

VIDEO DETECTOR CHART
(V-1)=VIDEO DETECTION CAMERA

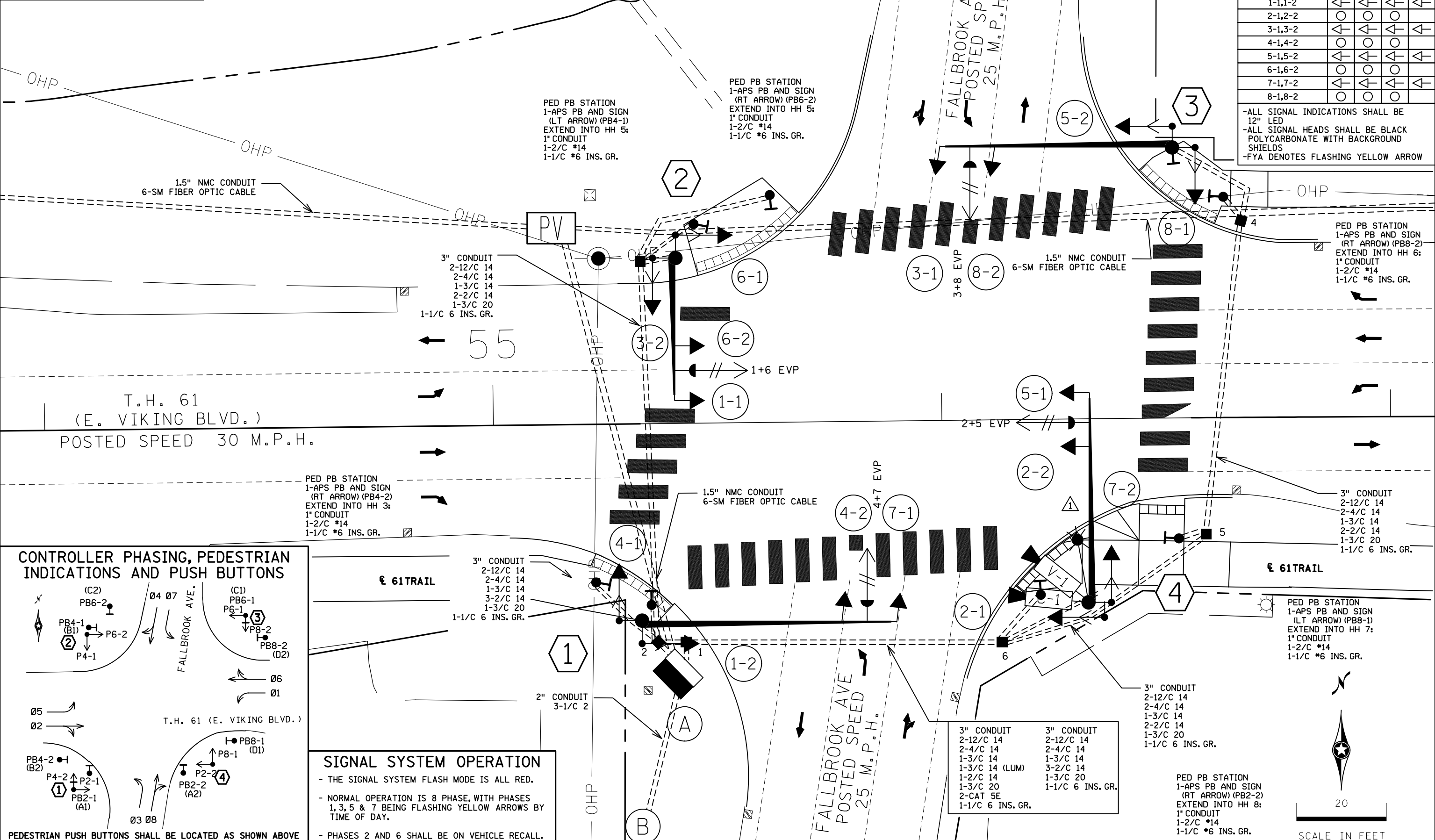
SIGNAL HEAD CHART

FACE	R	Y	G	FYA
1-1,1-2	←	←	←	←
2-1,2-2	○	○	○	○
3-1,3-2	←	←	←	←
4-1,4-2	○	○	○	○
5-1,5-2	←	←	←	←
6-1,6-2	○	○	○	○
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
-FYA DENOTES FLASHING YELLOW ARROW

PLOTTED/REVISED: 16-FEB-2022

DISTRICT #: Metro
I/PLOT NAME: 2638268.sgl
PATH & FILENAME: Projects\DM_ROS\06\0000\Traffic\Signals\6440_Fallbrook Ave-2638268\2638268.sgl.dgn



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS

PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

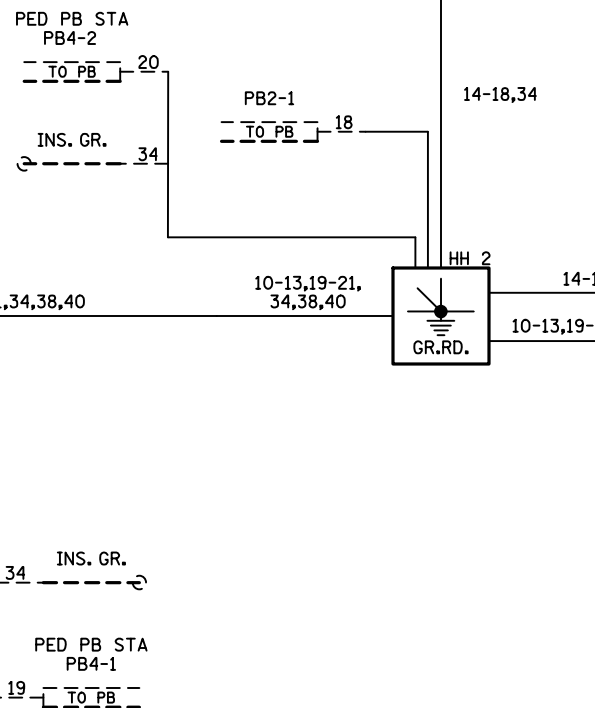
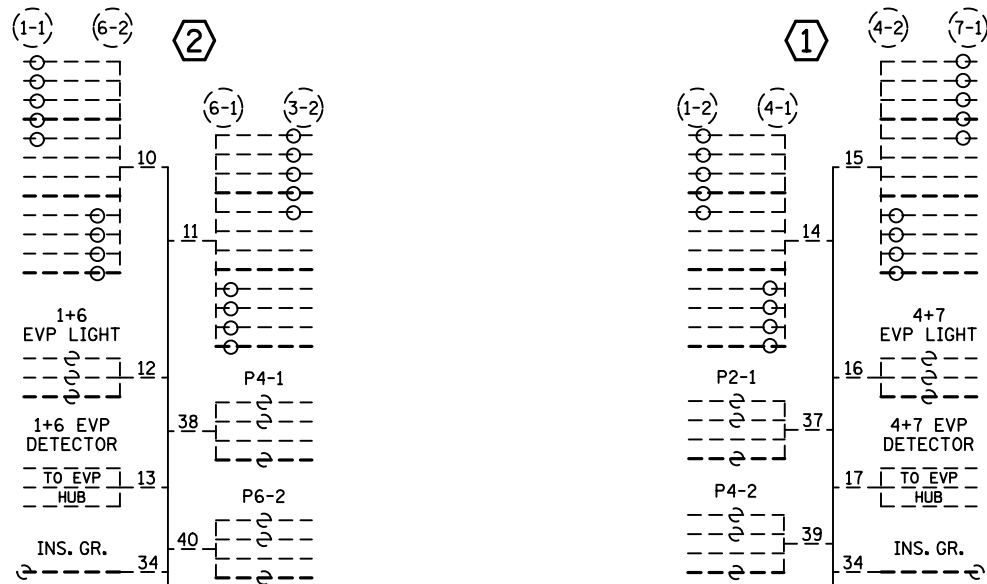
SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5 & 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS	SYSTEM ID: 2638268	T.E. 15111	S.A.P. NO. 248-110-003	DRAWN BY: JAR	CKD BY: GAK	DATE:
HRL	2/16/22	CONSTRUCTION REDLINES FOR SP-1302-23	METER ADDRESS: 5133 E VIKING		CERTIFIED BY: <i>Gregory Ken</i>	LIC. NO. 26829		DATE: 5-18-20
			OLD SYSTEM ID: N/A		STATE PROJ. NO. 1302-23 (T.H.61)		SHEET NO. SS21 OF SS39 SHEETS	

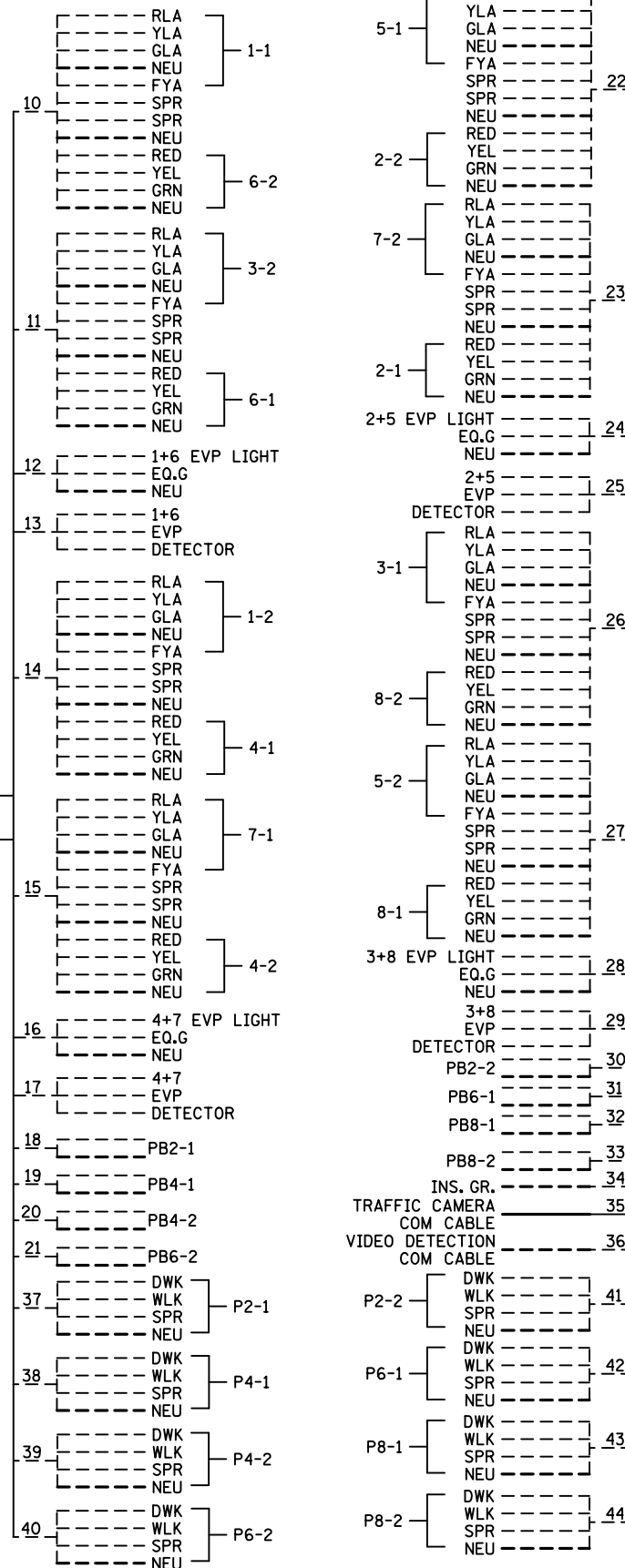
PLOTTED/REVISED: 16-FEB-2022

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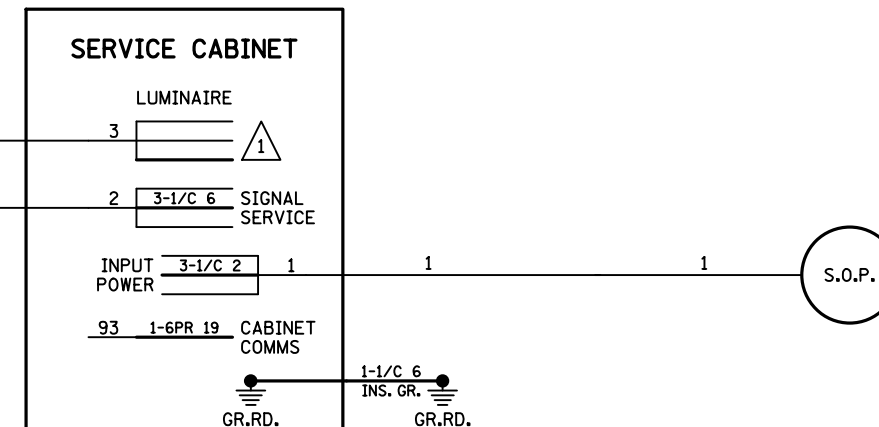
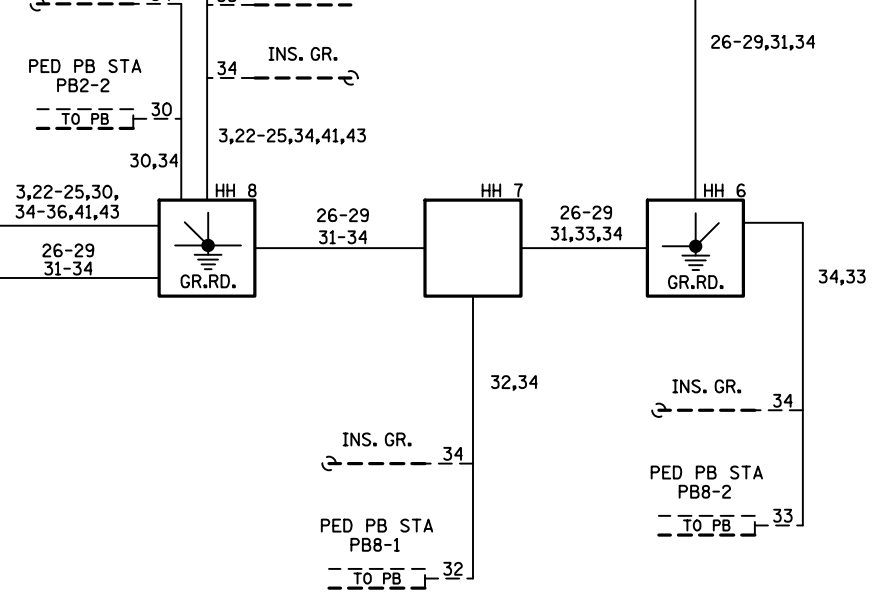
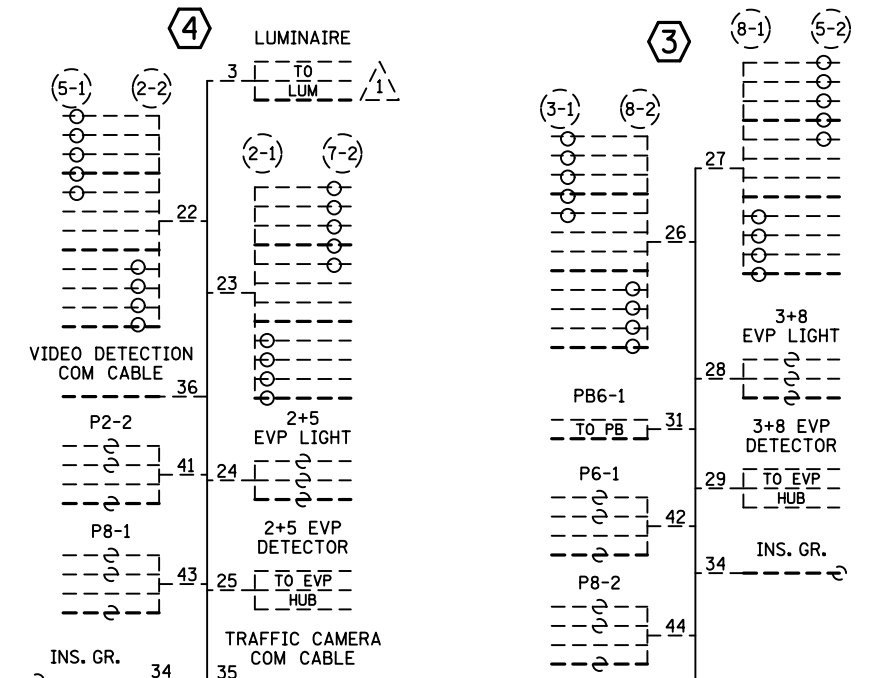


NOTES:
 1. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES).

CONTROLLER CABINET



TO PULL VAULT 1-FO CABLE (6-SM) ← 90
 90 FIBER OPTIC PIGTAIL



BY	DATE	REVISIONS
HRL	2/16/22	CONSTRUCTION REDLINES FOR SP-1302-23

SYSTEM ID: 2638268 T.E. 15111
 METER ADDRESS: 5133 E VIKING
 OLD SYSTEM ID: N/A

**TRAFFIC CONTROL SIGNAL SYSTEM
 FIELD WIRING DIAGRAM
 T.H. 61 (E. VIKING BLVD.) AT FALLBROOK AVE.
 WYOMING, CHISAGO COUNTY**

S.A.P. NO. 248-110-003
 DRAWN BY: JAR CKD BY: GAK DATE:
 CERTIFIED BY *Gregory Ken* LIC. NO. 26829 DATE: 5-18-20
 LICENSED PROFESSIONAL ENGINEER
 STATE PROJ. NO. 1302-23 (T.H.61) SHEET NO. SS23 OF SS39 SHEETS

PLOTTED/REVISED: 16-FEB-2022

DISTRICT *: Metro
IPLOT NAME: 2638268.sgl
PATH & FILENAME: Projects\DM_ROS\06\0000\Traffic\Signals\6440_Fallbrook Ave-2638268\2638268.sgl.dgn

① PA100 POLE FOUNDATION
 TYPE PA100-A-55
 1-PAIR SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 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-APS PB AND SIGN (LT ARROW) (PB2-1)
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-TYPE D SIGN (D-41) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 2:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 1-2/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

② PA90 POLE FOUNDATION
 TYPE PA90-A-30
 1-PAIR SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD
 AT 11'
 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-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-40) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 5:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

③ PA100 POLE FOUNDATION
 TYPE PA100-A-50
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 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-APS PB AND SIGN (LT ARROW) (PB6-1)
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-TYPE D SIGN (D-41) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 6:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 1-2/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

④ PA100 POLE FOUNDATION
 TYPE PA100-A-45
 X6-350/CAM 400 EXTENSION
 (MOUNTED AT 350 DEG)
 LIGHTNING ROD
 1-7/16" GROUNDING BRAID
 1-TRAFFIC MANAGEMENT CAMERA (STATE FURNISHED) WITH MOUNT
 1-PAIR SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD
 AT 11'
 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 (STATE FURNISHED)
 MOUNTED ON LUMINAIRE EXTENSION (W/P.O.E. EXTENDER IN
 POLE BASE)
 LUMINAIRE-LED (FOR 40' MOUNTING HEIGHT)
 (MOUNT LUMINAIRE AT 350 DEG)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-40) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 8:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 1-3/C 14 (LUM)
 * 1-3/C 20
 2-CAT 5E (VIDEO DET, TRAFFIC CAMERA)
 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 HH 1:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 1-3/C 14 (LUM)
 1-2/C 14
 * 1-3/C 20
 2-CAT 5E (VIDEO DET AND TRAFFIC CAM)

3" CONDUIT TO HH 2:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 3-2/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

3" CONDUIT TO HH 1:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 3-2/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

3" CONDUIT TO HH 2:
 2-12/C 14
 2-4/C 14
 * 1-3/C 14
 1-2/C 14
 * 1-3/C 20
 1-1/C 6 INS. GR.

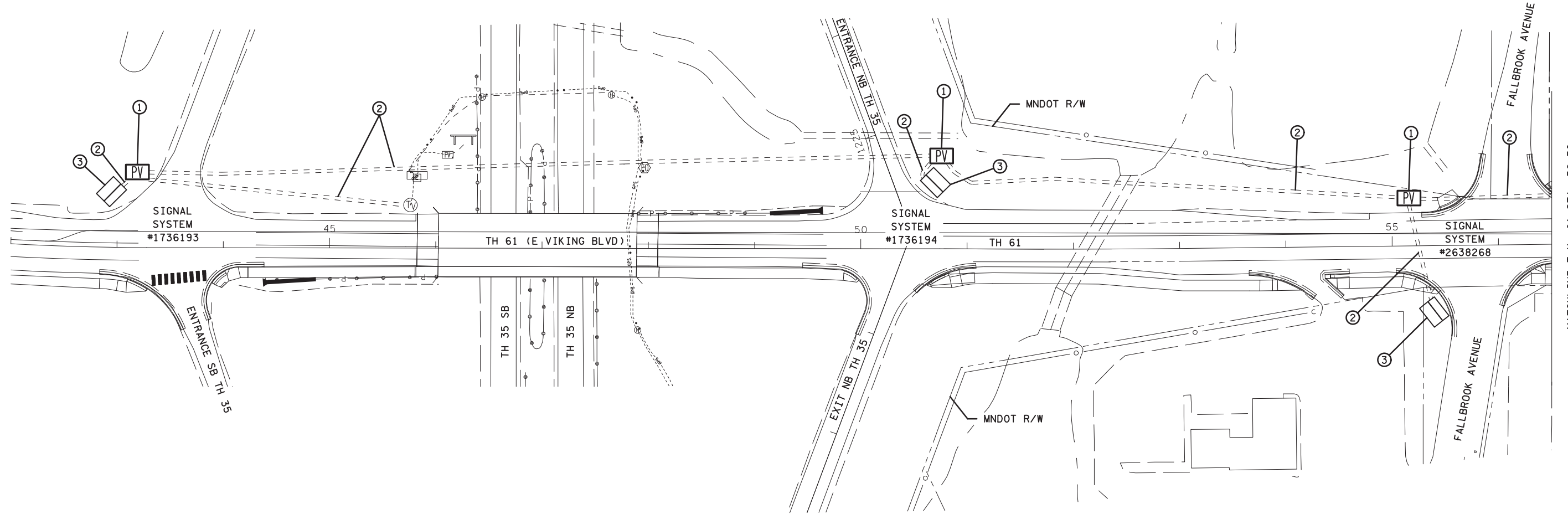
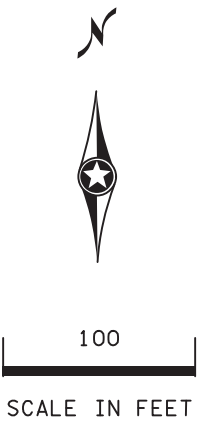
GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD
 2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 1-1/2" CONDUIT TO TMS VAULT:
 **1-FIBER OPTIC CABLE (6-SM)
 **CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 3-1/C 6
 SERVICE CABINET TO SOP VIA HH 4:
 2" CONDUIT
 3-1/C 2
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C 6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 1-3/C 14 (LUM)

Ⓑ SOP-INPLACE WOOD POLE
 (XCEL ENERGY)
 3-1/C 2

BY	DATE	REVISIONS	SYSTEM ID: 2638268	T.E. 15111	TRAFFIC CONTROL SIGNAL SYSTEM INTERSECTION NOTES T.H. 61 (E. VIKING BLVD.) AT FALLBROOK AVE. WYOMING, CHISAGO COUNTY	S.A.P. NO. 248-110-003	DRAWN BY: JAR	CKD BY: GAK	DATE:
HR	2/16/22	CONSTRUCTION REDLINES FOR SP-1302-23	METER ADDRESS: 5133 E VIKING	OLD SYSTEM ID: N/A		CERTIFIED BY: <i>Gregory Ken</i> LICENSED PROFESSIONAL ENGINEER	LIC. NO. 26829	DATE: 5-18-20	STATE PROJ. NO. 1302-23 (T.H. 61) SHEET NO. SS22 OF SS39 SHEETS

PLOTTED/REVISED: 12-JUN-2020

DISTRICT #: Metro
 IPLOT NAME: fiber_plan
 PATH & FILENAME: Projects\DM罗斯06\302\023\Traffic\Signal\fiber-plan.dgn



MATCHLINE T.H. 61 STA. 56+50

GENERAL NOTES:

1. CONSTRUCTION OF THE FIBER OPTIC INTERCONNECTION IS PROPOSED (LOCATED) TO NOT IMPACT ANY EXISTING UTILITIES.
2. THE CONTRACTOR SHALL CALL GOPHER STATE ONE CALL FOR UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION.
3. AFTER THE UTILITIES ARE FIELD LOCATED/MARKED THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE AVOIDS THE EXISTING UTILITIES. IF NEEDED, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER TO CHANGE THE LOCATION OF THE PROPOSED FIBER OPTIC CABLE TO AVOID EXISTING UTILITIES.

SPECIFIC NOTES:

- ① F&I: FIBER PULL VAULT. F&I OUTDOOR FIBER SPLICE ENCLOSURE, F&I FO CABLE SPLICING. COIL 70' OF ADDITIONAL LENGTH OF FIBER (6-SM) IN VAULT. LOCATE THE VAULT SO THAT IT WILL BE LEAST LIKELY TO BE IMPACTED BY FUTURE INTERSECTION CONSTRUCTION WORK.
- ② F&I: 1.5" NMC CONDUIT BORED WITH (1) 6-SM FIBER OPTIC CABLE.
- ③ SEE SIGNAL PLAN FOR SIGNAL CABINET NOTES.
F&I 1-FO FIELD TERMINATED PIGTAIL.

BY	DATE	REVISIONS

**TRAFFIC CONTROL INTERCONNECTION
(FIBER OPTIC)**

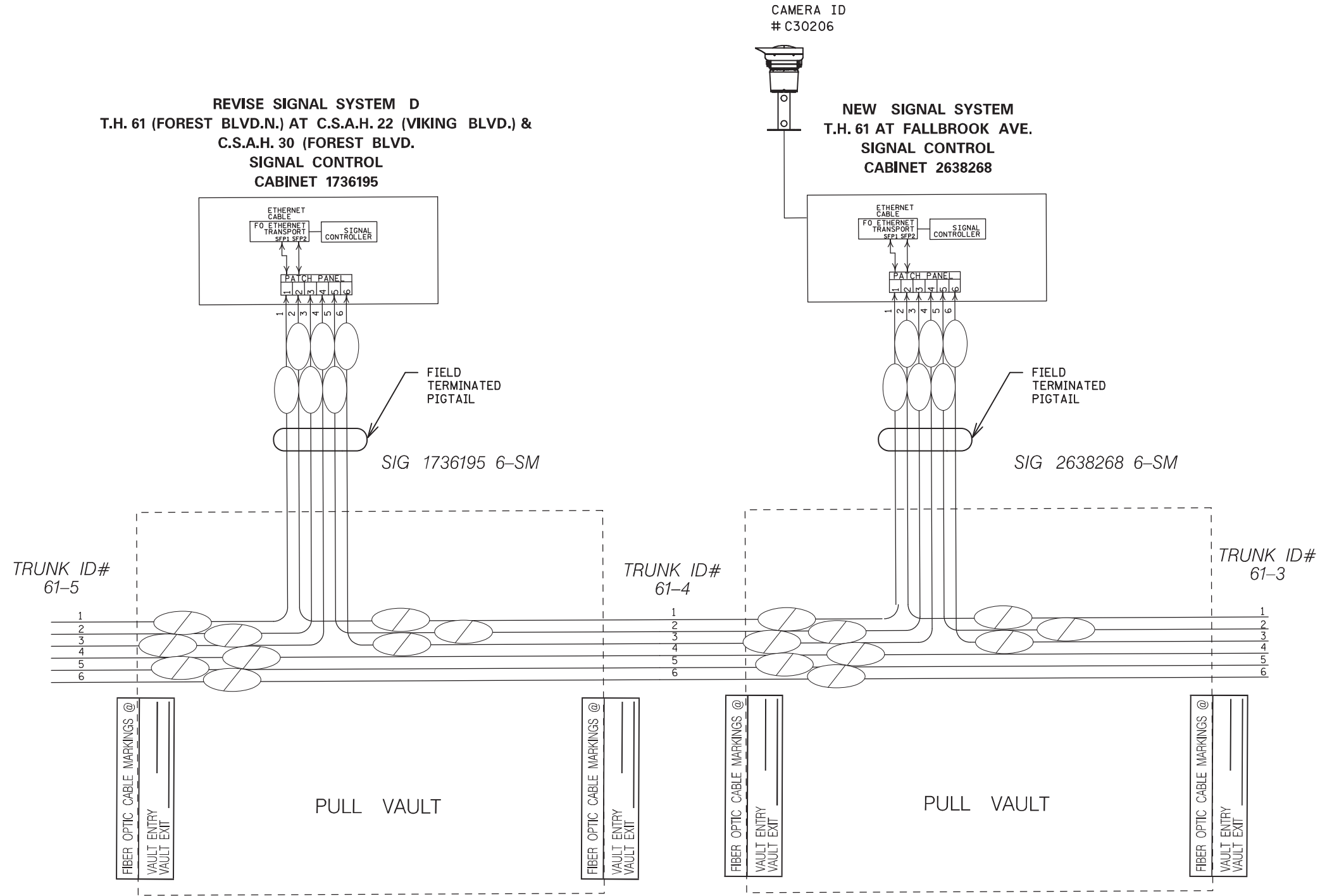
S.A.P. NO. 248-110-003	DRAWN BY: JDC	CKD BY: GAK	DATE:
CERTIFIED BY <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 5-18-20	
STATE PROJ. NO. 1302-23 (T.H.61)		SHEET NO. SS20 OF SS39 SHEETS	

FIBER OPTIC SCHEMATIC (FOR SIGNAL COMMUNICATIONS)

**REVISE SIGNAL SYSTEM D
T.H. 61 (FOREST BLVD.N.) AT C.S.A.H. 22 (VIKING BLVD.) &
C.S.A.H. 30 (FOREST BLVD.)
SIGNAL CONTROL
CABINET 1736195**

**NEW SIGNAL SYSTEM
T.H. 61 AT FALLBROOK AVE.
SIGNAL CONTROL
CABINET 2638268**

CAMERA ID
C30206



PLOTTED/REVISED: 12-JUN-2020

DISTRICT #: Metro
PLOT NAME: 013
PATH & FILENAME: Projects\DM_POS\06\1302\023\Traffic\Signal\T1302-23.dgn

BY	DATE	REVISIONS	SYSTEM ID: XXXXX	T.E. XXXX	S.A.P. NO. 248-110-003	DRAWN BY: JAR	CKD BY: GAK	DATE:
			METER ADDRESS: 9999 GRAND AVE.		FIBER OPTIC SCHEMATIC TRAFFIC CONTROL SIGNAL SYSTEMS T.H. 61 (E. VIKING BLVD.) IN WYOMING, CHISAGO COUNTY	CERTIFIED BY LIC. NO. 26829		DATE: 5-18-20
			OLD SYSTEM ID:		STATE PROJ. NO. 1302-23 (T.H.61)		SHEET NO. SS13 OF SS39 SHEETS	