

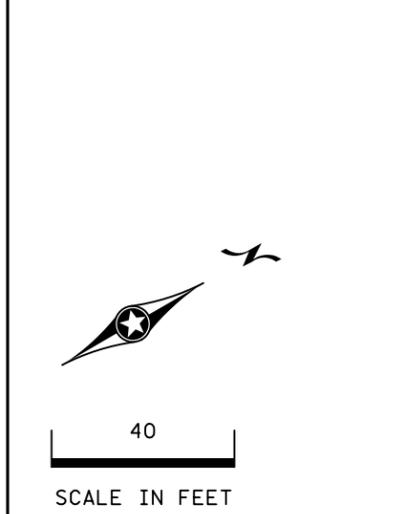
SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	●	●	●	●
3-1, 3-2	←	←	←	←
4-1, 4-2	●	●	●	●
5-1, 5-2	←	←	←	←
6-1, 6-2, 6-3	●	●	●	●
7-1, 7-2	←	←	←	←
8-1, 8-2	●	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED  
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS AND SHALL HAVE 2" YELLOW REFLECTIVE BORDERS ON ALL SIDES OF BACKGROUND SHIELD  
 -FYA DENOTES FLASHING YELLOW ARROW

1 SIGNAL HEAD, EVP, DETECTOR, AND PEDESTRIAN DEVICES RENUMBERED PER PHASING CHANGE.

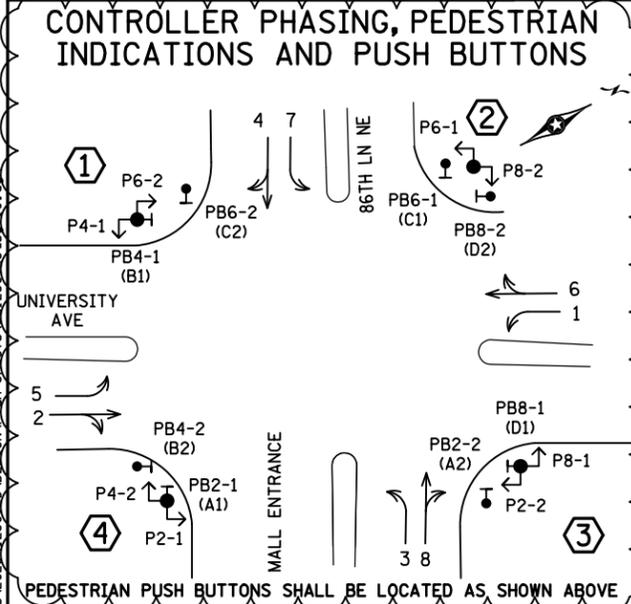
LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1	3-6x6	20,35,50
D1-2, D5-2	6x6	5
D2-1, D2-2, D6-1, D6-2	6x6	180
D3-1, D7-1	3-6x6	20,35,50
D3-2, D7-2	6x6	5
D4-1, D8-1	6x6	20
D4-2, D8-2	6x6	5

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



**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASE(S) 3 & 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY, AND PHASE(S) 1 & 5 BEING PROTECTED LEFT TURN PHASES. PHASES 1 & 5 ARE OUTFITTED FOR FUTURE FYA OPERATION.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.



3" CONDUIT  
 3-6/C 14  
 5-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 6-2/C 14  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

3" CONDUIT  
 3-6/C 14  
 4-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 6-2/C 14  
 1-3/C 14 (LUM)

PED PB STATION  
 1-APS PB AND SIGN (RT ARROW) (PB6-2)  
 EXTEND INTO HH 1:  
 1" CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

3" CONDUIT  
 3-6/C 14  
 4-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

3" CONDUIT  
 6-2/C 14

PED PB STATION  
 1-APS PB AND SIGN (RT ARROW) (PB8-2)  
 EXTEND INTO HH 3:  
 1" CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

PED PB STATION  
 1-APS PB AND SIGN (RT ARROW) (PB4-2)  
 EXTEND INTO HH 7:  
 1" CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

PED PB STATION  
 1-APS PB AND SIGN (RT ARROW) (PB2-2)  
 EXTEND INTO HH 6:  
 1" CONDUIT  
 1-2/C 14  
 1-1/C 6 INS. GR.

3" CONDUIT  
 3-6/C 14  
 5-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 6-2/C 14  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

3" CONDUIT  
 3-6/C 14  
 4-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 4-2/C 14  
 1-3/C 14 (LUM)

3" CONDUIT  
 3-6/C 14  
 5-4/C 14  
 \*1-3/C 14  
 \*1-3/C 20  
 6-2/C 14  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

**NOTES:**

1. SEE THE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
2. THE EXACT LOCATION OF THE HANDHOLES, LOOP DETECTORS, UNDERGROUND CONDUIT, AND THE EQUIPMENT PAD ARE DETERMINED IN THE FIELD. VERIFY THE LOCATIONS OF ALL SIGNAL COMPONENTS WITH ANOKA COUNTY PERSONNEL. CONDUITS UNDER ROADWAYS WILL REQUIRE BORING.
3. ALL SIGNAL MOUNTED SIGNS ARE INCLUDED IN PAYMENT WITH THE LUMP SUM SIGNAL SYSTEM PAY ITEM. SEE SIGNING DETAIL SHEET FOR SIGNAL MOUNTED SIGNS.
4. PAVEMENT MARKINGS ARE INCLUDED AS PART OF THE STRIPING PLAN.
5. CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK ARE INCLUDED WITH THE ADA PLAN AND ARE PAID FOR SEPARATELY.
6. USE PVC OR HDPE FOR NEW CONDUIT. CONDUIT SIZES ARE NOMINAL DIAMETER.
7. ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
8. SEE TRAFFIC CONTROL INTERCONNECT PLAN FOR INTERCONNECTION TO CSAH 10 SIGNAL SYSTEM.
9. REMOVAL OF THE EXISTING SIGNAL IS INCLUDED IN PAYMENT FOR THE REMOVE SIGNAL SYSTEM PAY ITEM. REFER TO THE "EXISTING SIGNAL PLAN" SHEETS FOR INPLACE SIGNAL SYSTEM COMPONENTS.
10. PTZ CAMERA AND VIDEO DETECTION CAMERAS, AND BRACKETING, MUST BE GROUNDED.
11. ITEMS DENOTED WITH \*\* ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.

NO	DATE	DWN	CKD	REVISIONS
1	06/27/24	CET	MPM	SIGNAL PHASING

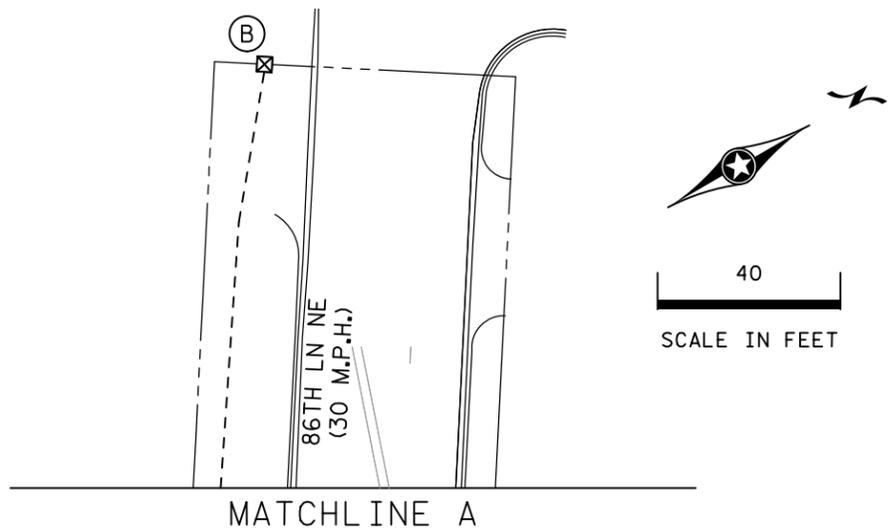


I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: MICHAEL P MCCURDY  
 SIGNATURE: *Michael P. McCurdy*  
 DATE: 03/20/24 LICENSE #: 45902

TRAFFIC CONTROL SIGNAL SYSTEM  
 S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063

S.A.P. 002-603-005 (CSAH 3/86TH LN NE)  
 SHEET NO. 56 OF 71 SHEETS



△ 1 SIGNAL HEAD, EVP, DETECTOR, AND PEDESTRAIN DEVICES RENUMBERED PER PHASING CHANGE.

- ①  
 X=500032.321 Y=134464.956  
 PA100 POLE FOUNDATION MODIFIED (14' DEPTH)  
 TYPE PA100-A-45-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG) (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID AND GROUND ROD)  
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)  
 1-PTZ VIDEO CAMERA (COUNTY PROVIDED)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (1-1)  
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23' (6-3, 6-2)  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (3-2) (6-1)  
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P4-1, P6-2)  
 \* 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6) (COUNTY PROVIDED)  
 1-APS PB AND SIGN (LT ARROW) (PB4-1) AND POLE MOUNTING ADAPTOR  
 1-GUIDE SIGN (D-1) (SEE SIGN DETAILS)  
 3" CONDUIT INTO HH 1:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 1-3/C 14 (LUM)  
 1-COM CABLE (CAT5E) (PTZ)  
 1-7/16" GROUNDING BRAID (LIGHTNING ROD TO GROUND ROD)  
 1-1/C 6 INS. GR.

- ②  
 X=500057.225 Y=134527.623  
 PA85 POLE FOUNDATION MODIFIED (12' DEPTH)  
 TYPE PA85-A-25-D30-9  
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (3-1)  
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11' (8-2)  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (5-2) (8-1)  
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P6-1, P8-2)  
 \* 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8) (COUNTY PROVIDED)  
 1-R10-X12 SIGN  
 2-GUIDE SIGNS (D-2 AND D-3) (SEE SIGN DETAILS)  
 3" CONDUIT INTO HH 2:  
 3-6/C 14  
 3-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.

- ③  
 X=500167.193 Y=134475.279  
 PA100 POLE FOUNDATION MODIFIED (14' DEPTH)  
 TYPE PA100-A-45-D30-9  
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (5-1)  
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 10' AND 21' (2-3, 2-2)  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (7-2) (2-1)  
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P8-1, P2-2)  
 \* 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5) (COUNTY PROVIDED)  
 1-APS PB AND SIGN (LT ARROW) (PB8-1) AND POLE MOUNTING ADAPTOR  
 1-GUIDE SIGN (D-1) (SEE SIGN DETAILS)  
 3" CONDUIT INTO HH 6:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.
- ④  
 X=500138.092 Y=134397.262  
 PA90 POLE FOUNDATION MODIFIED (14' DEPTH)  
 TYPE PA90-A-35-D30-9  
 1-LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)  
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0' (7-1)  
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11' (4-2)  
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG (1-2) (4-1)  
 2-ANGLE MOUNT C. D. PED HEADS AT 90 AND 180 DEG (P2-1, P4-2)  
 \* 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7) (COUNTY PROVIDED)  
 1-APS PB AND SIGN (LT ARROW) (PB2-1) AND POLE MOUNTING ADAPTOR  
 1-R10-X12 SIGN  
 2-GUIDE SIGNS (D-2 AND D-3) (SEE SIGN DETAILS)  
 3" CONDUIT INTO HH 7:  
 3-6/C 14  
 4-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 1-3/C 14 (LUM)  
 1-1/C 6 INS. GR.
- ⑤  
 EQUIPMENT PAD (SEE DETAIL SHEET)  
 SERVICE CABINET WITH BATTERY BACKUP (SEE DETAIL SHEET)  
 CONTROLLER AND CABINET (COUNTY PROVIDED)  
 3" CONDUIT TO HH 1:  
 3-6/C 14  
 5-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 6-2/C 14  
 1- CAT5E TRA MGMT CAM  
 1-1/C INS. GR.  
 3" CONDUIT TO HH 10:  
 3-6/C 14  
 4-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 6-2/C 14  
 3" CONDUIT TO HH 10:  
 3-6/C 14  
 4-4/C 14  
 \* 1-3/C 14  
 \* 1-3/C 20  
 6-2/C 14  
 GROUND WIRE AND GROUND ROD - MIN 8' STUBBED OUT FROM PAD  
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)  
 \*\* 1.5" CONDUIT TO TMS VAULT:  
 \*\* 1-FO CABLE (12SM)  
 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 GROUND MOUNTED TRANSFORMER:  
 2" CONDUIT  
 3-1/C 2  
 SERVICE CABINET TO HH 1:  
 2" CONDUIT  
 2-3/C 14 (LUM)  
 SERVICE CABINET TO HH 10:  
 2" CONDUIT  
 2-3/C 14 (LUM)  
 SERVICE CABINET TO EXTERNAL GR. RD.:  
 1" CONDUIT  
 1-1/C 6 INS. GR.  
 (SEE EQUIPMENT PAD LAYOUT)

- ⑥  
 SOP TRANSFORMER (CONNEXUS)  
 INPLACE CONDUIT AND  
 CABLE TO SERVICE CABINET  
 (COORDINATE NEW HOOK-UP)

NOTES:  
 1. ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.  
 2. ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.  
 3. MODIFIED FOUNDATION DEPTHS DETERMINED VIA GEOTECHNICAL ANALYSIS. SEE SPECIAL PROVISIONS.

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NO	DATE	DWN	CKD	REVISIONS
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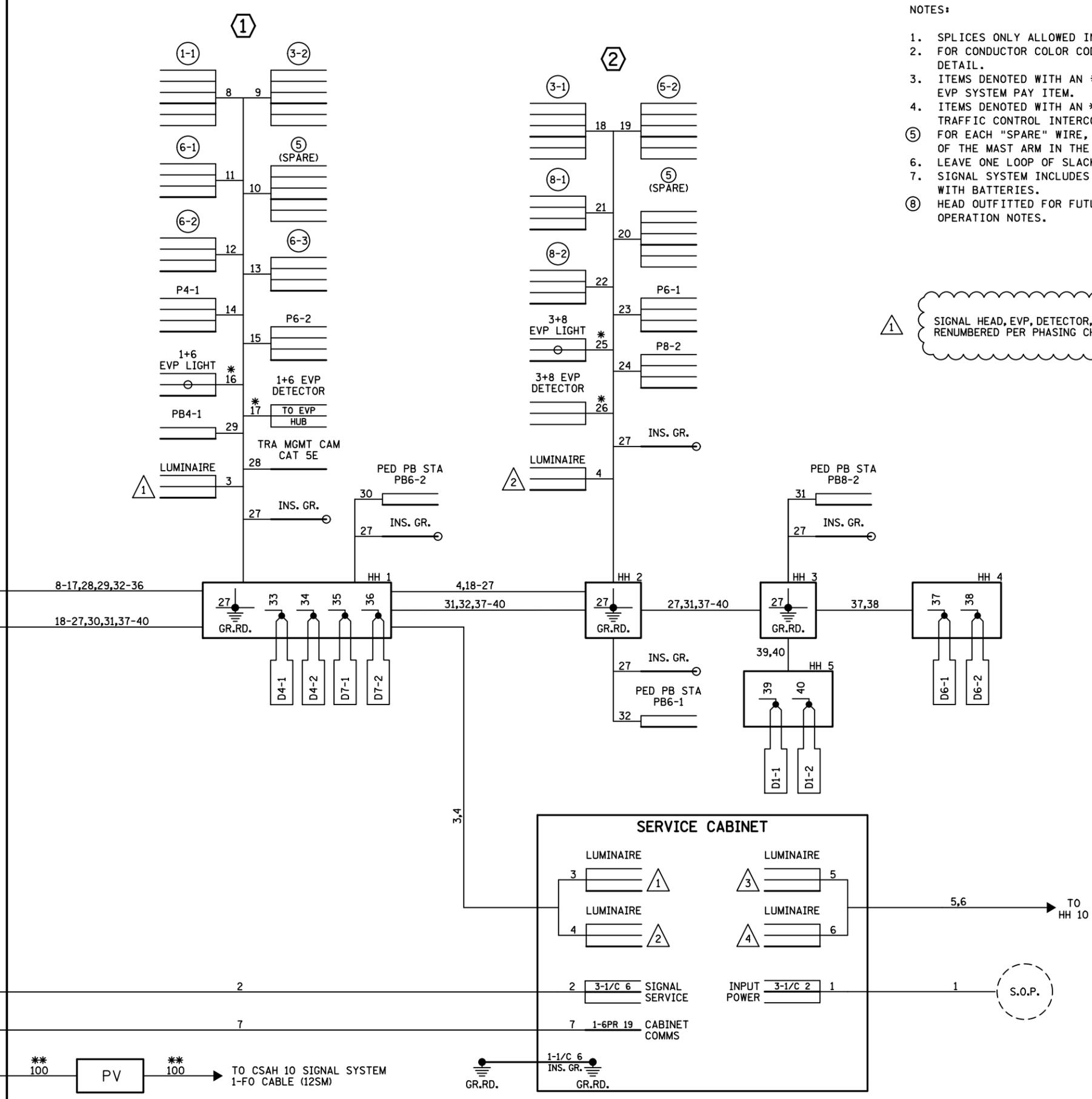
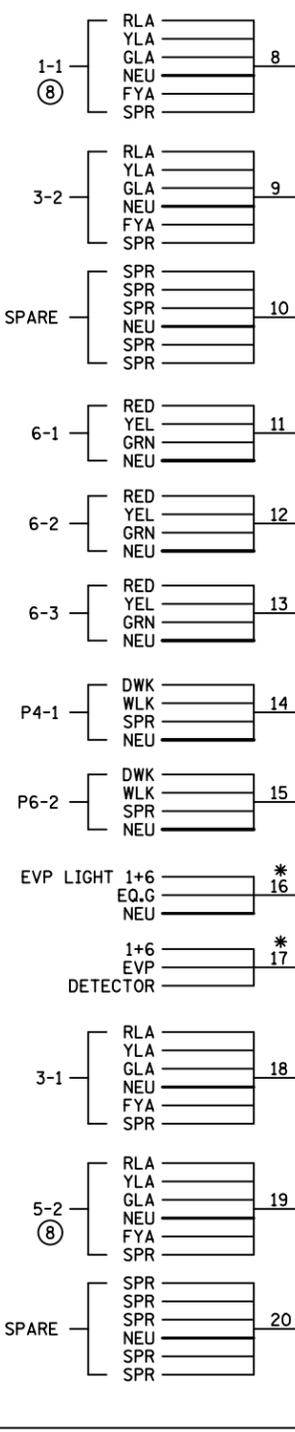
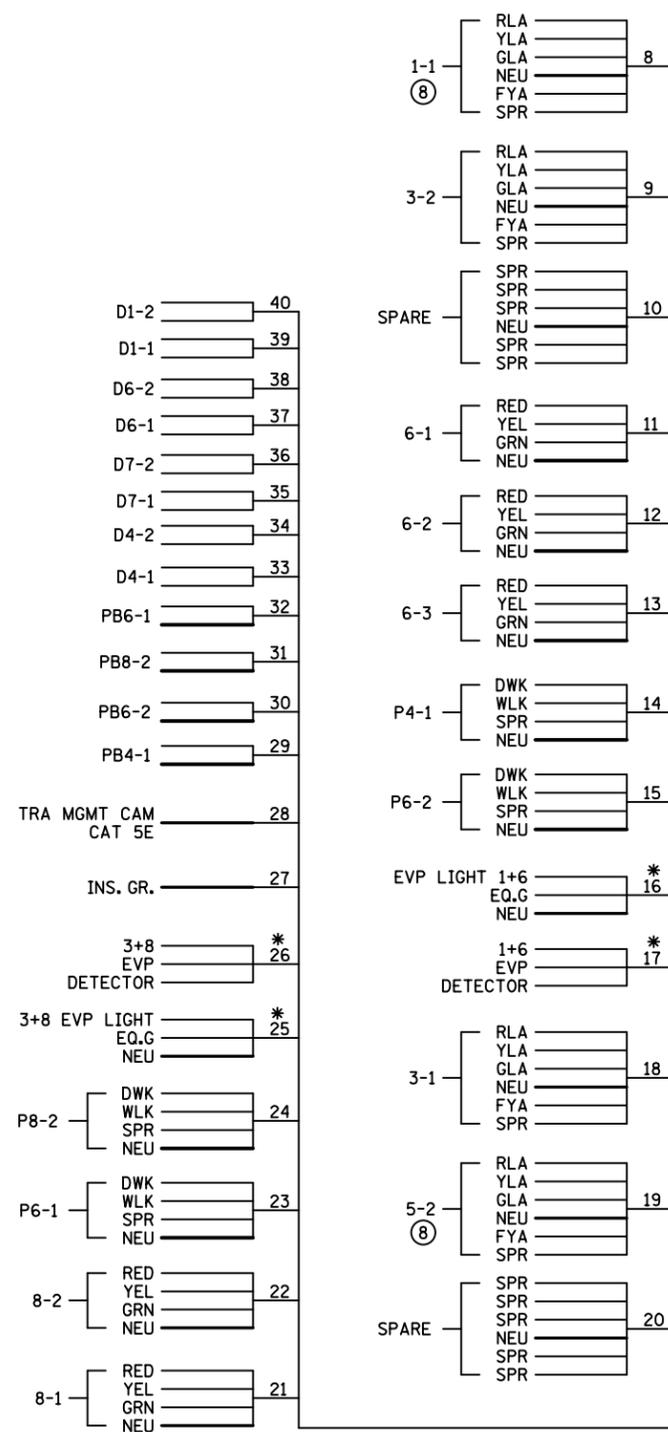
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PRINT NAME: MICHAEL P. MCCURDY  
 SIGNATURE: *Michael P. McCurdy*  
 DATE: 03/20/24 LICENSE #: 45902

TRAFFIC CONTROL SIGNAL SYSTEM  
 S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063

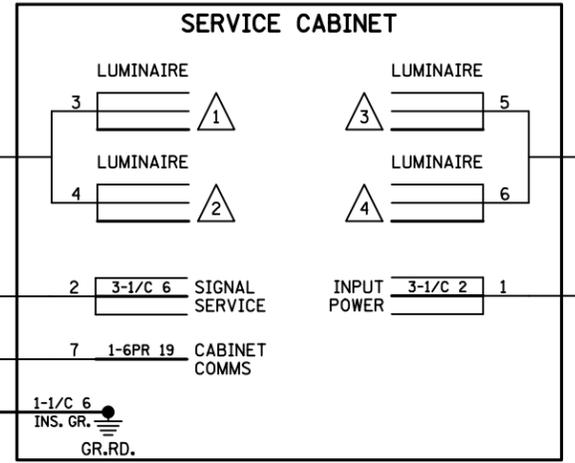
S.A.P. 002-603-005 (CSAH 3/86TH LN NE)  
 SHEET NO. 57 OF 71 SHEETS

# CONTROLLER CABINET



- NOTES:
1. SPLICES ONLY ALLOWED IN LOOP DETECTOR CIRCUITS.
  2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL COLOR CODE DETAIL.
  3. ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
  4. ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.
  5. FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.
  6. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
  7. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERIES.
  8. HEAD OUTFITTED FOR FUTURE FYA OPERATION. SEE SIGNAL OPERATION NOTES.

