

LEGEND

- ⊗ DUAL ENTRY PHASE
- ⊙ SINGLE ENTRY PHASE
- OL OVERLAP
- ⊙ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM
 DUAL ENTRY - ALL LEGS
 PROTECTED/PERMITTED LEFT TURN PHASING

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
THERMOPLASTIC PAVEMENT MARKING LINE 12"	FOOT	440
THERMOPLASTIC PAVEMENT MARKING LINE 24"	FOOT	92
THERMOPLASTIC PAVEMENT MARKING, REMOVAL	SQ. FT.	84
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET(SPECIAL)	EACH	1
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, MAST ARM MNTD.	EACH	6
SIGNAL HEAD, L.E.D. 1-FACE, 3 SECTION, BRKT. MNTD.	EACH	2
SIGNAL HEAD, L.E.D. 1-FACE, 5 SECTION, MAST ARM MNTD.	EACH	2
SIGNAL HEAD, L.E.D. 1-FACE, 1-5 SECT BRKT MNTD.	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRKT. MNTD. WITH COUNTDOWN TIMER	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	8
TRANSCEIVER, FIBER OPTIC	EACH	1

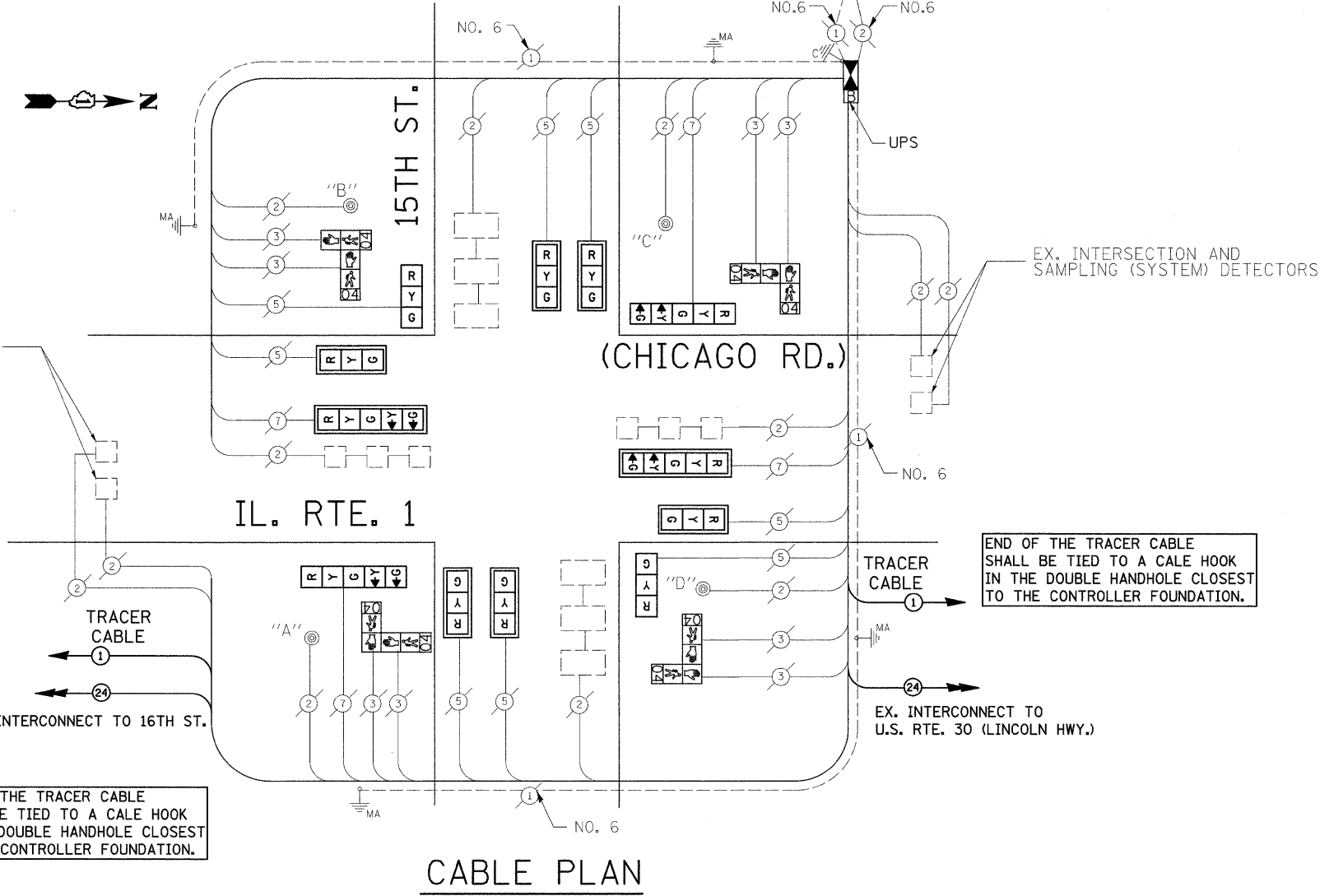
END OF THE TRACER CABLE SHALL BE TIED TO A CALE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.

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

NOTE:
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

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-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	16m-H-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)
36" (900mm)	15 (4.6)	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)



CABLE PLAN

CABLE PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING
⊗	⊙	CONTROLLER CABINET	⊗	⊙
⊗	⊙	RAILROAD CONTROL CABINET	⊗	⊙
⊗	⊙	SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	⊗	⊙
⊗	⊙	TELEPHONE CONNECTION	⊗	⊙
⊗	⊙	GROUND ROD AT (C) CONTROLLER, (H)HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	⊗	⊙
⊗	⊙	FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED	⊗	⊙
⊗	⊙	ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED	⊗	⊙
⊗	⊙	GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)	⊗	⊙
⊗	⊙	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD	⊗	⊙
⊗	⊙	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE	⊗	⊙
⊗	⊙	12" (300mm) TRAFFIC SIGNAL SECTION	⊗	⊙
⊗	⊙	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER	⊗	⊙
⊗	⊙	ILLUMINATED SIGN "NO LEFT TURN"	⊗	⊙
⊗	⊙	ILLUMINATED SIGN "NO RIGHT TURN"	⊗	⊙
⊗	⊙	PUSHBUTTON DETECTOR	⊗	⊙
⊗	⊙	DETECTOR LOOP	⊗	⊙
⊗	⊙	PREFORMED DETECTOR LOOP	⊗	⊙
⊗	⊙	MICROWAVE VEHICLE SENSOR	⊗	⊙
⊗	⊙	VIDEO DETECTOR	⊗	⊙
⊗	⊙	CLOSED CIRCUIT TV	⊗	⊙
⊗	⊙	EMERGENCY VEHICLE SYSTEM DETECTOR	⊗	⊙
⊗	⊙	CONFIRMATION BEACON	⊗	⊙
⊗	⊙	UNINTERRUPTIBLE POWER SUPPLY	⊗	⊙

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 531.60