

MODEL Path: T:\CADD Projects (Drawing Files)\DOT\IN 380B - Murray Baker Rehabilitation\CADD\Front Sheets - Cover. SOQ.ctb
 FILE NAME: T:\CADD Projects (Drawing Files)\DOT\IN 380B - Murray Baker Rehabilitation\CADD\Front Sheets - Cover. SOQ.ctb

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				TAZEWELL COUNTY	TAZEWELL COUNTY
				90% FEDERAL 10% STATE	100% STATE
				BRIDGE 0013 S.N.090-0001	DECORATIVE LIGHTING 0021
52100560	ANCHOR BOLTS, 2"	EACH	8	8	
58700300	CONCRETE SEALER	SQ FT	5841	5841	
59000200	EPOXY CRACK INJECTION	FOOT	29	29	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1328	1328	
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
* 66900540	VOCS SOIL ANALYSIS	EACH	3	3	
* 66900545	SVOCS SOIL ANALYSIS	EACH	3	3	
* 66900550	PCBS SOIL ANALYSIS	EACH	3	3	
* 66900620	RCRA METALS AND PH SOIL ANALYSIS	EACH	3	3	
* 66900645	PESTICIDE SOIL ANALYSIS	EACH	3	3	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	8	8	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
66901004	HERBICIDES SOIL ANALYSIS	EACH	3	3	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16	

* SPECIALTY ITEM



USER NAME = aecook	DESIGNED - CSG	REVISED -
	DRAWN - AEC	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - RLM	REVISED -
PLOT DATE = 8/15/2019	DATE - 8/9/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(10D-1)BRR	*	329	6
			CONTRACT NO. 68C89	

ILLINOIS FED. AID PROJECT

*PEORIA/TAZEWELL



REV. 9/19/19



PAVEMENT MARKING REMOVAL SCHEDULE - EXISTING I-74						
LOCATION		X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING SQ FT				
		LETTERS AND SYMBOLS	4"	6"	8"	12"
BEGIN STATION	END STATION					
PEORIA COUNTY						
BEGIN I-74 PEORIA	MATCHLINE A					
MATCHLINE A	MATCHLINE B			28		
MATCHLINE B	MATCHLINE C			627	291	85
MATCHLINE C	MATCHLINE D		391	547	1488	136
MATCHLINE D	MATCHLINE E			374		
MATCHLINE E	MATCHLINE F			342	156	
MATCHLINE F	133+00.00			5	677	
IL RTE 40 / ADAMS ST						
IL RTE 40 / W JOHN H. GWYNN JR AVE						
IL RTE 40 / ROMEO B GARRETT AVE						
IL RTE 40 / PERRY AVE						
IL RTE 40 / FAYETTE ST						
IL RTE 40 / SPALDING AVE						
JEFFERSON AVE / FAYETTE ST						
IL RTE 40 / GLEN OAK AVE						
TAZEWELL COUNTY						
BEGIN I-74 TAZEWELL	MATCHLINE G			29	478	121
MATCHLINE G	MATCHLINE H			163	245	
MATCHLINE H	33+00.00			298	25	
33+00.00	46+50.00		169	423	346	214
46+50.00	61+00.00		389	68	866	489
61+00.00	67+00.00		285	32	912	235
BEGIN WASHINGTON ST	21+00.00		9	5		
67+00.00	MATCHLINE J		617	69	58	107
MATCHLINE J	END IL RTE 40	332	550	92	413	169
135+60.00	144+00.00		696	130	482	164
FROM TEMP PVMT MARKING SCHEDULE			11,931		2,065	1,310
SUBTOTAL		332	3,106	3,274	6,985	1,720
TOTAL			30,723			

TEMPORARY PAVEMENT MARKING SCHEDULE						
LOCATION		70300210	70300220	70300250	70300260	70300280
		TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS SQ FT	TEMPORARY PAVEMENT MARKING - LINE 4" FOOT	TEMPORARY PAVEMENT MARKING - LINE 8" FOOT	TEMPORARY PAVEMENT MARKING - LINE 12" FOOT	TEMPORARY PAVEMENT MARKING - LINE 24" FOOT
BEGIN STATION	END STATION					
PEORIA COUNTY						
BEGIN I-74 PEORIA	MATCHLINE A					
MATCHLINE A	MATCHLINE B		1,381			
MATCHLINE B	MATCHLINE C	144	4,803	1,649	171	
MATCHLINE C	MATCHLINE D		8,550	459	172	
MATCHLINE D	MATCHLINE E		3,049			
MATCHLINE E	MATCHLINE F		3,726			
MATCHLINE F	133+00.00		1,212			
IL RTE 40 / ADAMS ST						
IL RTE 40 / W JOHN H. GWYNN JR AVE						
IL RTE 40 / ROMEO B GARRETT AVE						
IL RTE 40 / PERRY AVE						
IL RTE 40 / FAYETTE ST						
IL RTE 40 / SPALDING AVE						
JEFFERSON AVE / FAYETTE ST						
IL RTE 40 / GLEN OAK AVE						
IL RTE 40 OVER I-74						
TAZEWELL COUNTY						
BEGIN I-74 TAZEWELL	MATCHLINE G		1,020	956	348	
MATCHLINE G	MATCHLINE H		2,245	19		
MATCHLINE H	33+00.00		3,102	18		
33+00.00	46+50.00		5,009		619	
46+50.00	61+00.00		3,639			
61+00.00	67+00.00		1,710			
BEGIN WASHINGTON ST	21+00.00		88			
67+00.00	MATCHLINE K		2,334		20	
MATCHLINE K	END IL RTE 40	696	2,655	454	99	36
TOTAL		2,424	45,701	3,627	1,429	36

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES											
LOCATION	66900200	66901001	66901002	66901003	66900620	66900540	66900545	66900550	66900645	66900530	66901004
	NON-SPECIAL WASTE DISPOSAL	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	ON-SITE MONITORING OF REGULATED SUBSTANCES	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	RCRA METALS & pH SOIL ANALYSIS	VOCS SOIL ANALYSIS	SVOCs SOIL ANALYSIS	PCBS SOIL ANALYSIS	PESTICIDE SOILS ANALYSIS	SOIL DISPOSAL ANALYSIS	HERBICIDES SOIL ANALYSIS
	CU YD	LUMP	CAL DA	LUMP	EACH	EACH	EACH	EACH	EACH	EACH	EACH
MBB PIERS 5 & 6	1,328	1	8	1	3	3	3	3	3	3	3
TOTAL:	1,328	1	8	1	3	3	3	3	3	3	3

