

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-(1,2)L-1	MADISON	31	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

- NEW SPLICES, FUSES, FUSEHOLDERS, AND SURGE PROTECTORS SHALL BE PROVIDED AND INSTALLED FOR ALL LUMINAIRES BEING REPLACED. THIS WORK SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE.
- ALL LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, ARTICLE 1069.06. LIGHTING UNIT NUMBERS, WATTAGE, AND VOLTAGE SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ALL MEASUREMENTS FOR ATTACHMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND FABRICATE TO FIT.
- ALL LIGHTS SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT EXCEPT AS DESCRIBED IN NOTE 5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. SEE CANAL BRIDGE NOTE #13 FOR AVIATION & NAVIGATION LIGHTING.
- ONE SIDE OF THE ROADWAY LIGHTING, EASTBOUND OR WESTBOUND, FROM ONE CONTROLLER MAY BE DE-ENERGIZED AT ONE TIME FOR A 24 HOUR PERIOD OR LONGER, AS DIRECTED BY THE ENGINEER, TO ALLOW CONSTRUCTION OF THE PROPOSED ROADWAY LIGHTING.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- ALL LUMINAIRES SHALL BE SALVAGED AND DELIVERED TO THE IDOT MAINTENANCE FACILITY IN ACCORDANCE WITH SECTION 842 OF THE STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE. THE LOCATION OF THE IDOT MAINTENANCE FACILITY IS 9601 ST. CLAIR AVENUE, FAIRVIEW HEIGHTS, IL. LUMINAIRES SHALL BE CRATED IN CONTAINERS ACCEPTABLE TO THE ENGINEER. LIGHT POLES SHALL NOT BE SALVAGED BUT SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTORS EXPENSE.
- THE CONDUIT SYSTEM SHALL NOT BE USED FOR GROUNDING/BONDING PURPOSES. THEREFORE, THE EQUIPMENT GROUNDING CONDUCTOR (GREEN GROUND) MUST BE CONTINUOUS THROUGHOUT EACH CIRCUIT. ALL LUMINAIRES, INCLUDING NAVIGATION AND AVIATION, AND METAL PARTS MUST BE PROPERLY BONDED TO IT.
- EACH CABLE SHALL BE UNIQUELY COLOR CODED FOR IDENTIFICATION IN ORDER TO DISTINGUISH BETWEEN CIRCUITS AND INDIVIDUAL CABLES WITHIN A CIRCUIT. COLOR CODING SHALL BE VISIBLE AT ALL POINTS OF ENTRY, SUCH AS JUNCTION BOXES, PULL BOXES, HANDHOLES, ETC.
- CHECK THE CONDITION OF THE BRIDGE GROUNDING SYSTEM WHICH IS GROUNDED AT THE PIERS. REPAIR DAMAGE AND REPLACE CONNECTIONS AS NECESSARY TO ENSURE GOOD GROUNDING. REPAIRS SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
