

PLOTTED/REVISED: 30-AUG-2022

DISTRICT #: Metro  
I/PLOT NAME: T3968919\_sgl  
PATH & FILENAME: Projects\DM\_R05\212\00001\Traffic\Signals\31\_38\_FAXON RD-3968919\T3968919\_sgl.dgn

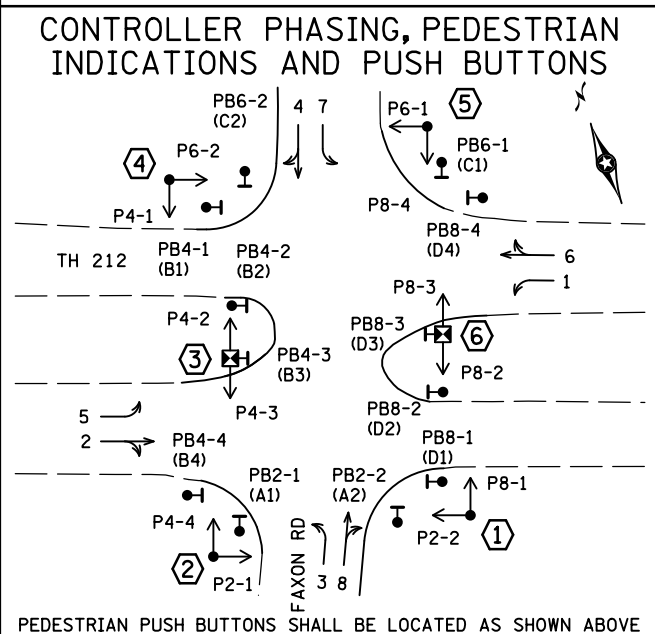
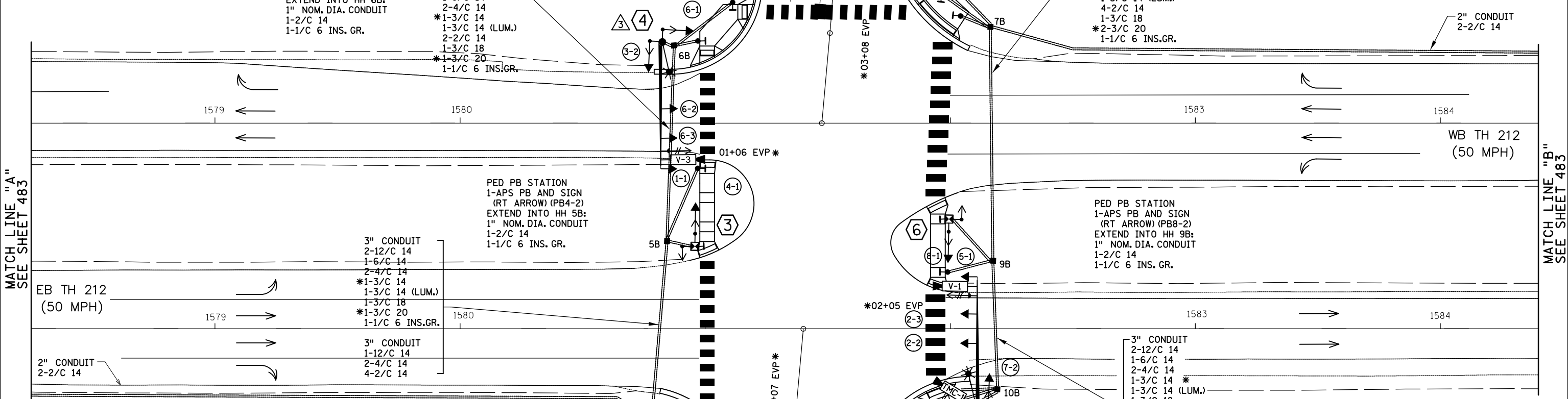
LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D2-1, D2-2	6x6	400
D6-1, D6-2	6x6	400

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE  
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

VIDEO DETECTION CHART		
CAMERA NUMBER	LOCATION	PHASE
V1	POLE 1	5
V2	POLE 2	4 & 7
V3	POLE 4	1
V4	POLE 5	3 & 8

SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	●	●	●	●
3-1, 3-2	←	←	←	←
4-1, 4-2, 4-3	●	●	●	●
5-1, 5-2	←	←	←	←
6-1, 6-2, 6-3	●	●	●	●
7-1, 7-2	←	←	←	←
8-1, 8-2, 8-3	●	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED  
-ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS  
-FYA DENOTES FLASHING YELLOW ARROW



### SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.  
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.  
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

NO	DATE	BY	CKD	APPR	REVISION
1	8/30/22	SJK			AS-BUILT PLAN

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Print Name: ADRIAN S. POTTER

Date: 2/28/20 License #: 42785

SYSTEM ID NO: 3968919  
TE NO: 18574  
METER ADDRESS: 300 FAXON RD N

DRAWN BY: M. BRESSLER  
DESIGNED BY: M. BRESSLER  
CHECKED BY: A. POTTER  
COMM. NO. 11228.02

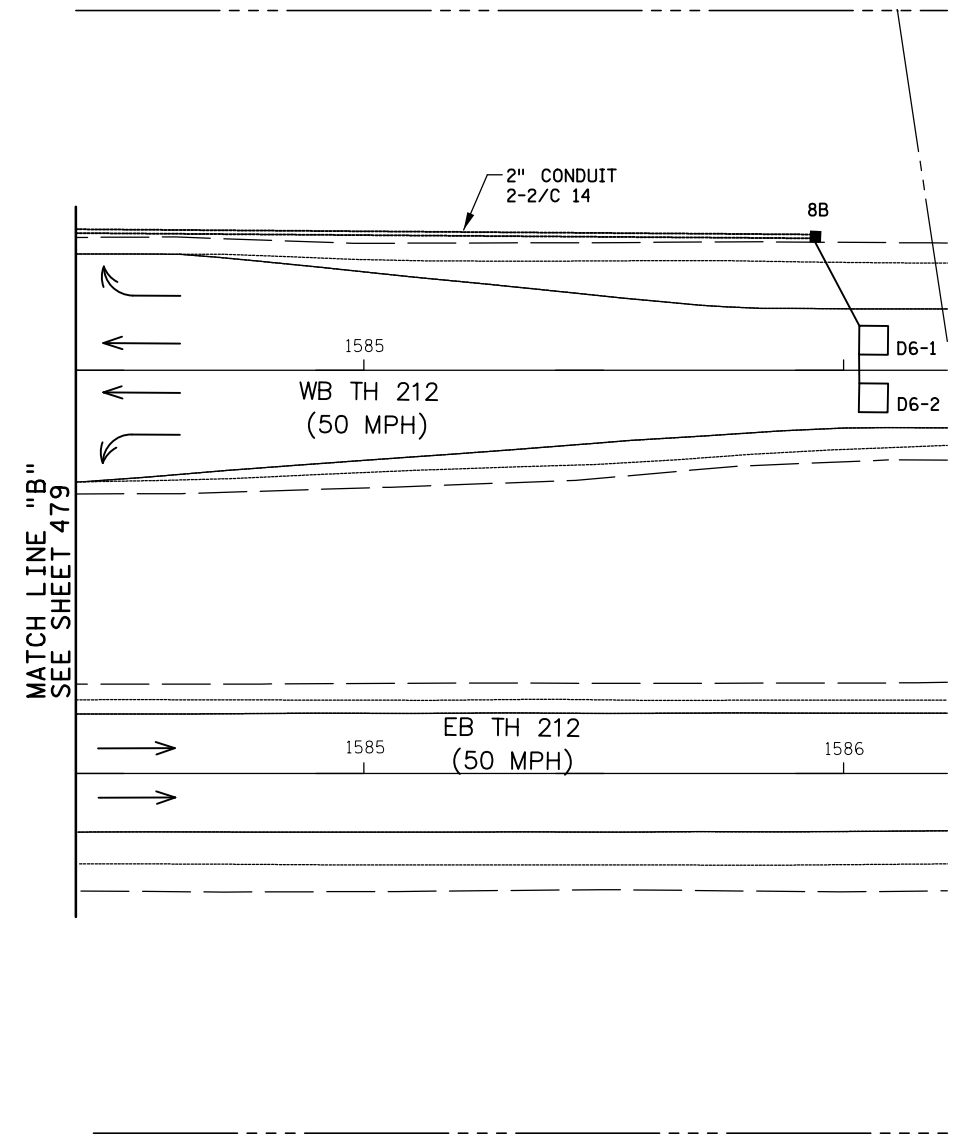
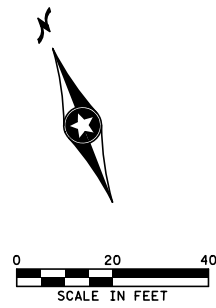
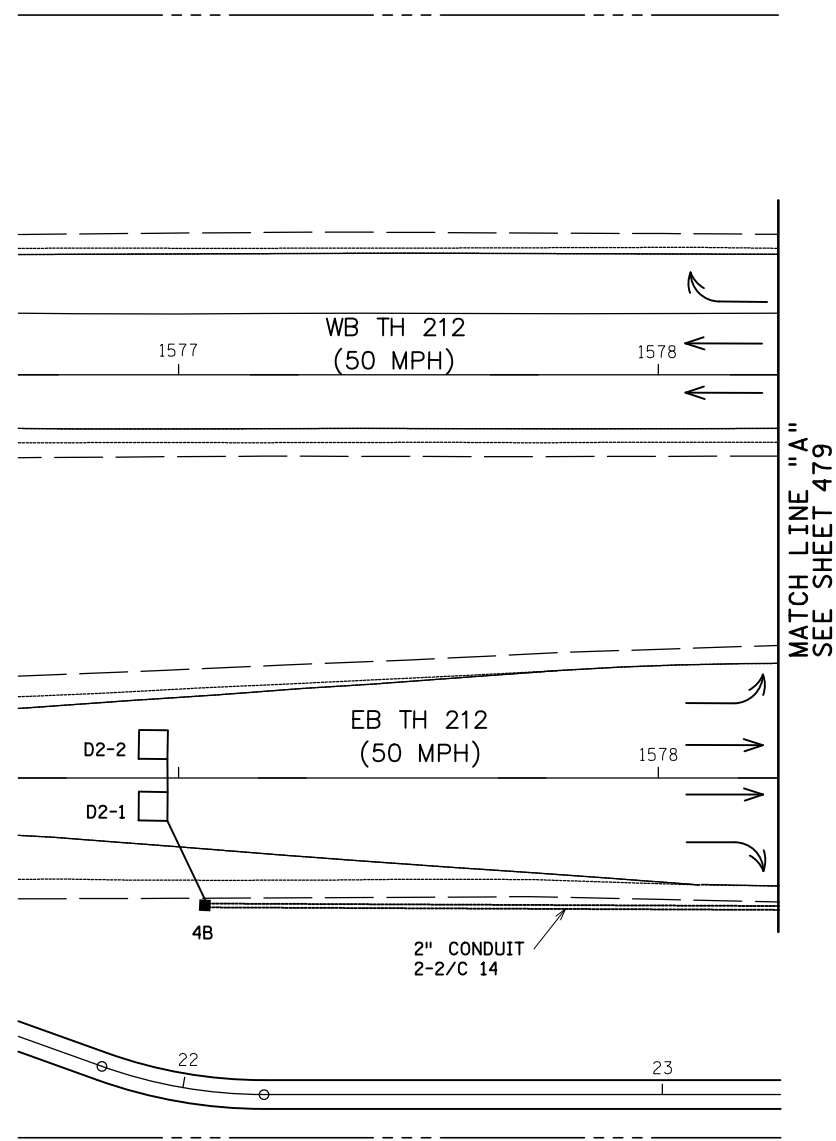
MINNESOTA DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS

SP 1012-24, SP 1013-097, SP 010-591-001 TH 212 REHABILITATION INTERSECTION LAYOUT TH 212 AT FAXON RD (SYS "B")

SHEET 479 OF 499

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DRAWN BY  
 M. BRESSLER  
 DESIGNED BY  
 M. BRESSLER  
 CHECKED BY  
 A. POTTER  
 COMM. NO. 11228.02



MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL PLANS  
 SP 1012-24, SP 1013-097, SP 010-591-001 TH 212 REHABILITATION  
 MATCH LINE LAYOUT  
 TH 212 AT FAXON RD (SYS "B")

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**INTERSECTION NOTES**

**1** PA100 POLE FOUNDATION  
 TYPE PA100-A-50-X6-350/CAM 400 EXTENSION  
 (DAVIT AT 350 DEG)  
 (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID  
 AND GROUND ROD)  
 1-TRAFFIC MANAGEMENT CAMERA  
 (STATE FURNISHED) WITH MOUNT  
 1-PAIR SWING AWAY HINGES  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 14' AND 26'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 2-ANGLE MOUNT C.D. PED HEADS  
 AT 90 AND 180 DEG  
 1-ONE WAY EVP DETECTOR AND  
 \* CONFIRMATORY LIGHT (PHASES 2+5)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED)  
 INSTALL— MOUNTED ON 6' EXTENSION ARM AT 5' FROM END  
 OF MAST ARM  
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)  
 1-TYPE D SIGN (D-5) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 15B:  
 2-12/C 14  
 1-6/C 14  
 1-4/C 14  
 1-3/C 14  
 \* 1-3/C 14 (LUM)  
 1-3/C 18  
 1-3/C 20  
 \* 1-CAT 5E (IP CAMERA)  
 1-1/C 6 INS. GR.

**2** PA90 POLE FOUNDATION  
 TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 2-ANGLE MOUNT C.D. PED HEADS  
 AT 90 AND 180 DEG  
 \* 1-ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASES 4+7)  
 INSTALL—1-VIDEO DETECTION CAMERA (STATE FURNISHED)  
 MOUNTED ON 6' EXTENSION AT 5' FROM END  
 OF MAST ARM  
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)  
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 3B:  
 2-12/C 14  
 1-6/C 14  
 2-4/C 14  
 \* 1-3/C 14  
 1-3/C 14 (LUM)  
 1-3/C 18  
 \* 1-3/C 20  
 1-1/C 6 INS. GR.

**3** PEDESTAL FOUNDATION  
 13' PEDESTAL POLE PLUS BASE  
 1-STRAIGHT MOUNT SIGNALS  
 AT 270 DEG  
 2-STRAIGHT MOUNT C.D. PED HEAD  
 AT 180 AND 270 DEG  
 1-APS PB AND SIGN (LT ARROW) (PB4-3)  
 AND APS PB MOUNTING SPACERS  
 3" CONDUIT TO HH 6B:  
 1-12/C 14  
 2-4/C 14  
 1-2/C 14  
 1-1/C 6 INS. GR.

**4** PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)  
 1-PAIR SWING AWAY HINGES  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 2-ANGLE MOUNT C.D. PED HEADS  
 AT 90 AND 180 DEG  
 1-ONE WAY EVP DETECTOR AND  
 \* CONFIRMATORY LIGHT (PHASES 1+6)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED)  
 INSTALL— MOUNTED ON 6' EXTENSION AT 5' FROM END  
 OF MAST ARM  
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)  
 1-TYPE D SIGN (D-5) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 7B:  
 2-12/C 14  
 1-6/C 14  
 2-4/C 14  
 1-3/C 14  
 \* 1-3/C 14 (LUM)  
 1-3/C 18  
 1-3/C 20  
 \* 1-1/C 6 INS. GR.

**5** PA90 POLE FOUNDATION  
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG  
 2-ANGLE MOUNT C.D. PED HEADS  
 AT 90 AND 180 DEG  
 \* 1-TWO WAY EVP DETECTOR (PHASES 3+8), (PHASES 4+7) AND  
 1-CONFIRMATORY LIGHT (PHASES 3+8)  
 INSTALL—1-VIDEO DETECTION CAMERA (STATE FURNISHED)  
 MOUNTED ON 6' EXTENSION AT 5' FROM END  
 OF MAST ARM  
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)  
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)  
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 12B:  
 2-12/C 14  
 1-6/C 14  
 2-4/C 14  
 \* 1-3/C 14  
 1-3/C 14 (LUM)  
 1-3/C 18  
 \* 2-3/C 20  
 1-1/C 6 INS. GR.

**6** PEDESTAL FOUNDATION  
 13' PEDESTAL POLE PLUS BASE  
 1-STRAIGHT MOUNT SIGNAL  
 AT 270 DEG  
 2-STRAIGHT MOUNT C.D. PED HEAD  
 AT 180 AND 270 DEG  
 1-APS PB AND SIGN (LT ARROW) (PB8-3)  
 AND APS PB MOUNTING SPACERS  
 3" CONDUIT TO HH 14B:  
 1-12/C 14  
 2-4/C 14  
 1-2/C 14  
 2-1/C 6 INS. GR.

**A** EQUIPMENT PAD (SEE DETAIL SHEET)  
 SERVICE CABINET (SSB)  
 INSTALL—CONTROLLER AND CABINET (STATE FURNISHED)  
 3" CONDUIT TO HH 11B: 3" CONDUIT TO HH 1B:  
 3-12/C 14 3-12/C 14  
 1-6/C 14 1-6/C 14  
 3-4/C 14 3-4/C 14  
 \* 1-3/C 14 \* 1-3/C 14  
 1-1/C 6 INS. GR. 1-1/C 6 INS. GR.

