

### LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	37 & 8
D2-1, D2-2	6x6	500
D3-1, D3-2	6x6	32 & 2
D4-1, D4-2	6x6	250
D4-3, D4-4, D4-5	2-6x6	-6 & 9
D5-1, D5-2	2-6x6	3 & 18
D5-3, D5-4	6x6	15
D6-1, D6-2	6x6	500
D7-1, 7-2	2-6x6	-4 & 26
D8-1, D8-2	6x6	250
D8-3, D8-4	6x6	2 & 17

-ALL LOOP DETECTORS ARE PVC  
-LOCATION: DISTANCE FROM  
CROSSWALK/STOP BAR IN FEET

### SIGNAL HEAD PHASING

HEADS	HEADS
4-3 & 4-4	8-3 & 8-4
(R)	(R)
(Y)	(Y)
(G)	(G)
(Y)	(Y)
(G)	(G)

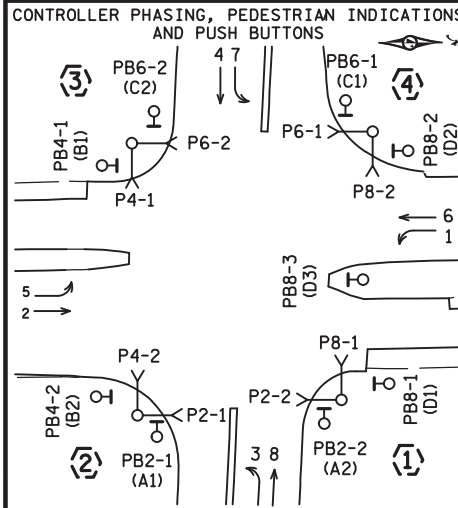
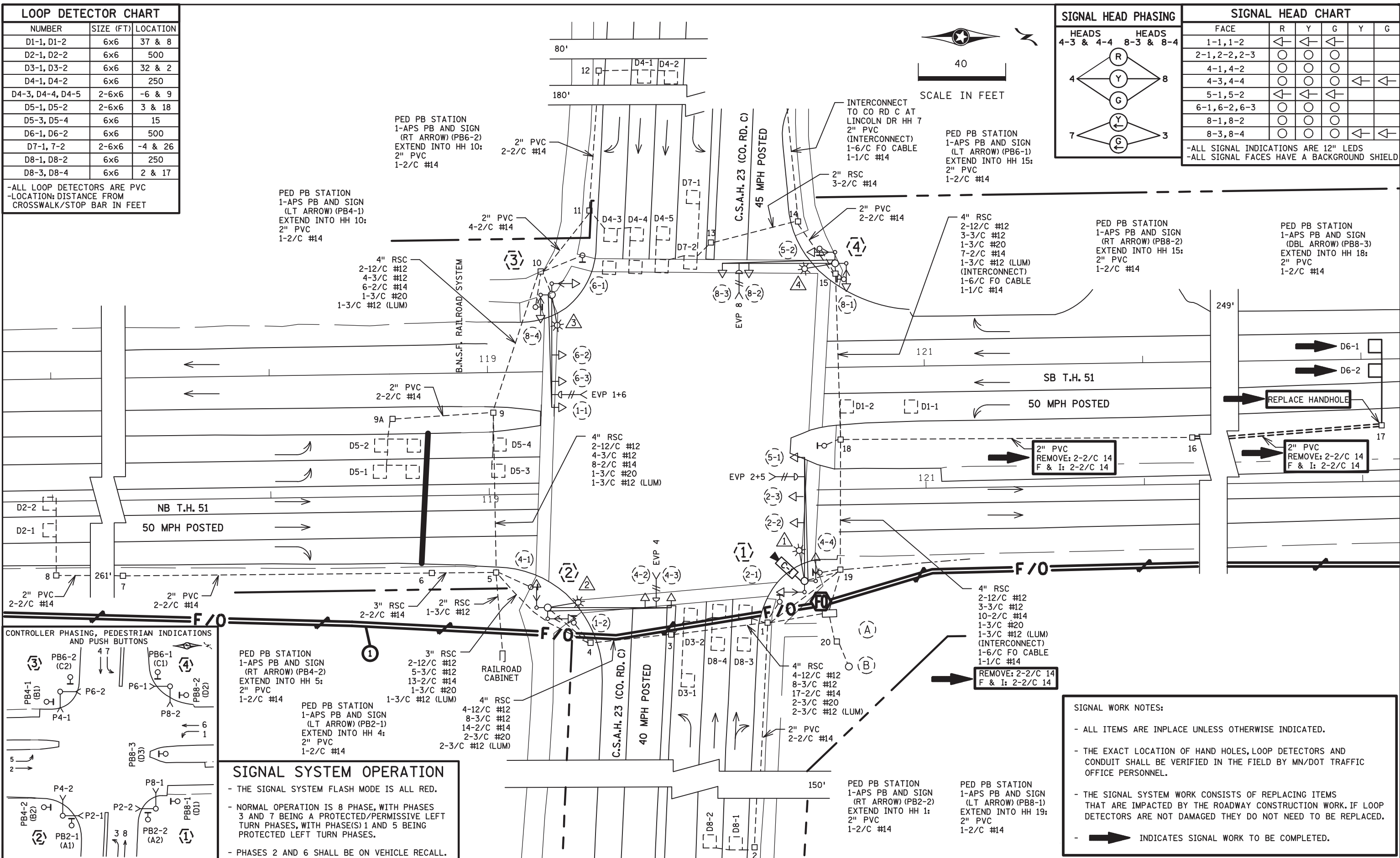
### SIGNAL HEAD CHART

FACE	R	Y	G	Y	G
1-1, 1-2	←	←	←		
2-1, 2-2, 2-3	○	○	○		
4-1, 4-2	○	○	○		
4-3, 4-4	○	○	○	←	←
5-1, 5-2	←	←	←		
6-1, 6-2, 6-3	○	○	○		
8-1, 8-2	○	○	○		
8-3, 8-4	○	○	○	←	←

-ALL SIGNAL INDICATIONS ARE 12" LEDS  
-ALL SIGNAL FACES HAVE A BACKGROUND SHIELD

PLOTTED/REVISED: I-DEC-2021

DISTRICT #: Metro  
PLOT NAME: T20741\_sgl  
PATH & FILENAME: Projects\DM\_POS\05\000001\Traffic\Signals\8.37\_(23)



### SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 3 AND 7 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASES, WITH PHASE(S) 1 AND 5 BEING PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

### SIGNAL WORK NOTES:

- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- THE EXACT LOCATION OF HAND HOLES, LOOP DETECTORS AND CONDUIT SHALL BE VERIFIED IN THE FIELD BY MN/DOT TRAFFIC OFFICE PERSONNEL.
- THE SIGNAL SYSTEM WORK CONSISTS OF REPLACING ITEMS THAT ARE IMPACTED BY THE ROADWAY CONSTRUCTION WORK. IF LOOP DETECTORS ARE NOT DAMAGED THEY DO NOT NEED TO BE REPLACED.
- INDICATES SIGNAL WORK TO BE COMPLETED.

BY	DATE	REVISIONS	SYSTEM ID: 1735345 T.E.	METER ADDRESS: 2642 SNELLING AVE N	OLD SYSTEM ID: 20741 T.E.	INTERSECTION LAYOUT TH 51 (SNELLING AVE) AT CSAH 23 (CO RD C) IN ROSEVILLE, RAMSEY COUNTY	CERTIFIED BY: <i>Gregory Ken</i> LICENSED PROFESSIONAL ENGINEER	LIC. NO. 26829	DATE: 12-1-2021	DRAWN BY: JAR	CKD BY: GAK	DATE: 5-19-21
						STATE PROJ. NO. 6216-141 (T.H.51)			SHEET NO. SS3 OF SS5 SHEETS			

DISTRICT #: Metro  
 PLOT NAME: T20741\_sgl  
 PATH & FILENAME: Projects\DM\_POS\05\000001Traffic\Signals\8.37\_1231

PLOTTED/REVISED: 1-DEC-2021

(3)

PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
 LUMINAIRE - 250 W HPS  
 3-ONE WAY SIGNALS AT 0', 12' & 25'  
 2-TYPE 10B POLE AT 90 & 180 DEG  
 2-CD PED HEADS AT 90 & 180 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (6+1)  
 TYPE D SIGN  
 EXTEND INTO HH 10:  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

(4)

PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
 LUMINAIRE - 250 W HPS  
 2-ONE WAY SIGNALS AT 0' & 12'  
 2-TYPE 10B POLE AT 90 & 180 DEG  
 2-CD PED HEADS AT 90 & 180 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (8)  
 1-R10-12 SIGN (ADJACENT TO HEAD 8-3)  
 TYPE D SIGN  
 EXTEND INTO HH 14:  
 3" RSC  
 2-12/C #12  
 3-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

(A)

EQUIPMENT PAD  
 SERVICE CABINET  
 CONTROLLER & CABINET  
 4" RSC TO HH 19: 4" RSC TO HH 1:  
 4-12/C #12 4-12/C #12  
 9-3/C #12 8-3/C #12  
 2-3/C #20 2-3/C #20  
 11-2/C #14 21-2/C #14  
 1-6/C FO CABLE  
 1-1/C #14  
 1-3/C #14 (CAMERA POWER)  
 1-COM CABLE  
 1-COAXIAL CABLE  
  
 2" RSC TO CONTROLLER CABINET:  
 2-1/C #6  
 1-1/C # 6 INS. GR.  
  
 SERVICE CABINET TO HH 1:  
 2" RSC  
 4-3/C #12  
  
 SERVICE CABINET TO HH 20:  
 3-1/C #2  
  
 HH 1 TO HH 19:  
 2" PVC  
 2-3/C #12 (LUM)  
  
 CONTROLLER CABINET TO TMS VAULT:  
 1 1/2" PVC INSIDE 3" RSC STUB OUT  
 1-FIBER OPTIC CABLE (6SM)  
 WITH PRE-TERMINATED CABLE END

(2)

PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)  
 LUMINAIRE - 250 W HPS  
 2-ONE WAY SIGNALS AT 0' AND 12'  
 2-TYPE 10B POLE MOUNTED AT 90 & 180 DEG  
 2-CD PED HEADS AT 90 & 180 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (4)  
 1-R10-12 SIGN (ADJACENT TO HEAD 4-3)  
 TYPE D SIGN  
 EXTEND INTO HH 4:  
 3" RSC  
 2-12/C #12  
 3-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

(1)

PA100 POLE FOUNDATION  
 TYPE PA100-A-55-X6-350/CAM 400 (X AT 350 DEG)  
 LUMINAIRE-250W HPS  
 VIDEO CAMERA  
 3-ONE WAY SIGNALS AT 0', 18' & 30'  
 2-TYPE 10B POLE AT 90 & 180 DEG  
 2-CD PED HEADS AT 90 & 180 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (2+5)  
 TYPE D SIGN  
 EXTEND INTO HH 19:  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)  
 1-7/16" GROUNDING BRAID  
 TO GROUND ROD IN HH 19  
 1-3/C #14 (CAMERA POWER)  
 1-COM CABLE  
 1-COAXIAL CABLE

(B)

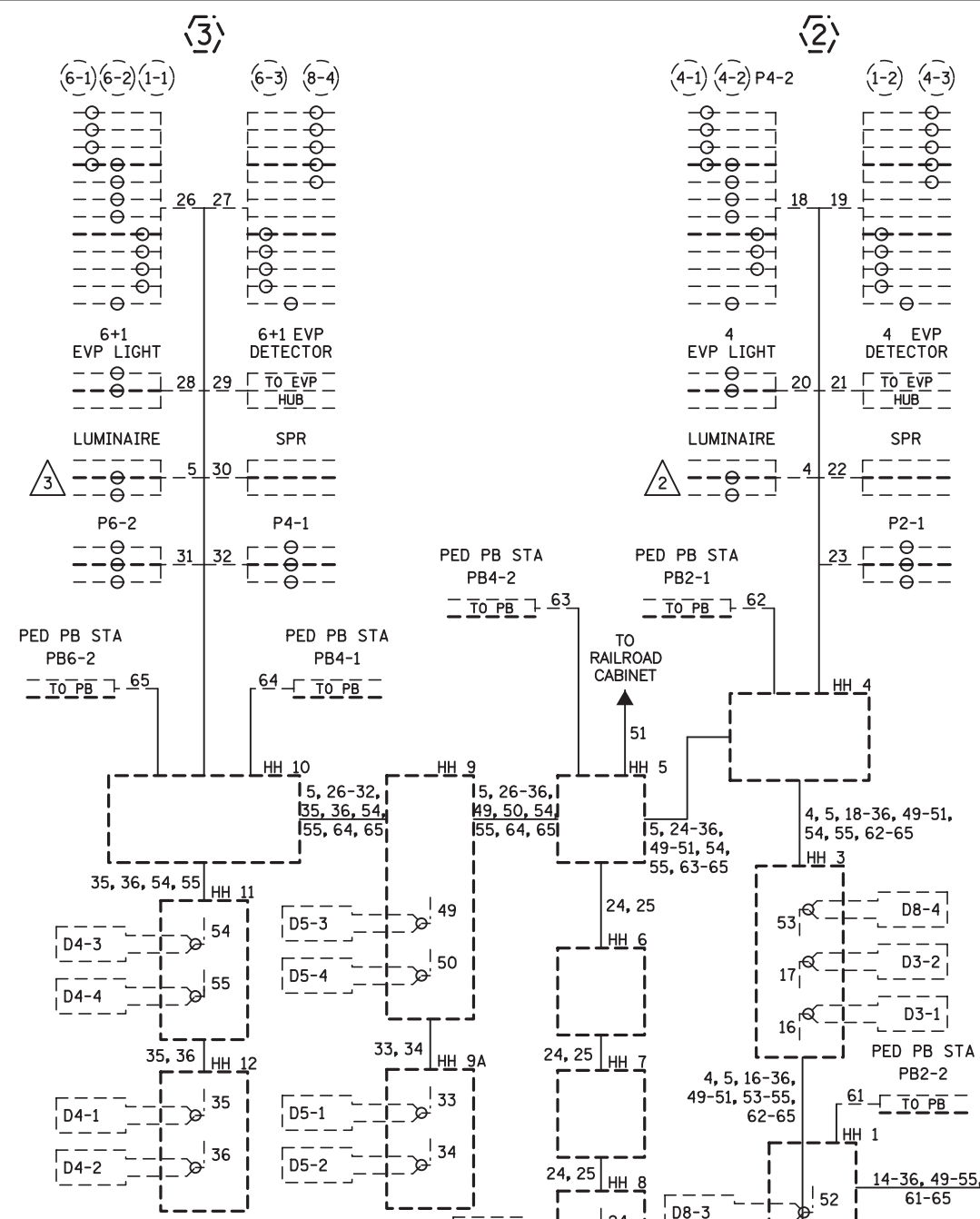
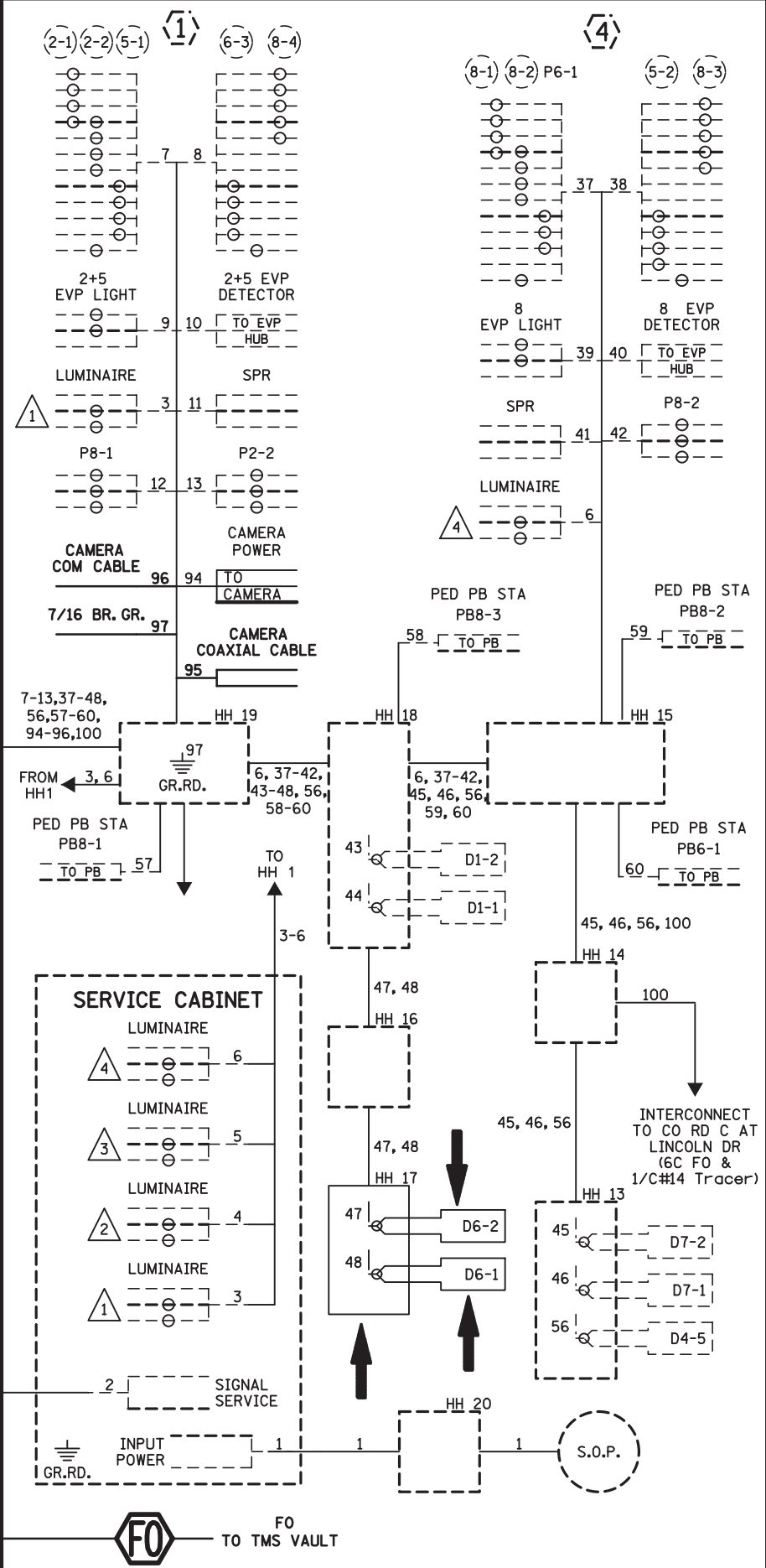
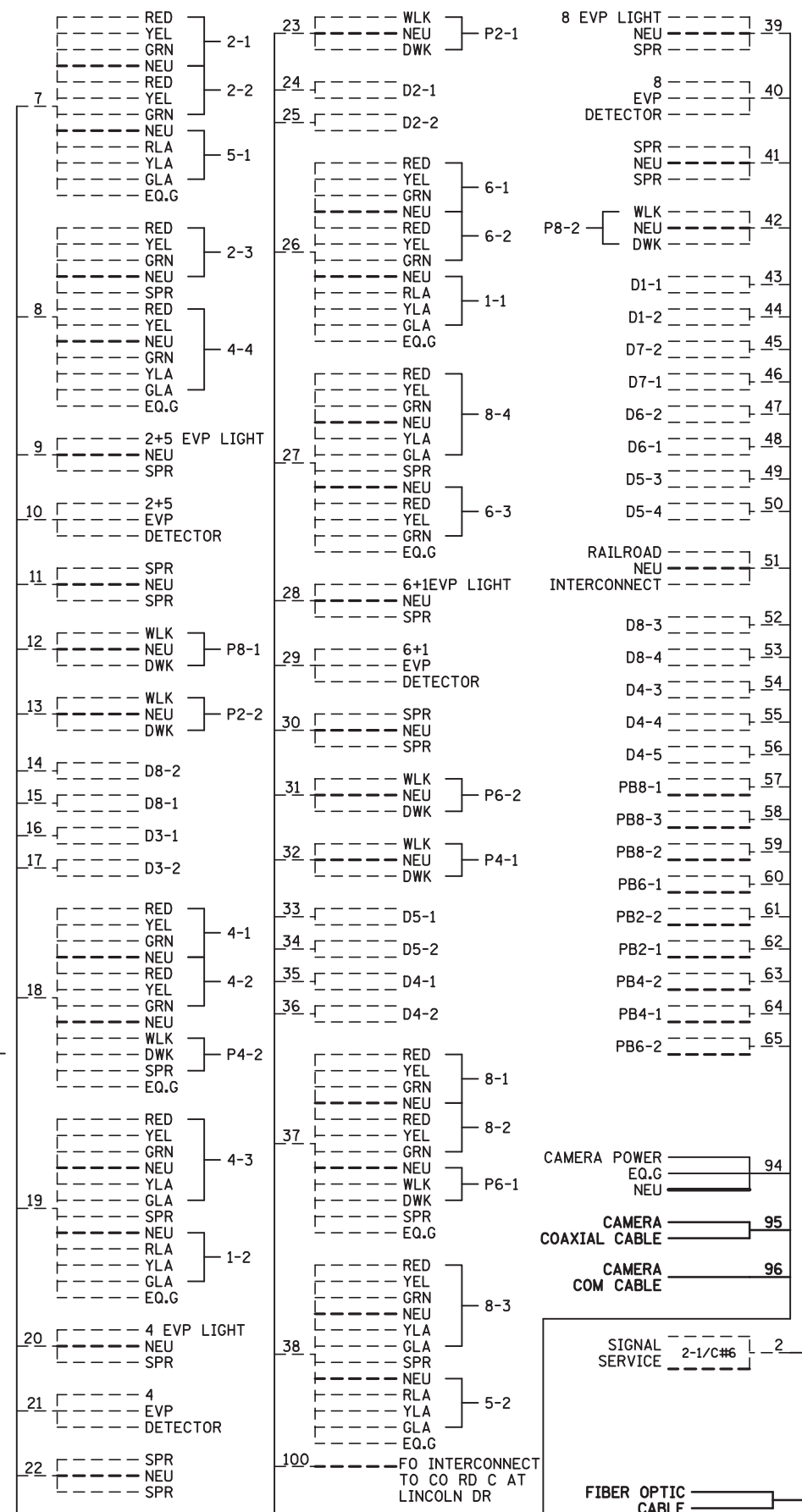
S.O.P. - WOOD POLE (XCEL ENERGY)  
 2" RSC RISER, WEATHERHEAD  
 & RSC TO HH 20  
 3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 1735345 T.E.	<b>POLE NOTES</b> TH 51 (SNELLING AVE) AT CSAH 23 (CO RD C) IN ROSEVILLE, RAMSEY COUNTY	CERTIFIED BY <u>Gregory Ken</u> L.I.C. NO. 26829 DATE: 12-1-2021	DRAWN BY: JAR CKD BY: GAK DATE: 5-19-21
			METER ADDRESS: 2642 SNELLING AVE N		STATE PROJ. NO. 6216-141 (T.H.51)	
			OLD SYSTEM ID: 20741 T.E.		SHEET NO. SS4 OF SS5 SHEETS	

PLOTTED/REVISED: 1-DEC-2021

DISTRICT #: Metro  
PLOT NAME: T20741\_sgl  
PATH & FILENAME: Projects\DM\_POS\05\00000\Traffic\Signals\8.37\_1(23)

### CONTROLLER CABINET



#### CONDUCTOR COLOR CODE (12 GAUGE)

TO SIGNAL CABINET		
3/C#20	R OR O	R
	WH OR YEL	O
	BLK OR BL	BL
2/C#14	BLK	R/BLK
	CLR OR WH	O/BLK
		BL/BLK
3-1/C#2	R	WH/BLK
	WH	BLK
	BLK	BLK/WH
3-1/C#6	WH	G/BLK
	G	G
2-1/C	BLK	R
	WH	WH
	G	BLK
1/C#6	G	BLK
		WH
6PR#19		

**NOTES:**  
1. LUMINAIRES ARE UNMETERED.

**SIGNAL WORK NOTES:**  
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.  
- INDICATES SIGNAL WORK TO BE COMPLETED.



PLOTTED/REVISED: \$\$\$\$DATE\$\$\$\$

DISTRICT #: \$@DISTRICT@\$  
IPLOT NAME: \$@IPLLOT\$NAME\$\$\$  
PATH & FILENAME: \$\$\$@PATH\$FILENAME\$\$\$\$

{3}

PA100 POLE FOUNDATION  
TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
LUMINAIRE - 250 W HPS  
3-ONE WAY SIGNALS AT 0', 12' & 25'  
2-TYPE 10B POLE AT 90 & 180 DEG  
2-CD PED HEADS AT 90 & 180 DEG  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (6+1)  
TYPE D SIGN  
EXTEND INTO HH 10:  
3" RSC  
2-12/C #12  
4-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)

{4}

PA100 POLE FOUNDATION  
TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
LUMINAIRE - 250 W HPS  
2-ONE WAY SIGNALS AT 0' & 12'  
2-TYPE 10B POLE AT 90 & 180 DEG  
2-CD PED HEADS AT 90 & 180 DEG  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (8)  
1-R10-12 SIGN (ADJACENT TO HEAD 8-3)  
TYPE D SIGN  
EXTEND INTO HH 14:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)

{A}

EQUIPMENT PAD  
SERVICE CABINET  
CONTROLLER & CABINET  
4" RSC TO HH 19: 4" RSC TO HH 1:  
4-12/C #12 4-12/C #12  
9-3/C #12 8-3/C #12  
2-3/C #20 2-3/C #20  
11-2/C #14 21-2/C #14  
1-6/C FO CABLE  
1-1/C #14  
1-3/C #14 (CAMERA POWER)  
1-COM CABLE  
1-COAXIAL CABLE

2" RSC TO CONTROLLER CABINET:  
2-1/C #6  
1-1/C # 6 INS. GR.

SERVICE CABINET TO HH 1:  
2" RSC  
4-3/C #12

SERVICE CABINET TO HH 20:  
3-1/C #2

HH 1 TO HH 19:  
2" PVC  
2-3/C #12 (LUM)

CONTROLLER CABINET TO TMS VAULT:  
1 1/2" PVC INSIDE 3" RSC STUB OUT  
1-FIBER OPTIC CABLE (6SM)  
WITH PRE-TERMINATED CABLE END

{2}

PA100 POLE FOUNDATION  
TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)  
LUMINAIRE - 250 W HPS  
2-ONE WAY SIGNALS AT 0' AND 12'  
2-TYPE 10B POLE MOUNTED AT 90 & 180 DEG  
2-CD PED HEADS AT 90 & 180 DEG  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (4)  
1-R10-12 SIGN (ADJACENT TO HEAD 4-3)  
TYPE D SIGN  
EXTEND INTO HH 4:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)

{1}

PA100 POLE FOUNDATION  
TYPE PA100-A-55-X6-350/CAM 400 (X AT 350 DEG)  
LUMINAIRE-250W HPS  
VIDEO CAMERA  
3-ONE WAY SIGNALS AT 0', 18' & 30'  
2-TYPE 10B POLE AT 90 & 180 DEG  
2-CD PED HEADS AT 90 & 180 DEG  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (2+5)  
TYPE D SIGN  
EXTEND INTO HH 19:  
3" RSC  
2-12/C #12  
4-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)  
1-7/16" GROUNDING BRAID  
TO GROUND ROD IN HH 19  
1-3/C #14 (CAMERA POWER)  
1-COM CABLE  
1-COAXIAL CABLE

{B}

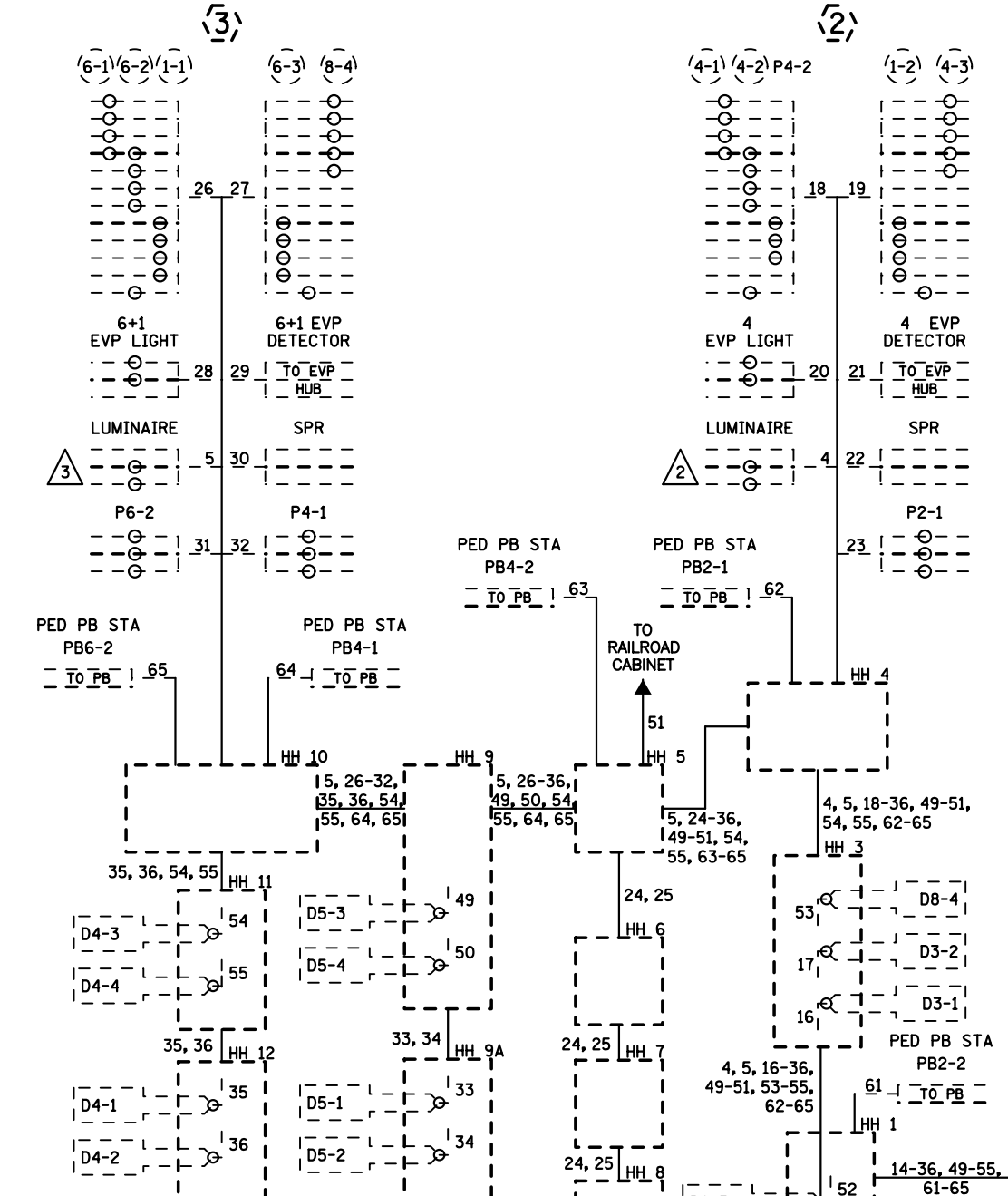
S.O.P. - WOOD POLE (XCEL ENERGY)  
2" RSC RISER, WEATHERHEAD  
& RSC TO HH 20  
3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 20741	T.E.	POLE NOTES TH 51 (SNELLING AVE) AT CSAH 23 (CO RD C) IN ROSEVILLE, RAMSEY COUNTY	S.A.P. NO.	DRAWN BY: SJK	CKD BY: EJA	DATE: 04-10-14	
EJA	02-05-16	AS-BUILT OF SP 6216-133 FIBER & CAMERA	METER ADDRESS: 2642 SNELLING AVE N			CERTIFIED BY _____	LIC. NO. _____	DATE: _____		
			MASTER ID: N/A	T.E.		STATE PROJ. NO.	(T.H.51)	SHEET NO.	2 OF	3 SHEETS

PLOTTED/REVISED: 2/5/2016

DISTRICT #: METRO  
PLOT NAME: wiring diagram  
PATH & FILENAME: IP\_PWP-d078162-NT20741\_sgl.dgn

# CONTROLLER CABINET

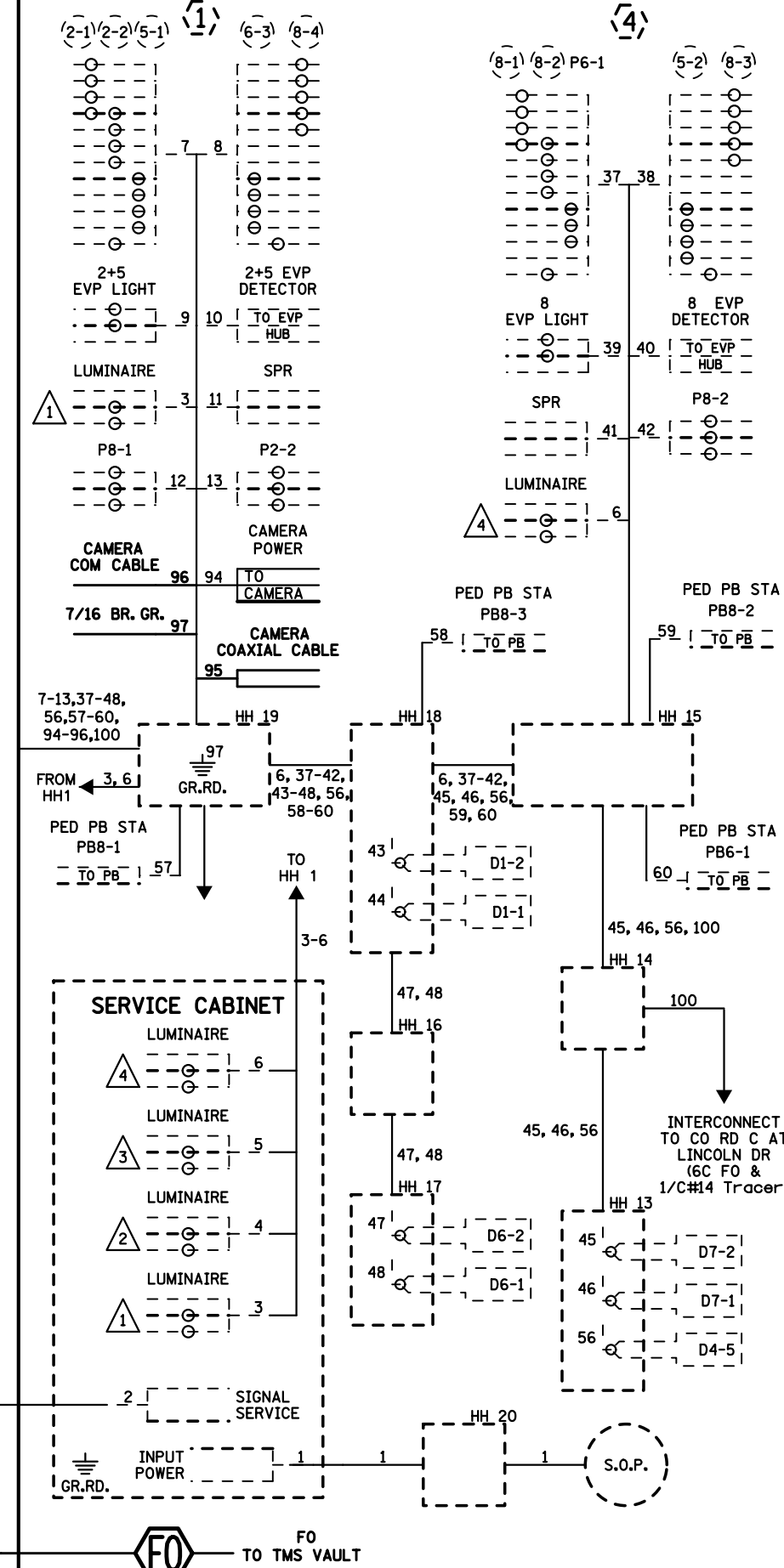
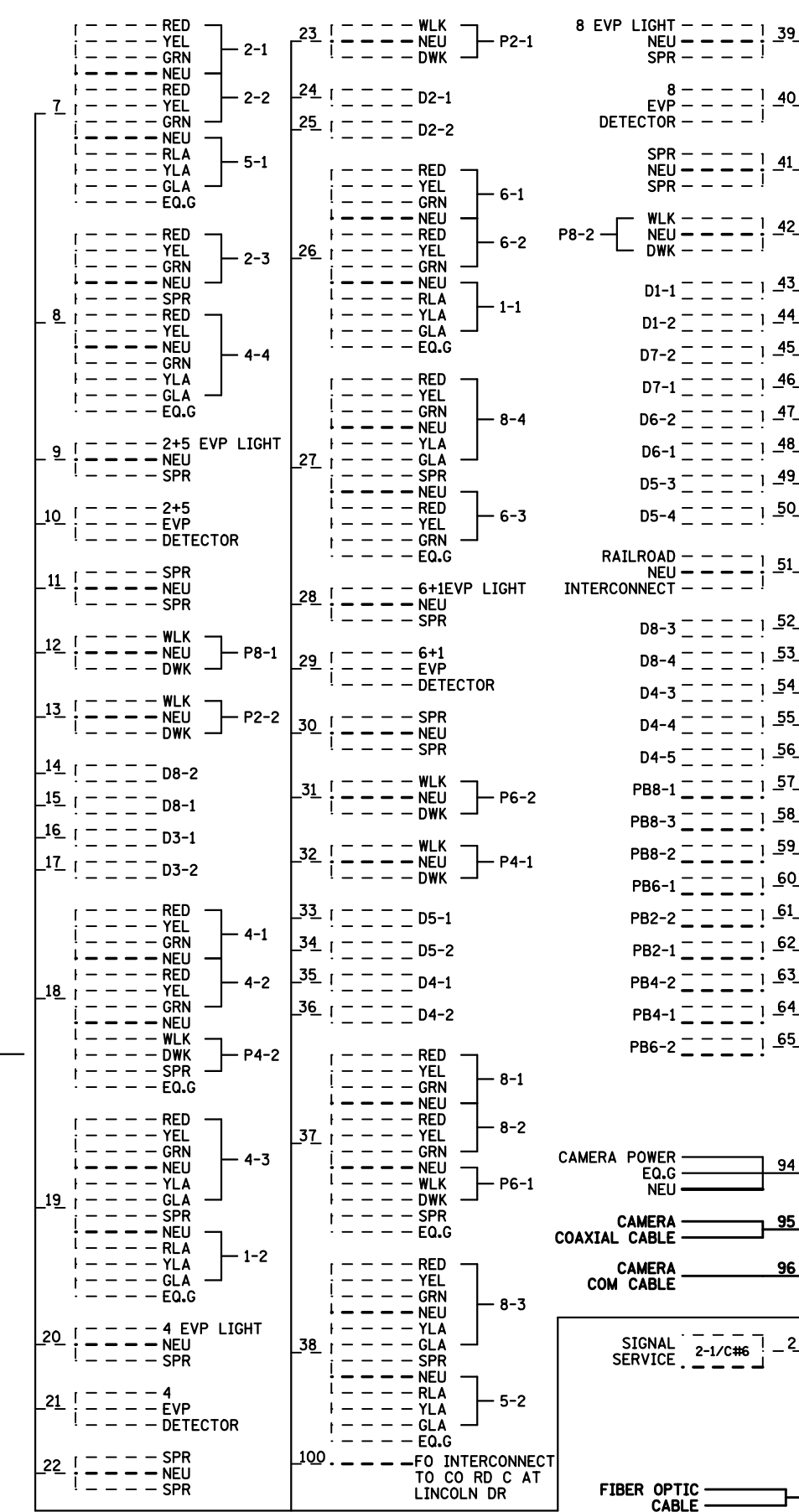


**CONDUCTOR COLOR CODE (12 GAUGE)**

TO SIGNAL CABINET			
3/C#20	R OR O WH OR YEL BLK OR BL	R BL WH	
2/C#14	BLK CLR OR WH	R/BLK O/BLK	
3-1/C#2	R WH BLK G	BLK/BLK WH/BLK BLK C/BLK	INPUT POWER
3-1/C#6	WH G	G/BLK G	SIGNAL SERVICE
2-1/C	WH	BLK	
1/C#6	G	BLK	
6PR#19		WH	

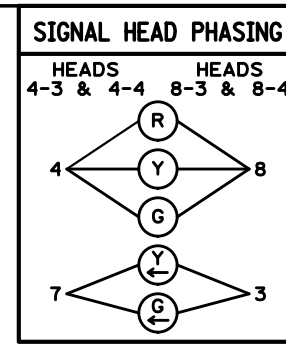
NOTE:  
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

NOTES:  
1. LUMINAIRES ARE UNMETERED.



LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	37 & 8
D2-1, D2-2	6x6	500
D3-1, D3-2	6x6	32 & 2
D4-1, D4-2	6x6	250
D4-3, D4-4, D4-5	2-6x6	-6 & 9
D5-1, D5-2	2-6x6	3 & 18
D5-3, D5-4	6x6	15
D6-1, D6-2	6x6	500
D7-1, 7-2	2-6x6	-4 & 26
D8-1, D8-2	6x6	250
D8-3, D8-4	6x6	2 & 17

-ALL LOOP DETECTORS ARE PVC  
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

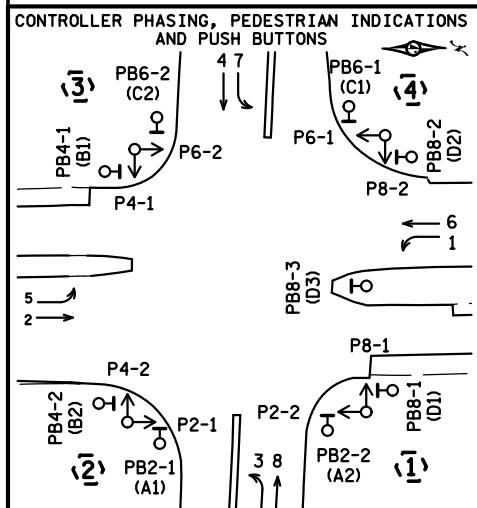


SIGNAL FACE CHART					
FACE	R	Y	G	Y	G
1-1,1-2	←	←	←		
2-1,2-2,2-3	○	○	○		
4-1,4-2	○	○	○		
4-3,4-4	○	○	○	←	←
5-1,5-2	←	←	←		
6-1,6-2,6-3	○	○	○		
8-1,8-2	○	○	○		
8-3,8-4	○	○	○	←	←

-ALL SIGNAL INDICATIONS ARE 12" LED  
-ALL SIGNAL FACES HAVE A BACKGROUND SHIELD

PLOTTED/REVISED: 3/2/2012

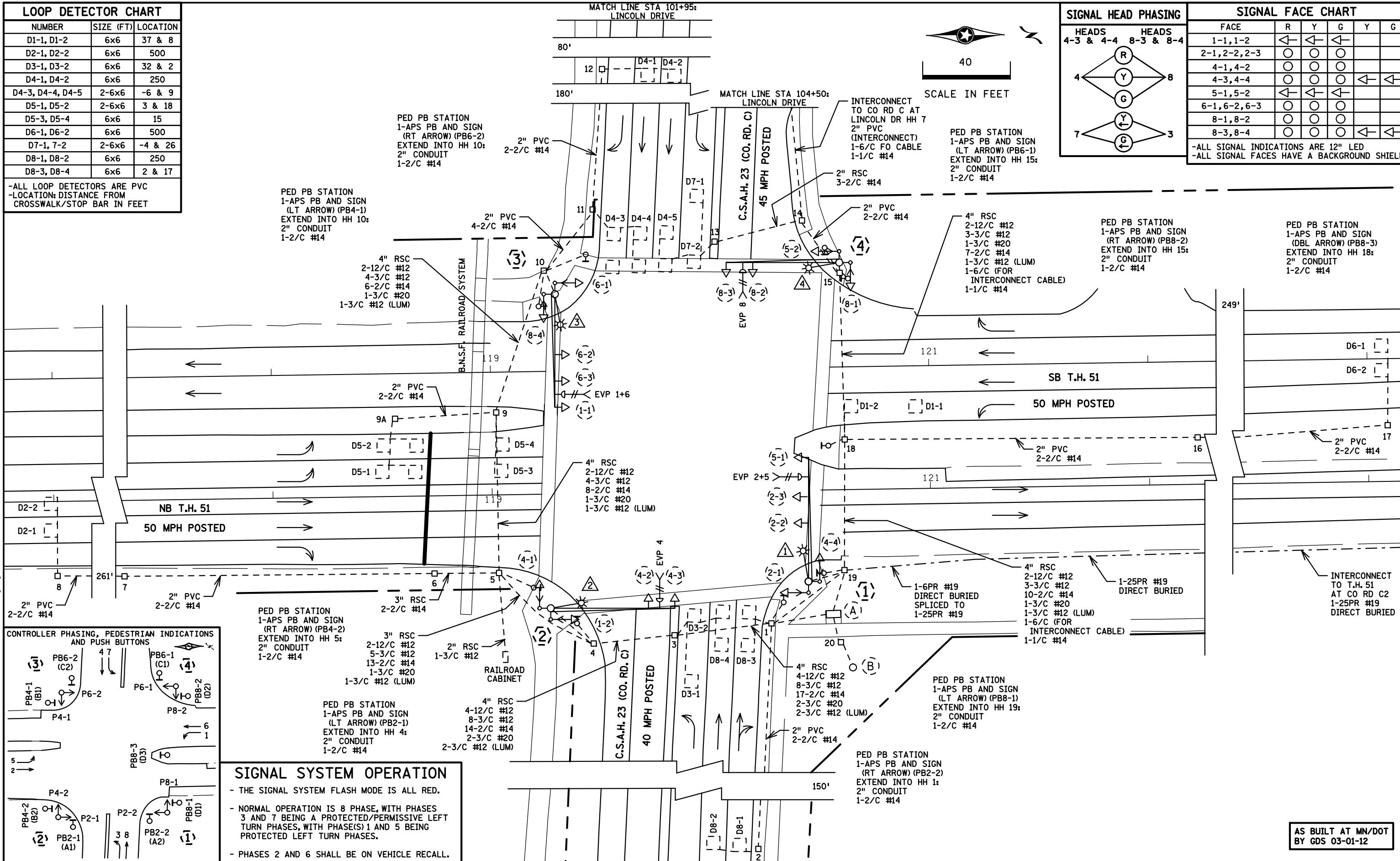
DISTRICT #: METRO  
IPLOT NAME: layout  
PATH & FILENAME: IP\_PWP-d0781624-T20741\_sgl.dgn



**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 3 AND 7 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASES, WITH PHASE(S) 1 AND 5 BEING PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