LANDSCAPING AND EROSION CONTROL							
LOCATION	25000200	25000400	25000500	25000600	25100115	28000250	28000400
	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
	ACRE	POUND	POUND	POUND	ACRE	POUND	FOOT
CHANNEL EXCAVATION WASTE SITE ON I-474	0.6	54	54	54	0.6	60	460
TOTAL:	0.6	54	54	54	0.6	60	460

CHANNEL EXCAVATION	
LOCATION	20300100 CHANNEL EXCAVATION CU YD
	TAZEWELL COUNTY
SOUTH ABUTMENT	90
PIER 5	749
PIER 6	579
TOTAL	1,418

DESIGNED	BAR	11/16/2019
DRAWN	RLA	11/16/2019
REVIEWED	KNB	8/29/2019

PROJECT: I-74 MURRAY BAKER BRIDGE OVER I-74
 FILE NAME: I:\170831740085\CD\RoadStructure\I-74 - Bridge - Plans\046839-411-schedule1.dgn



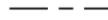
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PLOT SCALE = 2.00' / in.	DRAWN - RLA	REVISED -
PLOT DATE = 8/15/2019	CHECKED - KNB	REVISED -
	DATE - 8/8/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-74 MURRAY BAKER BRIDGE
SCHEDULE OF QUANTITIES**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(10D-1)BRR	PEORIA TAZEWELL	329	17
CONTRACT NO.			68C89	
ILLINOIS FED. AID PROJECT				

LIGHTING LEGEND:

-  R EXISTING NAVIGATION OBSTRUCTION LIGHTING CONTROLLER TO BE REMOVED.
-  R EXISTING JUNCTION BOX TO BE REMOVED.
-  EXISTING CABLE AND CONDUIT TO BE REMOVED.
-  EXISTING CABLE IN EXISTING CONDUIT TO BE REMOVED.
-  PROPOSED ELECTRIC CABLE IN EXISTING EMBEDDED CONDUIT. SIZE AS NOTED ON PLAN.
-  R EXISTING NAVIGATIONAL LIGHT TO BE REMOVED.
-  R EXISTING LUMINAIRE AND MAST ARM TO BE REMOVED.
-  R EXISTING PARAPET MOUNTED LIGHT POLE TO BE REMOVED, NO SALVAGE.
-  PROPOSED NAVIGATION OBSTRUCTION LIGHTING CONTROLLER.
-  PROPOSED JUNCTION BOX, SIZE AS NOTED ON PLAN.
-  PROPOSED CABLE AND CONDUIT, SIZE AS NOTED ON PLAN.
-  R PROPOSED RED NAVIGATIONAL LIGHT, LED, 180°.
-  G PROPOSED GREEN NAVIGATIONAL LIGHT, LED, 360°.
-  PROPOSED LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E, 240V, 4' MAST ARM AND 22' M.H.
-  PROPOSED LIGHT POLE, GALVANIZED STEEL, 35' M.H., 8' MAST ARM, LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F, 240V, ON NEW PARAPET WALL FOUNDATION. SEE STRUCTURAL PLANS FOR FOUNDATION DETAIL.

CABLE/CONDUIT SCHEDULE:

-  A ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1C NO.8, 1/C NO.8 GROUND IN 2" DIA., PVC CONDUIT EMBEDDED IN STRUCTURE.
-  B ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1C NO.8, 1/C NO.8 GROUND IN 3/4" DIA., STAINLESS STEEL CONDUIT ATTACHED TO STRUCTURE.
-  C 2" DIA., PVC CONDUIT EMBEDDED IN STRUCTURE.

HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701456-05 PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 812001 RACEWAY EMBEDDED IN STRUCTURE
- 821101-02 LUMINAIRE WIRING IN POLE
- ** 826001-02 NAVIGATION OBSTRUCTION LIGHTING CONTROLLER, 240V
- 830001-03 LIGHT POLE, STEEL MAST ARM
- 830021-03 LIGHT POLE STEEL TENON TOP
- 836001-04 LIGHT POLE FOUNDATION
- 838001-01 BREAKAWAY DEVICES
- ** BOTH SPARE 20A CIRCUIT BREAKERS LABELED AS "REQUIRED BUT NOT SHOWN" SHALL BE USED FOR FUTURE ROADWAY LIGHTING CIRCUITS. CONTROLLER SHALL BE EQUIPPED WITH AN ADDITIONAL 20AMP SINGLE POLE CIRCUIT BREAKER TO POWER PROPOSED RWIS CONTROL CABINET.

BILL OF MATERIALS:

PAY ITEM	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	8,650
JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 6" X 4"	EACH	28
JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 8" X 6"	EACH	42
JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 8"	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	10,000
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	28
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F	EACH	5
WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 180 DEGREE RED, PARAPET MOUNTED	EACH	6
WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 360 DEGREE GREEN, PARAPET MOUNTED	EACH	2
NAVIGATION OBSTRUCTION LIGHTING CONTROLLER	EACH	1
LIGHT POLE, GALVANIZED STEEL, 35 FT. M.H., 8 FT. MAST ARM	EACH	5
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	5
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,674
REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	22
MAST ARM, STREET LIGHTING, 4'	EACH	28
CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. STAINLESS STEEL	FOOT	728
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	30
REMOVE EXISTING JUNCTION BOX	EACH	35
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	28
REMOVAL OF EXISTING NAVIGATION LIGHTING	EACH	8
MAINTENANCE OF NAVIGATION LIGHTING SYSTEM	CAL MO	12
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	5
REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	880

INDEX OF SHEETS

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- L-3 NAVIGATION LIGHTING REMOVAL PLAN.
- L-4 LIGHTING REMOVAL PLAN.
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- L-6 PROPOSED NAVIGATION LIGHTING PLAN.
- L-7 PROPOSED NAVIGATION LIGHTING PLAN.
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- L-9 PROPOSED LIGHTING PLAN.
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- L-11 PROPOSED LIGHTING PLAN.
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GENERAL NOTES:

1. ~~THE CONTRACTOR SHALL STAGE THE REMOVAL OF EXISTING LIGHT POLES AND INSTALLATION OF NEW POLES SO THAT THE ROADWAY IS ADEQUATELY LIT AT ALL TIMES.~~
2. THE CONTRACTOR SHALL STAGE THE REMOVAL OF THE EXISTING NAVIGATION LIGHTING AND THE INSTALLATION OF NEW NAVIGATION LIGHTING SO AS TO MAINTAIN CONTINUOUS OPERATION OF THE NAVIGATION LIGHTING SYSTEM.
3. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
4. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UNDERGROUND FACILITIES WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
6. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
7. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 817.04.
8. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.
9. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
10. THE COST OF REMOVING THE EXISTING WIRING WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE LIGHTING REMOVAL ITEMS.
11. THE CONTRACTOR SHALL DISPOSE OF THE EXISTING LIGHTING EQUIPMENT (LIGHT POLES, LUMINAIRE ARMS, LUMINAIRES, WIRING, CONDUIT, LIGHTING CONTROLLER, ETC). OFF THE JOB SITE. THE SALVAGE COST OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICES FOR THE LIGHTING REMOVAL PAY ITEMS.
12. THE CONTRACTOR SHALL FURNISH AND INSTALL FLEXIBLE LIQUID TIGHT CONDUIT AS REQUIRED FOR THE PROPOSED LIGHTING INSTALLATION. THE COST OF THE FLEXIBLE LIQUID TIGHT CONDUIT SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO ATTACH THE CONDUITS AND JUNCTION BOXES TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO UNI-STRUT, BRACKETS, FLEXIBLE LIQUID TIGHT CONDUIT, LB CONDUIT, FITTINGS, HARDWARE, AND OTHER MISCELLANEOUS ITEMS. THESE ITEMS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL AND WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT ATTACHED TO STRUCTURE AND JUNCTION BOX PAY ITEMS.
14. CONDUIT ATTACHMENT BRACKETS SHALL BE INSTALLED AT 8 FT. SPACINGS (MAXIMUM) ON STRUCTURES.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL EXPANSION/DEFLECTION COUPLINGS (OR OTHER EQUIPMENT AND METHODS AS APPROVED BY THE ENGINEER) FOR ALL BRIDGE JOINTS AS SHOWN ON THE PLAN SHEETS AND DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.
16. ALL FLEXIBLE LIQUID TIGHT CONDUIT SHALL BE NON-METALLIC AND SHALL INCLUDE CONNECTORS WITH INTEGRAL STAINLESS STEEL KELLUM GRIPS AT THE ENDS FOR INCREASED STRENGTH AND DURABILITY.
17. ALL CONDUIT ATTACHMENT BRACKETS AND HARDWARE SHALL BE STAINLESS STEEL.
18. THE CONTRACTOR SHALL INSTALL THREAD LOCKER ON ALL ATTACHED GALVANIZED CONDUIT THREADED CONNECTIONS TO PREVENT LOOSENING THROUGH VIBRATION.

MODEL: Default FILE NAME: S:\Projects\3505 - Various Lighting Projects\Statewide - EIM\Project Work\Electrical\Drawings\41-74 Murray Baker\CADD\Sheets\468C89-shh-legend-d01.dgn

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PLOT SCALE =	DRAWN - MRT	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABLE/CONDUIT SCHEDULE, GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS, LIGHTING LEGEND, AND BILL OF MATERIALS.	
SHEET	OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(10D-1)BRR	*	329	83
CONTRACT NO. 68C89				
ILLINOIS		FED. AID PROJECT		

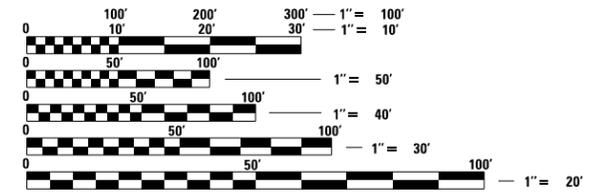
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104	SCHEDULE OF QUANTITIES - ELECTRICAL ITEMS
105	LIGHTING CRITERIA AND CONSTRUCTION NOTES
106	EXISTING LIGHTING SYSTEM REMOVALS
107	REMOVAL DETAILS
108	KEY PLAN
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135	SCHEDULES - WIRE, CABLE AND CONDUIT
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GENERAL NOTES

- PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO FURNISH AND INSTALL THE ELECTRICAL WORK AS SHOWN ON THE PLANS, AS DETAILED IN THE SPECIFICATIONS, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC), AND AS REQUIRED FOR SPECIFIED OPERATION. CONTRACTOR SHALL EMPLOY ONLY EXPERIENCED ELECTRICIANS. A DULY LICENSED ELECTRICIAN SHALL SUPERVISE ALL WORK. CONTRACTOR SHALL ENSURE THAT ALL EMPLOYEES ARE FAMILIAR WITH THE TYPE OF WORK ENCOUNTERED ON THE PROJECT. ALL MATERIALS AND EQUIPMENT PROVIDED, WHERE APPLICABLE, SHALL HAVE A UL OR FM "LISTING MARK" AFFIXED TO THEM OR THEIR PACKING CONTAINERS AND THEY SHALL MEET ALL UL OR FM AND NEC STANDARDS FOR THEIR INDICATED USE.
- WHEREVER THE TERM "STANDARD SPECIFICATIONS" IS USED, IT SHALL MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2016 EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION."
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION AND SHALL PROTECT ALL EXISTING UNDERGROUND FACILITIES FROM DAMAGE AND DISRUPTION. CONTRACTOR SHALL PHYSICALLY LOCATE ALL UTILITIES IN THE AFFECTED AREA, REGARDLESS OF THE OWNERSHIP OF THE UTILITY. JULIE LOCATING ALONE IS NOT SUFFICIENT. METHODS THE CONTRACTOR SHALL USE INCLUDE HAND DIGGING, VACUUM POT-HOLING, PROBING, ELECTRONIC LOCATING USING CONTRACTOR'S OWN EQUIPMENT, VISUAL SURVEY OF NEARBY FACILITIES (MANHOLES, INLETS, STREET BOXES, HYDRANTS AND THE LIKE), CITY SEWER MAPS, IN SHORT: ANY METHOD DEEMED BY THE CONTRACTOR TO BE SUFFICIENT TO PREVENT ANY DAMAGE OR DISRUPTION TO EXISTING UTILITIES. FIELD LOCATING OF UTILITIES SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM. CONTRACTOR SHALL REPAIR AND RESTORE ANY UNDERGROUND UTILITIES DAMAGED OR DISRUPTED DURING CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE UTILITY OWNER AT CONTRACTOR'S OWN EXPENSE.
- PLANS AND SPECIAL PROVISIONS DETAIL ONE METHOD OF WIRING FOR THE DMX CONTROL SYSTEM THAT IS BASED ON THE DMX-512 OPEN PROTOCOL WIRING METHODS. SOME EQUIPMENT REFERENCED ON THE PLANS AND IN THE SPECIAL PROVISIONS INCLUDES EQUIPMENT AVAILABLE FROM A SINGLE MANUFACTURER. OTHER EQUIPMENT AND WIRING METHODS BY OTHER MANUFACTURERS FOR APPLYING A DMX-512 COMPLIANT SYSTEM IS ACCEPTABLE. THE MANUFACTURER OF THE LIGHTING EQUIPMENT AND ASSOCIATED POWER AND CONTROL SYSTEM SHALL BE RESPONSIBLE TO PROVIDE ALL DETAILS OF INSTALLATION FOR THE SYSTEM PROVIDED. THE MANUFACTURER SHALL UTILIZE WIRING METHODS AND EQUIPMENT THAT PROVIDE RELIABLE, ROBUST, AND REPEATABLE OPERATION WHEN INSTALLED FOR THIS SPECIFIC APPLICATION. SUBMIT SHOP DRAWINGS THAT INCLUDE SPECIFIC DETAILS OF THE CIRCUITRY REQUIRED FOR THE MANUFACTURER'S SPECIFIC EQUIPMENT FOR THIS SPECIFIC APPLICATION AND CONSIDERATION SHALL BE GIVEN TO CIRCUIT WIRING LENGTHS, DMX WIRING RESTRICTIONS, VOLTAGE DROP, CIRCUIT LOADING, SURGE PROTECTION OF LUMINAIRES (POWER AND SIGNAL CONNECTIONS), AND SURGE PROTECTION FOR THE LIGHTING CONTROLLER MOUNTED EQUIPMENT (FIELD AND POWER WIRING).
- CONTRACTOR SHALL EVALUATE REMOVED MATERIALS AND EQUIPMENT BEFORE DISPOSAL. HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS SHALL BE ACCOMPLISHED AS REQUIRED FOR THE MATERIALS AND EQUIPMENT REMOVED. RECYCLE THE LED AND DRIVER ELECTRONICS COMPONENTS WITH A LICENSED RECYCLER. DISPOSE OTHER REMOVED MATERIAL AS REQUIRED BY THE GOVERNING LAWS. SPECIAL HANDLING AND DISPOSAL SHALL NOT BE MEASURED SEPARATELY AND IS INCLUDED IN THE ASSOCIATED PAY ITEM.
- THE DETAILS SHOWN IN THE PLANS FOR THE FABRICATION OF THE LUMINAIRE SUPPORTS INDICATE MATERIALS OF CONSTRUCTION AND GENERAL FABRICATION REQUIREMENTS. DIMENSIONS SHOWN ARE PROVIDED FOR GENERAL GUIDANCE. EVERY MOUNTING LOCATION IS UNIQUE, AND THE SUPPORT STRUCTURE PROVIDED FOR EACH LOCATION SHALL BE FABRICATED FOR THAT SPECIFIC UNIQUE SITUATION. PROVIDE THE LUMINAIRE SUPPORT STRUCTURE REQUIRED FOR EACH SITUATION AT THE BID PRICE AND NO ADDITIONAL PAYMENT WILL BE MADE. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW FOR THE PROPOSED LUMINAIRE SUPPORTS BEFORE FABRICATION BEGINS.

