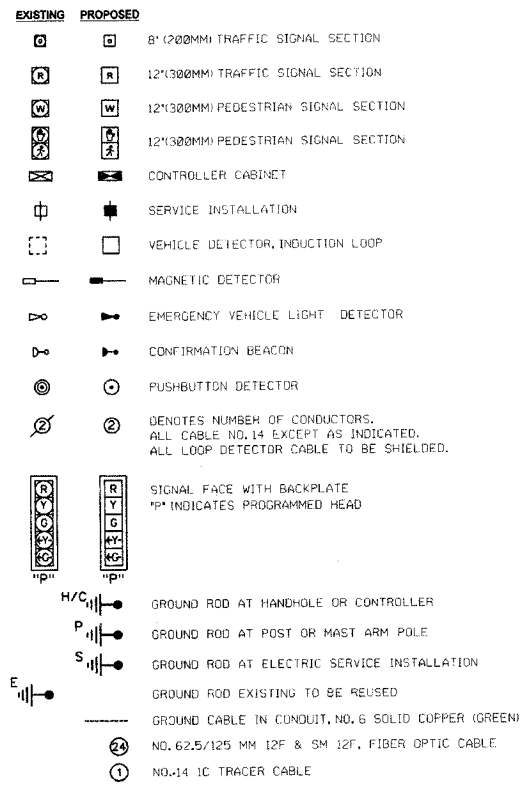


**SCHEDULE OF QUANTITIES**

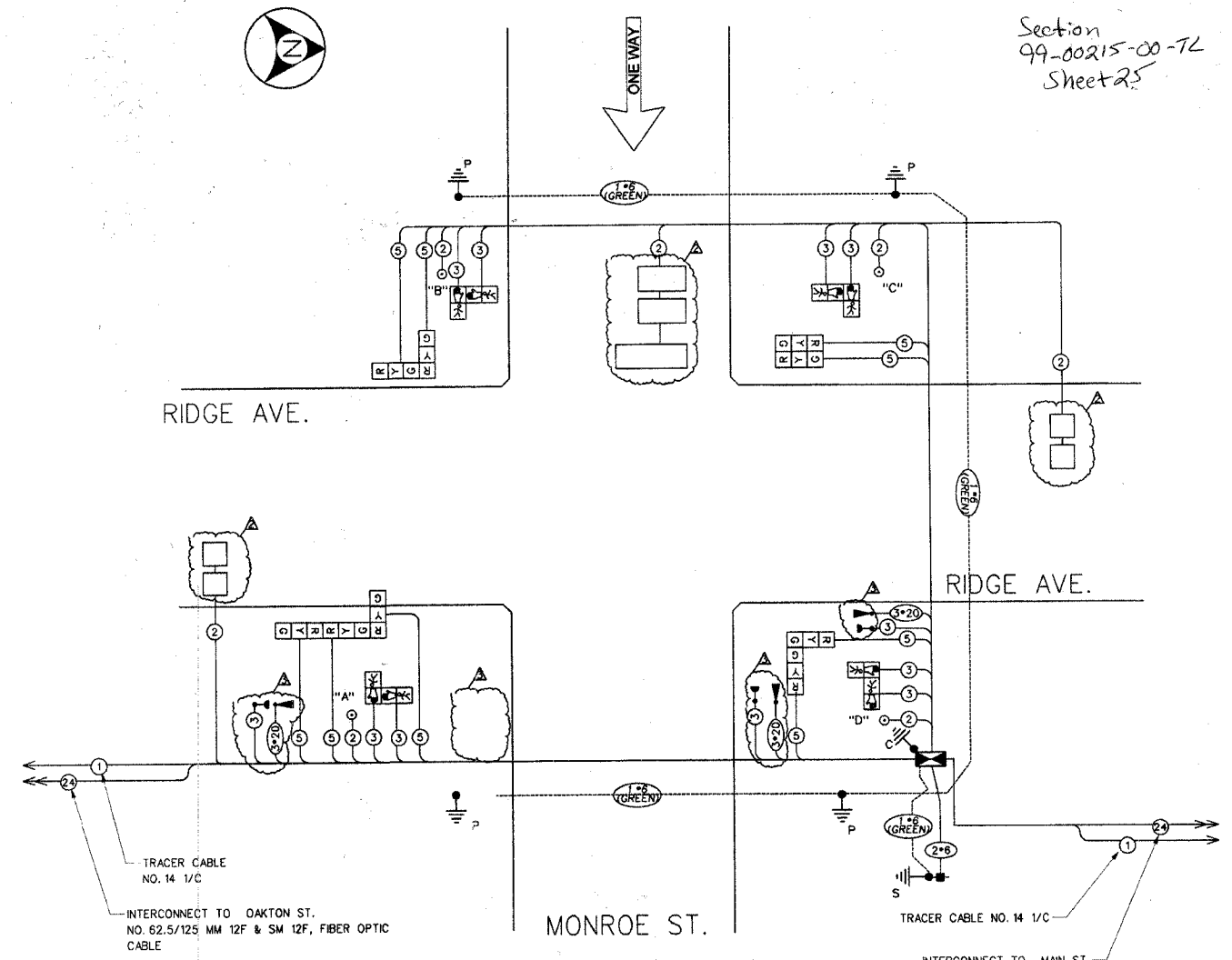
QTY	UNIT	ITEM DESCRIPTION
276	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 8"
64	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 24"
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
29	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
813	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
12	FOOT	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL
191	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
8	EACH	HANDHOLE
1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
39	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
541	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 8 1C
430	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1196	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1057	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
772	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
272	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
357	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
3	EACH	INDUCTIVE LOOP DETECTOR
266	FOOT	DETECTOR LOOP TYPE I
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING HANDHOLE
5	EACH	REMOVE EXISTING CONCRETE FOUNDATION
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
1	EACH	REMOVE EXISTING SERVICE INSTALLATION

