

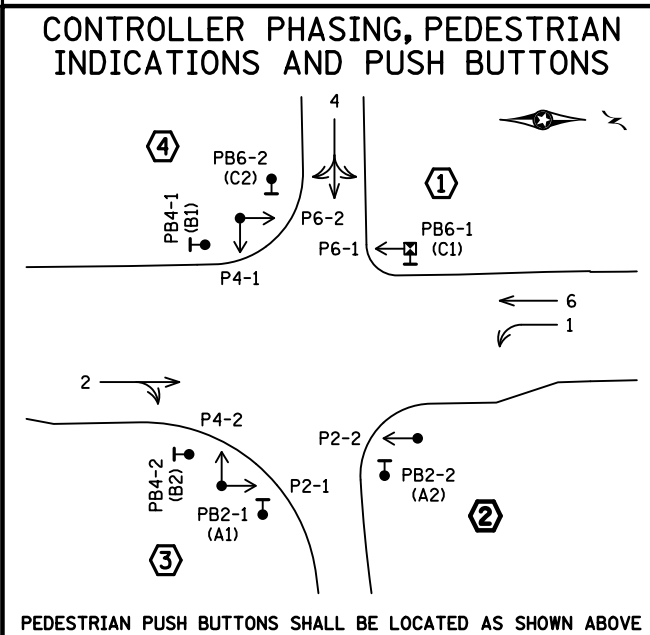
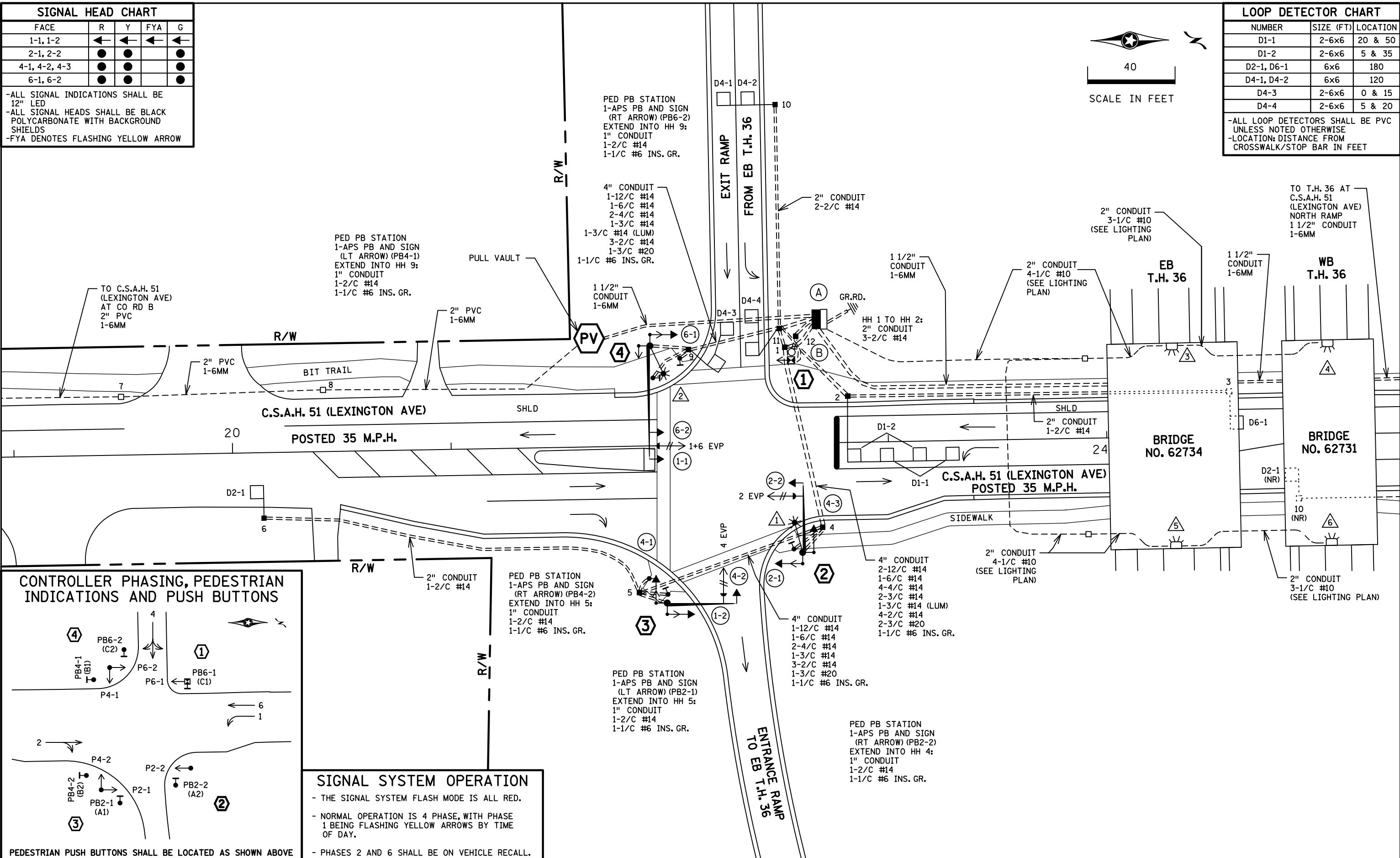
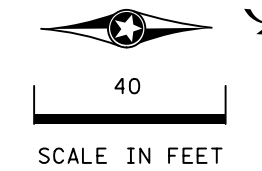
DISTRICT #: Metro
 IPLOT NAME: layout
 PATH & FILENAME: Projects\DM罗斯03600000TrafficSignal\2.23_(5)\LEXINGTON AV SR-1735298\T735298_.sldgn
 PLOTTED/REVISED: 18-OCT-2022

SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2	●	●	●	●
4-1, 4-2, 4-3	●	●	●	●
6-1, 6-2	●	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1, D6-1	6x6	180
D4-1, D4-2	6x6	120
D4-3	2-6x6	0 & 15
D4-4	2-6x6	5 & 20

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



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS	SYSTEM ID:	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	10/18/22	AS-BUILT PLAN	20629	T.E.	062-651-049	GDS	EJA	06-30-15
			METER ADDRESS: 2265 LEXINGTON AVE N	T.E.	CERTIFIED BY: _____	LICENSED PROFESSIONAL ENGINEER		DATE: _____
			MASTER ID:		STATE PROJ. NO. 6212-148 (T.H.36)		SHEET NO. SS8 OF SS20 SHEETS	

DISTRICT #: Metro
 PLOT NAME: Pole notes
 PATH & FILENAME: Projects\DM_POS\036\0000\Traffic\Signals\2.23_(5)\LEXINGTON AV SR-1735298\T1735298_sgl.dgn
 PLOTTED/REVISED: 18-OCT-2022

④ PA100 POLE FOUNDATION
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 1-ANGLE MOUNT SIGNAL AT 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)
 LUMINAIRE-LED
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-3) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 9:
 1-12/C #14
 1-6/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #20
 1-1/C #6 INS. GR.

③ PA85 POLE FOUNDATION
 TYPE PA85-A-30
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 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 (PHASE 4)
 2-R6-1(R AND L) SIGNS (ONE WAY)
 1-TYPE D SIGN (D-4) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 5:
 1-12/C #14
 1-6/C #14
 2-4/C #14
 1-3/C #14
 1-3/C #20
 1-1/C #6 INS. GR.

① PEDESTAL FOUNDATION
 10' PEDESTAL POLE PLUS BASE
 1-STRAIGHT MOUNT C.D. PED HEAD AT 180 DEG
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 1-R9-3 SIGN (NO PEDS) FACING POLE 2
 3" CONDUIT TO HH 11:
 1-4/C #14
 1-2/C #14
 1-1/C #6 INS. GR.

② PA85 POLE FOUNDATION
 TYPE PA85-A-30-D30-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 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 (PHASE 2)
 LUMINAIRE-LED
 1-R9-3 SIGN (NO PEDS) FACING POLE 1
 2-TYPE D SIGNS (D-1) (D-2) (SEE SIGN DETAILS)
 3" CONDUIT TO HH 4:
 1-12/C #14
 2-4/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
 4" CONDUIT TO HH 1: 4" CONDUIT TO HH 11:
 2-12/C #14 1-12/C #14
 1-6/C #14 1-6/C #14
 4-4/C #14 3-4/C #14
 2-3/C #14 1-3/C #14
 7-2/C #14 7-2/C #14
 2-3/C #20 1-3/C #20
 1-1/C #6 INS. GR. 1-1/C #6 INS. GR.

