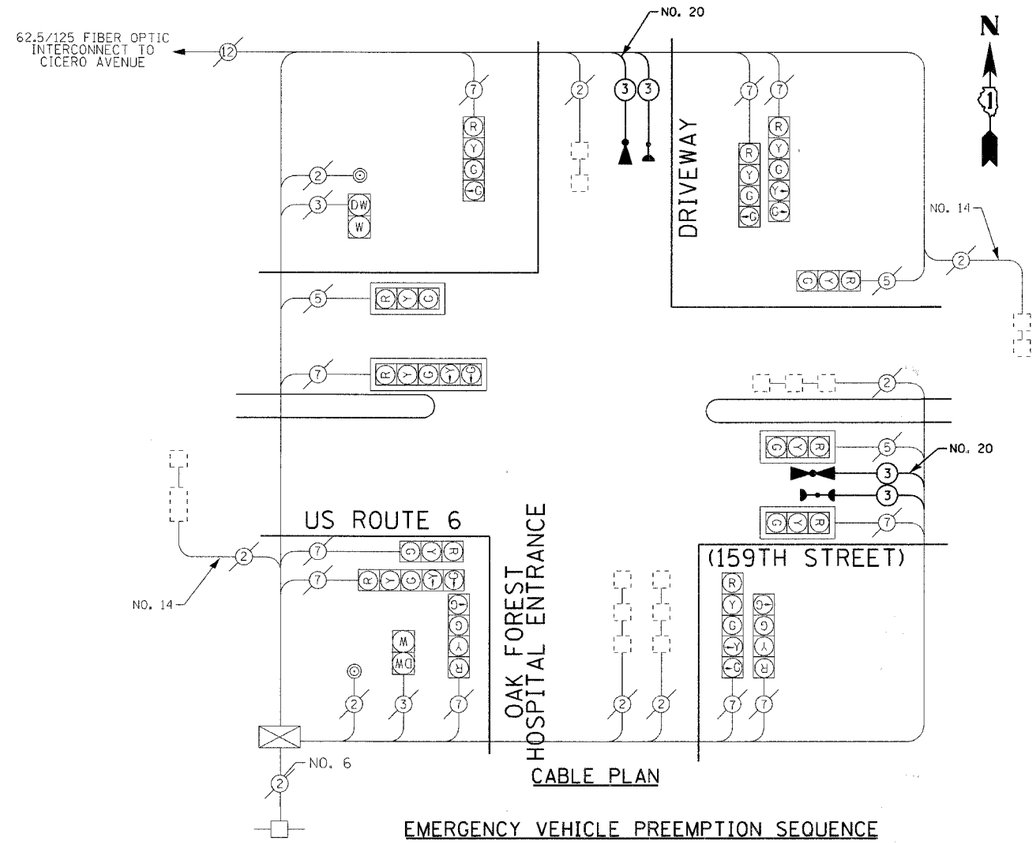
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00146-00-TL	COOK	273	212
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT M-8003 (867)		

CONTRACT NO. 63033

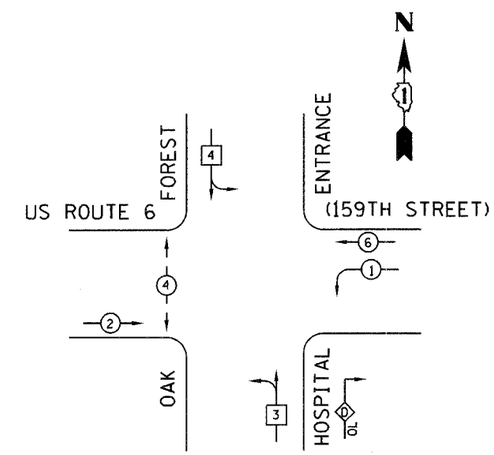
CABLE PLAN LEGEND

EXISTING	PROPOSED	
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
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE CONNECTION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS. ALL EXISTING 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
R Y G G S	R Y G G S	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
"P"	"P"	
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, "NO LEFT TURN"
"E"		ILLUMINATED SIGN, "NO RIGHT TURN"
		GROUND CABLE 1C NO.6
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		LUMINARE



CABLE PLAN

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

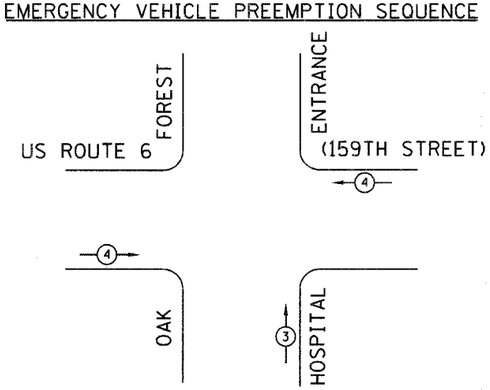
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE		DISPLAY
D	=	8	+	1	-	1

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

N

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	↑	⇄

EXISTING TRAFFIC SIGNAL SEQUENCE OF OPERATIONS

MOVEMENT	6 1 OL						6 2			3					4 P1 P1 4				FLASH
PHASE	1+6						2+6			3					4				
CHANGE TO		2+6	3		4			4,3			1+6		4 2+6				3, 1+6 2+6		
INTERVAL	1	2	3A	3B	4A	4B	5	6A	6B	7	8A	8B	9A	9B	10	11	12A	12B	
159TH STREET (US ROUTE 6) E/B NEAR RIGHT AND MID MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R
159TH STREET (US ROUTE 6) E/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R
159TH STREET (US ROUTE 6) W/B MID MAST ARM SIGNAL	G	G	Y	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R
159TH STREET (US ROUTE 6) W/B FAR LEFT AND END MAST ARM SIGNALS	G →G	G →Y	Y	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R
OAK FOREST HOSPITAL DRIVE N/B NEAR RIGHT AND FAR RIGHT SIGNALS	R G→	R Y→	R G→	R G→	R Y→	R	R	R	R	G	Y G→	R G→	Y	R	R	R	R	R	R
OAK FOREST HOSPITAL DRIVE N/B FAR LEFT AND FAR CENTER SIGNALS	R	R	R	R	R	R	R	R	R	G →G	Y	R	Y	R	R	R	R	R	R
PRIVATE DRIVEWAY S/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G →G	G →G	Y	R	R
PEDESTRIAN SIGNAL CROSSING-WEST LEG U.S. 6 (159TH ST)	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W•	FL•• DW	DW	DW	DARK

• TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

•• FLASHING "DONT WALK" IS TO TERMINATE AT THE COMPLETION OF PEDESTRIAN CLEARANCE INTERVAL.

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED SHIELDED	FOOT	471
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	471
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	15

CITY OF OAK FOREST
LOCATION NO. 102

BAXTER & WOODMAN
Consulting Engineers

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN,
EMERGENCY VEHICLE PREEMPTION
SEQUENCE OF OPERATION,
PHASE DESIGNATION DIAGRAM &
TRAFFIC SIGNAL SEQUENCE OF OPERATIONS
159TH STREET (US ROUTE 6) AND
OAK FOREST HOSPITAL ENTRANCE

SCALE: NONE DRAWN BY: MAC
DATE: 01-02-08 CHECKED BY: LDH

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