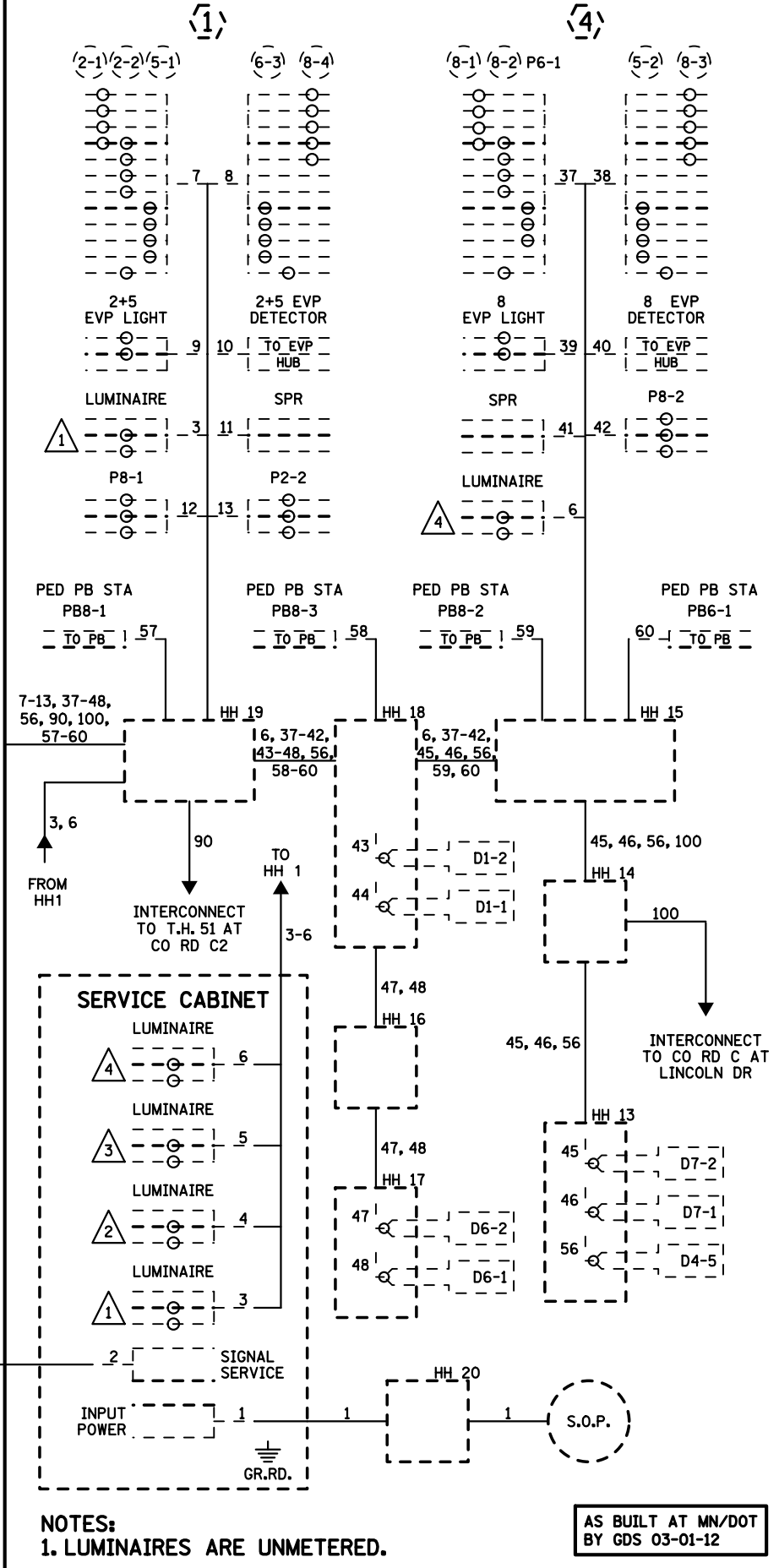
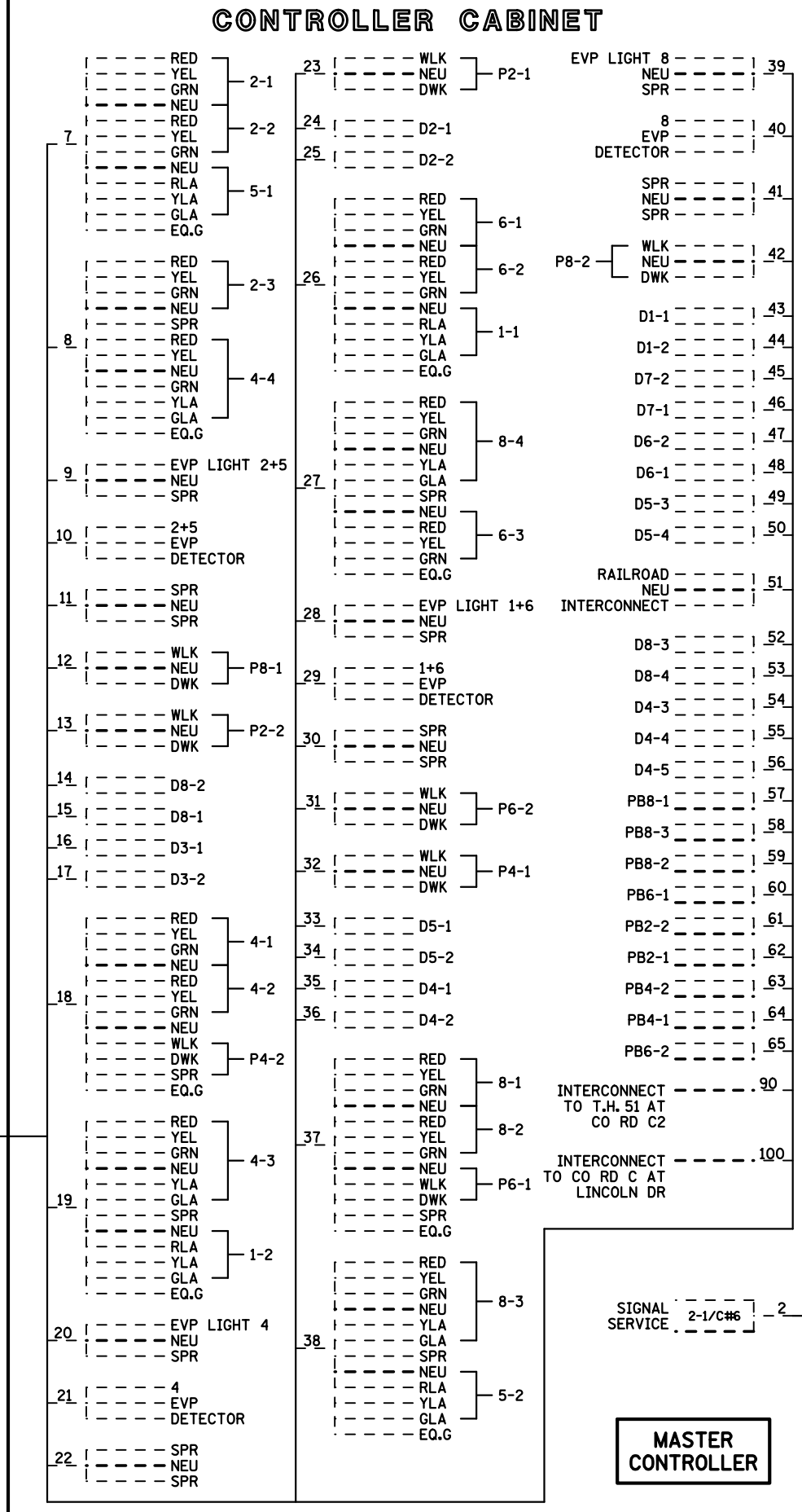
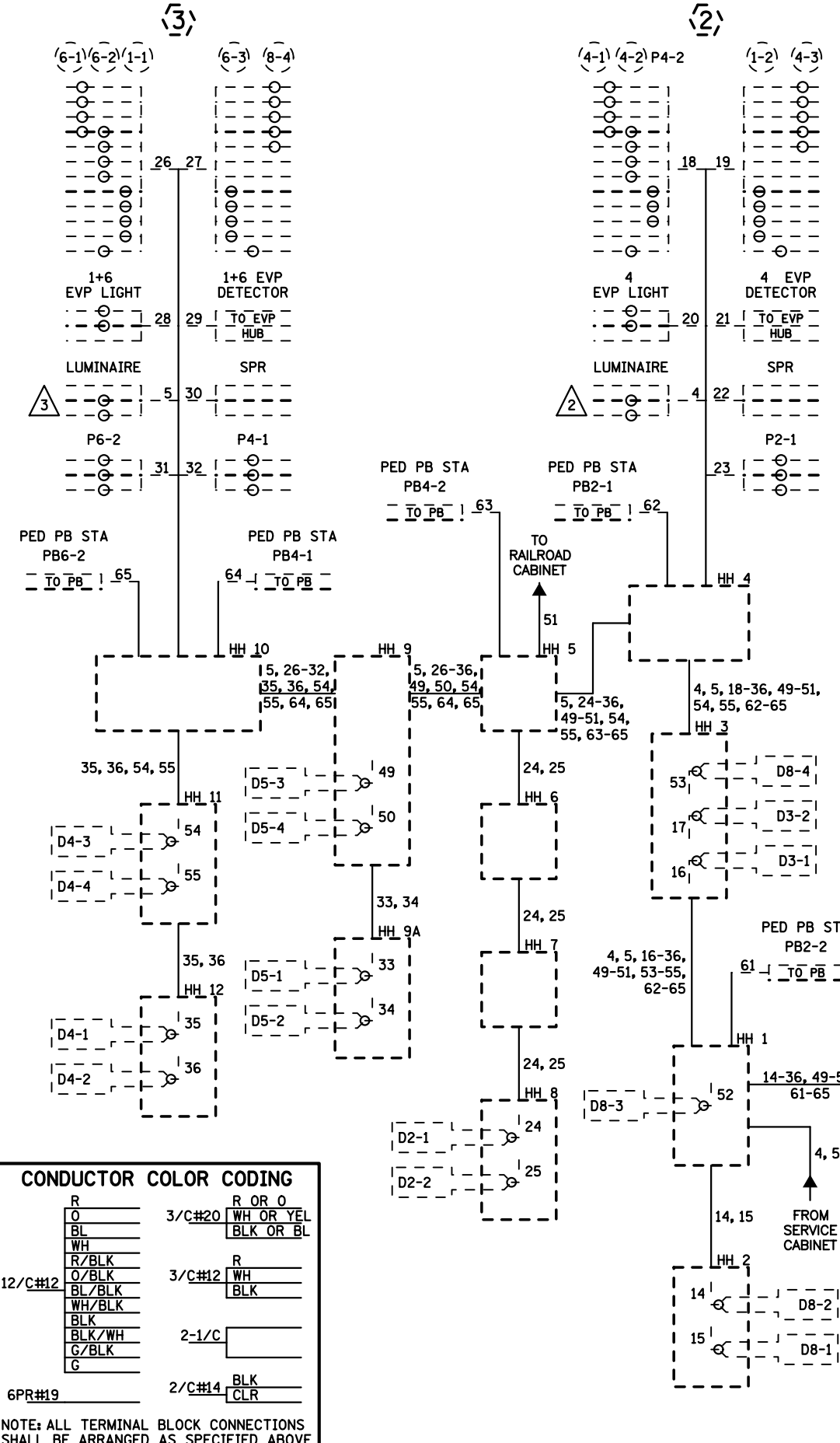
BY: GDS	DATE: 03-01-12	REVISIONS: UPDATE ADA	SYSTEM ID: 20741	T.E. 5367	<b>INTERSECTION LAYOUT</b> <b>TRAFFIC CONTROL SIGNAL SYSTEM</b> <b>T.H. 51 AT C.S.A.H. 23 (COUNTY ROAD C)</b> <b>IN ROSEVILLE, RAMSEY COUNTY</b>	S.A.P. NO.	DRAWN BY: GDS	CKD BY: BTJ	DATE: 4-21-11	
			METER ADDRESS: 2642 SNELLING AVE N	T.E.		CERTIFIED BY: _____	LIC. NO. _____	DATE: 4-21-11		
			MASTER ID: 20742			STATE PROJ. NO. 8825-393	SHEET NO. 23 OF 122 SHEETS			



PLOTTED/REVISED: 3/2/2012

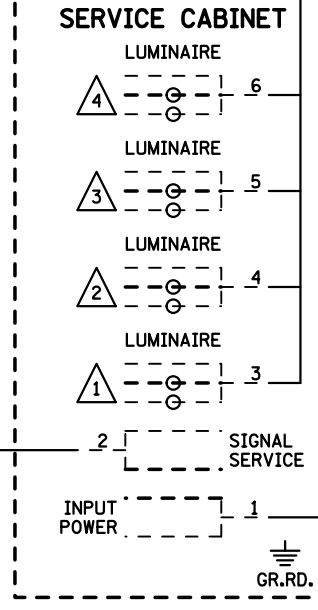
DISTRICT #: METRO  
IPLOT NAME: wiring  
PATH & FILENAME: IP\_PWP-d0781624T20741\_sgl.dgn

# CONTROLLER CABINET



CONDUCTOR COLOR CODING	
R	R OR O
O	WH OR YEL
BL	BLK OR BL
WH	
R/BLK	R
O/BLK	WH
BL/BLK	BLK
WH/BLK	
BLK	
BLK/WH	
G/BLK	
G	
6PR#19	2/C#14 BLK CLR

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE



NOTES:  
1. LUMINAIRES ARE UNMETERED.

AS BUILT AT MN/DOT  
BY GDS 03-01-12

BY	DATE	REVISIONS
GDS	03-01-12	UPDATE ADA

SYSTEM ID: 20741	T.E. 5367
METER ADDRESS: 2642 SNELLING AVE N	
MASTER ID: 20742	T.E.

FIELD WIRING DIAGRAM  
TRAFFIC CONTROL SIGNAL SYSTEM  
T.H. 51 AT C.S.A.H. 23 (COUNTY ROAD C)  
IN ROSEVILLE, RAMSEY COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: BTJ	DATE: 4-21-11
CERTIFIED BY	LIC. NO.	DATE:	4-21-11
STATE PROJ. NO. 8825-393		SHEET NO. 25 OF 122 SHEETS	



③ PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
 3-ONE WAY SIGNALS OVERHEAD AT 0', 12' AND 25'  
 2-TYPE 10B POLE MOUNTED AT 90 & 180 DEG  
 2-C. D. PED IND  
 1-ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASES 1+6)  
 LUMINAIRE - 250 W HPS  
 2-PED PB AND SIGNS  
 TYPE D SIGN  
 EXTEND INTO HH 10  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

④ PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)  
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 12'  
 2-TYPE 10B POLE MOUNTED AT 90 AND 180 DEG  
 2-C. D. PED IND  
 1-ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 8)  
 LUMINAIRE - 250 W HPS  
 2-PED PB AND SIGNS  
 1-R10-12 SIGN ADJACENT TO HEAD 8-3  
 TYPE D SIGN  
 EXTEND INTO HH 14  
 3" RSC  
 2-12/C #12  
 3-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

Ⓐ EQUIPMENT PAD  
 SERVICE CABINET  
 MASTER CONTROLLER,  
 CONTROLLER & CABINET  
 4" RSC TO HH 19 4" RSC TO HH 1  
 4-12/C #12 4-12/C #12  
 9-3/C #12 8-3/C #12  
 2-3/C #20 2-3/C #20  
 11-2/C #14 21-2/C #14  
 1-6PR #19  
 (INTERCONNECT)  
 1-6/C FO CABLE  
 1-1/C #14  
  
 3" RSC STUBBED OUT (THREADED  
 & CAPPED BOTH ENDS)  
 2" RSC TO CONTROLLER  
 2-1/C #6  
 1-1/C # 6 INS. GR.  
 SERVICE CABINET TO HH 1  
 2" RSC  
 4-3/C #12  
 SERVICE CABINET TO HH 20  
 3-1/C #2  
 HH 1 TO HH 19  
 2" PVC  
 2-3/C #12 (LUM)

② PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)  
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 12'  
 2-TYPE 10B POLE MOUNTED AT 90 AND 180 DEG  
 2-C. D. PED IND  
 1-ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 4)  
 LUMINAIRE - 250 W HPS  
 2-PED PB AND SIGNS  
 1-R10-12 SIGN ADJACENT TO HEAD 4-3  
 TYPE D SIGN  
 EXTEND INTO HH 4  
 3" RSC  
 2-12/C #12  
 3-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

① PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)  
 3-ONE WAY SIGNALS OVERHEAD AT 0', 18' AND 30'  
 2-TYPE 10B POLE MOUNTED AT 90 AND 180 DEG  
 2-C. D. PED IND  
 1-ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASES 2+5)  
 LUMINAIRE - 250 W HPS  
 2-PED PB AND SIGNS  
 TYPE D SIGN  
 EXTEND INTO HH 19  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 1-3/C #20  
 1-3/C #12 (LUM)

Ⓑ S.O.P. - WOOD POLE (BY XCEL)  
 2" RSC RISER, WEATHERHEAD  
 & CONDUIT TO HH 20  
 3-1/C #2

AS BUILT AT MN/DOT  
 BY GDS 03-01-12

BY	DATE	REVISIONS	SYSTEM ID: 20741	T.E. 5367	<b>INTERSECTION LAYOUT NOTES          TRAFFIC CONTROL SIGNAL SYSTEM          T.H. 51 AT C.S.A.H. 23 (COUNTY ROAD C)          IN ROSEVILLE, RAMSEY COUNTY</b>	S.A.P. NO.	DRAWN BY: GDS	CKD BY: BTJ	DATE: 4-21-11
GDS	03-01-12	UPDATE ADA	METER ADDRESS: 2642 SNELLING AVE N			CERTIFIED BY _____	LIC. NO. _____	DATE: 4-21-11	
			MASTER ID: 20742	T.E.		<small>LICENSED PROFESSIONAL ENGINEER</small>			
						STATE PROJ. NO. 8825-393	<b>SHEET NO. 24 OF 122 SHEETS</b>		