

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	23
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1,255
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	162
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	145
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	85
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	395
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	49
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1,192
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	10
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,683
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	315
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,292
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,665
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	319
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7,607
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,139
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3C	FOOT	438
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	9
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	36
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	40
SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONITE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	17
DETECTOR LOOP, TYPE 1	FOOT	1,928
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,241
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	919
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

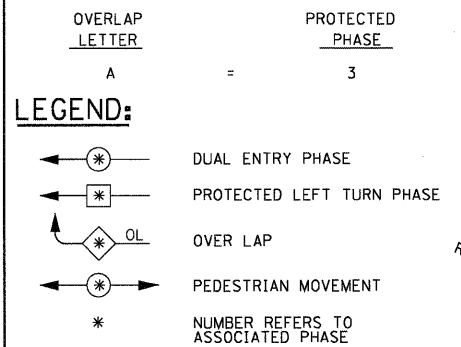
DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	328	33686	OFF
B	6	441	29056	ON
C	4	348	32706	ON
D	4	294	35567	OFF
E	6	364	32002	ON
F	4	265	37470	ON
G	4	334	33397	ON

PROPOSED CABLE PLAN LEGEND

- TRAFFIC SIGNAL HEAD WITH BACK PLATE
- GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL WITH COUNTDOWN TIMER
- POWER SERVICE INSTALLATION-POST MOUNTED
- PEDESTRIAN PUSH BUTTON-(SEE NOTE 2)
- CONTROLLER AND CABINET-(SEE NOTE 1)
- DETECTOR LOOP
- DETECTOR LOOP SYSTEM

PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	OPERATION	
SIGNAL (RED)	16	17	0.50		136.00
(YELLOW)	16	25	0.25		100.00
(GREEN)	16	15	0.25		60.00
ARROW	15	12	0.10		18.00
PED. SIGNAL	4	25	1.00		100.00
CONTROLLER	1	100	1.00		100.00
FLASHER			0.50		

ENERGY COSTS TO: VILLAGE OF BRADLEY TOTAL = 514.00
147 S. MICHIGAN AVE. BRADLEY, ILLINOIS 60915 (815) 932-2125

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: _____

CONTROLLER SEQUENCE

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE
A = 2 + 3

EMERGENCY VEHICLE PREEMPTOR SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	↑ ↓

