FOR INFORMATION ONLY

SEQUENCE OF OPERATION *

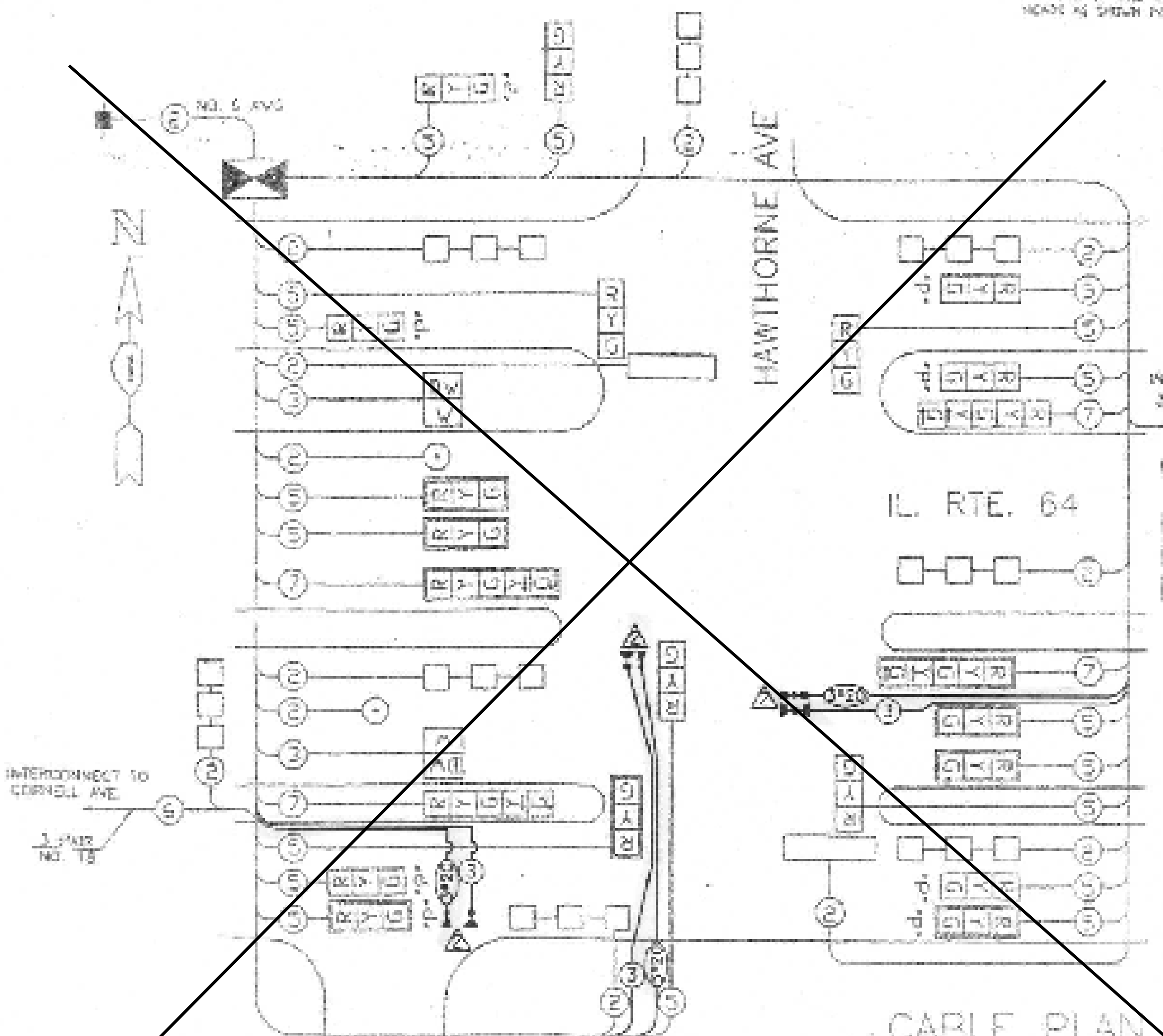
TEMPORARY SIGNAL SEQUENCE	SIGNAL MODERNIZATION SEQUENCE	1	2	3	4	5	6A	6B	7	8A	8B	9	10A	10B	11	12A	12B	13	14A	14B	15	16A	16B	17	18A	18B	19	20	21A	21B	FLASH
PHASE	PHASE	1 + 5					2 + 5					1 + 6						2 + 6			3			4			7				
CHANGE TO PHASE	CHANGE TO PHASE	/	2+5	1+6	ALL OTHERS	/	1+5		2+6	ALL OTHERS		/	1+5		2+6	ALL OTHERS		/	3 4 7		/	ALL OTHERS		/	ALL OTHERS		/	/	ALL OTHERS		
IL 64 E/B THROUGH SIGNAL	IL 64 E/B MID MAST ARM SIGNALS	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL 64 E/B LEFT TURN SIGNALS	IL 64 E/B FAR LEFT AND END MAST ARM SIGNALS	R ←G	R ←G	R ←Y	R ←Y	G ←G	Y ←G	R ←G	G ←G	Y	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL 64 W/B THROUGH SIGNAL SIGNALS	IL 64 W/B MID MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL 64 W/B LEFT TURN SIGNALS	IL 64 W/B FAR LEFT AND END MAST ARM SIGNALS	R ←Y	R ←Y	R ←G	R ←Y	R	R	R	R	R	R	G ←G	Y ←G	R ←G	G ←G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
HAWTHORNE AVE SIGNALS N/B AND S/B	HAWTHORNE AVE SIGNALS N/B AND S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
SERVICE ROAD NORTH SIDE E/B & W/B	SERVICE ROAD NORTH SIDE E/B & W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
SERVICE ROAD SOUTH SIDE E/B & W/B	SERVICE ROAD SOUTH SIDE E/B & W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R
N/A	PEDESTRIAN SIGNALS X-ING IL 64 WEST SIDE OF HAWTHORNE	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FL DW	DW	DW	DARK

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL

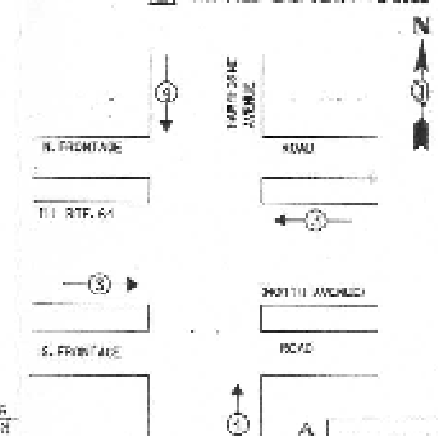
NOTE :

THE TEMPORARY SIGNAL SEQUENCE SHALL INCORPORATE "RED LEFT" ARROWS IN PLACE OF THE "RED BALLS" INDICATED ABOVE FOR ALL LEFT TURN SIGNAL HEADS AS SHOWN IN THE TEMPORARY CABLE PLAN.



CABLE PLAN

△ PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



△ PROPOSED EMERGENCY VEHICLE PREEMPTOR

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

CABLE PLAN LEGEND

- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- DENOTES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- INDICATES EXISTING CABLE
- SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED
- EXISTING SIGNAL SECTION
- MAGNETIC DETECTOR
- OPTICAL DETECTOR
- △ CONFIRMATION BEACON

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
24.75	SQ. FT.	SIGN PANEL - TYPE I
1	EACH	SIGNAL HEAD, 1 FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, 1 FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, 1 FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
3	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	COMBINATION SIGNAL HEAD, 2-FACE 1-3 SECTION OPTICALLY PROGRAMMED 1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, 3-FACE 1-3 SECTION OPTICALLY PROGRAMMED 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, 1 FACE, BRACKET MOUNTED
9	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
⊕5	EACH	GALVANIZED STEEL TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 46 FT.
1	EACH	FULL ACTUATED CONTROLLER, SPECIAL SEQUENCE, 8 PHASES IN TYPE IV CABINET
1	EACH	TRANSCEIVER
11	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
937	LIN. FT.	DETECTOR LOOP, TYPE I
2	EACH	PEDESTRIAN PUSH-BUTTON
⊕222	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/2"
574	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
⊕8	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2 1/2"
⊕36	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
⊕11	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
⊕4	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 5"
⊕44	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 1-1/2"
⊕51	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
46	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2 1/2"
⊕156	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
⊕43	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3-1/2"
74	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 4"
374	LIN. FT.	UNIT DUCT, WITHOUT CABLE, IN TRENCH 1"
141	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 6, 2/C
173	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14, 2/C
173	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14, 3/C
2570	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14, 5/C
612	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14, 7/C
3687	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14, 2/C TWISTED, SHIELDED
1	EACH	SERVICE INSTALLATION, TYPE "A"
15	LIN. FT.	CONCRETE FOUNDATION, TYPE "A"
3.5	LIN. FT.	CONCRETE FOUNDATION, TYPE "D"
45	LIN. FT.	CONCRETE FOUNDATION, TYPE "E" 30" DIAMETER
⊕9	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE HEAVY-DUTY HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
⊕978	LIN. FT.	TRENCH AND BACKFILL
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
⊕3	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION

△ SCHEDULE OF QUANTITIES

TRAFFIC CONTROL AND PROTECTION, STANDARD 733701	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	57
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	637
ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED, SHIELDED	FOOT	637
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
DRILL EXISTING HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	57

△ INSTALLATION OF EMERGENCY VEHICLE PREEMPTION 6-20-02

MELROSE PARK-SHEET 165 OF 365

CHRISTOPHER B. BURKE ENGINEERING LTD.

REVISIONS	
NAME	DATE
⊕ JOE RIVALLER	4-6-83
△ CBBEL	6-20-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
SEQUENCE OF OPERATION
CABLE PLAN
SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVENUE)
AND
HAWTHORNE AVENUE

SCALE: VERT. NONE HORIZ. — DRAWN BY — DATE APRIL 14, 1982 — CHECKED BY

TS# 3045
MELROSE PARK

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - PKG	REVISED -
		DRAWN - EA, EB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 7/12/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SEQUENCE OF OPERATION
AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVENUE) AT HAWTHORNE AVENUE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-036TS	COOK	76	32

CONTRACT NO. 60W82

FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT