

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	40
SIGN PANEL - TYPE 2	SQ FT	60
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FT	825
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FT	29
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FT	66
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FT	30
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FT	602
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FT	98
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FT	929
HANDHOLE	EA	7
HEAVY-DUTY HANDHOLE	EA	4
DOUBLE HANDHOLE	EA	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FT	950
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EA	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FT	2533
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FT	4569
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FT	3575
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FT	2251
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 1 PAIR	FT	7421
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2/C	FT	37
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EA	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 60 FT.	EA	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 64 FT.	EA	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 66 FT.	EA	1
CONCRETE FOUNDATION, TYPE A	FT	16
CONCRETE FOUNDATION, TYPE C	FT	4
CONCRETE FOUNDATION, TYPE E 42 INCH DIAMETER	FT	4
SIGNAL HEAD, LED, 1 FACE, 3 SECTION, MAST-ARM MOUNTED	EA	8
SIGNAL HEAD, LED, 1 FACE, 5 SECTION, MAST-ARM MOUNTED	EA	4
SIGNAL HEAD, LED, 2 FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EA	4
PEDESTRIAN SIGNAL HEAD, 1-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	2
PEDESTRIAN SIGNAL HEAD, 2-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	2
PEDESTRIAN SIGNAL HEAD, 3-FACE, LED, BRACKET MOUNTED WITH COUNTDOWN TIMER	EA	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EA	12
INDUCTIVE LOOP DETECTOR	EA	21
# LIGHT DETECTOR	EA	4
# LIGHT DETECTOR AMPLIFIER	EA	1
PEDESTRIAN PUSH-BUTTON	EA	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EA	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EA	1
REMOVE EXISTING HANDHOLE	EA	14
REMOVE EXISTING CONCRETE FOUNDATION	EA	8
PREFORMED DETECTOR LOOP	FT	1283
TEMPORARY TRAFFIC SIGNAL TIMING	EA	1
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM (SPECIAL)	EA	1
RELOCATE EXISTING SWITCH (SPECIAL)	EA	1
SERVICE INSTALLATION, POLE MOUNT	EA	1
UNINTERRUPTIBLE POWER SUPPLY	EA	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1/C	FT	801
# ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED	FT	1252
ELECTRIC CABLE IN CONDUIT, VIDEO NO. 20 4C	FT	102
COAXIAL CABLE IN CONDUIT	FT	102

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE	% OPERATIONS	TOTAL WATTAGE	
		INCAND.	LED		
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	16		12	0.10	19.2
PED. SIGNAL	12		25	1.00	300
CONTROLLER	1	100	100	1.00	100
FLASHER			25	0.50	
TOTAL = 789.2					
ENERGY COSTS TO: VILLAGE OF LIBERTYVILLE					
118 WEST COOK AVENUE					
LIBERTYVILLE, ILLINOIS 60048					
ENERGY SUPPLY: CONTACT:		JOE HURLEY			
PHONE:		(847) 816-5503			
COMPANY:		COM ED			

