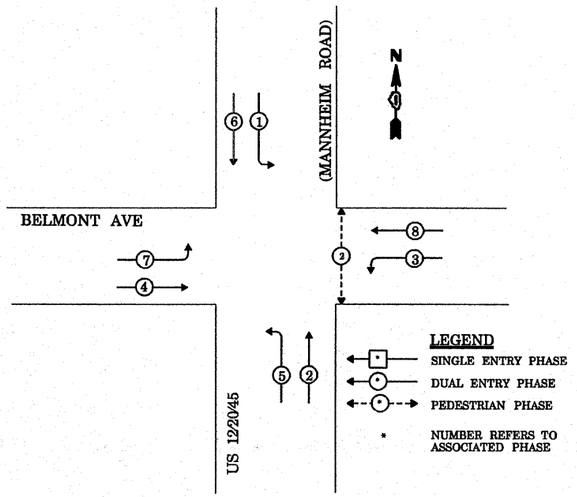
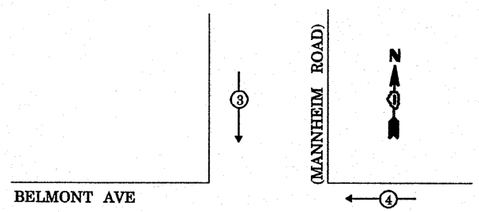
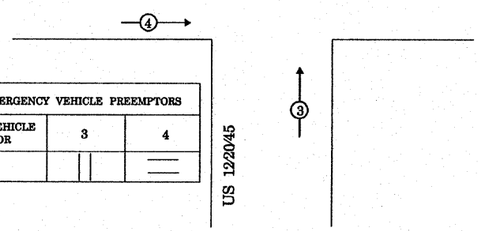
CONTROLLER SEQUENCE



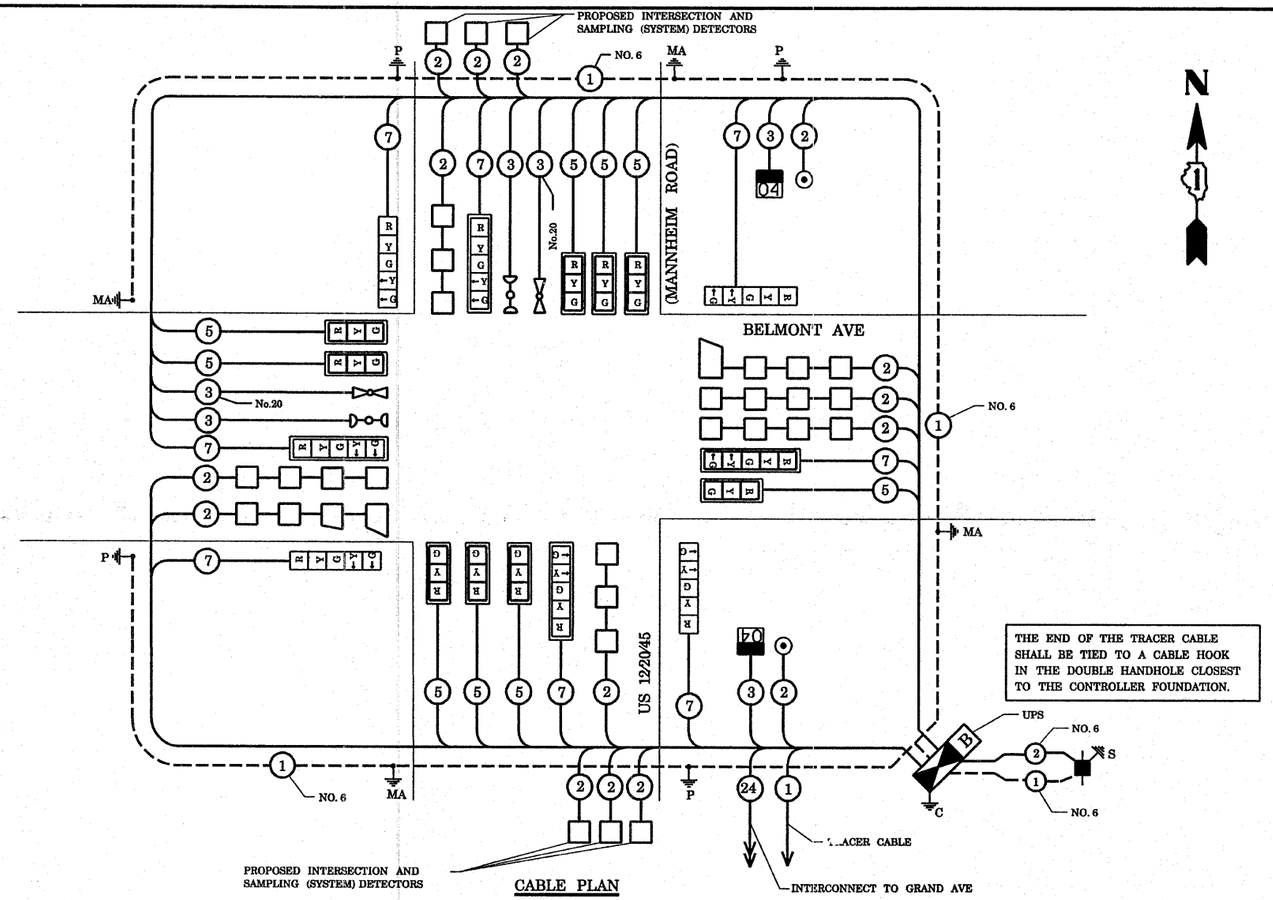
PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE





PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	‖	=



CABLE PLAN

CABLE PLAN LEGEND

PROPOSED	EXISTING	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
W R	W R	12"(300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATON
T	T	TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		PUSHBUTTON DECTECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
R Y G Y G "P"	R Y G Y G "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
	"E"	RAILROAD CONTROL CABINET
	"E"	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
	"E"	ILLUMINATE SIGN, FIBER OPTIC "NO RIGHT TURN"
HC	HC	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO.62.5/125 2-MM12F & SM12F
		MICROWAVE VEHICLE SENSOR
V	V	VIDEO DETECTOR
C	C	CLOSED CIRCUIT TV
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
B	B	UNINTERRUPTABLE POWER SUPPLY
		PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
249	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
23	FOOT	COMBINATION CURB AND GUTTER REMOVAL
249	SQ FT	SIDEWALK REMOVAL
23	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
16.5	SQ FT	SIGN PANEL - TYPE 1
30	SQ FT	SIGN PANEL - TYPE 2
104	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"
149	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
310	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL
406	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
100	FOOT	CONDUIT IN TRENCH, 2"* DIA., GALVANIZED STEEL
9	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
261	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
319	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
624	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
170	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
727	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1896	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1501	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
3243	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR
141	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
552	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
539	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
15	FOOT	CONCRETE FOUNDATION, TYPE E 30" DIAMETER
45	FOOT	CONCRETE FOUNDATION, TYPE E 36" DIAMETER
13	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
13	EACH	INDUCTIVE LOOP DETECTOR
1152	FOOT	DETECTOR LOOP, TYPE I
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
2*	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1*	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
9	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
9	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMINGS
1	EACH	SERVICE INSTALLATION, POLE MOUNT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY

TYPE	NO. LAMPS	X WATTAGE INCAND.	X WATTAGE LED	X % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17		17	0.50	144.50
(YELLOW)	17		25	0.25	106.25
(GREEN)	17		15	0.25	63.75
ARROW	16		12	0.10	19.20
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN				0.05	-
FLASHER				0.05	-
				TOTAL=	483.70

ENERGY COSTS TO: VILLAGE OF FRANKLIN PARK
4500 BELMONT AVENUE
FRANKLIN PARK, IL 60131

ENERGY SUPPLY CONTACT: LINDA KLOC
PHONE: (708)410-5313
COMPANY: COMMONWEALTH EDISON

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

* 100% COST TO VILLAGE OF FRANKLIN PARK

FILE NAME = c:\projects\traffic\t070027\us12_20_45.dgn	USER NAME = kanthaphixaybc	DESIGNED - N.B.	REVISED -
		DRAWN - N.B.	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - D.B.	REVISED -
	PLOT DATE = 10/10/2008	DATE - 09/04/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CABLE PLAN
US 12/20/45 (MANNHEIM ROAD) AT BELMONT AVENUE

SCALE: NTS | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2008-006 TS	COOK	104	12
		CONTRACT NO. 60E31		

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

...\traffic\t070027\us12_20_45.dgn 10/10/2008 2:14:14 PM User=kanthaphixaybc