SQUAD

SECTION STATE OF ILLINOIS (125BR-2)D Description Page COVER SHEET DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES GENERAL NOTES D-92-092-07 TYPICAL SECTIONS **DIVISION OF HIGHWAYS** 7-8 SCHEDULE OF QUANTITIES BITUMINOUS SCHEDULE HORIZONTAL & VERTICAL CONTROL 10 PLAN & PROFILE 11-12 **PROPOSED** BRIDGE PLANS STAGING DETAILS HOT-MIX ASPHALT SHOULDER (23.40) 28 INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) (39.4) TYPICAL BENCHING ON EXISTING EMBANKMENT (50.4) HIGHWAY PLANS STOP LINE SIGN FOR TEMPORARY SIGNALS (99.4) EROSION CONTROL DETAILS FOR SILT FENCE (29.2) 29 WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (66.2) 30-31 TYPICAL PAVEMENT MARKINGS (41.1) F.A.P. ROUTE 22 (IL 78) IL 78 CROSS SECTIONS 32-34 SECTION (125BR-2)D PROJECT BHF-0022 (067) STATE STANDARDS HENRY COUNTY AREAS OF REINFORCEMENT BARS 001001-01 DECIMAL OF AN INCH AND A FOOT 001006 C-92-112-07 TEMPORARY EROSION CONTROL SYSTEMS 280001-03 420401-05 BRIDGE APPROACH PAVEMENT NAME PLATE FOR BRIDGES 515001-02 STEEL PLATE BEAM GUARDRAIL 630001-07 R.5.E. PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL 630201-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 630301-04 TRAFFIC BARRIER TERMINAL, TYPE 6A 631032-03 DELINEATORS 635001 REFLECTOR AND TERMINAL MARKER PLACEMENT 635006-02 REFLECTOR MARKER AND MOUNTING DETAILS 635011-01 PERMANENT SURVEY MARKERS 667101 TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD 701006-02 TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD 701201-02 TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD 701301-02 **IMPROVEMENT ENDS** TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD 701306-01 LOCATION OF SECTION INDICATED THUS: -701311-02 TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD STA. 684 + 39.05 TYPICAL APPLICATION OF TRAFFIC CONTROL STANDARD 701321-08 T.17N. TRAFFIC CONTROL DEVICES 702001-06 SECTION BEGINS TEMPORARY CONCRETE BARRIER 704001-03 STA. 675 + 78.82 METAL POST FOR SIGNS, MARKERS AND DELINEATORS 720011 TELESCOPING STEEL SIGN SUPPORT 728001 T.17N. SECTION (125BR-2)D APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS) 729001 TYPICAL PAVEMENT MARKINGS 780001-01 INCLUDES THE REMOVAL AND REPLACEMENT OF THE EXISTING 886001 DETECTOR LOOP INSTALLATIONS SUPER STRUCTURE SN-037-0130 OVER COAL CREEK STA. 680 + 94.98. TYPICAL LAYOUT FOR DETECTION LOOPS 886006 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SECTION BEGINS DIVISION OF HIGHWAYS STA. 683 + 94.05 **IMPROVEMENT BEGINS** STA. 675 + 33.82FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD June 29, 00 07 ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT R.5.E. CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION PRINTED BY THE AUTHORITY 1-800-892-0123

NET LENGTH OF PROJECT = 644 LIN. FEET = 0.122 MILES

GROSS LENGTH OF PROJECT = 765 LIN. FEET = 0.145 MILES

COUNTY TOTAL SHEET NO. HENRY 34 1

OF THE STATE OF ILLINOIS

FAP 22 (IL 78)

CONTRACT NO. 64D47

SECTION (125BR-2)D

ALBA TOWNSHIP SECTION - 27

**HENRY COUNTY** 

X081-2A

# SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITES  SUMMARY OF QUANTITES  SOURCE  20X5TA							
	CODE NUMBER	17EM	UNIT	TOTAL				
	20200100	EARTH EXCAVATION	CU YD	235				
	20400800	FURNISHED EXCAVATION	CU YD	190				
	25100630	EROSION CONTROL BLANKET	SQ YD	500				
	28000300	TEMPORARY DITCH CHECKS	EACH	2				
	28000400	PERIMETER EROSION BARRIER	FOOT	300				
	31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SO YD	25				
	35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	22				
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	115				
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	146				
	40600990	TEMPORARY RAMP	SQ YD	80				
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX"C", N50	TON	342				
	42001300	PROTECTIVE COAT	SQ YD	299				
	42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	137				
	44000700	APPROACH SLAB REMOVAL	SQ YD	137				
	48203020	HOT-MIX ASPHALT SHOULDERS, 5-3/4"	SQ YD	1,178				
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1				
	50102400	CONCRETE REMOVAL	CU YD	4.5				
	50300225	CONCRETE STRUCTURES	CU YD	5.8				
	50300260	BRIDGE DECK GROOVING	SQ YD	273				
	50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	359				
	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2618				
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4720				
F	50800515	BAR SPLICERS	EACH	92				
*	50901050	STEEL RAILING , TYPE SM	FOOT	259				
	51500100	NAME PLATES	EACH	1				
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	33				
*	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	525				
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4				
		*SPECIALTY ITEMS						

				80% FED/ 20%STATE
‡	CODE NUMBER	ITEM	UNIT	TOTAL
*	63100167	TRAFFIC BARRIER TERMINAL TYPE I, SPECIAL (TANGENT)	EACH	4
	63200310	GUARDRAIL REMOVAL	FOOT	650
		DELINEATORS	EACH	4
		ENGINEERS FIELD OFFICE, TYPE A	CAL MO	5
	66/00305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
Ŧ	67100100	MOBILIZATION	L SUM	1
+	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
1	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
+	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
+	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	2
‡	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
-	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2243
-	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24
-	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6 <b>8</b> 1
+	70400100	TEMPORARY CONCRETE BARRIER	FOOT	400
-	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400
e	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4500
k ·	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
<u> </u>	78300100	PAVEMENT MARKING REMOVAL	SQ FT	382
1	X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	SQ FT	359
,	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	7
	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	291
1	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	11
1	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Ž	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	2
1	Z0030350	MPACT ATTENUATORS, RELOCATE (NON - REDIRECTIVE). TEST LEVEL 3	EACH	2
		*SPECIALTY ITEMS	1	

# **GENERAL NOTES**

ROUTE NO.	SEC.	COUNTY	TOTAL	SHEET NO.	
FAP 22	(125BR-2)D	Henry	34		
FED ROAD DIST. N	O. ILLINOIS	PROJECT			

See cross sections for special ditches and backslopes.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

It is estimated that 186 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Mainline	Top Shoulder	Bottom	Level Binder
	Surface Course		Shoulder	
PG:	PG 64-22	PG 58-22	PG 58-22	PG 64-22
Design Air Voids	4.0 @ N50	3 @ N50	2 @ N50	4 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5 or 12.5	BAM	IL 9.5
Friction Aggregate	С	C	N/A	N/A
20 Year ESAL	2.2	N/A	N/A	2.2

To help avoid excess drop offs at the edge of pavement, the existing aggregate wedge or shoulder is to be pulled up and rolled to match the edge of pavement before placing any bituminous material. All costs associated with pulling up the shoulders shall be considered included in the contract unit price per TON for HOT-MIX ASPHALT SURFACE COURSE of the type specified.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for LEVELING BINDER (MACHINE METHOD) of the type specified.

This structure will retain the same number 037-0130.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

District 2 District Engineer (1)
Fabricator (1)
Contractor (2)
Resident Engineer (2)
District 2 Bureau of Materials (2)

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Furnished Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Geneseo Telephone Co.

Ameren IP

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

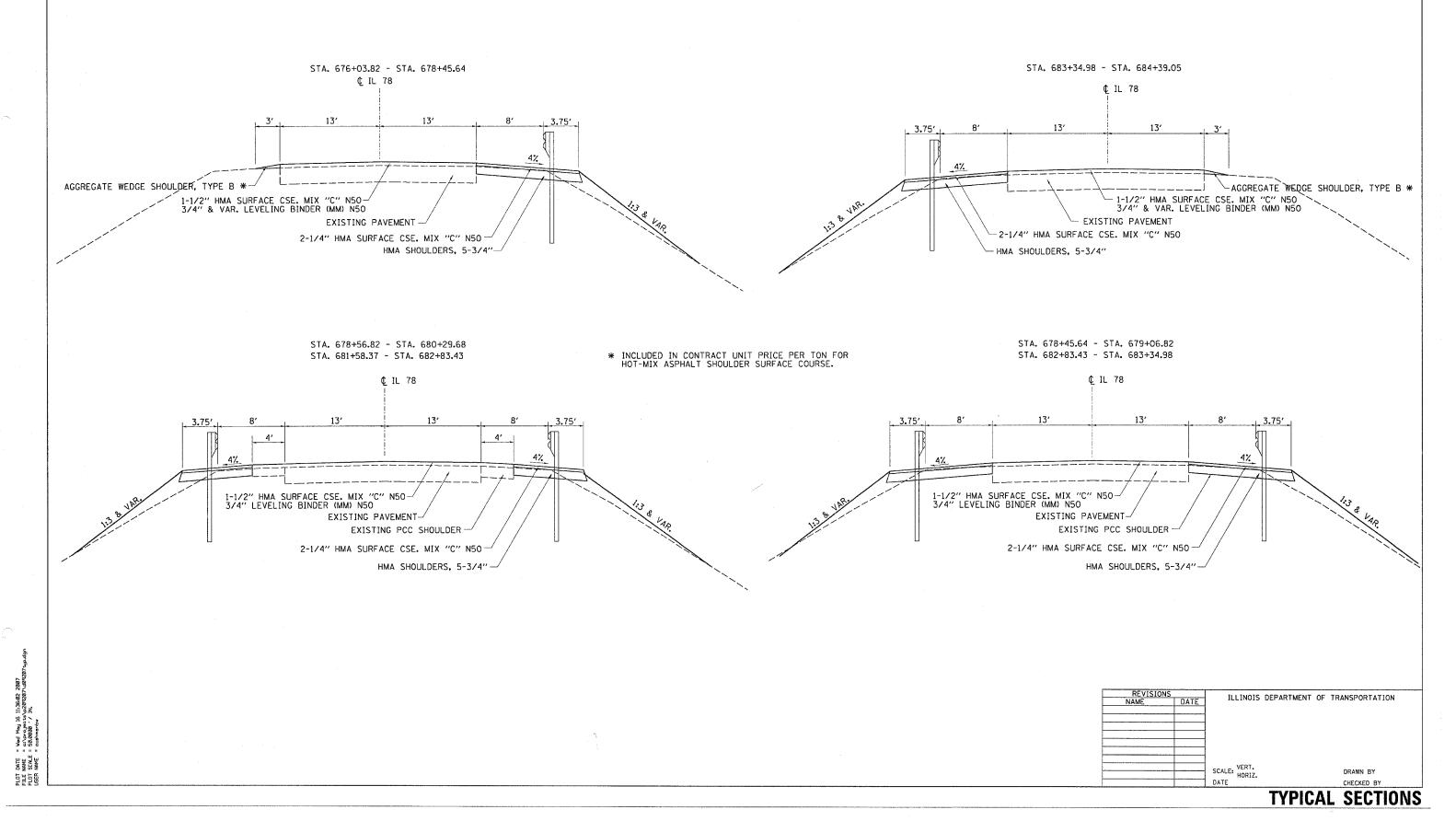
#### **COMMITMENTS**

- All work on the structures over Coal Creek shall be performed from the existing deck and no work shall take place below the existing structure on the ground nor in the creek bed.
- 2. No tree shall be removed.
- 3. No materials shall be placed below the structure.

Program #5 (Arch. Size) Enlarge 200% Enlarge 1079

| CONTRACT NO. 64D47
| F.A.P | SECTION | COUNTY | TOTAL SHEETS | NO. 22 | (125BR-2)D | HENRY | 34 | 4 |
| STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT |

# TYPICAL SECTIONS

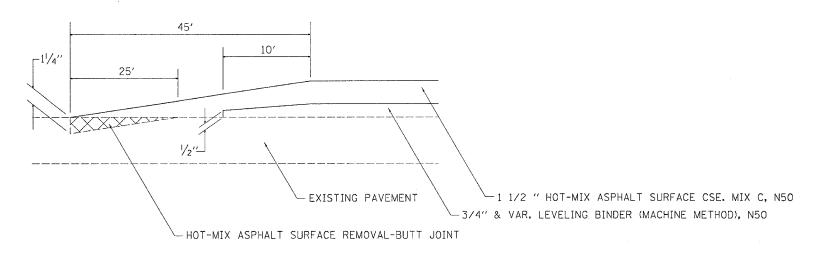


F.A.P.	SECTION	COUNTY		SHEET	
RTE.	SECTION	COUNTY	SHEETS	NO.	
22	(125BR-2)D	HENRY	34	5	
STA.		TO STA.			
FED. RO	ND DIST. NO. ILLIN	IOIS FED. AID	PROJECT		

# TYPICAL SECTIONS

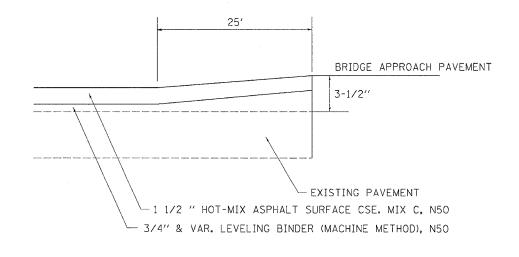
STA. 675+33.82 - STA. 676+03.82 STA. 683+69.05 - STA. 684+39.05

TYPICAL TAPER



STA. 680+05.80 - STA. 680+30.80 STA. 681+58.06 - STA. 681+83.06

TYPICAL TAPER TRANSITION

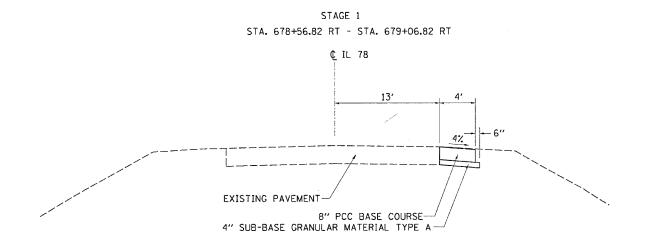


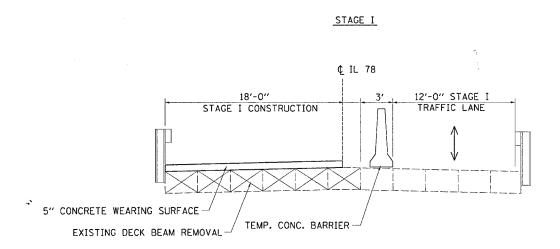
REVISIONS		TI L INOTE	DEDADTMENT	٥٣.	TRANSPORTATION	
NAME	DATE	ILLINOIS	DEPARTMENT	UF	I RANSPUR I A I IUN	
		SCALE: VERT.			DRAWN BY	
		DATE HURIZ.			CHECKED BY	

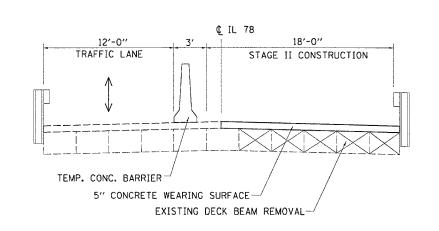
TYPICAL SECTIONS

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

# STAGING TYPICAL SECTIONS







STAGE II

REVISIONS
NAME

DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.

SCALE: VERT.

HORIZ.

DATE

DATE

CHECKED BY

	RIE.	52511677			SHEE	:15	N
	22	(125BR-2)		HENRY	3-	4	
	STA.			STA.			
	FED. RO		ILLINOIS	FED. AI	D PROJ	ECT	

# SCHEDULE OF QUANTITIES

44000700	APPROACH SLAB REMOVAL								
	SQ YD	LOCATION							
	6.8.5	IL 78	680	+	30.80	-	680	+	54.7
	68.5		681	+	34.33		681	+	58.0
	137	TOTAL						_	

20200100	EARTH EXCAVATION					68.5 68.5 137 TOTAL	680 + 30.80 - 680 + 54.72 681 + 34.33 - 681 + 58.06
	CU YD LOCATION				63000000	STEEL PLATE BEAM GUARDRA	TI TYPE A
	IL 78 	675+33.82 -	684+ 39.05		6300000	FOOT LOCATION IL 78	
20400800	FURNISHED EXCAVATION					350.00 RT 37.50 LT 137.50 LT 525.00 TOTAL	676 + 36.24 - 679 + 86.23 679 + 46.74 - 679 + 84.24 681 + 67.79 - 683 + 42.78
	CU YD LOCATION IL 78	675 + 33.82 -	684+ 39.05		63100087	TRAFFIC BARRIER TERMINAL.	TYPE 6A
25100630	EROSION CONTROL BLANKET					EACH LOCATION IL 78 1 RT	679+86.23 - 680+31.82
	SO YD LOCATION IL 78 500 RT	677+00 -	679+ 00			1 LT 1 RT 1 LT 4 TOTAL	679+84.24 - 680+29.83 681+57.98 - 682+03.56 681+58.30 - 682+03.88
28000300	500 TOTAL  TEMPORARY DITCH CHECK				63100167	TRAFFIC BARRIER TERMINAL	TYPE I. SPECIAL (TANGENT)
2000000	EACH LOCATION IL 78					EACH LOCATION IL 78 1 RT	675+86.24 - 676+36.24
	1.00 RT RT 2.00 TOTAL	676 + 00 677 + 00				1 LT 1 RT LT 4 TOTAL	678+96.79 - 679+46.74 682+03.56 - 682+53.56 683+41.38 - 683+91.38
28000400	PERIMETER EROSION BARRIER				67000740	CHARRENT PENOVAL	
	EOOT LOCATION IL 78 200 RT 100 LT 300 TOTAL	677+50 - 678+50 -	679+ 50 679+ 50		63200310	GUARDRAIL REMOVAL  FOOT LOCATION  IL 78  300 RT  125 LT  75 RT	677+24.19 - 680+25.61 678+99.04 - 680+25.46 681+61.78 - 682+38.28
31100300	SUB-BASE GRANULAR MATERIAL.	. TYPE A 4"				150LT 650 TOTAL	683 + 42.78 - 683 + 92.78
	SO YD LOCATION IL 7825 RT 25 TOTAL	678+56.82 -	679+ 06.82		63500105	DELINEATORS  EACH LOCATION	
35300300	PORTLAND CEMENT CONCRETE B.	ASE COURSE 8"	1		· · · · · · · · · · · · · · · · · · ·	IL 78  1 RT  1 LT  1 RT	675+84.40 678+97.21 682+42.17
	SO YD LOCATION IL 78 22 RT 22 TOTAL	678+56.82 -	679+ 06.82	2001400 BRIDGE APPROACH PAVEMENT (SPECIAL)  SQ YD LOCATION  IL 78		1 RT 1 LT 4 TOTAL	682+ 42.17 683+ 92.78
	IOTAL			68.5 680 + 30.6 68.5 681 + 34.5 137 TOTAL	0 - 680 + 54.72 3 - 681 + 58.06		

		CC	NTR/	ACT	NO.	541	047
F.A.P. RTE.	SECTION	1	COUNTY			IL TS	SHEET NO.
22 (125BR-		2)D	HENRY		34		8
STA.		TO	STA.				
FED. ROA	D DEST. NO.	ILLINOIS	FED.	AID	PROJE	СТ	***************************************

# SCHEDULE OF QUANTITIES

70300520	PAVEMENT MARKING TAPE TYPE III	<u>. 4''</u>	•	78200410	GUARDRAIL MARKERS, TYPE A	
	FOOT LOCATION				EACH LOCATION	
	IL 78 343 RT 749 LT 773 RT 378 LT 2,243 TOTAL	677+34.57 - 684+83.50 677+15.43 - 684+88.24	STAGE I (WHITE) STAGE I (WHITE) STAGE II (WHITE) STAGE II (WHITE)		IL 78 4 RT 4 LT 4 LT — 4 RT 16 TOTAL	676+33.67 - 680+52.78 679+47.24 - 680+53.26 681+35.81 - 681+91.99 681+36.39 - 683+42.77
70300570	PAVEMENT MARKING TAPE TYPE III	. 24''		78201000	TERMINAL MARKER - DIRECT APPL	IED
	FOOT LOCATION IL 78				EACH LOCATION IL 78	
	12 RT 12 LT 24 TOTAL	676 + 99.85 685 + 00.33	STOP BAR, STAGE 1 (WHITE) STOP BAR, STAGE 1 (WHITE)		1 RT 1 LT 1 RT	675+84.40 678+97.24 682+42.28 683+92.60
70301000	WORKZONE PAVEMENT MARKING REM	MOVAL			4 TOTAL	
	SO FT. LOCATION IL 78			78300100	PAVEMENT MARKING REMOVAL	
	250 LT 258 RT 126 LT 24 RT 24 LT 681 TOTAL	677+34.57 - 684+83.05 677+15.43 - 684+88.24 679+04.59 - 682+82.67 676+99.85 - 685+00.33 -	STAGE I STAGE II STAGE II (WHITE) STOP BAR STOP BAR		SQFT LOCATION IL 78 267 STA. 115 STA. 382 TOTAL	677+00 - 685+00 (CENTERLINE) 679+03.13 - 682+46.43 RT (STAGE I)
70400100	TEMPORARY CONCRETE BARRIER			Z0030250	IMPACT ATTENUATORS, TEMPORARY	(NON-REDIFECTIVE), TEST LEVEL 3
70400100	FOOT LOCATION IL 78 400 LT 400 TOTAL	679+12.69 - 683+12.32			EACH LOCATION IL 78 1 LT 1 LT 2 TOTAL	679+12.69 STAGE 1 683+12.32 STAGE 1
70400200	RELOCATE TEMPORARY CONCRETE B	ARRIER		Z0030350	IMPACT ATTENUATORS, RELOCATE	(NON-REDIFECTIVE), TEST LEVEL 3
	FOOT LOCATION IL 78 400 RT 400 TOTAL	678+87.68 - 682+87.31			EACH LOCATION IL 78 1 RT 1 RT 2 TOTAL	678+87.68 STAGE 2 682+87.31 STAGE 2
78001110	PAINT PAVEMENT MARKING - LINE	4" (TWO COATS)				
	EOOT LOCATION IL 78 500 STA. 2000 RT STA 2000 LT STA 4500 TOTAL	675+00 - 685+00 675+00 - 685+00 675+00 - 685+00	(YELLOW SKIP DASH) (WHITE EDGE LINE) (WHITE EDGE LINE)			

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 F.A.	P.	SE	CTION	ı		COUN.	ΓY	TOTAL	SHEET NO.
22 (125		5BR-2	R-2)D HENRY			łΥ	34	9	
STA.					TO	STA.			
EED	BUYU	DICT	MO	11 6 31	NOTE	CED	AID	PPO ICCI	

# BITUMINOUS SCHEDULE

					40600625	40600982	48203020	40603310	40600990
STATION TO STATION	REMARKS	LENGTH (FT)	WIDTH (FT)	TOTAL AREA (SY)	LEVELING BINDER (MM) N50	HMA SURFACE REMOVAL BUTT JOINT (SQ YD)	HMA SHOULDERS, 5-3/4" (SQ YD)	HMA SURFACE COURSE MIX''C'' N50 (TON)	TEMPORARY RAMP (SQ YD)
STA. 675+33.82 - 680+31.83	SHOULDER RT	498.01	11.75	573,33	(TON)	(SQ TD)	573.33	72.24	(SQ 1D)
	SHOULDER LT	184.19	11.75	168.22			168.22	21.20	
STA. 681+57.98 - 683+34.98	SHOULDER RT	177	11.75	144.11			144.11	18.16	
STA. 681+58.13 - 684+39.05	SHOULDER LT	280.92	11.75	292.22			292.22	36.82	
STA. 675+33.82 - 675+78.82	BUTT JOINT	45	26	132.00		73.00		11.09	
STA. 683+94.05 - 684+39.05	BUTT JOINT	45	26	132.00		73.00		11.09	
STA. 675+78.82 - 680+30.80	MAINLINE	451.98	35	1355.00	75.88			113.82	
STA. 681+58.06 - 683+94.05	MAINLINE	235.99	34	690.00	38.64			57.96	
STA. 680+43.72 - 680+54.57	TEMP. RAMP	11	33	40.04					40.04
STA. 681+34.33 - 681+45.33	TEMP. RAMP	11	33	40.04					40.04
TOTAL QUA	ANTITY	1,940	٦	3,567	115	146	1,178	342	80

