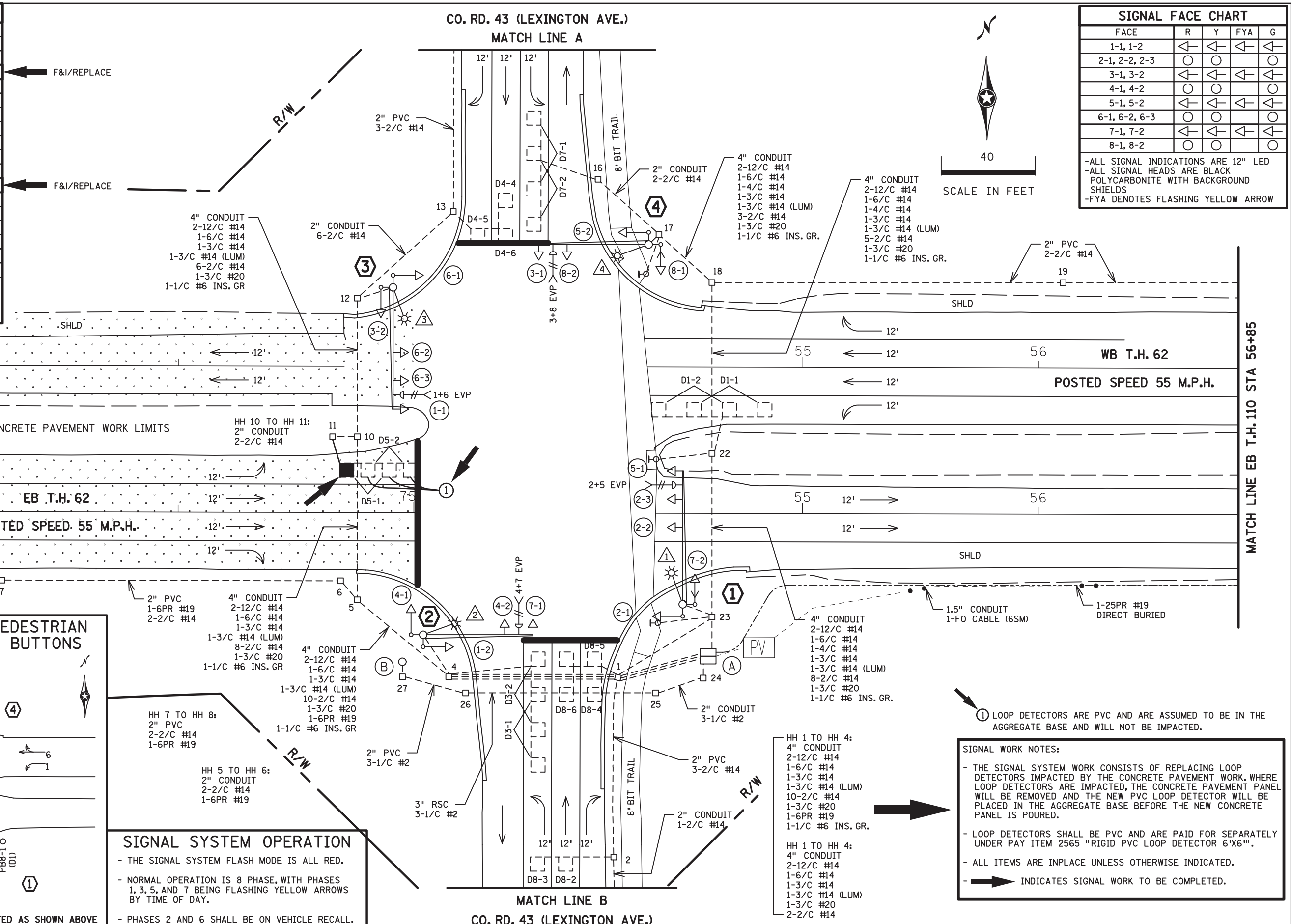


DISTRICT #: Metro
 PLOT NAME: b6
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43)\Lexington Ave\173566\PEND\ING\T21417_sgl2.dwg PLOTTED/REVISED: 16-MAR-2023

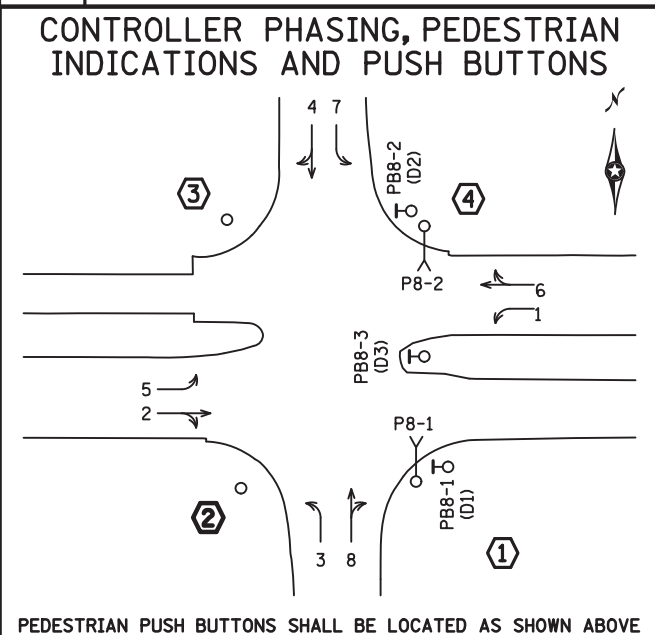
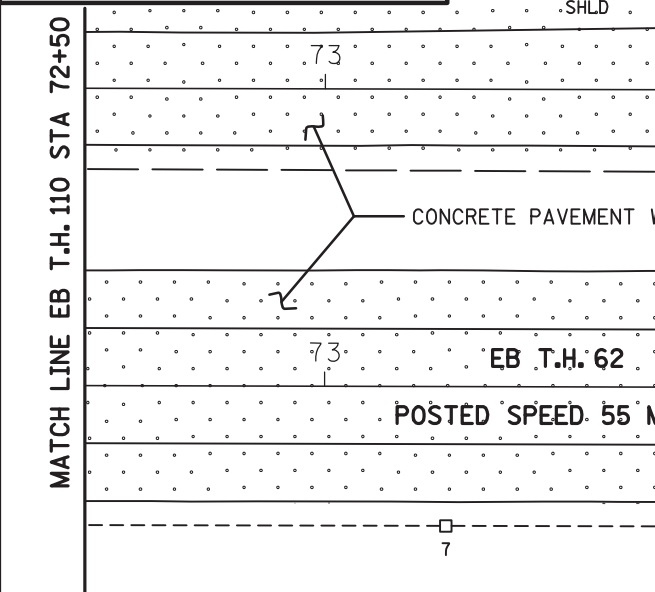
LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1	2-6x6	15 & 45	PVC
D1-2	2-6x6	0 & 30	PVC
D2-1, D2-2	6x6	482	SAW
D3-1, D7-1	2-6x6	20 & 50	PVC
D3-2, D7-2	2-6x6	5 & 35	PVC
D4-1	6x6	200	PVC
D4-2, D4-3	6x6	109	PVC
D4-4	6x6	20	PVC
D4-5, D4-6	6x6	0	PVC
D5-1	6x6	9	PVC
D5-1	6x6	27	SAW
D5-2	2-6x6	0 & 18	PVC
D6-1, D6-2	6x6	480	PVC
D8-1	6x6	232	PVC
D8-2, D8-3	6x6	92	PVC
D8-4, D8-5	6x6	20 & 5	PVC
D8-6	2-6x6	5 & 20	PVC

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



SIGNAL FACE 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 ARE 12" LED
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW



SIGNAL SYSTEM OPERATION

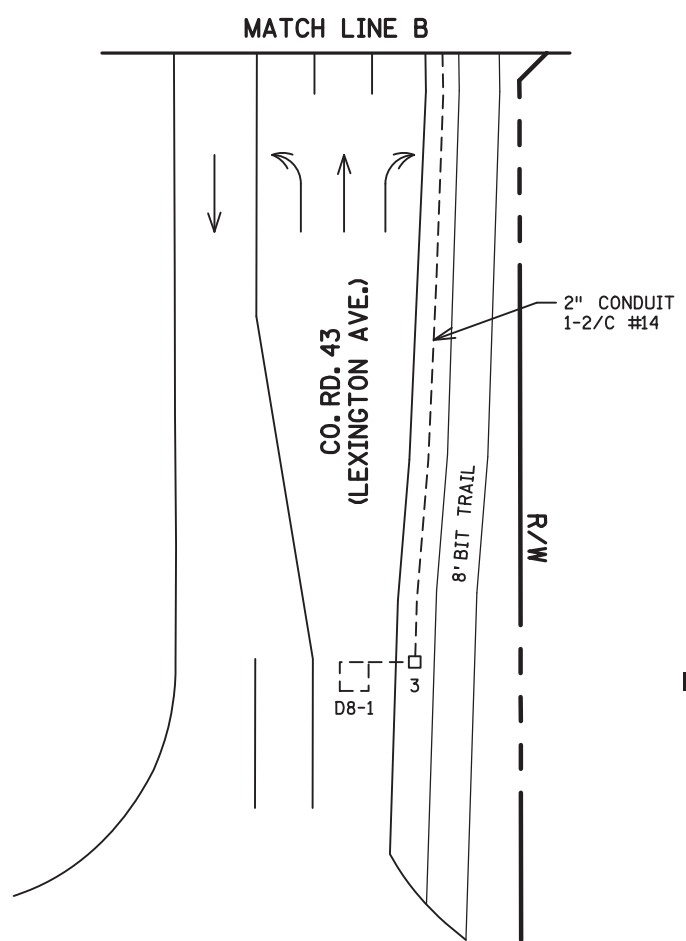
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

SIGNAL WORK NOTES:

- THE SIGNAL SYSTEM WORK CONSISTS OF REPLACING LOOP DETECTORS IMPACTED BY THE CONCRETE PAVEMENT WORK. WHERE LOOP DETECTORS ARE IMPACTED, THE CONCRETE PAVEMENT PANEL WILL BE REMOVED AND THE NEW PVC LOOP DETECTOR WILL BE PLACED IN THE AGGREGATE BASE BEFORE THE NEW CONCRETE PANEL IS POURED.
- LOOP DETECTORS SHALL BE PVC AND ARE PAID FOR SEPARATELY UNDER PAY ITEM 2565 "RIGID PVC LOOP DETECTOR 6'X6'".
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- → INDICATES SIGNAL WORK TO BE COMPLETED.

