

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
40	SQ FT.	SIGN PANEL - TYPE 1
73	SQ FT.	REMOVE SIGN PANEL - TYPE 1
53	SQ FT.	RELOCATE SIGN PANEL - TYPE 1
126	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
126	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
* 1101	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2294	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
937	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT.
60	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
4	EACH	DRILL EXISTING HANDHOLE
9	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE
* 4	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	MODIFY EXISTING CONTROLLER
1510	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
102.8	SQ FT.	TEMPORARY INFORMATION SIGNING
1	EACH	UNINTERRUPTABLE POWER SUPPLY
* 1101	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

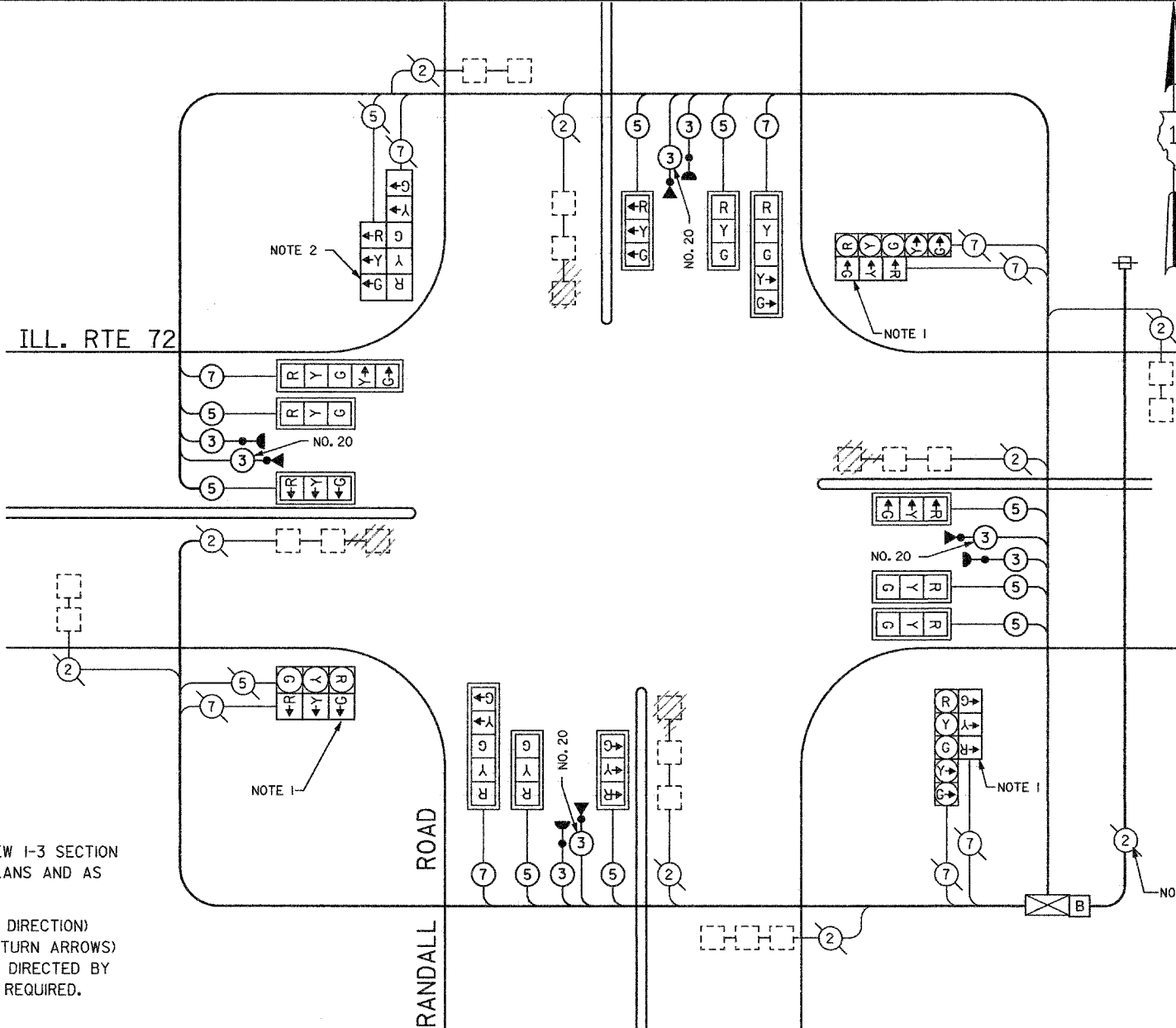
* 100% COST TO CITY OF ELGIN

NOTE 1: REMOVE EXISTING 1-5 SECTION BRACKET MOUNTED LED SIGNAL HEAD AND INSTALL NEW 1-3 SECTION BRACKET MOUNTED LED SIGNAL HEAD WITH LEFT TURN ARROWS WHERE NOTED ON PLANS AND AS DIRECTED BY THE ENGINEER.

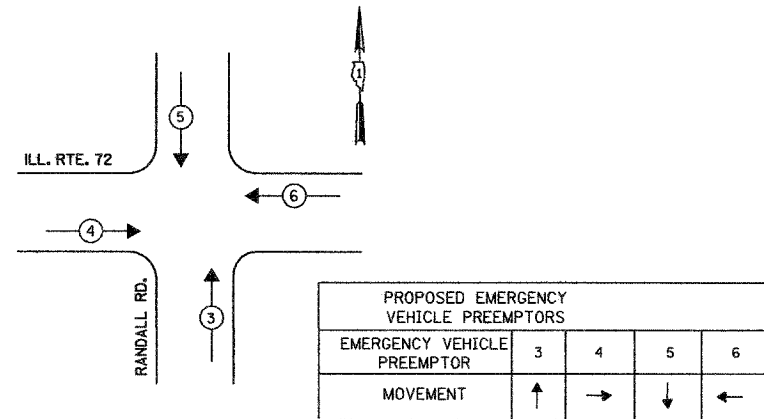
NOTE 2: REMOVE EXISTING 2-FACE, 1-3 SECTION (FOR SB DIRECTION) AND 1-5 SECTION (FOR NB DIRECTION) SIGNAL HEAD AND INSTALL NEW 2-FACE, 1-3 SECTION (FOR NB DIRECTION WITH LEFT TURN ARROWS) AND 1-5 SECTION (FOR SB DIRECTION) SIGNAL HEAD AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CABLE CONNECTIONS SHALL BE MODIFIED IN THE CONTROLLER AS REQUIRED.

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
		SIGNAL FACE WITH BACKPLATE. *P* INDICATES PROGRAMMED HEAD.
E'	E'	RAILROAD CONTROL CABINET
E'	E'	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
E'	E'	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		LOCAL AND MASTER CONTROLLER
V	V	VIDEO CAMERA ASSEMBLY
B	B	UPS - BATTERY BACK-UP SYSTEM



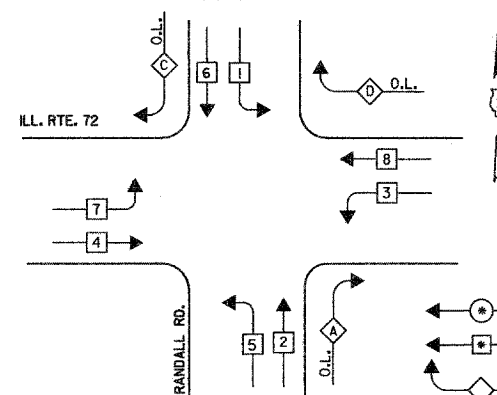
EMERGENCY VEHICLE PREEMPTION SEQUENCE



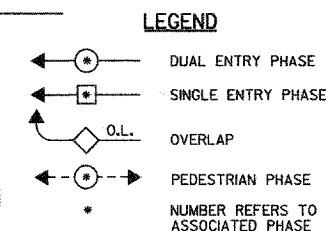
CABLE PLAN

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



Mc.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE	%OPERATION		
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	12	135	12	0.10	14.40
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN				0.05	
ARROW (RED)	8	135	12	0.50	48.0
(YELLOW)	8	135	12	0.25	24.0
(GREEN)	8	135	12	0.25	24.0
FLASHER				0.50	
TOTAL =					432.4

ENERGY COSTS TO: TOTAL = 432.4

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: CRISTI BUTTS
PHONE: 847-608-2331
COMPANY: COMED

FILE NAME =	USER NAME = #USER#	DESIGNED - PKG/RDP	REVISED -
#FILE#		DRAWN - MAA/RDP	REVISED -
		CHECKED - PKG	REVISED -
		DATE - 12-06-2007	REVISED -

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A-POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' H-2=
E-M.ARM POLE		SIGNAL POST	2 (1.0)		(6m H.-0.6m)=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES
ILL. RTE. 72 AT RANDALL ROAD

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	2007-059 L	KANE	21	10
CONTRACT NO. 60D98				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				