BITUMINOUS SCHEDULE

Beginning chain RTE78 description

# HORIZONTAL & VERTICAL CONTROL

POT Sta 895+96.43

CONTROL POINT

-CONTROL POINT

PC Sta 633+08.42

PT Sta 568+00.50 PRC Sta 563+99.95

PC Sta 559+99.40

POT Sta 552+87.59

102

PT Sta 665+47.11

BENCH MARK

PC Sta 650+70.09

PT Sta 647+83.14

# 420

CONTRACT NO. 64D47 F.A.P. SECTION COUNTY TOTAL SHEETS NO. 22 (125BR-2)D HENRY 34 10

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

Point 3 N 1,722,818.6068 E 2,368,441.1452 Sta 552+87.59

Course from 3 to PC 240 359° 29' 34.03" Dist 711.8061

Curve Data

Curve 240 P.I. Station 561+99.69 N 1,723,730.6727 E 2,368,433.0709 Delta = 2° 00′ 10.09″ (LT) Degree = 0° 30′ 00.05″ Tangent = 200,2956 Length = 400.5503' Radius = 11,458.8606 External = 1.7504' Long Chord = 400.5300' Mid. Ord. = 1.7501' P.C. Station 559+99.40 N 1,723,530.3850 E 2,368,434.8440 P.T. Station 563+99.95 N 1,723,930.7761 E 2,368,424.2991

E 2,356,976.4324

Curve Data

N 1,723,428.9464

Curve 250 P.I. Station 566+00.24 N 1,724,130.8795 E 2,368,415.5274 Delta = 2° 00′ 10.09′′ (RT) Degree = 0° 30′ 00.05″ Tangent = 200.2956' Length = 400.5503' Radius = 11,458.8612 External = 1.7504' Long Chord = 400.5300' Mid. Ord. = 1.7501' P.C. Station 563+99.95 N 1,723,930.7761 E 2,368,424.2992

Course from PT 250 to PC 260 359° 29' 34.03" Dist 6,507.9276'

E 2,368,413.7543

Curve Data

P.T. Station 568+00.50 N 1,724,331.1672

C.C. N 1,724,432.6058 E 2,379,872.1665

Curve 260 P.I. Station 640+84.72 N 1,731,615.1094 E 2,368,349.2712 Delta = 44° 13′ 50.07″ (LT) Degree = 2° 59′ 57.32″ Tangent = 776.3000' Length = 1,474.7189 Radius = 1,910.3340' External = 151.7081 Long Chord = 1,438.3725 Mid. Ord. = 140.5467' P.C. Station 633+08.42 N 1.730.838.8398 E 2,368,356.1434 P.T. Station 647+83.14 N 1,732,166.5427 E 2,367,802.8620 C.C. N 1,730,821.9286 E 2,366,445.8843

Course from PT 260 to PC 270 315° 15' 43.95" Dist 286.9438'

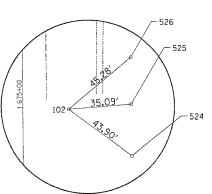
Curve Data

\*----Curve 270 P.I. Station 658+47.75 N 1,732,922.7692 E 2,367,053.5257 Delta = 44° 18′ 38.00″ (RT) Degree = 3° 00′ 00.00″ Tangent = 777.6610' Length = 1,477.0191' Radius = 1,909.8600' External = 152.2559' Long Chord = 1,440.4852' Mid. Ord. = 141.0141' P.C. Station 650+70.09 N 1,732,370.3691 E 2,367,600.8928 E 2,367,047.7269 P.T. Station 665+47.11 N 1.733.700.4086 C.C. N 1,733,714.6497 E 2,368,957.5339

Course from PT 270 to 4 359° 34' 21.95" Dist 23,049.3221'

Point 4 N 1.756,749.0899 E 2,366,875.8571 Sta 895+96.43

Ending chain RTE78 description



528 32.38′-527

529 -

HORIZONTAL CONTROL POINT NO. 102

HORIZONTAL CONTROL POINT NO. 103

CONTROL POINTS							
POINT	POINT NORTH EAST ELEVATION CHAIN STATION OFFSET DESCRIPTION					DESCRIPTION	
102	1734652.1273	2367066.3686	622.8965	RTE78	674+98.66	25.7377' RT	GPS CONTROL POINT, PIN
103 1735832.5671 2367010.5208 618.5474 RTE78 686+79.48 21.3064' LT GPS CONTROL POINT, PIN							

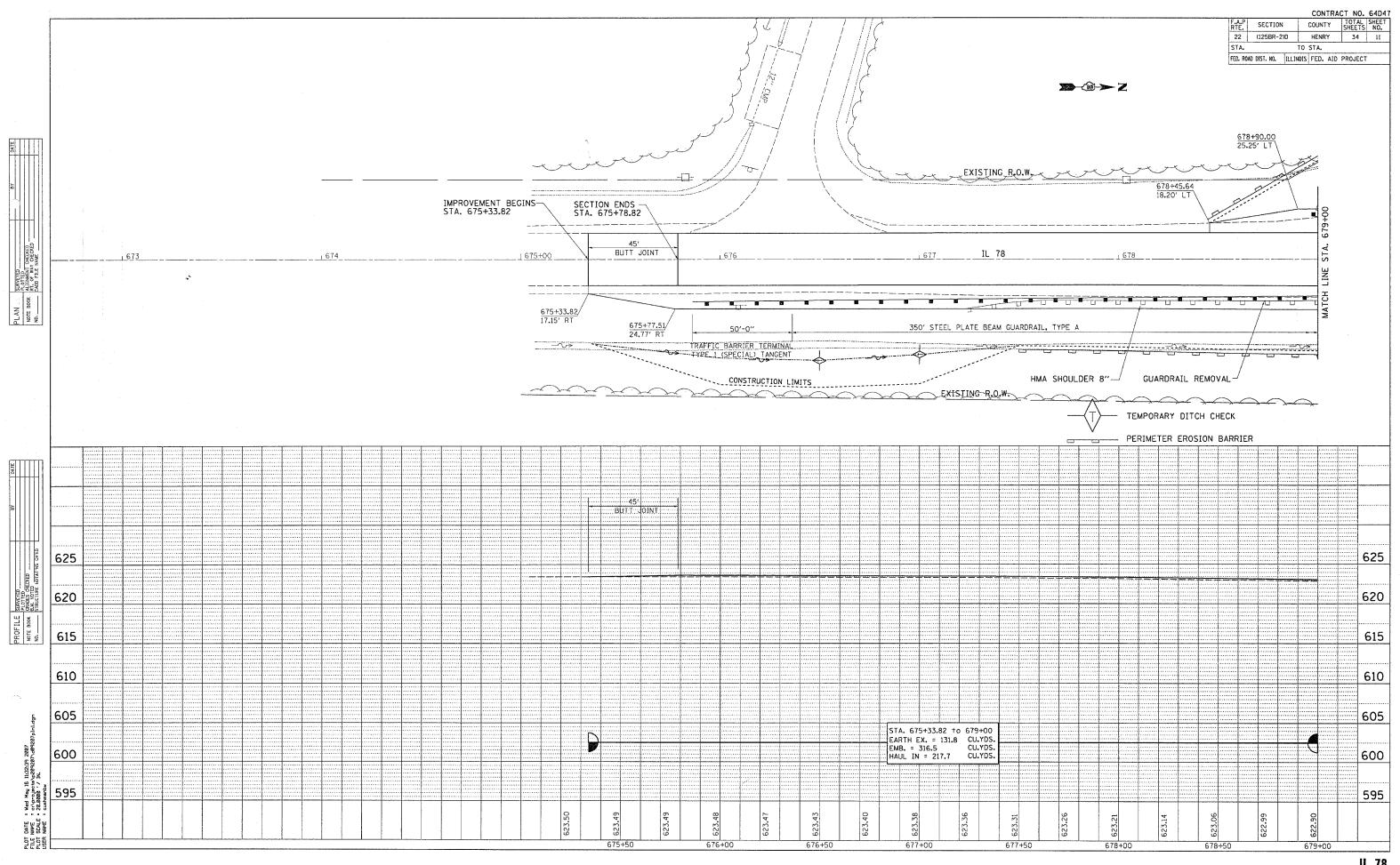
SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
123	1735195.5717	2366963.6442	620.0700	RTE78	680+42.85	72.9316' LT	TRAVERSE STATION, PIN
124	1735188.3796	2367107.4495	621.4300	RTE78	680+34.59	70.8161' RT	TRAVERSE STATION, PIN

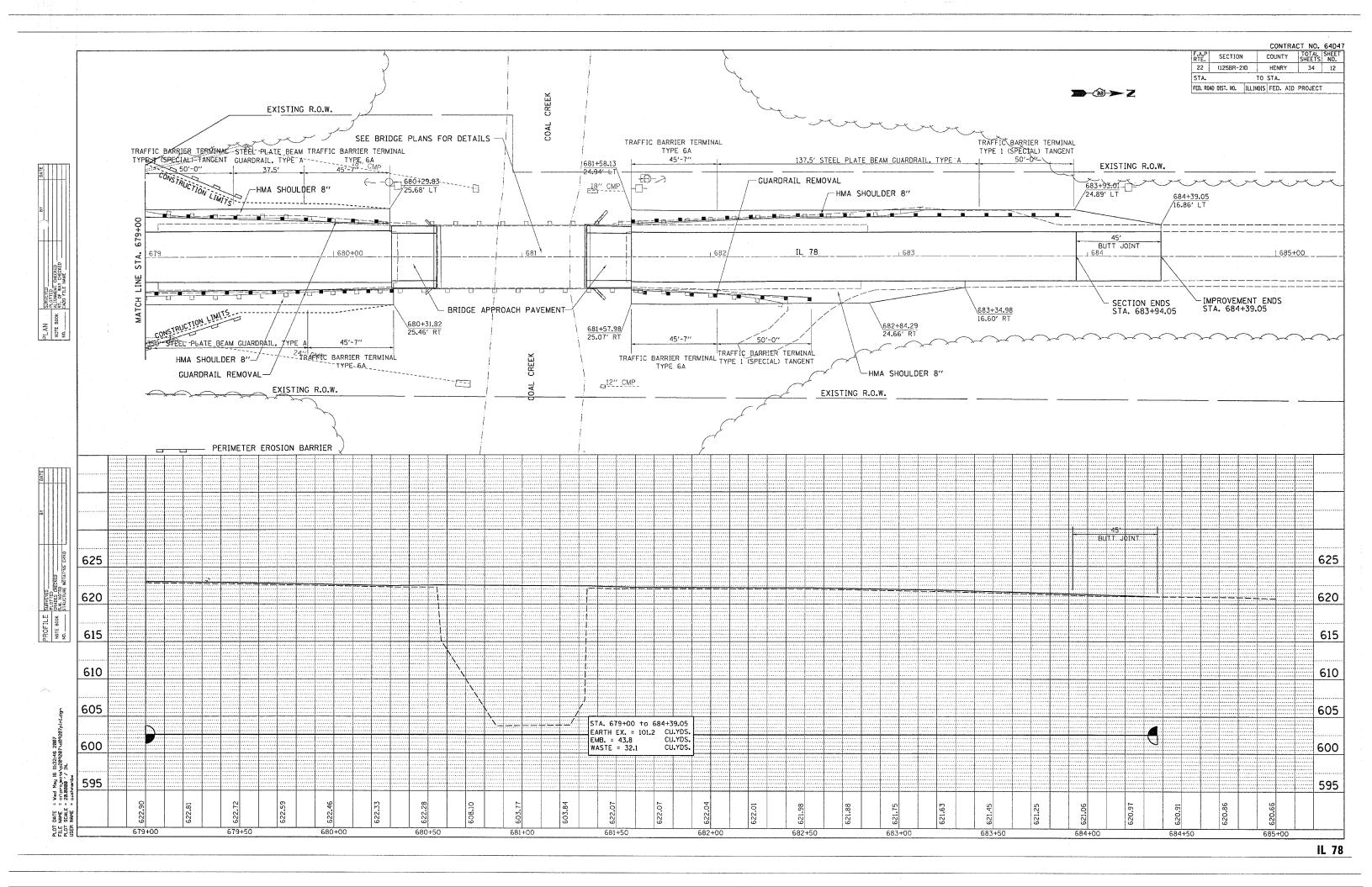
BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
420	1735203.9252	2367054.3269	620.6416	RTE78	680+50.5318	17.8109' RT	ABUTMENT, CHISELED "X"