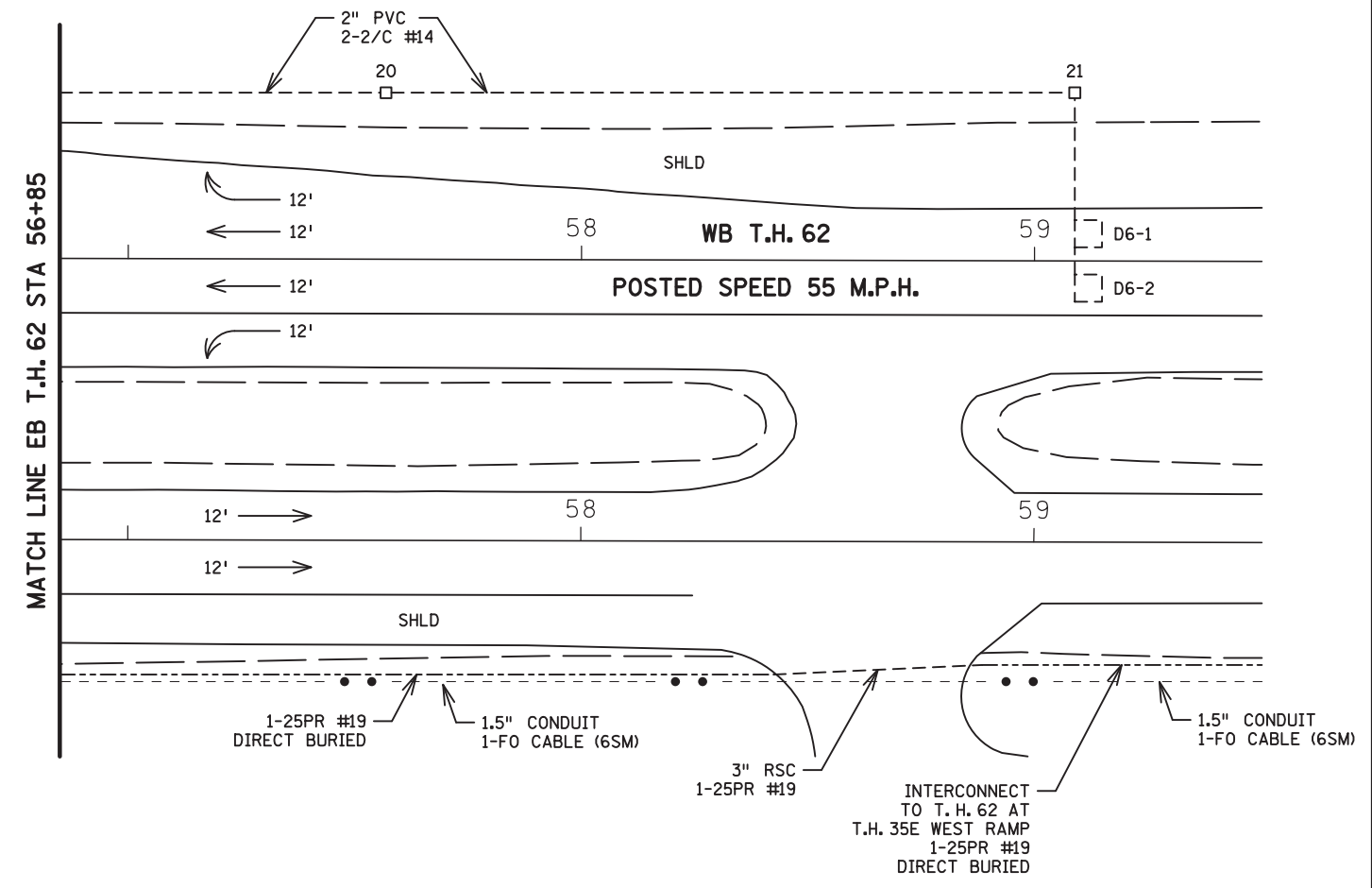
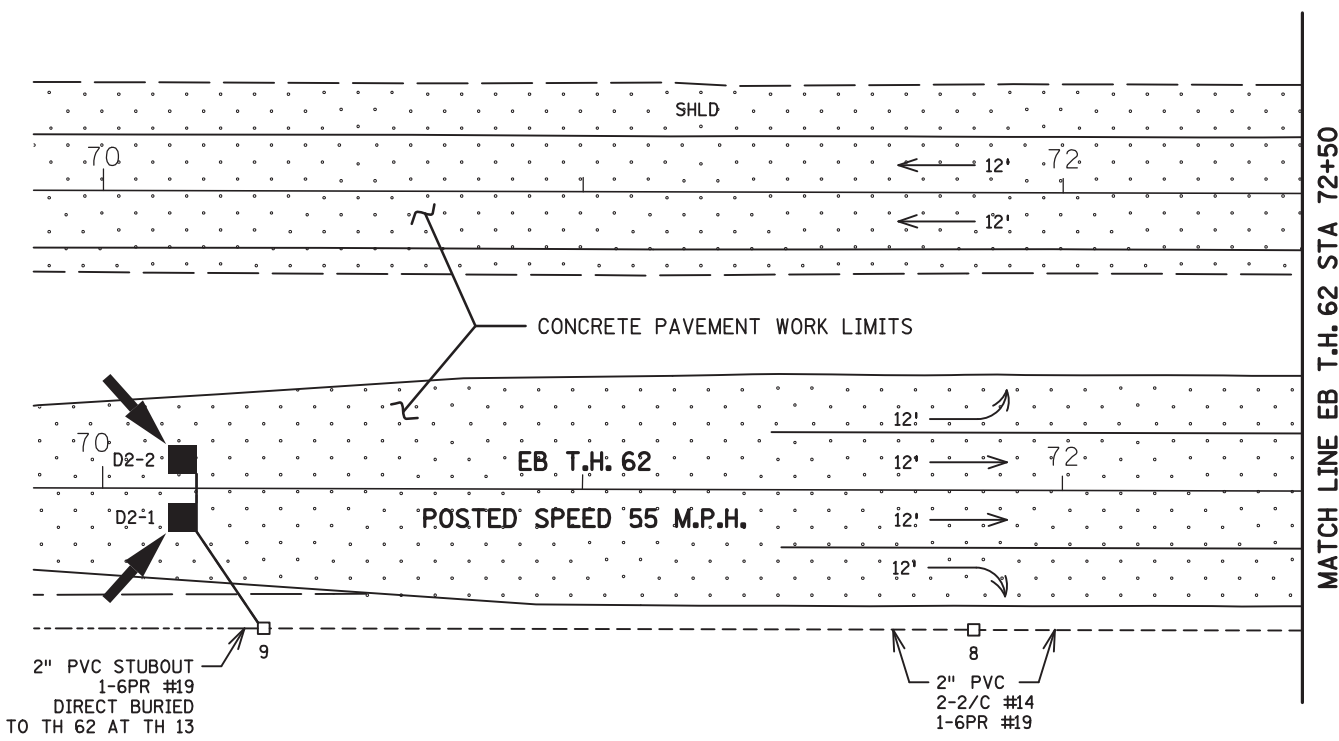
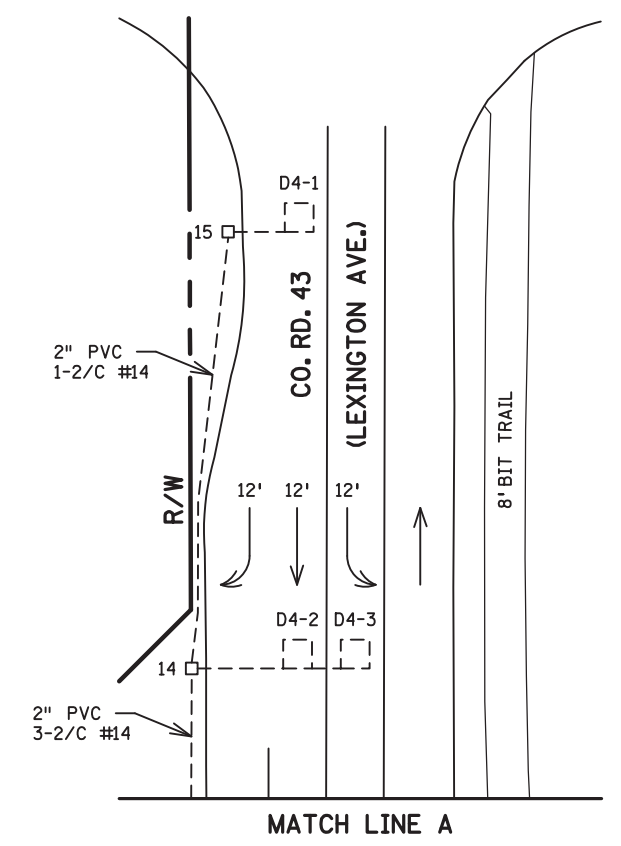
BY: SJK	DATE: 01/15/19	OPERATION PLAN (UPDATED TO TH 62)	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY: HRL	CKD BY: CDB	DATE: 3/15/23
INTERSECTION LAYOUT			METER ADDRESS: 2006 LEXINGTON AVE			CERTIFIED BY: <i>Gregory Ken</i> LIC. NO. 26829 DATE: 3/16/23		
T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)			OLD SYSTEM ID: 21417			STATE PROJ. NO. 1918-119 (T.H.62) SHEET NO. SS7 OF SS11 SHEETS		
IN MENDOTA HEIGHTS, HENNEPIN COUNTY								

DISTRICT #: Metro
 IPLOT NAME: b7
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\173566\APENDING\T21417_sgl2.dwg PLOTTED/REVISED: 10-APR-2023



SIGNAL WORK NOTES:

- THE SIGNAL SYSTEM WORK CONSISTS OF REPLACING LOOP DETECTORS IMPACTED BY THE CONCRETE PAVEMENT WORK. WHERE LOOP DETECTORS ARE IMPACTED, THE CONCRETE PAVEMENT PANEL WILL BE REMOVED AND THE NEW PVC LOOP DETECTOR WILL BE PLACED IN THE AGGREGATE BASE BEFORE THE NEW CONCRETE PANEL IS POURED.
- LOOP DETECTORS SHALL BE PVC AND ARE PAID FOR SEPARATELY UNDER PAY ITEM 2565 "RIGID PVC LOOP DETECTOR 6'X6'".
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- INDICATES SIGNAL WORK TO BE COMPLETED.



BY	DATE	REVISIONS
SJK	01/15/19	OPERATION PLAN (UPDATED TO TH 62)

SYSTEM ID: 1735661 T.E.
 METER ADDRESS: 2006 LEXINGTON AVE
 OLD SYSTEM ID: 21417

MATCH LINES
T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
IN MENDOTA HEIGHTS, HENNEPIN COUNTY

S.A.P. NO. _____ DRAWN BY: HRL CKD BY: CDB DATE: 3/15/23
 CERTIFIED BY LIC. NO. 26829 DATE: 4/10/23
 STATE PROJ. NO. 1918-119 (T.H.62) SHEET NO. SS8 OF SS11 SHEETS

DISTRICT *: Metro
 I/PLOT NAME: b8
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\173566\PAENDING\T21417_sgl2.dwg PLOTTED/REVISED: 16-MAR-2023

③ 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
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 2 AND 4
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 12:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

④ PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C. D. PED HEAD AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 3
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 17:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (RT ARROW) (PB8-2)
 EXTEND INTO HH 17:
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (DLB ARROW) (PB8-3)
 EXTEND INTO HH 22:
 1" CONDUIT
 1-2/C #14
 2-1/C #6 INS. GR.

② PA100 POLE FOUNDATION
 TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 1 AND 3
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 4:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

① 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
 1-ANGLE MOUNT C. D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 2
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 23:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (LT ARROW) (PB8-1)
 EXTEND INTO HH 23:
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET (STATE FURNISHED)
 4" CONDUIT TO HH 1: 4" CONDUIT TO HH 23:
 2-12/C #14 4-12/C #14
 1-6/C #14 2-6/C #14
 1-3/C #14 2-4/C #14
 10-2/C #14 2-3/C #14
 1-3/C #20 9-2/C #14
 1-6PR #19 2-3/C #20
 1-1/C #6 INS. GR. 1-1/C #6 INS. GR.

4" CONDUIT TO HH 1:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 8-2/C #14
 1-3/C #20

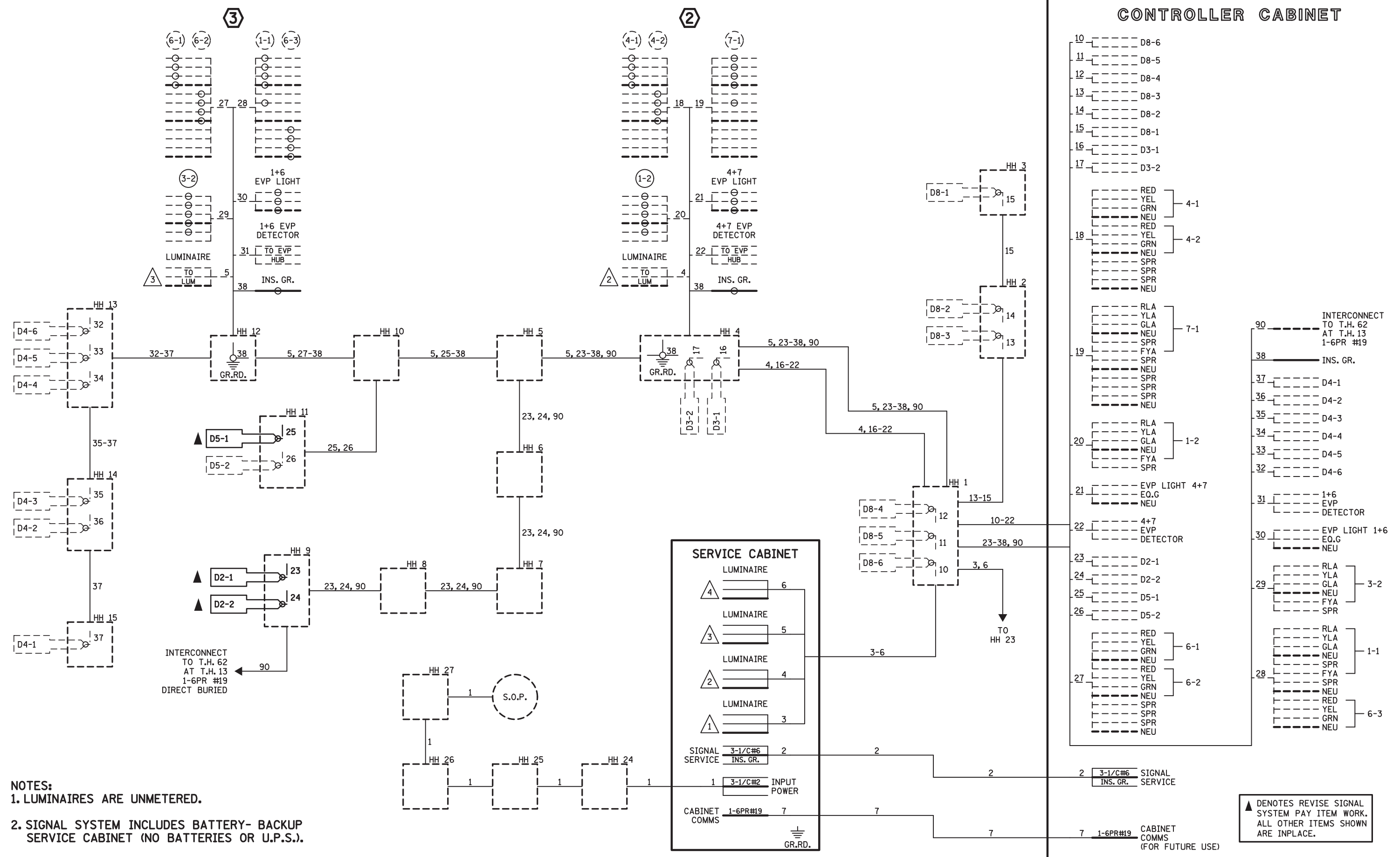
1-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 2" CONDUIT STUBBED OUT (INTERCONNECT TO T. H. 62 AT T.H. 35E WEST RAMP) (SEE NOTE 11):
 1-25PR #19
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT (FOR FUTURE USE)
 1-6PR #19
 SERVICE CABINET TO HH 24:
 2" CONDUIT
 3-1/C #2
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 4-3/C #14 (LUM)
 HH 1 TO HH 23:
 2" CONDUIT
 2-3/C #14 (LUM)
 TO PULL VAULT
 1.5" CONDUIT
 1-FO PIGTAIL (6SM)

Ⓑ SOP-WOOD POLE (BY XCEL ENERGY)
 2" PVC RISER, WEATHERHEAD AND 2" RSC TO HH 27:
 3-1/C #2

NOTE: THERE IS NOT ANY SIGNAL WORK ON THIS SHEET.

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:HRL	CKD BY:CDB	DATE:3/15/23
SJK	01/15/19	OPERATION PLAN (UPDATED TO TH 62)	METER ADDRESS: 2006 LEXINGTON AVE		POLE NOTES T.H. 62 AT CO. RD. 43 (LEXINGTON AVE) IN MENDOTA HEIGHTS, HENNEPIN COUNTY	 <small>LICENSED PROFESSIONAL ENGINEER</small>		DATE: 3/16/23
			OLD SYSTEM ID: 21417			STATE PROJ.NO. 1918-119 (T.H.62)	SHEET NO. SS9 OF SS11 SHEETS	

DISTRICT #: Metro
 PLOT NAME: b9
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traf\Signal\JUL_21\417 (CR 43)\Lexington Ave\173566\PEND\ING\T21417_sgl2.dwg/PLOTTED/REVISED: 16-MAR-2023



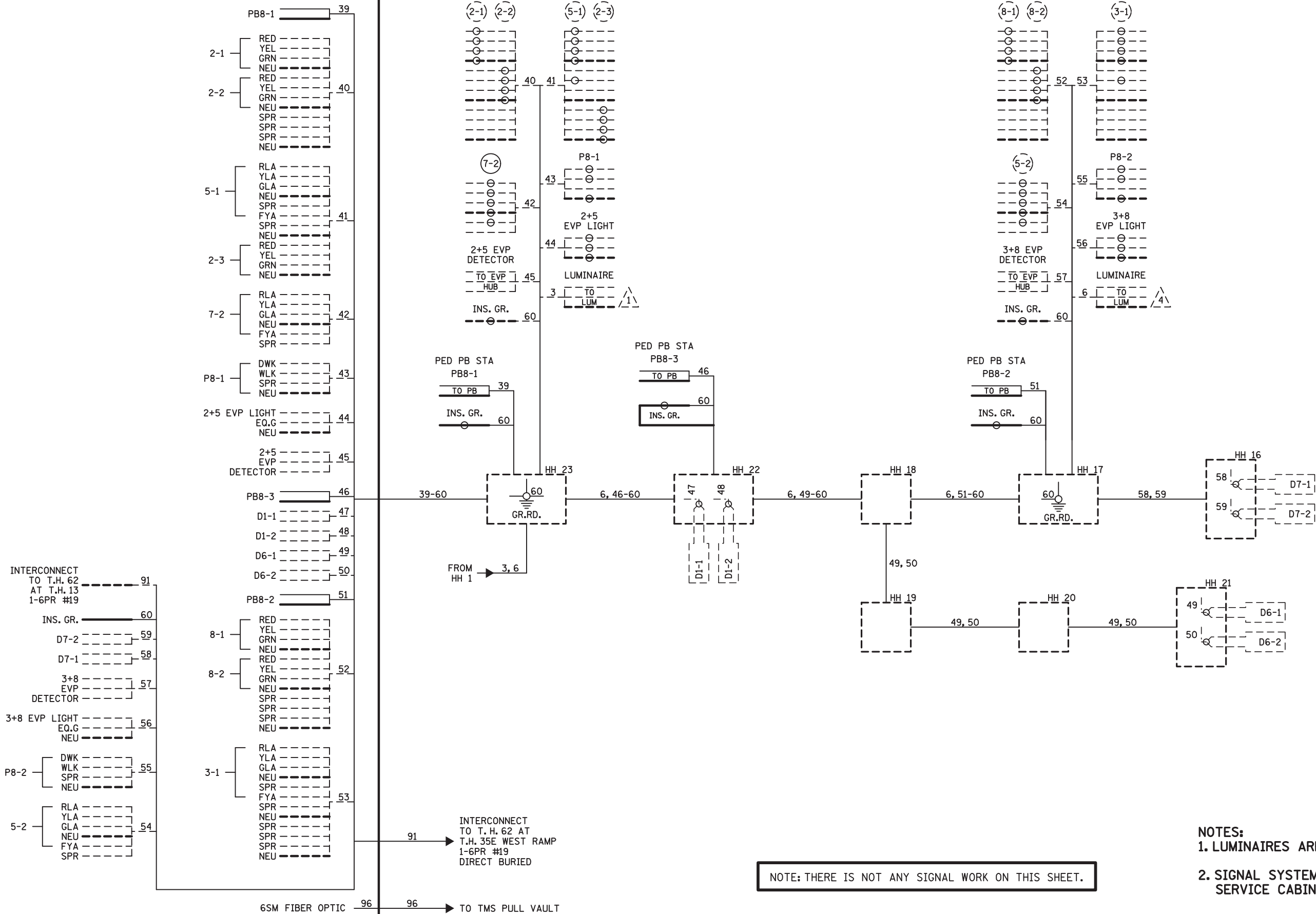
NOTES:

- LUMINAIRES ARE UNMETERED.
- SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:HRL	CKD BY:CDB	DATE:3/15/23
SJK	01/15/19	OPERATION PLAN (UPDATED TO TH 62)	METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 3/16/23	
			OLD SYSTEM ID: 21417		STATE PROJ.NO. 1918-119 (T.H.62)		SHEET NO. SS10 OF SS11 SHEETS	

WIRING DIAGRAM 1 OF 2
T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
IN MENDOTA HEIGHTS, HENNEPIN COUNTY

CONTROLLER CABINET



NOTE: THERE IS NOT ANY SIGNAL WORK ON THIS SHEET.

- NOTES:**
- LUMINAIRES ARE UNMETERED.
 - SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).

DISTRICT #: Metro
 PLOT NAME: b10
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\173566\PEND\ING\T21417_sgl2.dwg\PLOT\T21417_REVISED: 16-MAR-2023

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:HRL	CKD BY:CDB	DATE:3/15/23
SJK	01/15/19	OPERATION PLAN (UPDATED TO TH 62)	METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 3/16/26	
			OLD SYSTEM ID: 21417		STATE PROJ.NO. 1918-119 (T.H.62) SHEET NO. SS11 OF SS11 SHEETS			

WIRING DIAGRAM 2 OF 2
 T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
 IN MENDOTA HEIGHTS, HENNEPIN COUNTY

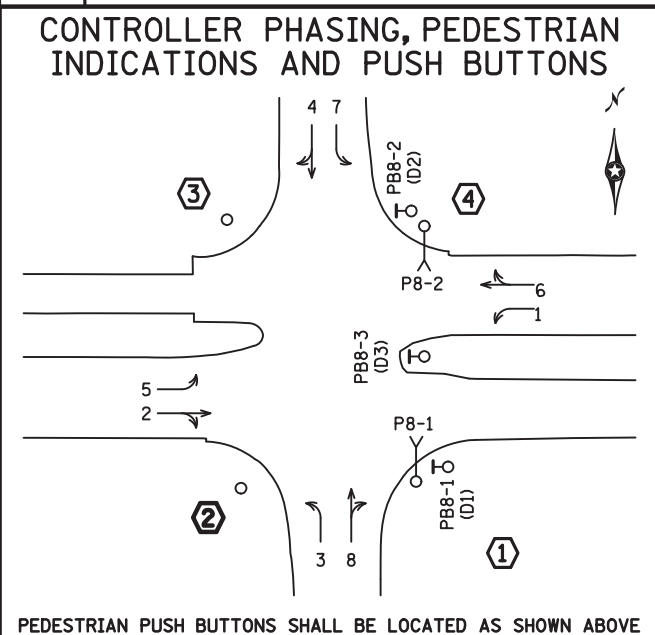
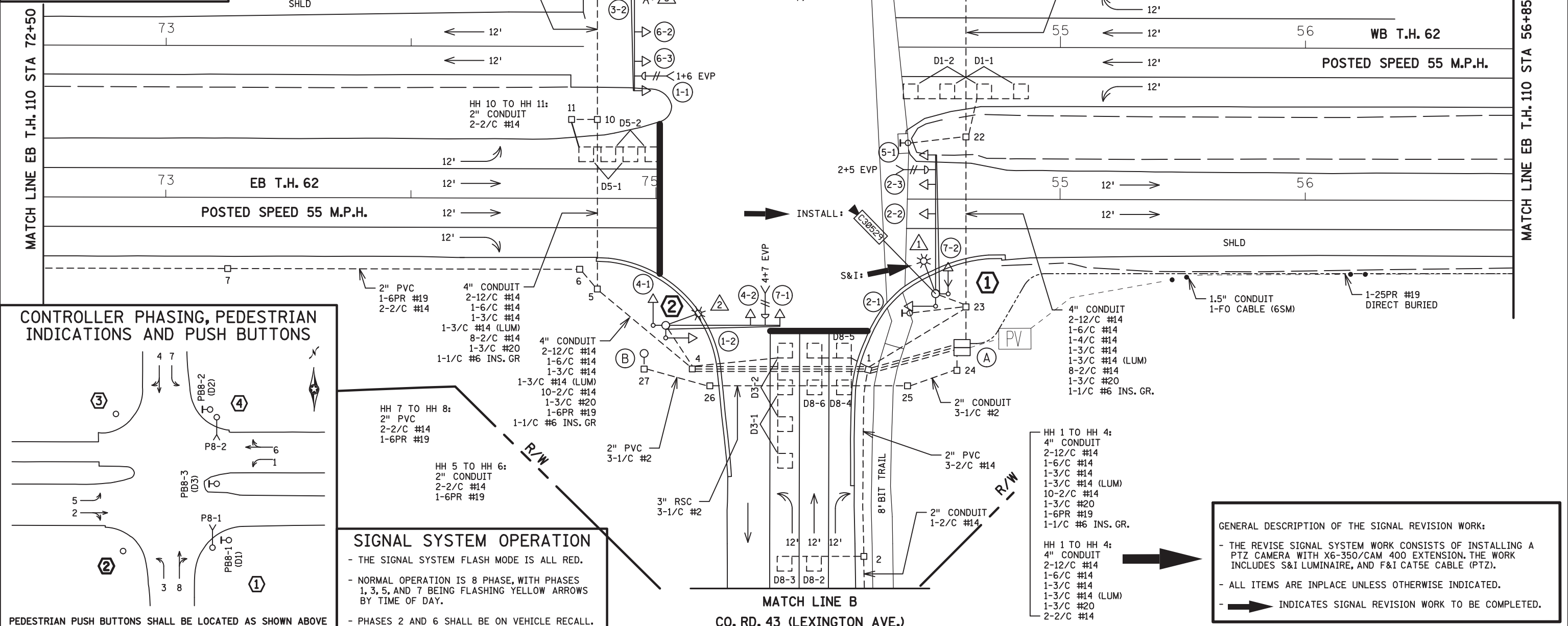
DISTRICT #: Metro
 IPLOT NAME: sheet_62
 PATH & FILENAME: Projects\DM_ROS\062\00007\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\735666\PEND\ING\T\21417_sgl3.dwg PLOTTED/REVISED: 6-APR-2023