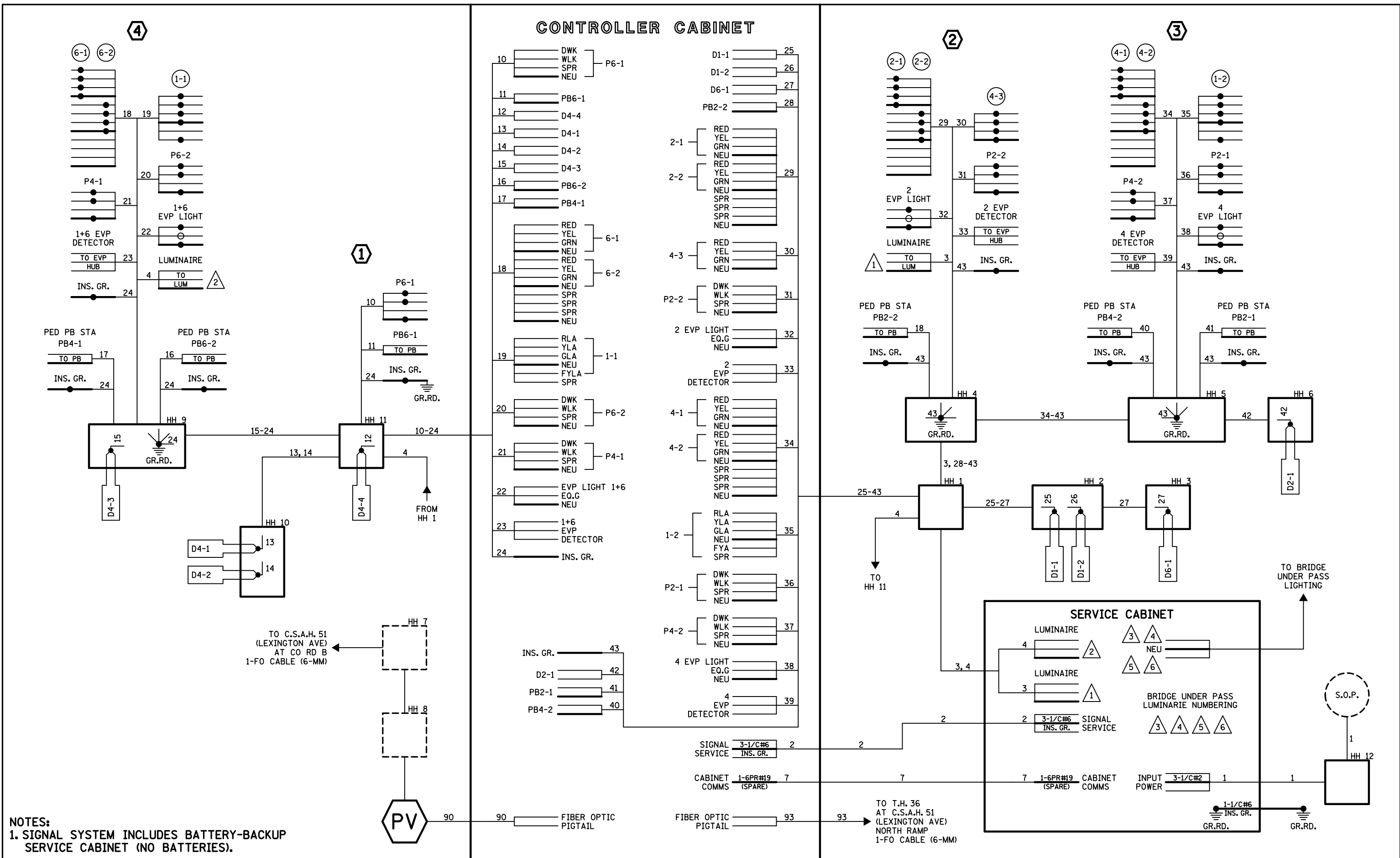
GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD
 1-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 2" CONDUIT STUBBED OUT (FOR BRIDGE
 UNDERPASS LIGHTING) (SEE LIGHTING PLAN)
 CONTROLLER CABINET TO PULL VAULT TO CO RD B:
 1-1/2" CONDUIT
 1-6-MM FO PIGTAIL WITH FIELD TERMINATED ENDS
 CONTROLLER CABINET TO NORTH RAMP:
 1-1/2" CONDUIT
 1-6-MM FO PIGTAIL WITH FIELD TERMINATED END
 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 LIGHTING HH:
 2" CONDUIT
 4-1/C #10
 (BRIDGE UNDER PASS LIGHTING)
 SERVICE CABINET TO SOP VIA HH 12:
 2" CONDUIT
 3-1/C #2
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 2-3/C #14 (LUM)
 SERVICE CABINET TO EXTERNAL GR. RD.:
 1" CONDUIT
 1-1/C #6 INS. GR.
 (SEE EQUIPMENT PAD LAYOUT)
 HH 1 TO HH 11:
 2" CONDUIT
 1-3/C #14 (LUM)

