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- 2. Summary of Quantities
- 3. General Notes
- 4. Roadway Plan
- 5. Traffic Control Plan Stage I
- 6. Traffic Control Plan Stage II
- Bridge Plans

A Ba

284-5393

ETEMADI (815)

MAHMOUD

ENGINEER:

MAINTENANCE

BRIDGE

- 7. General Plan and Elevation
- 8. Deck Plan and Cross Section
- 9. Partial Joint Plan
- 10. Joint Details
- 11. Bar Splicer Assembly Details
- 12. Stop Line Sign for Temporary Signals
- 13. PPC Deck Beam Replacement Plan & Elevation
- 14. Deck Beam Details
- 15. Deck Rail Details

STATE OF ILLINOIS **DIVISION OF HIGHWAYS**

PROPOSED

OGLE COUNTY

R 9 E SUMNER **STANDARDS** 15 630001-07 Steel Plate Beam Guardrail OTTE 630301-04 Shoulder Widening for Type 1 (Special) Guardrail Terminals 631032-03 Traffic Barrier Terminal, Type 6A 635001 Delineators 635006-02 Reflector and Terminal Marker Placement -635011-01 Reflector Marker and Mounting Details 22 5 N 23 701006-02 Off-Road Operations, 2L, 2W, 4.5 m (15') to 600 mm (24") From Pavement Edge 701201-02 Lane Closure, 2L, 2W, Day Only, for Speeds > 45 MPH 701316-03 Lane Closure, 2L. 2W, Bridge Repair, for Speeds > 45 MPH 701321-08 Lane Closure, 2L, 2W, Bridge Repair with Barrier 702001-06 Traffic Control Devices 27 704001-03 Temporary Concrete Barrier 720011 Metal Posts for Signs, Markers and Delineators POND 728001 Telescoping Steel Sign Support 729001 Applications of Types A and B Metal Posts (For Signs & Markers)

Project Location

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. 64C02



SUMMARY OF QUANTITIES

100 % State

Item Description FURNISHED EXCAVATION BITUMINOUS MATERIALS (PRIME COAT) AGGREGATE (PRIME COAT) HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT TEMPORARY RAMP HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B CONCRETE REMOVAL	Units	0uan 75 0 1 16 30 86 19 19
BITUMINOUS MATERIALS (PRIME COAT) AGGREGATE (PRIME COAT) HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT TEMPORARY RAMP HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	TON TON SA YD SO YD SO YD TON SA YD SA YD SA YD	0. 1 16 30 30 30 19 19
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TEMPORARY RAMP HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	SO YD TON SO YD SO YD SO YD	30 86 19
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HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	TON SQ YD SQ YD SQ YD	81
PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	SQ YD SQ YD SQ YD	19
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PROTECTIVE COAT HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	SQ YD	
HOT-MIX ASPHALT SURFACE REMOVAL COMPLETE AGGREGATE SHOULDERS, TYPE B	SQ YD	
AGGREGATE SHOULDERS, TYPE B		10
AGGREGATE SHOULDERS, TYPE B		
AGGREGATE SHOULDENS, TIFE D	TON	
AGGREGATE SHOULDENS, TIFE D	TON	
CONCRETE REMOVAL		50
CONCRETE REMOVAL		
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	011.12	
CONCRETE SUPERSTRUCTURE		3.
PRIDCE DECK CRONVING		18
		10
PRECAST PRESTRESSED CONCRETE DECK REAMS (21" DEPTH)	SO FT	79
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	45
REINFORCEMENT BARS, EPOXY COATED	POUND	30
STEEL RAILING, TYPE SM	FOOT	10
STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	37
TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
TRAFFIC BARRIER TERMINAL TYPE I, SPECIAL (TANGENT)	EACH	4
GUARDRAIL REMUVAL		26
	EACH	
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TRAFFIC CONTROL AND PROTECTION. STANDARD 701316	FACH	2
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	STEEL RAILING, TYPE SM STEEL PLATE BEAM GUARD RAIL, TYPE A	BRIDGE DECK GROOVING S0 YD PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) S0 FT FURNISHING AND ERECTING STRUCTURAL STEEL POUND REINFORCEMENT BARS, EPOXY COATED POUND STEEL RAILING, TYPE SM FOOT STEEL PLATE BEAM GUARD RAIL, TYPE A FOOT TRAFFIC BARRIER TERMINAL, TYPE 6A EACH GUARDRAIL REMOVAL FOOT DELINEATORS EACH MOBILIZATION L SUM

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Pay Code	Item Description	Units	Quantity	
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	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	64	
70300520	PAVEMENT MARKING TAPE. TYPE 111 4"	FOOT	2580	
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	535	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	275	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	
78200400	GUARDRAIL REFLECTORS	EACH	4	
78200410	GUARDRAIL WARKERS, TYPE A	EACH	16	
78300100	PAVEMENT MARKING REMOVAL	sa FT	150	
X0301424	SILICONE JOINT SEALER	FOOT	33	
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	798	
X0320887	POLYMER CONCRETE	CU FT	2.4	4
X5030305	CONCRETE WEARING SURFACE. 5"	sa YD	199	
		3070		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	5	
50800515	BAR SPLICERS	EACH	64	
20003700	BEARING PAD ADJUSTMENT	EACH	12	
20017300	DOWEL REPAIR	EACH	12	
20030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	
20030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	
20032700	KEYWAY REPAIR	FOOT	266	

* SPECIALTY ITEM

PLOT DATE = Mon Jon ZZ 13458.39 2007 FILE NANE = 0.16-V.CADD plana-NOgle Cour PLOT SCALE = 52.0020 '/ IN. USEN NAME = linkuj <u>Summary of Quantities</u> <u>Illinois Route 72 over Tributary to Mud Creek</u> <u>FAP Route 549</u> <u>Section 117BR-M</u> <u>Ogle County</u> <u>Structure No. 071-0068</u>

GENERAL NOTES

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface
PG:	PG 64-22
RAP%: (Max)	15%
Design Air Voids	4.2 • N50
Mixture Composition	
(Gradation Mixture)	IL 9.5 or 12.5
Friction Aggregate	С
20 Year ESAL	0.4

A contingency item of 75 Cubic Yards of Furnish Excavation is included to build up the shoulders when required by the Resident Engineer.

