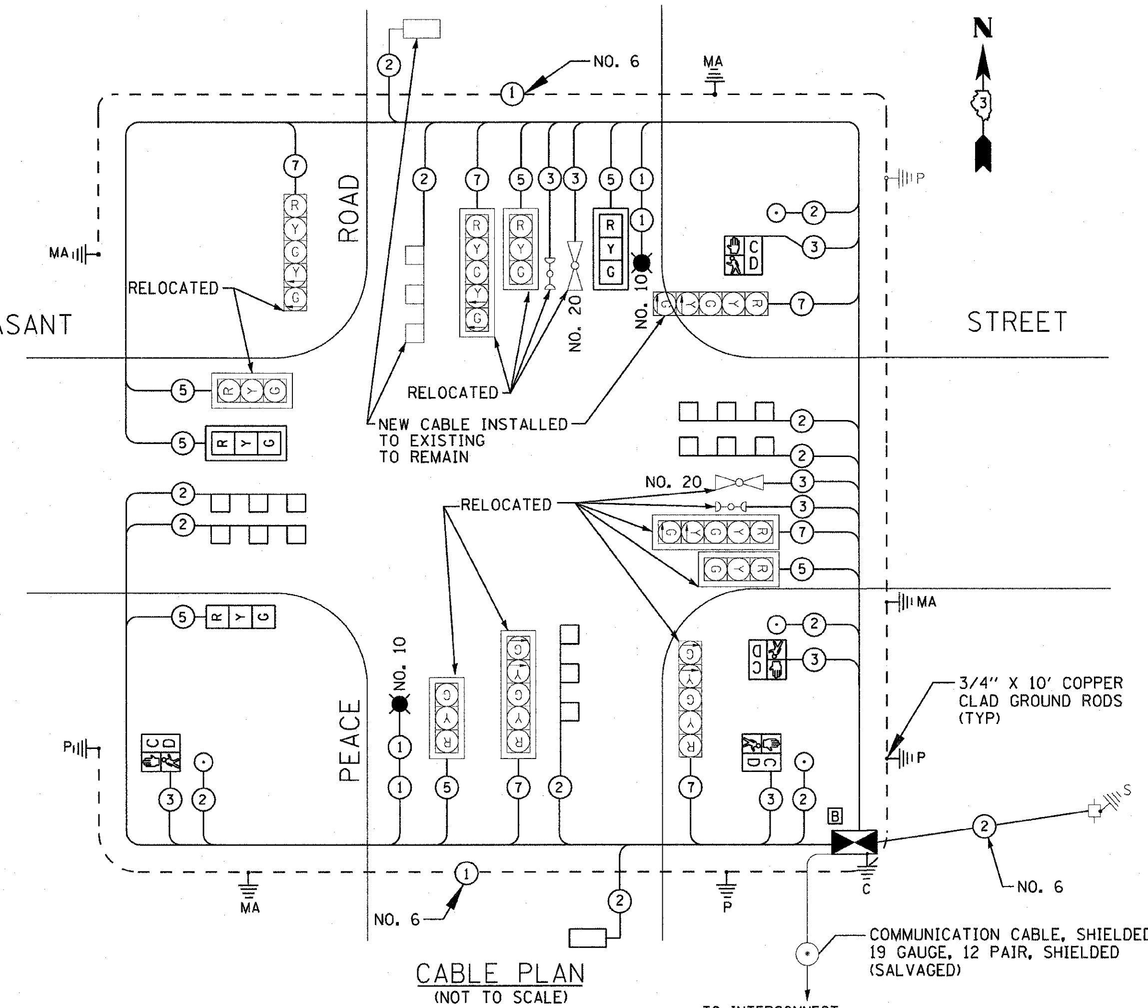
TRAFFIC SIGNAL SCHEDULE

PAY ITEM	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	30
CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	2,239
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	2,231
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	74
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	24
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 1 1/2" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	163
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	9
HEAVY-DUTY HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2,633
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	2
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	437
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	719
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1,587
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1,036
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,667
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	32
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	2
DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
DETECTOR LOOP, TYPE I	FOOT	977
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	9
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,830
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	2,829
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	5
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,146
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	299
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP) 2/C NO. 10	FOOT	483

