

**LOOP DETECTOR CHART**

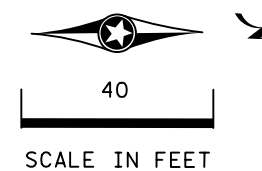
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	37
D1-3	2-6x6	7
D2-1, D2-2	6x6	293
D6-1, 6-2	6x6	302
D8-1	2-6x6	118
D8-2	6x15	-3
D8-3	6x6	18

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

**SIGNAL HEAD CHART**

FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	○	○	○
6-1, 6-2, 6-3	○	○	○
8-1, 8-2, 8-3	○	○	○

-ALL SIGNAL INDICATIONS ARE 12" LED  
-ALL SIGNAL HEADS HAVE BACKGROUND SHIELDS

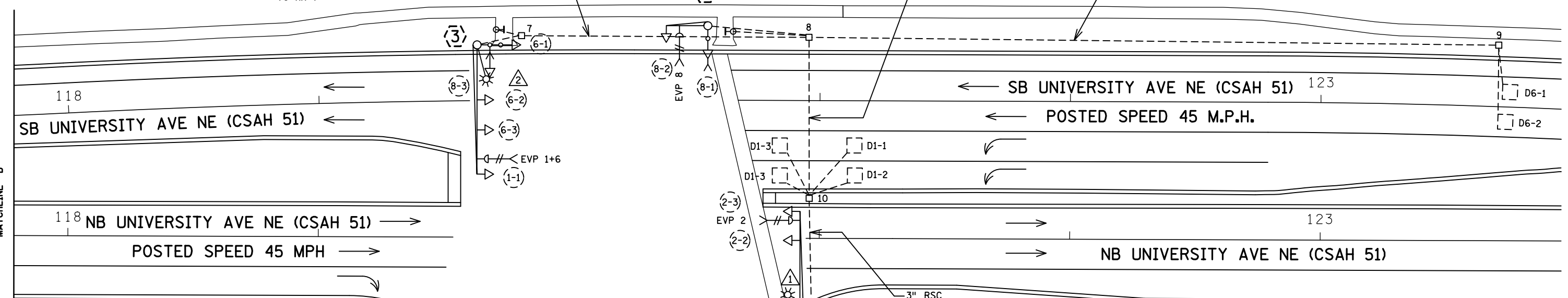


- ▲ REMOVE PED PB STATION
- ▲ SALVAGE 1-APS PB AND SIGN (LT ARROW) (PB4-1)
- ▲ ABANDON IN HH 7:
- ▲ PULL BACK TO HH 7 2" PVC
- 1-2/C #14

- PED PB STATION
- 1-APS PB AND SIGN (RT ARROW) (PB8-2)
- EXTEND INTO HH 8:
- 2" PVC
- 1-2/C #14

- 3" RSC
- 3-12/C #12
- 5-3/C #12
- 2-3/C #20
- 4-2/C #14

- 1 1/4" PVC
- 2-2/C #14

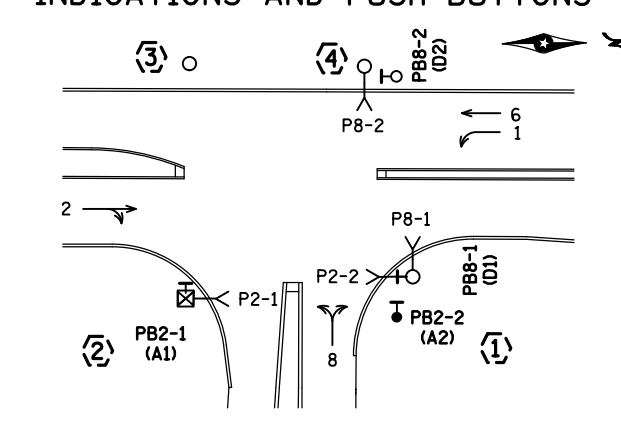


- ▲ REMOVE PED PB STATION
- ▲ SALVAGE 1-APS PB AND SIGN (RT ARROW) (PB4-2)
- ▲ REMOVE IN HH 5:
- ▲ PULL BACK TO HH 5 2" PVC
- 1-2/C #14

- 3" RSC
- 3-12/C #12
- 5-3/C #12
- 2-3/C #20
- 7-2/C #14

- ▲ REMOVE PED PB STATION
- ▲ SALVAGE 1-APS PB AND SIGN (LT ARROW) (PB8-1)
- ▲ REMOVE 2" PVC
- ▲ PULL BACK INTO HH 11:
- 1-2/C #14

**CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS**



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

- 3" RSC
- 1-12/C #12
- 2-3/C #12
- 4-2/C #14
- 1-6PR #19

- ▲ REMOVE PED PB STATION
- ▲ SALVAGE 1-APS PB AND SIGN (LT ARROW) (PB2-1)
- ▲ PULL BACK INTO HH 5:
- 1-2/C #14

- ▲ REMOVE PED PB STATION
- ▲ SALVAGE 1-APS PB AND SIGN (RT ARROW) (PB2-2)
- ▲ REMOVE 2" PVC
- ▲ PULL BACK INTO HH 1:
- 1-2/C #14

- ▲ F&I PED PB STATION
- ▲ INSTALL 1-APS PB AND SIGN (RT ARROW) (PB2-2)
- ▲ F&I 1" CONDUIT
- ▲ INSTALL EXTEND INTO HH 1:
- 1-2/C #14
- ▲ F&I 1-1/C #6 INS GR.

- SIGNAL REVISION NOTES:**
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
  - ENSURE THE EXACT LOCATION OF THE HAND HOLES, POLES, LOOP DETECTORS AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY MN DOT OFFICE PERSONNEL.
  - FOR PAVEMENT MARKINGS SEE PAVEMENT MARKINGS PLANS.
  - FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK SEE DETAIL SHEET.
  - THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
  - USE PVC OR HDPE FOR ALL NEW CONDUIT.
  - CONDUIT SIZES ARE NOMINAL DIAMETER.
  - ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
  - REMOVE PED PB STATION INCLUDES REMOVAL OF THE EXISTING FOUNDATION AND CONDUIT.

**SIGNAL SYSTEM OPERATION**

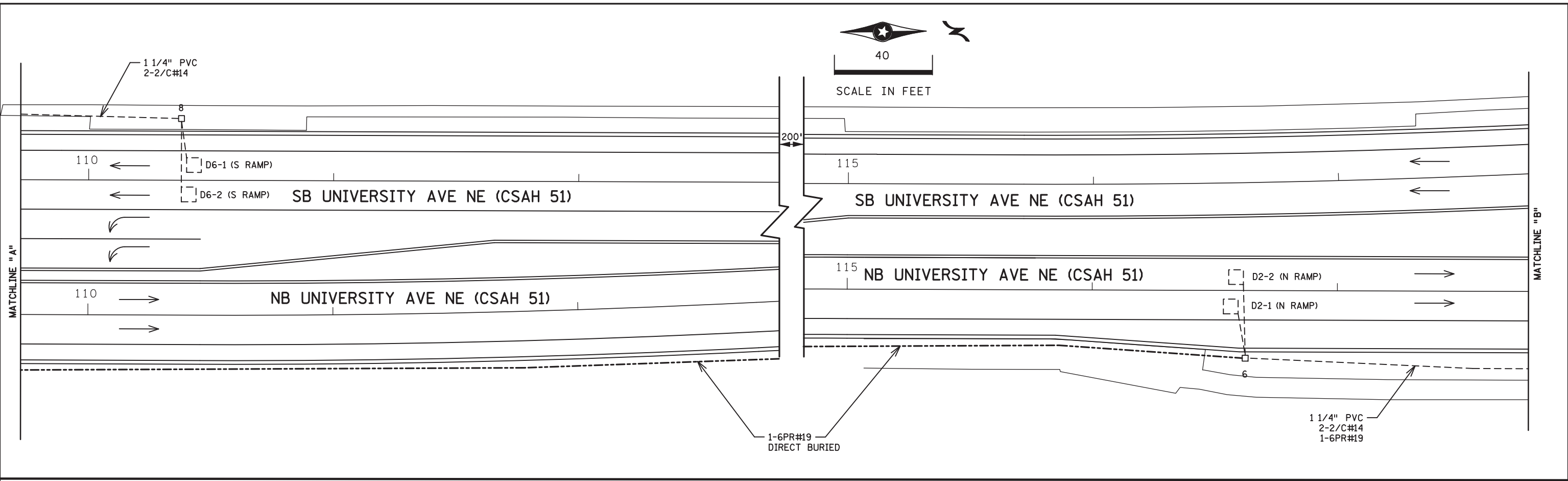
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

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

DISTRICT #: Metro  
IPLOT NAME: T22126L.sgl  
PATH & FILENAME: Projects\DM\_Ros\010\0000\Traffic\Signals\234.3 THIO @ (51) UNIVERSITY AVE NE N RAMP 1736079\T22126L.sgl REVISED: 14-JAN-2022

BY	DATE	REVISIONS	SYSTEM ID: 1736079	T.E. 21503	S.A.P. NO.	DRAWN BY: JBA	CKD BY: JDC	DATE: 04/06/20
			METER ADDRESS: 9401 UNIVERSITY AVE. NE	REVISE TRAFFIC CONTROL SIGNAL SYSTEM D	CERTIFIED BY: <i>Michael P. Libinsky</i>			LIC. NO. 19863 DATE: 04/07/2020
			OLD SYSTEM ID: 22126	T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51)				STATE PROJ. NO. 0214-48 (T.H.10) SHEET NO. SS15 OF SS27 SHEETS
				NORTH RAMP				
				IN BLAINE & COON RAPIDS, ANOKA COUNTY				

