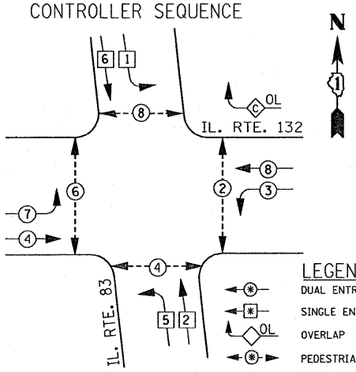
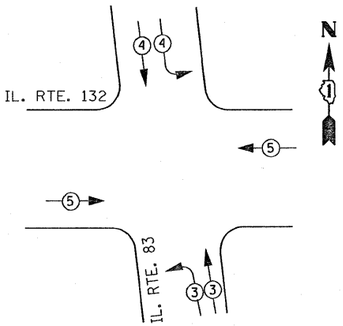
CONTROLLER SEQUENCE



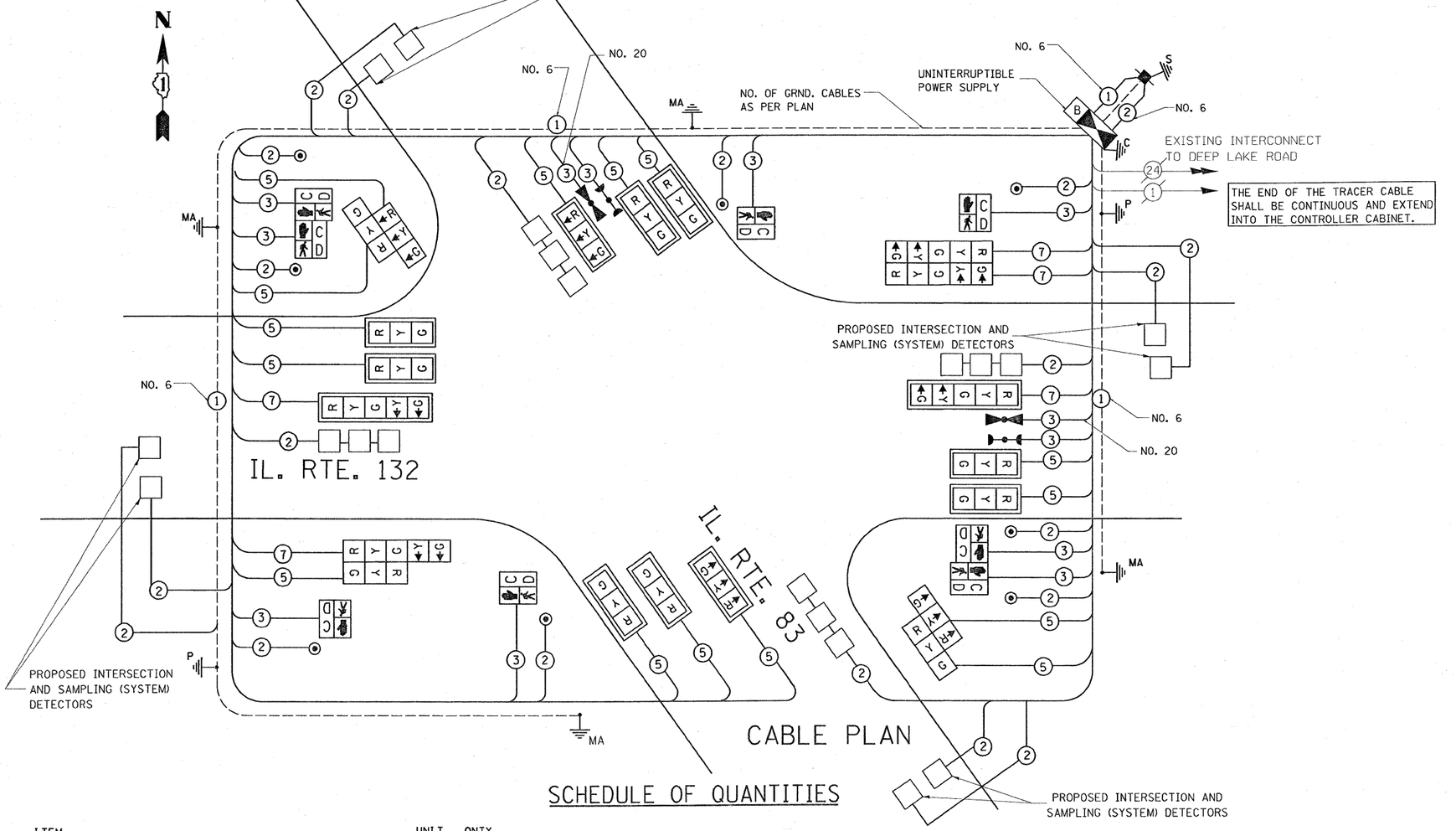
PROPOSED PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE LETTER		PROTECTED PHASE
C	8	+	1



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM	UNIT	ONTY.
SIGN PANEL - TYPE 1	SQ M	2.94
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
SIGNAL HEAD ,L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD ,L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD ,L.E.D., 2-FACE, 3 SECTION BRACKET MOUNTED	EACH	2
SIGNAL HEAD ,L.E.D., 2-FACE, 5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD ,L.E.D., 2-FACE, 1-3 SECTION; 1-5 SECTION BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUM.	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8

ITEM	UNIT	ONTY.
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
DETECTABLE WARNINGS	SQ M	10.76
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	319.73
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	42
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	1.5
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	196.20
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	290.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	301
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	600
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	180
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	706.7
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2 C	METER	30

ITEM	UNIT	ONTY.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 11.58 METER	EACH	2
CONCRETE FOUNDATION, TYPE A	METER	7.2
CONCRETE FOUNDATION, TYPE C	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	9.2
DETECTOR LOOP, TYPE 1	METER	220
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	202
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	METER	102.2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 17.07 METER	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 18.28 METER	EACH	1
CONCRETE FOUNDATION, TYPE E 1060mm DIAMETER	METER	12.80

* 100% COST TO THE VILLAGE OF LAKE VILLA

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

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	135	17	0.50	170.00
(YELLOW)	20	135	25	0.25	125.00
(GREEN)	20	135	15	0.25	75.00
ARROW	22	135	12	0.10	264.00
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 =	934.00

ENERGY SUPPLY
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
CONTACT: AMADOR VELEZ
PHONE: (847) 816-5248
COMPANY: COM. EDISON

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0108079\P104498-TS.dgn	USER NAME = kanthaphixaybc	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 6.252 m / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/27/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
IL. RTE. 132 @ IL. RTE. 83

SCALE: 1:250 | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	107
D-91-145-00		CONTRACT NO. 60931		
		ILLINOIS FED. AID PROJECT		