



### SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCIVER-FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	623
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	750
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	122
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	11
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
* ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	412

\* 100% COST TO VILLAGE OF MORTON GROVE

### CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED

- CONSTRUCTION NOTES:**
- REMOVE EXISTING 8" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED, INSTALL NEW 12" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED.
  - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED, AND INSTALL NEW PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED.
  - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED, AND INSTALL NEW PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED.
  - REMOVE EXISTING PEDESTRIAN HEAD, 1-FACE, BRACKET MOUNTED, INSTALL NEW PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED.
  - REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW CONTROLLER AND TYPE IV CABINET. RE-USE EXISTING FOUNDATION.
  - INSTALL NEW ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PAIR
  - THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

- PUSH-BUTTON NOTES:**
- 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
  - PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	X % OPERATION	
SIGNAL (RED)	19	135		0.50	1282.5
(YELLOW)	19	135		0.25	641.25
(GREEN)	19	135		0.25	641.25
ARROW	16	135		0.10	216.0
PED. SIGNAL	8	90		1.00	720.0
CONTROLLER	1	100		1.00	100.0
TOTAL =					3601.0

80% - VILLAGE OF MORTON GROVE  
 6101 CAPULINA AVENUE  
 MORTON GROVE, IL 60053

20% - VILLAGE OF SKOKIE  
 5127 OAKTON STREET  
 P.O. BOX 309  
 SKOKIE, IL 60077

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 - FOUNDATION	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2' = (6m + L - 0.6m)
C - M. ARM POLE		SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.3)	POST MOUNTED	6 (1.8)

**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS

19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICES: 847-716-7200 FAX: 847-716-7239

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

OAKTON STREET AT GROSS POINT ROAD  
 MORTON GROVE, ILLINOIS

SCALE: N.T.S.  
 DATE: 09-20-2004

DRAWN BY: BR  
 DESIGNED BY: VO  
 CHECKED BY: TJM