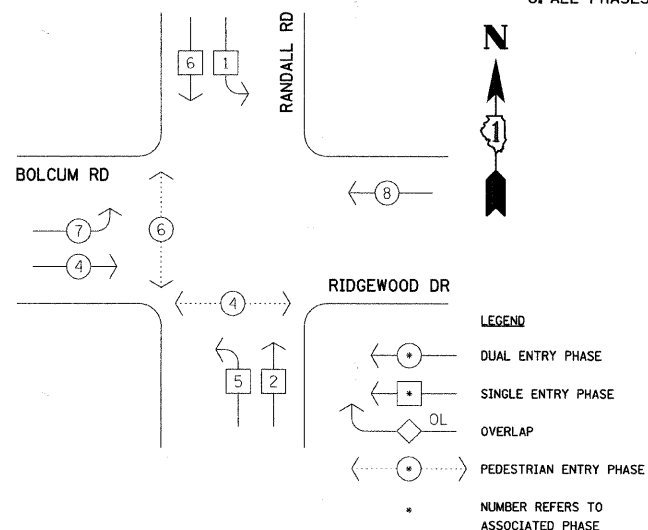


PROPOSED CABLE PLAN

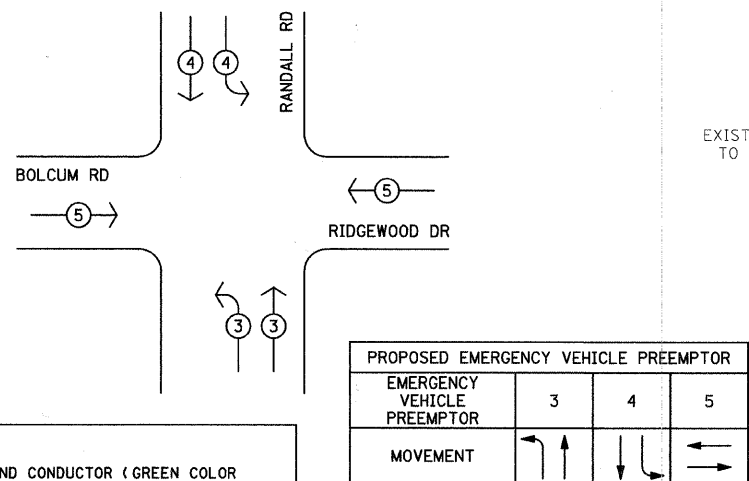
PROPOSED CONTROLLER SEQUENCE



- A. PLACE PHASES 2 AND 6 ON MINIMUM RECALL.
- B. DISABLE THE ANTI BACK UP RESTRICTION FOR PHASE 1 AND 5.
- C. ALL PHASES ARE DUAL ENTRY.

PROPOSED PHASE DESTINATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

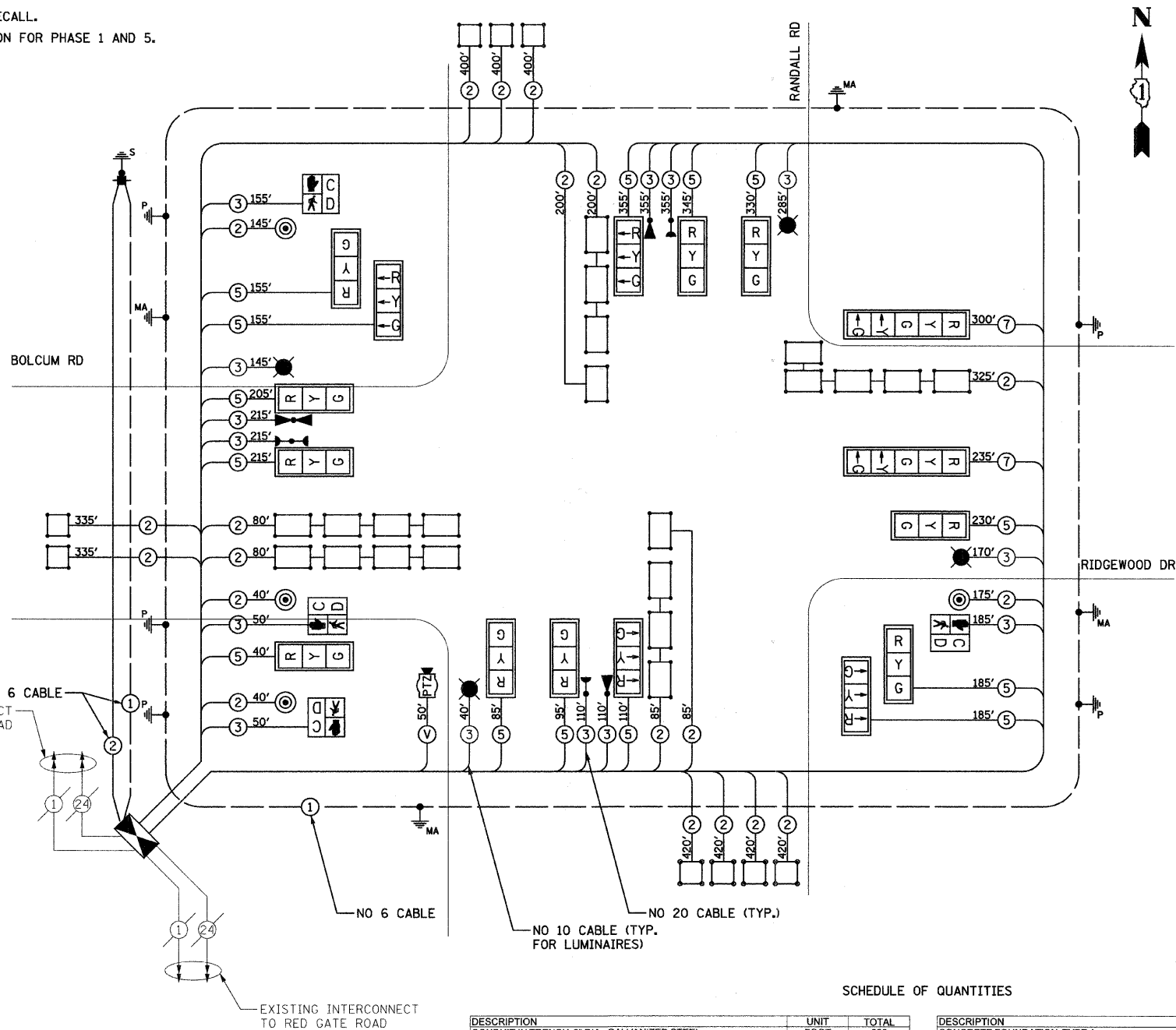


NOTE:
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	4	90	25	1.00	100.00
CONTROLLER	1	100	100	1.00	100.00
VIDEO SYSTEM	1	150	-	1.00	150.00
LUMINAIRES	4	-	250	0.50	500.00
ENERGY COSTS TO:					TOTAL = 1,091.20

KANE COUNTY DIVISION OF TRANSPORTATION
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175
CONTACT: ROSE PECARARO
PHONE: (847) 608-2331
COMPANY: COM ED

- NOTES:**
- ALL TRAFFIC SIGNAL CABINET DATA INCLUDING THAT FROM THE PROPOSED PTZ CAMERA, TRAFFIC SIGNAL CONTROLLER, MALFUNCTION MANAGEMENT UNIT, AND UNINTERRUPTIBLE POWER SUPPLY SHALL BE CONVEYED THROUGH THE COUNTY'S ATMS NETWORK VIA ETHERNET PROTOCOL FOR DIRECT COMMUNICATIONS TO/FROM THE KDOT OFFICE.
 - THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "SIEMENS" TO MATCH THE EXISTING ADJACENT SYSTEM.
 - THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.



SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL	DESCRIPTION	UNIT	TOTAL
CONDUIT IN TRENCH 2" DIA. GALVANIZED STEEL	FOOT	800	CONCRETE FOUNDATION, TYPE A	FOOT	20
CONDUIT IN TRENCH 1 1/2" DIA. GALVANIZED STEEL	FOOT	60	CONCRETE FOUNDATION, TYPE D	FOOT	4
CONDUIT IN TRENCH 3" DIA. GALVANIZED STEEL	FOOT	60	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
CONDUIT IN TRENCH 4" DIA. GALVANIZED STEEL	FOOT	25	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	175	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL	FOOT	330	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
HANDHOLE	EACH	6	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
HEAVY-DUTY HANDHOLE	EACH	2	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
DOUBLE HANDHOLE	EACH	1	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2 NO. 10	FOOT	1900	COUNTDOWN TIMER	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	945	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4	DETECTOR LOOP, TYPE I	FOOT	1350
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	LIGHT DETECTOR	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	LIGHT DETECTOR AMPLIFIER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1	PEDESTRIAN PUSH-BUTTON	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	400	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1150	FIBER OPTIC CABLE SPLICE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2700	ETHERNET SWITCH	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	550	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 1 PAIR	FOOT	350	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1100	ELECTRIC CABLE IN CONDUIT NO. 20 3/C TWISTED, SHIELDED	FOOT	700
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR	FOOT	450	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	200	TEST HOLE	EACH	8
TRAFFIC SIGNAL POST, 10 FT.	EACH	2	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ	EACH	1
TRAFFIC SIGNAL POST, 14 FT.	EACH	2	CAMERA	EACH	1
TRAFFIC SIGNAL POST, 16 FT.	EACH	1	NETWORK CONFIGURATION	L SUM	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	2	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	750
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

FILE NAME: N:\N\PROJ\31853\Design\SIGNAL\31853-19-SIGNAL_CABLE.PLT

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = espino	DESIGNED - RJR	REVISED -
PLOT SCALE = 1:8000 1/2 IN.	DRAWN - RJR	REVISED -
PLOT DATE = 1/4/2011	CHECKED - MJL	REVISED -
	DATE - 12-20-2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,
SCHEDULE OF QUANTITIES
RANDALL ROAD AND BOLCUM ROAD - PROPOSED**

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

F.A.-RTE. 336	SECTION 04-00325-00-TL	COUNTY KANE	TOTAL SHEETS 54	SHEET NO. 30
CONTRACT NO. 63547			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	