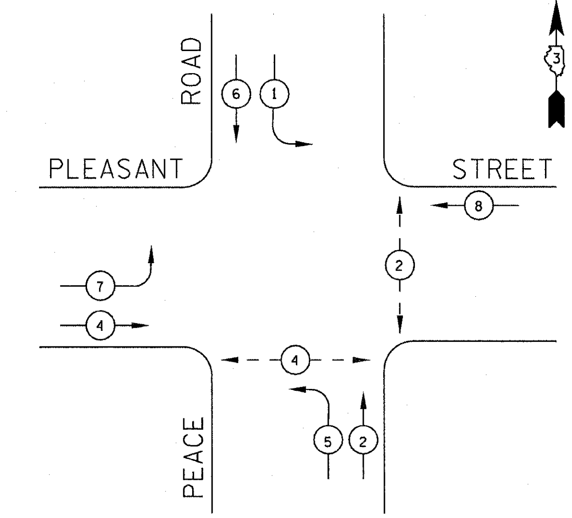


CABLE PLAN
(NOT TO SCALE)

CABLE PLAN LEGEND

EXISTING / PROPOSED	
	12" (300mm) TRAFFIC SIGNAL SECTION
	12" (300mm) PEDESTRIAN SIGNAL SECTION
	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
	CONTROLLER CABINET
	SERVICE INSTALLATION
	TELEPHONE CONNECTION
	VEHICLE DETECTOR, INDUCTION LOOP
	MAGNETIC DETECTOR
	EMERGENCY VEHICLE LIGHT DETECTOR
	CONFIRMATION BEACON
	PUSHBUTTON DETECTOR
	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F SM12F
"P" / "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
"E"	RAILROAD CONTROL CABINET
"E"	ILLUMINATED SIGN, "NO LEFT TURN"
"E"	ILLUMINATED SIGN, "NO RIGHT TURN"
	GROUND CABLE 1C NO.6
H/C / C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P / P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
S / S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
B	UPS BATTERY BACKUP

CONTROLLER SEQUENCE

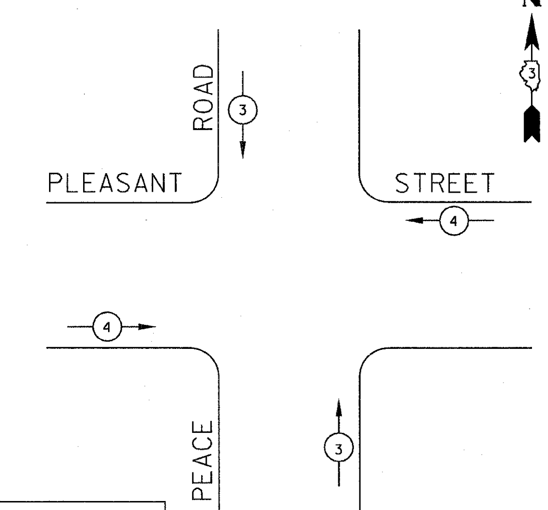


LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION		
EMERGENCY VEHICLE PREEMPTION	3	4
MOVEMENT	↓↑	← →

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	12		12	0.10	14.4
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	--		--	0.05	--
FLASHER				0.50	--
				TOTAL =	436.4

ENERGY COSTS TO:
CITY OF DeKALB
200 S. FOURTH STREET
DeKALB, ILLINOIS 60115

ENERGY SUPPLY CONTACT: LOUIS HICKS
PHONE: 847-816-5489
COMPANY: COM ED

FOUNDATION (DEPTH)	FT. (m)
TYPE A - POST	4 (1.2)
C - CONTROLLER	4 (1.2)
E - M. ARM POLE	
24" (600mm)	10 (3.0)
30" (750mm)	15 (4.6)

CABLE SLACK	FT. (m)
HANDHOLE	6.5 (2.0)
DOUBLE HANDHOLE	13 (4.0)
SIGNAL POST	2 (1.0)
CONTROLLER CAB.	6 (2.0)
FIBER OPTIC	13 (4.0)
ELECTRIC SERVICE	1 (0.5)
GROUND CABLE	1 (0.5)

VERTICAL	FT. (m)
ALL FOUNDATIONS	3.5 (1.0)
MAST ARM (L) POLE	20'+L-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)

NOTES:

1. THE NEUTRAL AND GROUND SHALL BE TIED AT THE SERVICE INSTALLATION, BUT SHALL BE SEPERATED AT THE TRAFFIC SIGNAL CABINET.

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - DJS	REVISED -08-4-2010 IDOT REVIEW
DRAWN - UKB	REVISED
CHECKED - RWL	REVISED -
DATE - 05-03-2010	FILE NAME - 081068-TS-CABLE.dgn

CITY OF DeKALB , ILLINOIS
PEACE ROAD
IMPROVEMENTS

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

SCALE: N/A | STA. N/A | TO STA. N/A

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5369	06-00172-00-WR	DeKALB	64	45
		CONTRACT NO. 87465		

FED. ROAD DIST. NO. 3 | ILLINOIS | FED. AID PROJECT M-5017 (043)