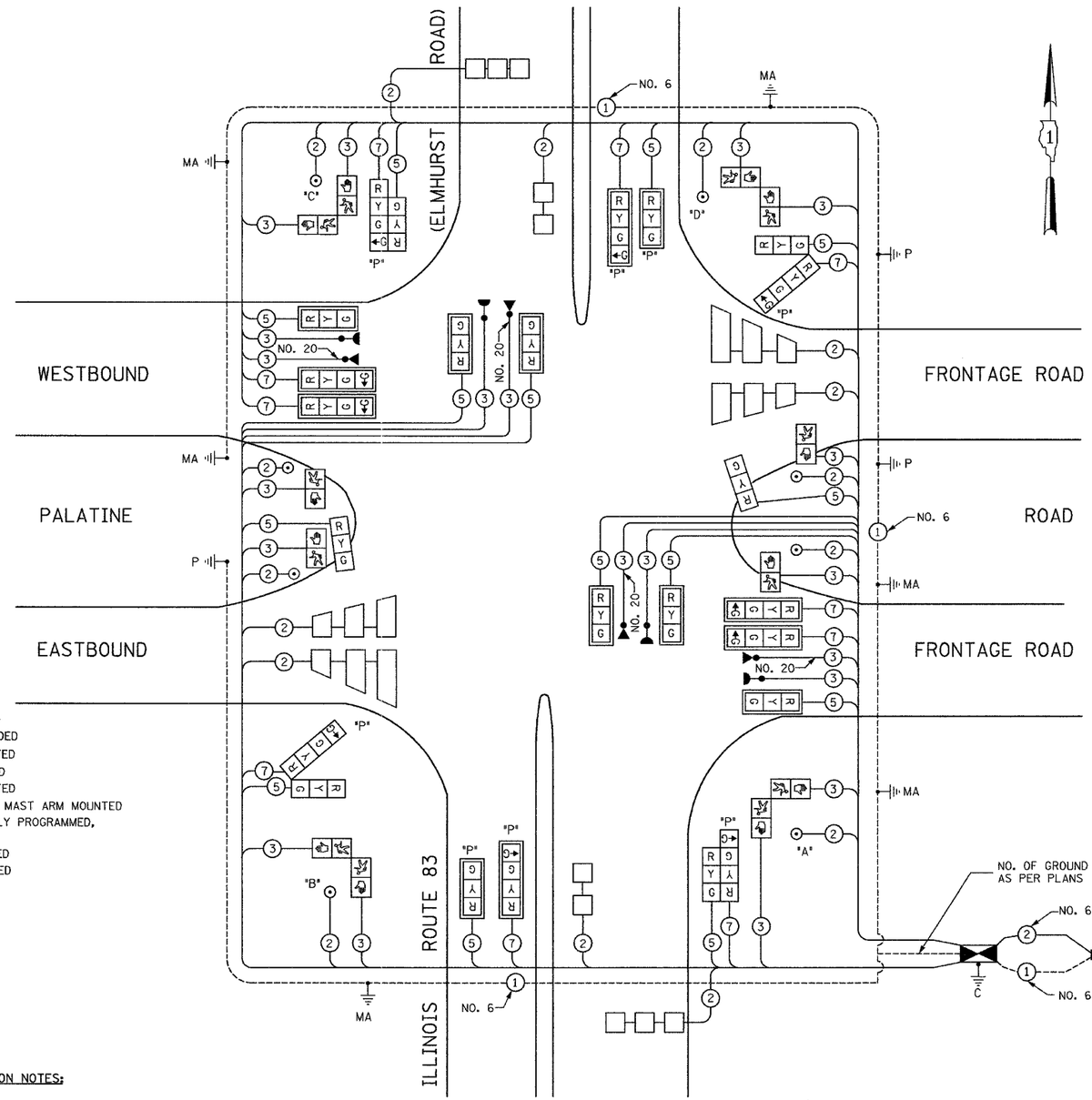
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
305	1313.1 B	COOK	193	124
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT:		

CONTRACT NO. 62878

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
30	SQ FT	SIGN PANEL - TYPE 2
508	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
57	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
65	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
211	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
85	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
394	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
8	EACH	HANDHOLE
3	EACH	DOUBLE HANDHOLE
752	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1842	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
4071	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3760	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2533	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2156	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
73	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.
3	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
90	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
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
734	FOOT	PREFORMED DETECTOR LOOP
1	EACH	SERVICE INSTALLATION, POLE MOUNT
925	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C (GREEN)
1270	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
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	COMBINATION SIGNAL HEAD, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, L.E.D., BRACKET 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



CABLE PLAN LEGEND

EXISTING	PROPOSED	
C	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F & SMI2F
R Y G "P"	R Y G "P"	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	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	M C	LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR

CABLE PLAN

NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW		135	12	0.10	
PED. SIGNAL	12	90	25	1.00	300
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
SIGNAL (RED)	8	135		0.50	540
(YELLOW)	8	135		0.25	270
(GREEN)	8	135		0.25	270
ARROW (GREEN)	6	135		0.25	202.5
ARROW (GREEN)	4		12	0.25	12
FLASHER				0.50	
				TOTAL =	1990.5

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: JOAN COOK
PHONE: (847) 816-5461
COMPANY: Com. Edison

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

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'+L-2=
E-M.ARM POLE		SIGNAL POST	2 (1.0)		(6m+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)

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

REVISIONS	
NAME	DATE

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
DATE: 11/18/2004
DRAWN BY: JF
DESIGNED BY: PKG/RRM
CHECKED BY: PKG/RRM

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