

PLOTTED/REVISED: 25-AUG-2023

PROJECT: DM_RS050500007\Traffic\Signal\8.84_102\COUNTY RD C2-3779747\3779747.sgl.dgn

DISTRICT #: Metro
IPLOT NAME: T3779747.sgl
PATH & FILENAME: Projects\DM_RS050500007\Traffic\Signal\8.84_102\COUNTY RD C2-3779747\3779747.sgl.dgn

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, 7-3	←	←	←	←
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

PED PB STATION
1-APS PB AND SIGN
(RT ARROW) (PB6-2)
EXTEND INTO HH 3:
1" NOM. DIA. CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

PED PB STATION
1-APS PB AND SIGN
(LT ARROW) (PB4-1)
EXTEND INTO HH 3:
1" NOM. DIA. CONDUIT
1-2/C 14
2-1/C 6 INS. GR.

HH 2 TO HH 3:
3" CONDUIT
2-12/C 14
1-6/C 14
2-4/C 14
* 1-3/C 14
1-3/C 14 LUM
2-2/C 14
* 1-3/C 20
1-CAT 5E VIDEO DET
1-1/C 6 INS. GR.

PED PB STATION
1-APS PB AND SIGN
(LT ARROW) (PB6-1)
EXTEND INTO HH 4:
1" NOM. DIA. CONDUIT
1-2/C 14
2-1/C 6 INS. GR.

PED PB STATION
1-APS PB AND SIGN
(RT ARROW) (PB8-2)
EXTEND INTO HH 4:
1" NOM. DIA. CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

HH 5 TO HH 4:
3" CONDUIT
2-12/C 14
1-6/C 14
* 2-4/C 14
1-3/C 14
* 2-2/C 14
2-2/C 14 (D6-1, D6-2)
1-3/C 20
1-CAT 5E VIDEO DET
1-1/C 6 INS. GR.

HH 5 TO HH 6:
3" CONDUIT
2-12/C 14
1-6/C 14
2-4/C 14
* 1-3/C 14
3-2/C 14
* 2-2/C 14 (D6-1, D6-2)
1-3/C 20
1-CAT 5E VIDEO DET
1-1/C 6 INS. GR.

HH 7 TO HH 6:
3" CONDUIT
2-12/C 14
1-6/C 14
2-4/C 14
* 1-3/C 14
1-3/C 14 LUM
2-2/C 14
2-2/C 14 (D6-1, D6-2)
* 1-3/C 20
1-CAT 5E VIDEO DET
1-1/C 6 INS. GR.

PED PB STATION
1-APS PB AND SIGN
(DBL ARROW) (PB4-3)
(SEE NOTE 7)
EXTEND INTO HH 2:
1" NOM. DIA. 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" NOM. DIA. CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

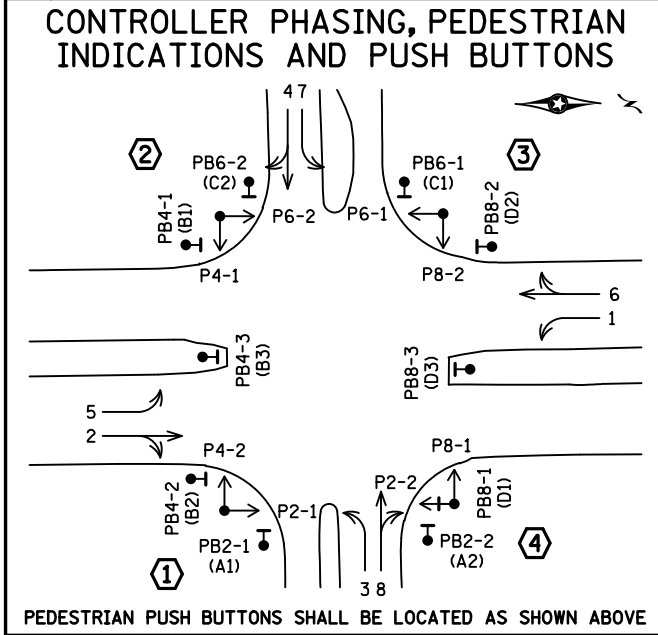
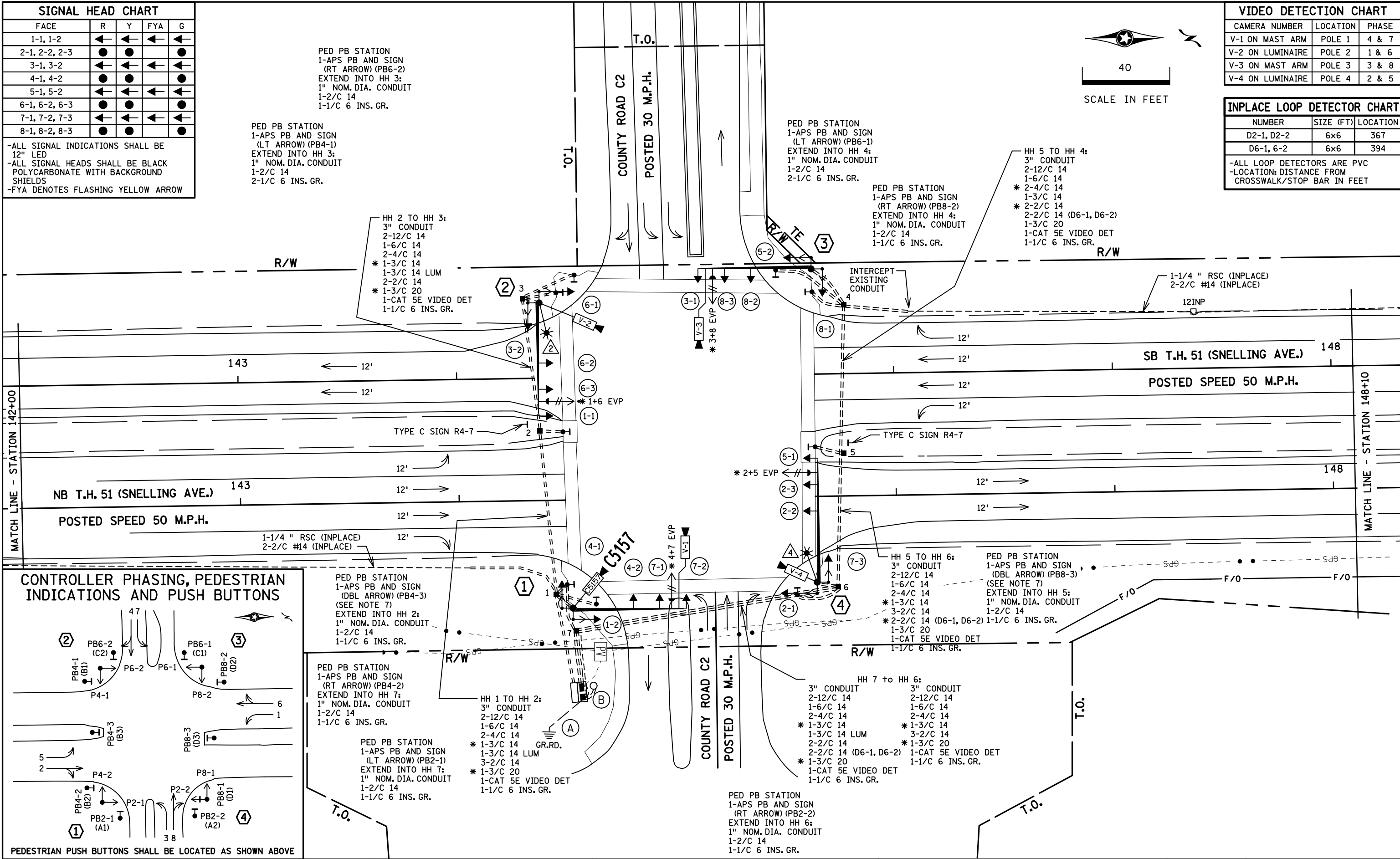
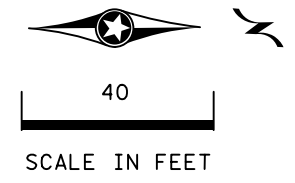
PED PB STATION
1-APS PB AND SIGN
(LT ARROW) (PB2-1)
EXTEND INTO HH 7:
1" NOM. DIA. CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

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

VIDEO DETECTION CHART		
CAMERA NUMBER	LOCATION	PHASE
V-1 ON MAST ARM	POLE 1	4 & 7
V-2 ON LUMINAIRE	POLE 2	1 & 6
V-3 ON MAST ARM	POLE 3	3 & 8
V-4 ON LUMINAIRE	POLE 4	2 & 5

INPLACE LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D2-1, D2-2	6x6	367
D6-1, 6-2	6x6	394

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



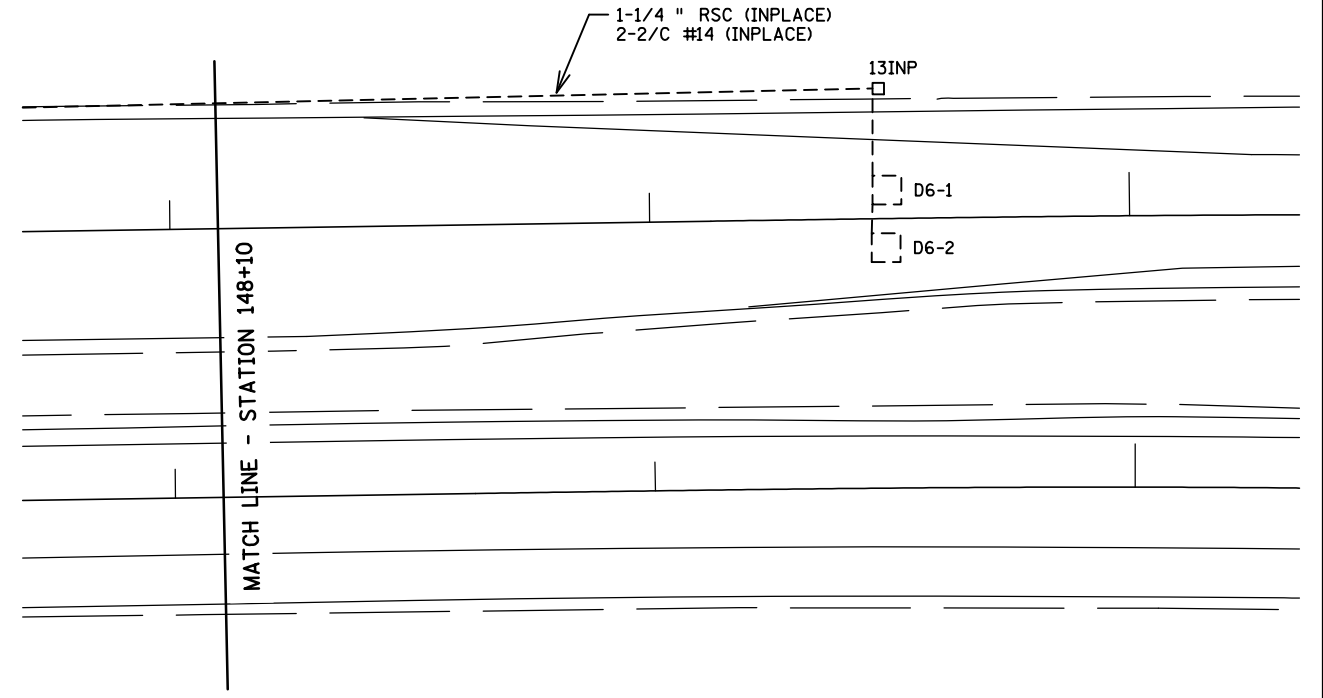
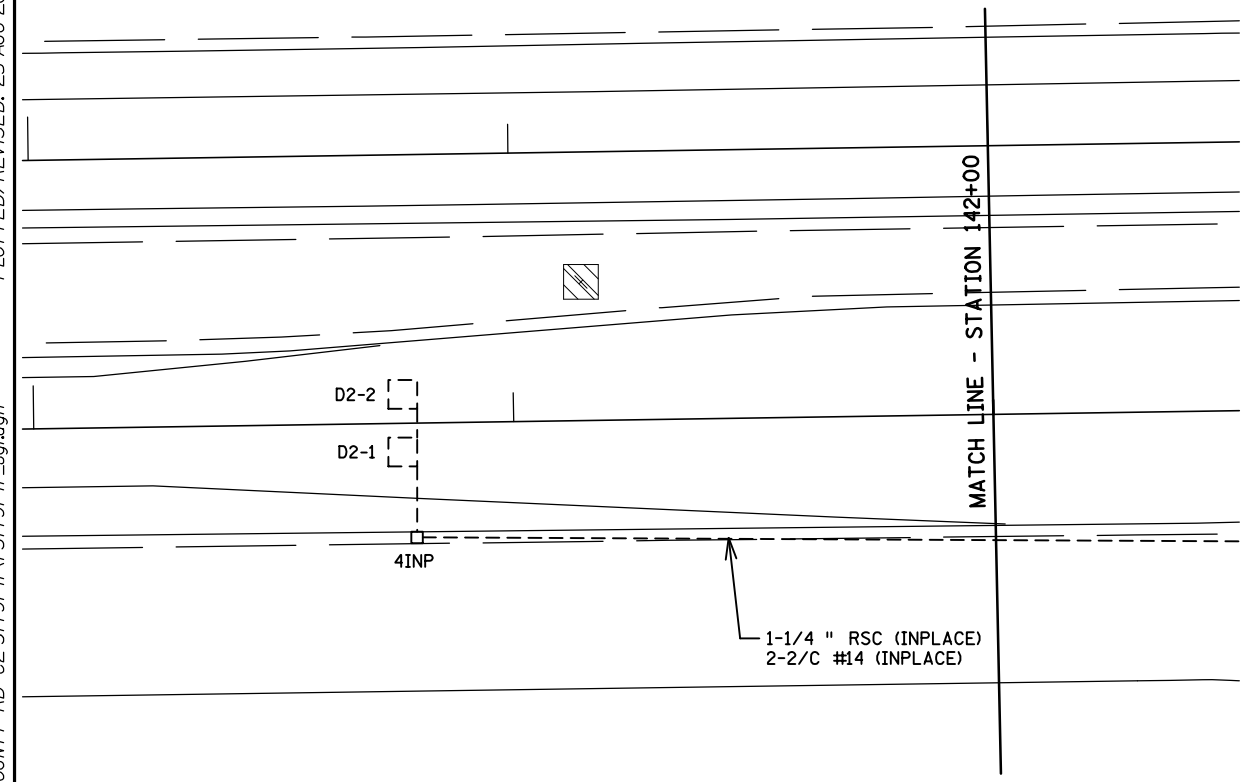
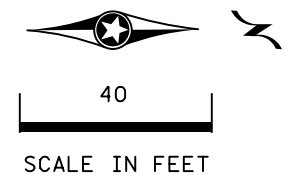
BY	DATE	REVISIONS
SJK	08/25/23	ADDED BATTERY BACKUP