DISTRICT #: Metro  
 PLOT NAME: T22126.sgl\_systemD\_M  
 PATH & FILENAME: Projects\DM\_R05\010\0000\Traffic\Signals\22126-T10&slashed610 AT 151UNIV AVE N RAMP\PENDING\T22126-T10&slashed610.DWG / REVISED: 7-APR-2020



- (3) PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)  
 3-ONE WAY SIGNALS OVERHEAD  
 (0', 17' AND 29' FROM END OF MAST ARM)  
 TYPE 20B
- ▲ REMOVE [ ] 1-CD PED HEAD MOUNTED AT 270 DEG LUMINAIRE-200W HPS
  - ▲ F&I [ ] 1-SIGN (R9-3)
  - 3" RSC TO HH 7:
  - 2-12/C #12
  - 3-3/C #12
  - 1-3/C #20

- (2) PEDESTAL FOUNDATION  
 10' SIGNAL PEDESTAL POLE PLUS BASE  
 TYPE 1F WITH 1-CD PED HEAD
- ▲ REMOVE [ ] 1-CD PED HEAD
  - 1-SIGN (R6-1L) ONE WAY
  - 1-SIGN (R6-1R) ONE WAY
  - ▲ F&I [ ] 1-APS PB AND APS PB MOUNTING SPACERS
  - 1-SIGN (R9-3)
  - ▲ INSTALL [ ] 1-APS PB (PB2-1)
  - 3" RSC TO HH 5:
  - 1-12/C #12
  - 2-3/C #12
  - INTO HH 5:
  - ▲ INSTALL [ ] 1-2/C #14 (PB2-1)

- (4) PA85 POLE FOUNDATION  
 TYPE PA85-A-15  
 ONE WAY SIGNAL OVERHEAD  
 TYPE 10B WITH CD PED HEAD AT 270 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 8)
- 3" RSC TO HH 8:
  - 1-12/C #12
  - 2-3/C #12
  - 1-3/C #20

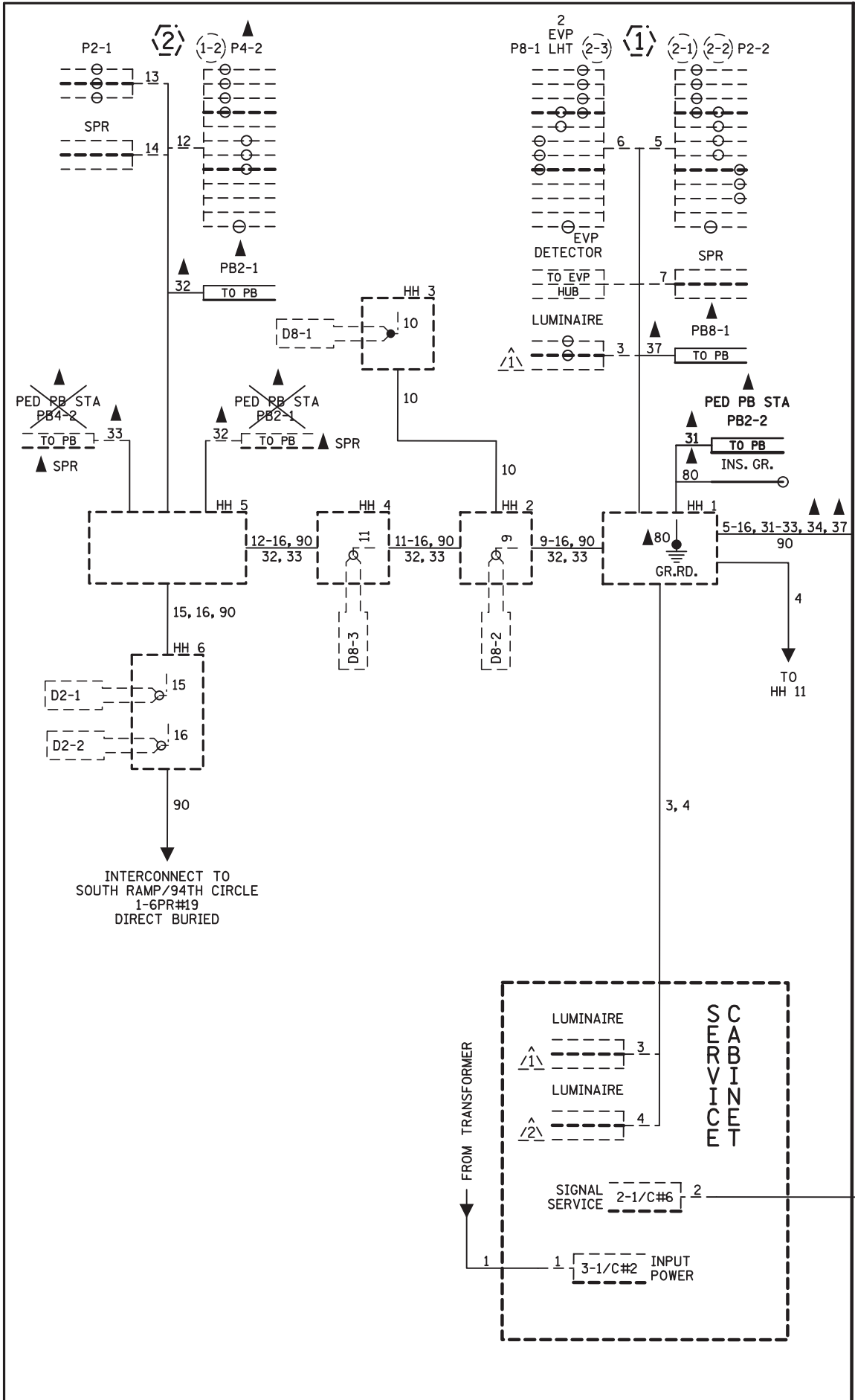
- (1) PA100 POLE FOUNDATION  
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)  
 2-ONE WAY SIGNALS OVERHEAD  
 (0' AND 11' FROM END OF MAST ARM)  
 TYPE 10C AT WITH 2-CD PED HEADS AT 270 DEG  
 LUMINAIRE-200W HPS  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 2)
- 1-SIGN (R6-1R) ONE WAY
  - 1-SIGN (R6-1L) ONE WAY
  - ▲ F&I [ ] 1-APS POLE MOUNTING ADAPTOR
  - ▲ INSTALL [ ] 1-APS PUSH BUTTON & SIGN (LT ARROW) (PB8-1)
  - 3" RSC TO HH 1:
  - 2-12/C #12
  - 2-3/C #12
  - 1-3/C #20
  - ▲ F&I [ ] 1-2/C #14 (PB8-1)

- (A) EQUIPMENT PAD  
 SERVICE CABINET  
 CONTROLLER AND CABINET
- 4" RSC TO HH 1: 4" RSC TO HH 11:
  - 3-12/C #12 3-12/C #12
  - 3-3/C #12 4-3/C #12
  - 1-3/C #20 2-3/C #20
  - 8-2/C #14 8-2/C #14
  - 1-6PR #19 1-2/C #14 (PB8-1) [ ] REMOVE ▲
  - ▲ F&I [ ] 1-2/C #14 (PB8-1)
  - 3" RSC STUBBED OUT (THREADED AND CAPPED BOTH ENDS)
  - SERVICE CABINET TO CONTROLLER CABINET:
  - 2" RSC
  - 2-1/C #6
  - 1-1/C #6 INS. GR.
  - SERVICE CABINET TO HH 1:
  - 2" RSC
  - 2-3/C #12
  - SERVICE CABINET TO TRANSFORMER:
  - 2" RSC
  - 3-1/C #2
  - HH 2 TO HH 11:
  - 2" RSC
  - 1-3/C #12