- ALL LUMINAIRES WILL MOUNT ON A VERTICAL TENON (TENON TOP POLE) EXCEPT THE LUMINAIRES WITHIN THE TRUSS SECTION OF THE CANAL BRIDGE, WHICH MOUNT ON A HORIZONTAL TENON.
- POLES SHALL BE PAINTED GALVANIZED STEEL TENON TOP POLES WITH INTERNAL VIBRATION DAMPERS. THE PAINT SHALL MATCH THE COLOR OF A WEATHERED GALVANIZED POLE SURFACE. STAINLESS STEEL POLES WILL BE CONSIDERED AS AN ALTERNATE AND SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
- REMOVE EXISTING STAINLESS STEEL JUNCTION BOXES AND CONDUIT ATTACHED TO STRUCTURE AT ALL BRIDGE ABUTMENTS. STAINLESS STEEL JUNCTION BOXES SHALL BE SALVAGED AND RETURNED TO THE IDOT MAINTENANCE FACILITY.
- WHERE THE CONDUIT SYSTEM IS REMOVED FROM PARAPET WALLS AND OTHER STRUCTURES, THE CONTRACTOR SHALL CUT OFF THE ANCHOR DEVICE 1 IN. BELOW THE SURFACE OF THE CONCRETE, AND FILL ALL VOIDS WITH PORTLAND CEMENT CONCRETE MORTAR, MAKING A SMOOTH FINISH TO THE CONCRETE SURFACE. UNPROTECTED BRIDGE STEEL WHICH IS EXPOSED BY THE REMOVAL OF THE CONDUIT SYSTEM SHALL BE TOUCHED UP USING A PAINT AND PROCEDURE APPROVED BY THE ENGINEER.
- COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATION/INTELLIGENT TRANSPORTATION SYSTEM FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- IN ACCORDANCE WITH THE IDOT-IEPA "AGREEMENT ON MICROSCALE AIR QUALITY ASSESSMENTS FOR IDOT SPONSORED TRANSPORTATION PROJECTS", THIS IS EXEMPT FROM A PROJECT-LEVEL CARBON MONOXIDE AIR QUALITY ANALYSIS BECAUSE IT DOES NOT ADD THROUGH LANES OR AUXILIARY TURNING LANES.
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT ARE AS FOLLOWS:
 - AMEREN CIPS (ELECTRIC)
 - AMEREN IP (ELECTRIC)
 - AT&T CORP. (COMM)
 - BUCKEYE PARTNERS L.P.-WOOD RIVER PIPE LINE
 - CENTER POINT ENERGY (PIPE LINE)
 - CHARTER COM., INC. (CABLE T.V.)
 - CITY OF EDWARDSVILLE (WTR.)
 - EXPLORER PIPE LINE CO. (PIPE LINE)
 - CITY OF GRANITE CITY (SANITARY SEWER)
 - ILLINOIS AMERICAN WATER CO. (WTR.)
 - LACLEDE PIPELINE CO. (PIPE LINE)
 - CITY OF MADISON (SANITARY SEWER)
 - MADISON CO. SPECIAL SERVICE AREA#1 (SANITARY SEWER)
 - MITCHELL PUBLIC WATER DISTRICT (WATER)
 - AT&T ILLINOIS (COMMUNICATION)
 - LEVEL 3 COMMUNICATION (COMMUNICATION)

MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY " * "

- A 9-1-1 ADDRESS AT THE PROPOSED SERVICE LOCATIONS ARE AS FOLLOWS:

SERVICE TO CONTROLLER 1 (RIVER BRIDGE) - 18-1-13-36-00-000-001
 SERVICE TO CONTROLLER 2 (CANAL BRIDGE) - 18-1-14-30-00-000-007

IF THERE ARE ANY QUESTIONS REGARDING THE ABOVE, CONTACT 9-1-1 COORDINATOR OF MADISON COUNTY AT (618) 692-7040 X5911.

- FOLLOWING PROJECT IS TO BE ANTICIPATED UNDER CONSTRUCTION AT THE SAME TIME:

FAI ROUTE 270, SECTION: 60-(1,2,3,4,5)I, MADISON COUNTY (MEDIAN CABLE INSTALLATION)

THE COOPERATION BETWEEN THE CONTRACTORS SHALL BE AS PER ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS.

- BRIDGE MOUNTED LIGHT POLE FOUNDATIONS SHALL BE REPAIRED IN ACCORDANCE WITH THE PLAN SHEET NUMBERS 22 THROUGH 31.

RIVER BRIDGE NOTES (SN#060-0035)

- LIGHT POLES MOUNTED ON THE BRIDGE PARAPET WALL SHALL BE PROVIDED WITH VIBRATION ISOLATION MOUNTING PADS ACCORDING TO ARTICLE 1069.07 OF THE STANDARD SPECIFICATIONS. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY.
- ALL STEEL PARTS AND FITTINGS PLACED ON THE BRIDGE SHALL BE STAINLESS STEEL, INCLUDING NUTS, BOLTS, AND WASHERS (UNLESS NOTED OTHERWISE). CONDUIT CLAMPS SHALL BE STAINLESS STEEL OR ENGINEER APPROVED EQUAL.
- ALL NEW CABLE AND CONDUIT SHALL BE PROVIDED AND INSTALLED ON THE FACE OF THE BRIDGE PARAPET WALL TO FEED THE LIGHT POLES ON THE BRIDGE. RIGID 1 INCH ALUMINUM CONDUIT SHALL BE INSTALLED FROM JUNCTION BOXES ATTACHED TO THE PARAPET WALL AT LIGHT POLE FOUNDATIONS, UP INTO THE POLE PER THE PLAN DETAILS. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT MAY BE SUBSTITUTED FOR 1 INCH RIGID ALUMINUM CONDUIT TO THE POLE IF APPROVED BY THE ENGINEER.
- STAINLESS STEEL JUNCTION BOXES AT EACH LIGHT POLE SHALL COME COMPLETE WITH A STAINLESS STEEL BRACKET TO MOUNT THE BOX TO THE PARAPET WALL. THE BRACKET SHALL BE SIMILAR TO THAT USED ON THE CANAL BRIDGE AND ALONG WITH MOUNTING HARDWARE SHALL BE INCLUDED IN THE COST OF THE JUNCTION BOX.
- CONDUIT ON THE BRIDGE PARAPET WALLS SHALL BE SUPPORTED AT 6' INTERVALS.
- CONDUIT EXPANSION/DEFLECTION FITTINGS AT ALL BRIDGE EXPANSION JOINTS SHALL BE INSTALLED AS NOTED IN THE PLANS. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT OR STAINLESS STEEL EXPANSION/DEFLECTION FITTINGS SHALL BE USED AND ARE INCLUDED IN THE COST OF THE CONDUIT.
- THE CONTRACTOR SHALL NOT DRILL INTO OR WELD METAL PARTS ONTO BRIDGE STRUCTURAL MEMBERS.
- THE NORTH CONDUIT ATTACHED TO THE BRIDGE PARAPET SHALL CARRY A LIGHTING CIRCUIT FOR THE SIGN PAINTED ON THE BRIDGE STEEL. THIS CIRCUIT SHALL TERMINATE IN A DEDICATED JUNCTION BOX WITH 10 FT. OF SPARE CABLE HAND COILED INSIDE. THE SIGN LIGHTS MAY BE INSTALLED BY OTHERS IN FUTURE.
- THE EXISTING ABANDONED NAVIGATION OBSTRUCTION WARNING LIGHTING SYSTEM, FOR THE SIGN PAINTED ON THE BRIDGE STEEL, SHALL BE REMOVED FROM THE BRIDGE. SINCE THE LIGHTING IS ABANDONED, IT CAN BE REMOVED AT ANY TIME ALLOWED BY THE ENGINEER. COAST GUARD COORDINATION WILL NOT BE REQUIRED. ALL 17 FIXTURES, MOUNTING DEVICES, CONDUITS, JUNCTION BOXES, SUPPORT ARMS, LIFTING DEVICES, WIRING, AND ELECTRICAL DEVICES SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THE BRIDGE SHALL ALSO BE TOUCHED UP AT THESE AREAS ACCORDING TO NOTE 14 IN THE GENERAL NOTES. ALL THESE ITEMS REMOVED FROM THE BRIDGE SHALL NOT BE SALVAGED AND SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTORS EXPENSE. THIS WORK SHALL BE PAID FOR UNDER "REMOVAL OF NAVIGATION OBSTRUCTION WARNING LIGHTING SYSTEM".
- THE LIGHT POLES # 14, 20, 30, 39, 41, 43, AND 45 ARE ALREADY REMOVED AND NOT INCLUDED IN QUANTITIES FOR REMOVAL OF EXISTING LIGHTING UNIT, **SALVAGE**.

GROUND MOUNTED POLE NOTES

- LIGHT POLES WITH VIDEO DETECTOR OR CCTV CAMERAS SHALL NOT BE REPLACED. CONTRACTOR SHALL RELAMP, CLEAN, AND SERVICE THE EXISTING LUMINAIRES ON THESE POLES. NEW SPLICES, FUSES, FUSE HOLDERS, AND SURGE PROTECTORS SHALL ALSO BE PROVIDED FOR THESE POLES. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY. THIS WORK SHALL BE PAID FOR UNDER "CLEAN, RE LAMP AND MAINTENANCE OF EXISTING LUMINAIRE" AND COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- FOUNDATIONS FOR GROUND MOUNTED LIGHT POLES SHALL BE REUSED, UNLESS DETERMINED TO BE UNACCEPTABLE BY THE ENGINEER. AFTER NEW UNIT DUCT IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY.
- CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE EXISTING LIGHTING AND CAMERA CIRCUITS. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- UNIT DUCT SHALL BE INSTALLED UNDER THE PAY ITEM TRENCH AND BACKFILL FOR ELECTRICAL WORK (T&B). DIRECTIONAL BORING MAY BE USED TO INSTALL UNIT DUCT OR CONDUIT WHERE APPROVED BY THE ENGINEER AND SHALL BE PAID FOR AS T&B.

CANAL BRIDGE NOTES (SN#060-0036 EB; 060-0037 WB)

