 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				



STANDARD

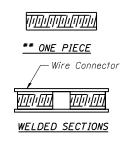
Bar Size	No. Assemblies Required	Location		
#4	112	Conc. Wear. Surf.		

BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 96 OVER HOMAN CREEK F.A.U. RT. 7825 SEC. (K-15D)BR ADAMS COUNTY STATION 132+83.00 STR. NO. 001-0031

> HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

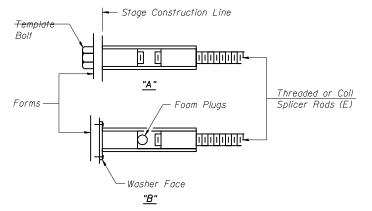
— The diameter of this part is equal or larger than the diameter of bar spliced. The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



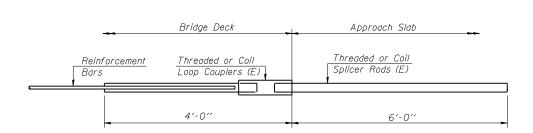
BAR SPLICER ASSEMBLY ALTERNATIVES

** 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.



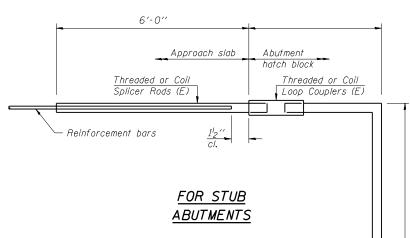
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension o. Required =

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CHECKED	BAN

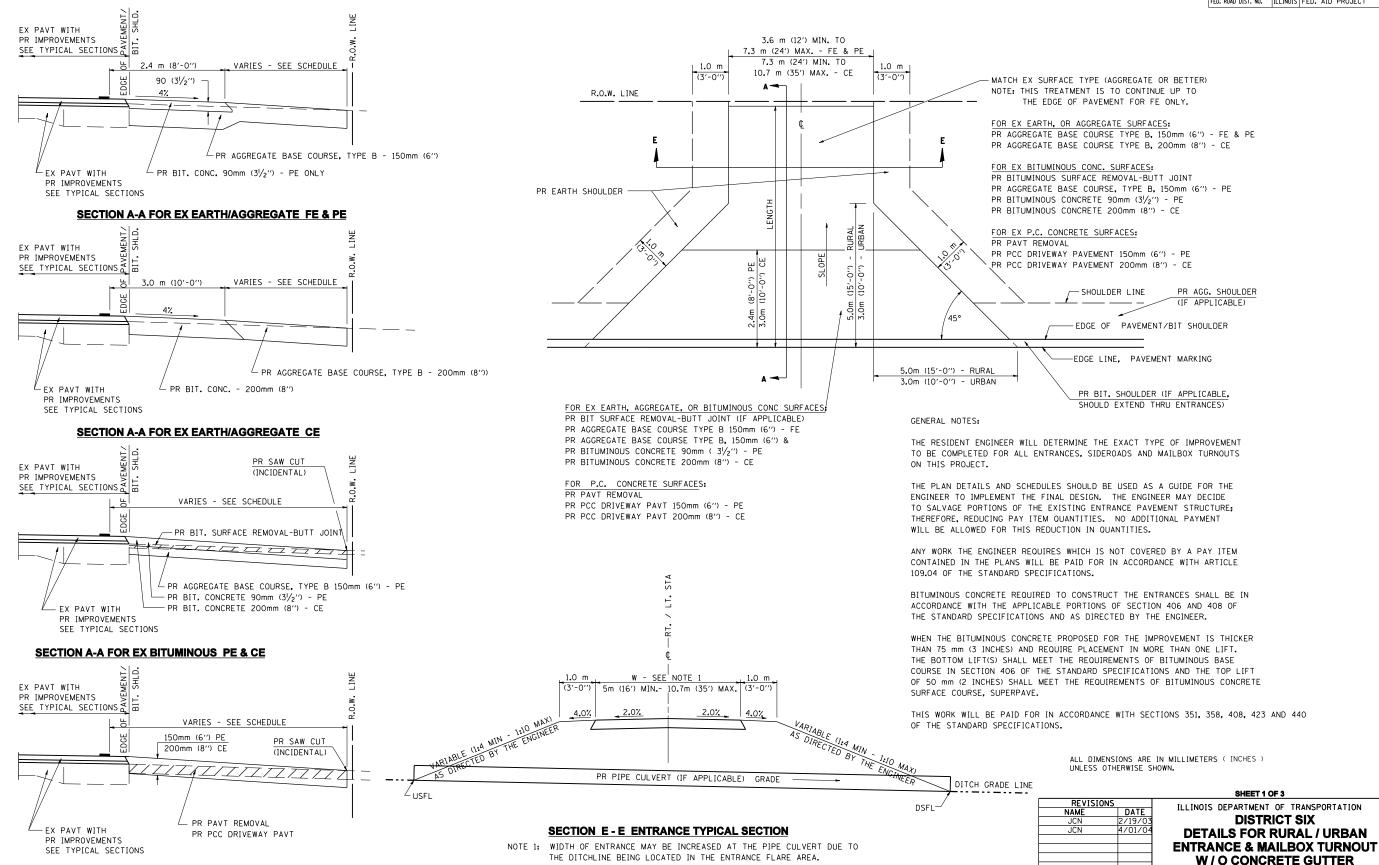
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Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension No. Required =



