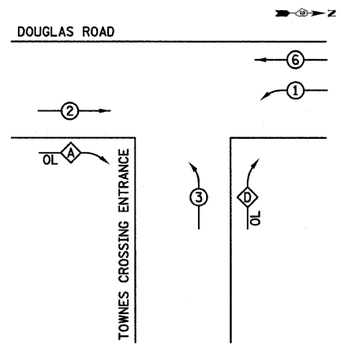
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2508	02-00039-00-PV	KENDALL	146	86
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

87333

CONTROLLER SEQUENCE

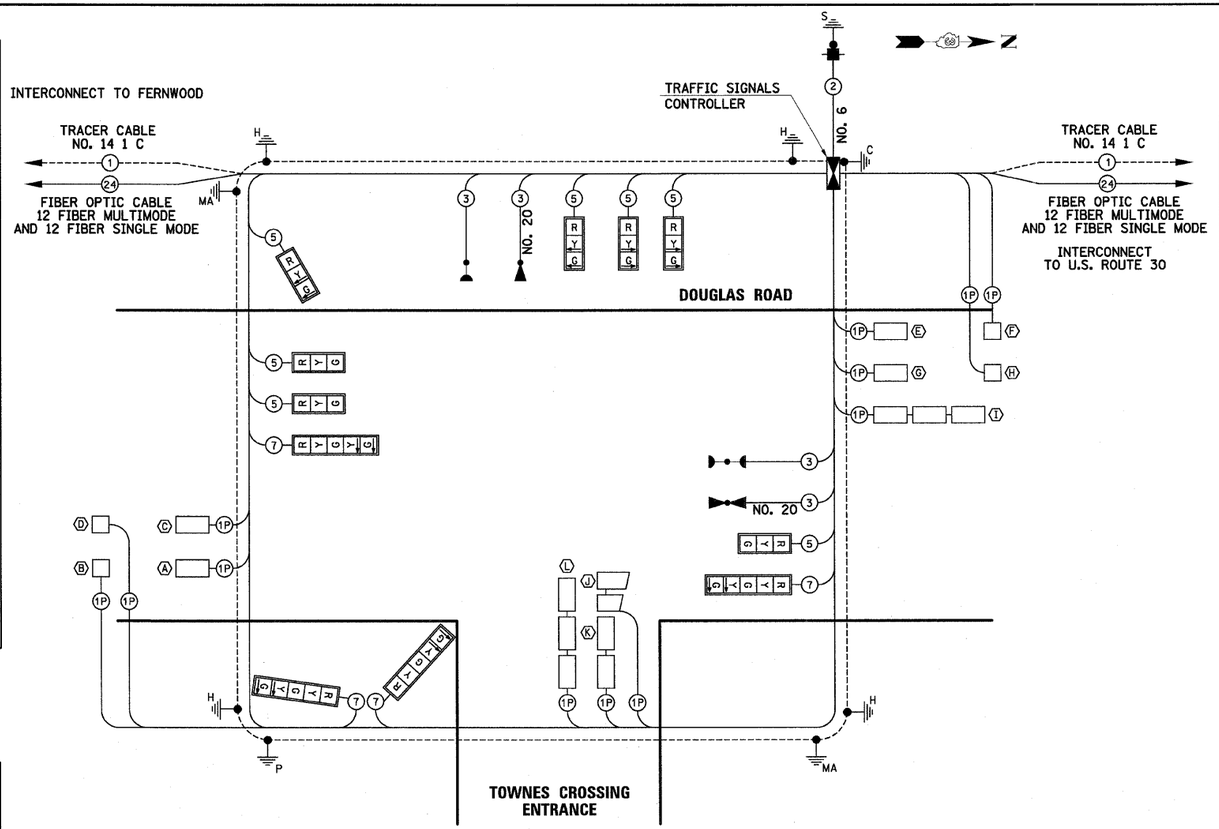


LEGEND

- VEHICULAR PHASE
- RIGHT-TURN OVERLAP
- * NUMBER REFERRING TO ASSOCIATED PHASE

OVERLAP PHASE		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	3	+	1

PHASE DESIGNATION DIAGRAM



CABLE PLAN

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	SQ FT	5
SIGN PANEL - TYPE 2	SQ FT	37.5
RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	569
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	273
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	300
CONDUIT PUSHED, 1" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	352
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	854
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	239
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	903
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	887
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1926
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	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
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	1
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	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 38 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 48 FT.	EACH	
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	39
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	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1116
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	
REMOVE ELECTRIC 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	449
ELECTRIC CABLE IN CONDUIT, NO.20 3C, TWISTED, SHIELDED	FOOT	248
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	
REMOVE EXISTING HANDHOLE	EACH	

DOUGLAS ROAD AT TOWNES CROSSING ENTRANCE ELECTRICAL LOAD CHART

DOUGLAS ROAD

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	7	10	35
YELLOW	7	22	5
GREEN	7	12	60
YELLOW ARROW	4	10	5
GREEN ARROW	4	5	30

TOWNES CROSSING ENTRANCE

RED	4	10	60
YELLOW ARROW	4	10	5
GREEN ARROW	4	5	35

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	2	6	100
LOOP DETECTORS	11	4	100
UPS	1	50	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	2	310	360 HRS/MONTH

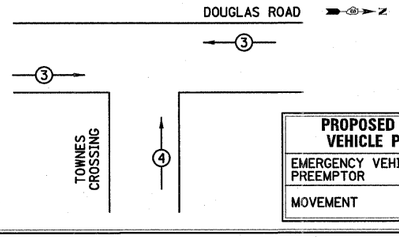
ENERGY COSTS TO: VILLAGE OF OSWEGO
113 MAIN STREET
OSWEGO, ILLINOIS 60543

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

CABLE DIAGRAM LEGEND

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

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

DOUGLAS ROAD AT TOWNES CROSSING ENTRANCE DETECTOR LOOP INDUCTANCE CHART

LOOP SYSTEM	PHASE	LABEL	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	2	NB ESTBR	4	236	39700	OFF
B	2	NB EFAR	5	336	33272	ON
C	2	NB WSTBR	4	236	39700	OFF
D	2	NB WFAR	5	336	33272	ON
E	6	SB WSTBR	4	93	63264	OFF
F	6	SB WFAR	5	297	35422	ON
G	6	SB ESTBR	4	93	63264	OFF
H	6	SB EFAR	5	297	35422	ON
I	1	SBLT	4	252	38459	ON
J	D	WWBRT	4	211	41986	ON
K	D	EWBRT	4	238	39563	ON
L	3	WBLT	4	317	34260	ON

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)

TOWNES CROSSING ENTRANCE CABLE PLAN

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

PLAN: DATE | BY | SURVEYED | DRAWN | ALIGNMENT CHECKED | GRADES CHECKED | FIELD BK. NO. | ROAD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | DRAWN | GRADES CHECKED | BAL. NOTED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO.

3:48:59 AM
3/28/2007
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