3" CONDUIT TO HH 11B: 3" CONDUIT TO HH 1B:  
 2-12/C 14 2-12/C 14  
 1-6/C 14 1-6/C 14  
 3-4/C 14 3-4/C 14  
 \* 1-3/C 14 \* 1-3/C 14  
 \* 2-3/C 20 \* 1-3/C 20

3" CONDUIT TO HH 11B: 3" CONDUIT TO HH 1B:  
 8-2/C 14 8-2/C 14  
 2-3/C 18 2-3/C 18  
 \* 1-3/C 20 \* 1-3/C 20  
 1-CAT 5E (IP CAMERA)

GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD  
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)  
 1 1/2" CONDUIT STUBBED OUT (FOR TELEPHONE LINE/FIBER)  
 CONTROLLER CABINET TO SERVICE CABINET:  
 2" CONDUIT  
 2-1/C 6  
 1-1/C 6 INS. GR.  
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):  
 2" CONDUIT  
 1-6PR 19  
 SERVICE CABINET TO HH 1B:  
 2" CONDUIT  
 4-3/C 14 (LUM)  
 SERVICE CABINET TO EXTERNAL GR. RD.:  
 1" CONDUIT  
 1-1/C 6 INS. GR.  
 (SEE EQUIPMENT PAD LAYOUT)  
 SERVICE CABINET TO HH 11B:  
 2" CONDUIT  
 2-3/C 14 (LUM)

**B** SOP-GROUND MOUNTED TRANSFORMER  
 (APPROX. LOCATION)  
 2" CONDUIT INTO SERVICE CABINET:  
 3-1/C 2

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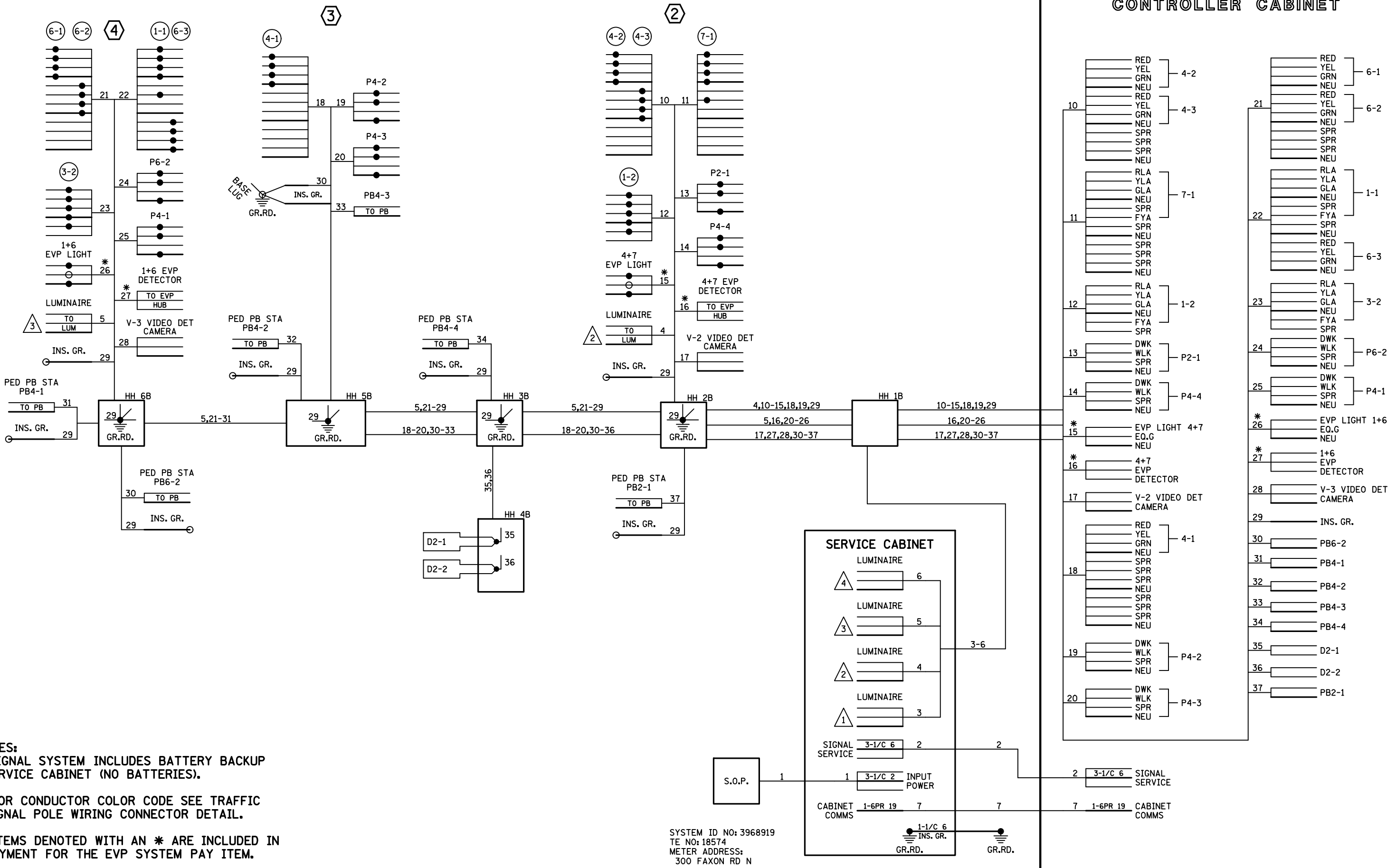
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 INTERSECTION NOTES  
 TH 212 AT FAXON RD (SYS "B")

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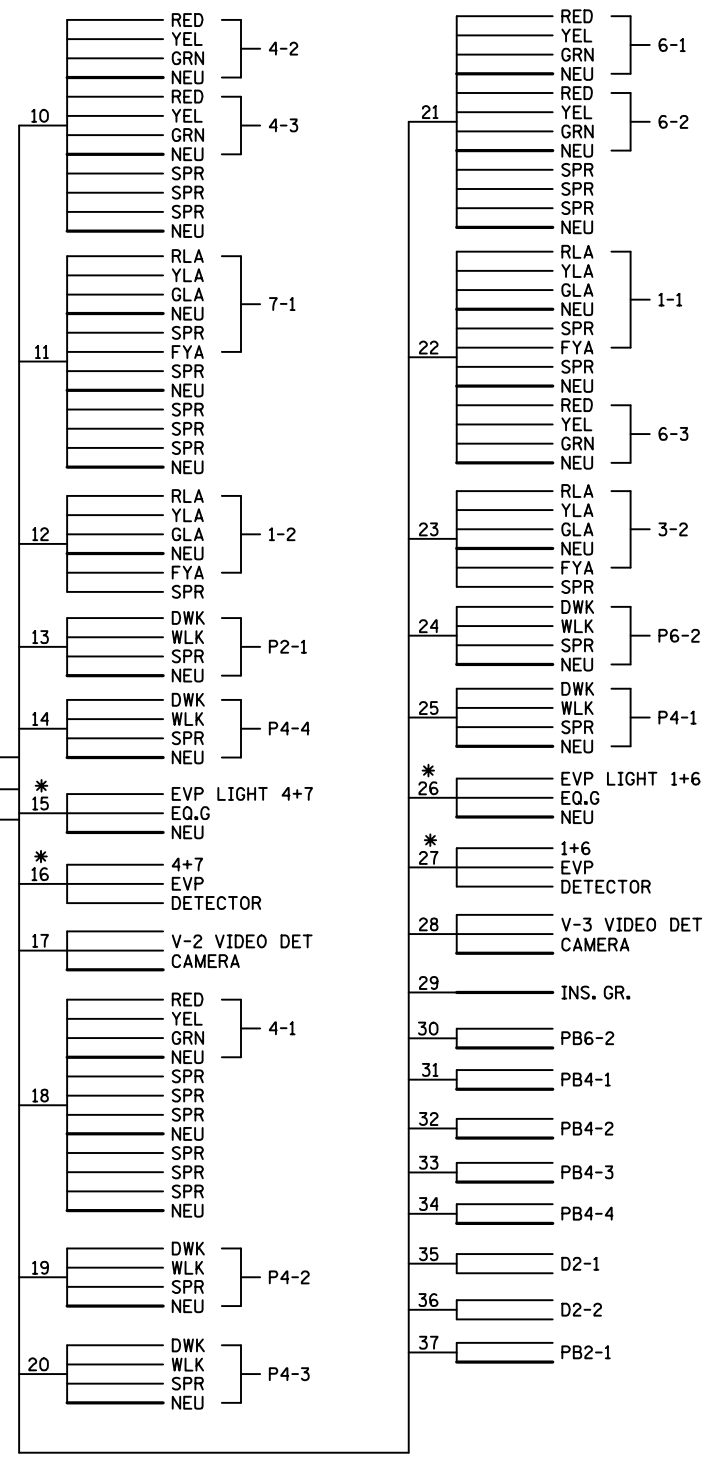
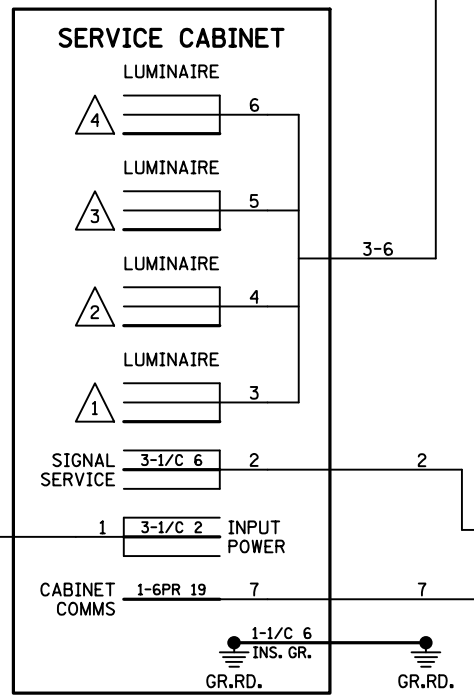
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### CONTROLLER CABINET



- NOTES:**
1. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET (NO BATTERIES).
  2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
  3. ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.

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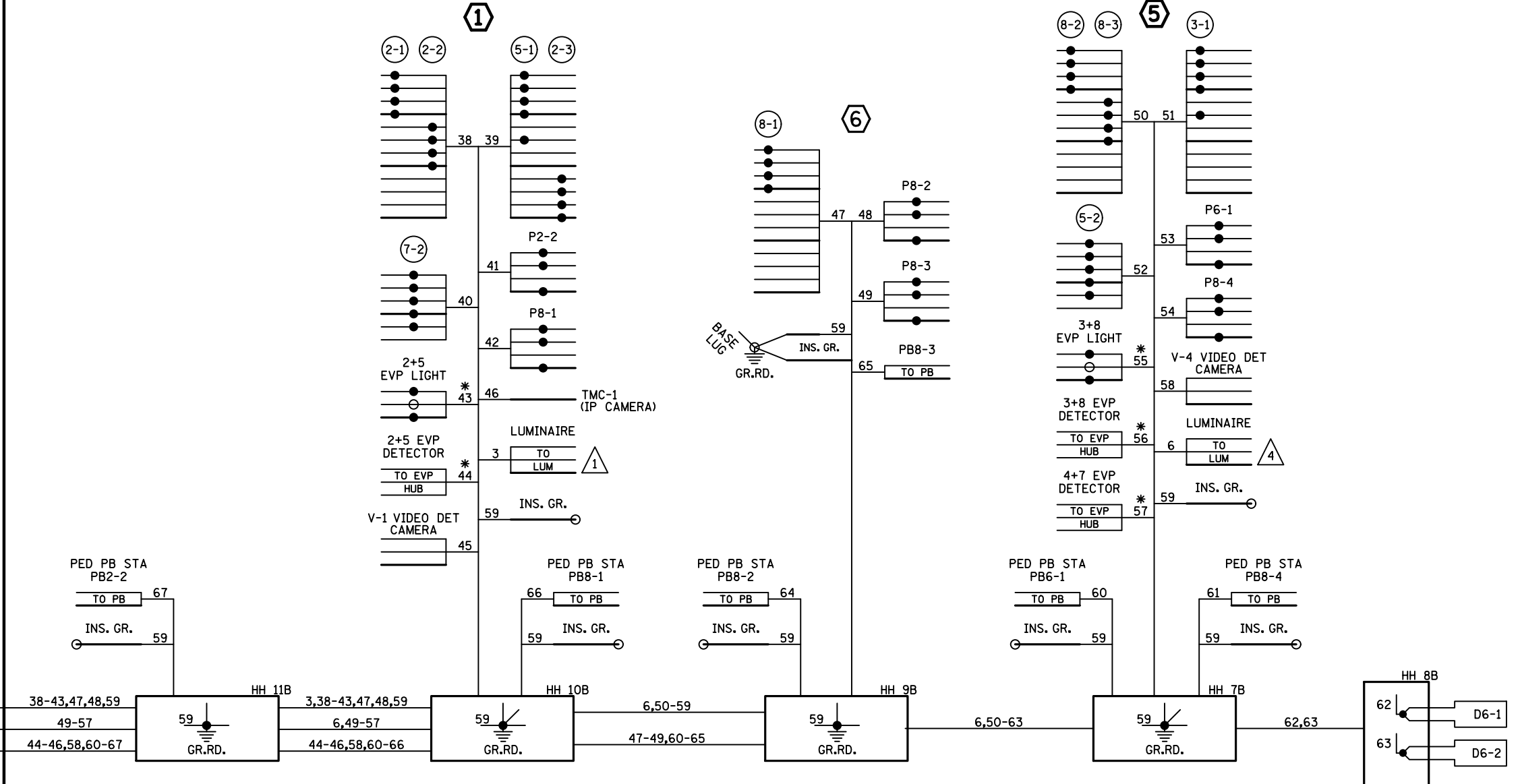