Min. Pull-out Strength = 12.3 kips - tension

BSD-1



ENT 3R

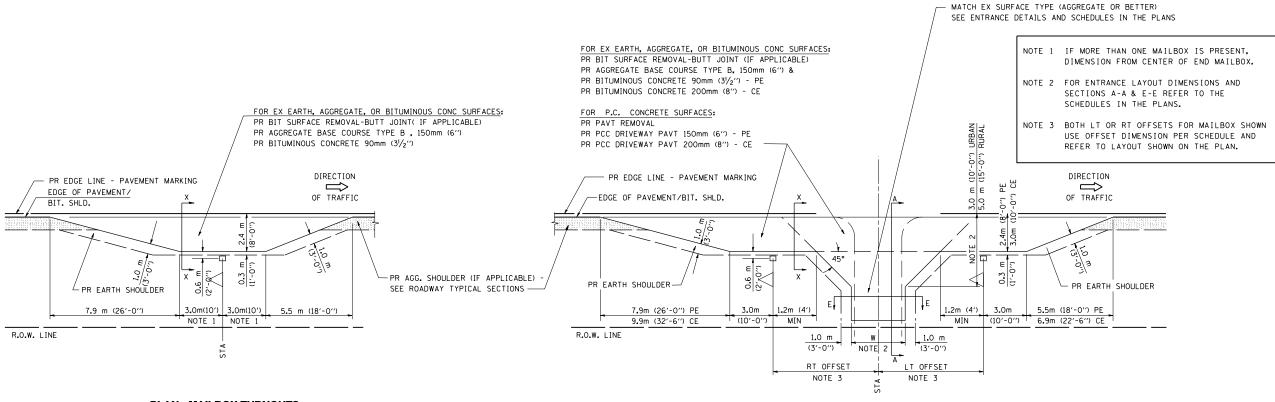
SECTION A-A FOR EX P.C. CONC. PE & CE

SCALE: VERT. DRAWN BY CADD

(3R - PROJECTS)

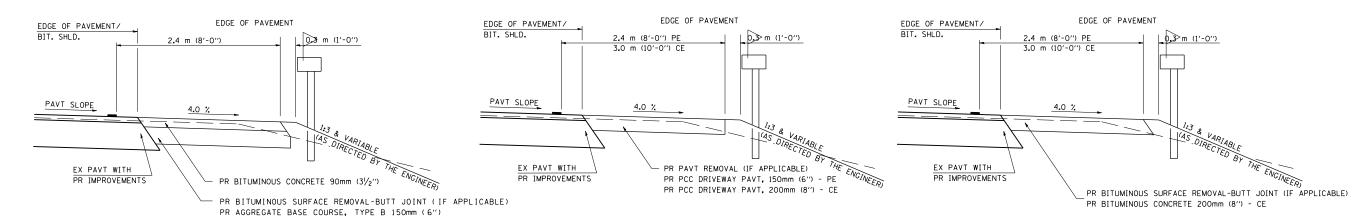
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DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT

ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE

SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX CONC PE OR CE

SECTION X-X THRU MAILBOX TURNOUT
COMBINED WITH EX EARTH, AGGREGATE, OR BITUMINOUS CE

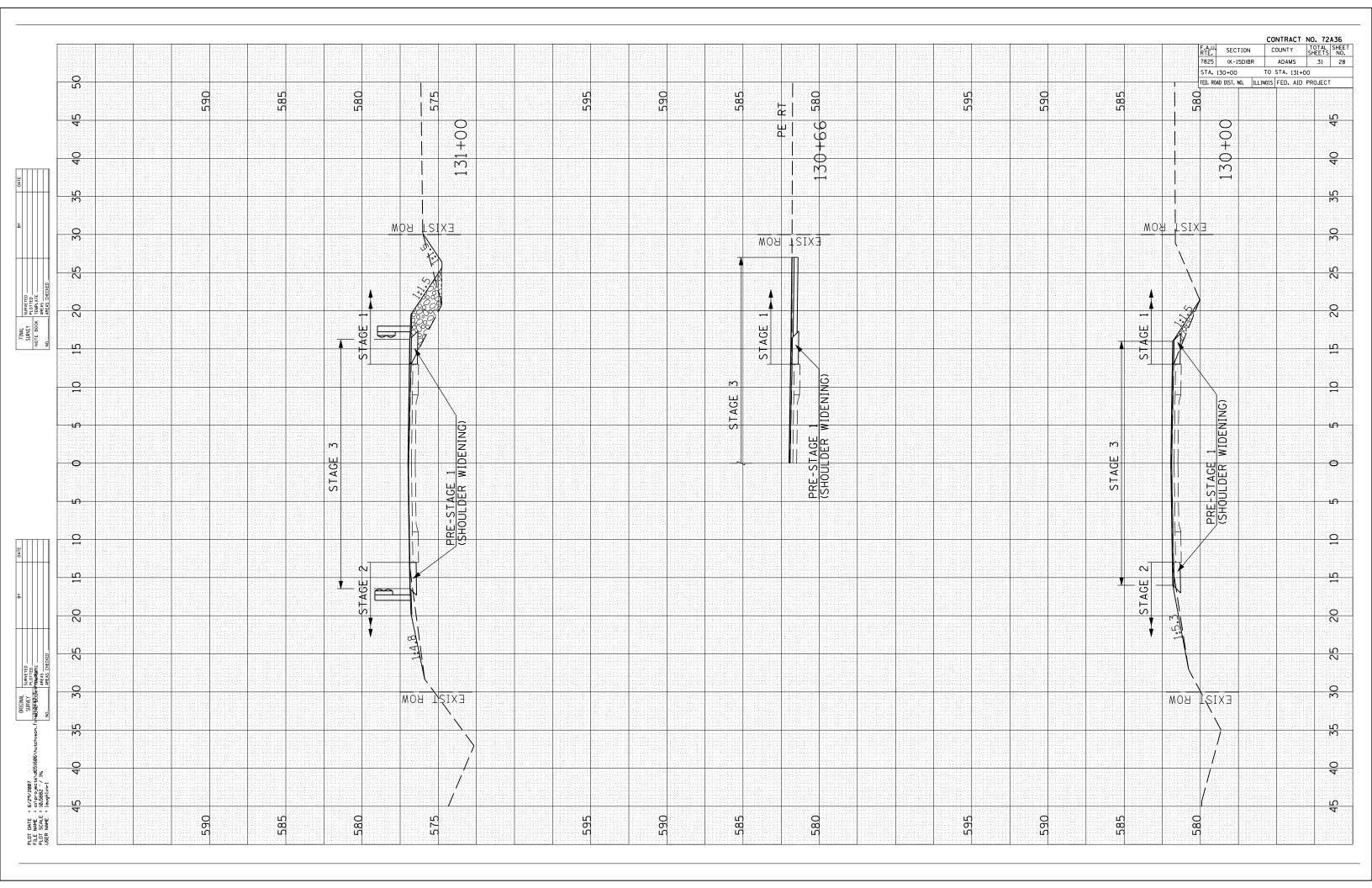
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NAME DATE
JCN 2/19/03
JCN 4/01/04