Ⓑ SOP-WOOD POLE
 (BY XCEL ENERGY)
 2" CONDUIT RISER, WEATHERHEAD
 AND CONDUIT TO HH 12:
 3-1/C #2

(SEE NOTES ON SHEET 8)

BY	DATE	REVISIONS	SYSTEM ID: 20629	T.E.	INTERSECTION NOTES TRAFFIC CONTROL SIGNAL SYSTEM A T.H. 36 AT C.S.A.H. 51 (LEXINGTON AVE) SOUTH RAMP IN ROSEVILLE, RAMSEY COUNTY	S.A.P. NO. 062-651-049	DRAWN BY: GDS	CKD BY: EJA	DATE: 06-30-15
SJK	10/18/22	AS-BUILT PLAN	METER ADDRESS: 2265 LEXINGTON AVE N			CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
			MASTER ID:	T.E.		STATE PROJ. NO. 6212-148 (T.H.36)	SHEET NO. SS9 OF SS20 SHEETS		

DISTRICT #: Metro
 IPLOT NAME: wiring diagram
 PATH & FILENAME: Projects\DM_POS\036\0000\Traffic\Signal\2.23_(5)\LEXINGTON AV SR-1735298\T735298_sgl.dgn
 PLOTTED/REVISED: 18-OCT-2022



BY	DATE	REVISIONS	SYSTEM ID: 20629	T.E.	S.A.P. NO. 062-651-049	DRAWN BY: GDS	CKD BY: EJA	DATE: 06-30-15
SJK	10/18/22	AS-BUILT PLAN	METER ADDRESS: 2265 LEXINGTON AVE N		CERTIFIED BY _____	LICENSED PROFESSIONAL ENGINEER	LIC. NO. _____	DATE: _____
			MASTER ID: _____	T.E.	STATE PROJ. NO. 6212-148 (T.H.36) SHEET NO. SS10 OF SS20 SHEETS			

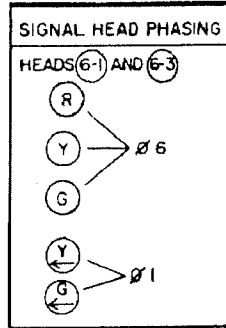
**FIELD WIRING DIAGRAM
 TRAFFIC CONTROL SIGNAL SYSTEM A
 T.H. 36 AT C.S.A.H. 51 (LEXINGTON AVE)
 SOUTH RAMP IN ROSEVILLE, RAMSEY COUNTY**

PLOTTED/REVISED: 10/23/2014

DISTRICT #: METRO
 IPLOT NAME: layout
 PATH & FILENAME: IP_PWP-d0780722T20629LWR_sgl.dgn

FACE	PHASE	FLASH	TYPE AND SIZE IN INCHES					
			R	Y	G	Y	G	G
2-1								
2-2	2	R	12"	12"	12"	-	-	-
4-1								
4-2	4	R	12"	12"	12"	-	-	-
4-3								
6-1	6 AND 1	R	12"	12"	12"	12"	12"	
6-2	6	R	12"	12"	12"	-	-	-
6-3	6 AND 1	R	12"	12"	12"	12"	12"	

DETECTOR CHART		
DESIGNATION	PHASE	SIZE IN FT.
D1-1	1	1-6' X 15'
D1-2	1	1-6' X 15'
D2-1	2	1-6' X 6'
D2-2	2	1-15' X 10'
D4-1	4	1-6' X 15'
D4-2	4	1-6' X 15'
D4-3	4	1-18' X 6'
D4-4	4	1-18' X 6'
D6-1	6	1-6' X 6'