SYSTEM ID: 3779747	T.E. 16724
METER ADDRESS: 1584 CO RD C2 W	
OLD SYSTEM ID: 20743	

INTERSECTION LAYOUT
TRAFFIC CONTROL SIGNAL SYSTEM B
T.H. 51 (SNELLING AVE.) AT CO RD C2
IN ROSEVILLE, RAMSEY COUNTY

S.A.P. NO. 160-010-008	DRAWN BY: GDS	CKD BY: BPV	DATE: 09-30-19
CERTIFIED BY _____	LIC. NO. 40444	DATE: 4-29-21	
STATE PROJ. NO. 6216-138 (T.H.51)		SHEET NO. 1 OF 4 SHEETS	

DISTRICT *: Metro
 PLOT NAME: T3779747.sgl
 PATH & FILENAME: Projects\DM_R05\05\0000\Traffic\Signals\8.B4_IC2\COUNTY RD C2-3779747\T3779747.sgl.dgn
 PLOTTED/REVISED: 25-AUG-2023



BY	DATE	REVISIONS	SYSTEM ID: 3779747	T.E. 16724	S.A.P. NO. 160-010-008	DRAWN BY:GDS	CKD BY:BPV	DATE:09-30-19
SJK	08/25/23	ADDED BATTERY BACKUP	METER ADDRESS: 1584 CO RD C2 W		CERTIFIED BY _____	LIC. NO. 40444	DATE: 4-29-21	
			OLD SYSTEM ID: 20743		STATE PROJ.NO. 6216-138 (T.H.51)		SHEET NO. 2 OF 4 SHEETS	

MATCHLINE LAYOUT
TRAFFIC CONTROL SIGNAL SYSTEM B
T.H. 51 (SNELLING AVE.) AT CO RD C2
IN ROSEVILLE, RAMSEY COUNTY

DISTRICT *: Metro
 PLOT NAME: T3779747.sgl
 PATH & FILENAME: Projects\DM_R05\05\0000\Traffic\Signals\8.B4_IC2\COUNTY RD C2-3779747\3779747.sgl.dgn

② PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
 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 (V-2)
 MOUNTED ON LUMINAIRE (STATE FURNISHED)
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-3) (COUNTY C2)
 3" CONDUIT TO HH 3:
 2-12/C 14
 1-6/C 14
 2-4/C 14
 1-3/C 14
 1-3/C 14 (LUM)
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

① PA100 POLE FOUNDATION
 TYPE PA100-A-50
**X-400 CAM EXTENSION
 LIGHTNING ROD
 1-TRAFFIC MANAGEMENT
 CAMERA WITH MOUNT**
 1-7/16" GROUNDING BRAID
 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 4+7)
 1-VIDEO DETECTION CAMERA (V-1) MOUNTED
 ON 6' EXTENSION ON MAST ARM
 (STATE FURNISHED)
 1-R10-X12 SIGN ADJACENT TO HEAD (7-2)
 2-TYPE D SIGNS (D-1) (MNS1),
 (D-2) (SNELLING AVE)
 3" CONDUIT TO HH 7:
 2-12/C 14
 2-6/C 14
 2-4/C 14
 1-3/C 14
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.
 1-7/16" GROUNDING BRAID
 TO GROUND ROD IN HH 7
 1-CAT 5E (TRA MGMT CAM)

③ PA100 POLE FOUNDATION
 TYPE PA100-A-50
 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 3+8)
 1-VIDEO DETECTION CAMERA (V-3) MOUNTED
 ON 6' EXTENSION ON MAST ARM
 (STATE FURNISHED)
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 2-TYPE D SIGNS (D-1) (MNS1),
 (D-2) (SNELLING AVE)
 3" CONDUIT TO HH 4:
 2-12/C 14
 1-6/C 14
 2-4/C 14
 1-3/C 14
 1-3/C 14
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

④ PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 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 2+5)
 1-VIDEO DETECTION CAMERA (V-4)
 MOUNTED ON LUMINAIRE (STATE FURNISHED)
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 1-APS POLE MOUNTING ADAPTER
 1-APS PB AND SIGN (LT ARROW) (PB8-1)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-3) (COUNTY C2)
 3" CONDUIT TO HH 6:
 2-12/C 14
 1-6/C 14
 2-4/C 14
 1-3/C 14
 1-3/C 14 (LUM)
 1-2/C 14
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

① EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB) WITH BATTERY BACKUP SYSTEM AND BATTERIES
 CONTROLLER AND CABINET (STATE FURNISHED)
 3" CONDUIT TO HH 1:
 2-12/C 14
 1-6/C 14
 2-4/C 14
 1-3/C 14
 3-2/C 14
 2-2/C 14 (D2-1, D2-2)
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.
 3" CONDUIT TO HH 7:
 2-12/C 14
 1-6/C 14
 2-4/C 14
 1-3/C 14
 3-2/C 14
 2-2/C 14 (D6-1, D6-2)
 1-3/C 20
 1-CAT 5E VIDEO DET
 1-1/C 6 INS. GR.

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 TO INPLACE TMS PULL VAULT:

