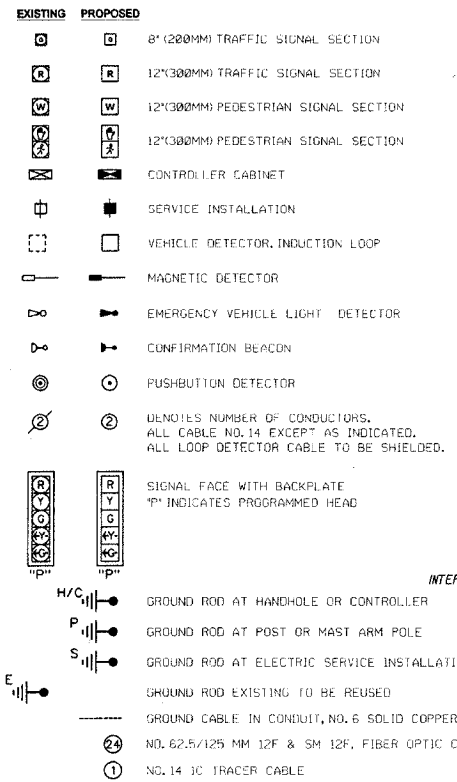


SCHEDULE OF QUANTITIES

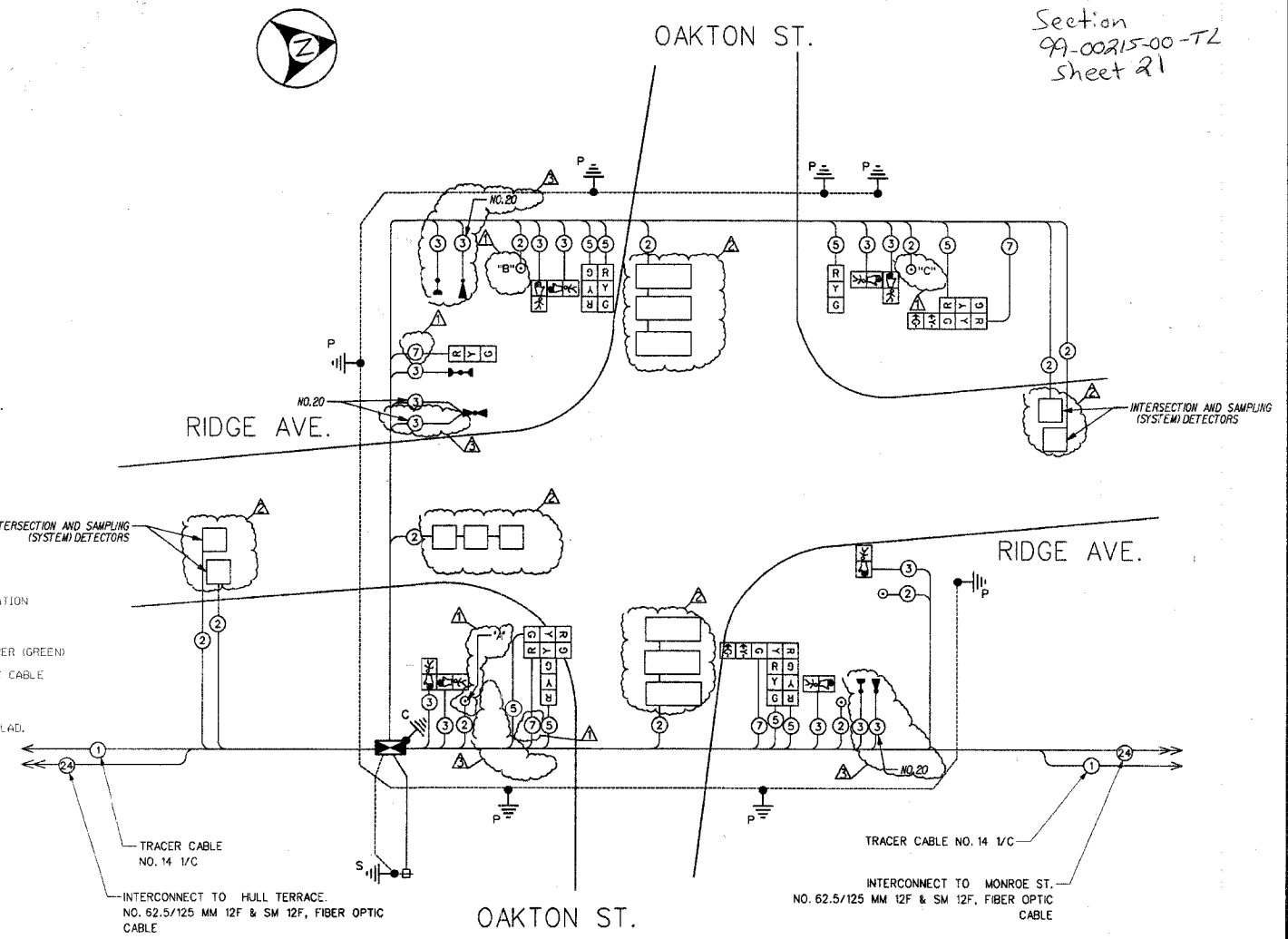
QTY	UNIT	ITEM DESCRIPTION
372	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 12"
82	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 24"
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
4	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
665	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
49	FOOT	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL
33	FOOT	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL
236	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
14	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCIVER - FIBER OPTIC
772	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
681	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1473	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1275	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
357	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1681	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
495	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
90	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
28	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
6	EACH	INDUCTIVE LOOP DETECTOR
629	FOOT	DETECTOR LOOP, TYPE I
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
5	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
5	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
1	EACH	REMOVE EXISTING SERVICE INSTALLATION

