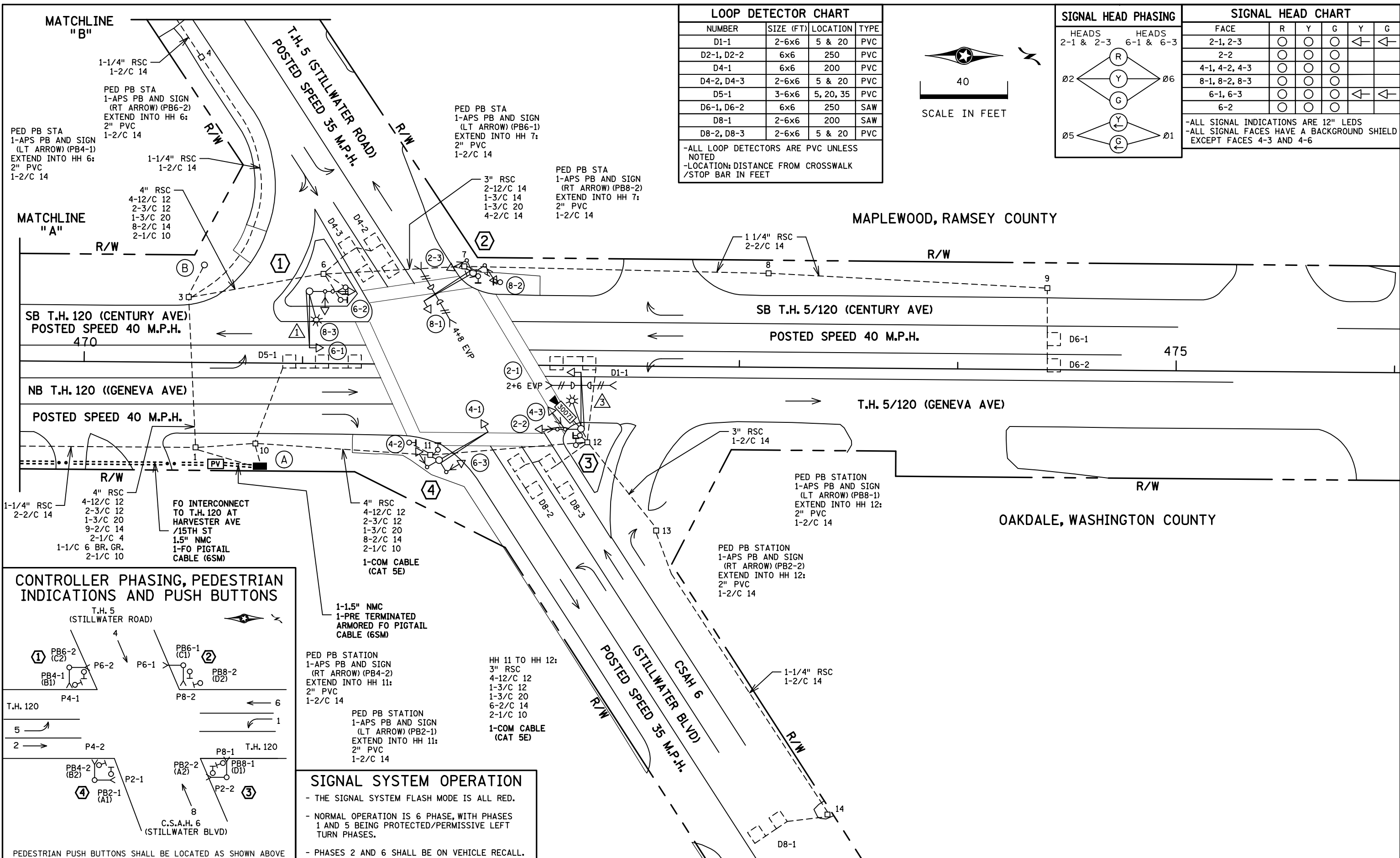
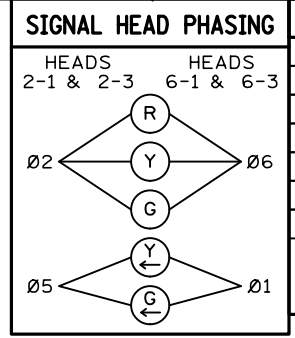
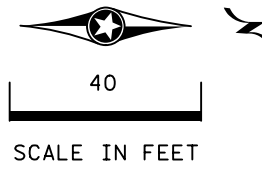


DISTRICT #: Metro
 IPLOT NAME: T1735673.sgl
 PATH & FILENAME: Projects\DM罗斯\005\0000\Traffic\Signals\4.8 TH5 @ TH 120 S Jct CSAH 6 - Stillwater Blvd 1735673.T1735673E.Bgn\Signal\SED: 18-JAN-2023



LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1	2-6x6	5 & 20	PVC
D2-1, D2-2	6x6	250	PVC
D4-1	6x6	200	PVC
D4-2, D4-3	2-6x6	5 & 20	PVC
D5-1	3-6x6	5, 20, 35	PVC
D6-1, D6-2	6x6	250	SAW
D8-1	2-6x6	200	SAW
D8-2, D8-3	2-6x6	5 & 20	PVC

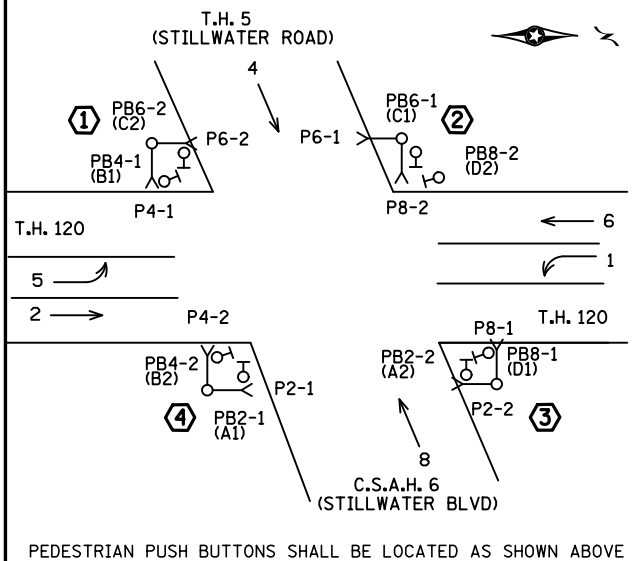
-ALL LOOP DETECTORS ARE PVC UNLESS NOTED
 -LOCATION: DISTANCE FROM CROSSWALK / STOP BAR IN FEET



SIGNAL HEAD CHART					
FACE	R	Y	G	Y	G
2-1, 2-3	○	○	○	◄	◄
2-2	○	○	○		
4-1, 4-2, 4-3	○	○	○		
8-1, 8-2, 8-3	○	○	○		
6-1, 6-3	○	○	○	◄	◄
6-2	○	○	○		

-ALL SIGNAL INDICATIONS ARE 12" LEDS
 -ALL SIGNAL FACES HAVE A BACKGROUND SHIELD EXCEPT FACES 4-3 AND 4-6

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE
SIGNAL SYSTEM OPERATION
 - THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
 - PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS	SYSTEM ID: 1735673	T.E. 6051	S.A.P. NO.	DRAWN BY:GDS	CKD BY:GBB	DATE:05-03-18
SJK	1/18/23	AS-BUILT PLAN SP 6227-83	METER ADDRESS: 1125 CENTURY AVE N	OLD SYSTEM ID: 21437	CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER		LIC. NO. 19863 DATE: 06-06-18
INTERSECTION LAYOUT REVISE SIGNAL SYSTEM F T.H. 5 AT S. JCT. T.H. 120 AT C.S.A.H. 6 (STILLWATER BLVD.) IN MAPLEWOOD, RAMSEY COUNTY AND OAKDALE, WASHINGTON COUNTY					STATE PROJ. NO. 6227-83 (T.H.120) SHEET NO. 52 OF 89 SHEETS			

DISTRICT #: Metro
 IPLOT NAME: T1735673.sgl
 PATH & FILENAME: Projects\DM罗斯005\0000\Traffic\Signals\418 TH5 @ TH 120 S Jct CSAH 6 - Stillwater Blvd 1735673.T1735673E.Bgn\18JAN2023

① P90 POLE FOUNDATION
 TYPE P90-A-25-D40-9 (DAVIT AT 350 DEG)
 ONE WAY SIGNAL-OVERHEAD AT 0'
 TYPE 20C AT 270 DEG
 LUMINAIRE-200W H.P.S. W/P.E.C.
 2-C.D. PED HEADS
 R10-12 SIGN (36"x48")
 EXTEND INTO HH 6:
 3" RSC
 2-12/C 12
 1-3/C 12
 2-1/C 10

④ P90 POLE FOUNDATION
 TYPE P90-A-25
 ONE WAY SIGNAL-OVERHEAD AT 0'
 2-TYPE 10B AT 90 AND 180 DEG
 2-C.D. PED HEADS
 EXTEND INTO HH 11:
 3" RSC
 2-12/C 12
 1-3/C 12

② P90 POLE FOUNDATION
 TYPE P90-A-25
 ONE WAY SIGNAL-OVERHEAD AT 0'
 2-TYPE 10B AT 90 AND 180 DEG
 TWO WAY EVP DETECTOR AND LIGHTS (4&8)
 2-C.D. PED HEADS
 EXTEND INTO HH 7:
 3" RSC
 2-12/C 12
 1-3/C 12
 1-3/C 20

③ P90 POLE FOUNDATION
 TYPE P90-A-25-D40-9 (DAVIT AT 350 DEG)
 1-X6-350/CAM 400 EXTENSION
 (MOUNTED AT 350 DEG)
 (INCLUDES LIGHTNING ROD)
 7/16" GROUND BRAID
 1-VIDEO CAMERA WITH MOUNT

 ONE WAY SIGNAL-OVERHEAD AT 0'
 TYPE 20C AT 270 DEG
 TWO WAY EVP DETECTOR AND LIGHTS (2+6)
 LUMINAIRE - 200W H.P.S. W/P.E.C.
 2-C.D. PED HEADS
 R10-12 SIGN (36"x48")
 EXTEND INTO HH 12:
 3" RSC
 2-12/C 12
 1-3/C 12
 1-3/C 20
 2-1/C 10
 1-7/16" GROUND BRAID
 TO GROUND ROD
 1-COM CABLE (CAT 5E)

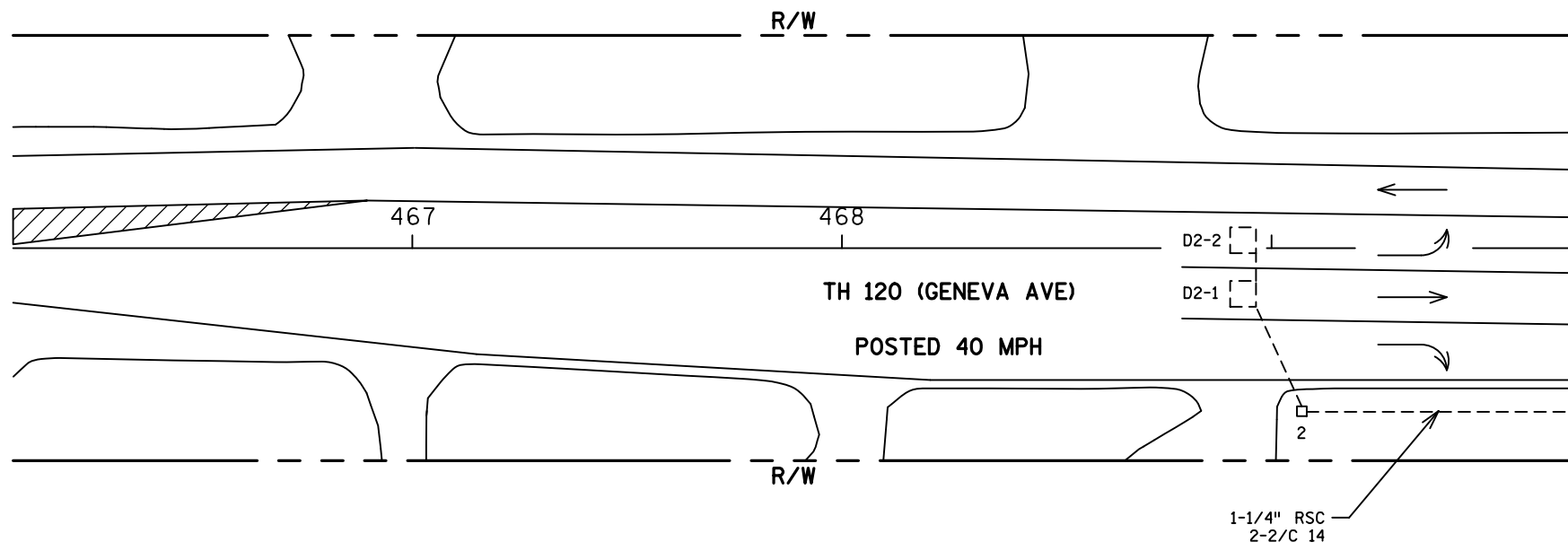
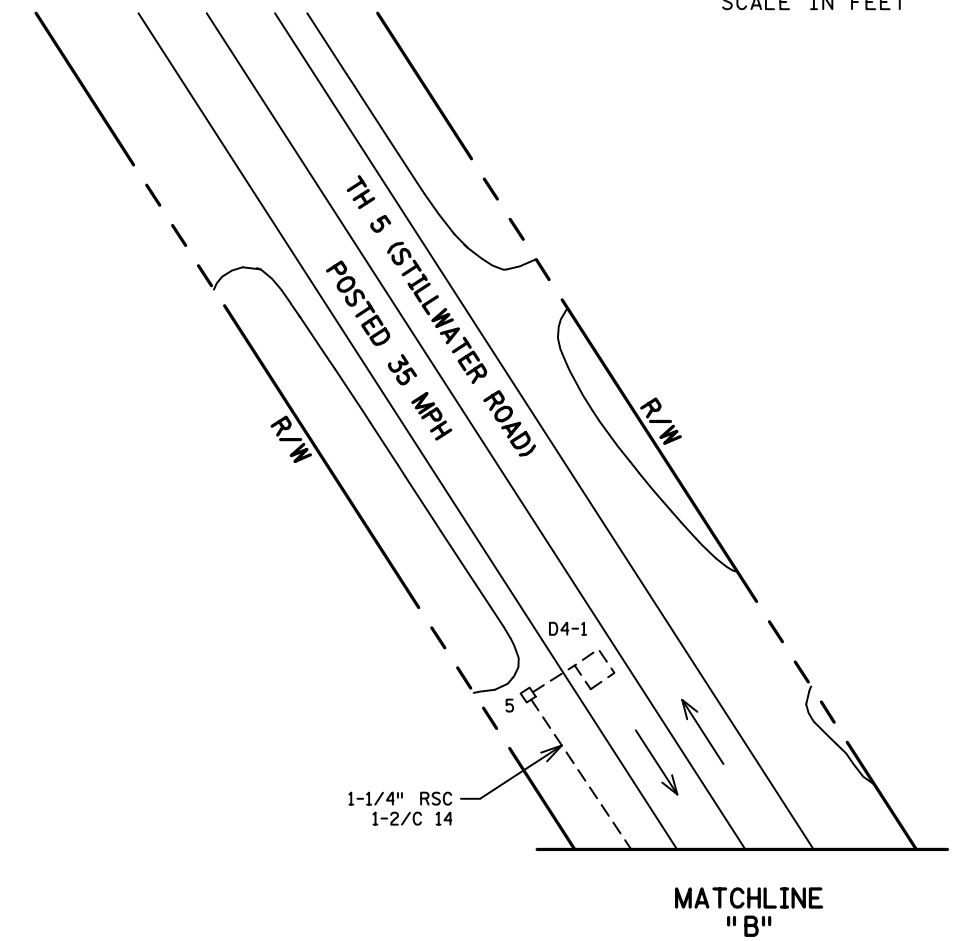
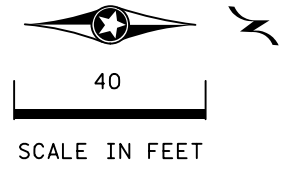
A EQUIPMENT PAD
 LOAD CENTER
 CONTROLLER AND CABINET
 4" RSC TO HH 1: 4" RSC TO HH 10:
 4-12/C 12 4-12/C 12
 2-3/C 12 2-3/C 12
 1-3/C 20 1-3/C 20
 12-2/C 14 8-2/C 14
 1-COM CABLE (CAT 5E)

 3/4" RSC STUBBED OUT
 (CAPPED BOTH ENDS)

CONTROLLER CABINET TO
 PULL VAULT:
 1-1.5" NMC
 1-PRE TERMINATED ARMORED
 FO PIGTAIL CABLE (6SM)

 LOAD CENTER TO
 CONTROLLER CABINET:
 2" IMC
 2-1/C 4
 1-1/C 6 BR. GR.
 HH 1 TO HH 10:
 2" IMC
 2-1/C 10 (LUM)

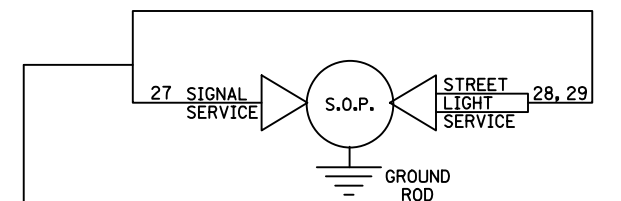
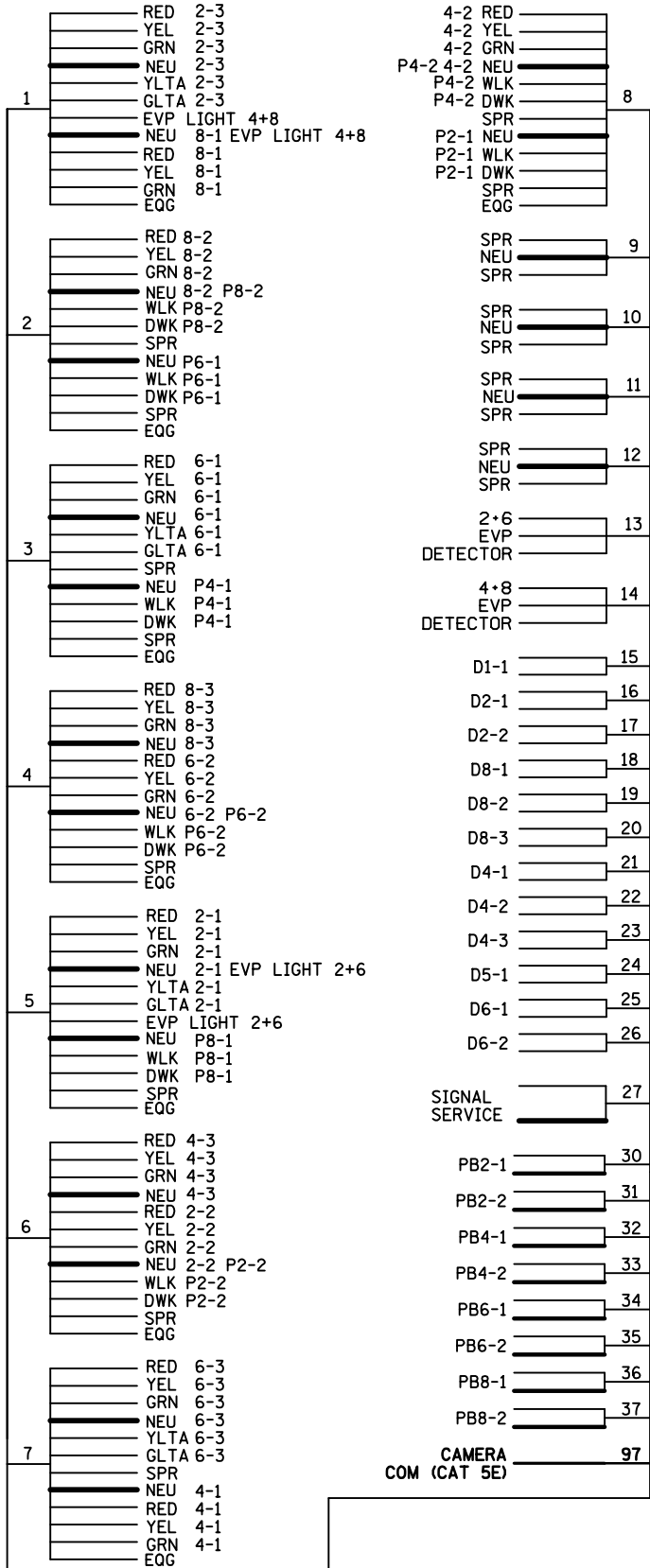
B WOOD POLE
 1 1/4" RSC RISER AND WEATHERHEAD
 3-1/C 4
 SERVICE EQUIPMENT
 1 1/4" RSC RISER, EXTEND INTO HH 3:
 2-1/C 4
 1-1/C 6 BR.GR.
 4-1/C 10



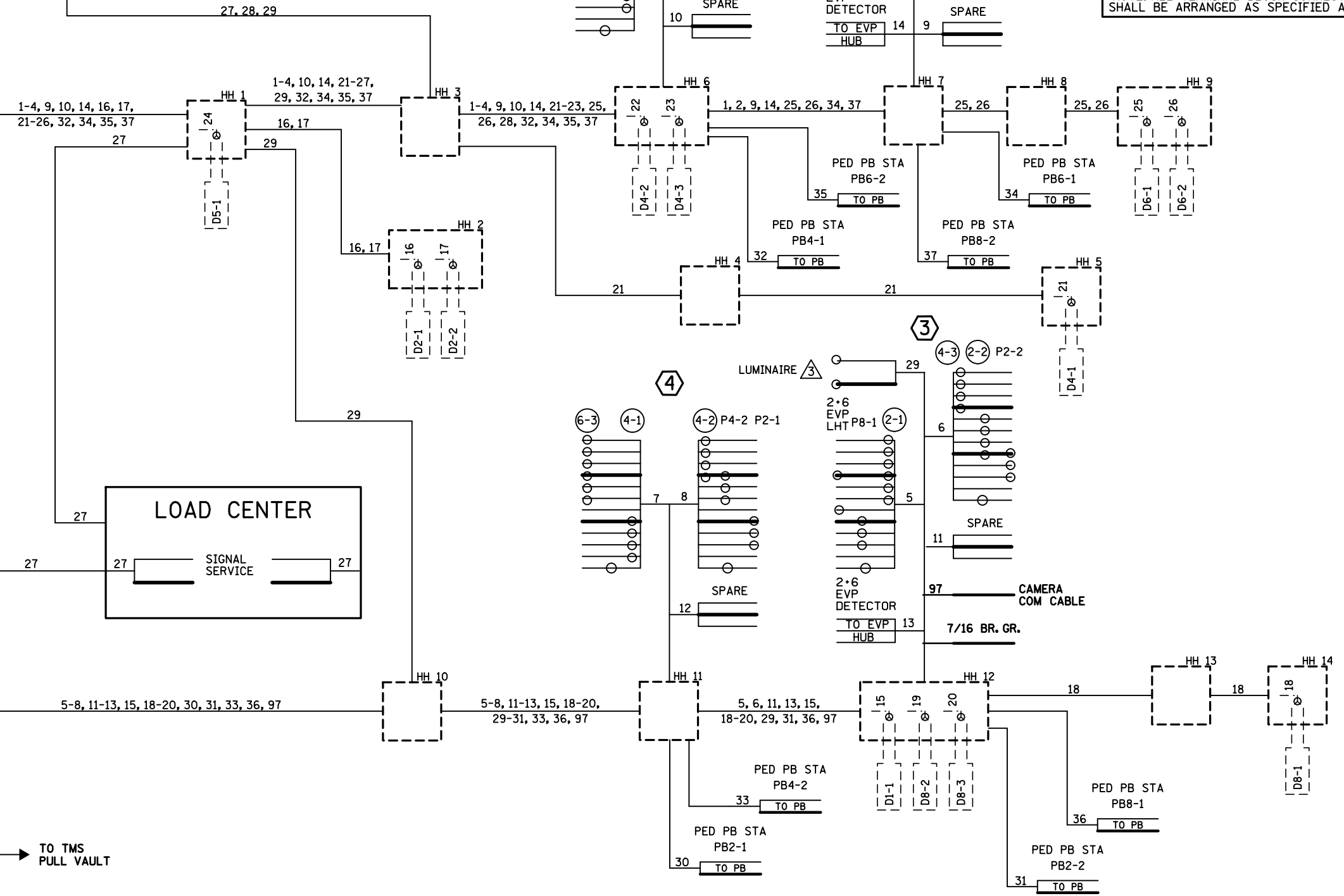
BY	DATE	REVISIONS	SYSTEM ID: 1735673	T.E. 6051	INTERSECTION NOTES & MATCHLINES	S.A.P. NO.	DRAWN BY:GDS	CKD BY:GDB	DATE:05-03-18
SJK	1/18/23	AS-BUILT PLAN SP 6227-83	METER ADDRESS: 1125 CENTURY AVE N		REVISE SIGNAL SYSTEM F	CERTIFIED BY _____			LIC. NO. 19863
			OLD SYSTEM ID: 21437		T.H. 5 AT S. JCT. T.H. 120 AT C.S.A.H. 6	LICENSED PROFESSIONAL ENGINEER			DATE: 06-06-18
					(STILLWATER BLVD.) IN MAPLEWOOD, RAMSEY COUNTY AND OAKDALE, WASHINGTON COUNTY	STATE PROJ.NO. 6227-83 (T.H.120)			SHEET NO. 53 OF 89 SHEETS

DISTRICT #: Metro
 IPLOT NAME: T1735673.sgl
 PATH & FILENAME: Projects\DM罗斯005\0000\Traffic\Signals\4.8 TH5 @ TH 120 S Jct CSAH 6 - Stillwater Blvd 1735673.T1735673E.Bgl\Signal\SED: 18-JAN-2023

CONTROLLER CABINET



LUMINAIRES ARE UNMETERED



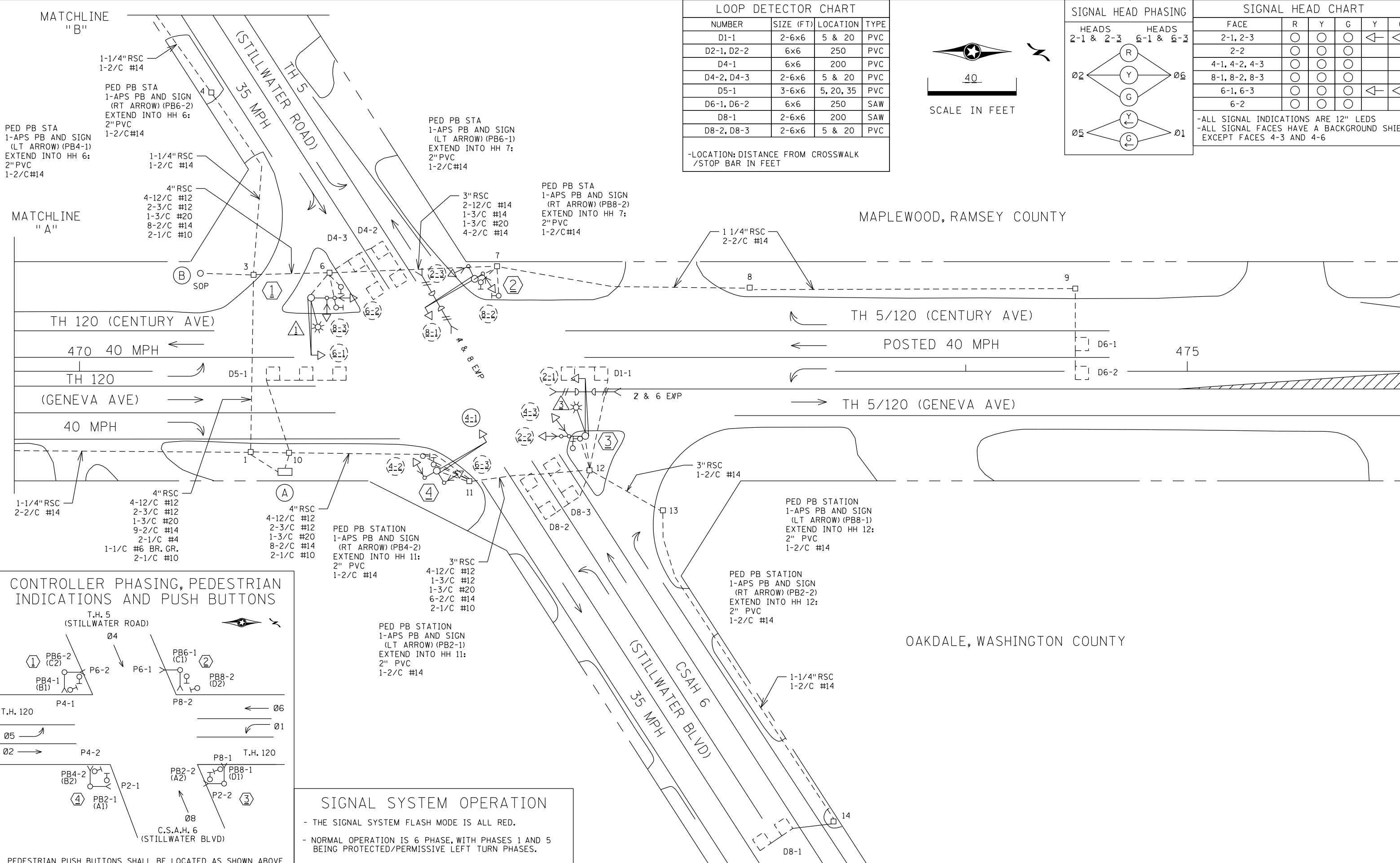
CONDUCTOR COLOR CODING	
R	R
O	BL
BL	WH
WH	G
R/BLK	5/C 12
O/BLK	
BL/BLK	
WH/BLK	
BLK	R
BLK/WH	WH
G/BLK	BLK
G	R OR O
	WH OR YEL
	BLK OR BL
BLK	3/C 20
WH	
	BLK
	BLK CLEAR
	2/C 14

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

BY	DATE	REVISIONS	SYSTEM ID: 1735673	T.E. 6051	FIELD WIRING DIAGRAM	S.A.P. NO.	DRAWN BY:GDS	CKD BY:GBB	DATE:05-03-18
SJK	1/18/23	AS-BUILT PLAN SP 6227-83	METER ADDRESS: 1125 CENTURY AVE N	OLD SYSTEM ID: 21437	REVISE SIGNAL SYSTEM F	CERTIFIED BY _____	LIC. NO. 19863	DATE: 06-06-18	
					STATE PROJ.NO. 6227-83 (T.H.120)	SHEET NO. 54 OF 89 SHEETS			

PLOTTED/REVISED/DATE

DISTRICT # IPLOT NAME & FILENAME



BY	DATE	REVISIONS
GDS	03-16-12	AS-BUILT OF SP 8825-393 APS
EJA	3-22-16	PLAN UPDATES, NAME CORRECTIONS

SYSTEM ID: 21437 T.E. _____

METER ADDRESS: 1125 CENTURY AVE N

MASTER ID: _____ T.E. _____

INTERSECTION LAYOUT
TH 5 AT S JCT TH 120 AT CSAH 6
(STILLWATER BLVD) IN MAPLEWOOD, RAMSEY COUNTY
& OAKDALE, WASHINGTON COUNTY

S.A.P. NO. _____ DRAWN BY: SJK CKD BY: BIJ DATE: 04-21-11

CERTIFIED BY: _____ LIC. NO. _____ DATE: _____

STATE PROJ. NO. _____ SHEET NO. 1 OF 3 SHEETS

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

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

① TYPE P90-A-25-D40-9 (DAVIT AT 350 DEG)
P90 POLE FOUNDATION
LUMINAIRE-200W H.P.S. W/P.E.C. & TEST SW
ONE WAY SIGNAL-OVERHEAD AT 0'
TYPE 20C AT 270 DEG
2-C.D. PED HEADS
R10-12 SIGN (36"x48")
EXTEND INTO H.H.6:
3"RSC
2-12/C #12
1-3/C #12
2-1/C #10

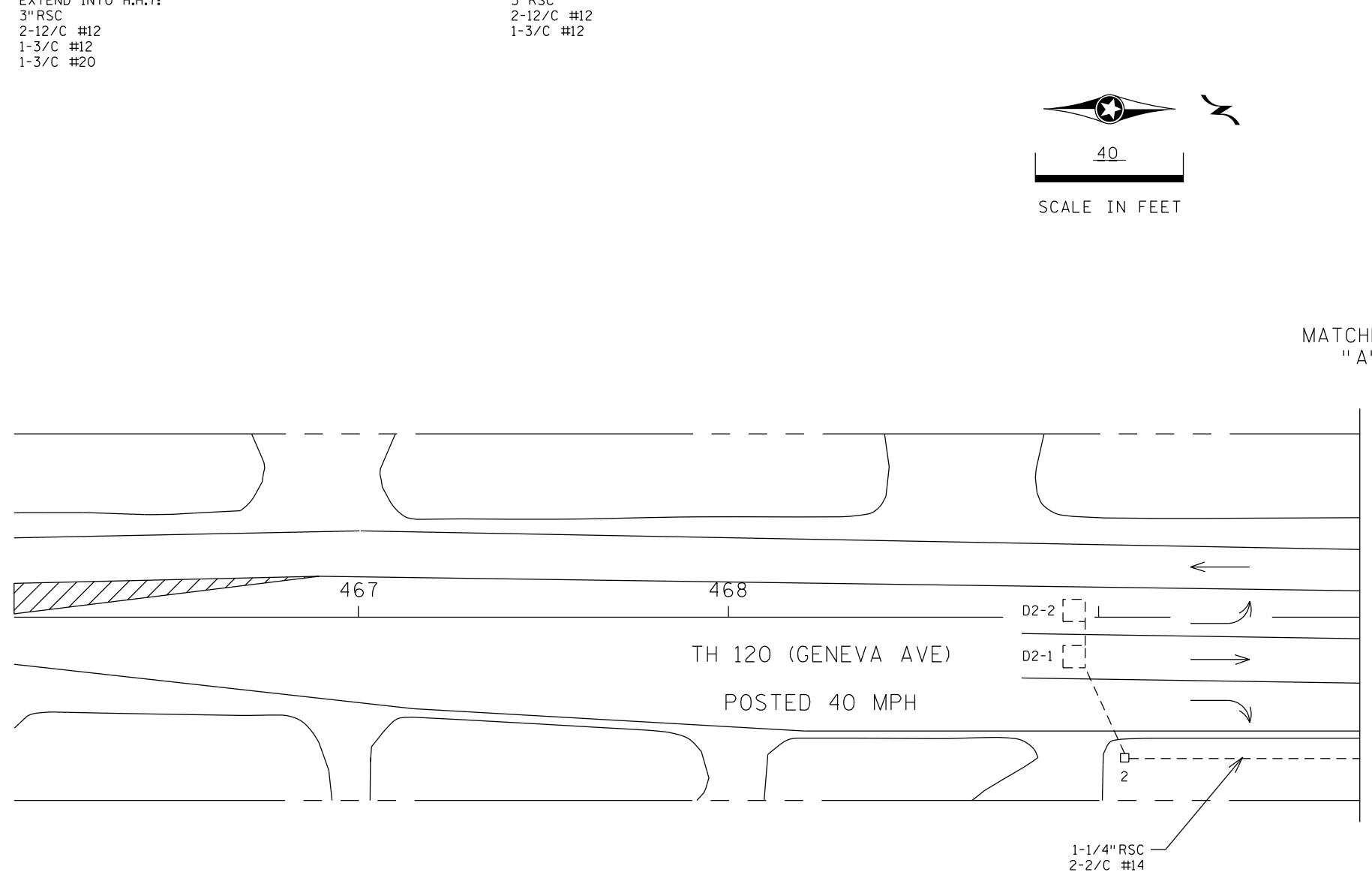
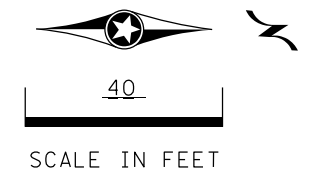
③ TYPE P90-A-25-D40-9 (DAVIT AT 350 DEG)
P90 POLE FOUNDATION
LUMINAIRE - 200W H.P.S. W/P.E.C. & TEST SW
ONE WAY SIGNAL-OVERHEAD AT 0'
TWO WAY EVP DETECTOR AND LIGHTS (2&6)
TYPE 20C AT 270 DEG
2-C.D. PED HEADS
R10-12 SIGN (36"x48")
EXTEND INTO H.H.12:
3"RSC
2-12/C #12
1-3/C #12
1-3/C #20
2-1/C #10

Ⓐ EQUIPMENT PAD
1"RSC STUB OUT - CAP BOTH ENDS
EXTEND INTO H.H.1
4"RSC
4-12/C #12
2-3/C #12
1-3/C #20
12-2/C #14
2" IMC
2-1/C #4
1-1/C #6 BR. GR.
EXTEND INTO H.H.10:
4"RSC
4-12/C #12
2-3/C #12
1-3/C #20
8-2/C #14
BETWEEN H.H.1 AND H.H.10
2" IMC.
2-1/C #10

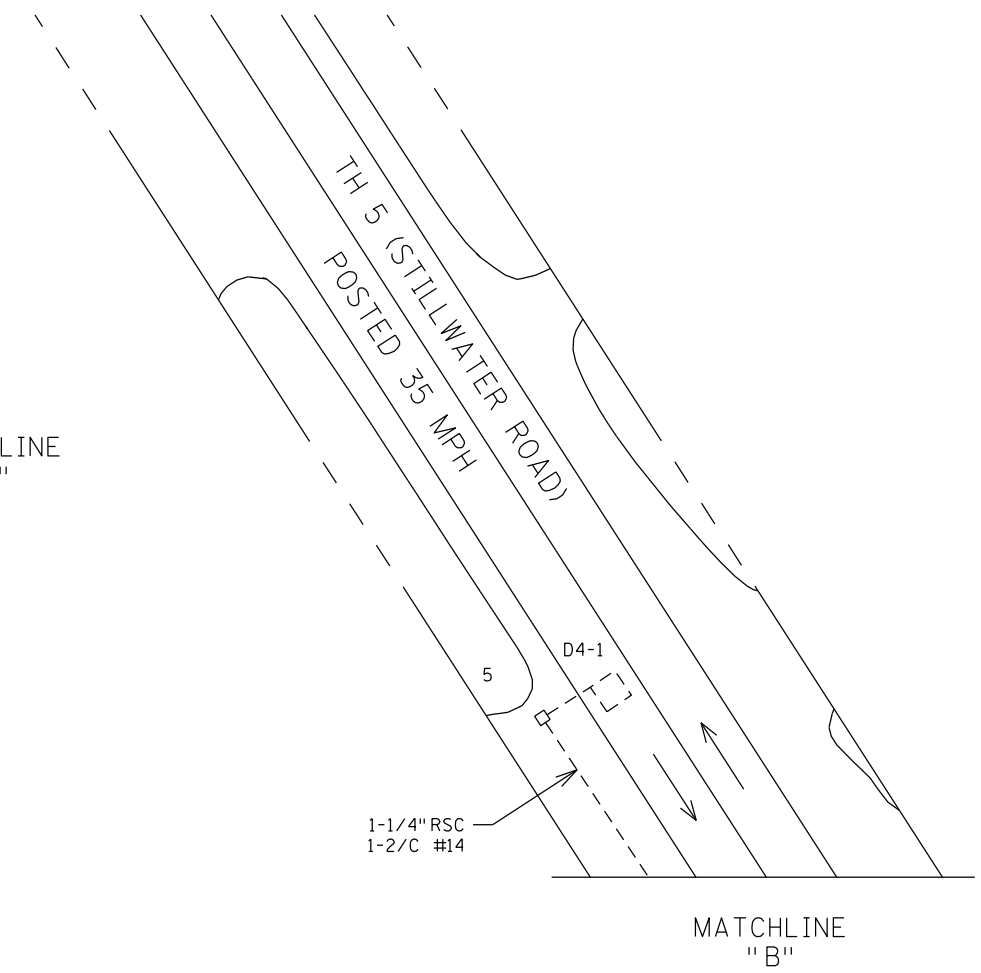
Ⓑ WOOD POLE
1 1/4"RSC RISER AND WEATHERHEAD
3-1/C #4
SERVICE EQUIPMENT
1 1/4"RSC RISER, EXTEND INTO H.H.3
2-1/C #4
1-1/C #6 BR.GR.
4-1/C #10

② TYPE P90-A-25
P90 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD AT 0'
TWO WAY EVP DETECTOR AND LIGHTS (4&8)
2-TYPE 10B AT 90 & 180 DEG
2-C.D. PED HEADS
EXTEND INTO H.H.7:
3"RSC
2-12/C #12
1-3/C #12
1-3/C #20

④ TYPE P90-A-25
P90 POLE FOUNDATION
ONE WAY SIGNAL-OVERHEAD AT 0'
2-TYPE 10B AT 90 & 180 DEG
2-C.D. PED HEADS
EXTEND INTO H.H.11:
3"RSC
2-12/C #12
1-3/C #12



MATCHLINE "A"



MATCHLINE "B"

BY	DATE	REVISIONS
GDS	03-16-12	AS-BUILT OF SP 8825-393 APS
EJA	03-22-16	PLAN UPDATES, NAME CORRECTIONS

SYSTEM ID: 21437 T.E. _____
METER ADDRESS: 1125 CENTURY AVE N
MASTER ID: _____ T.E. _____

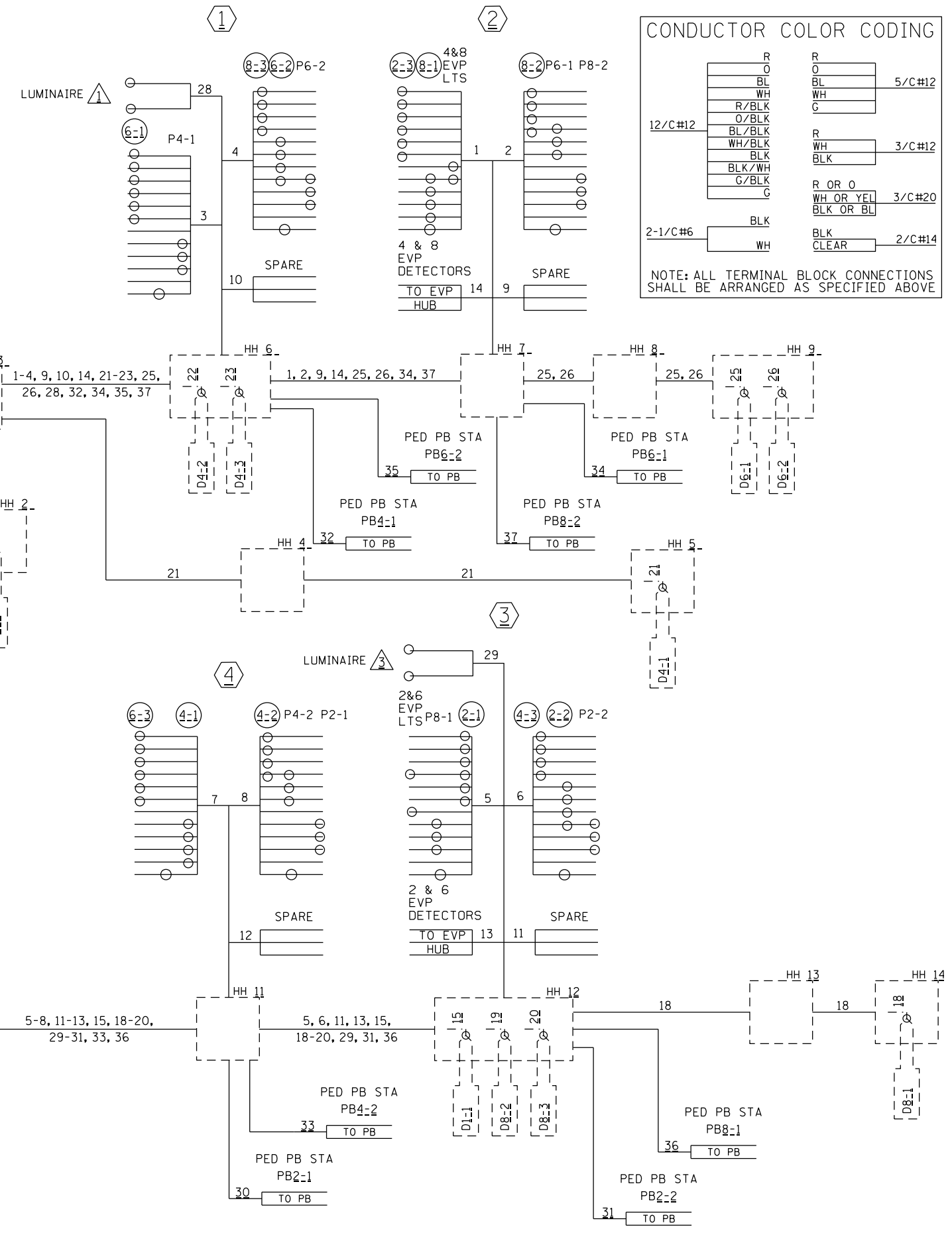
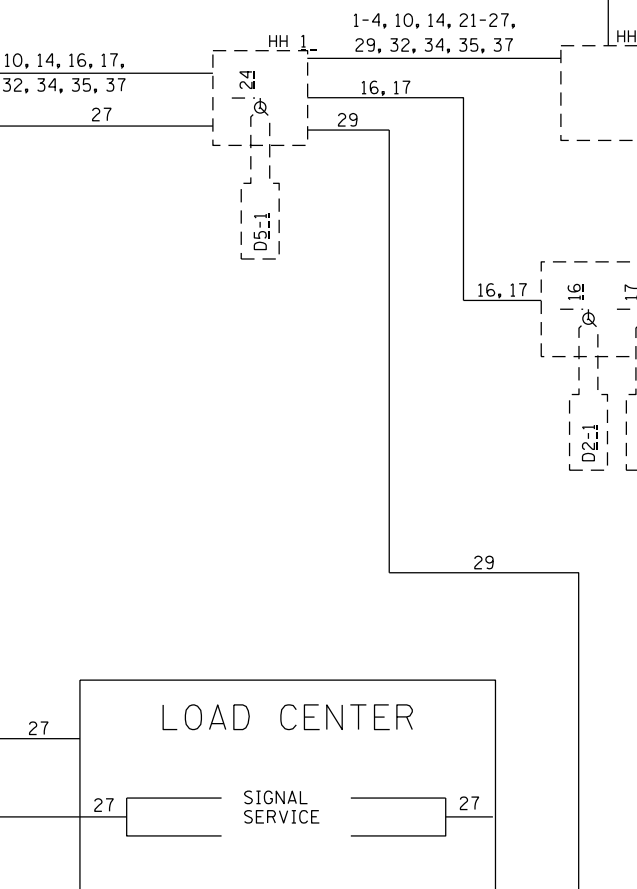
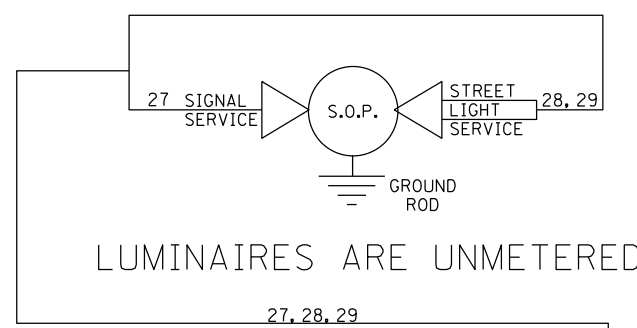
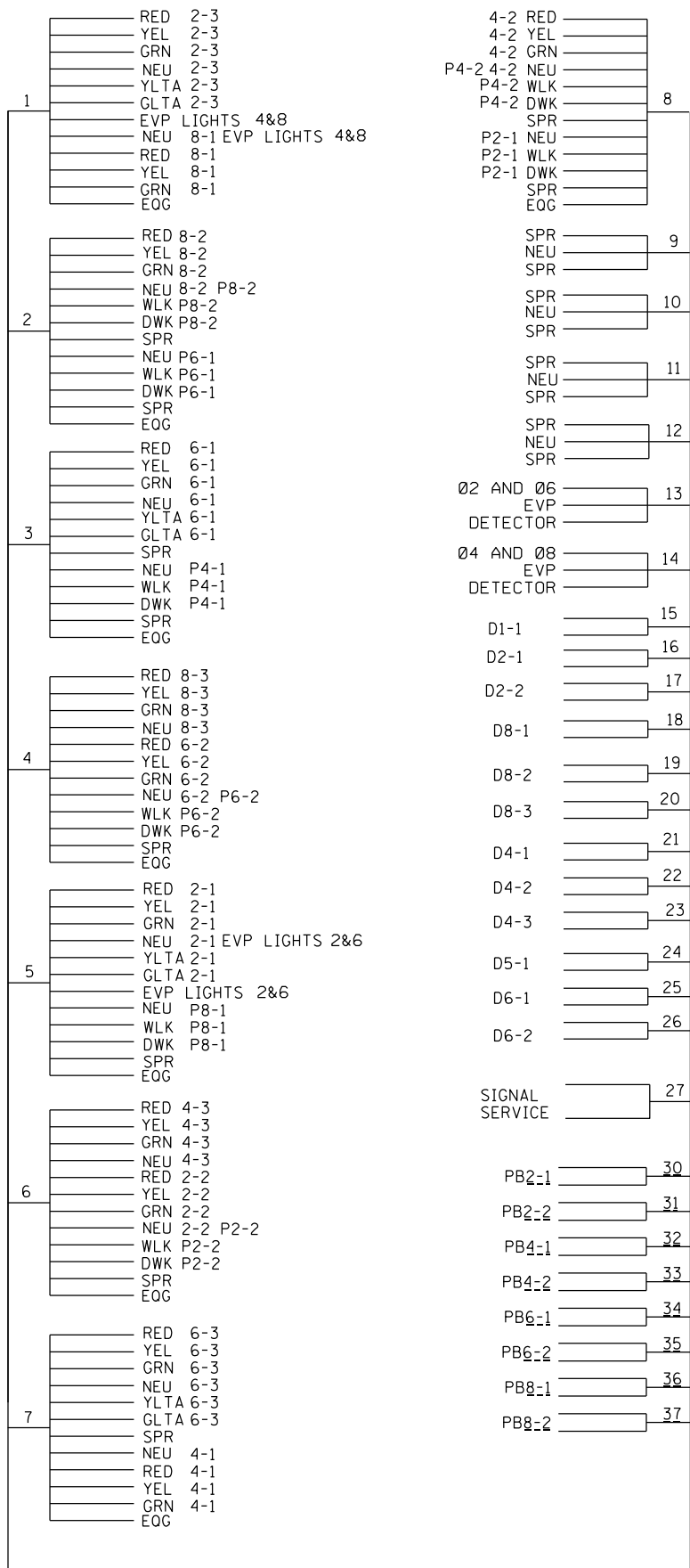
INTERSECTION NOTES & MATCHLINES
TH 5 AT S JCT TH 120 AT CSAH 6
(STILLWATER BLVD) IN MAPLEWOOD, RAMSEY COUNTY
& OAKDALE, WASHINGTON COUNTY

S.A.P. NO. _____ DRAWN BY: SJK CKD BY: BIJ DATE: 04-21-11
CERTIFIED BY: _____ LIC. NO. _____ DATE: _____
STATE PROJ. NO. 8825-393 SHEET NO. 2 OF 3 SHEETS

PLOTTED/REVISED/DATE

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

CONTROLLER CABINET



R	0	R	
O		BL	5/C#12
BL		WH	
WH			
R/BLK			
O/BLK			
BL/BLK		R	
WH/BLK		WH	3/C#12
BLK		BLK	
BLK/WH			
G/BLK		R OR O	3/C#20
G		WH OR YEL	
		BLK OR BL	
		BLK	
		BLK CLEAR	2/C#14

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

BY	DATE	REVISIONS	SYSTEM ID: 21437	T.E.	WIRING DIAGRAM	S.A.P. NO.	DRAWN BY: SJK	CKD BY: BIJ	DATE: 04-21-11
GDS	03-16-12	AS-BUILT OF SP 8825-393 APS	METER ADDRESS: 1125 CENTURY AVE N		TH 5 AT S JCT TH 120 AT CSAH 6	CERTIFIED BY:		LIC. NO.	DATE:
EJA	03-22-16	PLAN UPDATES, NAME CORRECTIONS	MASTER ID:	T.E.	(STILLWATER BLVD) IN MAPLEWOOD, RAMSEY COUNTY & OAKDALE, WASHINGTON COUNTY	LICENSED PROFESSIONAL ENGINEER			
						STATE PROJ. NO.		SHEET NO. 3	OF 3 SHEETS