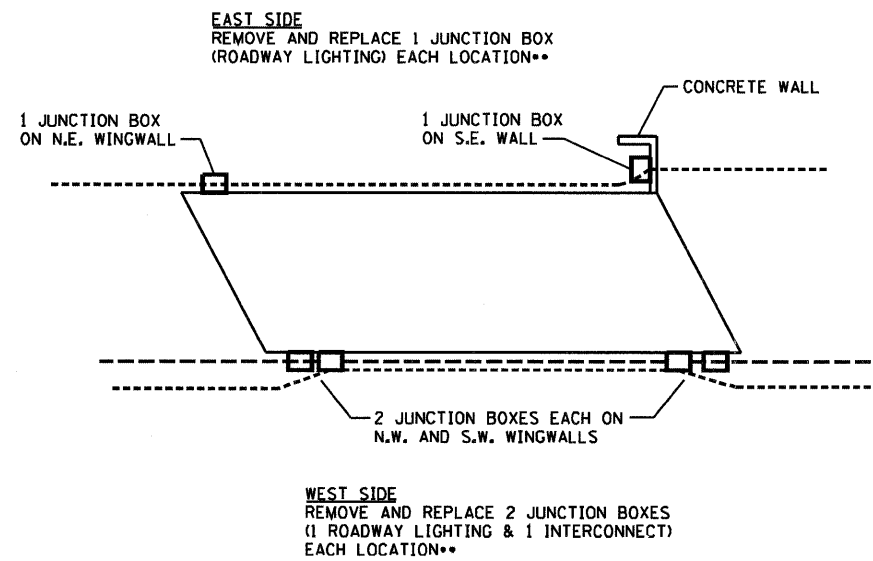


**INTERCONNECT AND UTILITY SCHEMATIC**  
NOT TO SCALE

**NOTES**

- EXISTING FIBER OPTIC CABLE SHALL BE PULLED OUT OF THE EXISTING CONDUIT, STARTING AT THE EXISTING CONTROLLER BOX AT IL-43 AND SOUTHWEST HIGHWAY (LOCATION #1), ALL THE WAY TO THE FIRST HANDHOLE NORTH OF THE BRIDGE (LOCATION #2). THIS CABLE SHALL BE SPOOLED UP NEAR LOCATION #2 AND PROTECTED ON-SITE FOR THE DURATION OF THE BRIDGE CONSTRUCTION. AFTER BRIDGE CONSTRUCTION IS COMPLETED AND NEW JUNCTION BOXES AND CONDUIT ARE IN PLACE, THE EXISTING CABLE SHALL BE REINSTALLED IN THE CONDUIT, ALL THE WAY BACK TO THE CONTROLLER BOX AT LOCATION #1. COST INCLUDED WITH "REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT".
- REMOVAL OF FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL ALL COMPONENTS OF THE TEMPORARY WIRELESS INTERCONNECT SYSTEM ARE IN PLACE AND OPERATIONAL.
- ESTIMATED LENGTH OF INTERCONNECT CABLE TO BE REMOVED AND REINSTALLED = 900 FEET.
- THE TWO EXISTING ROADWAY LIGHTING CABLES SHALL BE CUT AT THE JUNCTION BOXES AT THE NORTH END OF THE BRIDGE, PULLED THROUGH THE CONDUIT AND JUNCTION BOX AT THE SOUTH END OF THE BRIDGE TO THE NEAREST HANDHOLE SOUTH OF THE BRIDGE, THEN SPOOLED UP AND PROTECTED NEAR THAT LOCATION FOR THE DURATION OF THE BRIDGE CONSTRUCTION. AFTER BRIDGE CONSTRUCTION IS COMPLETE AND NEW CONDUIT AND JUNCTION BOXES ARE IN PLACE, THE EXISTING CABLE SHALL BE REINSTALLED, AND FIELD-SPLICED WITHIN THE NEW JUNCTION BOXES AT THE NORTH END OF THE BRIDGE. COST INCLUDED WITH "REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT".
- REMOVAL OF ROADWAY LIGHTING CABLE SHALL NOT BEGIN UNTIL ALL PARTS ARE IN PLACE AND FUNCTIONAL TO ALLOW THE CONTINUED OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- ESTIMATED LENGTH OF ROADWAY LIGHTING CABLE TO BE REMOVED AND REINSTALLED = 150 FEET AT EACH LOCATION (ONE ATTACHED TO EAST SIDE, ONE ATTACHED TO WEST SIDE), 300 FEET TOTAL.
- A NOMINAL QUANTITY OF 10 FEET OF NEW CONDUIT HAS BEEN PROVIDED AT EACH OF THE SIX JUNCTION BOX LOCATIONS, IN THE EVENT THAT CONDUIT IN THESE LOCATIONS NEEDS TO BE REMOVED AND REPLACED. REMOVAL OF THE EXISTING ROADWAY LIGHTING CONDUIT, IF NEEDED, SHALL BE PAID FOR AS "ROADWAY LIGHTING CONDUIT REMOVAL". REMOVAL OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CONDUIT, IF NEEDED, IS INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x10"x10" ".
- ANY HARDWARE OR ACCESSORIES REQUIRED TO ATTACH THE NEW CONDUIT TO THE NEW JUNCTION BOXES OR TO THE EXISTING CONDUIT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR "CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL".
- SEE TRAFFIC SIGNAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.



**DETAIL A**

**BILL OF MATERIAL**

81100700	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"x6"	EACH	4*
81300835	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x18"x10"	EACH	2*
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
89502200	MODIFY EXISTING CONTROLLER	EACH	2
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1200
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3
X0325938	TEMPORARY WIRELESS INTERCONNECT, COMPLETE	L SUM	1
XX003079	REMOVE JUNCTION BOX	EACH	6
XX007743	ROADWAY LIGHTING CONDUIT REMOVAL	FOOT	40

\* LARGE BOXES ARE FOR FIBER OPTIC INTERCONNECT CABLE;  
SMALL BOXES ARE FOR ROADWAY LIGHTING CABLE

PLOT DATE = 3/25/2009  
 FILE NAME = K:\11225602\Civil\1143\Sheets\Utilities\IL43.dgn  
 PLOT SCALE = 1/8"=1'-0"  
 SHEET NAME =  
 MODEL =  
 Default

**rjngroup**  
Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

DESIGNED -	B.B.	REVISED -	
DRAWN -	J.T.T.	REVISED -	
CHECKED -	M.K.	REVISED -	
DATE -	1/30/09	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL-43 OVER STONY CREEK  
STRUCTURE NO. 016-0322

INTERCONNECT SCHEMATICS

SCALE: 1/40

SHEET NO. 8 OF 35 SHEETS

STA.

TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3128-Z-B-1	COOK	35	8
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D70	