**CABLE PLAN LEGEND**



NOTE: ALL NEW GROUND RODS SHALL BE 3/4" X 10'-0" LONG COPPER CLAD. THE COST SHALL BE INCIDENTAL TO THE COST OF INSTALLATION.

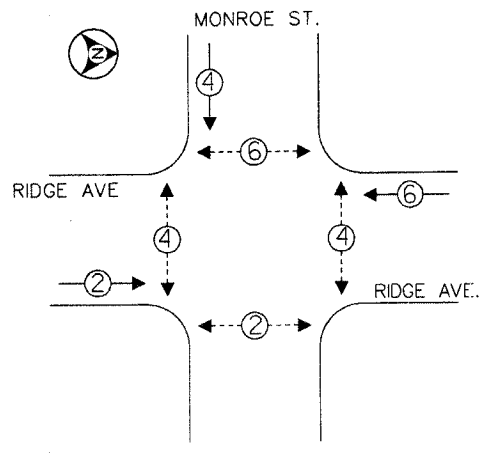
**PROPOSED CABLE PLAN**



NOTE:

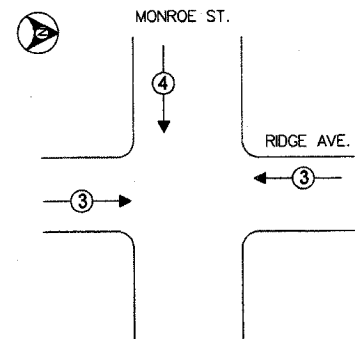
- PUSH BUTTON "A" AND "D" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSH BUTTON "B" AND "C" SHALL PLACE A CALL IN PHASES 4 AND 6

**PROPOSED CONTROLLER SEQUENCE**



PHASE DESIGNATION DIAGRAM

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	XINCAND	LED XX OPERATIONS	WATTAGE	
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	9	135	15	0.25	33.75
ARROW	135	12	0.10		
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					466.5

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

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.	1	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

REVISIONS		
NO.	DATE	DESCRIPTION
Δ	06-08-06	MISCELLANEOUS REVISION
Δ	11-15-06	DETECTOR LOOPS AND SYSTEM DETECTOR LOOPS TO BE INSTALLED BY OTHERS AT A LATER DATE
Δ	11-15-06	EVP REVISIONS

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES**

RIDGE AVE. @ MONROE ST. EVANSTON, ILLINOIS

CITY OF EVANSTON  
25\_cp.dgn

**T25**

SCALE: NOT TO SCALE  
DATE: APRIL 28, 2006

DRAWN BY: DWS  
CHECKED BY: PAW