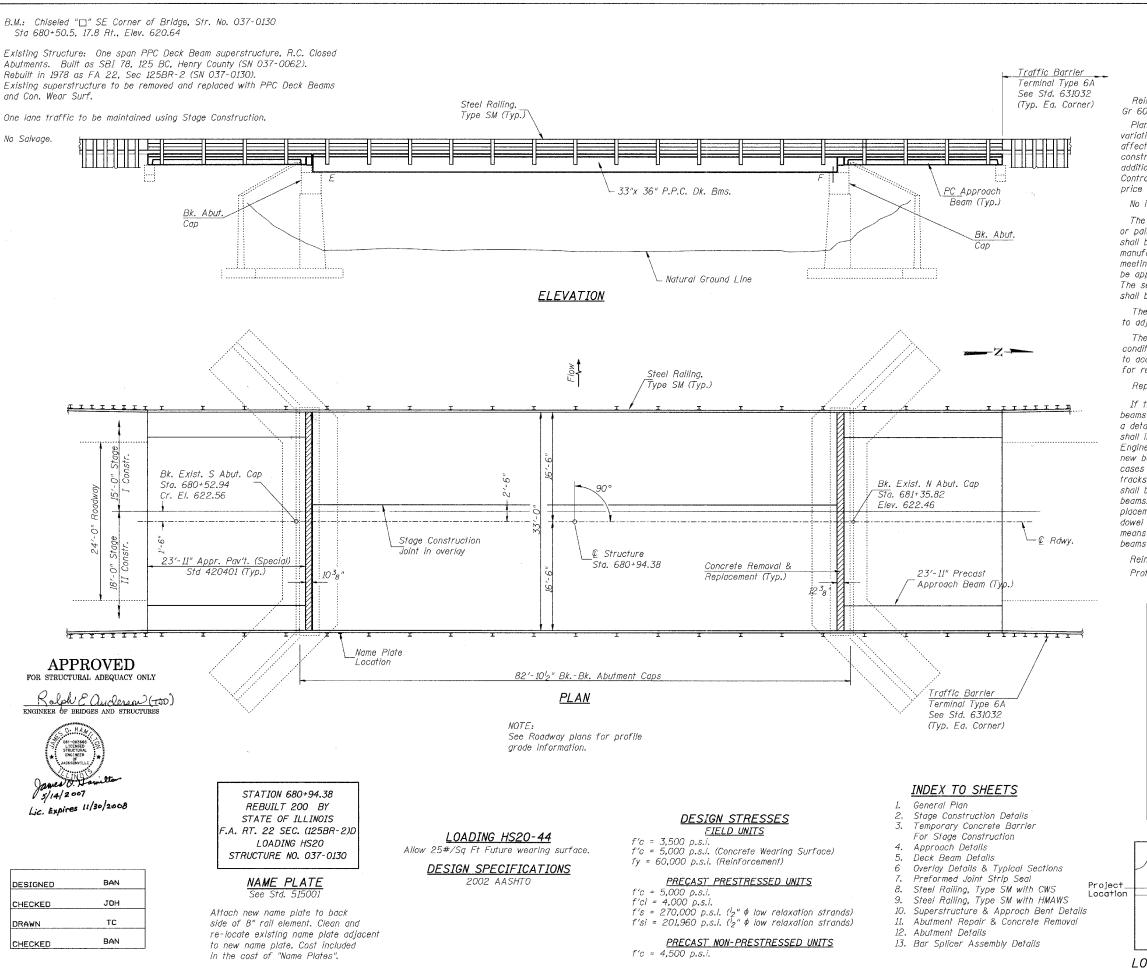
	REFERENCE TIES						
POINT	CHAIN	STATION	OFFSET	DESCRIPTION			
524	RTE78	674+72.44	60,9423' RT	SHOULDER, PIN			
525	RTE78	675+01.13	60.7434' RT	SHOULDER, PIN			
526	RTE78	675+27.55	60.6093' RT	SHOULDER, PIN			
527	RTE78	686+52.18	38.7217' LT	SHOULDER, PIN			
528	RTE78	686+79.87	37.272' LT	POWER POLE, PK NAIL			
529	RTE78	687+02.65	37.8451' LT	SHOULDER, PIN			

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
RTE78	240	240	241	242	243
RTE78	250	250	251	252	253
RTE78	260	260	261	262	263
RTE78	270	270	271	272	273

REVISIONS	THE INOTE	DEDADTMENT	OE.	TRANSPORTATION
NAME DATE	ILLINO13	DEFARTMENT	OF	TRANSPORTATION
	SCALE: VERT.			BOARN BY
	HORIZ.			DRAWN BY
	DATE			CHECKED BY







\*(125BR-2)D

CONTRACT NO. 64D47

SHEET NO. 1

#### 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.

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.

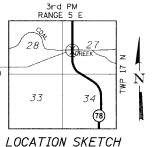
If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois 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 the transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and suring the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

Reinforcement bars designated (E) shall be epoxy coated.

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	-	1
Removal of Existing Precast Concrete Unit	Sq. Ft.	359	-	359
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2,618	-	2,618
Precast Concrete Bridge Slab	Sq. Ft.	359	-	359
Protective Coat	Sq. Yd.	299	-	299
Reinforcement Bars, Epoxy Coated	Pound	3,720	1,000	4,720
Steel Railing, Type SM	Foot	259	-	259
Concrete Wearing Surface, 5"	Sq. Yd.	291	-	291
Bridge Deck Grooving	Sq. Yd.	273	-	273
Structure Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	-	7	7
Name Plates	Each	1	-	1
Bar Splicers	Each	80	12	92
Asbestos Bearing Pad Removal	Each	11	-	11
Concrete Structures	Cu. Yd.	-	5.8	5.8
Concrete Removal	Cu. Yd.	-	4.5	4.5
Preformed Joint Strip Seal	Ft.	33	-	33



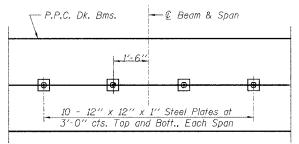
GENERAL PLAN
F.A.P. 22 (ILL 78) OVER
COAL CREEK
SECTION (125BR-2)D
HENRY COUNTY
STATION 680+94.38
STR. NO. 037-0130

HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

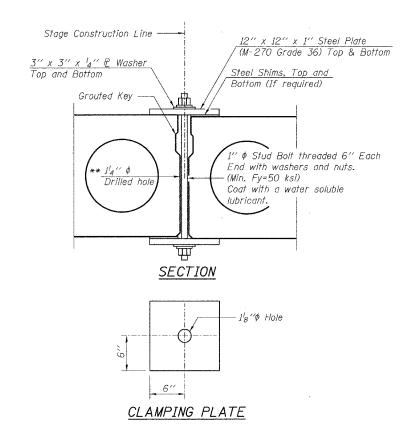


\*(125BR-2)D

CONTRACT NO. 64D47



#### PLAN



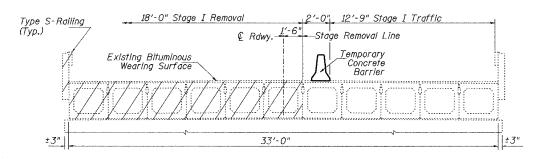
### SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.

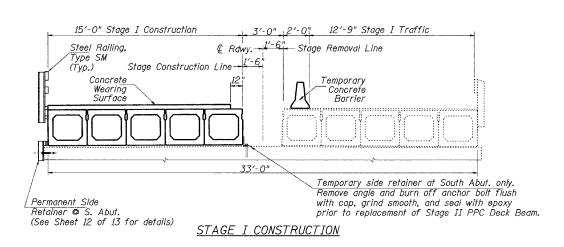
See Stage Construction Details for traffic lanes. Stage construction of precast prestressed concrete deck beams shall be according to Article 504.06(d) of the Standard Specifications.

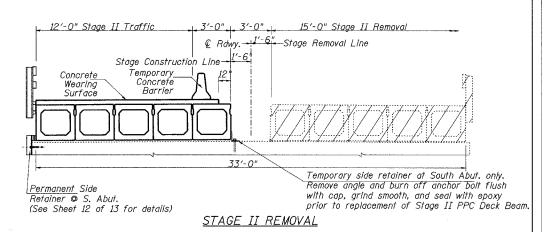
\*\* As an alternate to the drilled holes, the Contractor may request the Fabricator to cast 2" diameter semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts. If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

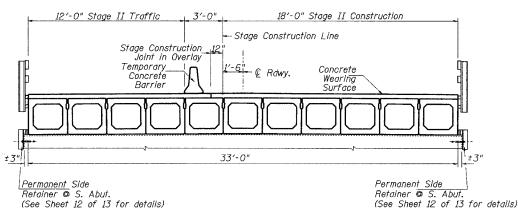
BAN
JOH
тс
BAN



#### STAGE I REMOVAL





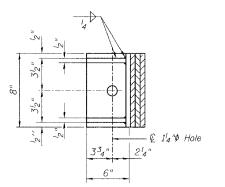


#### STAGE II CONSTRUCTION

#### Notes:

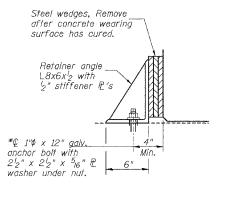
All cross-sections are looking North.
Hatched area indicates Removal
of Existing Superstructure.
For Temporary Concrete Barrier Details
see sheet 3 of 13.
Anchor bolts shall be ASTM F1554 all-

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.



## TEMPORARY RETAINER ANGLE PLAN

The retainers and hardware shall be galvanized after shop fabrication accordance to AASHTO MIII ASTM 385.



## TEMPORARY RETAINER ANGLE ELEVATION

\*Anchor bolts or approved threaded rod may be placed in drilled holes and grouted in place. Cost of retainers, accessories, and galvanizing are included with Precast Prestressed Concrete Deck Beams. STAGE CONSTRUCTION DETAILS
F.A.P. 22 (ILL 78) OVER
COAL CREEK
SECTION (125BR-2)D
HENRY COUNTY
STATION 680+94.38
STR. NO. 037-0130

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

TOTAL SHEET NO. HENRY 34 15 FED. ROAD DIST. NO. 7 ILLINOIS PROJECT

CONTRACT NO. 64D47

SHEET NO. 3 OF 13 SHEETS

\*(125BR-2)D

Temporary Concrete Barrier See Standard 704001 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 14" \$ Holes in existing See Detail I slab for 1"  $\phi$  x 11" dowel bars. or Detail II. Traffic side only. Cost included with Temporary Concrete Barrier.

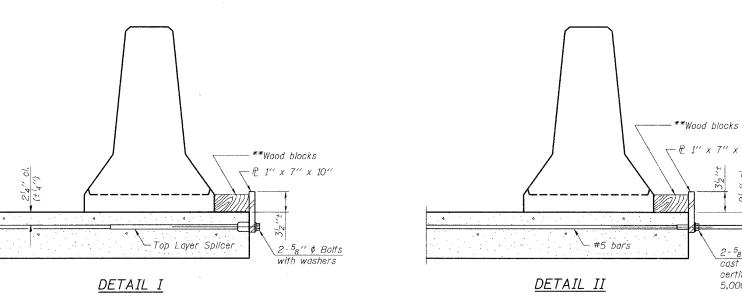
Stage construction line —

#### NEW SLAB

#### EXISTING SLAB

— Stage removal line

### SECTIONS THRU SLAB



10′′ Top bars spacing — © <sup>7</sup>8″ ¢ Holes --- \* € 1" x 1½" Notch

NOTES

screwed to coupler at approximate € of

Connect one (1) 1''x7''x10'' steel  $f_c^a$  to the concrete slab with  $2^{-5}g'' \notin Expansion$  Anchors

top layer of reinforcement at approximate © of

or cast in place inserts spaced between the

Detail I - With Bar Splicer or Couplers: Connect one (I) 1"x7"x10" steel R to the top layer of couplers with  $2^{-5}8$ "  $\phi$  bolts

each barrier panel. Detail II - With Extended Reinforcement Bars:

each barrier panel.

to be placed.

Extended #5 bars

 $2^{-5}8'' \phi$  Expansion Anchors or

cast in place inserts with a certified min. proof load of

5,000 Lbs.

Cost of anchorage is included with Temporary Concrete Barrier. The I'' 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

## 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.

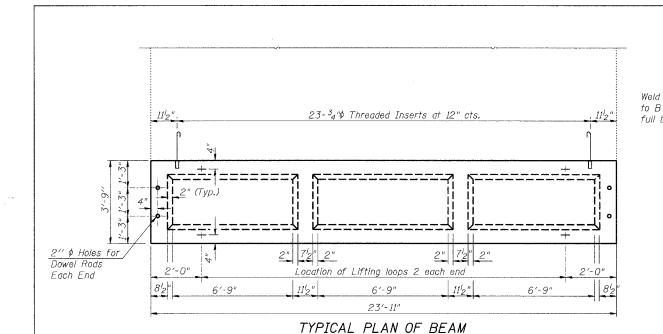
DESIGNED	BAN
CHECKED	JOH
DRAWN	TC
CHECKED	BAN

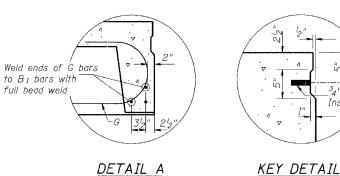
R-27 2244-125003

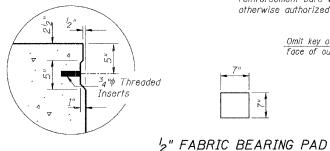
11-1-06

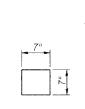
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION F.A.P. 22 (ILL 78) OVER COAL CREEK SECTION (125BR-2)D HENRY COUNTY STATION 680+94.38 STR. NO. 037-0130

> HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS









Omit key on exterior face of outside beams.

