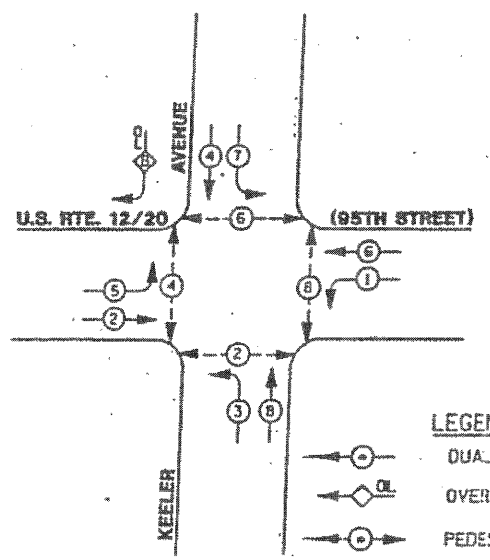


### CABLE PLAN LEGEND

<b>EXISTING</b>	<b>PROPOSED</b>	
		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 INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		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 (HH), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON

### CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



### LEGEND

	DUAL ENTRY PHASE
	OVERLAP
	PEDESTRIAN PHASE

\* NUMBER REFERS TO ASSOCIATED PHASE

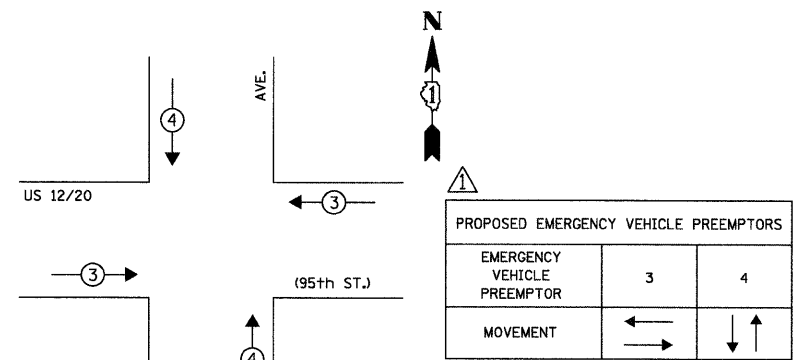
**PHASE DESIGNATION DIAGRAM**

DUAL ENTRY - ALL LEGS  
PROTECTED/PERMITTED LEFT TURN PHASING  
WITH RIGHT TURN OVERLAPS

### RIGHT TURN OVERLAP PHASE DESIGNATION

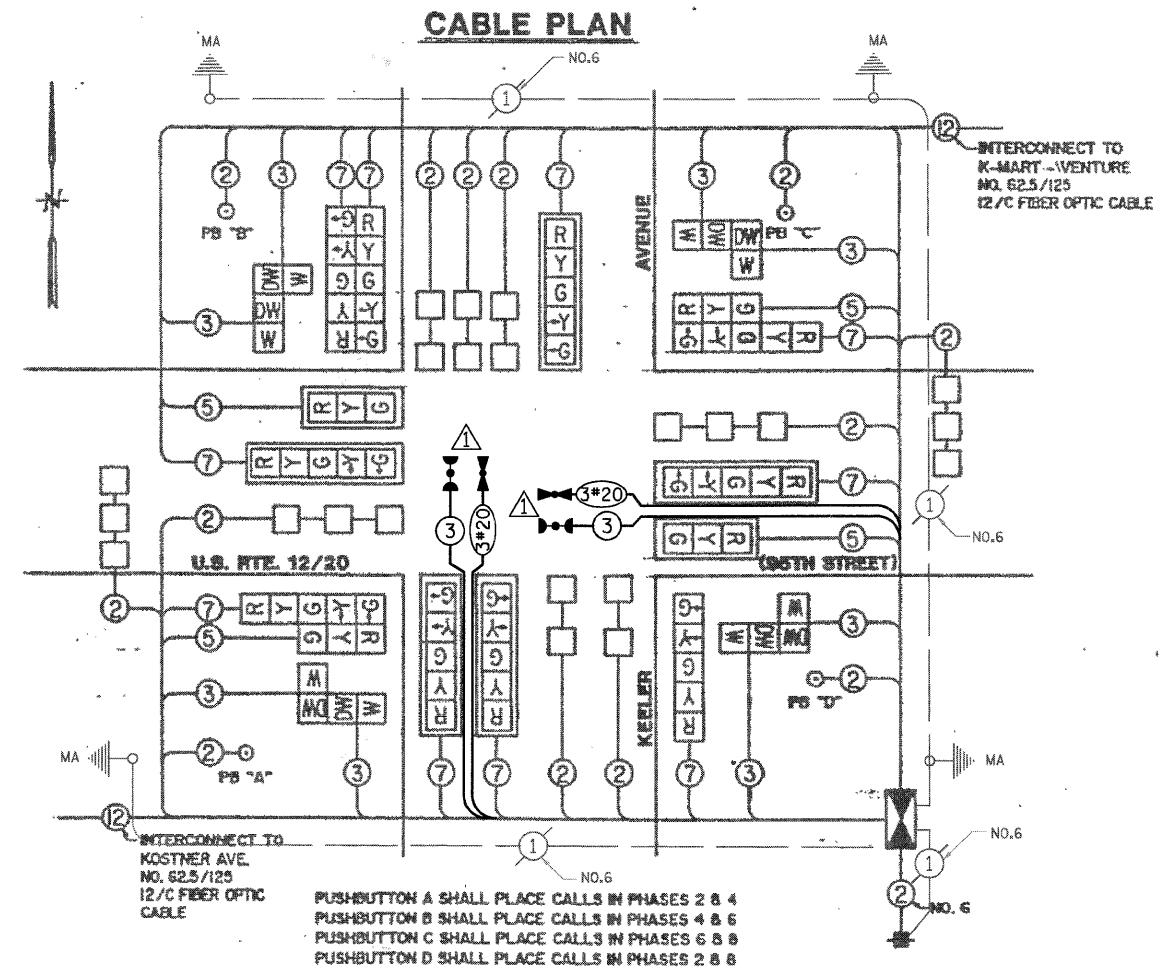
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	4	5	4

EMERGENCY VEHICLE PREEMPTION SEQUENCE



THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



PUSHBUTTON A SHALL PLACE CALLS IN PHASES 2 & 4  
PUSHBUTTON B SHALL PLACE CALLS IN PHASES 4 & 6  
PUSHBUTTON C SHALL PLACE CALLS IN PHASES 6 & 8  
PUSHBUTTON D SHALL PLACE CALLS IN PHASES 2 & 8

### SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	253
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	253
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED X % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	0.50	945.00
(YELLOW)	14	135	0.25	472.50
(GREEN)	14	135	0.25	472.50
ARROW	20	135	0.10	270.00
PED. SIGNAL	8	90	1.00	720.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	252	0.05	-

ENERGY COSTS TO: TOTAL = 2980.00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: MILTON RAY  
PHONE: (708) 235-2315  
COMPANY: COMED

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 (0.5)	(6m-H-0.6m)=	
	24" (600mm)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
	30" (750mm)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
	36" (900mm)	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)

### REVISIONS

NAME	DATE
CBBEL	3/20/08

DEPARTMENT OF TRANSPORTATION  
**U.S. RTE. 12/20 (95TH ST.)**  
**CONTROLLER SEQUENCE IV**  
**RIGHT TURN OVERLAP PHASE DESIGNATION**  
**CABLE PLAN**  
**SCHEDULE OF QUANTITIES**  
U.S. 12/20 @ KEELER AVE.  
DATE 10/8/93  
DRAWN BY CJS  
CHECKED BY RAC