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1	2-6x6	15 & 45	PVC
D1-2	2-6x6	0 & 30	PVC
D2-1, D2-2	6x6	482	SAW
D3-1, D7-1	2-6x6	20 & 50	PVC
D3-2, D7-2	2-6x6	5 & 35	PVC
D4-1	6x6	200	PVC
D4-2, D4-3	6x6	109	PVC
D4-4	6x6	20	PVC
D4-5, D4-6	6x6	0	PVC
D5-1	6x6	9	PVC
D5-1	6x6	27	SAW
D5-2	2-6x6	0 & 18	PVC
D6-1, D6-2	6x6	480	PVC
D8-1	6x6	232	PVC
D8-2, D8-3	6x6	92	PVC
D8-4, D8-5	6x6	20 & 5	PVC
D8-6	2-6x6	5 & 20	PVC

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

SIGNAL FACE 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 ARE 12" LED
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW



SIGNAL SYSTEM OPERATION

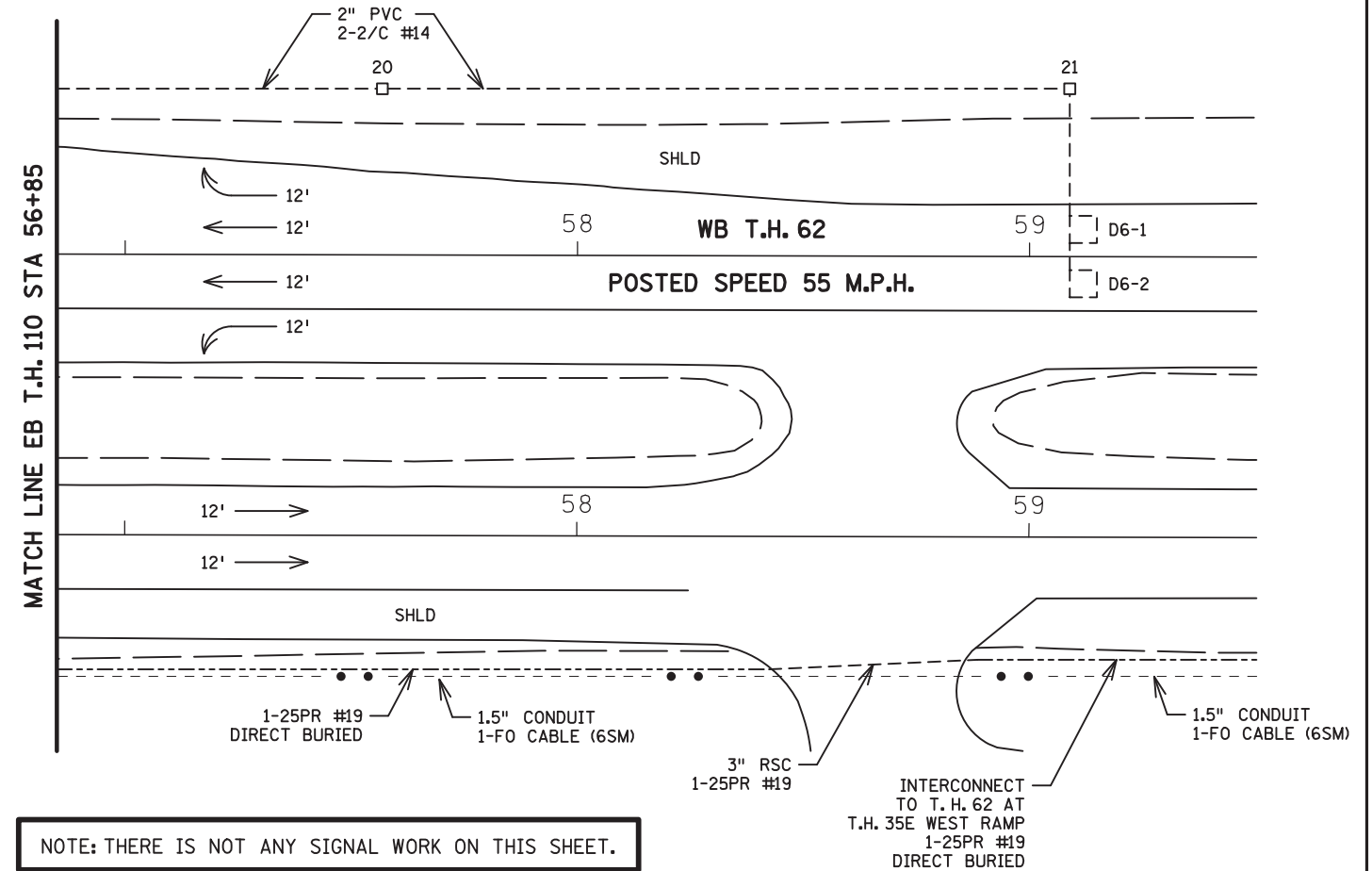
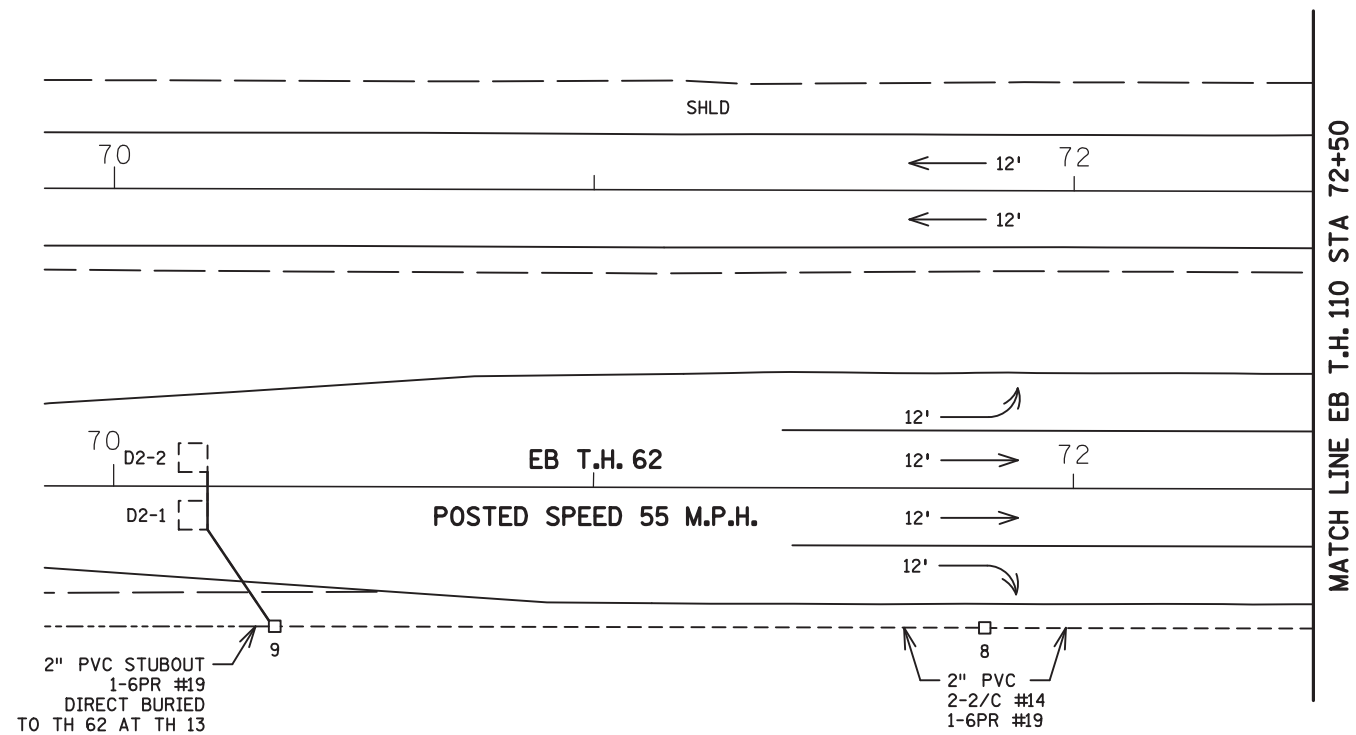
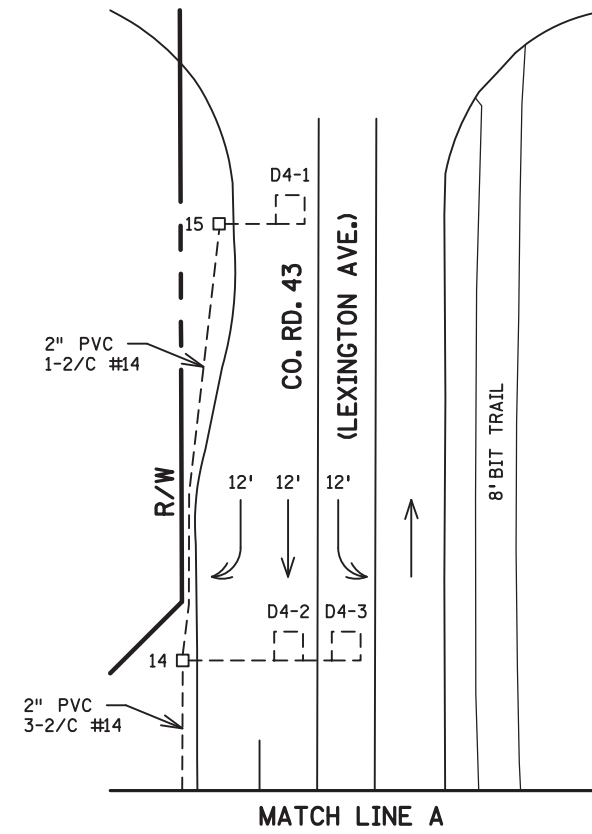
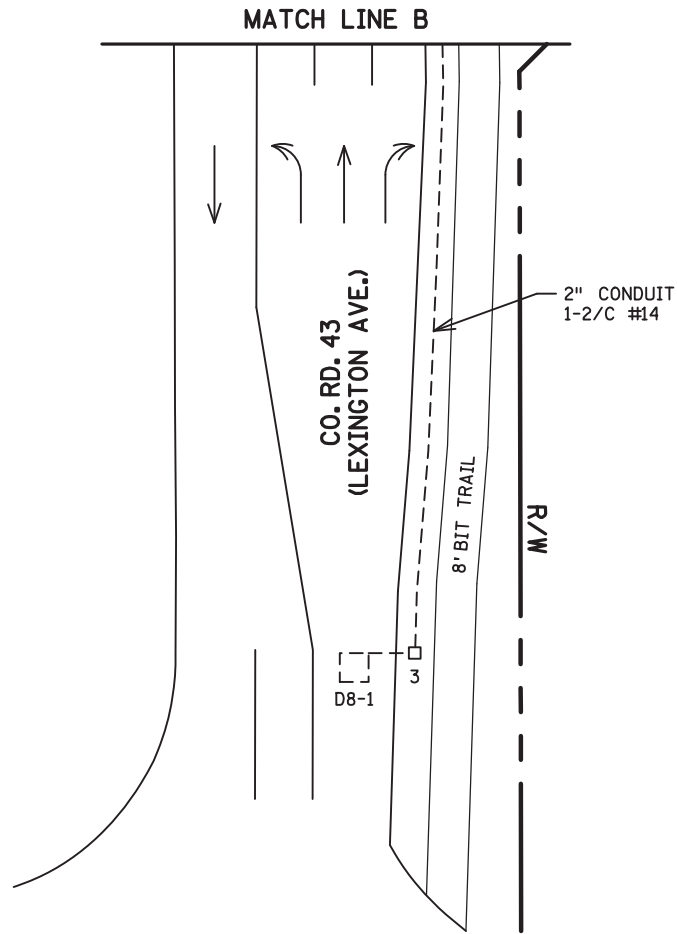
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

GENERAL DESCRIPTION OF THE SIGNAL REVISION WORK:

- THE REVISE SIGNAL SYSTEM WORK CONSISTS OF INSTALLING A PTZ CAMERA WITH X6-350/CAM 400 EXTENSION. THE WORK INCLUDES S&I LUMINAIRE, AND F&T CATSE CABLE (PTZ).
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- → INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E. 92834	S.A.P. NO.	DRAWN BY: HRL	CKD BY: CDB	DATE: 03/31/23
			METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY: <i>Gregory Kern</i>	LIC. NO. 26829	DATE: 04/04/23	
			OLD SYSTEM ID: 21417		STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 62 OF 121 SHEETS			

DISTRICT #: Metro
 IPLOT NAME: sheet_63
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\173566\APENDING\T21417_sgl3.dwg PLOTTED/REVISED: 6-APR-2023



NOTE: THERE IS NOT ANY SIGNAL WORK ON THIS SHEET.

BY	DATE	REVISIONS

SYSTEM ID: 1735661 T.E 92834
 METER ADDRESS: 2006 LEXINGTON AVE
 OLD SYSTEM ID: 21417

REVISE SIGNAL SYSTEM "R"
MATCH LINES
T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
IN MENDOTA HEIGHTS, HENNEPIN COUNTY

S.A.P. NO. _____
 DRAWN BY: HRL CKD BY: CDB DATE: 03/31/23
 CERTIFIED BY *Gregory Kern* LIC. NO. 26829 DATE: 04/04/23
 STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 63 OF 121 SHEETS

DISTRICT #: Metro
 IPLOT NAME: sheet_64
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43) Lexington Ave\1735666\PEND\ING\T\21417...sgl3.dwg\PLOTTED/REVISED: 6-APR-2023

3 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
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 2 AND 4
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 12:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

4 PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C. D. PED HEAD AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 3
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 17:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (RT ARROW) (PB8-2)
 EXTEND INTO HH 17:
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

PED PB STATION
 1-APS PB AND SIGN (DLB ARROW) (PB8-3)
 EXTEND INTO HH 22:
 1" CONDUIT
 1-2/C #14
 2-1/C #6 INS. GR.

A EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET (STATE FURNISHED)
 4" CONDUIT TO HH 1: 4" CONDUIT TO HH 23:
 2-12/C #14 4-12/C #14
 1-6/C #14 2-6/C #14
 1-3/C #14 2-4/C #14
 10-2/C #14 2-3/C #14
 1-3/C #20 9-2/C #14
 1-6PR #19 2-3/C #20
 1-1/C #6 INS. GR. 1-1/C #6 INS. GR.
 F&I: 1-COM CABLE (CAT 5E) (PTZ)

4" CONDUIT TO HH 1:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 8-2/C #14
 1-3/C #20
 1-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 2" CONDUIT STUBBED OUT (INTERCONNECT TO T. H. 62 AT T.H. 35E WEST RAMP) (SEE NOTE 11):
 1-25PR #19
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT (FOR FUTURE USE)
 1-6PR #19
 SERVICE CABINET TO HH 24:
 2" CONDUIT
 3-1/C #2
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 4-3/C #14 (LUM)
 HH 1 TO HH 23:
 2" CONDUIT
 2-3/C #14 (LUM)
 TO PULL VAULT
 1.5" CONDUIT
 1-FO PIGTAIL (6SM)

2 PA100 POLE FOUNDATION
 TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 1 AND 3
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 4:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

1 PA100 POLE FOUNDATION
 TYPE PA100-A-55
 SALVAGE: 1-D40-9 (DAVIT AT 350 DEG)
 INSTALL: 1-X6-350/CAM 400 EXTENSION (STATE FURNISHED) (MOUNTED AT 350 DEG) (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID AND GROUND ROD)
 INSTALL: 1-PTZ VIDEO CAMERA (STATE FURNISHED)
 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
 1-ANGLE MOUNT C. D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 2
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 23:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.
 F&I: 1-COM CABLE (CAT 5E) (PTZ)

PED PB STATION
 1-APS PB AND SIGN (LT ARROW) (PB8-1)
 EXTEND INTO HH 23:
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

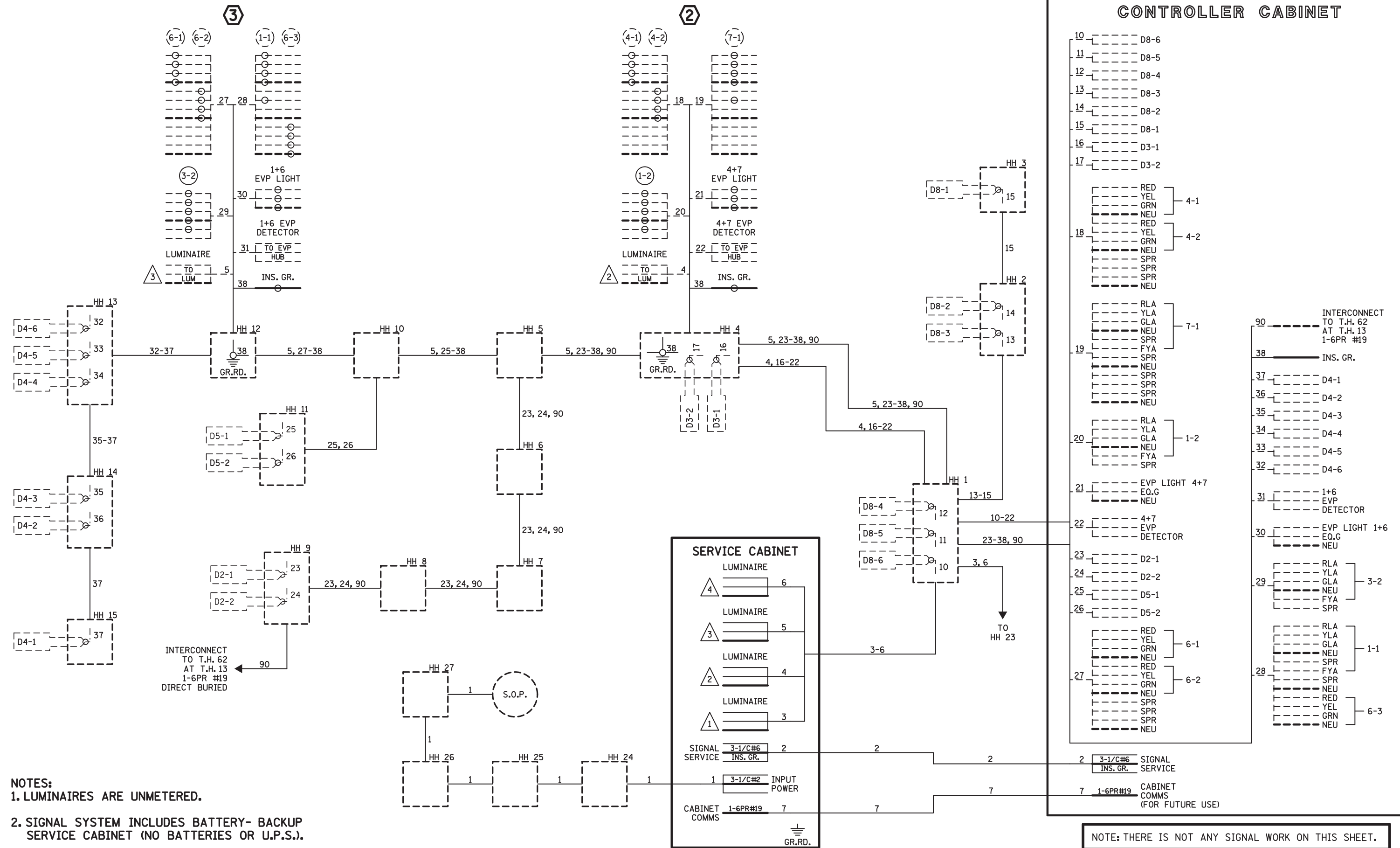
B SOP-WOOD POLE (BY XCEL ENERGY)
 2" PVC RISER, WEATHERHEAD AND 2" RSC TO HH 27:
 3-1/C #2

GENERAL DESCRIPTION OF THE SIGNAL REVISION WORK:
 - THE REVISE SIGNAL SYSTEM WORK CONSISTS OF INSTALLING A PTZ CAMERA WITH X6-350/CAM 400 EXTENSION. THE WORK INCLUDES S&I LUMINAIRE, AND F&I CAT5E CABLE (PTZ).
 - ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
 - INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E. 92834	S.A.P. NO.	DRAWN BY: HRL	CKD BY: CDB	DATE: 03/31/23
			METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY	LIC. NO. 26829		DATE: 04/04/23
			OLD SYSTEM ID: 21417		STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 64 OF 121 SHEETS			

REVISE SIGNAL SYSTEM "R"
POLE NOTES
T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
IN MENDOTA HEIGHTS, HENNEPIN COUNTY

DISTRICT #: Metro
 IPLOT NAME: sheet_65
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43)\Lexington Ave\1735661\PEND\ING\T21417_sgl3.dwg PLOTTED/REVISED: 6-APR-2023



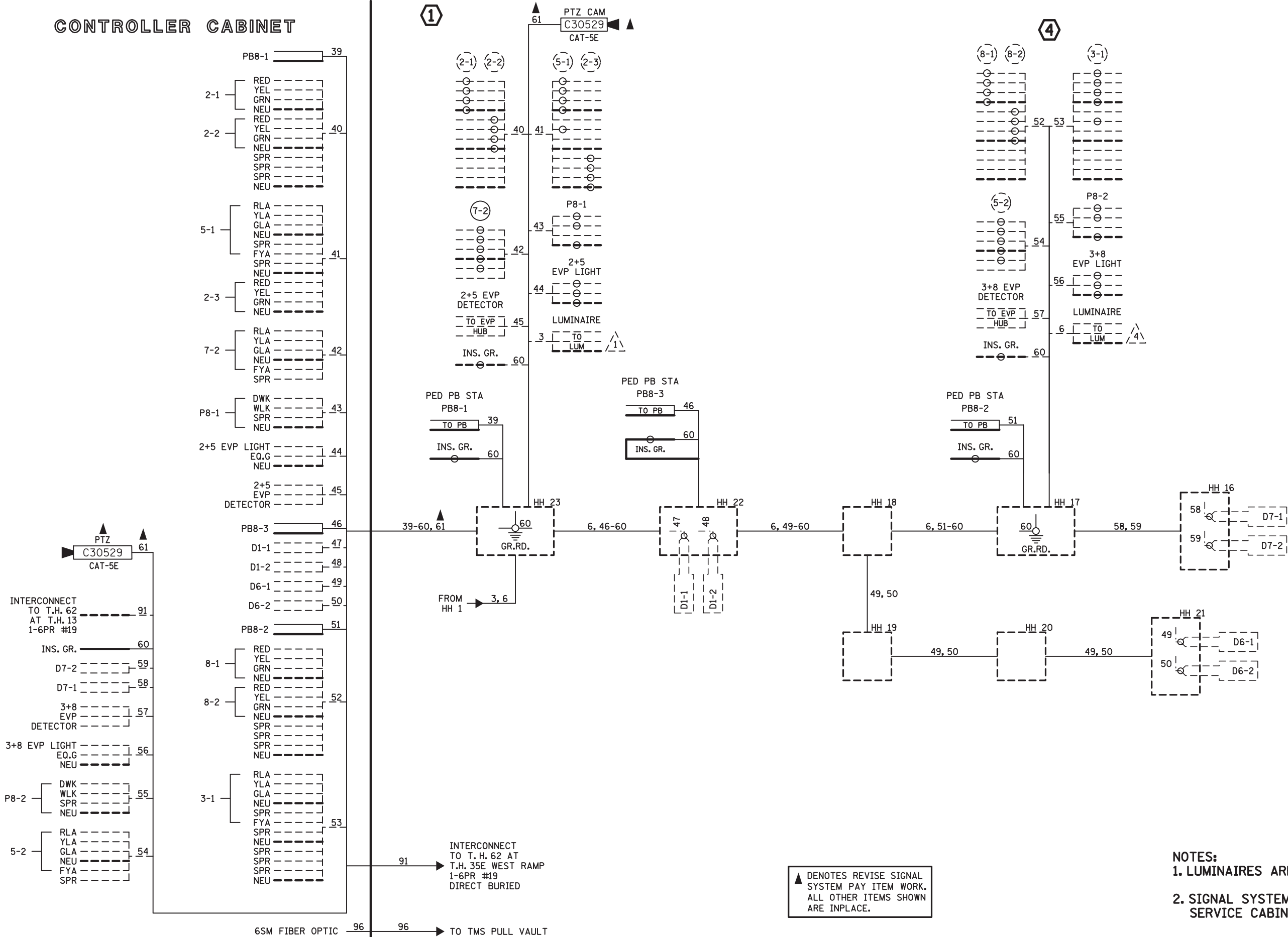
NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E. 92834	S.A.P. NO.	DRAWN BY: HRL	CKD BY: CDB	DATE: 03/31/23
			METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY: <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 04/04/23	
			OLD SYSTEM ID: 21417		STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 65 OF 121 SHEETS			

REVISE SIGNAL SYSTEM "R"
 WIRING DIAGRAM 1 OF 2
 T.H. 62 AT CO. RD. 43 (LEXINGTON AVE)
 IN MENDOTA HEIGHTS, HENNEPIN COUNTY

NOTE: THERE IS NOT ANY SIGNAL WORK ON THIS SHEET.

CONTROLLER CABINET



▲ DENOTES REVISE SIGNAL SYSTEM PAY ITEM WORK. ALL OTHER ITEMS SHOWN ARE INPLACE.

NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).

DISTRICT #: Metro
 PLOT NAME: sheet_66
 PATH & FILENAME: Projects\DM_ROS\062\0000\Traffic\Signals\JL_21417 (CR 43)\Lexington Ave\73566\PEND\ING\T21417...sgl3.dg\PLOTTED/REVISED: 6-APR-2023

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E. 92834	S.A.P. NO.	DRAWN BY: HRL	CKD BY: CDB	DATE: 03/31/23
			METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY: <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 04/04/23	
			OLD SYSTEM ID: 21417		STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 66 OF 121 SHEETS			

PLOTTED/REVISED: 14-JAN-2019

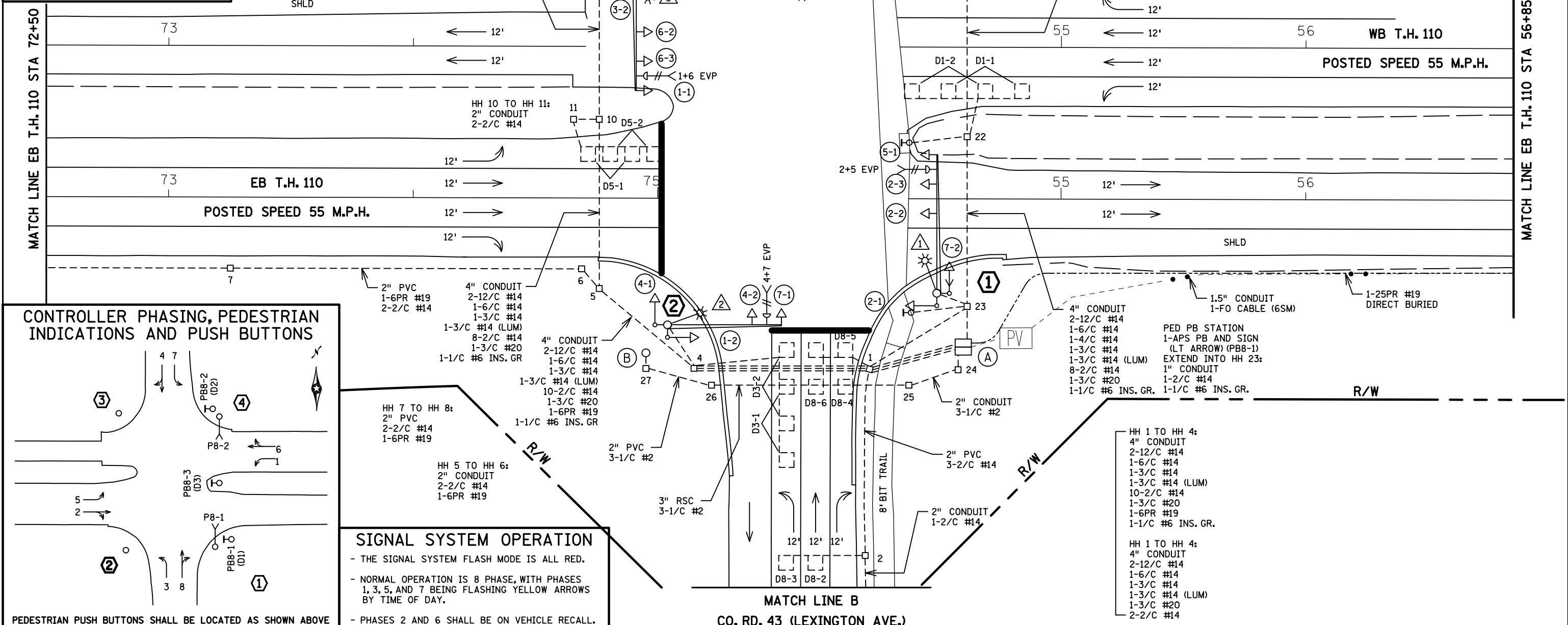
DISTRICT #: Metro
I/PLOT NAME: layout
PATH & FILENAME: Projects\DM_ROS\1000007\Traffic\Signals\21417 (CR 43) (Lexington Ave)\T21417_sgl.dgn

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1	2-6x6	15 & 45	PVC
D1-2	2-6x6	0 & 30	PVC
D2-1, D2-2	6x6	482	SAW
D3-1, D7-1	2-6x6	20 & 50	PVC
D3-2, D7-2	2-6x6	5 & 35	PVC
D4-1	6x6	200	PVC
D4-2, D4-3	6x6	109	PVC
D4-4	6x6	20	PVC
D4-5, D4-6	6x6	0	PVC
D5-1	6x6	9	PVC
D5-1	6x6	27	SAW
D5-2	2-6x6	0 & 18	PVC
D6-1, D6-2	6x6	480	PVC
D8-1	6x6	232	PVC
D8-2, D8-3	6x6	92	PVC
D8-4, D8-5	6x6	20 & 5	PVC
D8-6	2-6x6	5 & 20	PVC

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

SIGNAL FACE 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 ARE 12" LED
-ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS
-FYA DENOTES FLASHING YELLOW ARROW



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS

PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

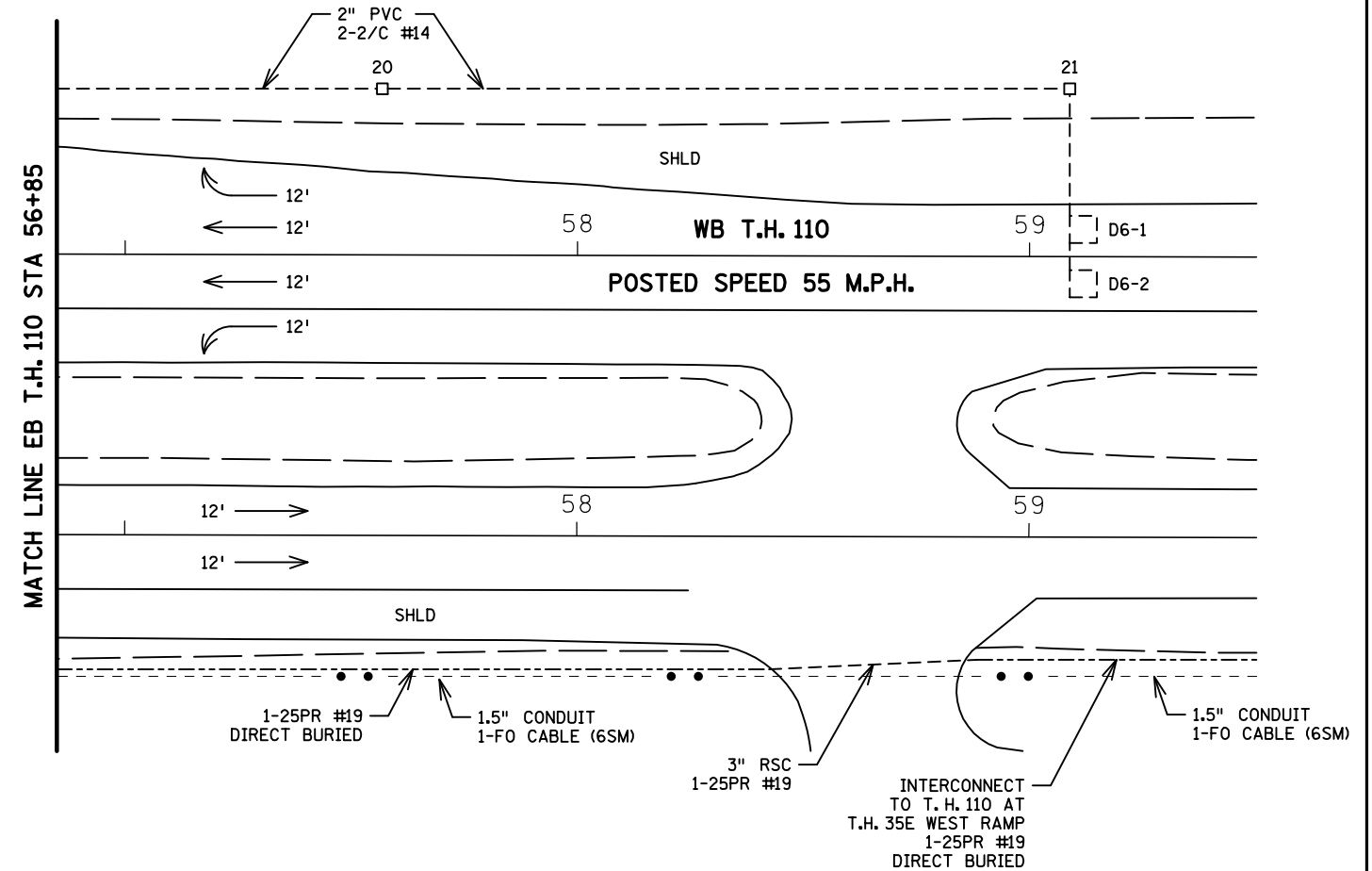
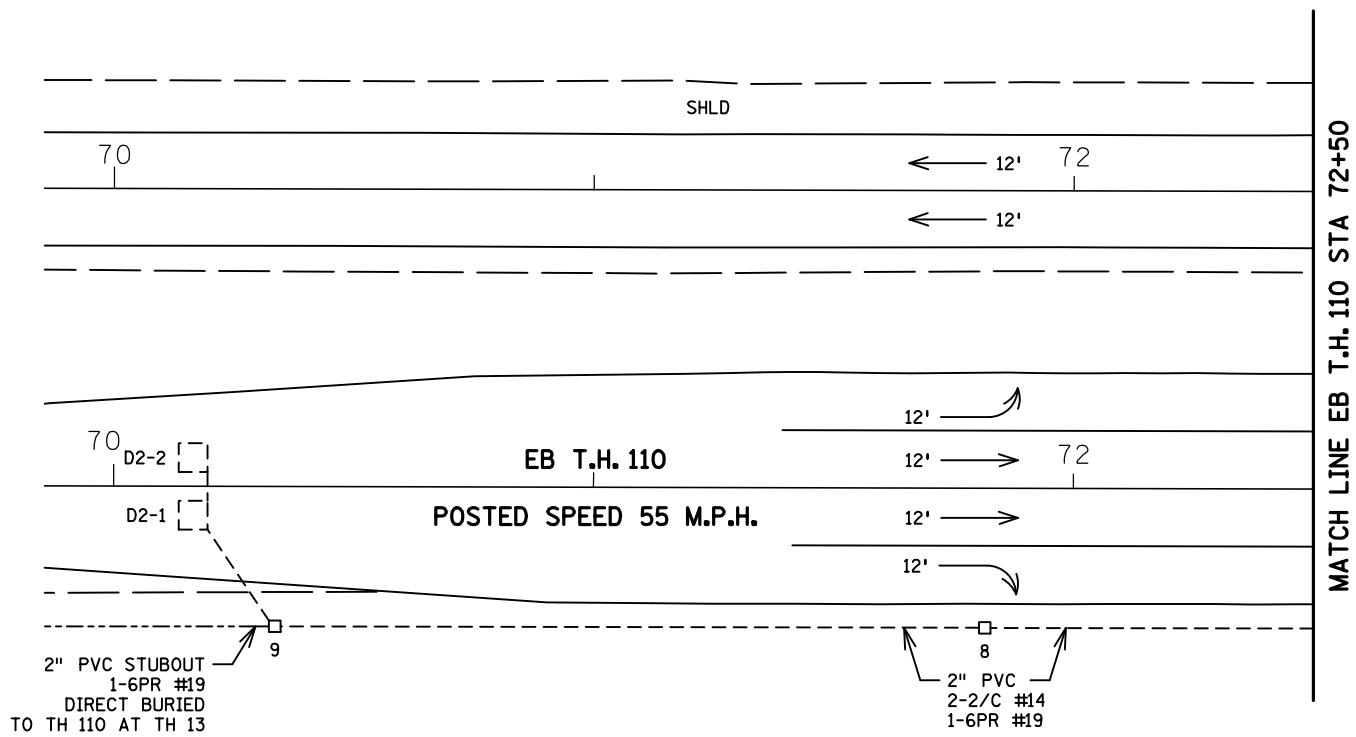
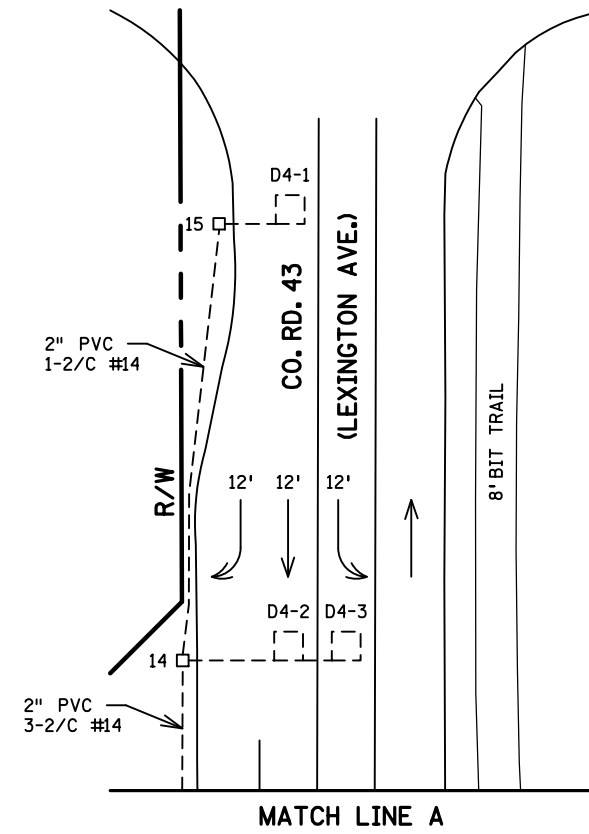
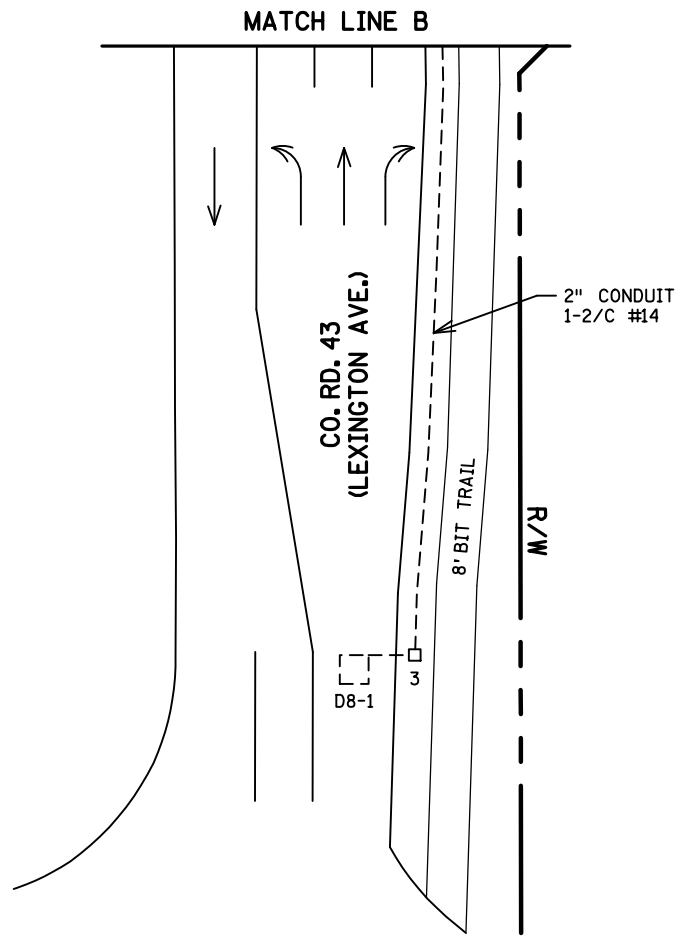
SIGNAL SYSTEM OPERATION

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

BY: SJK	DATE: 01/15/19	OPERATION PLAN	REVISIONS:	SYSTEM ID: 1735661	T.E.	METER ADDRESS: 2006 LEXINGTON AVE	OLD SYSTEM ID: 21417	INTERSECTION LAYOUT T.H. 110 AT CO. RD. 43 (LEXINGTON AVE) IN MENDOTA HEIGHTS, HENNEPIN COUNTY		S.A.P. NO.:	CERTIFIED BY:	LICENSED PROFESSIONAL ENGINEER	LIC. NO.:	DATE:	STATE PROJ. NO. (T.H.110)	SHEET NO. 1 OF 5 SHEETS
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PLOTTED/REVISED: 14-JAN-2019

DISTRICT *: Metro
I/PLOT NAME: match lines
PATH & FILENAME: Projects\DM_ROS\UI\0000\Traffic\Signals\21417 (CR 43) (Lexington Ave)\T21417_sgl.dgn



BY	DATE	REVISIONS
SJK	01/15/19	OPERATION PLAN

SYSTEM ID: 1735661 T.E.
 METER ADDRESS: 2006 LEXINGTON AVE
 OLD SYSTEM ID: 21417

MATCH LINES
T.H. 110 AT CO. RD. 43 (LEXINGTON AVE)
IN MENDOTA HEIGHTS, HENNEPIN COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO. (T.H.110)		SHEET NO. 2 OF 5 SHEETS	

DISTRICT *: Metro
 IPLOT NAME: pole notes
 PATH & FILENAME: Projects\DM_R0SVU00000TrafficSignals\21417 (CR 43) (Lexington Ave)\T21417_sgl.dgn
 PLOTTED/REVISED: 14-JAN-2019

③ 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
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 2 AND 4
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 12:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

② PA100 POLE FOUNDATION
 TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)
 LED LUMINAIRE
 2-R9-3a SIGNS (NO PEDS) FACING POLES 1 AND 3
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 4:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

④ PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 1-ANGLE MOUNT C. D. PED HEAD AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 3
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-TYPE D SIGN (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 17:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

① 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
 1-ANGLE MOUNT C. D. PED HEAD AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LED LUMINAIRE
 1-R9-3a SIGN (NO PEDS) FACING POLE 2
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 23:
 2-12/C #14
 1-6/C #14
 1-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

Ⓐ EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET (STATE FURNISHED)
 4" CONDUIT TO HH 1: 4" CONDUIT TO HH 23:
 2-12/C #14 4-12/C #14
 1-6/C #14 2-6/C #14
 1-3/C #14 2-4/C #14
 10-2/C #14 2-3/C #14
 1-3/C #20 9-2/C #14
 1-6PR #19 2-3/C #20
 1-1/C #6 INS. GR. 1-1/C #6 INS. GR.

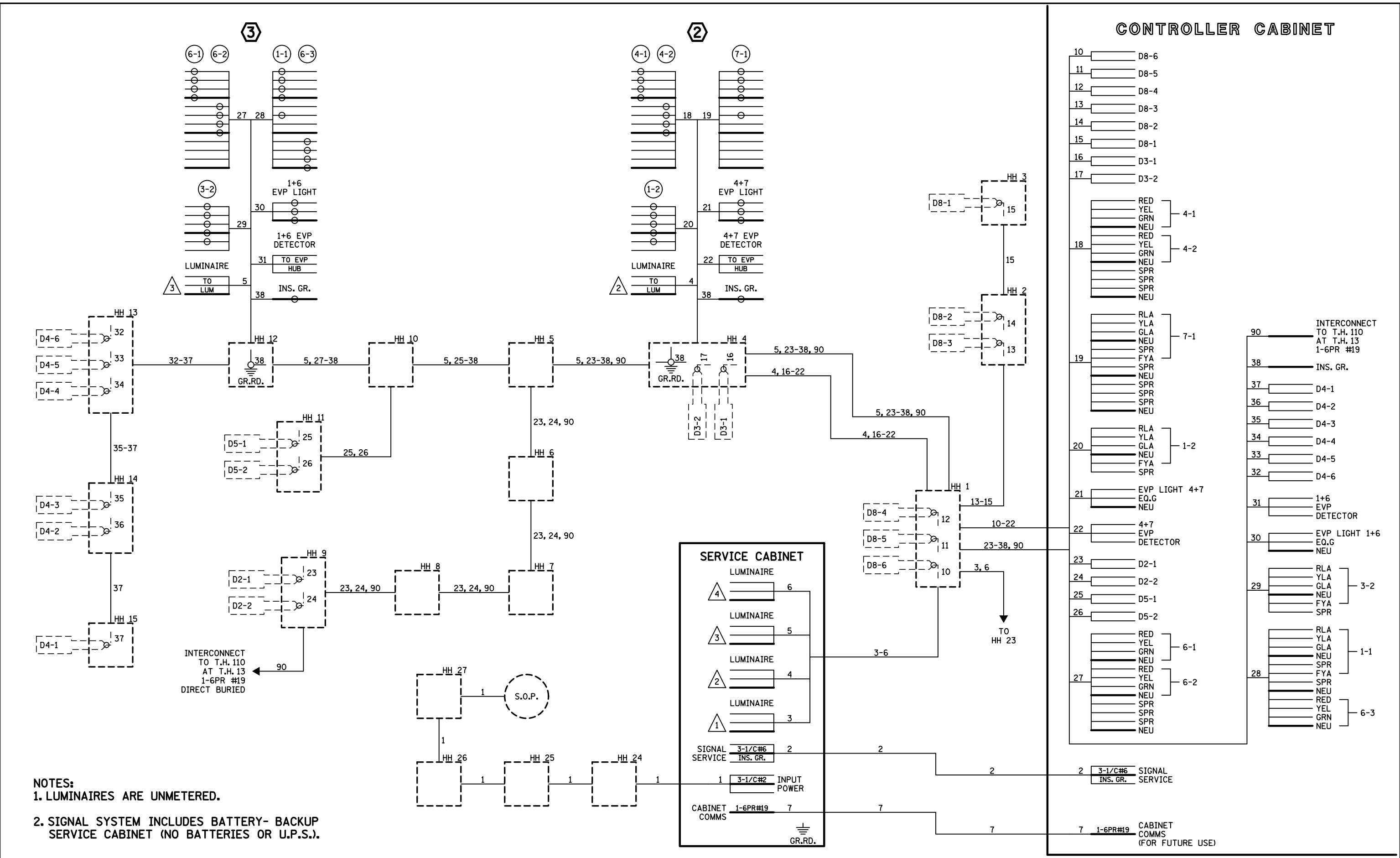
4" CONDUIT TO HH 1:
 2-12/C #14
 1-6/C #14
 1-3/C #14
 8-2/C #14
 1-3/C #20

1-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 2" CONDUIT STUBBED OUT (INTERCONNECT TO T. H. 110 AT T.H. 35E WEST RAMP) (SEE NOTE 11):
 1-25PR #19
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT (FOR FUTURE USE)
 1-6PR #19
 SERVICE CABINET TO HH 24:
 2" CONDUIT
 3-1/C #2
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 4-3/C #14 (LUM)
 HH 1 TO HH 23:
 2" CONDUIT
 2-3/C #14 (LUM)
 TO PULL VAULT
 1.5" CONDUIT
 1-FO PIGTAIL (6SM)