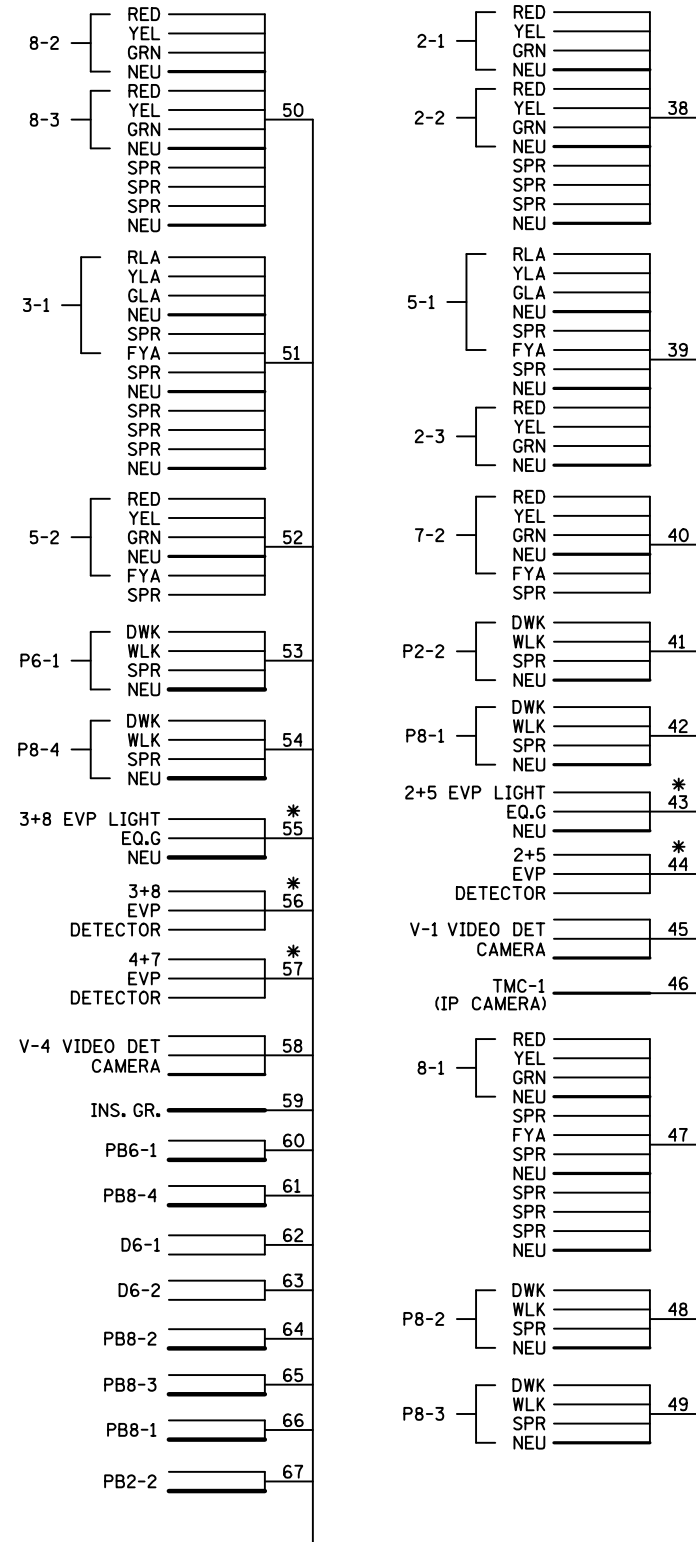
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SP 1012-24, SP 1013-097, SP 010-591-001 TH 212 REHABILITATION  
FIELD WIRING DIAGRAM  
TH 212 AT FAXON RD (SYS "B")

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