RED AND GREENS INDICATIONS ARE LED

- ① TYPE A30-D35-9
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 ONE WAY SIGNAL OVERHEAD
 TYPE 10C POLE MOUNTED AT 270 DEG
 LUMINAIRE 200 WATT HPS
 2-PEDESTRIAN PUSH BUTTONS
 2-PED HEADS
 EXTEND INTO HH 1;
 3" RSC
 2-12/C#12
 1-3/C#12
 1-3/C#20
 2-1/C#10 (LUM)

- ④ TYPE A20
 1-ONE WAY EVP AND CONFIRMATORY LIGHT
 ONE WAY SIGNAL OVERHEAD
 TYPE 20C POLE MOUNTED AT 270 DEG
 2-PEDESTRIAN PUSH BUTTONS
 2-PED HEADS
 EXTEND INTO HH 2;
 3" RSC
 3-12/C#12
 2-3/C#12
 1-3/C#20

- ② TYPE 4A
 1-PEDESTRIAN PUSH BUTTON
 1-PED HEAD
 1-R9-3 SIGN FACING POLE 3
 EXTEND INTO HH 8;
 3" RSC
 1-12/C#12
 1-3/C#12

- EQUIPMENT PAD
 SIGNAL SERVICE CABINET
 EXTEND INTO HH 1;
 2" R.S.C.
 4-1/C#10
 EXTEND INTO HH 12 FROM METER;
 2" R.S.C.
 3-1/C#10 (LUM)
 CONTROLLER AND CABINET
 EXTEND INTO H.H. 9;
 4" R.S.C.
 1-12/C#12
 1-3/C#12
 7-2/C#14
 1-6MM
 EXTEND INTO H.H. 1;
 4" R.S.C.
 5-12/C#12
 2-3/C#12
 3-3/C#20
 2-2/C#14
 EXTEND INTO HH 1:
 2" PVC
 1-6MM

2" PVC
 1-6MM TO
 COUNTY RD B

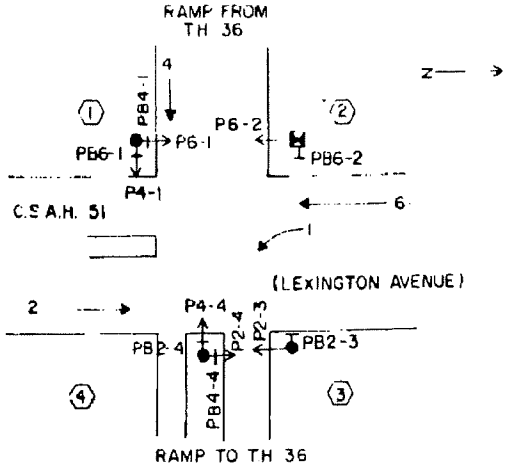
35' WOOD POLE
 2" RSC RISER AND WEATHERHEAD
 ABOVE DISCONNECT SWITCH
 3-1/C#10 (LUM)
 DISCONNECT SWITCH
 2" R.S.C. BELOW DISCONNECT SWITCH
 EXTEND INTO H.H. 12;
 2" R.S.C.
 3-1/C#10 (LUM)

C.S.A.H. 51
 (LEXINGTON AVE)

C.S.A.H. 51
 (LEXINGTON AVE)