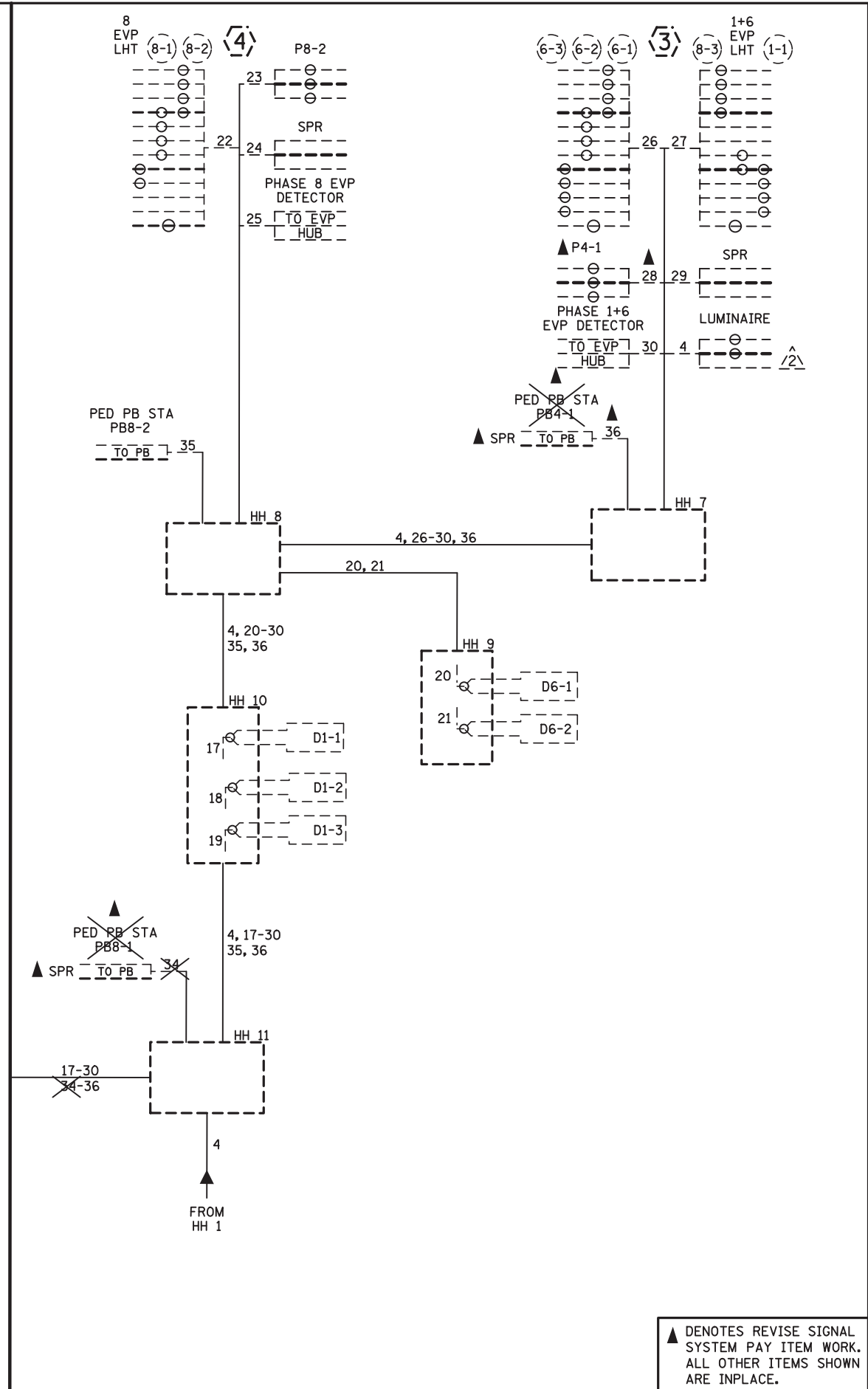
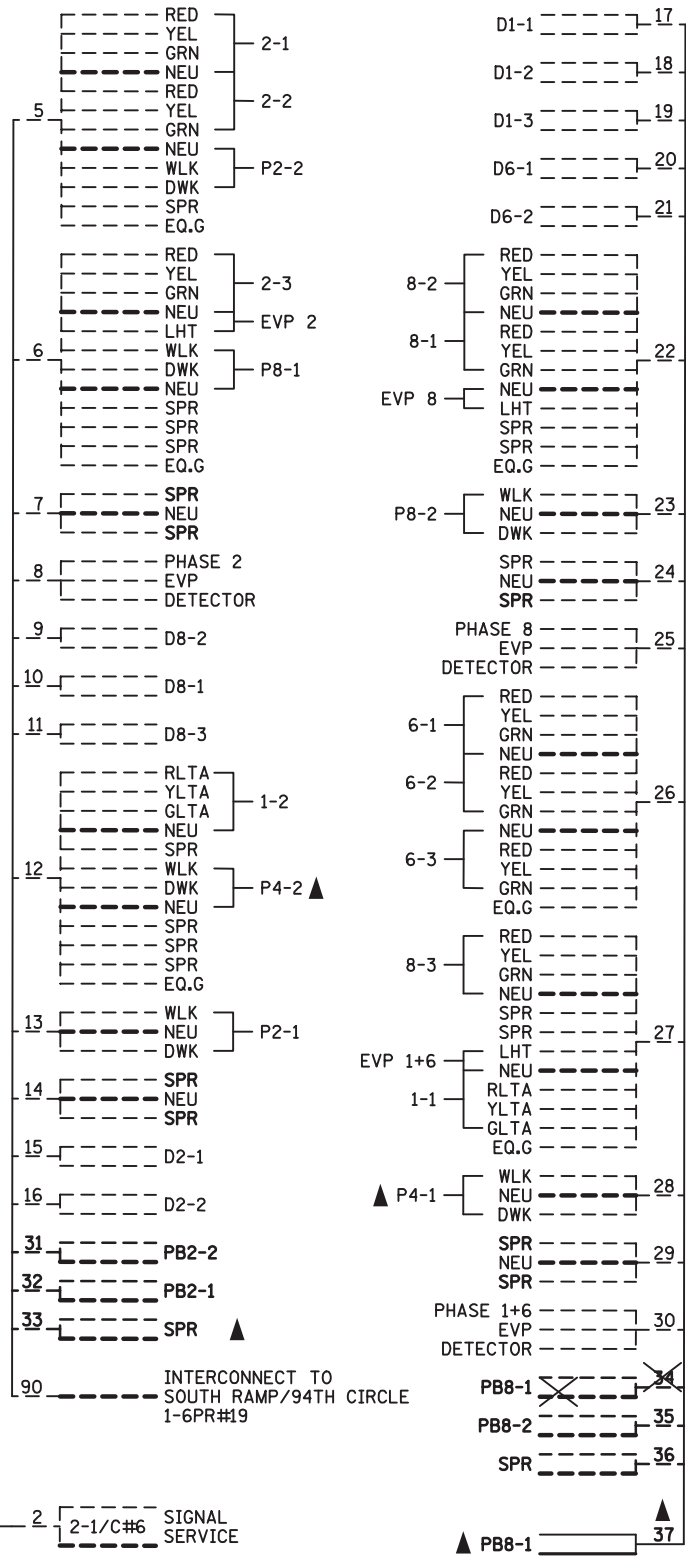
- (B) GROUND MOUNT TRANSFORMER  
 2" RSC TO SERVICE CABINET:  
 3-1/C #2

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

BY	DATE	REVISIONS	SYSTEM ID: 1736079	T.E. 21503	MATCH LINE/INTERSECTION NOTES	S.A.P. NO.	DRAWN BY: JBA	CKD BY: JDC	DATE: 04/06/20
			METER ADDRESS: 9401 UNIVERSITY AVE. NE		REVISE TRAFFIC CONTROL SIGNAL SYSTEM D	CERTIFIED BY: <i>Michael P. Libinsky</i>			
			OLD SYSTEM ID: 22126		T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51)	LIC. NO. 19863			DATE: 04/07/2020
					NORTH RAMP				
					IN BLAINE & COON RAPIDS, ANOKA COUNTY	STATE PROJ. NO. 0214-48 (T.H.10)			SHEET NO. SS16 OF SS27 SHEETS



### CONTROLLER CABINET



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

BY	DATE	REVISIONS

SYSTEM ID: 1736079	T.E. 21503
METER ADDRESS: 9401 UNIVERSITY AVE. NE	
OLD SYSTEM ID: 22126	

**FIELD WIRING DIAGRAM**  
 REVISE TRAFFIC CONTROL SIGNAL SYSTEM D T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51) NORTH RAMP IN BLAINE & COON RAPIDS, ANOKA COUNTY

S.A.P. NO.	DRAWN BY: JBA	CKD BY: JDC	DATE: 04/06/20
CERTIFIED BY: <i>Michael P. Lubinsky</i>	LIC. NO. 19863	DATE: 04/07/2020	
STATE PROJ. NO. 0214-48 (T.H.10)		SHEET NO. SS17 OF SS27 SHEETS	

**LOOP DETECTOR CHART**

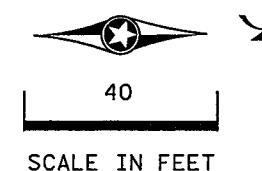
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	37
D1-3	2-6x6	7
D2-1, D2-2	6x6	293
D6-1, 6-2	6x6	302
D8-1	2-6x6	118
D8-2	6x15	-3
D8-3	6x6	18

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

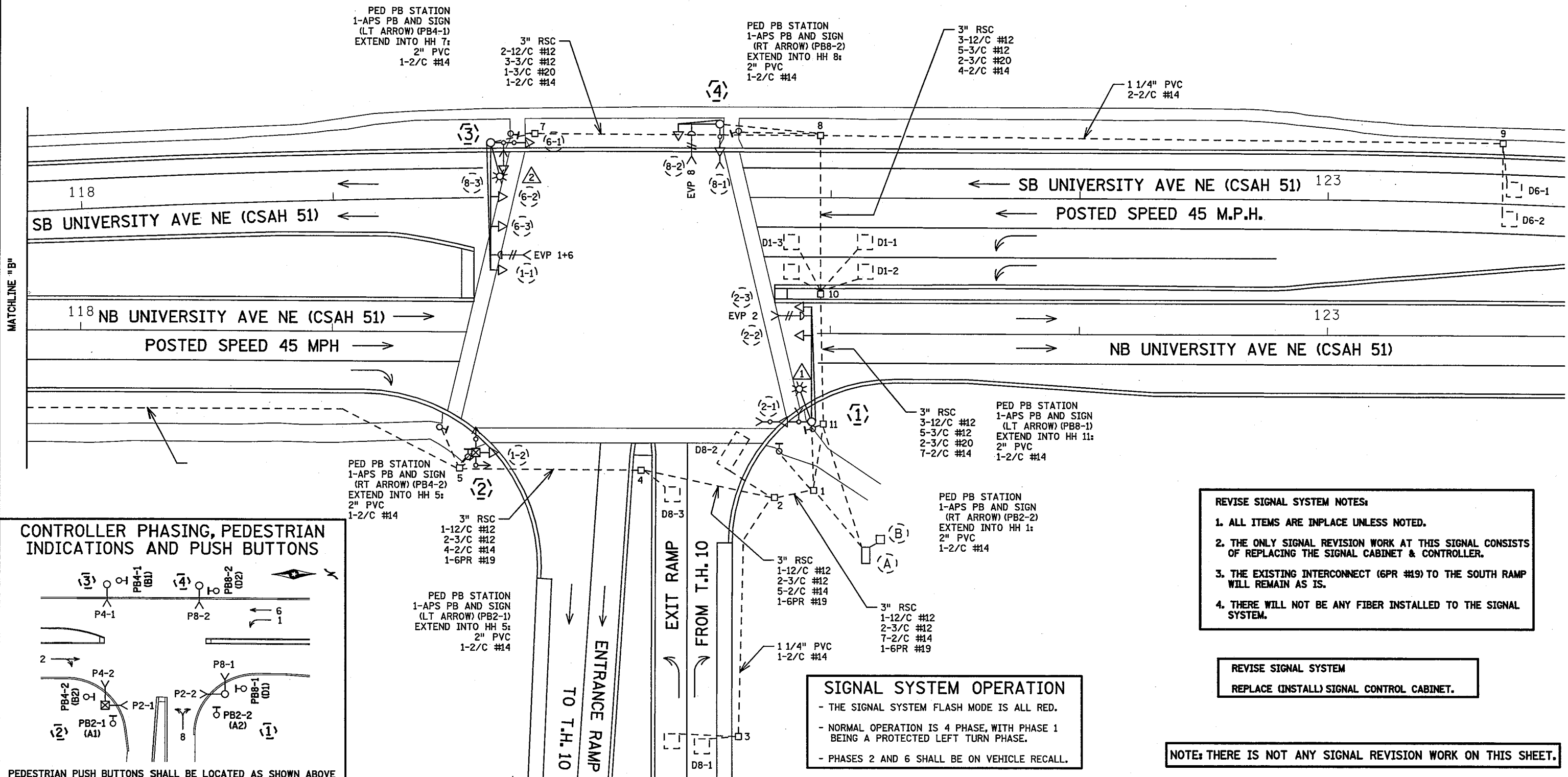
**SIGNAL HEAD CHART**

FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	○	○	○
6-1, 6-2, 6-3	○	○	○
8-1, 8-2, 8-3	○	○	○

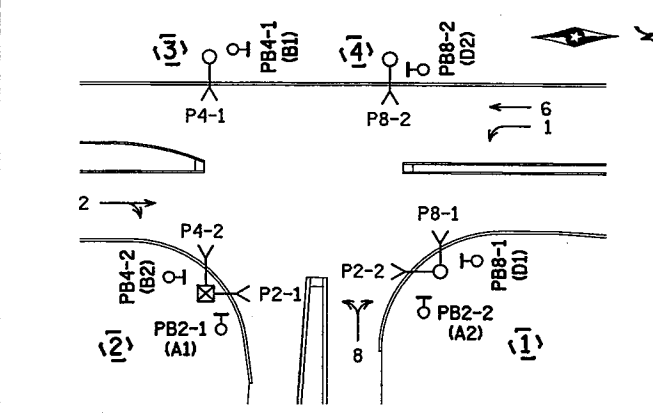
-ALL SIGNAL INDICATIONS ARE  
12" LED  
-ALL SIGNAL HEADS HAVE  
BACKGROUND SHIELDS



PLOTTED/REVISED: 8/7/2017



**CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS**



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

- REVISE SIGNAL SYSTEM NOTES:**
1. ALL ITEMS ARE INPLACE UNLESS NOTED.
  2. THE ONLY SIGNAL REVISION WORK AT THIS SIGNAL CONSISTS OF REPLACING THE SIGNAL CABINET & CONTROLLER.
  3. THE EXISTING INTERCONNECT (GPR #19) TO THE SOUTH RAMP WILL REMAIN AS IS.
  4. THERE WILL NOT BE ANY FIBER INSTALLED TO THE SIGNAL SYSTEM.

**REVISE SIGNAL SYSTEM**  
REPLACE (INSTALL) SIGNAL CONTROL CABINET.

**SIGNAL SYSTEM OPERATION**

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

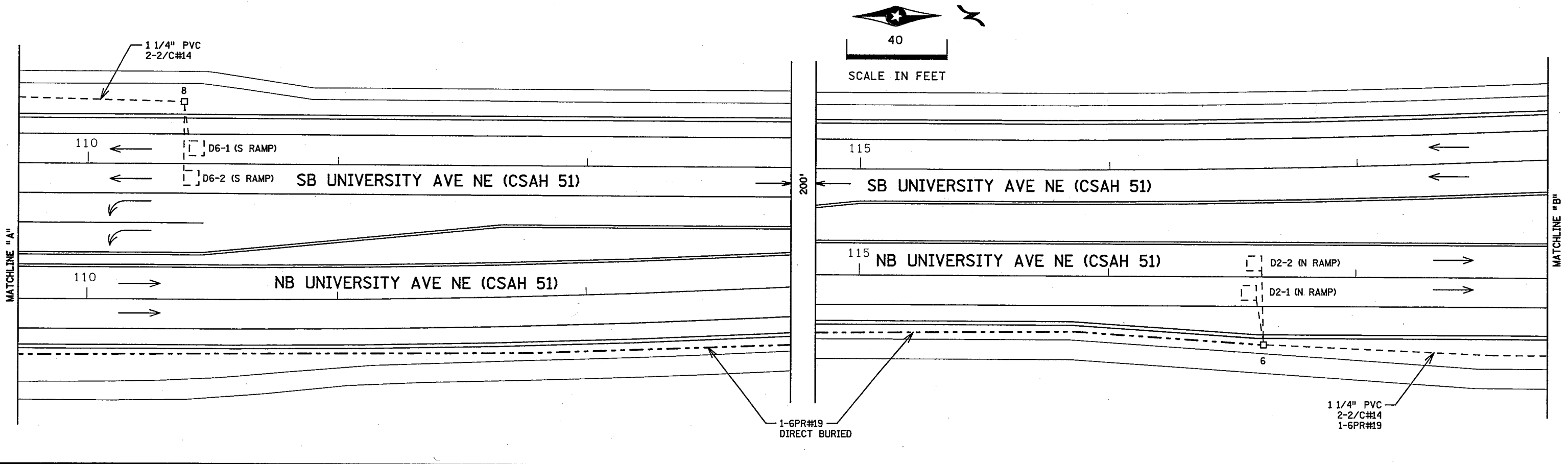
**NOTE: THERE IS NOT ANY SIGNAL REVISION WORK ON THIS SHEET.**

DISTRICT #: METRO  
PLOT NAME: IO NORTH RAMP LAYOUT  
PATH & FILENAME: IP\_PWP-d182689622126A\_SGL.dgn

BY	DATE	REVISIONS	SYSTEM ID: 1736079	T.E. 2670	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 6-19-17
			METER ADDRESS: 9401 UNIVERSITY AVE. NE	T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51)	CERTIFIED BY: <i>Michael P. Gelinsky</i>	LIC. NO. 19863	DATE: 6-23-17	
			OLD ID: 22126	T.E.	STATE PROJ. NO. 0205-101 (T.H.47)		SHEET NO. SS58 OF SS60 SHEETS	

PLOTTED/REVISED: 8/7/2017

DISTRICT #: METRO  
PLOT NAME: 10 NORTH RAMP NOTES  
PATH & FILENAME: IP\_PWP-d1826896\22126A\_SGL.dgn



- (3) PA100 POLE FOUNDATION  
TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)  
3-ONE WAY SIGNALS OVERHEAD  
(0', 17' AND 29' FROM END OF MAST ARM)  
TYPE 20B WITH CD PED HEAD AT 270 DEG  
LUMINAIRE-200W HPS  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (PHASES 1+6)  
3" RSC TO HH 7:  
2-12/C #12  
3-3/C #12  
1-3/C #20

- (2) PEDESTAL FOUNDATION  
10' SIGNAL PEDESTAL POLE PLUS BASE  
TYPE 1F WITH 2-CD PED HEADS  
1-SIGN (R6-1L) ONE WAY  
1-SIGN (R6-1R) ONE WAY  
3" RSC TO HH 5:  
1-12/C #12  
2-3/C #12

- (4) PA85 POLE FOUNDATION  
TYPE PA85-A-15  
ONE WAY SIGNAL OVERHEAD  
TYPE 10B WITH CD PED HEAD AT 270 DEG  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (PHASE 8)  
3" RSC TO HH 8:  
1-12/C #12  
2-3/C #12  
1-3/C #20

- (1) PA100 POLE FOUNDATION  
TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)  
2-ONE WAY SIGNALS OVERHEAD  
(0' AND 11' FROM END OF MAST ARM)  
TYPE 10C AT WITH 2-CD PED HEADS AT 270 AT DEG  
LUMINAIRE-200W HPS  
ONE WAY EVP DETECTOR AND  
CONFIRMATORY LIGHT (PHASE 2)  
1-SIGN (R6-1R) ONE WAY  
3" RSC TO HH 1:  
2-12/C #12  
2-3/C #12  
1-3/C #20

- (A) EQUIPMENT PAD  
SERVICE CABINET  
CONTROLLER AND CABINET  
REPLACE (INSTALL) 4" RSC TO HH 1:  
3-12/C #12  
3-3/C #12  
1-3/C #20  
8-2/C #14  
1-6PR #19  
3" RSC STUBBED OUT (THREADED  
AND CAPPED BOTH ENDS)  
SERVICE CABINET TO CONTROLLER CABINET:  
2" RSC  
2-1/C #6  
1-1/C #6 INS. GR.  
SERVICE CABINET TO HH 1:  
2" RSC  
2-3/C #12  
SERVICE CABINET TO TRANSFORMER:  
2" RSC  
3-1/C #2  
HH 2 TO HH 11:  
2" RSC  
1-3/C #12

