



INTERSECTION NOTES

③ X: 542757.55  
 Y: 154504.85  
 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 SIGNAL OVERHEAD AT 11' AND 22'  
 2-ANGLE MOUNT SIGNALS POLE MOUNTED 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 (PHASE 1+6)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5'  
 FROM END OF MAST ARM  
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT) <sup>△</sup>  
 1-TYPE R10-X12 SIGN ADJACENT TO HEAD 1-1  
 2-SIGNS (CARVER 61 DBL)(CHASKA BLVD) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 4:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14 (EVP)  
 1-3/C 14 (LUM)  
 1-3/C 18 (VID)  
 \* 1-3/C 20 (EVP)  
 1-1/C 6 INS. GR.

② X: 542869.14  
 Y: 154550.45  
 PA100 POLE FOUNDATION  
 TYPE PA100-A-50-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG)  
 (INCLUDES LIGHTING 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 SIGNAL OVERHEAD AT 11' AND 22'  
 2-ANGLE MOUNT SIGNALS POLE MOUNTED AT 90 AND 180 DEG  
 2-ANGLE MOUNT C.D. PED HEADS AT 90 AND 180 DEG  
 1-APS PB AND SIGN (LT ARROW) (PB2-1) AND APS POLE MOUNT ADAPTOR  
 \* 1-TWO WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 4+7, 3+8)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5'  
 FROM END OF MAST ARM  
 LUMINAIRE-LED (FOR 35' MOUNTING HEIGHT) <sup>△</sup>  
 1-TYPE R10-X12 SIGN ADJACENT TO HEAD 7-1  
 2-SIGNS (MN41 DBL)(CHESTNUT ST) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 3:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14 (EVP)  
 1-3/C 14 (LUM)  
 1-3/C 18 (VID)  
 \* 2-3/C 20 (EVP)  
 1-2/C 14  
 1-1/C 6 INS. GR.  
 1-CAT 5E TRA MGMT CAM  
 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH3

④ X: 542712.29  
 Y: 154619.61  
 PA100 POLE FOUNDATION  
 TYPE PA100-A-45  
 1-PAIR SWING AWAY HINGES  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 2-STRAIGHT MOUNT SIGNAL OVERHEAD AT 10' AND 21'  
 2-ANGLE MOUNT SIGNALS POLE MOUNTED 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 (PHASE 3+8)  
 \* 1-ONE WAY EVP DETECTOR POLE MOUNTED (PHASE 1+6)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5'  
 FROM END OF MAST ARM  
 1-TYPE R10-X12 SIGN ADJACENT TO HEAD 3-1  
 2-SIGNS (MN41 DBL)(CHESTNUT ST) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 5:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14 (EVP)  
 1-3/C 18 (VID)  
 \* 2-3/C 20 (EVP)  
 1-1/C 6 INS. GR.

① X: 542829.83  
 Y: 154676.16  
 PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)  
 1-PAIR SWING AWAY HINGES  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'  
 3-STRAIGHT MOUNT SIGNAL OVERHEAD AT 10', 21', AND 32'  
 2-ANGLE MOUNT SIGNALS POLE MOUNTED 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 (PHASE 2+5)  
 1-VIDEO DETECTION CAMERA (STATE FURNISHED) MOUNTED ON 6' EXTENSION AT 5'  
 FROM END OF MAST ARM  
 LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT) <sup>△</sup>  
 1-TYPE R10-X12 SIGN ADJACENT TO HEAD 5-2  
 2-SIGNS (CARVER 61 DBL)(CHASKA BLVD) (SEE SIGN DETAILS)  
 3" CONDUIT TO HH 6:  
 4-6/C 14  
 5-4/C 14  
 \* 1-3/C 14 (EVP)  
 1-3/C 14 (LUM)  
 1-3/C 18 (VID)  
 \* 1-3/C 20 (EVP)  
 1-1/C 6 INS. GR.

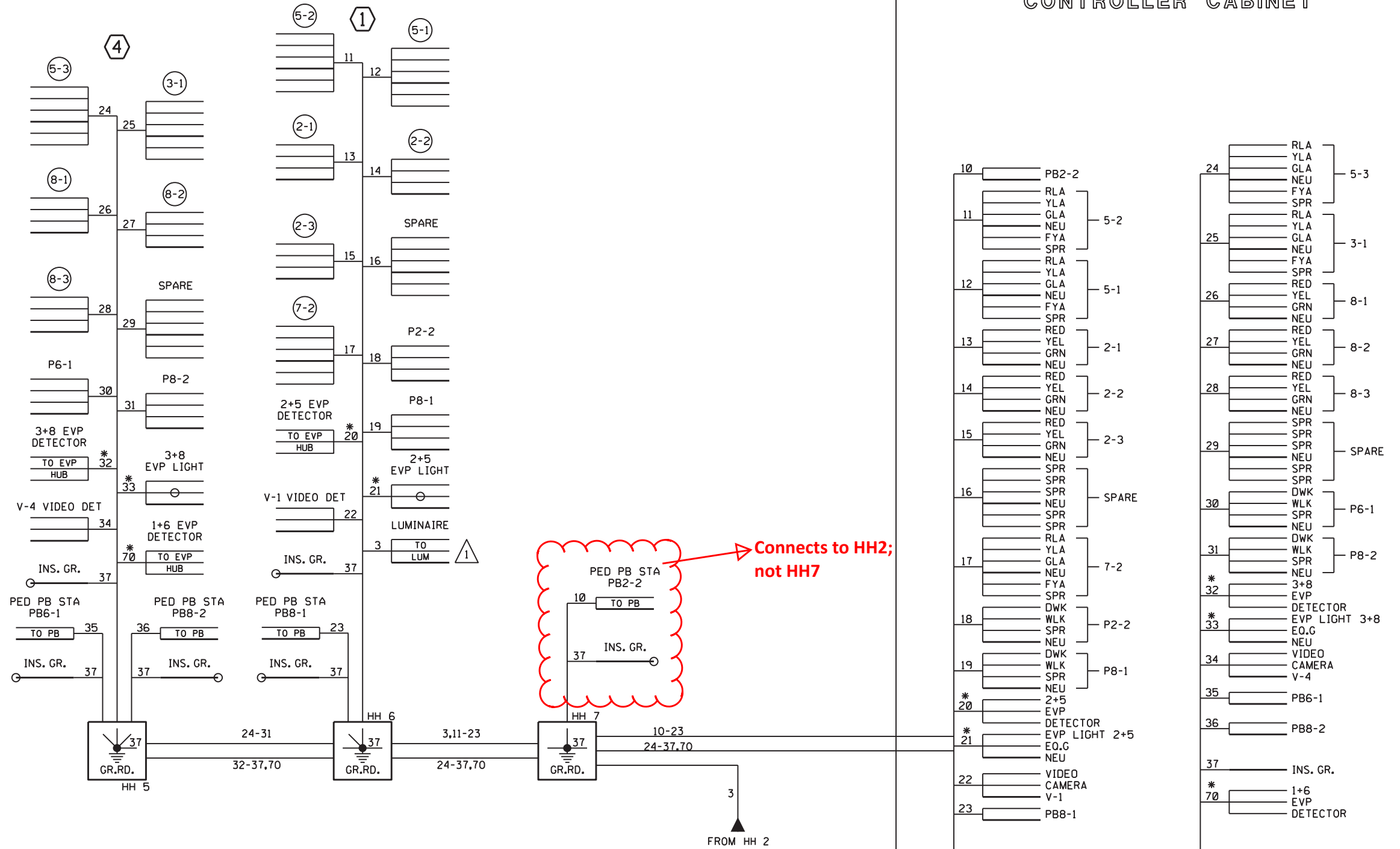
Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)  
 SERVICE CABINET (SSB) NO BATTERY BACKUP SYSTEM OR BATTERIES  
 CONTROLLER AND CABINET (STATE FURNISHED)  
 3" CONDUIT TO HH2: 3" CONDUIT TO HH7 TO HH6:  
 3-6/C 14 4-6/C 14  
 5-4/C 14 5-4/C 14  
 \* 1-3/C 14 (EVP) \* 1-3/C 14 (EVP)  
 1-3/C 18 (VID) 1-3/C 18 (VID)  
 \* 1-3/C 20 (EVP) \* 2-3/C 20 (EVP)  
 2-2/C 14 2-2/C 14  
 1-1/C 6 INS. GR. 1-1/C 6 INS. GR.  
 3" CONDUIT TO HH2: 3" CONDUIT TO HH7 TO HH6:  
 3-6/C 14 3-6/C 14  
 5-4/C 14 5-4/C 14  
 \* 1-3/C 14 (EVP) \* 1-3/C 14 (EVP)  
 1-3/C 18 (VID) 1-3/C 18 (VID)  
 \* 2-3/C 20 (EVP) \* 1-3/C 20 (EVP)  
 2-2/C 14 2-2/C 14  
 3" CONDUIT TO HH2: 3" CONDUIT TO HH7: (EMPTY)  
 1-CAT-5E TRA MGMT CAM  
 GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD  
 1-3" CONDUIT STUBBED OUT (CAPPED ON BOTH ENDS)  
 1-1/2" CONDUIT TO TMS VAULT:  
 1-FO PIGTAIL (6-SM)(BY OTHERS, SEE TMS PLAN)  
 CONTROLLER CABINET TO SERVICE CABINET:  
 2" CONDUIT  
 3-1/C 6  
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):  
 2" CONDUIT  
 1-6PR 19  
 SERVICE CABINET TO HH1 TO GROUND MOUNTED TRANSFORMER  
 2" CONDUIT  
 3-1/C 2  
 SERVICE CABINET TO HH2:  
 2" CONDUIT  
 3-3/C 14 (LUM)  
 HH2 TO HH7:  
 2" CONDUIT  
 1-3/C 14 (LUM)  
 SERVICE CABINET TO EXTERNAL GR.RD.:  
 1" CONDUIT  
 1-1/C 6 INS. GR.  
 (SEE EQUIPMENT PAD LAYOUT)

Ⓑ INP SOP  
 CITY OF CHASKA ELECTRIC  
 DISCONNECT SWITCH  
 1 1/4" RSC RISER WITH WHEATHERHEAD  
 ABOVE DISCONNECT SWITCH  
 3-1/C 2  
 2 NMC RISER AND CONDUIT  
 BELOW DISCONNECT TO HH 1  
 3-1/C 2  
 HH1 TO SERVICE CABINET  
 2" CONDUIT  
 3-1/C 2

T.H. 41 (CHESTNUT ST) AT C.S.A.H. 61 (CHASKA BLVD)  
 SIGNAL SYSTEM C - INTERSECTION NOTES

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CONTROLLER CABINET



- NOTES:
1. SPLICES ONLY ALLOWED IN LOOP DETECTOR CIRCUITS.
  2. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITHOUT BATTERY BACKUP SYSTEM OR BATTERIES.
  3. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
  4. ITEMS DENOTED WITH A \* ARE INCLUDED IN THE PAYMENT FOR THE EVP SYSTEM PAY ITEM.
  5. ITEMS DENOTED WITH AN \*\* ARE DETAILED AND PAID FOR IN THE TMS PLAN.
  6. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
  7. FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.

TO TMS VAULT  
1-FO CABLE (6-SM)  
(BY OTHERS) ← \*\* 90

← \*\* 90 FIBER OPTIC PIGTAIL

T.H. 41 (CHESTNUT ST) AT C.S.A.H. 61 (CHASKA BLVD)  
SIGNAL SYSTEM C - FIELD WIRING DIAGRAM (1 OF 2)

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5/6/2022

SYSTEM ID: 4344815  
TE: 49108

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www.bolton-menk.com

REV.	BY	DATE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Michael S. Larson*  
MICHAEL S. LARSON  
LIC. NO. 58850 DATE 03-02-2022

DESIGNED  
ABM  
DRAWN  
ABM  
CHECKED  
MSL

S.P. 1008-87 (TH 41), S.P. 196-010-017,  
S.P. 196-010-018, S.P. 196-020-014, S.P. 010-661-008  
T.H. 41 & C.S.A.H. 61 IMPROVEMENTS  
SIGNAL PLAN

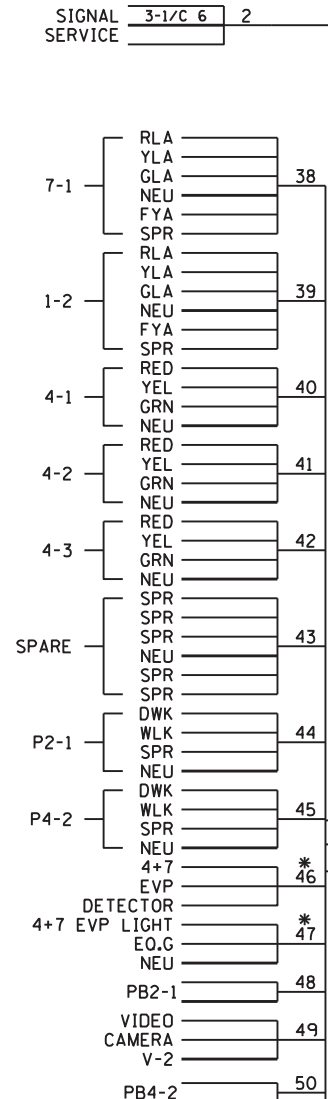
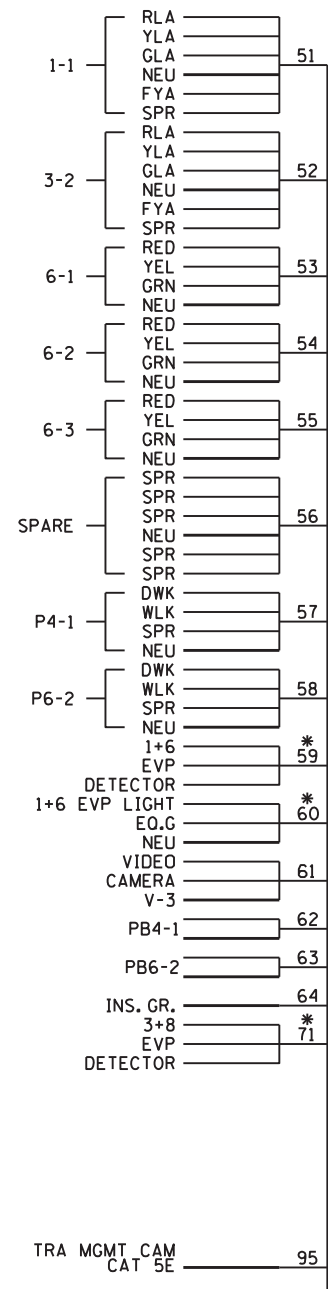
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# CONTROLLER CABINET