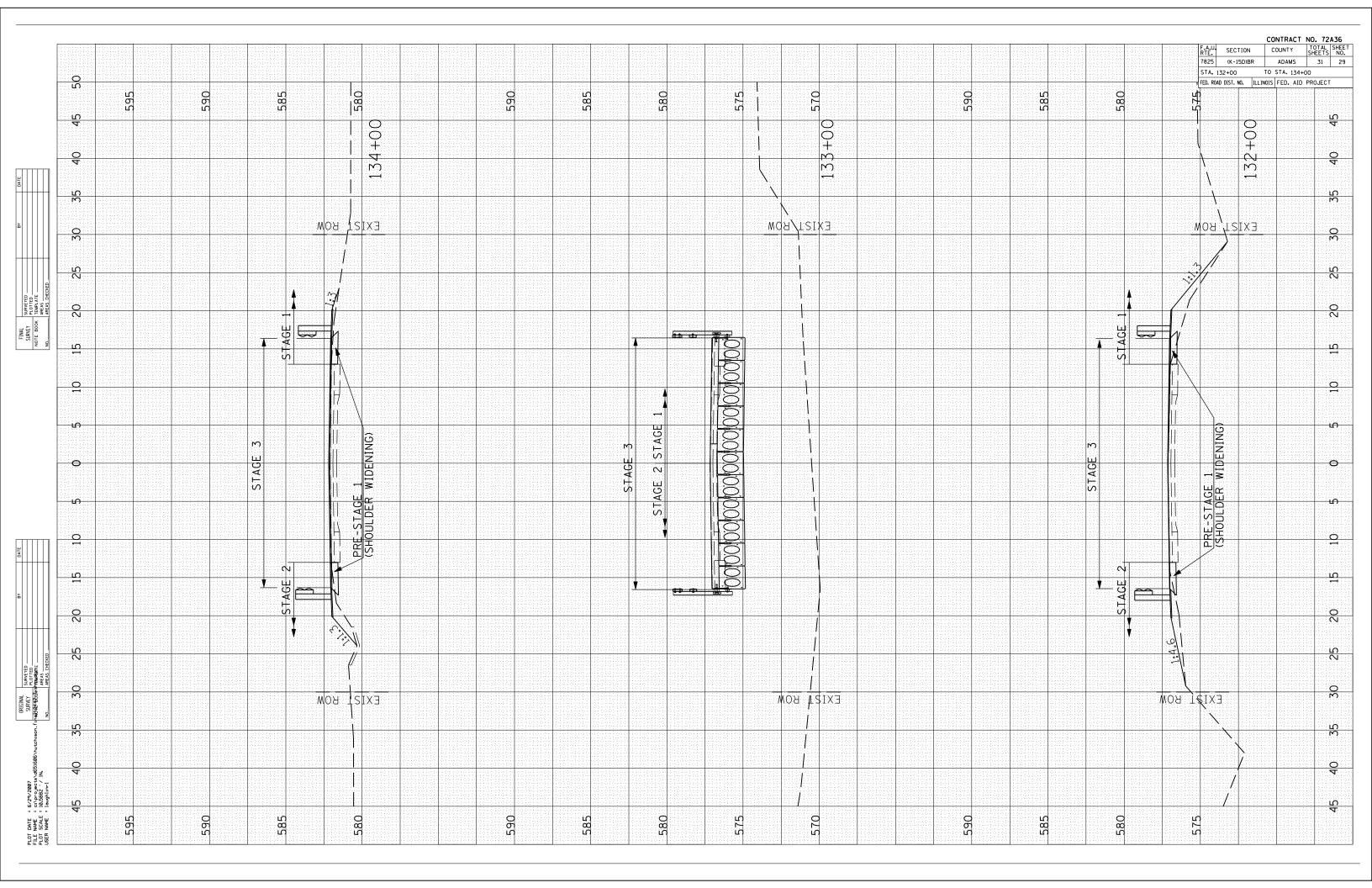
DETAILS FOR RURAL / URBAN
ENTRANCE & MAILBOX TURNOUT
W / O CONCRETE GUTTER
(3R - PROJECTS)

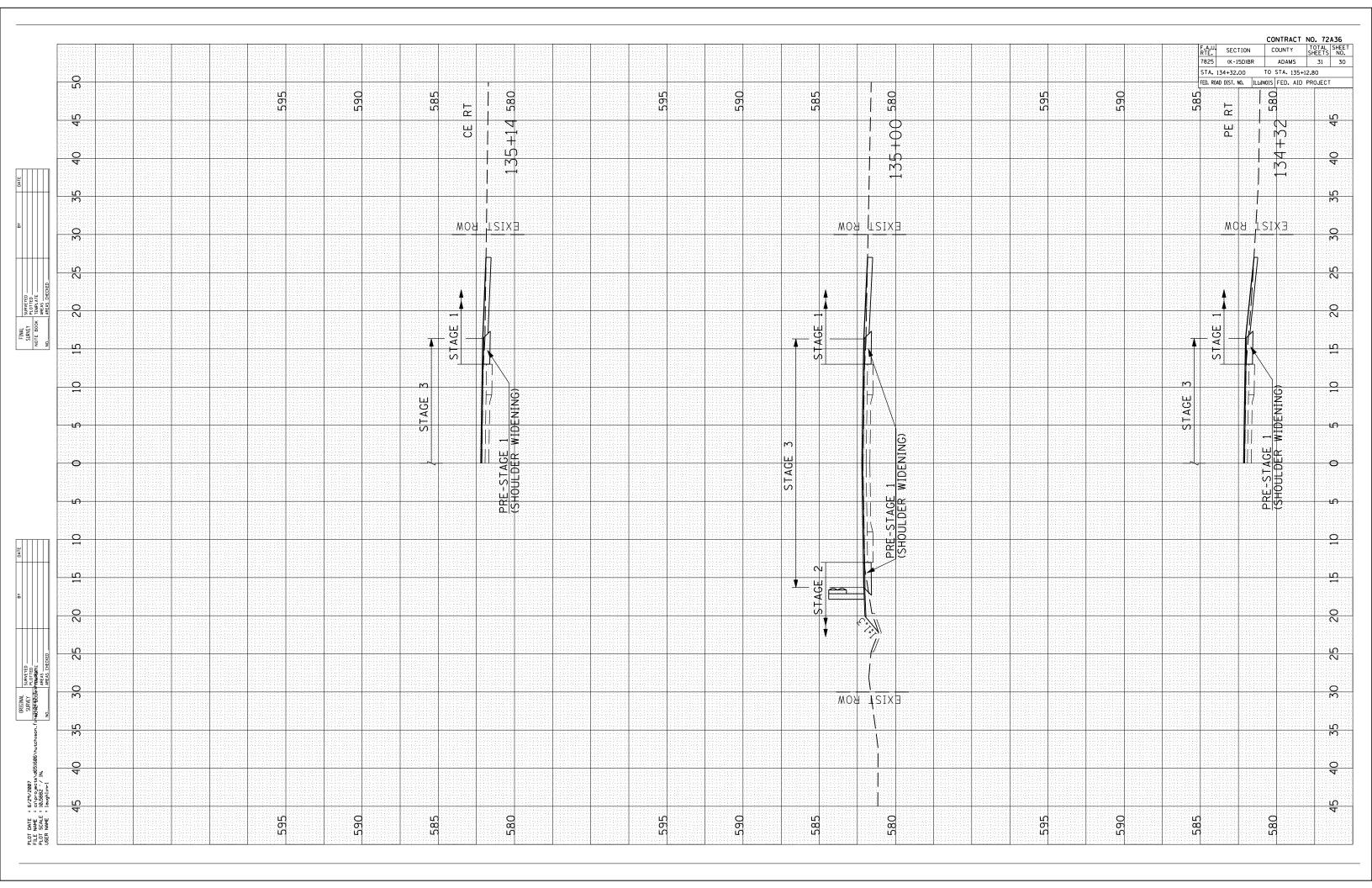
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