BRIDGE NO 5723
 TH 36

CONTROLLER PHASING, PEDESTRIAN INDICATION AND PUSH BUTTON LAYOUT



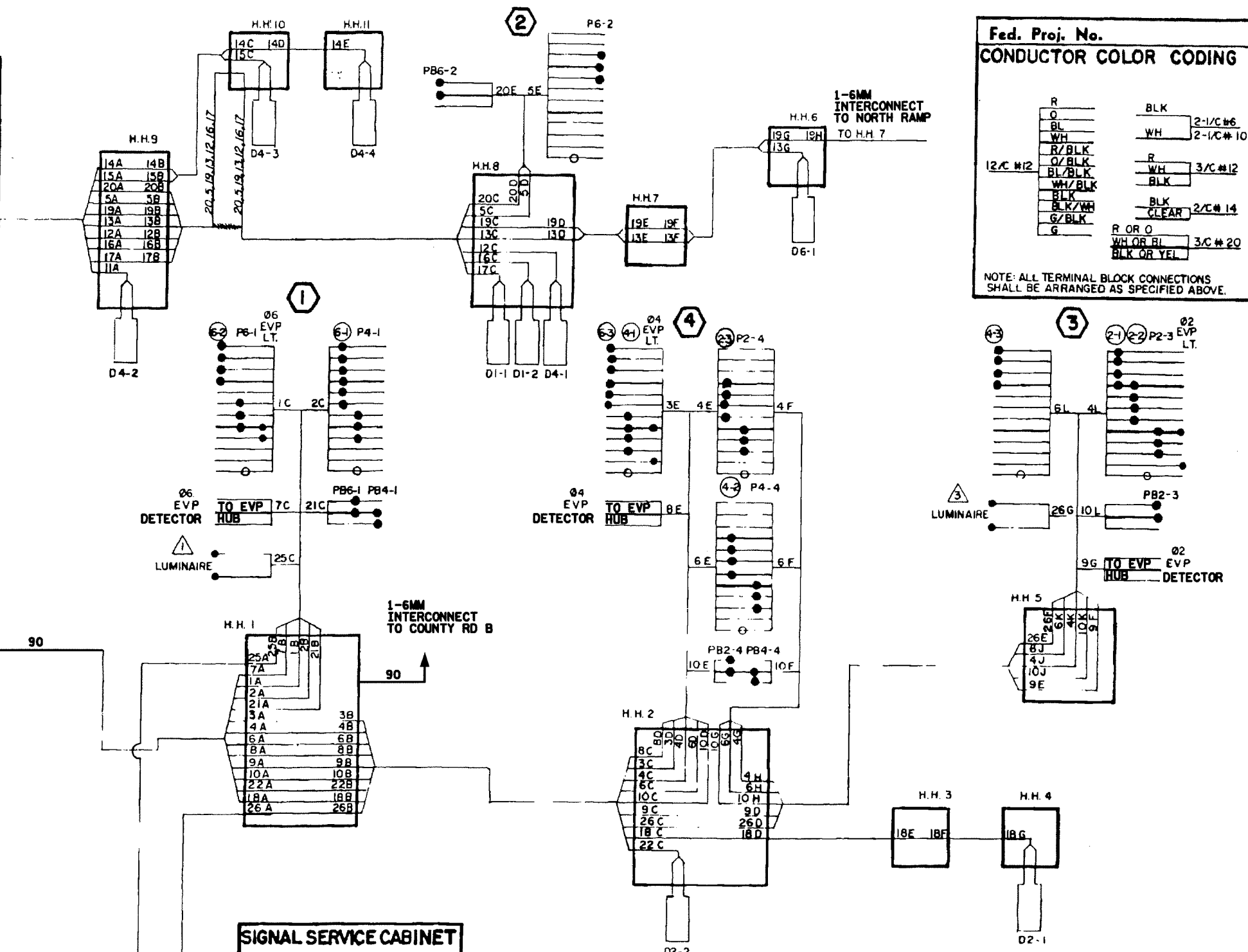
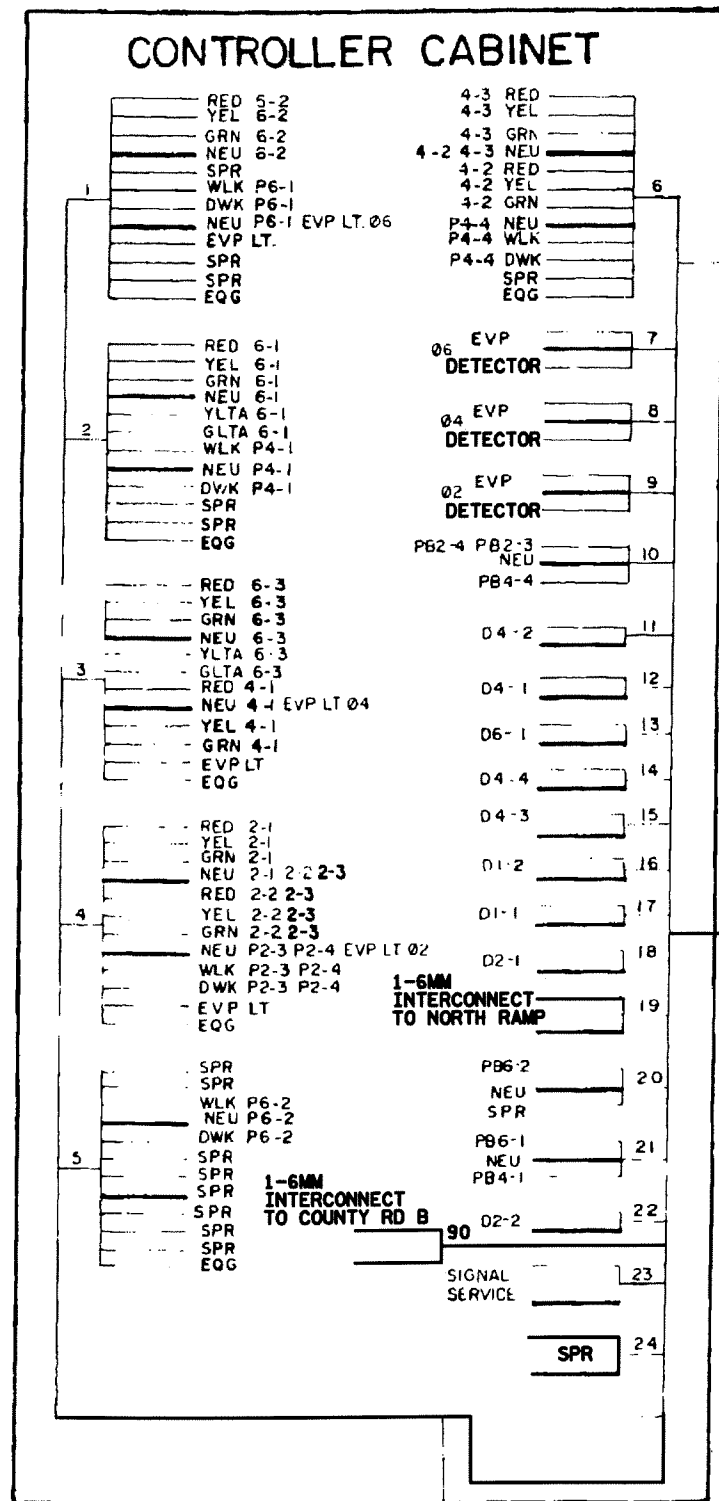
SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A PROTECTED/PERMISSIVE LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS	SYSTEM ID: 20629	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	11-01-14	ADDED FIBER TO PLAN	METER ADDRESS:					
			MASTER ID:	T.E.	CERTIFIED BY _____ LIC. NO. _____ DATE: _____			
INTERSECTION LAYOUT T.H. 36 AT C.S.A.H. 51 (LEXINGTON AVE) SOUTH RAMP IN ROSEVILLE, RAMSEY COUNTY					STATE PROJ. NO. _____ (T.H. SHEET NO. _____ OF _____ SHEETS			