1 SIGNAL HEAD, EVP, DETECTOR, AND PEDESTRAIN DEVICES RENUMBERED PER PHASING CHANGE.



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NO	DATE	DWN	CKD	REVISIONS
1	06/27/24	CET	MPM	SIGNAL PHASING



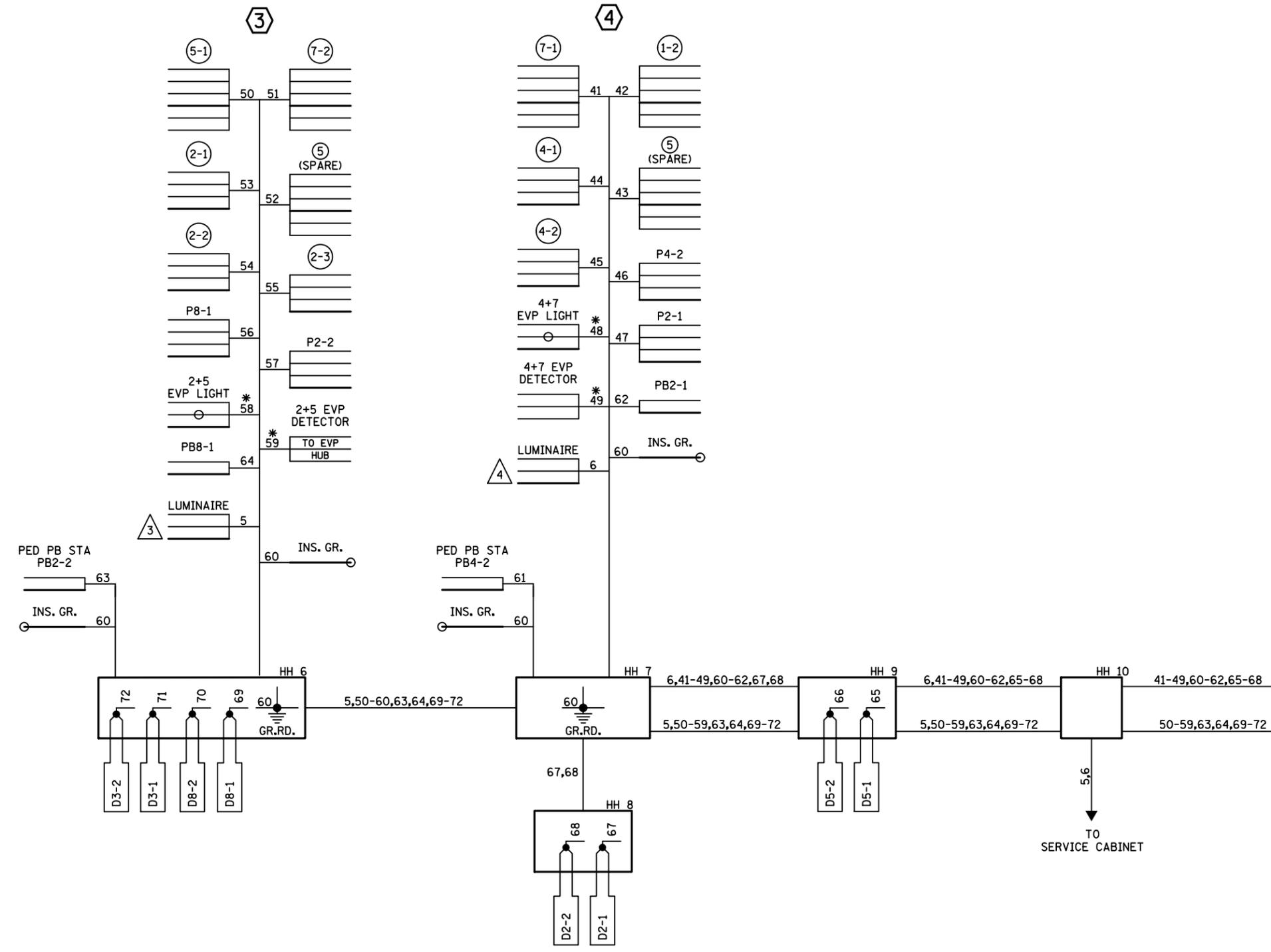
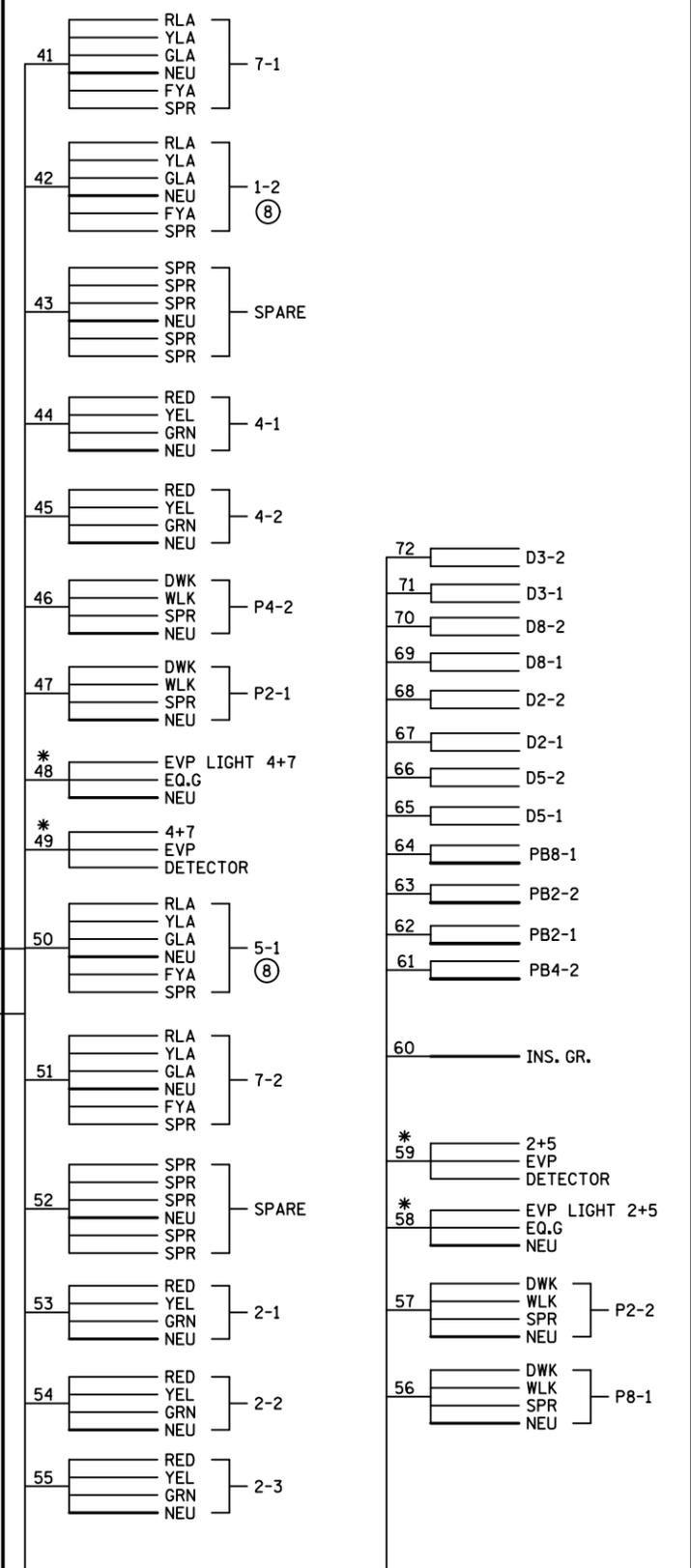
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TRAFFIC CONTROL SIGNAL SYSTEM  
 S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063