A contingency item of 50 Tons of Aggregate Shoulders. Type B is included to build up the shoulders when required by the Resident Engineer.

This structure will retain the same number 071-0068.

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PLOT FLLE USER At bridge expansion joints, if temporary expansion joint bulkheads are attached to adjacent deck slabs or abutments for support, the Contractor shall cut the attachments as soon as the concrete has set to prevent joint damage due to horizontal contraction or expansion.

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.

The millings from Hot-Mix Asphalt Surface Removal shall be used to build up the existing shoulders, as shown on the typical sections and/or as directed by the Engineer. The shoulder shall be rolled and compacted as directed by the Engineer. Excess grindings or large **chunks** shall be disposed of by the Contractor. No grindings will be allowed on the foreslopes. The cost shall be included in the contract unit price for the BITUMINOUS SURFACE REMOVAL specified.

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 placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

The Resident Engineer shall mark out No Passing zones and contact the Bureau of Operations one or two days before the finish of each resurfacing location so that locations can be painted within the guidelines of Section 703 Work Zone Pavement Marking.

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

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

The Contractor shall seed all disturbed areas within the project limits. Seeding Clube used, except in front of properties where the grass will be mowed, then use S Class 6 (modified) shall be used on front slopes and ditch bottoms. Class 4 shall on all backslopes and areas behind the backslope, and beyond the toe of front slop This work will be included in the contract unit price per Cubic Meter (Cubic Yard)

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed sod at the rate specified in Sections 250 and 252 of the Standard Specifications cost of FURNISH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in

The Contractor shall be responsible for protecting utility property during construction Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notic The JULIE number is 800-892-0123. The following listed utilities located within the adjacent to the project construction limits are members of JULIE:

ComEd 630/ 437-2129

Leaf River Telephone Co. 815/738-2213

Commitments:

All work on the structures over Mud Creek Tributary shall be performed from the exist and no work shall take place below the existing ground.

No trees shall be removed,

No materials shall be placed below the structure.

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the Contractor must be 2 ⁵ 32 deep) of soil profiles					
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Seeding, Class 1 (modified).					
be used behind Type A gutter, pe on fill sections without ditches.					
for FURNISH EXCAVATION.					
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prior to seeding or placement of					
This work shall be included in the					
the cost of the FURNISH EXCAVATION.					
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operations as outlined in					
operations as outlined in e is required for non-emergency work.					
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Sheet 1 of 5 Sheets

General Notes

Plan dimensions and details relative to existing plans are subject to routine variations. The Contactor 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 structural steel shall be AASHTO M 270 Grade 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.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M 300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

Total Bill of Material

ITEM	UNIT	QUANTITY
	SQ YD	106
	SQ YD	199
	SQ YD	186
	CU YD	3.6
	CU YD	3.1
	POUND	450
	POUND	3030
	FT	266
	EA	12
	EA	12
	FT	33
	SQ YD	199
	EA	64
	FOOT	107
	CU FT	2.4
ETE DECK BEAMS (21" DEPTH)	SQ FT	798
CK BEAMS	SQ FT	798
/AL	EACH	5

<u>General Plan and Elevation</u> <u>Illinois Route 72 over Tributary to Mud Creek</u> <u>FAP Route 549</u> <u>Section 117BR-M</u> <u>Ogle County</u> <u>Structure No. 071-0068</u>



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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 -		-	200
CHECKED -	EXAMINED		
DRAWN -	PASSED		OF STRUCTURAL SERVICES
CHECKED -		ENGINEER OF	BRIDGES AND STRUCTURES
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	BAR SPLICER ASSEMBLIES							
,		Strengt	h Requirements					
to d	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension					
	1'-8''	14.7	7.9					
	2'-0''	23.0	12,3					
	2'-7''	33.1	17.4					
	3'-5''	45.1	23.8					
	4'-6''	58.9	31.3					
	5′-9″	75.0	39.6					
	7'-3''	95.0	50,3					
	9'-0''	117.4	61.8					

Bar Size	No. Assemblies Required	Location		
#4	55	Deck		
#5	3	Deck		
#6	6	East Abutment		

Illinois Route 72 over Tributary to Mud Creek <u>Ogle County</u> Structure No. 071-0068



REVISED 10-10-06

				CONTRACT	NO. 64	002
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ound flush,	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
ew beams. 7 Beams.			Ogle	. <u>1</u> 5	13	3 SHEETS
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be filled with	Contract	Numbe	er: 64C02			

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. 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 each fascia beam. 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.

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 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 rods 24 hours minimum and grouting and curing 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.

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY	
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	798	
Removal of Existing PPC Deck Beams	Sq, Ft.	798	
Asbestos Bearing Pad Removal	Each	5	
Steel Railing, Type SM	Foot	107	

PLAN AND ELEVATION F.A. RT. 549 OGLE COUNTY SN 071-0068





Item	Unit	Quantity
Steel Railing, Type SM	Foot	107