EJM ENGINEERING, INC. 411 South Wells Street Suite 1000 Chicago, Illinois 60607

TYPE

IGNAL (RED)

(YELLOW)

(GREEN)

PED. SIGNAL

ONTROLLER

ED SIGN (6'+)

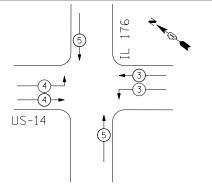
FLASHER

RROW

SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EA	4
SIGN PANEL - TYPE 1	SF	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FT	1660
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FT	45
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FT	140
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FT	680
HANDHOLE	EA	7
HEAVY-DUTY HANDHOLE	EA	4
DOUBLE HANDHOLE	EA	2
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EA	1
TRANSCEIVER - FIBER OPTIC	EA	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FT	752
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	2609
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	2318
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 141 PAIR	FT	4963
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FT	39
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EA	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT.	EA	1
CONCRETE FOUNDATION, TYPE A	FT	16
CONCRETE FOUNDATION, TYPE C	FT	4
CONCRETE FOUNDATION, TYPE E 36 INCH DIAMETER	FT	54
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EA	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EA	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EA	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EA	2
FRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EA	10
NDUCTIVE LOOP DETECTOR	EA	16
LIGHT DETECTOR	EA	3
LIGHT DETECTOR AMPLIFIER	EA	1
FEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	1
REMOVE EXISTING HANDHOLE	EA	10
REMOVE EXISTING CONCRETE FOUNDATION	EA	6
PREFORMED DETECTOR LOOP	FT	769
TEMPORARY TRAFFIC SIGNAL TIMING	EA	1
SERVICE INSTALLATION - POLE MOUNTED	EA	1
WASTER CONTROLLER (SPECIAL)	EA	1
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EA	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 61C	FT	924
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED	FT	752

Ш NO. 6 -LED STREET NAME SIGN (TYP.) PROP. INTERSECTION AND SAMPLING (SYSTEM)-DETECTORS CALLING-LOOPS PROP. INTERCONNECT TO RIDGEFIELD RD. (SOUTH МΑ TRACER CABLE LOCAL AND MASTER-CONTROLLERS PROP. INTERSECTION AND SAMPLING (SYSTEM)
DETECTORS CABLE PLAN EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5			
MOVEMENT	<u> </u>	=	↓ ↑			

TOTAL

WATTAGE

153.00

112.50

67.50

100.00

240.00

9.6

% OPERATIONS

0.25

0.25

0.10

1.00

0.50

0.50

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
THE EMERGENCY PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL
BE "OPTICOM" BRAND TO MATCH THE EXISTING CITY SYSTEM.

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH, AND BACKFILL ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC, SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ENERGY COSTS TO:

NO. OF LAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

WATTAGE

NCAND. LED

25

12

25

25

120

135

135

135

90

100

DIVISION OF HIGHWAYS/DISTRICT 1 SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: PHONE:

MIKE WIDHALM (815) 263-5624 COMED

FILE NAME : USER NAME = rswanson DESIGNED -GR REVISED ...\D162517-SHT-TSØ3B.dgn DRAWN GR REVISED PLOT SCALE = 20:1 CHECKED REVISED PLOT DATE = 6/6/2014 DATE 10/15/2013 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		QUANTITIES, CABLE PLAN,			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE.
	AND			ENCE	305	27R-3	MCHENRY	431	303
US RTE. 14 AND IL RTE. 176						CONTRACT	NO.	62517	
	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

LEGEND

PROP. INTERSECTION AND -SAMPLING (SYSTEM) DETECTORS

US ROUTE 14 (NORTHWEST HWY.)

PROP. INTERCONNECT TO WOODSTOCK ST.

TRACER CABLE

PROP. INTERSECTION -AND SAMPLING (SYSTEM)
DETECTORS

→ DUAL ENTRY PHASE

CONTROLLER SEQUENCE

(8)(3)

◆ SINGLE ENTRY PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP

PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE