



**TEMPORARY INTERCONNECT SCHEMATIC**

**INTERCONNECT SCHEMATIC LEGEND**

- EXISTING INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER
- SAMPLING (SYSTEM) DETECTOR
- PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR
- EXISTING LOOP DETECTOR CABLE, 2/C TWISTED, SHIELDED
- EXISTING TRACER CABLE, NO. 14 1/C
- PROPOSED INTERCONNECT CABLE NO. 62.5/125, 24F MULTIMODE AND 12F SINGLE MODE
- PROPOSED LOOP DETECTOR CABLE, 2/C TWISTED, SHIELDED
- EXISTING TELEPHONE CONNECTION
- TEMPORARY RADIO INTERCONNECT ANTENNA

**INTERCONNECT SCHEMATIC NOTES**

1. ALL WORK SPECIFIED IN THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN SHALL BE COMPLETED ACCORDING TO THE MOST RECENT VERSION OF THE IDOT STANDARD SPECIFICATIONS AND DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THE GRAND AVENUE INTERSECTIONS WITH RIVERSIDE DRIVE AND O'PLAINE ROAD AND THE INTERCONNECT SYSTEM BETWEEN THE TWO INTERSECTIONS.
3. INSTALL A TEMPORARY WIRELESS INTERCONNECT SYSTEM TO MAINTAIN THE CONNECTION BETWEEN THE CONTROLLER AT RIVERSIDE DR AND THE O'PLAINE CONTROLLER THROUGHOUT THE DURATION OF CONSTRUCTION. REMOVAL OF THE EXISTING FIBER OPTIC SYSTEM SHALL NOT BEGIN UNTIL ALL COMPONENTS OF THE TEMPORARY WIRELESS INTERCONNECT SYSTEM ARE IN PLACE AND OPERATIONAL.
4. THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SYSTEM BETWEEN THE INTERSECTION OF RIVERSIDE DRIVE AND O'PLAINE SHALL BE WIRELESS INTERCONNECT ACCORDING TO THE TEMPORARY TRAFFIC SIGNAL SPECIFICATION OF THE DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS. THE ANTENNA SHALL BE PLACED ON THE EXISTING MAST ARM ASSEMBLY AND POLE LOCATED CLOSEST TO THE SIGNAL CONTROLLER AT EACH INTERSECTION AND CONNECTED TO THE EXISTING CONTROLLER. AT EACH INTERSECTION IT WILL BE NECESSARY TO INSTALL TEMPORARY RF CABLE BETWEEN THE ANTENNA AND CONTROLLER CABINET.
5. ALL NECESSARY CABLES, ANTENNA, AND OTHER COMPONENTS REQUIRED FOR FULLY FUNCTIONAL TEMPORARY RADIO INTERCONNECT SYSTEM SHALL BE INCLUDED AND PAID FOR AS THE ITEM TEMPORARY WIRELESS INTERCONNECT, COMPLETE.
6. THE ANTENNAE AND ALL CABLES SHALL BE REMOVED UPON COMPLETION OF THE PROPOSED FIBER OPTIC INTERCONNECT SYSTEM. ANY HOLES IN THE MAST ARMS SHALL BE PLUGGED. COST FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM TEMPORARY WIRELESS INTERCONNECT, COMPLETE.
7. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

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USER NAME = BernardB	DESIGNED - KC	REVISED -
	DRAWN - KC	REVISED -
PLOT SCALE =	CHECKED - MCH	REVISED -
PLOT DATE = 11/25/2013	DATE - 11/25/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 132 (GRAND AVE.) OVER DES PLAINES RIVER  
TEMPORARY INTERCONNECT SCHEMATICS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	X-6-B-1-1	LAKE	93	40A
<b>CONTRACT NO. 60N22</b>				
<small>ILLINOIS FED. AID PROJECT</small>				