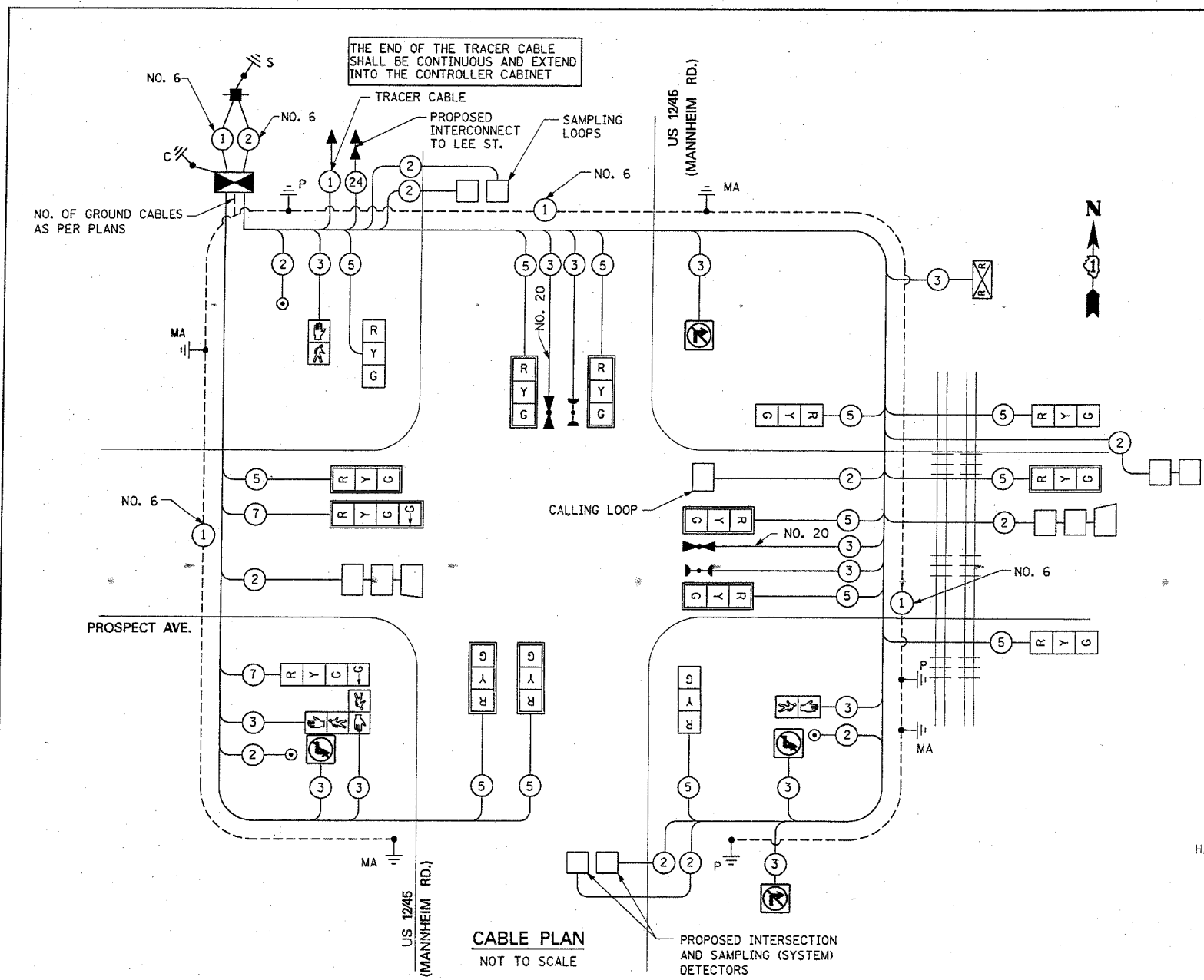


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2004-018TS	COOK	28	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62737				



CABLE PLAN
NOT TO SCALE

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
G	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
		RAILROAD CONTROL CABINET
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		TELEPHONE INSTALLATION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON 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-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNITS	TOTAL
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.2
SIGN PANEL - TYPE I	SQ FT	33
THERMOPLASTIC PAVEMENT MARKING LINE 24"	FOOT	91
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	605
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	104
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	42
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	62
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	254
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	750
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCIEVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	335
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1330
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	208
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1725
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2-C	FOOT	32
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	380
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
ILLUMINATED SIGN L.E.D.	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5366
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C TWISTED, SHIELDED	FOOT	400
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	0
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, RAILROAD NO. 14 3C	FOOT	121
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

- SFTY-10
- Y031-30 - 100% COST TO THE VILLAGE OF DESPLAINES

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCANDI	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW		135	12	0.10	
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	4	84	35	0.05	7
FLASHER		135	25	0.50	
TOTAL					484.5

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: **Mr. Sam Thomas**
PHONE: **(630)-691-4456**
COMPANY: **ComEd**

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)
E - M. ARM POLE		SIGNAL POST	2 (0.6)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
		ELECTRIC SERVICE	1 (0.5)
		GROUND CABLE	1 (0.5)
		ALL FOUNDATIONS	3.5 (1.0)
		MAST ARM (L) POLE	20'H-2" (6m+L-0.6m)
		BRACKET MOUNTED	13 (4.0)
		PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	13.5 (4.1)
		SERVICE TO GROUND	13.5 (4.1)
		POST MOUNTED	6 (1.8)



REVISIONS

NAME	DATE
Brenda K.	2-22-05

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND SCHEDULE OF QUANTITIES, US 12/45 (MANNHEIM RD.) AND PROSPECT AVE.

SCALE: NONE
DATE: FEBRUARY, 2005

DRAWN BY: RV/MD
DESIGNED BY: DS
CHECKED BY: AS/XG

c:\projects\traffic\050001\consult\prospect obl.sht 2/22/2005