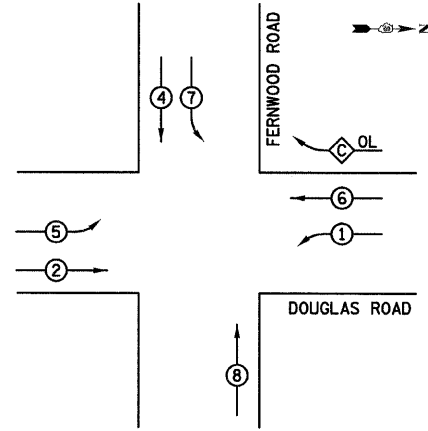


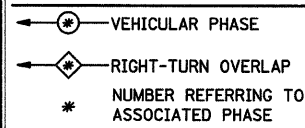
SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SO FT	20
SIGN PANEL - TYPE 2	SO FT	55
RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	452
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	405
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	51
CONDUIT PUSHED, 1" DIA., GALVANIZED STEEL	FOOT	75
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	35
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	224
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	EACH	892
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	193
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	561
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1608
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	905
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1928
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	50
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 15 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	30
DRILL EXISTING HANDHOLE	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	15
DETECTOR LOOP, TYPE I	FOOT	1689
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	FOOT	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	400
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	363
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	
REMOVE EXISTING HANDHOLE	EACH	

CONTROLLER SEQUENCE

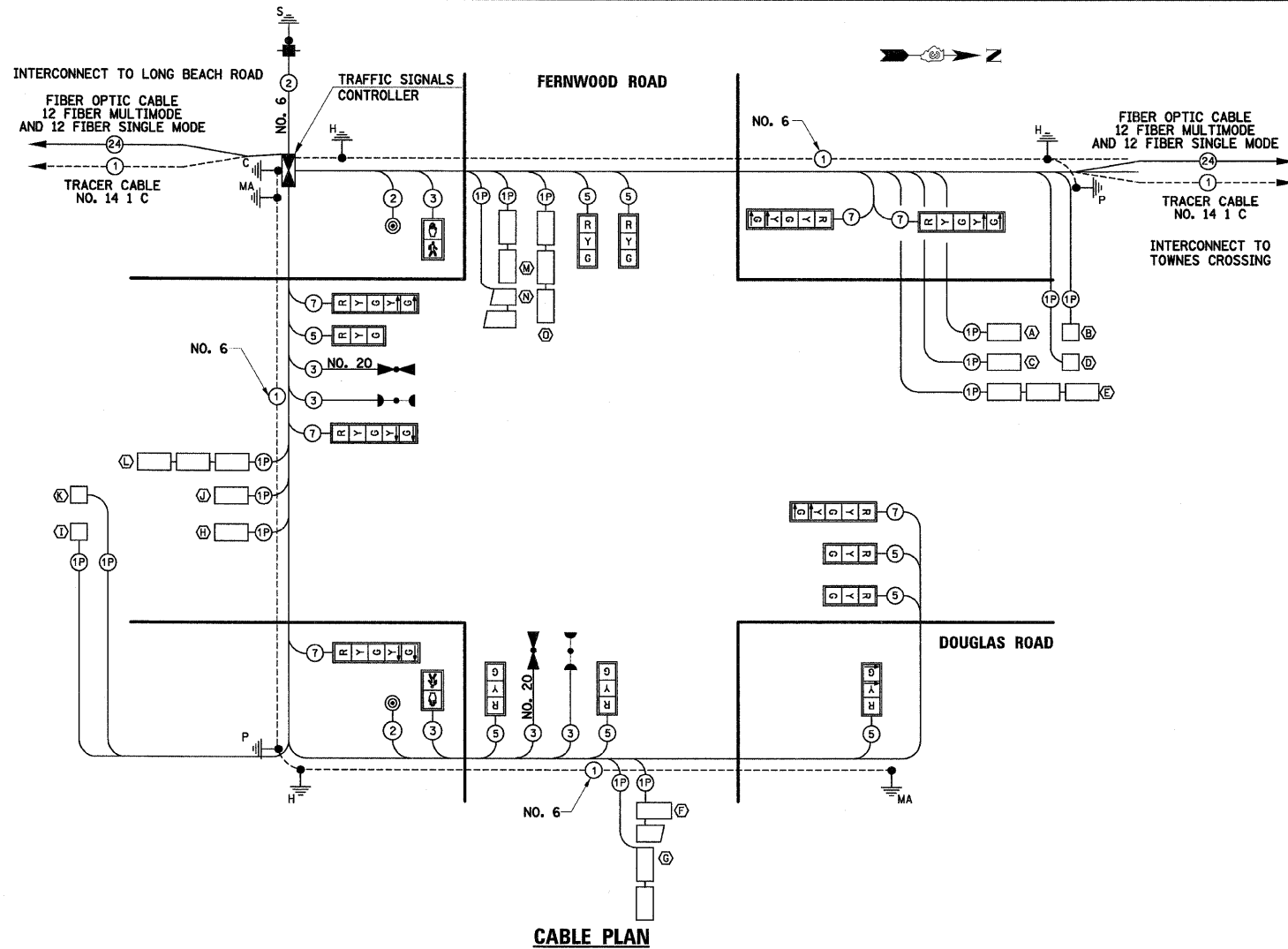


LEGEND



PHASE DESIGNATION DIAGRAM

OVERLAP PHASE C = 7 + 6
PROTECTED PHASE
PERMISSIVE PHASE

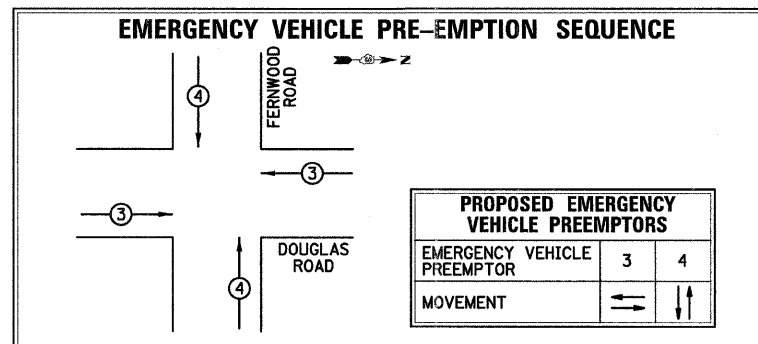


CABLE PLAN

CABLE DIAGRAM LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		LIGHT DETECTOR
		CONFIRMATION BEACON
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		LIGHTING UNIT
		12" TRAFFIC SIGNAL SECTION
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		PUSHBUTTON DETECTOR

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE



DOUGLAS ROAD AT FERNWOOD ROAD DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	6	SB WSTBR	4	156	48798	OFF
B	6	SB WFR	6	315	34413	ON
C	6	SB ESTBR	4	156	48798	OFF
D	6	SB EFR	6	315	34413	ON
E	1	SB LT	4	315	34377	ON
F	8	WNB	4	289	35900	ON
G	8	EWB	4	306	34869	ON
H	2	NB ESTBR	4	174	46308	OFF
I	2	NB EFR	6	455	28617	ON
J	2	NB WSTBR	4	174	46308	OFF
K	2	NB WFR	6	378	31396	ON
L	5	NBLT	4	332	33472	ON
M	4	WEBRT	4	172	46475	ON
N	4	EEBRT	4	142	51203	ON
O	7	EBLT	4	252	38459	ON

DOUGLAS ROAD AT FERNWOOD ROAD ELECTRICAL LOAD CHART

DOUGLAS ROAD			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	8	10	35
YELLOW	8	22	5
GREEN	8	12	60
YELLOW ARROW	7	10	5
GREEN ARROW	7	5	30

FERNWOOD ROAD			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	5	10	60
YELLOW	5	22	5
GREEN	5	12	35

TRAFFIC SIGNAL CABINET			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	2	6	100
LOOP DETECTORS	10	4	100
UPS	1	50	100

HIGHWAY LIGHTING			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	0	310	360 HRS/MONTH

ENERGY COSTS TO: VILLAGE OF OSWEGO
113 MAIN STREET
OSWEGO, ILLINOIS 60543

ENERGY SUPPLY CONTACT: JOE STACHO
PHONE: 630-424-5704
COMPANY: COMMONWEALTH EDISON

NOTES

1. THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "3M OPTICOM".
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" BRAND TO MATCH ADJACENT SIGNALS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. 2508 - DOUGLAS ROAD
(U.S. RTE 34 TO U.S. RTE 30)
FERNWOOD ROAD
CABLE PLAN

SCALE: VERT. N.T.S.
HORIZ.
DATE: _____ DRAWN BY: _____
CHECKED BY: _____

PLAN SURVEYED BY: _____ DATE: _____
PLOTTED BY: _____
NOTE BOOK NO. _____
DRAWN BY: _____
CHECKED BY: _____

PROFILE SURVEYED BY: _____ DATE: _____
PLOTTED BY: _____
NOTE BOOK NO. _____
DRAWN BY: _____
CHECKED BY: _____