- ALL EXISTING CABLE SHALL BE REPLACED.
- THE EXISTING 1 INCH AND 2 INCH RIGID ALUMINUM CONDUITS ATTACHED TO THE PARAPET WALLS AND TRUSS BRIDGE MEMBERS SHALL REMAIN. HORIZONTAL SECTIONS OF FLEXIBLE CONDUIT, AT JUNCTION BOXES ATTACHED TO THE PARAPET WALL, SHALL BE REMOVED AND REPLACED WITH 2 INCH RIGID ALUMINUM CONDUIT.
- RIGID 1 INCH ALUMINUM CONDUIT SHALL BE INSTALLED FROM JUNCTION BOXES ATTACHED TO THE PARAPET WALL AT LIGHT POLE FOUNDATIONS, UP INTO THE POLE PER THE PLAN DETAILS. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT MAY BE SUBSTITUTED FOR 1 INCH RIGID ALUMINUM CONDUIT TO THE POLE IF APPROVED BY THE ENGINEER.
- RIGID 1 INCH ALUMINUM CONDUITS RUNNING TO TRUSS MOUNTED LUMINAIRES, AVIATION LIGHTS, AND NAVIGATION LIGHTS SHALL REMAIN. ALL ASSOCIATED 1 INCH FLEXIBLE CONDUITS SHALL BE REPLACED WITH LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT.
- ALL CONDUIT CLAMPS, ATTACHMENT HARDWARE, AND FITTINGS THAT ARE RUSTED SHALL BE REPLACED.
- CONDUIT ON THE BRIDGE AND PARAPET WALLS SHALL BE SUPPORTED AT 6' INTERVALS.
- CONDUIT EXPANSION/DEFLECTION FITTINGS AT ALL BRIDGE EXPANSION JOINTS SHALL BE REPLACED AS NOTED IN THE PLANS. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT OR STAINLESS STEEL EXPANSION/DEFLECTION FITTINGS SHALL BE USED AND ARE INCLUDED IN THE COST OF THE CONDUIT.
- ALL STEEL PARTS AND FITTINGS PLACED ON THE BRIDGE SHALL BE STAINLESS STEEL, INCLUDING NUTS, BOLTS, AND WASHERS (UNLESS NOTED OTHERWISE). CONDUIT CLAMPS SHALL BE STAINLESS STEEL OR ENGINEER APPROVED EQUAL.
- THE CONTRACTOR SHALL NOT DRILL INTO OR WELD METAL PARTS ONTO BRIDGE STRUCTURAL MEMBERS.
- LIGHT POLES MOUNTED ON THE BRIDGE PARAPET WALL SHALL BE PROVIDED WITH VIBRATION ISOLATION MOUNTING PADS ACCORDING TO ARTICLE 1069.07 OF THE STANDARD SPECIFICATIONS. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY.
- LUMINAIRES MOUNTED ON THE TRUSS SPANS, SHALL HAVE NEW SPLICES, FUSES, FUSE HOLDERS, AND SURGE PROTECTORS INSTALLED IN THE JUNCTION BOXES ON THE PARAPET WALL.
- CONTRACTOR SHALL PROVIDE A 2KVA, 480-120/240V STEP DOWN TRANSFORMER PER ARTICLE 827 IMMEDIATELY BELOW THE FLASHER CONTROLLER FOR EACH AVIATION LUMINAIRE. IT SHALL HAVE A STAINLESS STEEL ENCLOSURE OR BE INSTALLED IN A STAINLESS STEEL JUNCTION BOX (6" X 12" X 8"). ALL GROUNDING, CONDUIT MODIFICATIONS, CONNECTIONS, AND APPURTENANCES SHALL BE INCLUDED IN THE COST OF THE TRANSFORMER.
- CONTRACTOR SHALL ENSURE NAVIGATION AND AVIATION LIGHTS REMAIN IN OPERATION THROUGHOUT CONSTRUCTION FOR THE DURATION OF THE CONTRACT PER ARTICLE 801.11 OF THE STANDARD SPECIFICATIONS. CONTRACTOR SHOULD REMOVE THE EXISTING CABLE FROM CONDUIT ON THE CANAL BRIDGE AND HANG IT FROM THE BRIDGE HANDRAIL SUPPORTS WITH NYLON SLINGS OR OTHER METHOD APPROVED BY THE ENGINEER. CABLE SHALL BE TEMPORARY SO AS NOT TO INTERFERE WITH PARAPET WALL REPAIRS AND SHALL BE USED TO POWER THE NAVIGATION AND AVIATION WARNING LIGHTS UNTIL NEW CABLE IS INSTALLED. TEMPORARY CABLE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AT THE CONTRACTORS EXPENSE. THIS WORK SHALL BE INCLUDED IN THE COST OF CABLE REMOVED.
- IN ADDITION TO CONDUIT MODIFICATIONS LISTED ABOVE IN NOTES 2 AND 3, THE EXISTING STAINLESS STEEL JUNCTION BOX AT EACH LIGHT POLE SHALL BE REMOVED TO ALLOW CONCRETE REPAIRS TO THE BRIDGE PARAPET WALLS. THESE JUNCTION BOXES SHALL BE REINSTALLED AFTER CONCRETE REPAIRS ARE COMPLETED. SEE PARAPET WALL MOUNTED CONDUIT DETAILS FOR MORE INFORMATION. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING JUNCTION BOX" AND INCLUDE ANY SPLICES AND TEMPORARY WIRING CONNECTIONS NEEDED TO MAINTAIN THE LIGHTING SYSTEM.
- REMOVAL OF ELECTRIC CABLE FROM CONDUIT SHALL BE PAID FOR PER FOOT OF CONDUIT LENGTH REGARDLESS OF THE NUMBER OF CONDUCTORS INSIDE.
- THE LIGHT POLE # 17 IS ALREADY REMOVED AND NOT INCLUDED IN QUANTITIES FOR REMOVAL OF EXISTING LIGHTING UNIT, **SALVAGE**.

COMMITMENTS
NONE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ELECTRICAL GENERAL NOTES

FAI ROUTE 270
 SECTION 60-(1,2)L-1
 MADISON COUNTY

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

Rev.