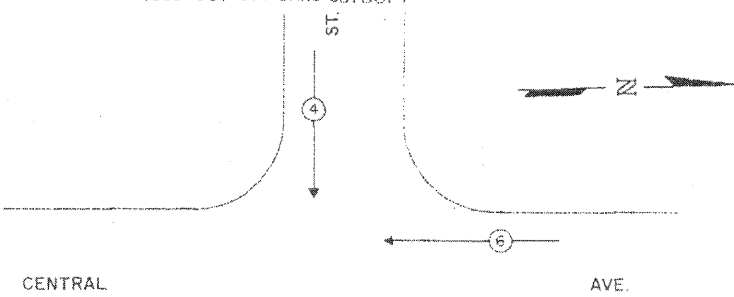


**CABLE PLAN**  
NO SCALE

STANDARD CONTROLLER SEQUENCE  
(SEE IDOT STANDARD 657001)

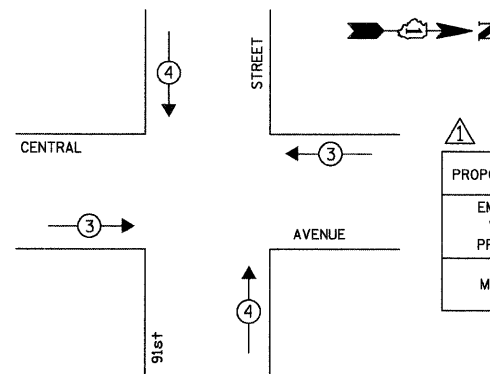


CENTRAL AVE.

**PHASE DESIGNATION DIAGRAM**  
NO SCALE

DUAL ENTRY - ALL LEGS

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

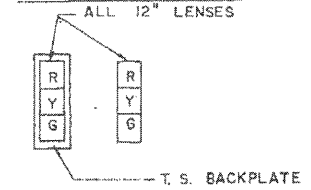
**CABLE PLAN LEGEND**

- [R] 12" TRAFFIC SIGNAL SECTION
- [C] CONTROLLER CABINET
- [S] SERVICE INSTALLATION
- [□] VEHICLE DETECTOR, INDUCTION LOOP
- (2) DENOTES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED
- [R Y G] 12 INCH SIGNAL FACE WITH BACKPLATE
- [GND] GROUNDING SYSTEM CONNECTION
- [S] SHIELDED & TWISTED EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON

**SIGNAL LENSES**

- R RED
- Y YELLOW
- G GREEN
- ← Y → YELLOW TURN INDICATOR
- ← G → GREEN TURN INDICATOR

**SIGNAL FACES**



**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	257
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	257
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

CARE IS TO BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGE TO THE EXISTING TRAFFIC SIGNAL CONDUIT, DETECTORS, AND EQUIPMENT. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CONDUIT OR EQUIPMENT AT NO COST TO THE COUNTY OR VILLAGE.

**INSTALLATION OF EMERGENCY VEHICLE PREEMPTION**

**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
2575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 923-0500

COUNTY OF COOK  
DEPARTMENT OF HIGHWAYS  
McDONOUGH ASSOCIATES, INC.  
ENGINEERS ARCHITECTS

CABLE PLAN AND  
BILL OF MATERIALS  
CENTRAL AVENUE AT 91ST STREET

COMPUTED: RKT APPROVED: \_\_\_\_\_  
DRAWN: GYR  
CHECKED: RKT CHIEF ENGINEER OF DESIGN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE (INCAND.)	LED % OPERATION	
SIGNAL (RED)	14	135	0.50	945.00
(YELLOW)	14	135	0.25	472.50
(GREEN)	14	135	0.25	472.50
ARROW	-	135	0.10	-
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	252	0.05	-
FLASHER	-	-	0.50	-
ENERGY COSTS TO:				TOTAL = 1990.00

COOK COUNTY HIGHWAY DEPARTMENT  
69 WEST WASHINGTON ROOM 2139  
CHICAGO, ILLINOIS 60602-3134  
ENERGY SUPPLY CONTACT: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO 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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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'±L-2"
E - M. ARM POLE	10 (3.0)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

UPDATED BY CCHD 7/97

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