- (B) GROUND MOUNT TRANSFORMER  
2" RSC TO SERVICE CABINET:  
3-1/C #2

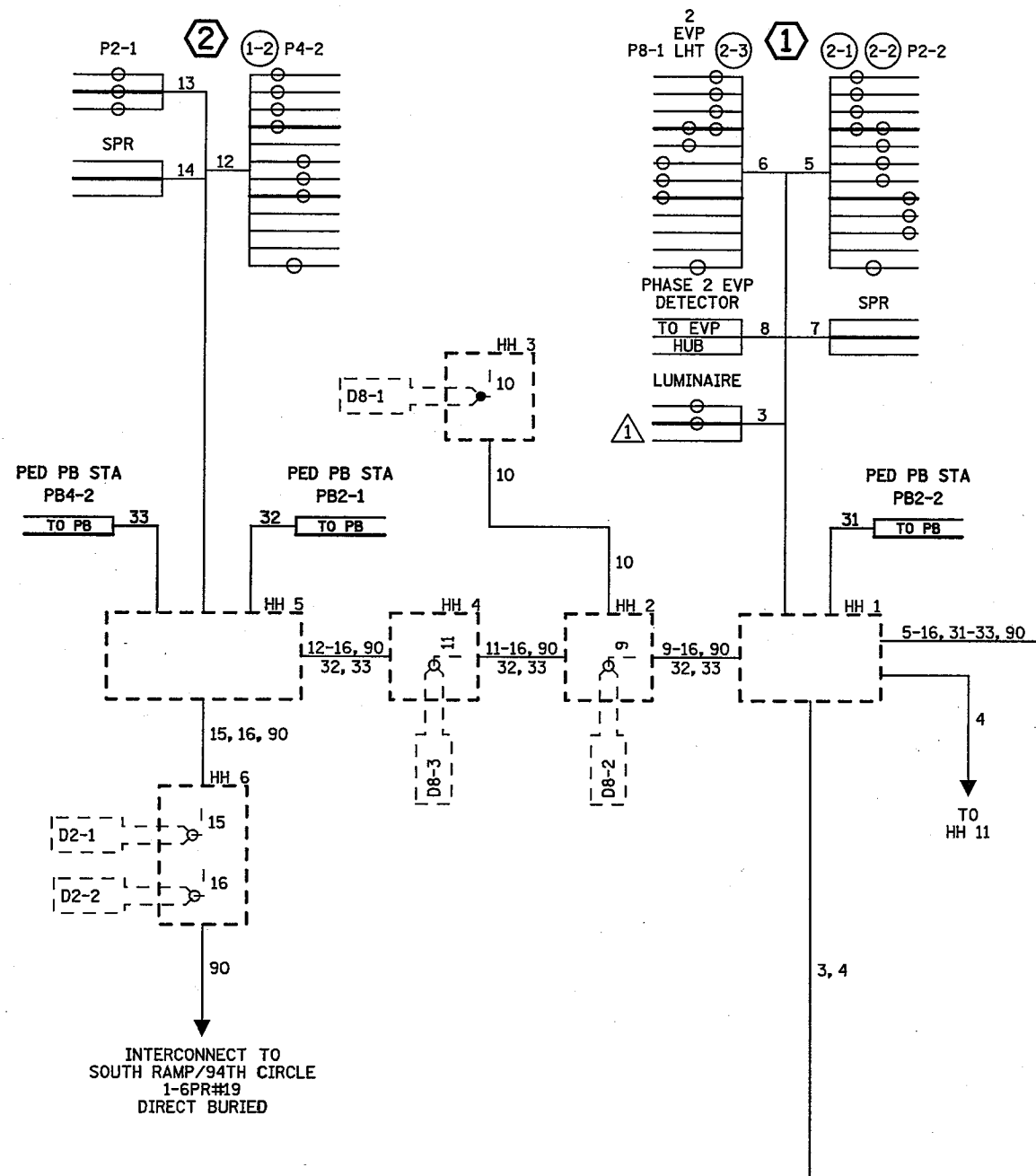
**REVISE SIGNAL SYSTEM NOTES:**

1. ALL ITEMS ARE INPLACE UNLESS NOTED.
2. THE ONLY SIGNAL REVISION WORK AT THIS SIGNAL CONSISTS OF REPLACING THE SIGNAL CABINET & CONTROLLER.
3. THE EXISTING INTERCONNECT (6PR #19) TO THE SOUTH RAMP WILL REMAIN AS IS.
4. THERE WILL NOT BE ANY FIBER INSTALLED TO THE SIGNAL SYSTEM.

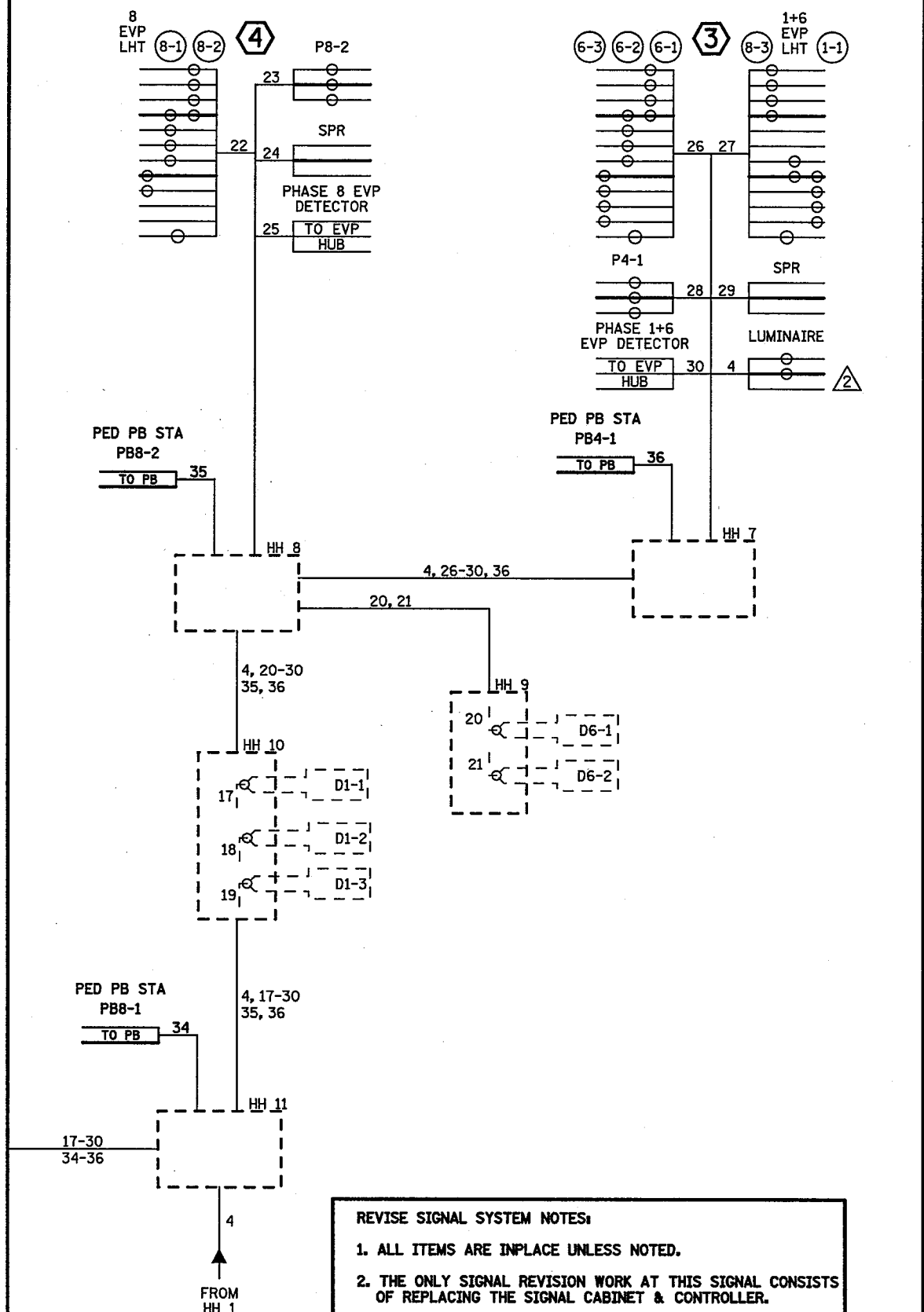
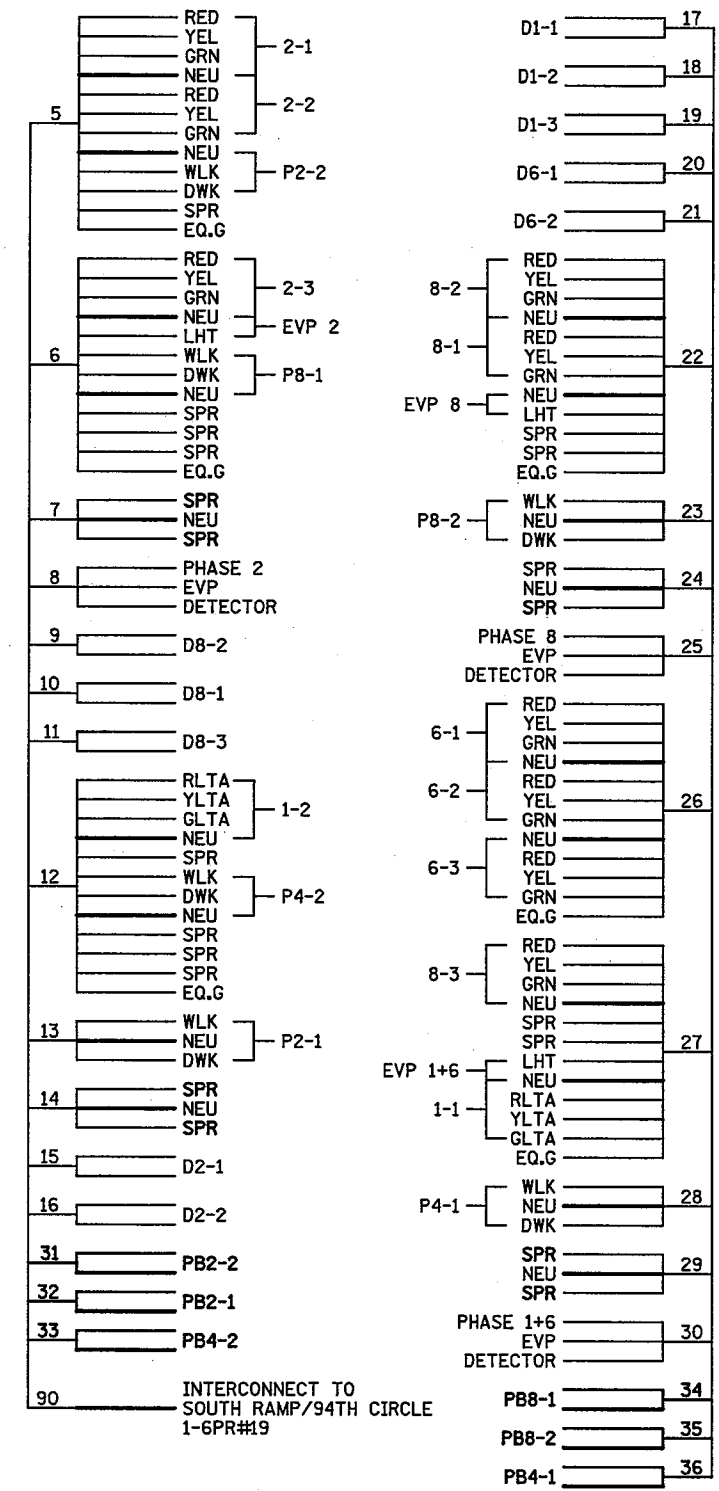
BY	DATE	REVISIONS	SYSTEM ID: 1736079	T.E. 2670	MATCHLINE AND NOTES	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 6-19-17
			METER ADDRESS: 9401 UNIVERSITY AVE. NE		REVISE SIGNAL SYSTEM "R"	CERTIFIED BY: <i>Michael P. Lubinsky</i>	LIC. NO. 19863		DATE: 6-23-17
			OLD ID: 22126	T.E.	T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51)	LICENSED PROFESSIONAL ENGINEER			
					NORTH RAMP	STATE PROJ. NO. 0205-101 (T.H.47)		SHEET NO. SS59 OF SS60 SHEETS	
					IN BLAINE & COON RAPIDS, ANOKA COUNTY				