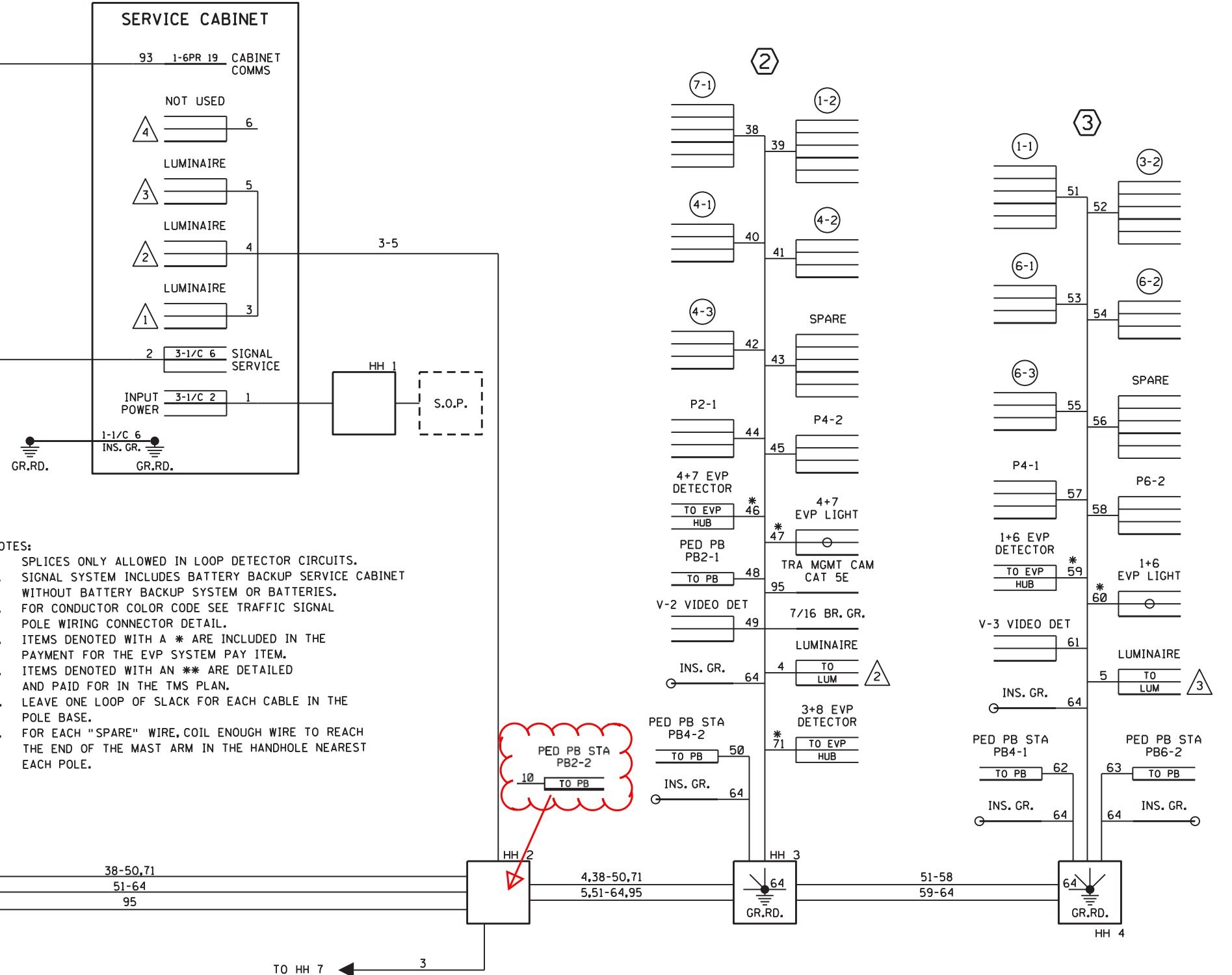
# SERVICE CABINET

CABINET COMMS 1-6PR 19 93

93 1-6PR 19 CABINET COMMS



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  5. ITEMS DENOTED WITH AN \*\* ARE DETAILED AND PAID FOR IN THE TMS PLAN.
  6. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
  7. FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.



T.H. 41 (CHESTNUT ST) AT C.S.A.H. 61 (CHASKA BLVD)  
SIGNAL SYSTEM C - FIELD WIRING DIAGRAM (2 OF 2)

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5/6/2022

SYSTEM ID: 4344815  
TE: 49108

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*Michael S. Larson*  
MICHAEL S. LARSON  
LIC. NO. 58850 DATE 03-02-2022

DESIGNED ABM	S.P. 1008-87 (TH 41), S.P. 196-010-017,
DRAWN ABM	S.P. 196-010-018, S.P. 196-020-014, S.P. 010-661-008
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SIGNAL PLAN	

SHEET  
320  
OF  
359