SHEET 1 OF 2  
 S.A.P. 002-603-005 (CSAH 3/86TH LN NE)  
 SHEET NO. 58 OF 71 SHEETS

CONTROLLER CABINET



1. SIGNAL HEAD, EVP, DETECTOR, AND PEDESTRAIN DEVICES RENUMBERED PER PHASING CHANGE.

- NOTES:
- SPLICES ONLY ALLOWED IN LOOP DETECTOR CIRCUITS.
  - FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL COLOR CODE DETAIL.
  - ITEMS DENOTED WITH AN \* ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
  - ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.
  - FOR EACH "SPARE" WIRE, COIL ENOUGH WIRE TO REACH THE END OF THE MAST ARM IN THE HANDHOLE NEAREST EACH POLE.
  - LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE POLE BASE.
  - SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERIES.
  - HEAD OUTFITTED FOR FUTURE FYA OPERATION. SEE SIGNAL OPERATION NOTES.

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NO	DATE	DWN	CKD	REVISIONS
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PRINT NAME: MICHAEL P MCCURDY  
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 DATE: 03/20/24 LICENSE #: 45902

TRAFFIC CONTROL SIGNAL SYSTEM  
 S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063



40  
SCALE IN FEET

CONTROLLER CABINET  
\*\*F&I PATCH PANEL & NETWORK SWITCH

\*\* 1.5" CONDUIT BORED  
1-FO CABLE (12SM)

1.5" CONDUIT  
1-FO CABLE (12SM)

3" CONDUIT  
1-FO CABLE (12SM)

PULL VAULT \*\*

\*\* PULL VAULT

☉ CSAH 3 SB

\*\* 1.5" CONDUIT BORED  
1-FO CABLE (12SM)

\*\* 1.5" CONDUIT BORED  
1-FO CABLE (12SM)

S.B. CSAH 3 (UNIVERSITY AVENUE)  
(35 M.P.H.)

☉ CSAH 3 NB

MATCHLINE  
CSAH 3 NB 20+00

NOTES:

1. THE LOCATION OF PULL VAULTS AND CONDUITS SHOWN IN THE PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE COORDINATED WITH ALL UTILITY FACILITIES IN SIDEWALK AND ROADWAY AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.
2. ALL ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. ITEMS DENOTED WITH \*\* ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.
4. CONTRACTOR SHALL TERMINATE FIBER OPTIC CABLE WITHIN TRAFFIC SIGNAL CABINETS IN THE CONTRACTOR PROVIDED TERMINATION PANEL. SEE SPECIAL PROVISIONS.
5. DIRECTIONAL BORE INTERCONNECT CONDUIT UNDER ALL HARD SURFACES LIKE SIDEWALKS, ROADS, AND DRIVEWAYS.

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NO	DATE	DWN	CKD	REVISIONS

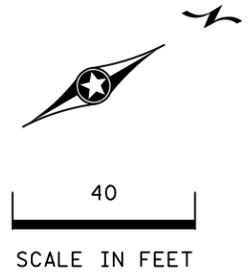


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PRINT NAME: MICHAEL P MCCURDY  
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TRAFFIC CONTROL INTERCONNECT  
S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063

S.A.P. 002-603-005 (CSAH 3/86TH LN NE)  
SHEET NO. 70 OF 71 SHEETS



MATCHLINE  
CSAH 3 NB 20+00

\*\*1.5" CONDUIT BORED  
1-FO CABLE (12SM)

SERVICE DR  
(30 M.P.H.)

\*\*1.5" CONDUIT  
1-FO CABLE (12SM)

\*\*1.5" CONDUIT BORED  
1-FO CABLE (12SM)

1.5" CONDUIT \*\*  
1-FO CABLE (12SM)

E.B. CSAH 10  
(50 M.P.H.)

W.B. CSAH 10  
(50 M.P.H.)

EXISTING CONTROLLER CABINET WITH  
\*\*NETWORK SWITCH  
\*\*F&I PATCH PANEL  
UTILIZE INPACE 3" RSC STUBOUT FOR  
INTERCONNECT CONDUIT ENTRANCE

\*\*PULL VAULT

UNIVERSITY AVENUE  
(35 M.P.H.)

\*\*PULL VAULT

☉ CSAH 3 SB

☉ CSAH 3 NB

E.B. CSAH 10  
(50 M.P.H.)

W.B. CSAH 10  
(50 M.P.H.)

NOTES:

1. THE LOCATION OF PULL VAULTS AND CONDUITS SHOWN IN THE PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE COORDINATED WITH ALL UTILITY FACILITIES IN SIDEWALK AND ROADWAY AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.
2. ALL ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. ITEMS DENOTED WITH \*\* ARE INCLUDED IN THE PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECT PAY ITEM.
4. CONTRACTOR SHALL TERMINATE FIBER OPTIC CABLE WITHIN TRAFFIC SIGNAL CABINETS IN THE CONTRACTOR PROVIDED TERMINATION PANEL. SEE SPECIAL PROVISIONS.
5. DIRECTIONAL BORE INTERCONNECT CONDUIT UNDER ALL HARD SURFACES LIKE SIDEWALKS, ROADS, AND DRIVEWAYS.

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NO	DATE	DWN	CKD	REVISIONS



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TRAFFIC CONTROL INTERCONNECT  
S.A.P. 002-603-005 / S.A.P. 106-020-042 / S.A.P. 114-020-063

S.A.P. 002-603-005 (CSAH 3/86TH LN NE)  
SHEET NO. 71 OF 71 SHEETS