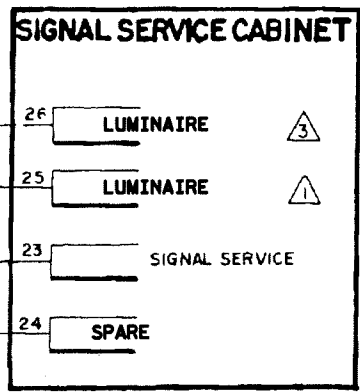
PLOTTED/REVISED: 10/23/2014

DISTRICT #: METRO
 IPLOT NAME: wiring diagram
 PATH & FILENAME: IP_PWP:d0780722T20629LWR_sol.dgn



Fed. Proj. No.	
R	BLK
O	WH 2-1/C#6
BL	WH 2-1/C#10
WH	R
R/BLK	WH 3/C#12
O/BLK	BLK
BL/BLK	BLK
WH/BLK	BLK
BLK	BLK
BLK/WH	CLEAR 2/C#14
G/BLK	R OR O
G	WH OR BL 3/C#20
	BLK OR YEL

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



LUMINAIRES ARE UNMETERED

BY	DATE	REVISIONS	SYSTEM ID: 20629	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
SJK	11-01-14	ADDED FIBER TO PLAN	METER ADDRESS:	T.E.	FIELD WIRING DIAGRAM T.H. 36 AT C.S.A.H. 51 (LEXINGTON AVE) SOUTH RAMP IN ROSEVILLE, RAMSEY COUNTY			
			MASTER ID:	T.E.	CERTIFIED BY	LIC. NO.	DATE:	
					STATE PROJ. NO.	(T.H.) SHEET NO.	OF	SHEETS