PLOTTED/REVISED: 8/7/2017

DISTRICT #: METRO  
PLOT NAME: 10 NORTH RAMP WIRE  
PATH & FILENAME: IP\_PWP-d1826896-22126A\_SGL.dgn



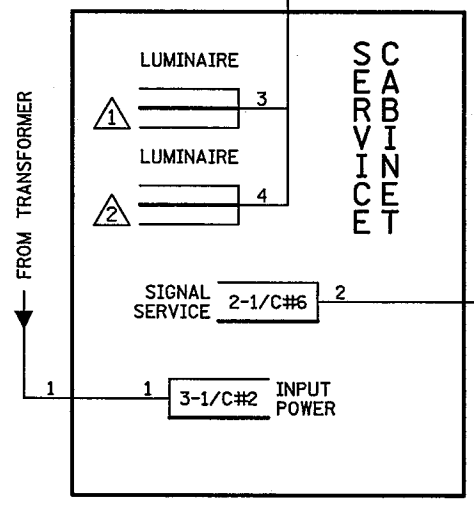
### CONTROLLER CABINET



### CONDUCTOR COLOR CODE

R	3/C#12	R
BL		WH
WH		BLK
R/BLK	2/C#14	BLK
O/BLK		CLR
BL/BLK		
WH/BLK	3/C#20	R
BLK		WH
BLK/WH		BLK
G/BLK		
G	2-1/C#4	BLK
	2-1/C#6	WH
R		
O	5/C#12	
BL		
WH		
G		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED



**REVISE SIGNAL SYSTEM NOTES:**

1. ALL ITEMS ARE INPLACE UNLESS NOTED.
2. THE ONLY SIGNAL REVISION WORK AT THIS SIGNAL CONSISTS OF REPLACING THE SIGNAL CABINET & CONTROLLER.
3. THE EXISTING INTERCONNECT (6PR #19) TO THE SOUTH RAMP WILL REMAIN AS IS.
4. THERE WILL NOT BE ANY FIBER INSTALLED TO THE SIGNAL SYSTEM.

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

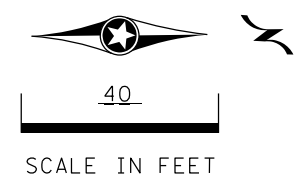
BY	DATE	REVISIONS	SYSTEM ID: 1736079	T.E. 2670	FIELD WIRING DIAGRAM	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 6-19-17
			METER ADDRESS: 9401 UNIVERSITY AVE. NE		REVISE SIGNAL SYSTEM "R"	CERTIFIED BY: <i>Michael P. Sulmasy</i>	LIC. NO. 19863	DATE: 6-23-17	
			OLD ID: 22126	T.E.	T.H. 610/10 AT UNIVERSITY AVE NE (CSAH 51)	LICENSED PROFESSIONAL ENGINEER			
					NORTH RAMP				
					IN BLAINE & COON RAPIDS, ANOKA COUNTY	STATE PROJ. NO. 0205-101 (T.H.47)			SHEET NO. SS60 OF SS60 SHEETS

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	37
D1-3	2-6x6	7
D2-1, D2-2	6x6	293
D6-1, 6-2	6x6	302
D8-1	2-6x6	118
D8-2	6x15	-3
D8-3	6x6	18

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

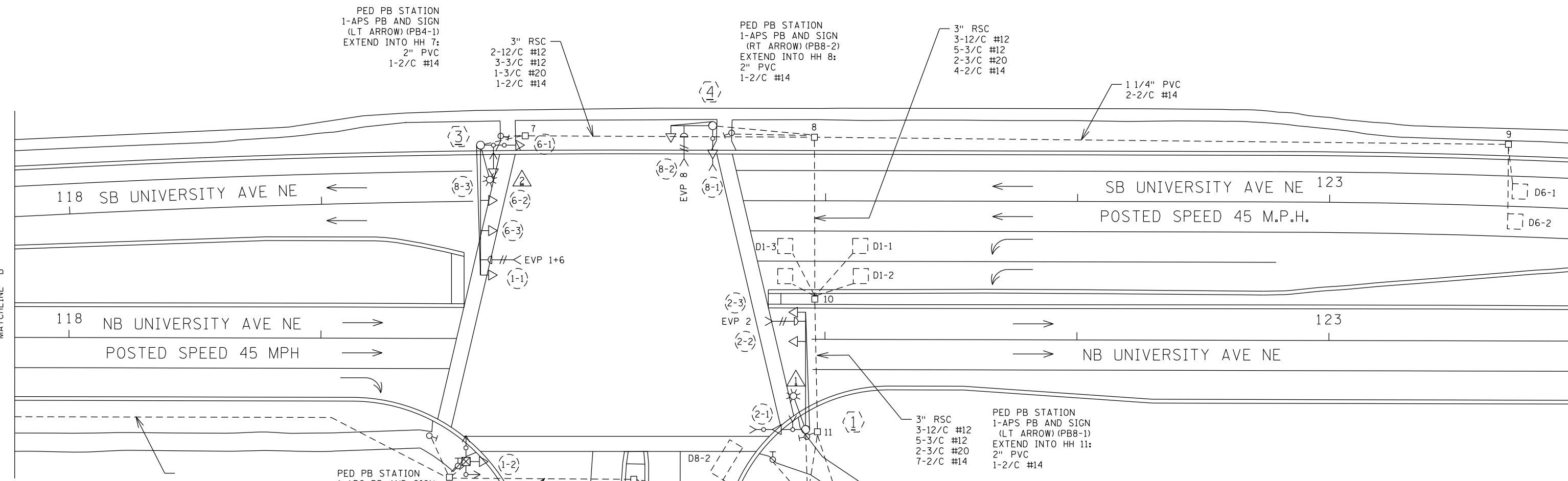
SIGNAL HEAD CHART			
FACE	R	Y	G
1-1, 1-2	◀	◀	◀
2-1, 2-2, 2-3	○	○	○
6-1, 6-2, 6-3	○	○	○
8-1, 8-2, 8-3	○	○	○

-ALL SIGNAL INDICATIONS ARE  
 12" LED  
 -ALL SIGNAL HEADS HAVE  
 BACKGROUND SHIELDS

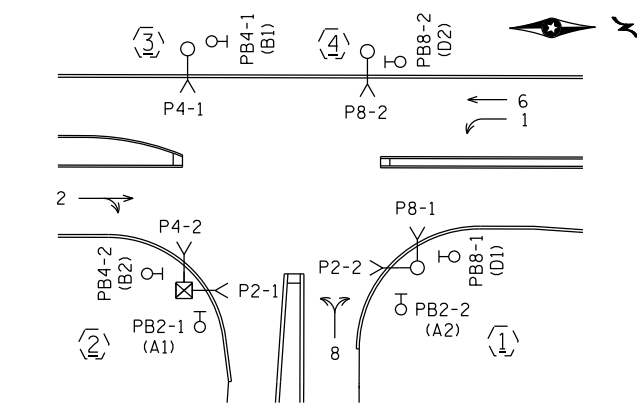


PLOTTED/REVISED: \$\$\$@DATE@\$\$\$

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



**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 4 PHASE, WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS
EJA	07-23-15	AS-BUILT OF SP 8825-393 APS ADDED

SYSTEM ID: 22126 T.E. \_\_\_\_\_  
 METER ADDRESS: 9601 UNIVERSITY AVE NE  
 MASTER ID: \_\_\_\_\_ T.E. \_\_\_\_\_

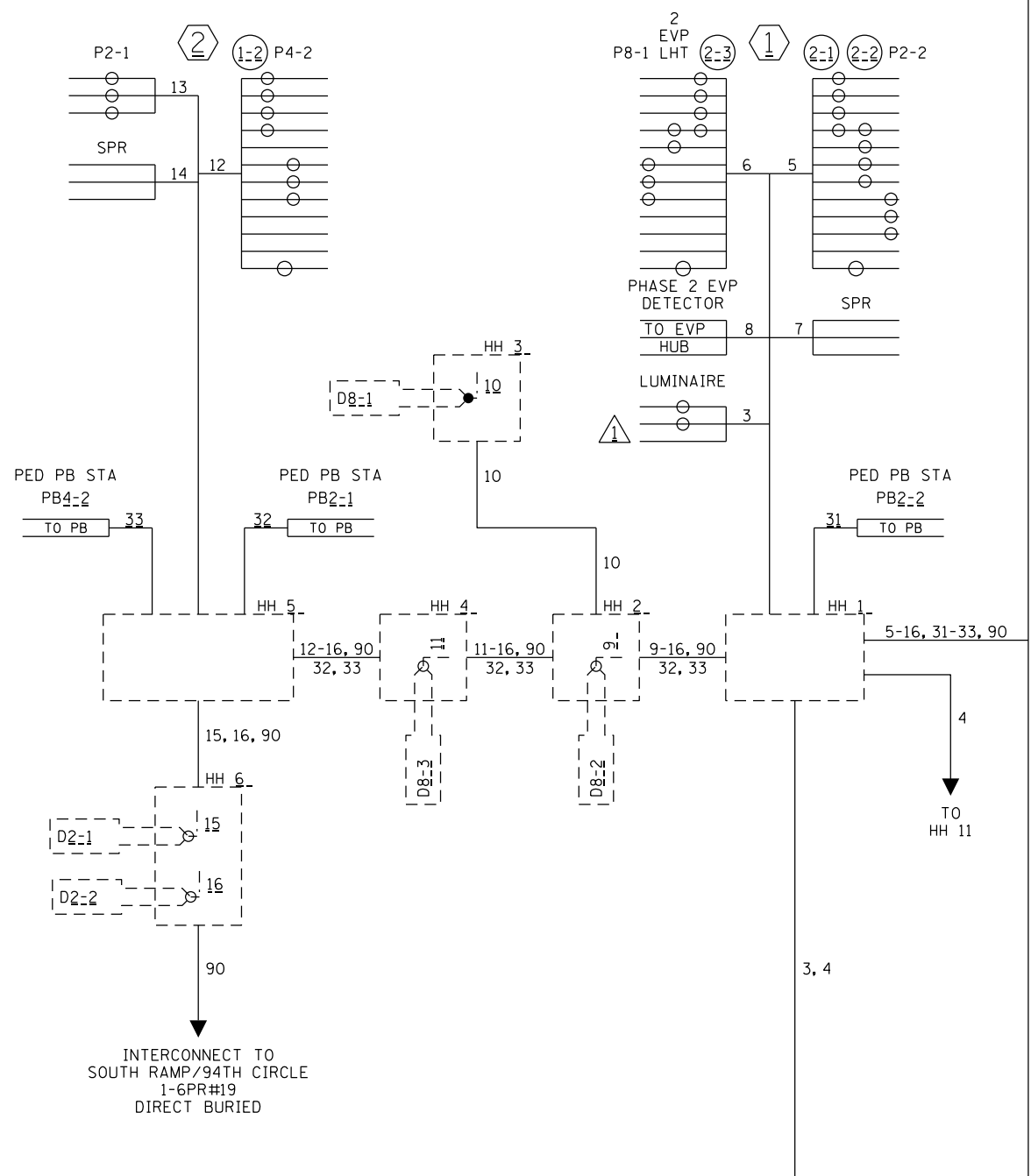
INTERSECTION LAYOUT  
 TH 10/610 AT CSAH 51 (UNIVERSITY AVE NE)  
 NORTH RAMP  
 IN BLAINE AND COON RAPIDS, ANOKA COUNTY

S.A.P. NO. \_\_\_\_\_ DRAWN BY: GDS CKD BY: BIJ DATE: 4-21-11  
 CERTIFIED BY \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 STATE PROJ. NO. \_\_\_\_\_ SHEET NO. 1 OF 3 SHEETS

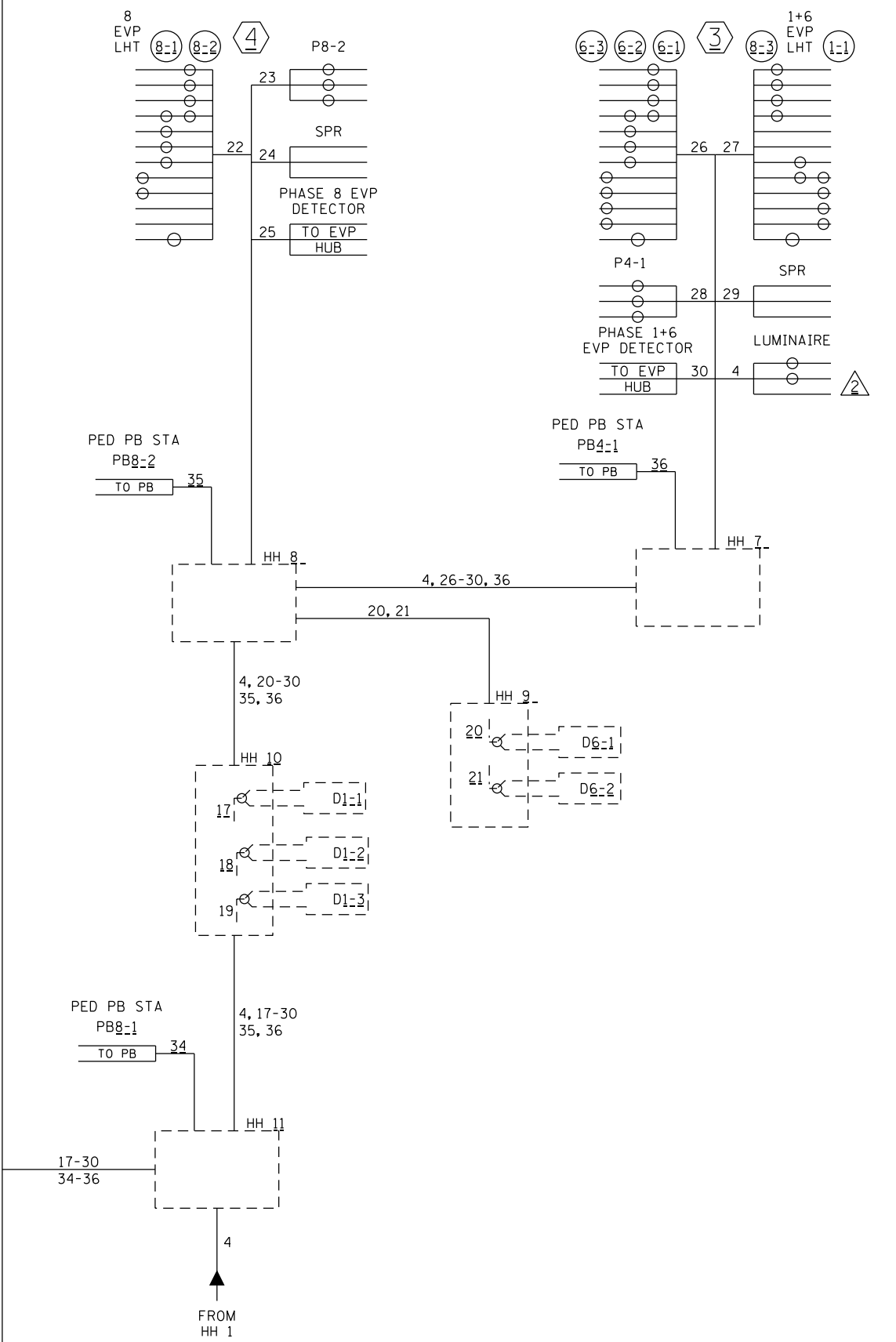
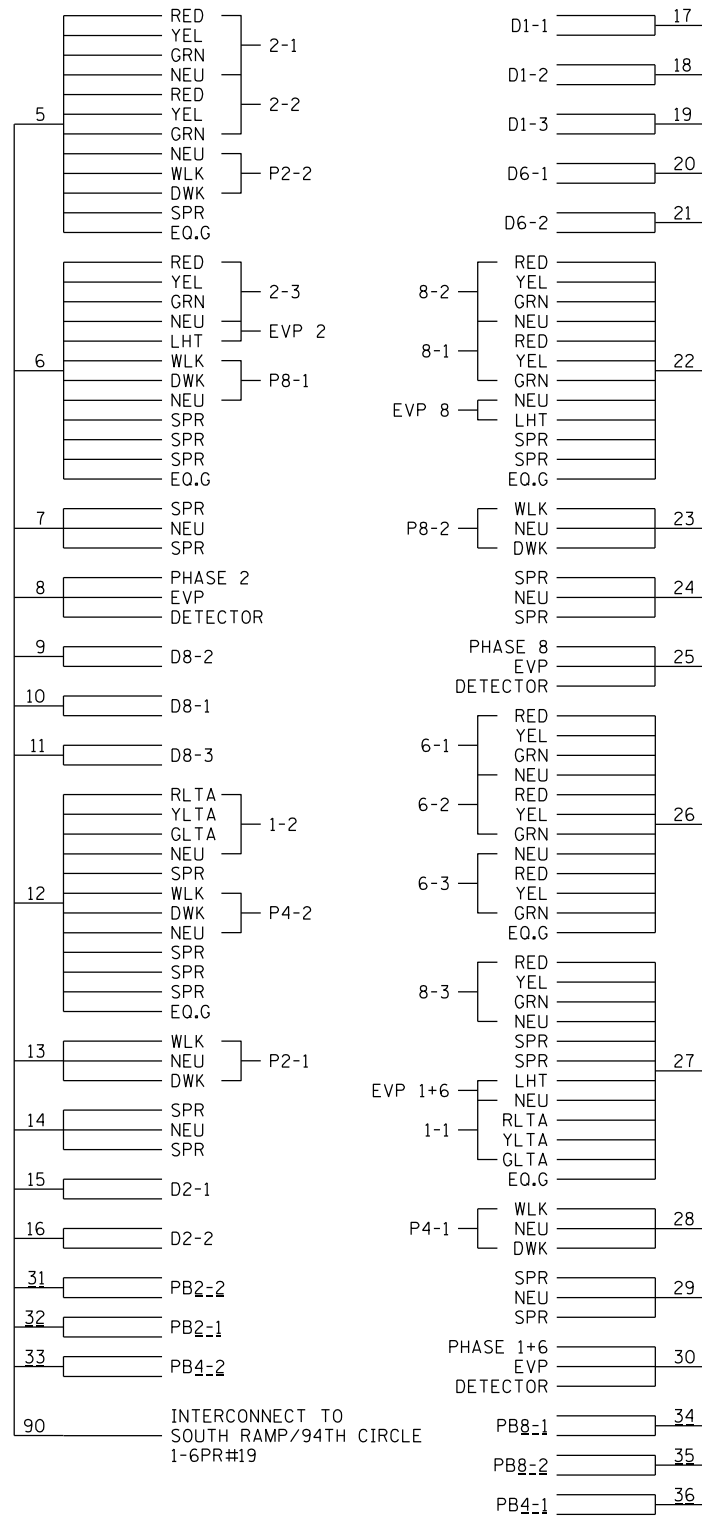


PLOTTED/REVISED: \$\$\$@DATE@\$\$\$

DISTRICT #: \$\$\$@DISTRICT@\$\$  
PLOT NAME: \$\$\$@PLOT\$NAME@\$\$  
PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$



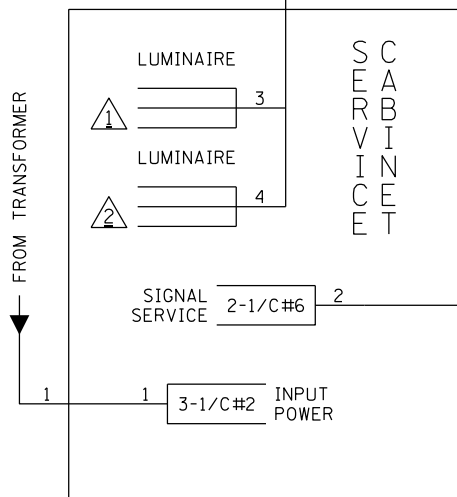
### CONTROLLER CABINET



### CONDUCTOR COLOR CODE

R	R
O	3/C#12 WH
BL	BLK
WH	
R/BLK	2/C#14 BLK
O/BLK	CLR
BL/BLK	
WH/BLK	3/C#20 R
BLK	WH
BLK/WH	BLK
G/BLK	
G	2-1/C#4 BLK
	2-1/C#6 WH
R	
O	
BL	
WH	
G	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED



BY	DATE	REVISIONS
EJA	07-23-15	AS-BUILT OF SP 8825-393 APS ADDED

SYSTEM ID: 22126 T.E. 5374  
 METER ADDRESS: 9601-UNIVERSITY AVE NE  
 MASTER ID: T.E.

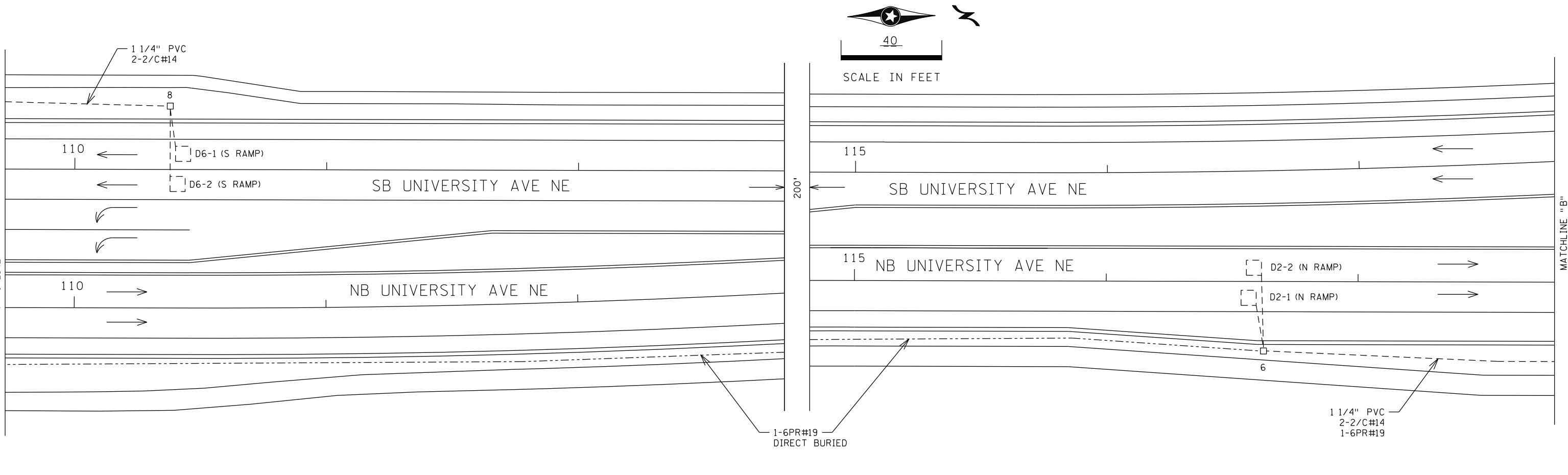
WIRING DIAGRAM  
 TH 10/610 AT CSAH 51 (UNIVERSITY AVE NE)  
 NORTH RAMP  
 IN BLAINE AND COON RAPIDS, ANOKA COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: BIJ	DATE: 4-21-11
CERTIFIED BY	LIC. NO.	DATE:	
STATE PROJ. NO.	SHEET NO. 3 OF 3 SHEETS		



PLOTTED/REVISED: \$\$\$@DATE@\$\$\$

DISTRICT #: \$\$\$@DISTRICT@  
PLOT NAME: \$\$\$@PLOT\$NAME@\$\$  
PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$



(3) PA100 POLE FOUNDATION  
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)  
 3-ONE WAY SIGNALS OVERHEAD  
 (0', 17' AND 29' FROM END OF MAST ARM)  
 TYPE 20B WITH CD PED HEAD AT 270 DEG  
 LUMINAIRE-200W HPS  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASES 1+6)  
 3" RSC TO HH 7:  
 2-12/C #12  
 3-3/C #12  
 1-3/C #20

(4) PA85 POLE FOUNDATION  
 TYPE PA85-A-15  
 ONE WAY SIGNAL OVERHEAD  
 TYPE 10B WITH CD PED HEAD AT 270 DEG  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 8)  
 3" RSC TO HH 8:  
 1-12/C #12  
 2-3/C #12  
 1-3/C #20

(A) EQUIPMENT PAD  
 SERVICE CABINET  
 CONTROLLER AND CABINET:  
 4" RSC TO HH 1: 4" RSC TO HH 11:  
 3-12/C #12 3-12/C #12  
 3-3/C #12 4-3/C #12  
 1-3/C #20 2-3/C #20  
 8-2/C #14 8-2/C #14  
 1-6PR #19  
 3" RSC STUBBED OUT (THREADED  
 AND CAPPED BOTH ENDS)  
 SERVICE CABINET TO CONTROLLER CABINET:  
 2" RSC  
 2-1/C #6  
 1-1/C #6 INS. GR.  
 SERVICE CABINET TO HH 1:  
 2" RSC  
 2-3/C #12  
 SERVICE CABINET TO TRANSFORMER:  
 2" RSC  
 3-1/C #2  
 HH 2 TO HH 11:  
 2" RSC  
 1-3/C #12

(2) PEDESTAL FOUNDATION  
 10' SIGNAL PEDESTAL POLE PLUS BASE  
 TYPE 1F WITH 2-CD PED HEADS  
 1-SIGN (R6-1L) ONE WAY  
 1-SIGN (R6-1R) ONE WAY  
 3" RSC TO HH 5:  
 1-12/C #12  
 2-3/C #12

(1) PA100 POLE FOUNDATION  
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)  
 2-ONE WAY SIGNALS OVERHEAD  
 (0' AND 11' FROM END OF MAST ARM)  
 TYPE 10C AT WITH 2-CD PED HEADS AT 270 AT DEG  
 LUMINAIRE-200W HPS  
 ONE WAY EVP DETECTOR AND  
 CONFIRMATORY LIGHT (PHASE 2)  
 1-SIGN (R6-1R) ONE WAY  
 3" RSC TO HH 1:  
 2-12/C #12  
 2-3/C #12  
 1-3/C #20

(B) GROUND MOUNT TRANSFORMER  
 2" RSC TO SERVICE CABINET:  
 3-1/C #2

BY	DATE	REVISIONS
EJA	07-23-15	AS-BUILT OF SP 8825-393 APS ADDED

SYSTEM ID: 22126 \_\_\_\_\_ T.E. \_\_\_\_\_  
 METER ADDRESS: 9601-UNIVERSITY AVE NE \_\_\_\_\_  
 MASTER ID: \_\_\_\_\_ T.E. \_\_\_\_\_

MATCHLINES AND POLE NOTES  
 TH 10/610 AT CSAH 51 (UNIVERSITY AVE NE)  
 NORTH RAMP  
 IN BLAINE AND COON RAPIDS, ANOKA COUNTY

S.A.P. NO. \_\_\_\_\_ DRAWN BY: GDS CKD BY: BIJ DATE: 4-21-11  
 CERTIFIED BY \_\_\_\_\_ LIC. NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
 LICENSED PROFESSIONAL ENGINEER  
 STATE PROJ. NO. \_\_\_\_\_ SHEET NO. 2 OF 3 SHEETS