Tack welding of stirrups to bottom longitudinal

otherwise authorized in writing by the Engineer.

reinforcement bars will not be permitted except as FAP 22 \*

#3 5 #10 G

DETAIL A

The surface of the member shall not deviate more than 1/1200 of the full length of the member from a straight line connecting the two end points on the member's surface. In addition to State inspection and prior to erection, the beam shall be approved by the resident Engineer at the jobsite. The units shall remain on the bottom supporting

Existing App.

Hatched area indicates area of approach beam removal.

forms until the concrete has attained a compressive strength of not less than 3,500 pounds per square inch.

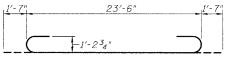
3-#4 B<sub>1</sub> bars

Precast concrete bridge slab shall meet the requirements of Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Concrete Bridge Slab.

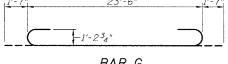
Removal costs

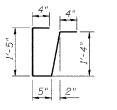
included with Removal of PC Unit

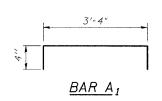
## SECTION THRU PRECAST UNIT



BAR G







TOTAL SHEET NO.

34 16

OF 13 SHEETS

CONTRACT NO. 64D47

- See Key Detail

HENRY

\*(125BR-2)D

BAR S

## TYPICAL APPROACH REMOVAL SECTION

BILL OF MATERIAL

ltem .	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	359
Removal of Existing Precast Unit	Sq. Ft.	359

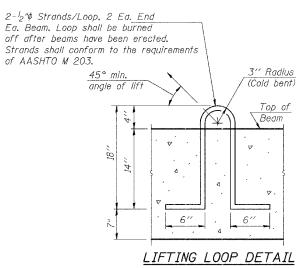
	39-#4 A <sub>1</sub> bars @ 9" cts.	78-#4 A bars © 4½" cts.
4-#4 B bars © 12" cts. (Top)		6-#4 B bars 6-6 6 crs.
	Reinforcement in Top of slab	Reinforcement in Bottom of slab

20 Spaces @ 12" cts. = 20'-0"

LONGITUDINAL SECTION

PLAN Showing Slab Reinforcement

DESIGNED	BAN
CHECKED	JOH
DRAWN	тс
CHECKED	BAN



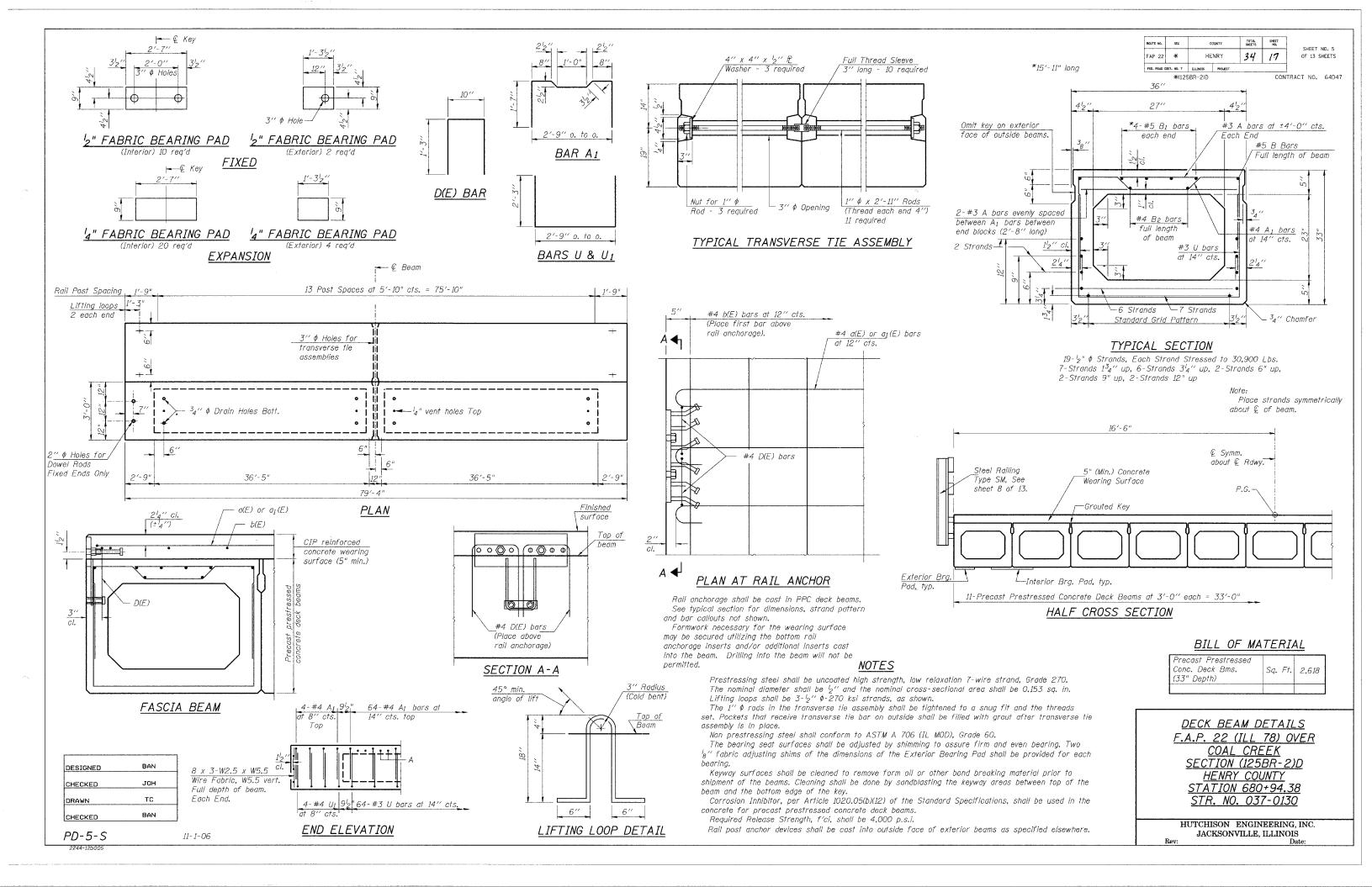
Approved alternate may be

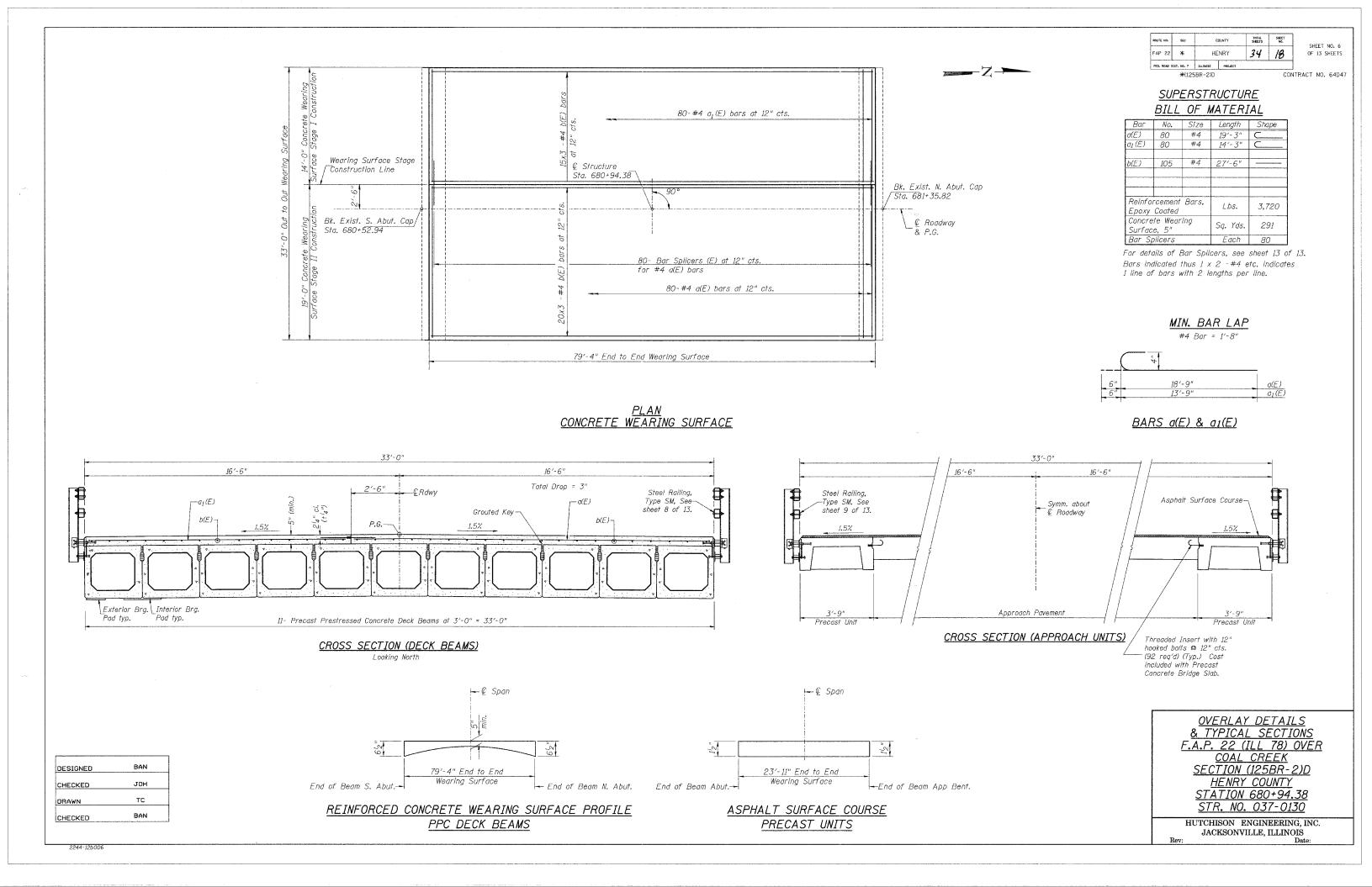
substituted for the above

APPROACH DETAILS F.A.P. 22 (ILL 78) OVER COAL CREEK SECTION (125BR-2)D HENRY COUNTY <u>STATION 680+94.38</u> STR. NO. 037-0130

HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

2244-125004





TOTAL SHEET NO. COUNTY 34 19 FAP 22 HENRY FED, ROAD DIST, NO. 7 ILLENDIS PROJECT

\*(125BR-2)D

CONTRACT NO. 64D47

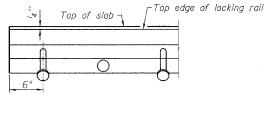
OF 13 SHEETS

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

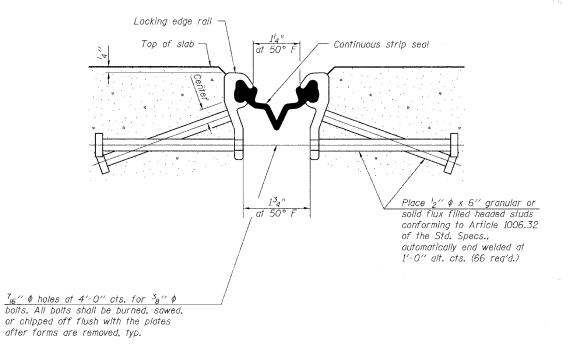
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

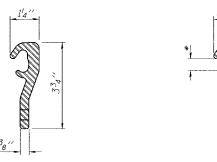
The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



TYPICAL END TREATMENT



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



LOCKING EDGE RAIL

LOCKING EDGE RAIL SPLICE

\* Omit weld at seal opening.

|--|

Item	Unit	Quantity
Preformed Joint Strip Seal	Foot	33

PREFORMED JOINT STRIP SEAL F.A.P. 22 (ILL 78) OVER COAL CREEK SECTION (125BR-2)D HENRY COUNTY STATION 680+94.38 STR. NO. 037-0130

