F.A.U. RTE.	SECTION	N C	OUNT	Y	TOTAL	SHEET NO.
1332	2004-02	2TS		K	20	_10_
STA.		TO	STA			
FED. ROAD DIST. NO. ILLIN		ILLINOIS	IS FED. AID		PROJECT	•

**5-00 STREET** \_NO. 6 ILLUMINATED SIGN FIBER OPTIC OAKTON NO. 20 1 TRACER CABLE-NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WATTAGE X X INCAND, LED		X% OPERATION	WATTAGE	
SIGNAL (RED)	18	135	17	0.50	1215.00	
(YELLOW)	18	135	25	0.25	607.50	
(GREEN)	18	135	15	0.25	607.50	
ARROW	18	135	12	0.10	243.00	
PED. SIGNAL	0	90	25	1.00	0.00	
CONTROLLER	1	100	100	1.00	100.0	
ILLUM. SIGN	4	84	35	0.05	16.8	
THE STATE OF THE S						
FLASHER	0			0,50	0.00	
				TOTAL =	2789.80	

ENERGY COSTS - BILLED TO: 25% (ADDRESS) ENERGY SUPPLY - CONTACT: COMPANY:

CONSTRUCTION NOTES:

- REMOVE EXISTING 8" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKETEMOUNTED, INSTALL NEW 12" SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED.
- (2) REMOVE EXISTING CONTROLLER AND CABINET. INSTALL MASTER CONTROLLER AND LOCAL CONTROLLER IN TYPE V CABINET, RE-USE EXISTING FOUNDATION.
- (3) THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.
- (4) INSTALL 1" UNIT DUCT FOR THE AMERITECH SERVICE FROM THE POINT OF ENTRY OF THE TELEPHONE CONDUIT IN THE DOUBLE HANDHOLE THROUGH THE CONTROLLER CABINET FOUNDATION. THIS WORK SHALL BE INCIDENTAL TO THE MASTER CONTROLLER PAY ITEM.

	FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK	(FT.) (m)	VERTICAL	(FT.) (m)
% - VILLAGE OF SKOKIE	TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
5127 OAKTON STREET	D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 =
P.O. BOX 309	E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
SKOKIE, IL 60077	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)

	UNIT	QUANTITY
I, 2" DIA., GALVANIZED STEEL	FOOT	15
TLL FOR ELECTRICAL WORK	FOOT	15
XISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	EACH	2
ent titting		

CONDUIT IN TRENCH TRENCH AND BACKFI MAINTENANCE OF EXI \* LIGHT DETECTOR
• LIGHT DETECTOR AMPLIFIER FULL-ACTUATED CONTROLLER AND TYPE V CABINET TRANSCEIVER-FIBER OPTIC EACH ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C FOOT FOOT EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH EACH INDUCTIVE LOOP DETECTOR SERVICE INSTALLATION, POLE MOUNTED \* ELECTRIC CABLE IN CONDUIT, NO. 20 &C, TWISTED, SHIELDED FOOT

SCHEDULE OF QUANTITIES

\* 100% COST TO VILLAGE OF MORTON GROVE

ITEM

## CABLE PLAN LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
O	6	8" (200mm) TRAFFIC SIGNAL SECTION	$\mathfrak{O}$	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
$\odot$	R	12" (300mm) TRAFFIC SIGNAL SECTION	Ø	<b>3</b>	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
<b>(W)</b>	W	12" (300mm) PEDESTRIAN SIGNAL SECTION	®	R	SIGNAL FACE WITH BACKPLATE, "P" INDICATES
<b>(3)</b>	O A	12" (300mm) PEDESTRIAN SIGNAL SECTION		G	PROGRAMMED HEAD
$\boxtimes$	1	CONTROLLER CABINET		◆ Y	
-	-	SERVICE INSTALLATION	1911	11p11	
Œ		TELEPHONE CONNECTION	″E″ <u></u> В>≪В	₽ď	RAILROAD CONTROL CABINET
[]		VEHICLE DETECTOR, INDUCTION LOOP	"E"		ILLUMINATED SIGN
$\Box$		MAGNETIC DETECTOR	"E"		
⋈	•	EMERGENCY VEHICLE LIGHT DETECTOR			ILLUMINATED SIGN "NO RIGHT TURN"
0-0	•4	CONFIRMATION BEACON	H/C H→O	c H-•	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H).
(3)	•	PUSHBUTTON DETECTOR	•	•	OR CONTROLLER (C).
Ø	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE	P 	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
•		NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIFLDED.	S∥⊢o	°⊪	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
					MICROWAVE VEHICLE SENSOR

	ICEVIDIONO		
	NAME	DATE	
STON ENGINEERING			
SERVICE CORPORATION CIVIL ENGINEERS			
19 S. BOTHWELL STREET			
PALATINE, ILLINOIS 60067 VOICE: 847-776-7200 FAX: 847-776-7239			
1000 011 110 1200 1800 071 110 (200			

REVISIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

OAKTON STREET AT LEHIGH AVENUE MORTON GROVE, ILLINOIS

SCALE: N/#20/ DATE 09-20-2004