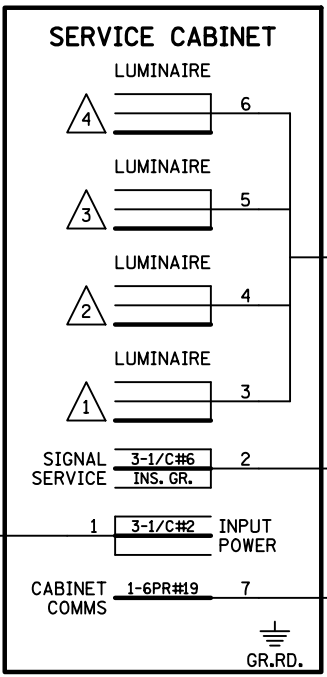
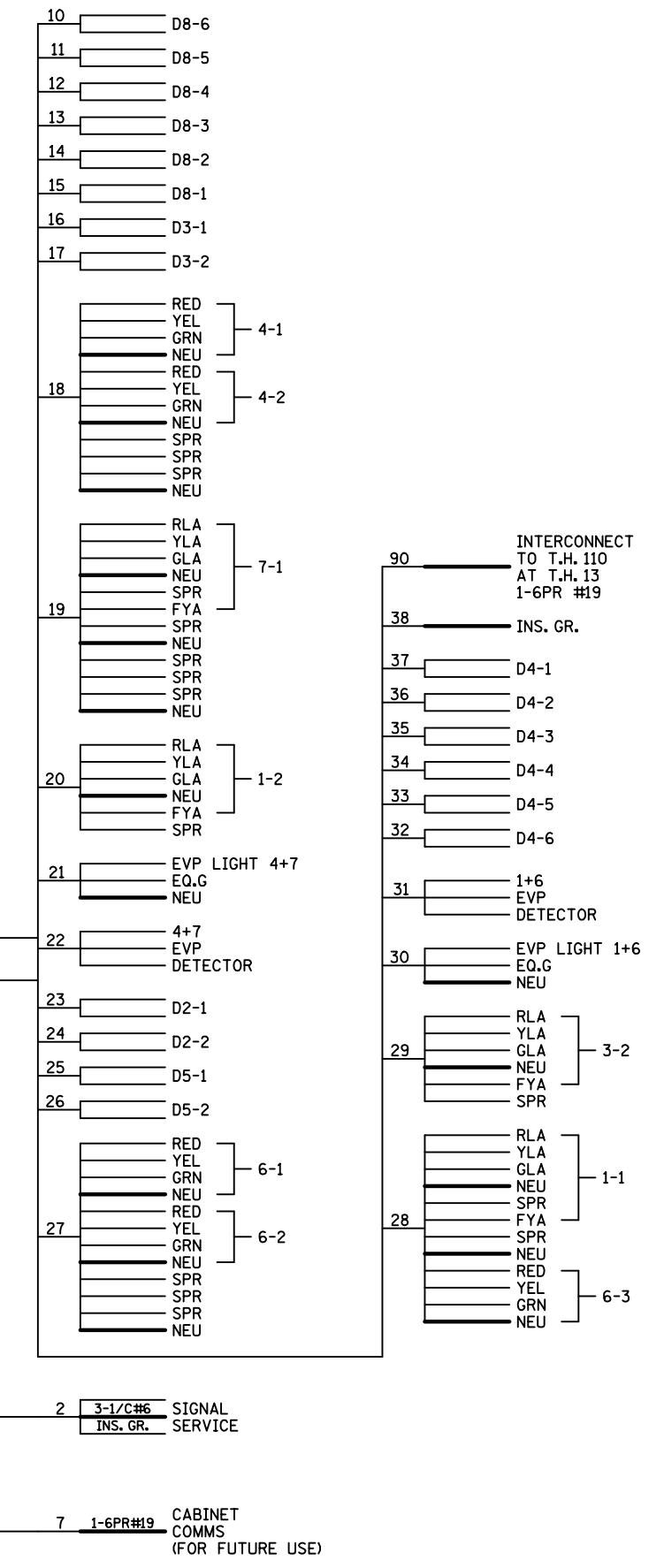
Ⓑ SOP-WOOD POLE
 (BY XCEL ENERGY)
 2" PVC RISER, WEATHERHEAD
 AND 2" RSC TO HH 27:
 3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	01/15/19	OPERATION PLAN	METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
			OLD SYSTEM ID: 21417		POLE NOTES T.H. 110 AT CO. RD. 43 (LEXINGTON AVE) IN MENDOTA HEIGHTS, HENNEPIN COUNTY			
					STATE PROJ. NO.	(T.H.110)	SHEET NO.	3 OF 5 SHEETS

DISTRICT *: Metro
 IPLOT NAME: wiring diagram 1 of 2
 PATH & FILENAME: Projects\DM-ROS\1000000000\Traffic\Signals\21417 (CR 43) (Lexington Ave)\T21417_sgl.dgn
 PLOTTED/REVISED: 14-JAN-2019

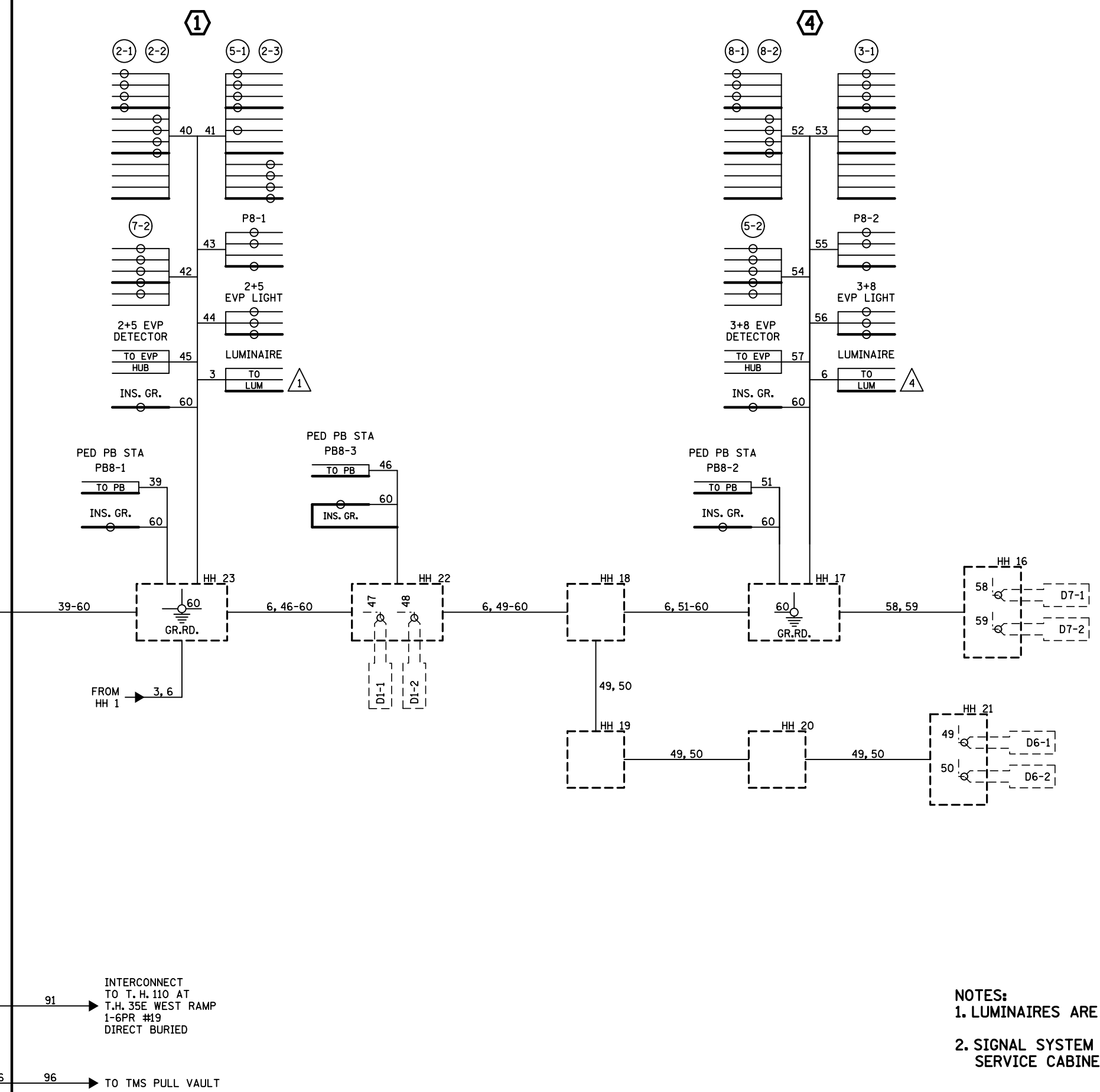
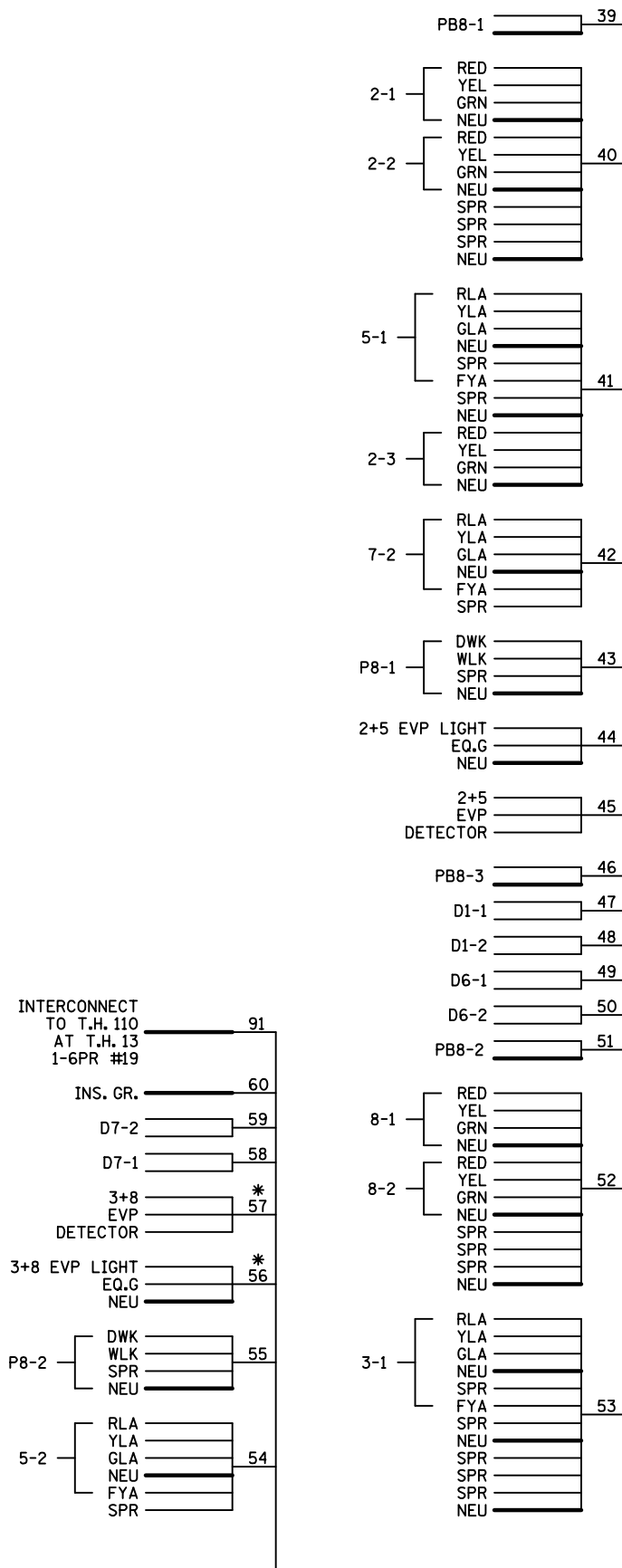


CONTROLLER CABINET



BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	01/15/19	OPERATION PLAN	METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY	LICENSED PROFESSIONAL ENGINEER	LIC. NO.	DATE:
			OLD SYSTEM ID: 21417		STATE PROJ.NO. (T.H.110) SHEET NO. 4 OF 5 SHEETS			

CONTROLLER CABINET



NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).

DISTRICT #: Metro
 PLOT NAME: wiring diagram 2 of 2
 PATH & FILENAME: Projects\DM_ROS\1000000\Traffic\Signals\21417 (CR 43) (Lexington Ave)\T21417_sgl.dgn
 PLOTTED/REVISED: 14-JAN-2019

BY	DATE	REVISIONS	SYSTEM ID: 1735661	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	01/15/19	OPERATION PLAN	METER ADDRESS: 2006 LEXINGTON AVE		CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
			OLD SYSTEM ID: 21417		LICENSED PROFESSIONAL ENGINEER			
WIRING DIAGRAM 2 OF 2 T.H. 110 AT CO. RD. 43 (LEXINGTON AVE) IN MENDOTA HEIGHTS, HENNEPIN COUNTY					STATE PROJ. NO. (T.H.110) SHEET NO. 5 OF 5 SHEETS			