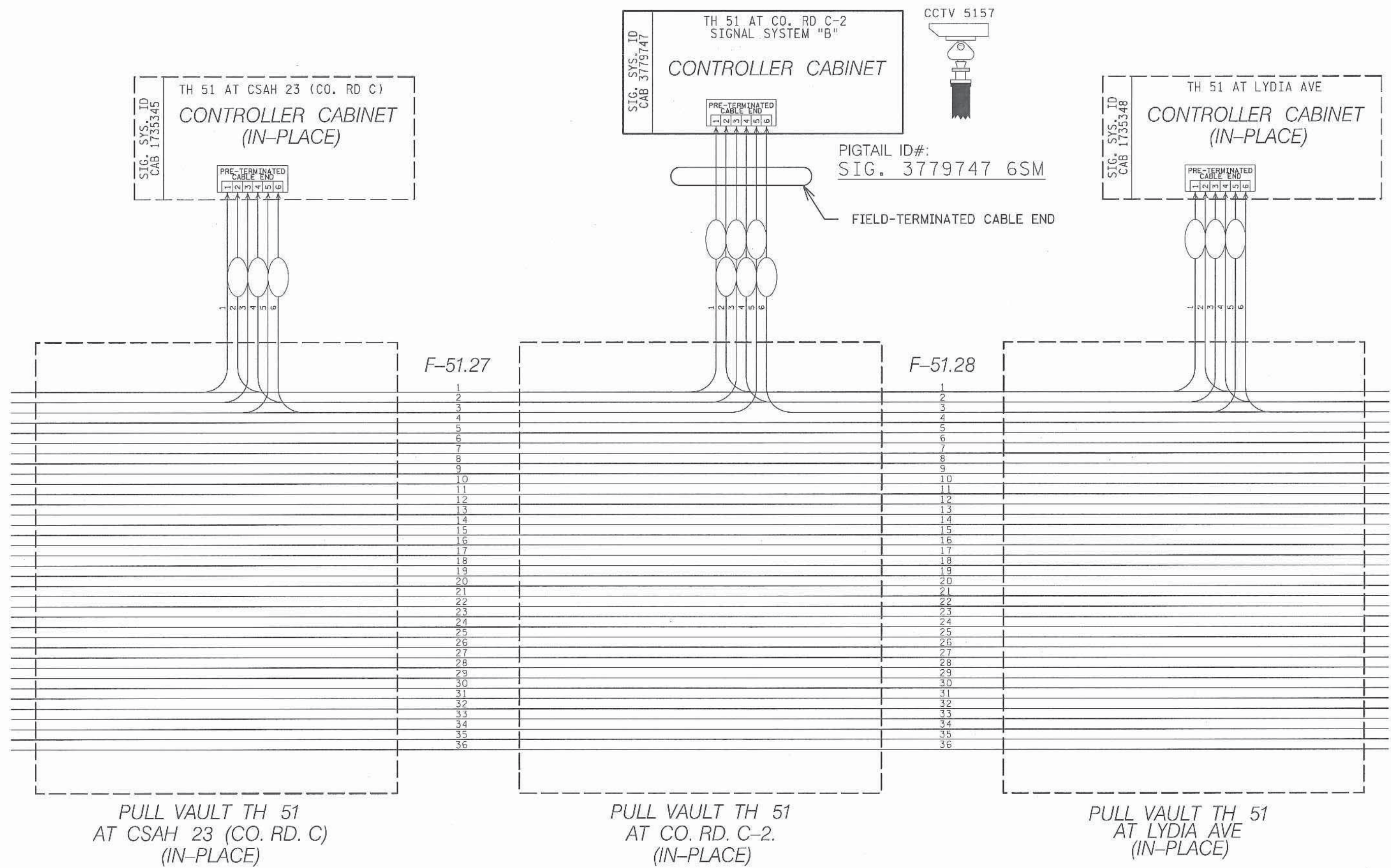
1-FIBER OPTIC CABLE PIGTAIL
 (6-SM FIELD TERMINATED)

CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 3-1/C 6
 SERVICE CABINET TO SOP:
 2" CONDUIT
 3-1/C 2
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C 6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)
 SERVICE CABINET TO HH 7:
 2" CONDUIT
 2-3/C 14 (LUM)
 HH 7 TO HH 1:
 2" CONDUIT
 1-3/C 14 (LUM)

② SOP-INPLACE WOOD POLE
 (XCEL ENERGY)
 2" CONDUIT RISER, WEATHERHEAD
 AND CONDUIT TO SERVICE CABINET:
 3-1/C 2

BY	DATE	REVISIONS	SYSTEM ID: 3779747	T.E. 16724	INTERSECTION NOTES TRAFFIC CONTROL SIGNAL SYSTEM B T.H. 51 (SNELLING AVE.) AT CO RD C2 IN ROSEVILLE, RAMSEY COUNTY	S.A.P. NO. 160-010-008	DRAWN BY:GDS	CKD BY:BPV	DATE:09-30-19
SJK	08/25/23	ADDED BATTERY BACKUP	METER ADDRESS: 1584 CO RD C2 W	OLD SYSTEM ID: 20743		CERTIFIED BY _____	LIC. NO. 40444	DATE: 4-29-21	
						STATE PROJ.NO. 6216-138 (T.H.51)	SHEET NO. 3 OF 4 SHEETS		

DISTRICT #: Metro
 IPLOT NAME: 24 To schematic 2
 PATH & FILENAME: Projects\DM_ROMS\0516216\38\Traffic\Signalis.SP 6216138 SP 6216138 Details.dgn
 PLOTTED/REVISED: 14-OCT-2019



BY	DATE	REVISIONS

FIBER OPTIC SCHEMATIC
 (2 OF 2)

S.A.P. NO. 124-010-002, 160-010-007, 160-010-008 DRAWN BY: J3T CKD BY: BPV DATE: 09-30-19
 CERTIFIED BY: B. P. Vite LIC. NO. 40444 DATE: 10-01-19
LICENSED PROFESSIONAL ENGINEER
 STATE PROJ. NO. 6216-138 (T.H. 51) SHEET NO. 24 OF 52 SHEETS