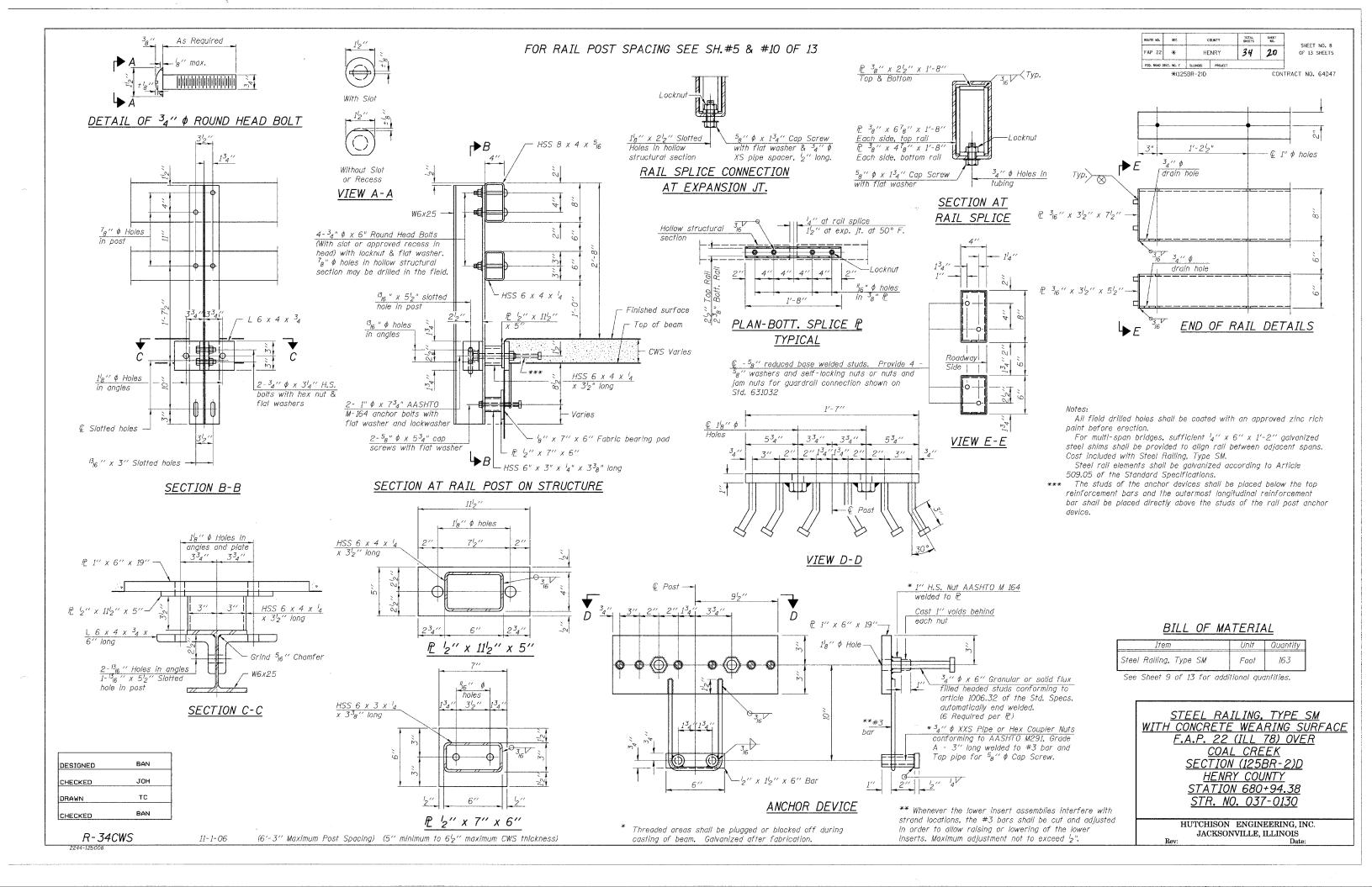
HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS

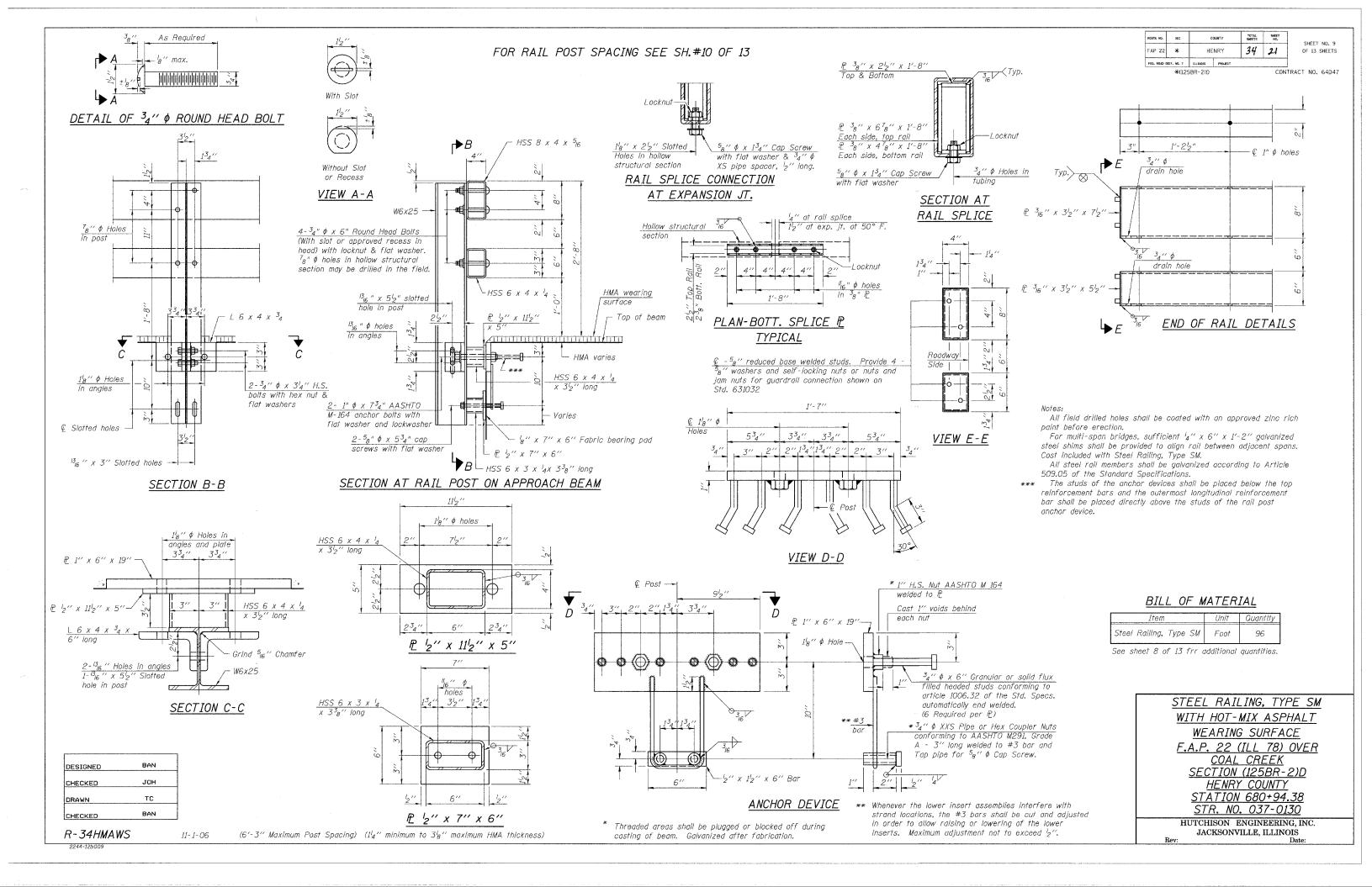
CHECKED TC DRAWN BAN CHECKED

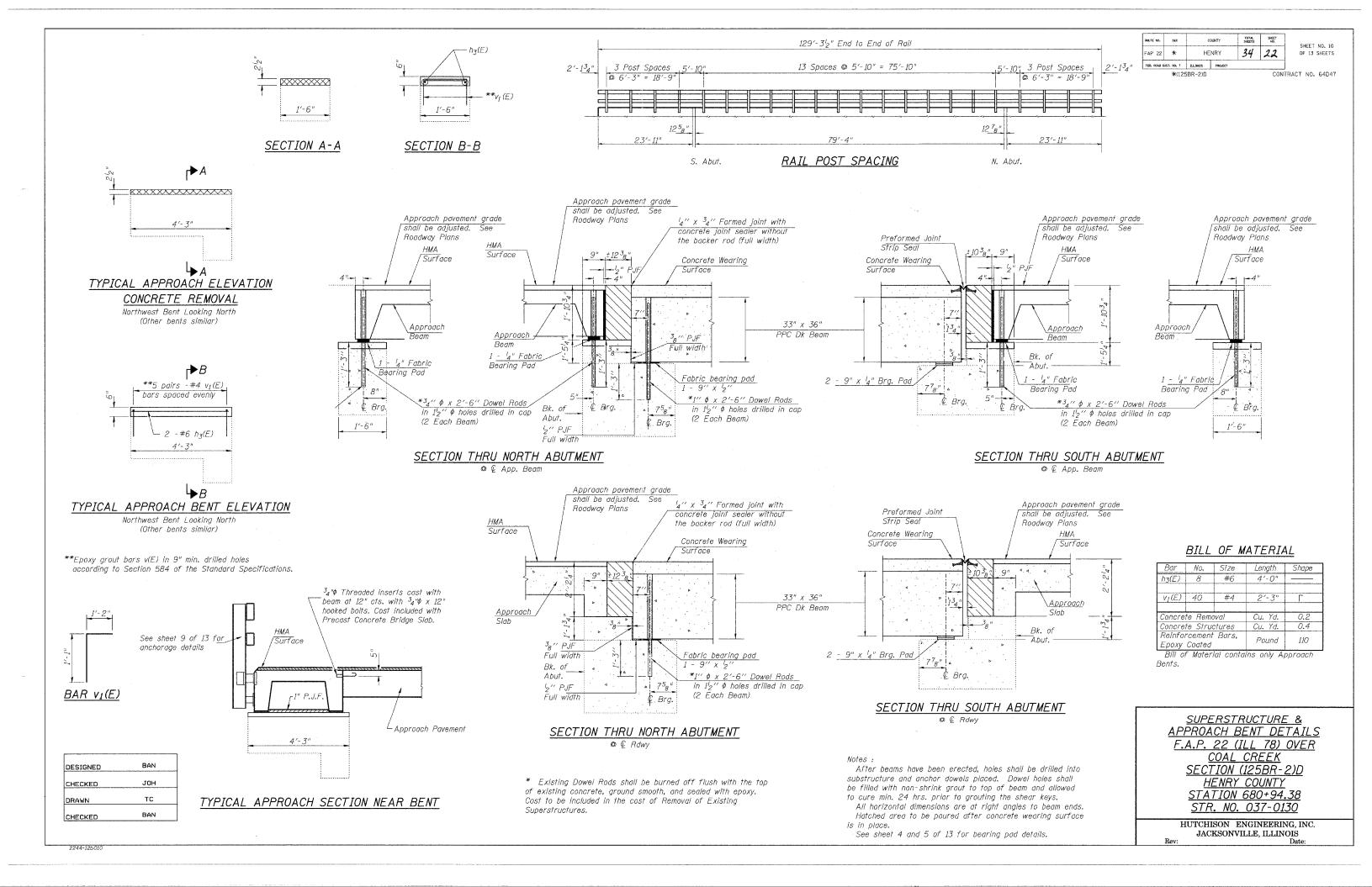
BAN

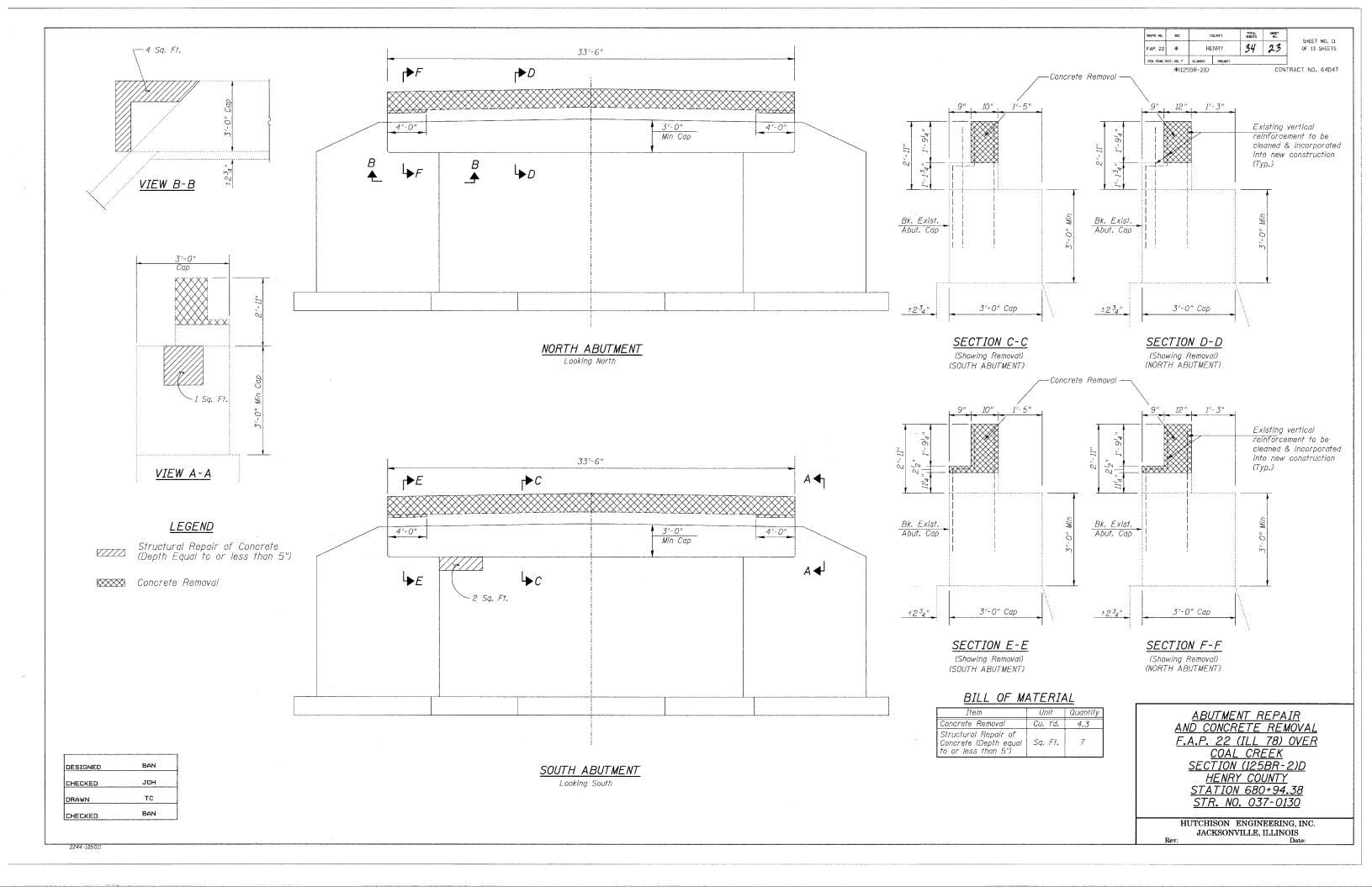
DESIGNED

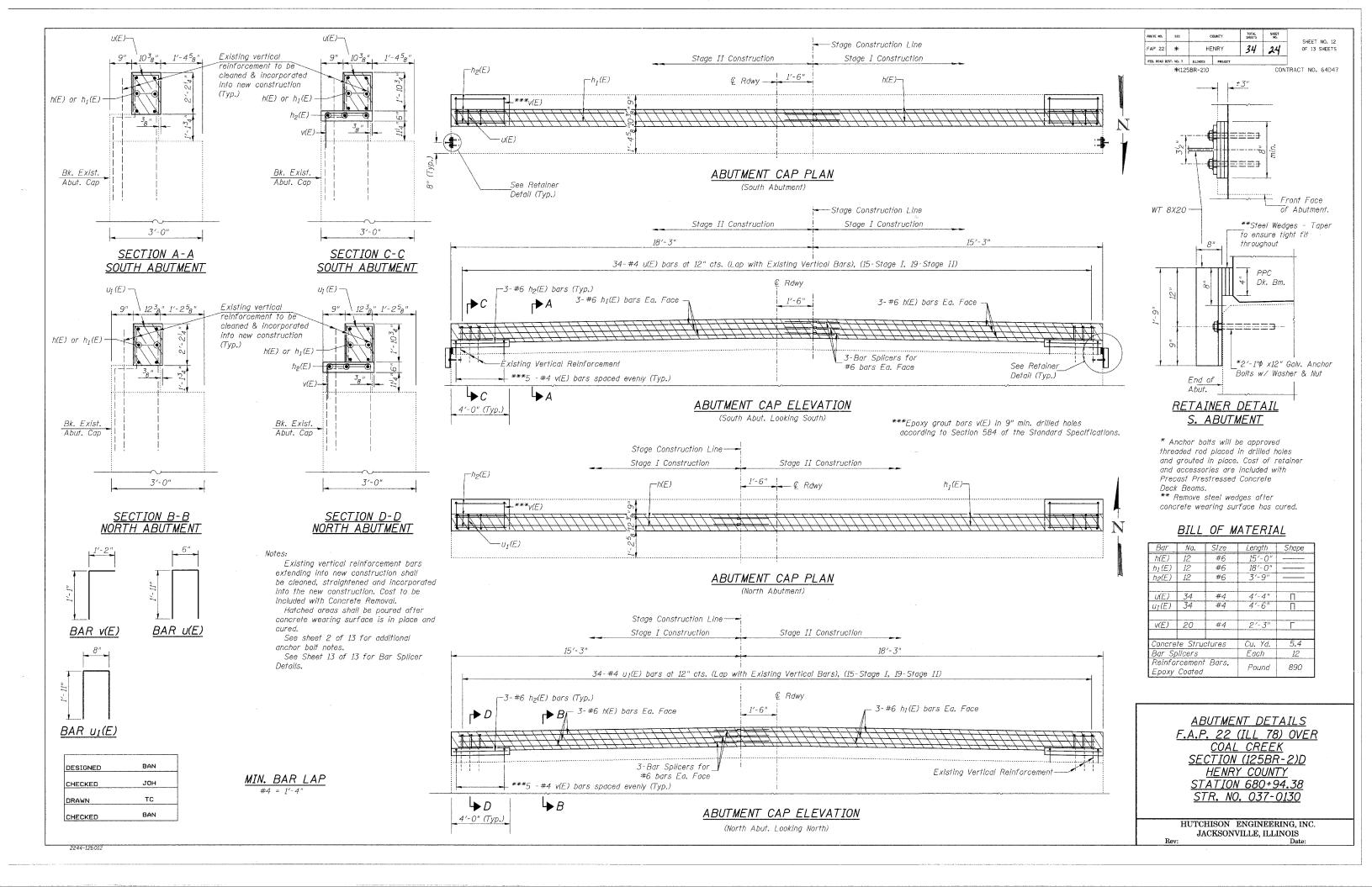
2244-125007

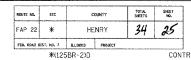












CONTRACT NO. 64D47

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:

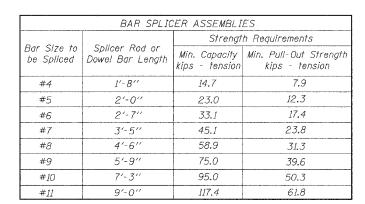
Minimum Capacity = 1.25 x fy x A<sub>t</sub>

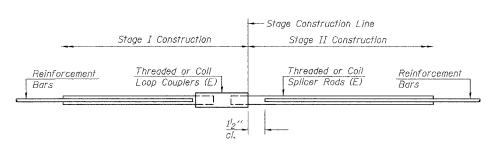
(Tension in kips) = 1.25 x fy x A<sub>t</sub>

Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>

Where fy = Yield strength of lapped reinforcement bars in ksi.  $A_t$  = Tensile stress area of lapped reinforcement bars.

\* = 28 day concrete



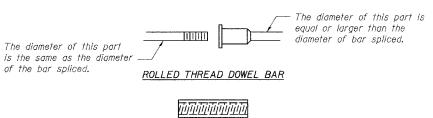


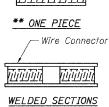
### STANDARD

Bar Size	No. Assemblies Required	Location		
#4	80	Conc. wear. Surf.		
#6	12	Abut, End Block		

BAR SPLICER ASSEMBLY DETAILS F.A.P. 22 (ILL 78) OVER COAL CREEK SECTION (125BR-2)D HENRY COUNTY STATION 680+94.38 STR. NO. 037-0130

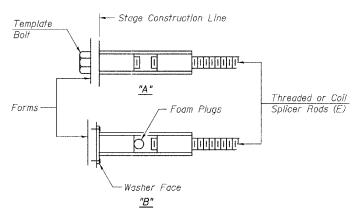
> HUTCHISON ENGINEERING, INC. JACKSONVILLE, ILLINOIS





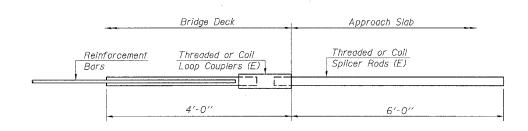
### BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* 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.

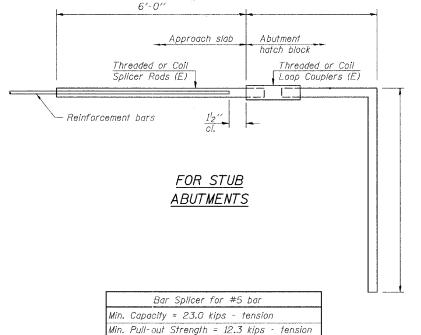


## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

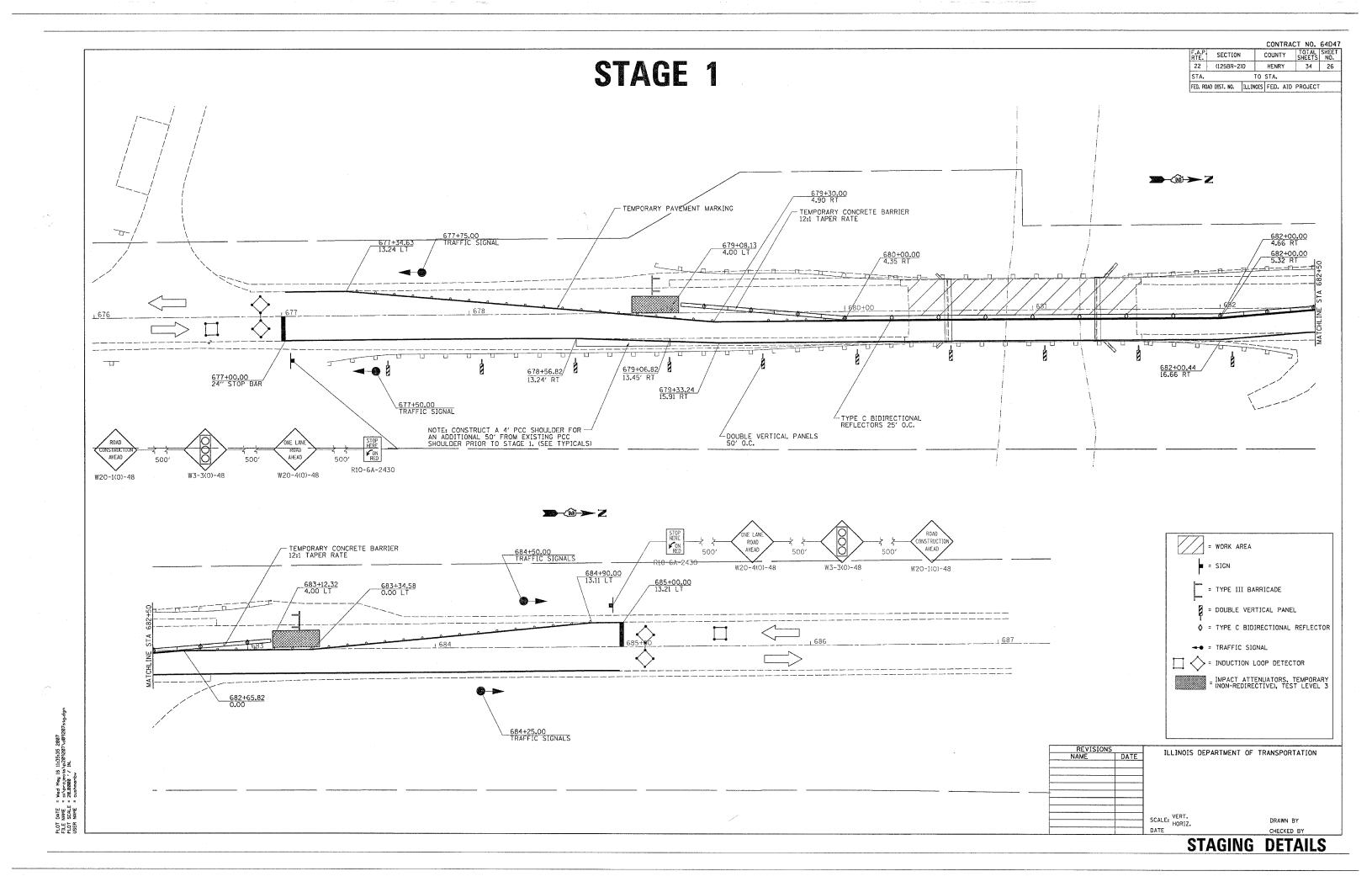
Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

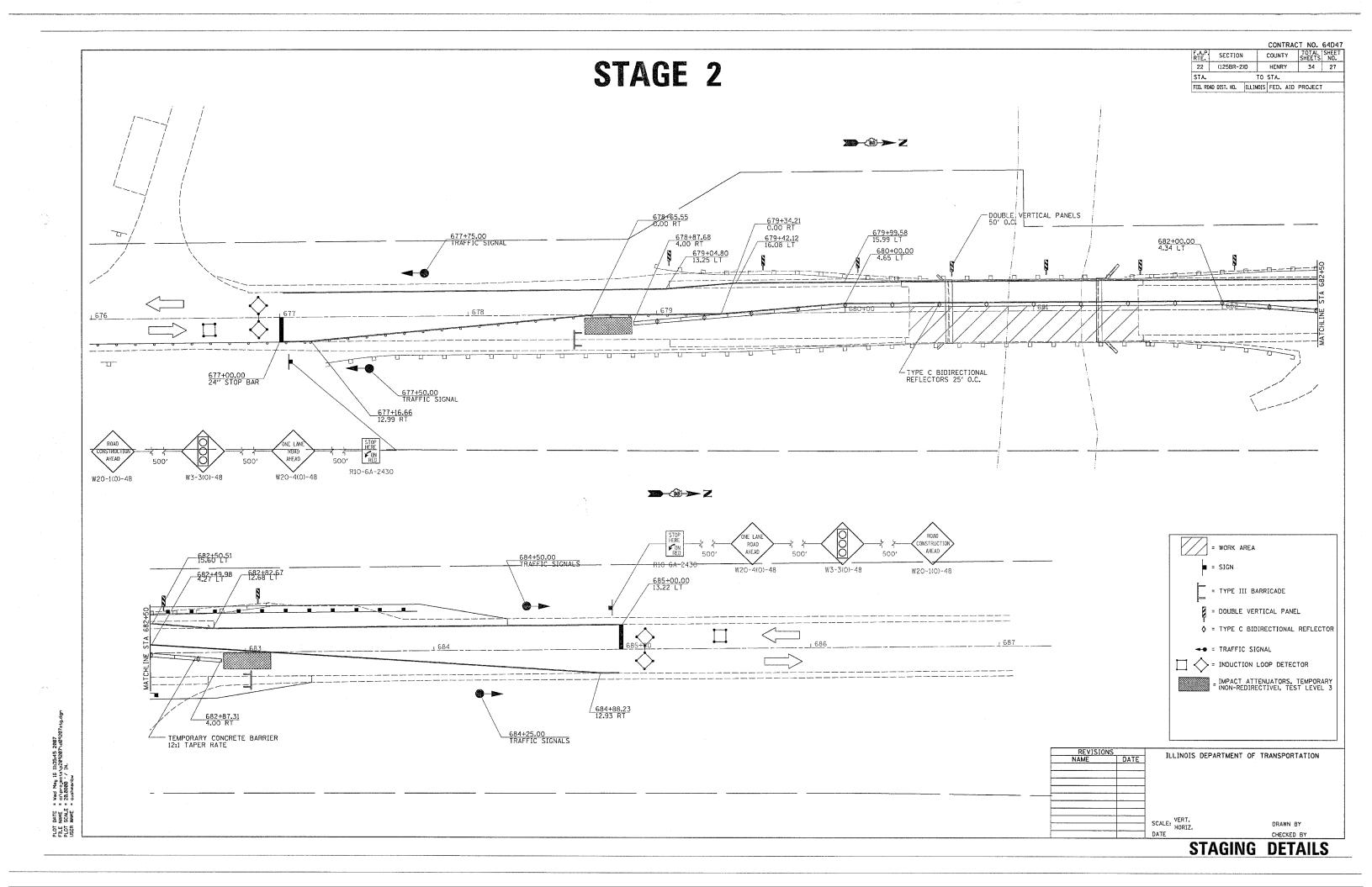
DESIGNED	BAN
CHECKED	JOH
DRAWN	TC
CHECKED	BAN

BSD-1



11-1-06





# HOT-MIX ASPHALT SHOULDER

HOT-MIX ASPHALT
SHOULDER PAY WIDTH

8" TOTAL SHOULDER THICKNESS

HOT-MIX ASPHALT SURFACE COURSE,
MIX "C", N50 #40603310

t = SEE TYPICAL SECTIONS FOR THICKNESS

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

#### GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

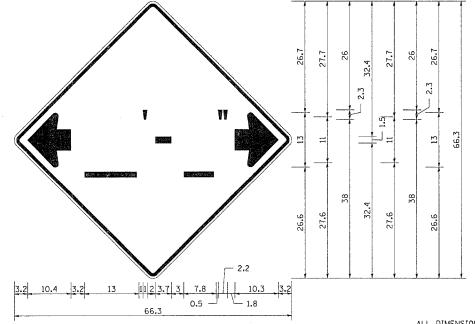
\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

HOT-MIX ASPHALT SHOULDER

23.4a

REVISED 10-06-06

# INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES

W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°

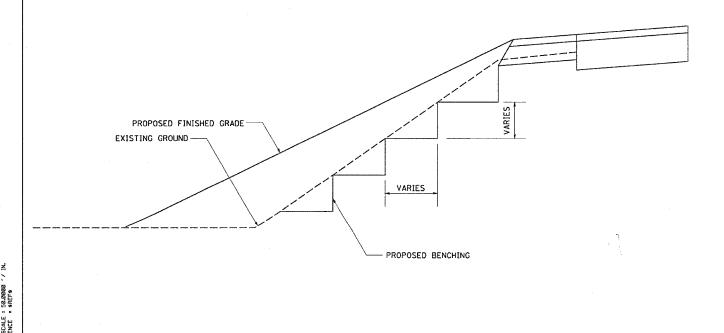
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

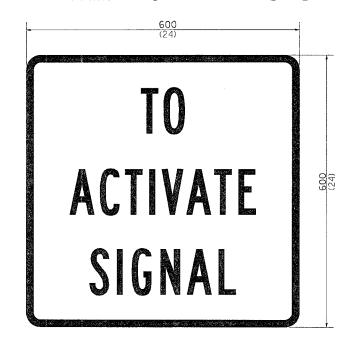
INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)

REVISED 6-29-05

# TYPICAL BENCHING ON EXISTING EMBANKMENT



# STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)

100(4) CAPITAL LETTERS - BLACK

13(1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE AP HIGH INTENSITY PRISMATIC SHEETING

### **GENERAL NOTE:**

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL BENCHING ON EXISTING EMBANKMENT

50.4

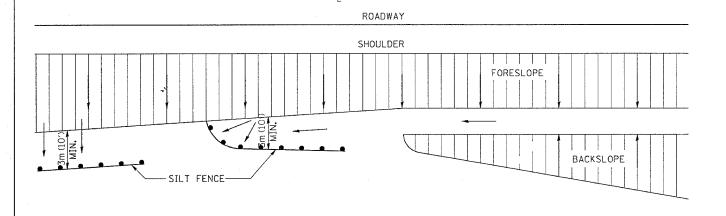
STOP LINE SIGN FOR TEMPORARY SIGNALS

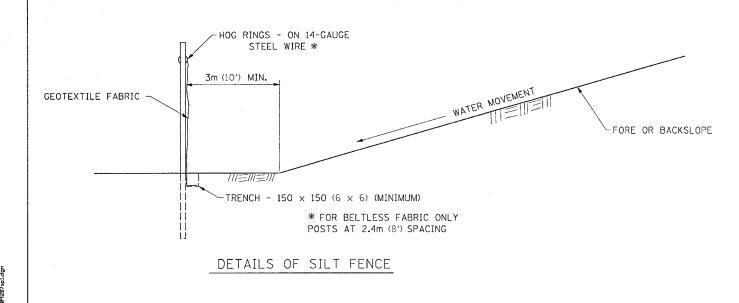
99.4

39.4

EVISED 2-22-06

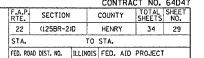
# EROSION CONTROL DETAILS FOR SILT FENCE

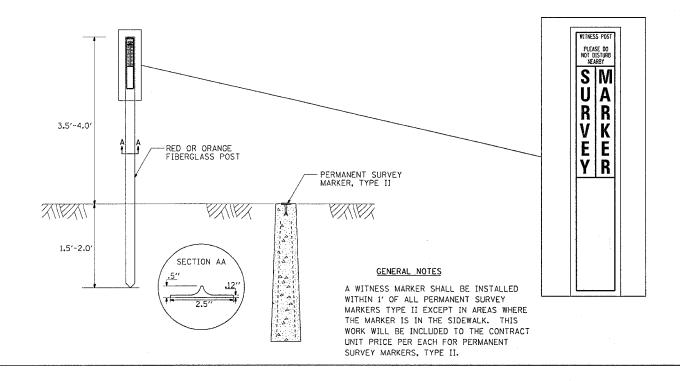




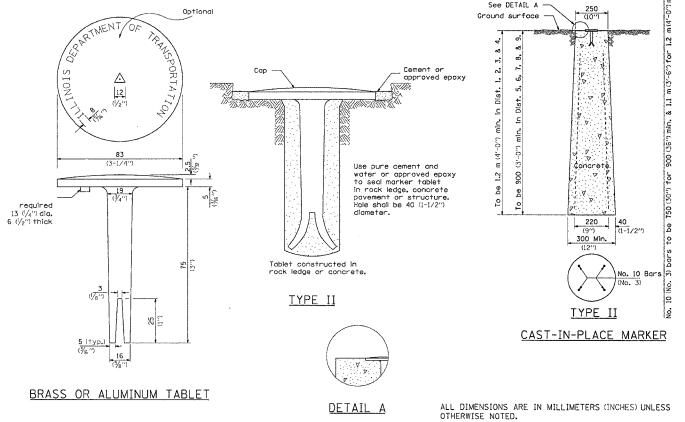
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II





# PERMANENT SURVEY MARKERS, TYPE II



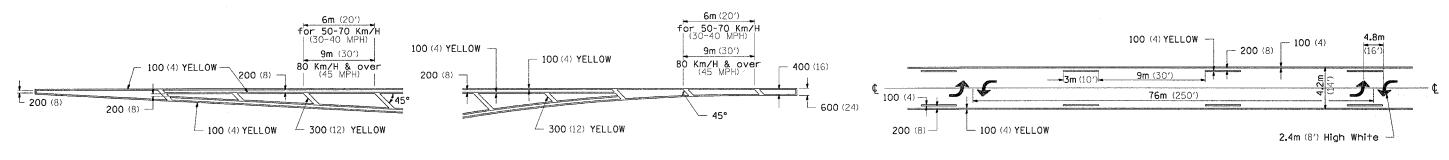
WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

# TYPICAL PAVEMENT MARKINGS

				CONTRA	CT NO.	64D47
	F.A.P. RTE.	RTE. SECTION 22 (125BR-2)D		OUNTY	TOTAL	SHEET NO.
	22			HENRY	34	30
	STA.			STA.		
FFD. ROAD DIST. NO.		III INOIS	FED. AID	PROJECT		

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN

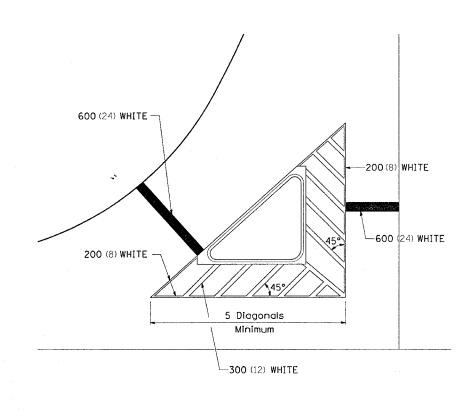
## MEDIAN PAVEMENT MARKING

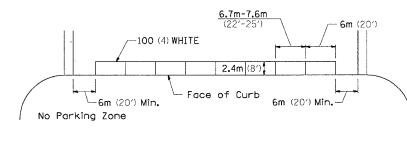


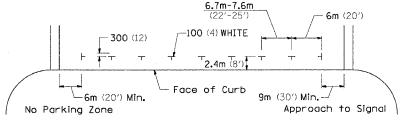
## TYPICAL ISLAND OFFSET SHOULDER WIDTH

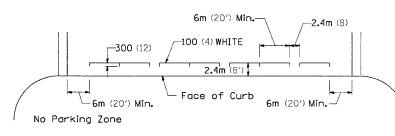
## TYPICAL PARKING SPACING

•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

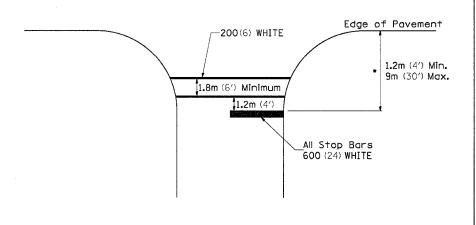








## STANDARD CROSSWALK MARKING See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

