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 Plan and Elevation
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 Beam Details
- 8. Rail Details

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 638 (IL 82) SECTION (129BR-1)D HENRY COUNTY

STANDARDS

- 701006-02 Off-Road Operations, 2L, 2W, 4.5 m (15) to 600 mm (24932) From Pavement Edge
- 701201-02 Lane Closure, 2L, 2W, Day Only, for Speeds > 45 MPH
- 701301-02 Lane Closure, 2L, 2W, Short Time Operations
- 701321-08 Lane Closure, 2L, 2W, Bridge Repair with Barrier
- 702001-06 Traffic Control Devices
- 704001-03 Temporary Concrete Barrier
- 720011 Metal Posts for Signs, Markers and Delineators
- 728001 Telescoping Steel Sign Support
- 729001 Applications of Types A and B Metal Posts (For Signs & Markers)

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.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 64D73



C-92-125-07

RЗE

CONTRACT NO. 6407 COUNTY TOTAL SHEE' NO. F.A.P. SECTION RTE. SECTION 638 (129BR-1)D HENRY D-92-124-07 LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED 06 / 20 07 WAYS, REGION ENGINEER June 29, 20 07 Frie E. Harn/RD Altrin Engineer of Design AND ENVIRONMENT June 29. WAYS, CHIEF ENGINEEI PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Summary of Quantities

	-		100% STATE SFTY-2A
50102400	CONCRETE REMOVAL	CU YD	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	190
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	527
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,790
50900905	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	48
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	55
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	735
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	311
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350
78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	100
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	538
X0321781	MECHANICAL SPLICE	EACH	180
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	92
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
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 		CONTRACT	NO. 64	D73
F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
638	(129BR-1)D	Henry	8	2
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FED. ROAD	DIST. NO ILLI	OIS FED. AID	PROJECT	

Summary of Quantities FAP Route 638 (IL 82) Section (129BR-1)D Henry County Illinois Route 82 over the Green River Structure No. 037-0071

General Notes

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.

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 Square Foot for PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH).

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH).

Install a "TO ACTIVATE SIGNAL" sign for the traffic signal detector loops. The detail of this sign is included in the plans. This work will be included in the cost of TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

This structure will retain the same number 037-0071.

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)

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PLOT F1LE PLOT USER Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

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			CONTRACT	NO. 64	073
<u>, a na ser a s</u>	F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET NO.
	638	(1298R-1)D	Henry	8	3
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	FED. ROAD	DIST. NO ILLI	NOIS FED. AID	PROJECT	

<u>General Notes</u> <u>FAP Route 638 (IL 82)</u> <u>Section (129BR-1)D</u> <u>Henry County</u> <u>Illinois Route 82 over the Green River</u> <u>Structure No. 037-0071</u>



		CONTRACT	NO. 64	D73
 F.A.P. RTE.	SECTION	COUNTY		SHEET NO.
638	(129BR-1)D	Henry	8	4
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FED. ROAD DIST. NO. 7		ILLIN0IS	FED. ALD PR	OJECT-				
Contract	Numbe	er: 641	073					

GENERAL NOTES

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 manufacturer's specifications prior to another coat of zinc. This work shall be performed by the producer and included with the cost of the beam. Any damage done to the bridge during beam removal shall be repaird by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products. 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. Temporary Concrete Barrier should only be anchored into the overlay and not into the PPC Deck Beams. The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures. If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, 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 or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriagers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the existing profile grade and beam camber. All structural steel shall conform to AASHTO Classification M-270 Gr. 36. unless otherwise noted. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60

(IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.





BEAM DETAILS	
S.B.I. RT. 82	
HENRY COUNTY	
SN 037-0071	



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		Henry		-	8	4 SHEETS
FED. NOAD DIST	. NO. 7	ILLINOIS	FEO. ALD PRO	DJECT-	· · · · · · · · · · · · · · · · · · ·	

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Bar	No.	Size	Length	Shape				
a(E.)	48	#5	3'-3"					
a1(E)	112	#5	6'-0"					
b(E)	8	#5	24'-8"					
$b_1(E)$	30	#5	23'-1"					
Mechanico	al Splicers	5	Each	180				
Concrete	Removal		Cu. Yd.	4.4				
Concrete Surface S		Sq. Yd.	92					
Reinforce Epoxy Co		Lbs.	1,790					
Removing Existing I		Foot	48					
Bare indicated thus 1 x 2-#5 etc. indicates								

Bars indicated thus 1 x 2-#5 etc. indicates

S.B.I. RT. 82 HENRY COUNTY SN 037-0071