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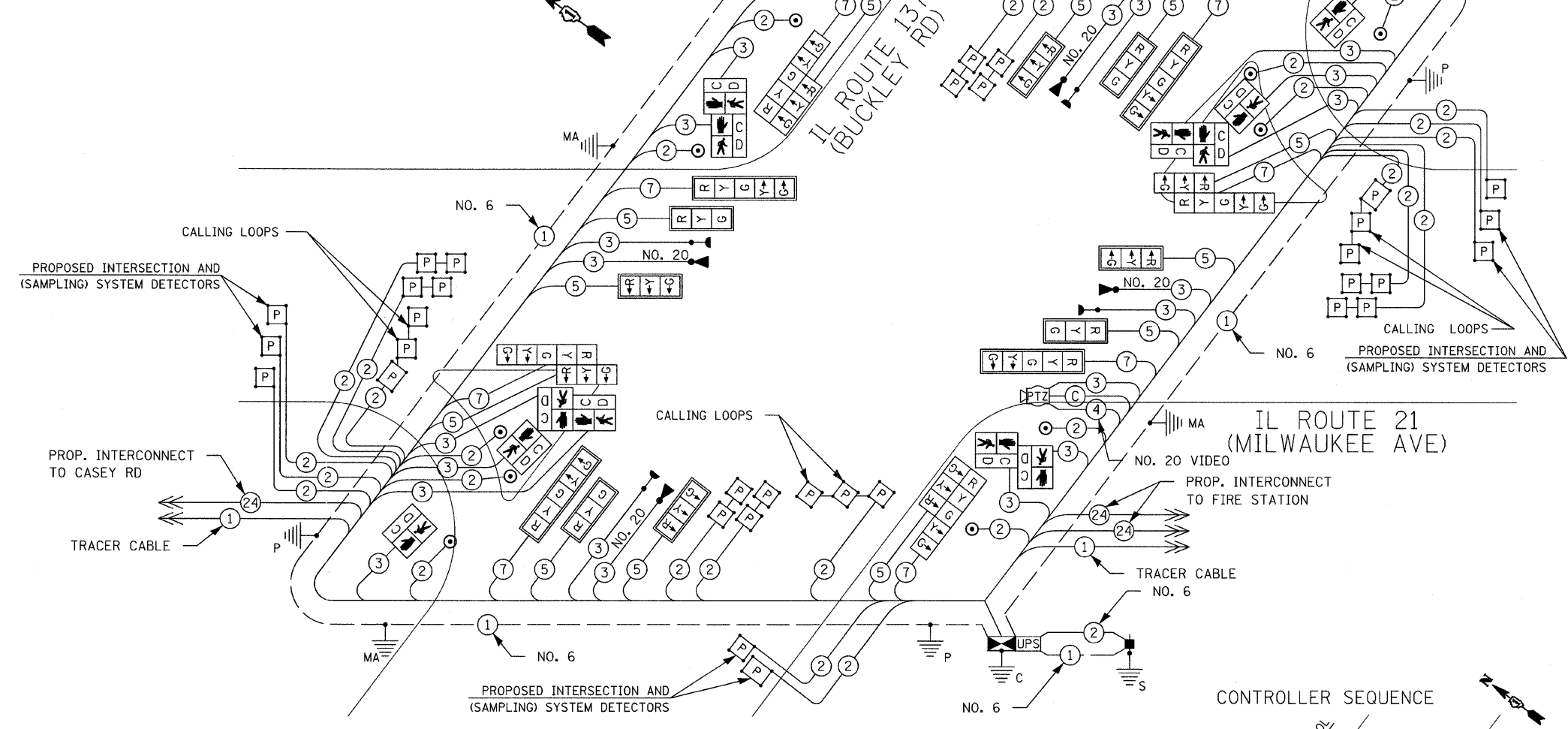
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USER NAME = Toby Mokey
 DESIGNED - TM
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 CHECKED - YK
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 ILL RTE 21 (MILWAUKEE AVE.) AT ILL RTE 137 (BUCKLEY RD.)
 SCALE: NTS SHEET NO. 17 OF 41 SHEETS STA. TO STA.
 F.A.P. RTE. 330 SECTION 128R-3 COUNTY LAKE TOTAL SHEETS 518 SHEET NO. 205 CONTRACT NO. 60953
 ILLINOIS FED. AID PROJECT

NOTE:
 EXISTING RED LIGHT RUNNING (RLR) EQUIPMENT IS PRESENT AT THIS LOCATION. RELOCATION OF THE EQUIPMENT IS BY OTHERS. THE CONTRACTOR SHALL CONTACT GATSO-USA AT (480) 315-1386 AND THE VILLAGE OF LIBERTYVILLE AT (847) 362-2430 TO COORDINATE THE REMOVAL/RELOCATION OF THE RLR EQUIPMENT BY OTHERS.



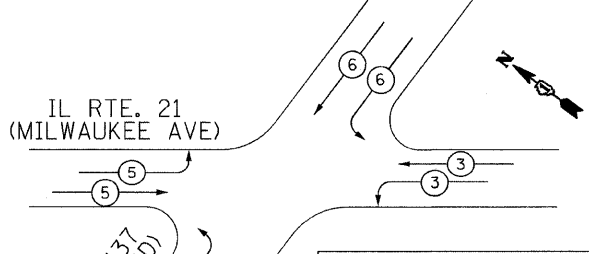
CABLE PLAN

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

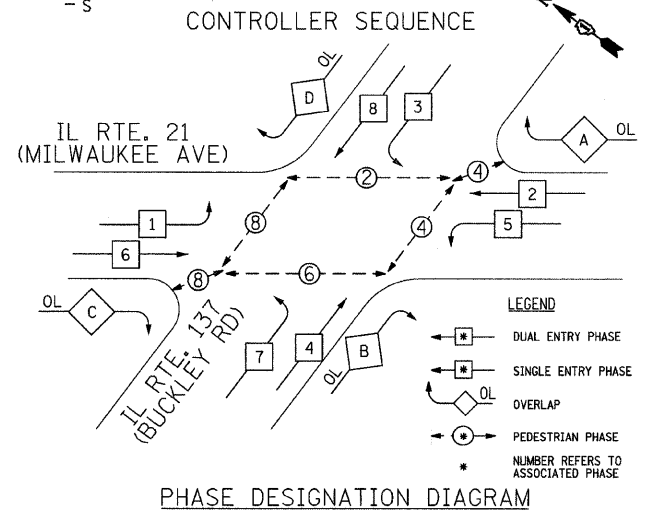
NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR MOVEMENT	PROPOSED EMERGENCY VEHICLE PREEMPTORS			
	3	4	5	6
→		↑	↓	←



OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1