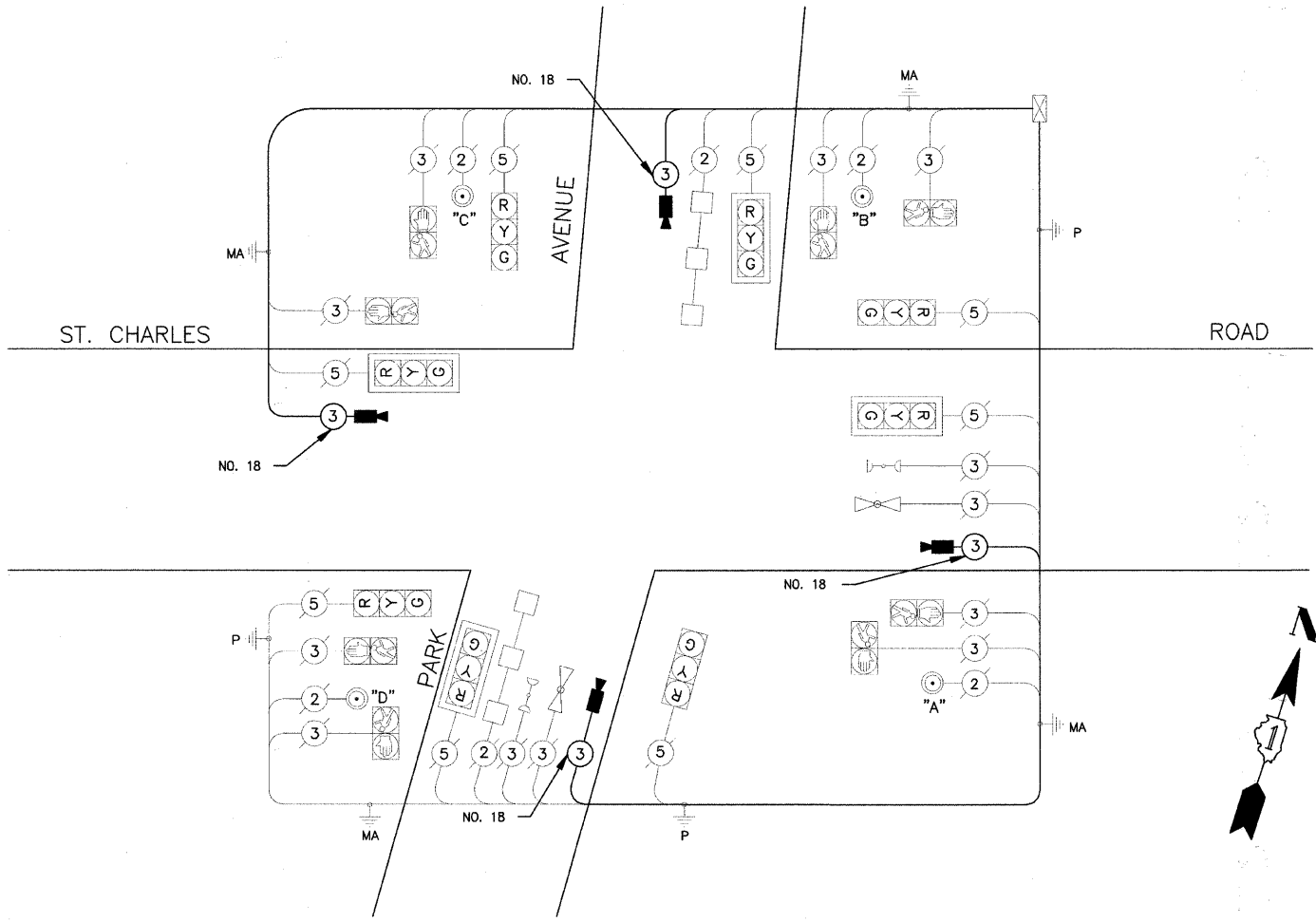


**CABLE PLAN LEGEND**

- |                 |                 |   |
|-----------------|-----------------|---|
| <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 WITH COUNTDOWN TIMER  |
|                 |                 | CONTROLLER CABINET  |
|                 |                 | SERVICE INSTALLATION  |
|                 |                 | TELEPHONE INSTALLATION  |
|                 |                 | VEHICLE DETECTOR, INDUCTION LOOP  |
|                 |                 | MAGNETIC DETECTOR   |
|                 |                 | EMERGENCY VEHICLE LIGHT DETECTOR  |
|                 |                 | CONFIRMATION BEACON   |
|                 |                 | PUSHBUTTON DETECTOR   |
|                 |                 | DENOTES NUMBER OF CONDUCTORS.<br>ALL CABLE NO. 14 EXCEPT AS INDICATED.<br>ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|                 |                 | GROUND CABLE IN CONDUIT<br>NO. 6 SOLID COPPER (GREEN)   |
|                 |                 | FIBER OPTIC CABLE IN CONDUIT<br>NO. 62.5/125 2-MM12F SM12F  |
|                 |                 | SIGNAL FACE WITH BACKPLATE.<br>"P" INDICATES PROGRAMMED HEAD.   |
|                 |                 | IMAGE SENSOR  |
|                 |                 | LUMINAIRE   |
|                 |                 | RAILROAD CONTROL CABINET  |
|                 |                 | ILLUMINATED SIGN<br>"NO LEFT TURN"  |
|                 |                 | ILLUMINATED SIGN<br>"NO RIGHT TURN"   |
|                 |                 | GROUND ROD AT HANDHOLE (H),<br>DOUBLE HANDHOLE (H), OR CONTROLLER (C)   |
|                 |                 | GROUND ROD AT POST (P)<br>OR MAST ARM POLE (MA)   |
|                 |                 | GROUND ROD AT ELECTRIC<br>SERVICE INSTALLATION  |
|                 |                 | RADIO INTERCONNECT ANTENNA  |
|                 |                 | COAXIAL CABLE   |



**CABLE DIAGRAM**

NOTE: PUSH BUTTON "A" PLACES A CALL TO PHASES 2 AND 8  
 PUSH BUTTON "B" PLACES A CALL TO PHASES 8 AND 6  
 PUSH BUTTON "C" PLACES A CALL TO PHASES 6 AND 4  
 PUSH BUTTON "D" PLACES A CALL TO PHASES 4 AND 8

**SCHEDULE OF QUANTITIES**

DESCRIPTION	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	183
VIDEO DETECTION SYSTEM, COMPLETE INTERSECTION	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 18 3C	FOOT	556
VIDEO TRANSMISSION SYSTEM	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	17	0.50	68
(YELLOW)	8	25	0.25	50
(GREEN)	8	15	0.25	30
ARROW	-	-	-	-
PED. SIGNAL	8	25	1.00	200
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
DET. CAMERA	4	25	1.0	100
TOTAL =				548.0

ENERGY COSTS BILLED TO:  
 (ADDRESS) VILLAGE OF LOMBARD  
 255 E. WILSON AVE.  
 LOMBARD, IL 60148-3931

ENERGY SUPPLY CONTACT:  
 PHONE:  
 COMPANY: COMMONWEALTH EDISON



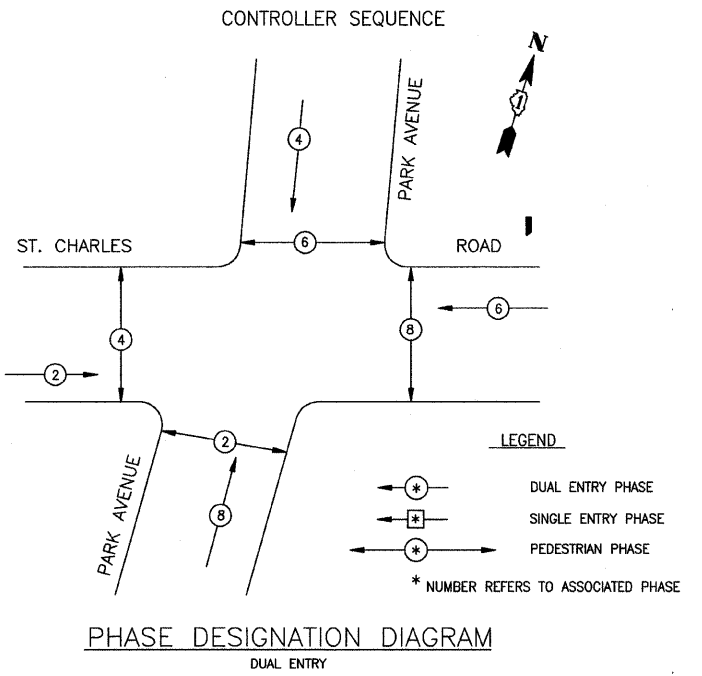
DESIGNED - TMS  
 DRAWN - KAR  
 CHECKED - JJF  
 DATE - 06-26-09

REVISED - PER VILLAGE REVIEW 09-16-09  
 REVISED - PER IDOT REVIEW 09-17-0

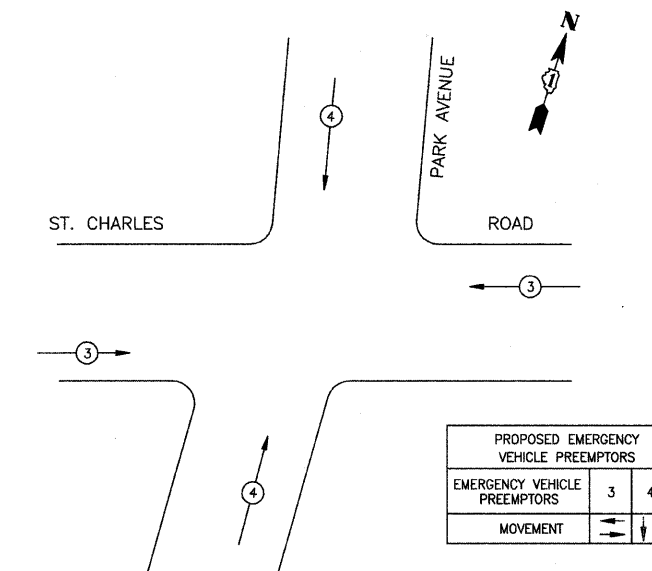
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION CABLE PLAN  
 ST. CHARLES ROAD**

SCALE: NONE PROJECT NO: 090317 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-ARA-8003(421)



**PHASE DESIGNATION DIAGRAM**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	→

I:\LOMBARD\090317-St. Char. LAPP\CADD-SURVEY\DRAWINGS\DWG\090317-SIG-CBLE.dwg - ST.CHARLES-PRK  
 Plotted: 2-08-10 8:46:30 AM By: 6500m  
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