- THE DECORATIVE LIGHTING SYSTEM DESCRIBED IN THE PLANS AND SPECIAL PROVISIONS IS BASED ON THE EQUIPMENT OF A SPECIFIC MANUFACTURER. OTHER MANUFACTURER'S EQUIPMENT IS ACCEPTABLE, HOWEVER IT MUST MEET THE DESIGN INTENT DESCRIBED IN THESE DOCUMENTS, WHETHER SPECIFICALLY STATED OR IMPLIED BY THE DESIGN DETAILS. AN OPEN PLATFORM CONTROL SYSTEM HAS BEEN DESCRIBED THAT UTILIZES USITT DMX 512 PROTOCOL WITH RDM (REMOTE DEVICE MANAGEMENT, ANSI E1.20) ENHANCEMENT TO ALLOW BI-DIRECTIONAL COMMUNICATION BETWEEN THE LIGHTING SYSTEM CONTROLLER AND EACH LUMINAIRE. PROPOSED SYSTEMS BY OTHER MANUFACTURERS SHALL UTILIZE THE SAME DMX/RDM PROTOCOL. THE MANUFACTURER SHALL PROVIDE A SYSTEM OF THEIR OWN DESIGN THAT MEETS THE DESIGN INTENT OF THESE DOCUMENTS AND CONFORMS TO THE METHODS OF THE MANUFACTURER TO PROVIDE A ROBUST AND RELIABLE CONTROL SYSTEM THAT IS SPECIFICALLY DESIGNED FOR THIS APPLICATION. THE MANUFACTURER'S PROPOSED SYSTEM SHALL TAKE INTO CONSIDERATION THE RESTRICTIONS IMPOSED FOR LOCATING AND MOUNTING EQUIPMENT TO THE BRIDGE STRUCTURE. BRIDGE MOUNTED EQUIPMENT SHALL BE LIMITED TO CONDUIT, JUNCTION BOXES, SIGNAL SPLITTERS, BOOSTERS, AND LUMINAIRES. PROPOSALS FOR MOUNTING ADDITIONAL EQUIPMENT SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER AND OWNER BEFORE PROCEEDING WITH THESE MODIFICATIONS. THE MANUFACTURER SHALL SUBMIT TO THE ENGINEER FOR REVIEW SHOP DRAWINGS FOR THE COMPLETE CONTROL SYSTEM. SUBMITTAL SHALL INCLUDE LIGHTING CONTROLLER PANEL DRAWINGS (INTERIOR, EXTERIOR LAYOUT DRAWINGS, PANEL WIRING DRAWINGS, CONTROL AND POWER ONE-LINES, FIELD WIRING DRAWINGS AND SPEC SHEETS FOR ALL CONTROL EQUIPMENT). SUBMIT TO THE ENGINEER FOR REVIEW SHOP DRAWINGS AND PRODUCT DATA FOR THE DECORATIVE LIGHTING SYSTEM 45 DAYS AFTER CONTRACT EXECUTION.
- THE EQUIPMENT MOUNTED ON THE BRIDGE WILL BE EXPOSED TO HARSH OUTDOOR CONDITIONS SUCH AS EXTREME HIGH AND LOW TEMPERATURES, SUN EXPOSURE, HUMIDITY, RAIN, SNOW, ICE THAT IS TYPICAL FOR THIS GEOGRAPHIC AREA. PROXIMITY TO THE ROADWAY WILL ALSO EXPOSE THE INSTALLATION TO ROAD DE-ICING SALT SPRAY. THE BRIDGE STRUCTURE EXPERIENCES VIBRATION FROM VARIOUS SOURCES WITH VARIOUS FREQUENCIES AND INTENSITIES. STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION AND CUTTING TO SIZE (I.E. CHANNEL STRUT USED FOR CONDUIT AND JUNCTION BOX SUPPORTS). SEAL ALL FIELD CUT THREADS AND SUPPORTS (I.E. CHANNEL STRUT USED FOR CONDUIT AND JUNCTION BOX SUPPORTS) WITH APPROPRIATE COLD GALVANIZING TREATMENT. FASTENERS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL TAKE EXTREME CARE WITH THIS INSTALLATION TO MAKE JOINTS TIGHT, FASTENERS SECURE TO MANUFACTURER'S SPECIFICATION, USE THREAD SEAL AND LOCK COMPOUND ON FASTENERS AND JOINT SEALANT ON THREADED JOINTS TO SEAL AND LOCK THE JOINT FROM LOOSENING FROM VIBRATION.
- FINAL CONNECTION TO EACH LUMINAIRE (FIXTURE WHIP) SHALL BE FLEXIBLE CABLE THAT CONTAINS A 2-PAIR, TWISTED SHIELDED DMX-512 COMPLIANT CABLE (120 OHM) AND POWER CONDUCTORS. THIS CONNECTION SHALL BE ACCOMPLISHED WITH EITHER A SINGLE CABLE (CONTROL AND POWER) OR TWO SEPARATE CABLES (ONE CONTROL, ONE POWER). UTILIZING NON-COMPLIANT CABLE FOR DMX/RDM SIGNALS IS NOT ALLOWED. FIXTURE WHIPS SHALL BE CONSTRUCTED TO ALLOW LENGTHS OF CABLE NEEDED TO REACH THE LUMINAIRE JUNCTION BOXES FROM EVERY LUMINAIRE AS SHOWN ON THE PLAN DETAIL SHEETS AND AS REQUIRED FOR THE ACTUAL INSTALLATION. DMX DIGITAL COMMUNICATIONS CABLING SHALL BE CONSTRUCTED FROM DMX-512 COMPLIANT CABLING AND SHALL CONFORM TO ALL MATERIAL AND INSTALLATION STANDARDS AND BEST INDUSTRY PRACTICES FOR INSTALLATION AND OPERATION IN EXTREME OUTDOOR ENVIRONMENTS. ALL LUMINAIRE FIXTURE WHIPS AND ASSOCIATED POWER CABLING SHALL BE EQUIPPED WITH STRAIN RELIEF AT EACH FIXED END AS WELL AS INTERMEDIATE CABLE SUPPORTS TO PREVENT CABLE MOVEMENT AND LOOSENING FROM WIND AND VIBRATION.



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811**



100 WALNUT ST., SUITE 200
PEORIA, ILLINOIS 61602
(309) 689-9888 / info@f-w.com

PROJECT # 0181069.00



DA Rannbarger
DIRK RANNBARGER, P.E.
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062 058019 EXPIRES 11-30-19

08-01-19
DATE

This seal applies to Decorative Lighting Sheets #100 to #158.

TOTAL BILL OF MATERIALS			
PAY CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	7,944
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	12,330
81300710	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 6"	EACH	56
81702101	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 14	FOOT	14,400
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	34,320
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1
X1400375	DMX CONTROL CABLE IN CONDUIT	FOOT	32,944
X1400376	CONTROL CABINET, BASE MOUNT (SPECIAL)	EACH	2
X1400377	CBX SPLITTER BOX	EACH	38
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	2
X8130110	JUNCTION BOX (SPECIAL)	EACH	177
X8212031	LUMINAIRE, TYPE A (SPECIAL)	EACH	144
X8212032	LUMINAIRE, TYPE B (SPECIAL)	EACH	286
X8212033	LUMINAIRE, TYPE C (SPECIAL)	EACH	72
X8710035	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	2,572

F.A.I. 74 - SECTION 90(10D-1)BRR
PEORIA / TAZEWELL COUNTY
STATION 151+85
STRUCTURE NO. 090-0001

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USER NAME = rramlino
PLOT SCALE = 24x0" / ft.
PLOT DATE = 09/06/19

DESIGNED - DAR
CHECKED - JDA
DRAWN - RJT
CHECKED - JJO

REVISED 10/18/19
REVISED
REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECORATIVE LIGHTING SHEET INDEX AND GENERAL NOTES
MURRAY BAKER BRIDGE OVER ILLINOIS RIVER**

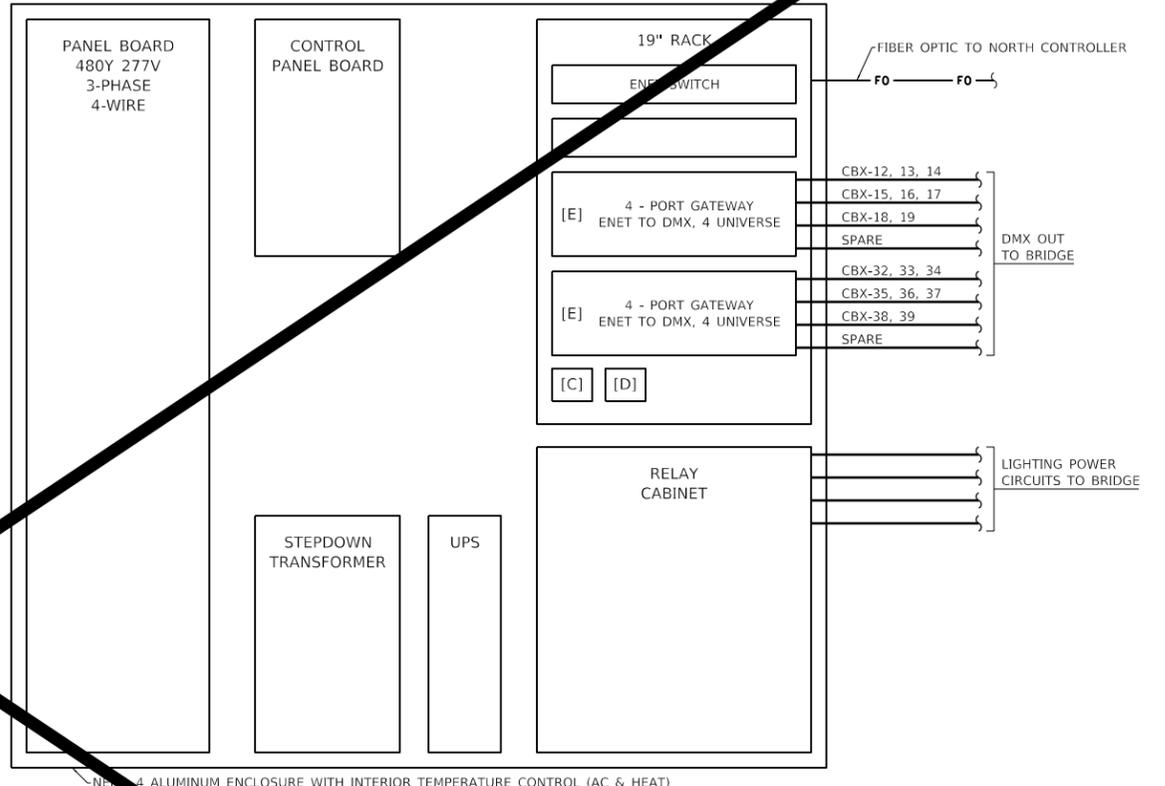
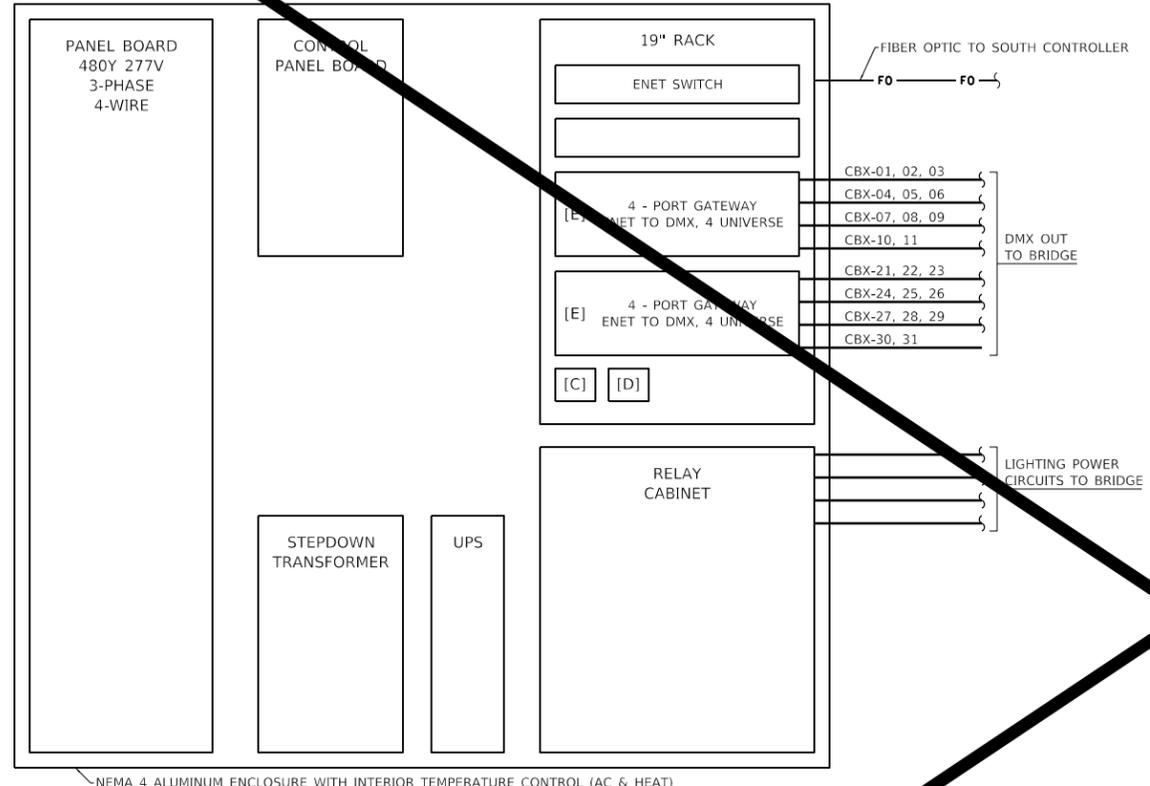
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REV. 11/1/19

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(10D-1)BRR	**	329	100
CONTRACT NO.			68C89	

ILLINOIS FED. AID PROJECT
** PEORIA / TAZEWELL
REV. 11/1/19

NORTH CONTROLLER

SOUTH CONTROLLER



NEMA 4 ALUMINUM ENCLOSURE WITH INTERIOR TEMPERATURE CONTROL (AC & HEAT)

NEMA 4 ALUMINUM ENCLOSURE WITH INTERIOR TEMPERATURE CONTROL (AC & HEAT)

PARTS LIST		
ITEM	DESCRIPTION	DESIGNATION
A	UNISON MOSAIC W/1 MODULE RACKMOUNT	
B	48V POWER SUPPLY KIT	
C	UNISON MOSAIC SHOW CONTROLLER	
D	UNISON MOSAIC REMOTE I/O DEVICE	
E	RSN-DMX-T-RACK MK2 GW 4P 19" RACK MT	
F	ERP48-FT ENCLOSURE 48 1P RELAYS	