CABLE PLAN LEGEND



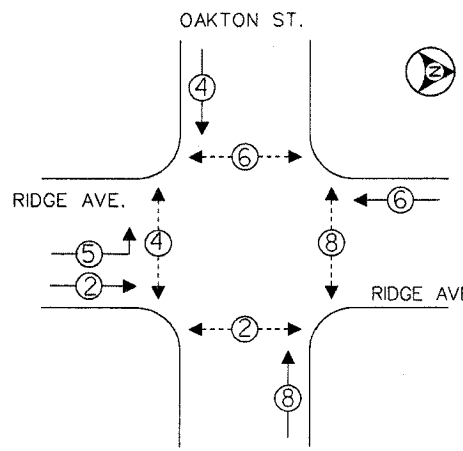
NOTE: ALL NEW GROUND RODS SHALL BE 3/4" X 10'-0" LONG COPPER CLAD. THE COST SHALL BE INCIDENTAL TO THE COST OF INSTALLATION.

PROPOSED CABLE PLAN



Section 99-00215-00-T2 Sheet 21

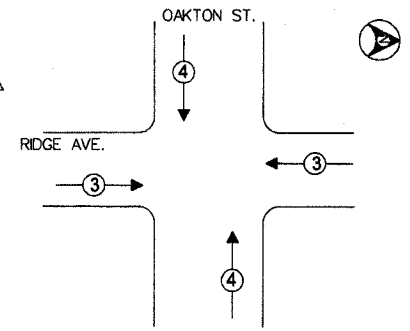
PROPOSED CONTROLLER SEQUENCE



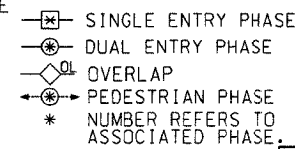
PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

NOTE: NO. 14 7C CABLE IS TO BE PROVIDED AT 3 SECTION SIGNAL HEADS AS NOTED



LEGEND



NOTE:
 • PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 • PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 • PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

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

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED	XX OPERATIONS	
SIGNAL (RED)	12	135	17	0.50	102
	12	135	25	0.25	75
	12	135	15	0.25	45
ARROW	6	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 =					522

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

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. @ OAKTON ST. EVANSTON, ILLINOIS

CITY OF EVANSTON
21_cpr.dgn

T21

SCALE: NOT TO SCALE
DATE: APRIL 28, 2006

DRAWN BY: DWS
CHECKED BY: PAW

ENERGY COSTS TO: CITY OF EVANSTON

EVANSTON, ILLINOIS

ENERGY SUPPLY - CONTACT: MIKE LYNCH
PHONE: (847) 291-3329
COMPANY: COMED