




























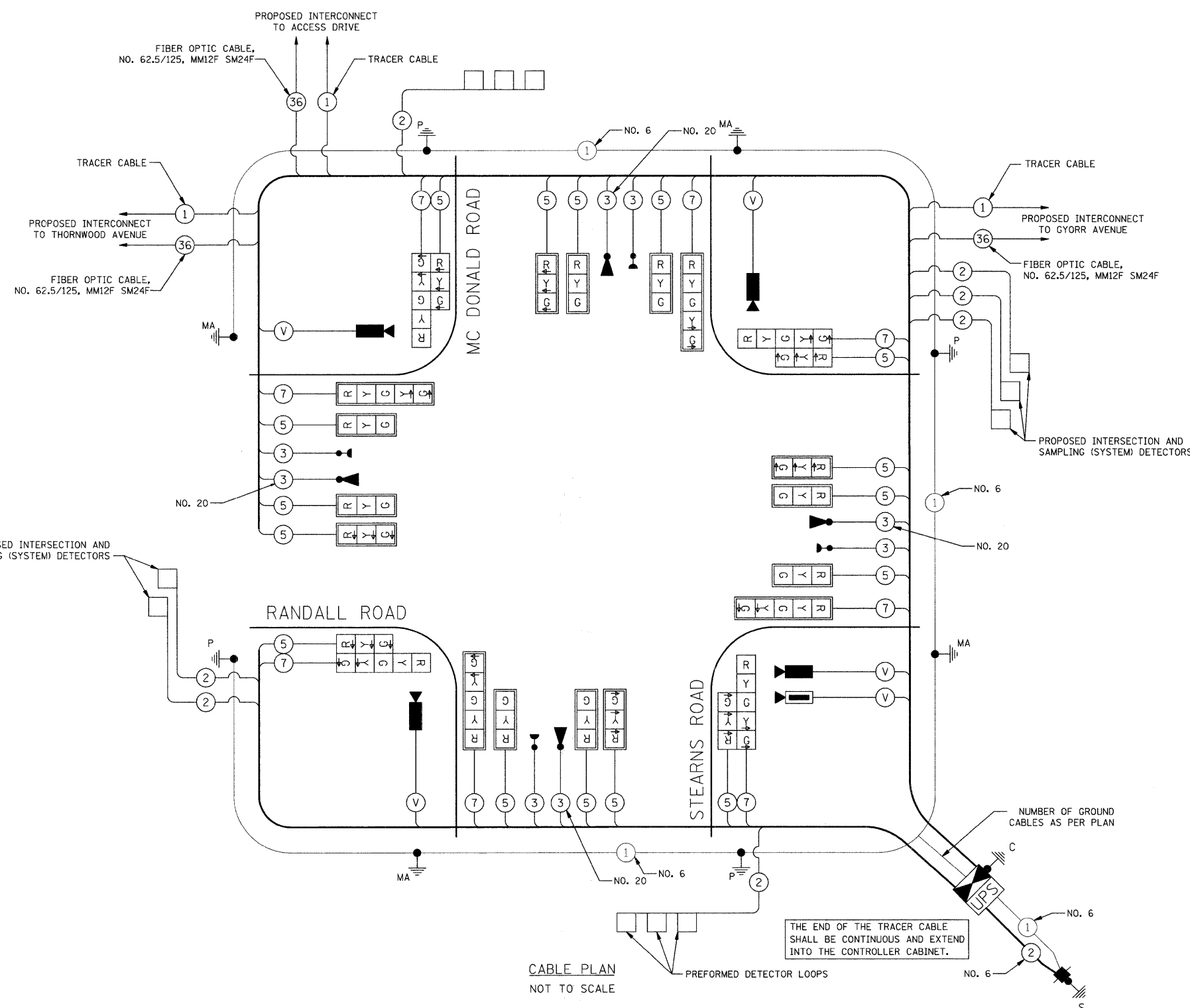


CABLE PLAN LEGEND

- EXISTING PROPOSED
-  8" (200mm) TRAFFIC SIGNAL SECTION
 -  12" (300mm) TRAFFIC SIGNAL SECTION
 -  12" (300mm) PEDESTRIAN SIGNAL SECTION
 -  12" (300mm) PEDESTRIAN SIGNAL SECTION
 -  CONTROLLER CABINET
 -  SERVICE INSTALLATION
 -  TELEPHONE CONNECTION
 -  MAGNETIC DETECTOR
 -  EMERGENCY VEHICLE LIGHT DETECTOR
 -  CONFIRMATION BEACON
 -  PUSHBUTTON DETECTOR
 -  VEHICLE DETECTOR, INDUCTION LOOP
 -  DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
 -  MICROWAVE VEHICLE SENSOR
 -  SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
 -  RAILROAD CONTROL CABINET
 -  ILLUMINATED SIGN "NO LEFT TURN"
 -  ILLUMINATED SIGN "NO RIGHT TURN"
 -  GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
 -  GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
 -  GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 -  GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 -  FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
 -  COAXIAL CABLE
 -  VENDOR SPECIFIED CABLE
 -  IMAGE SENSOR
 -  STREET LIGHT LUMINAIRE
 -  DOME PAN/TILT/ZOOM (PTZ) CAMERA
 -  UNINTERRUPTIBLE POWER SUPPLY



CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	24	INCAND.	17	0.50	204
(YELLOW)	24	LED	25	0.25	150
(GREEN)	24		15	0.25	90
ARROW	16		12	0.10	19
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
TOTAL =					713

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 (2.0)
D- CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'=
E- M. ARM POLE		SIGNAL POST	2 (1.0)	6m+L-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)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ENERGY COSTS TO: VILLAGE OF SOUTH ELGIN
10 N. WATER STREET
SOUTH ELGIN, IL 60177
CONTACT: MARTY RUBIN
PHONE: (847) 608-2400
COMPANY: COM ED

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