F.A.I. 74 - SECTION 90(10D-1)BRR
 PEORIA / TAZEWELL COUNTY
 STATION 151+85
 STRUCTURE NO. 098-0001

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USER NAME = rlamino	DESIGNED - DAR	REVISED
	CHECKED - JDA	REVISED
PLOT SCALE = 240" / ft.	DRAWN - RJT	REVISED
PLOT DATE = 00/00/00	CHECKED - JJO	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

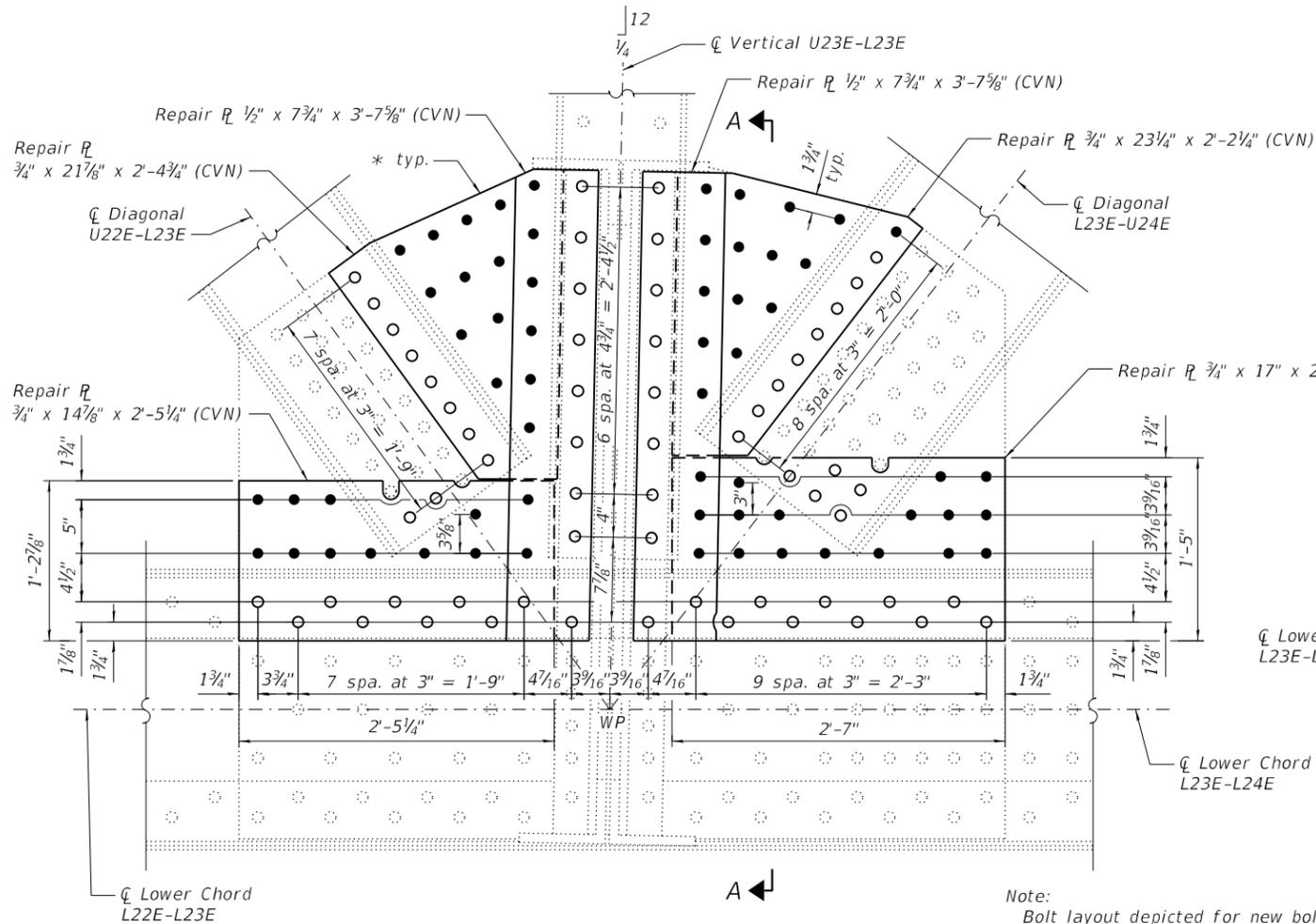
LIGHTING CONTROLLER DETAILS
 MURRAY BAKER BRIDGE OVER ILLINOIS RIVER

SHEET 1 OF 2 SHEETS

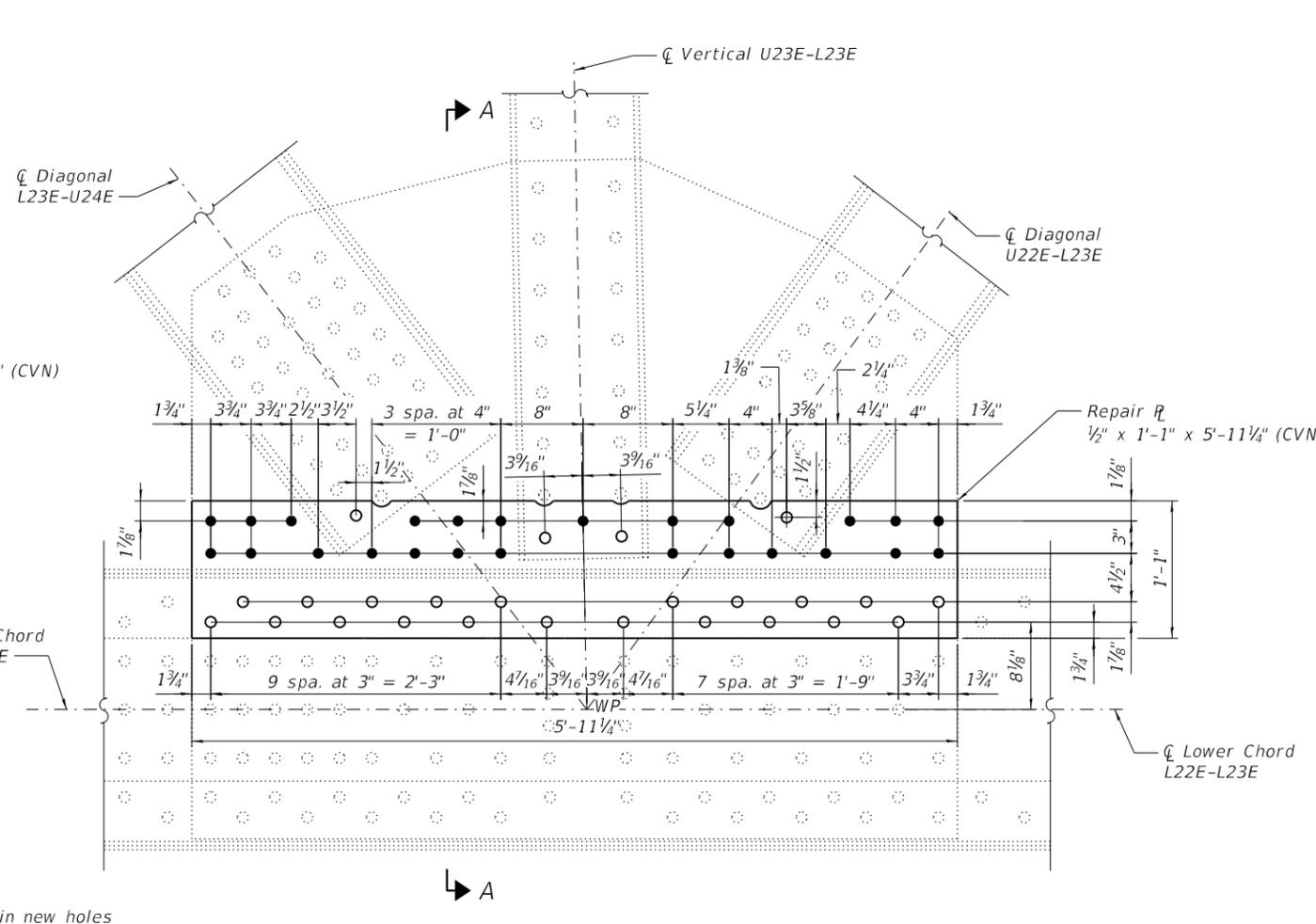
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CONTRACT NO. 68100				

ILLINOIS FED. AID PROJECT

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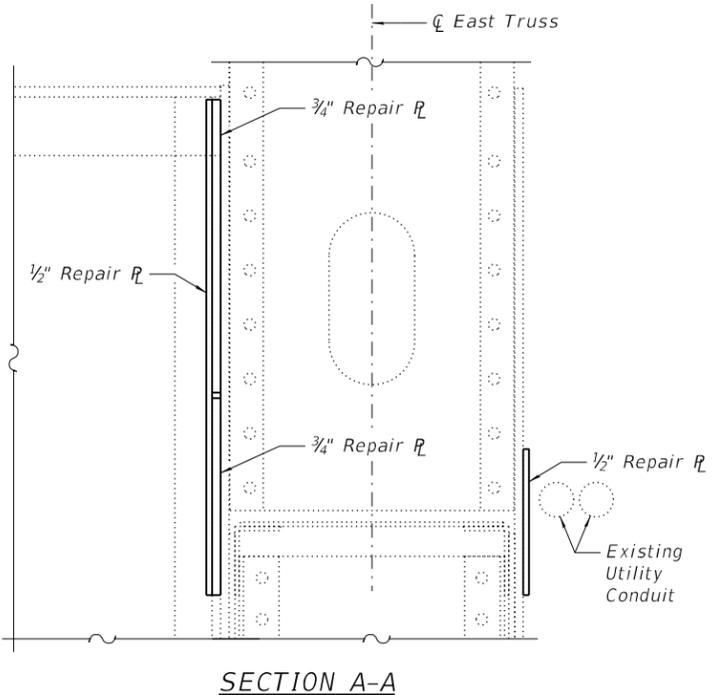


INSIDE VIEW AT L23E (ITEM 118)
 Looking East
 * Trim repair R to match gusset R



OUTSIDE VIEW AT L23E (ITEM 119)
 Looking West
 Decorative bridge lighting attachments and conduit not shown for clarity.

Note:
 Bolt layout depicted for new bolts in new holes is approximate. Unless shown otherwise, bolts shall be spaced with a minimum edge distance of $1\frac{3}{4}$ " and a maximum edge distance of 4". Along the edges of the repair plates, the bolts shall be at 3" minimum to 6" maximum centers. If the number of fasteners provided is different than the number depicted, the layout shall be submitted to the Engineer for approval.



SECTION A-A

Notes:
 Existing fasteners in gusset plate connection are 1" \circ rivets in $1\frac{1}{16}$ " \circ holes. All fasteners in gusset plate repairs shall be 1" \circ ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts. Holes in new material and new holes in existing material shall be $1\frac{1}{16}$ " \circ .
 Existing utility conduits attached to the lower chord and located near the gusset plate repair shall be temporarily detached, temporarily supported, modified as needed to fit the repaired condition, and reattached after the gusset plate repair has been completed. Modifications shall be approved by the Engineer. Utilities are to remain in service during gusset plate repair. Cost to detach, support, modify, and reattach existing conduit necessary to complete the work as shown in the plans shall be included in Structural Steel Repair.
 Existing steel that will be in contact with new steel will be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for primary connections. The primer shall be fully cured in accordance with the manufacturer's instructions prior to connecting new steel to existing steel.
 Load carrying components designated "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.
 Coordinate removal and replacement of decorative bridge lighting with gusset plate repairs. See Lighting Plans.

LEGEND

- \circ Existing fastener to remain
- \bullet New bolt in new hole (shop or field drilled)
- \circ Replace existing fastener with new bolt in existing hole (holes in new material may be field drilled using existing member as a template)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	960



USER NAME =	DESIGNED - RLM	REVISED - 10/25/19 RLM
PLOT SCALE =	CHECKED - JAD	REVISED -
PLOT DATE = 10/28/2019	DRAWN - AEC	REVISED -
	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS - 2
MURRAY BAKER BRIDGE OVER ILLINOIS RIVER

SHEET S100 OF S145 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90(10D-1)BRR		329	282
CONTRACT NO. 68C89				
		ILLINOIS	FED. AID PROJECT	