

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
30	SQ FT	SIGN PANEL - TYPE 2
498	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
122	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
116	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
244	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
127	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
56	FOOT	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL
427	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
7	EACH	HANDHOLE
3	EACH	DOUBLE HANDHOLE
1012	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1673	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
3699	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3403	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2468	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2130	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
56	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT
20	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
90	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
2	EACH	COMBINATION SIGNAL HEAD, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, L.E.D., BRACKET MOUNTED
14	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	INDUCTIVE LOOP DETECTOR
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
14	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
732	FOOT	PREFORMED DETECTOR LOOP
1	EACH	SERVICE INSTALLATION, GROUND MOUNT
982	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C (GREEN)
1072	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
6	EACH	SIGNAL HEAD, L.E.D. 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, L.E.D. 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, L.E.D. 1-FACE, 4-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D. 1-FACE, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D. 2-FACE, BRACKET MOUNTED

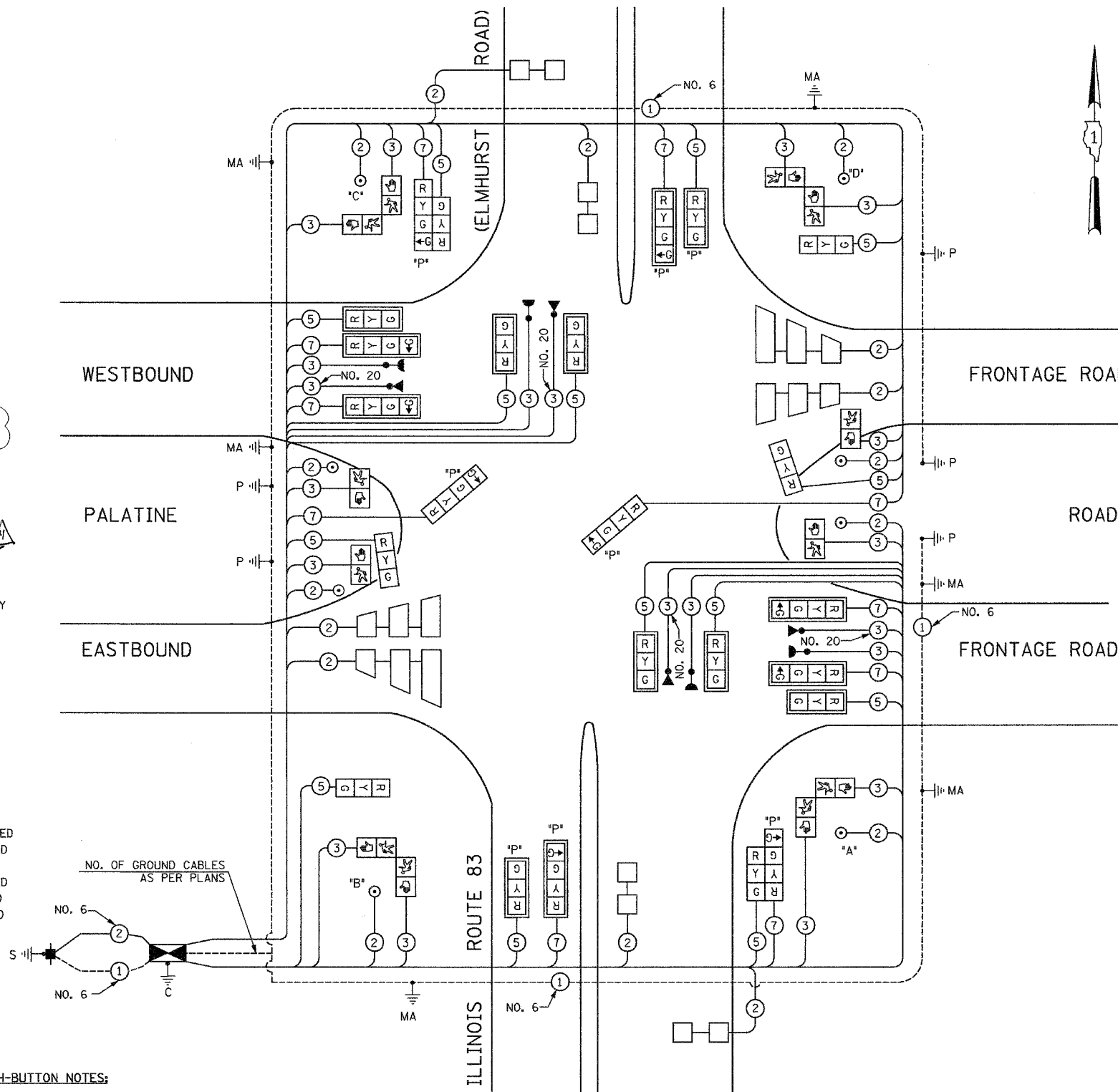
\* 100% COST TO THE CITY OF PROSPECT HEIGHT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	20	135	15	0.25	75
ARROW		135	12	0.10	
PED. SIGNAL	12	90	25	1.00	300
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
OPT. SIGNAL (RED)	8	150		0.50	600
(YELLOW)	8	150		0.25	300
(GREEN)	14	150		0.25	525
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 2136.0
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: JOAN COOK PHONE: (847) 816-5461 COMPANY: Com. Edison					

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.L. - 2"
E-M.ARM POLE		SIGNAL POST	2 (1.0)		(6m H.L. - 0.6m)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		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)

**PUSH-BUTTON NOTES:**

- PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 1 AND 2
- PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 3
- PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 3 AND 4
- PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 4 AND 1



**CABLE PLAN**  
NOT TO SCALE

**CABLE PLAN LEGEND**

- | EXISTING | PROPOSED |   |
|----------|----------|---|
|          |          | 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   |
|          |          | PUSH-BUTTON DETECTOR  |
|          |          | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|          |          | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |
|          |          | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F & SM2F   |
|          |          | SIGNAL FACE WITH BACKPLATE. *P* INDICATES PROGRAMMED HEAD.  |
|          |          | *E* RAILROAD CONTROL CABINET  |
|          |          | *E* ILLUMINATED SIGN, FIBER OPTIC 'NO LEFT TURN'  |
|          |          | *E* ILLUMINATED SIGN, FIBER OPTIC 'NO RIGHT TURN'   |
|          |          | H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER  |
|          |          | P GROUND ROD AT POST OR MAST ARM POLE   |
|          |          | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
|          |          | LOCAL AND MASTER CONTROLLER   |
|          |          | MICROWAVE VEHICLE SENSOR  |

REVISIONS	
NAME	DATE
PKG/BB	02/02/05

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PALATINE ROAD: ILL 83 (Elmhurst Rd.) TO  
WISCONSIN CENTRAL RR  
CABLE PLAN  
SCHEDULE OF QUANTITIES  
ILLINOIS ROUTE 83 (ELMHURST ROAD)  
AT EAST AND WESTBOUND  
FRONTAGE ROADS TO AND FROM PALATINE ROAD  
SCALE: NONE DRAWN BY: JF  
DESIGNED BY: PKG/RRM  
DATE: 11/18/2004 CHECKED BY: PKG/RRM

**GO** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 306  
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