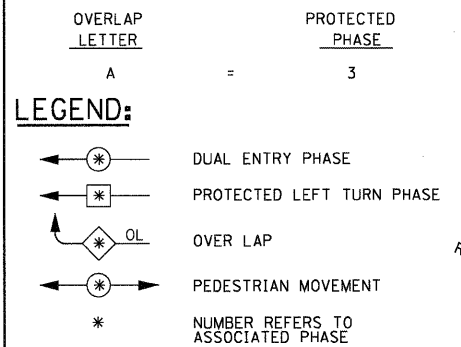
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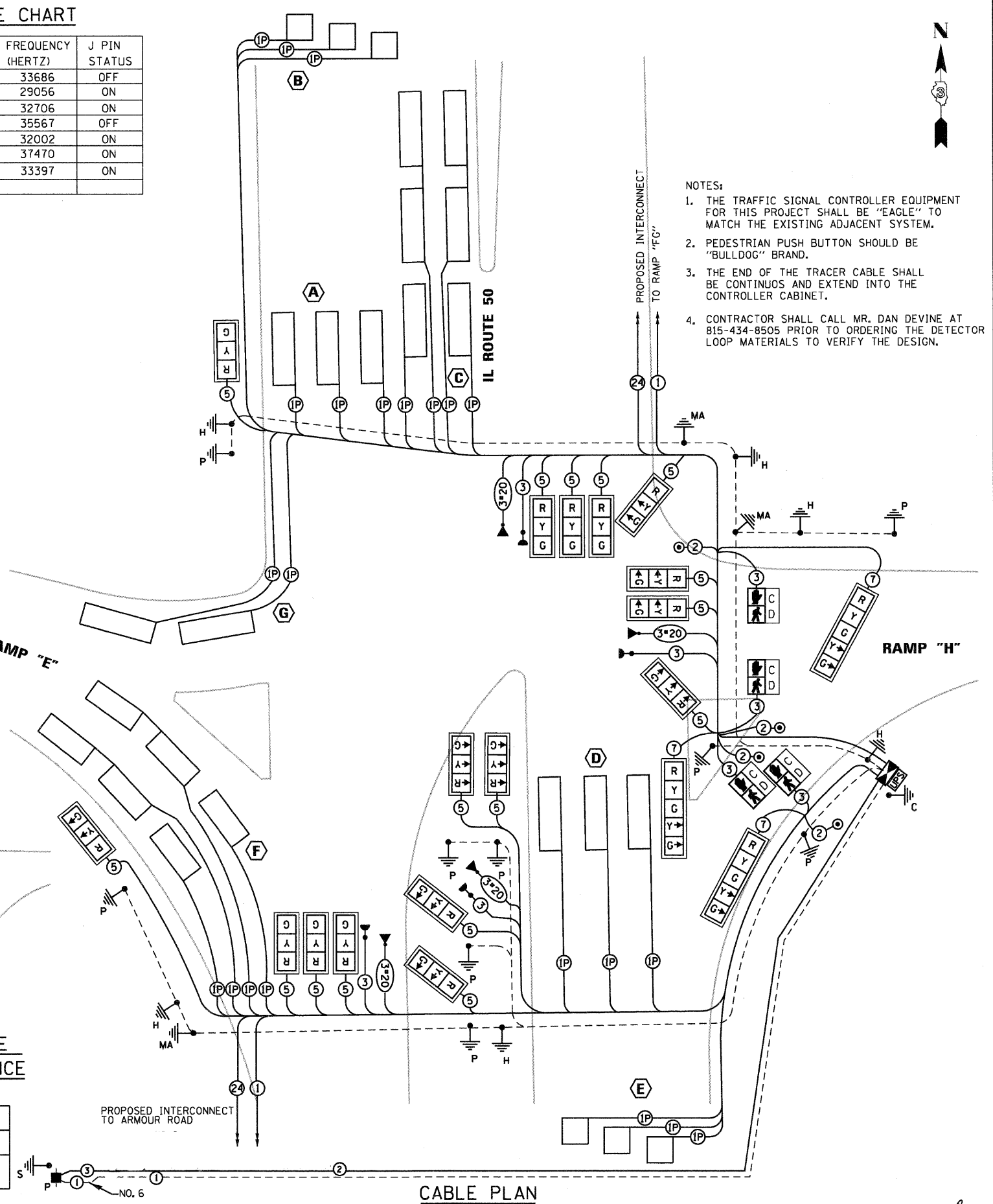
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EMERGENCY VEHICLE PREEMPTOR SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	↑ ↓



- NOTES:**
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 - PEDESTRIAN PUSH BUTTON SHOULD BE "BULLDOG" BRAND.
 - THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
 - CONTRACTOR SHALL CALL MR. DAN DEVINE AT 815-434-8505 PRIOR TO ORDERING THE DETECTOR LOOP MATERIALS TO VERIFY THE DESIGN.

Delta Engineering, Inc.
 CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS
 111 West Jackson Blvd., Suite 910, Chicago, IL 60604-2001

FILE NAME = G:\zcd48483\ts-7.dgn	USER NAME = kkhon	DESIGNED - JA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL SCHEDULE OF QUANTITIES, CABLE PLAN & PHASE DESIGNATION DIAGRAM RAMP EH & IL 50	F.A.I. RTE. = 57	SECTION = (46-2) I, HBR, VBR	COUNTY = KANKAKEE	TOTAL SHEETS = 558	SHEET NO. = 232
PLOT SCALE = NONE	CHECKED - HS	REVISED -	SCALE: _____			SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT	CONTRACT NO. 66409	
PLOT DATE = 12/17/2010	DATE = 12-17-2010	REVISED -								
Rev. FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT										