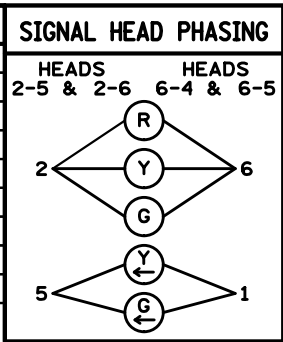


PLOTTED/REVISED: 4/5/2013

DISTRICT #: METRO
IPLOT NAME: layout
PATH & FILENAME: IP_PWP-d0781560V21294_sgl.dgn

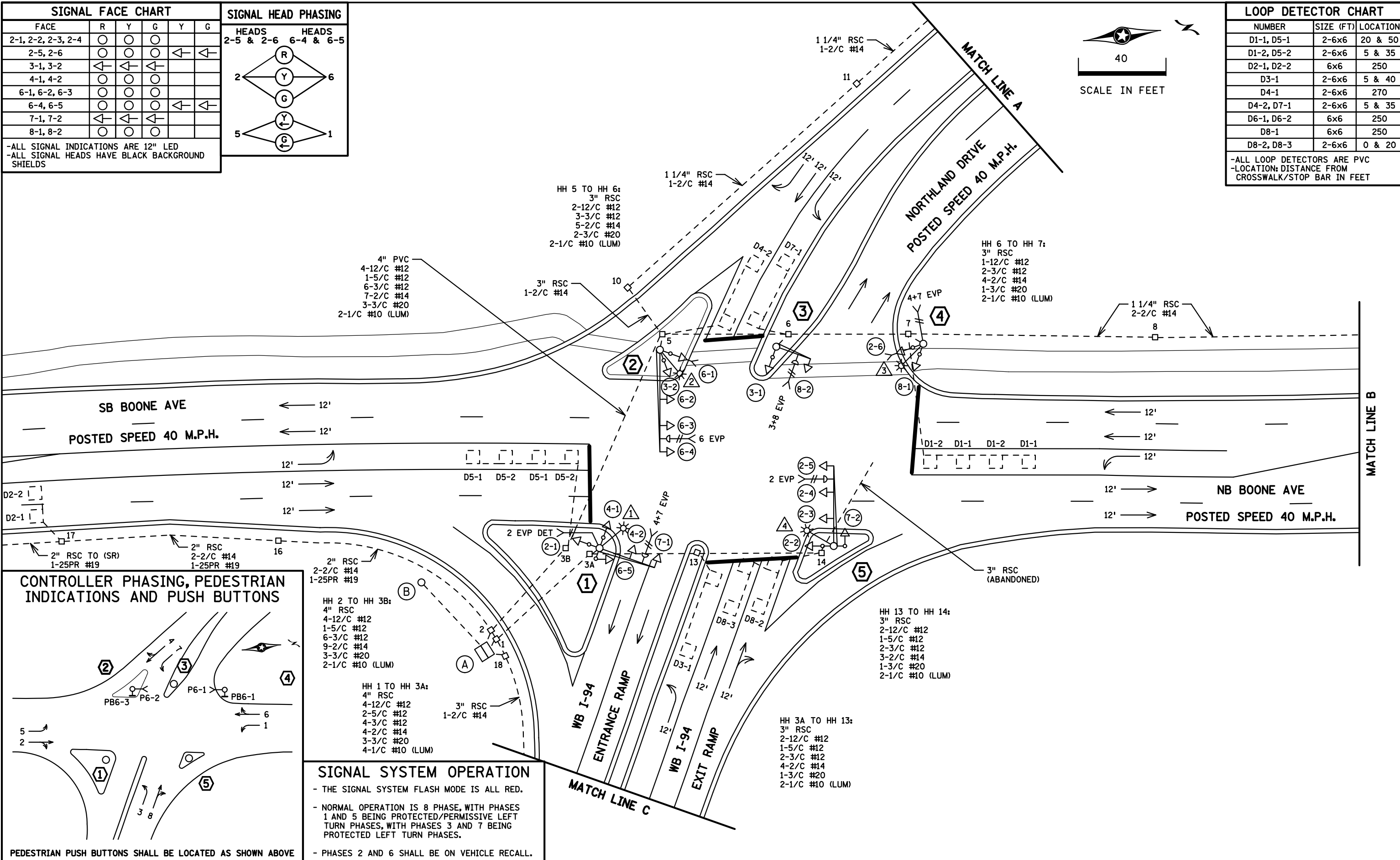
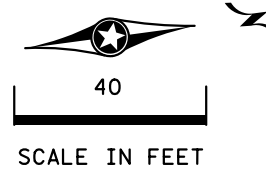
SIGNAL FACE CHART					
FACE	R	Y	G	Y	G
2-1, 2-2, 2-3, 2-4	○	○	○		
2-5, 2-6	○	○	○	◀	◀
3-1, 3-2	◀	◀	◀		
4-1, 4-2	○	○	○		
6-1, 6-2, 6-3	○	○	○		
6-4, 6-5	○	○	○	◀	◀
7-1, 7-2	◀	◀	◀		
8-1, 8-2	○	○	○		



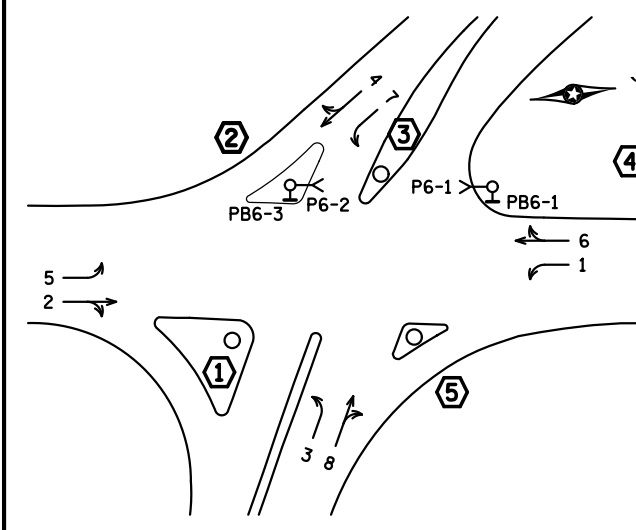
-ALL SIGNAL INDICATIONS ARE 12" LED
-ALL SIGNAL HEADS HAVE BLACK BACKGROUND SHIELDS

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1	2-6x6	20 & 50
D1-2, D5-2	2-6x6	5 & 35
D2-1, D2-2	6x6	250
D3-1	2-6x6	5 & 40
D4-1	2-6x6	270
D4-2, D7-1	2-6x6	5 & 35
D6-1, D6-2	6x6	250
D8-1	6x6	250
D8-2, D8-3	2-6x6	0 & 20

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



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES, WITH PHASES 3 AND 7 BEING PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

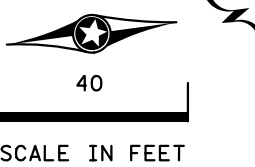
BY	DATE	REVISIONS
GDS	04-05-13	AS BUILT OF SP 8825-427 AND SP 2786-121

SYSTEM ID: 21294	T.E.
METER ADDRESS: 7039 BOONE AVE	
MASTER ID:	T.E.

INTERSECTION LAYOUT
TRAFFIC CONTROL SIGNAL SYSTEM
I-94 AT BOONE AVE. / 70TH N. RAMP
IN BROOKLYN PARK, HENNEPIN COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO. (I-94)	SHEET NO. 1 OF 4 SHEETS		

PLOTTED/REVISED: 4/5/2013



- ② PA100 POLE FOUNDATION
TYPE PA100-A-45-D40-12 (DAVIT AT 350 DEG)
3-ONE-WAY SIGNALS OVERHEAD AT 0', 11' AND 23'
TYPE 10A POLE MOUNTED 0 DEG
TYPE 10B POLE MOUNTED 270 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASE 6)
LUMINAIRE-200W HPS W/PEC & CHECK SWITCH
1-PED PB AND SIGN
1-R10-12 SIGN ADJACENT TO HEAD (6-4)
1-R9-3a SIGN (NO PEDS) FACING POLE 1
2-TYPE D SIGNS
EXTEND INTO HH 5:
3" RSC
2-12/C #12
1-5/C #12
3-3/C #12
1-3/C #20
2-1/C #10 (LUM)

- ③ PA90 POLE FOUNDATION
TYPE PA90-A-15
ONE-WAY SIGNAL OVERHEAD
TYPE 10A POLE MOUNTED 90 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 3+8)
1-PED PB AND SIGN
1-TYPE D SIGN
EXTEND INTO HH 6:
3" RSC
1-12/C #12
3-3/C #12
1-3/C #20

- ④ LIGHT BASE-DESIGN E
STREET LIGHT POLE TYPE D40-12
TYPE 10A POLE MOUNTED 270 DEG
TYPE 10B POLE MOUNTED 0 DEG
1-ONE WAY EVP DETECTOR
-POLE MOUNTED (PHASES 4+7)
LUMINAIRE-200W HPS W/PEC & CHECK SWITCH
1-PED PB AND SIGN
1-R9-3a SIGN (NO PEDS) FACING POLE 5
EXTEND INTO HH 7:
3" RSC
1-12/C #12
2-3/C #12
1-3/C #20
2-1/C #10 (LUM)

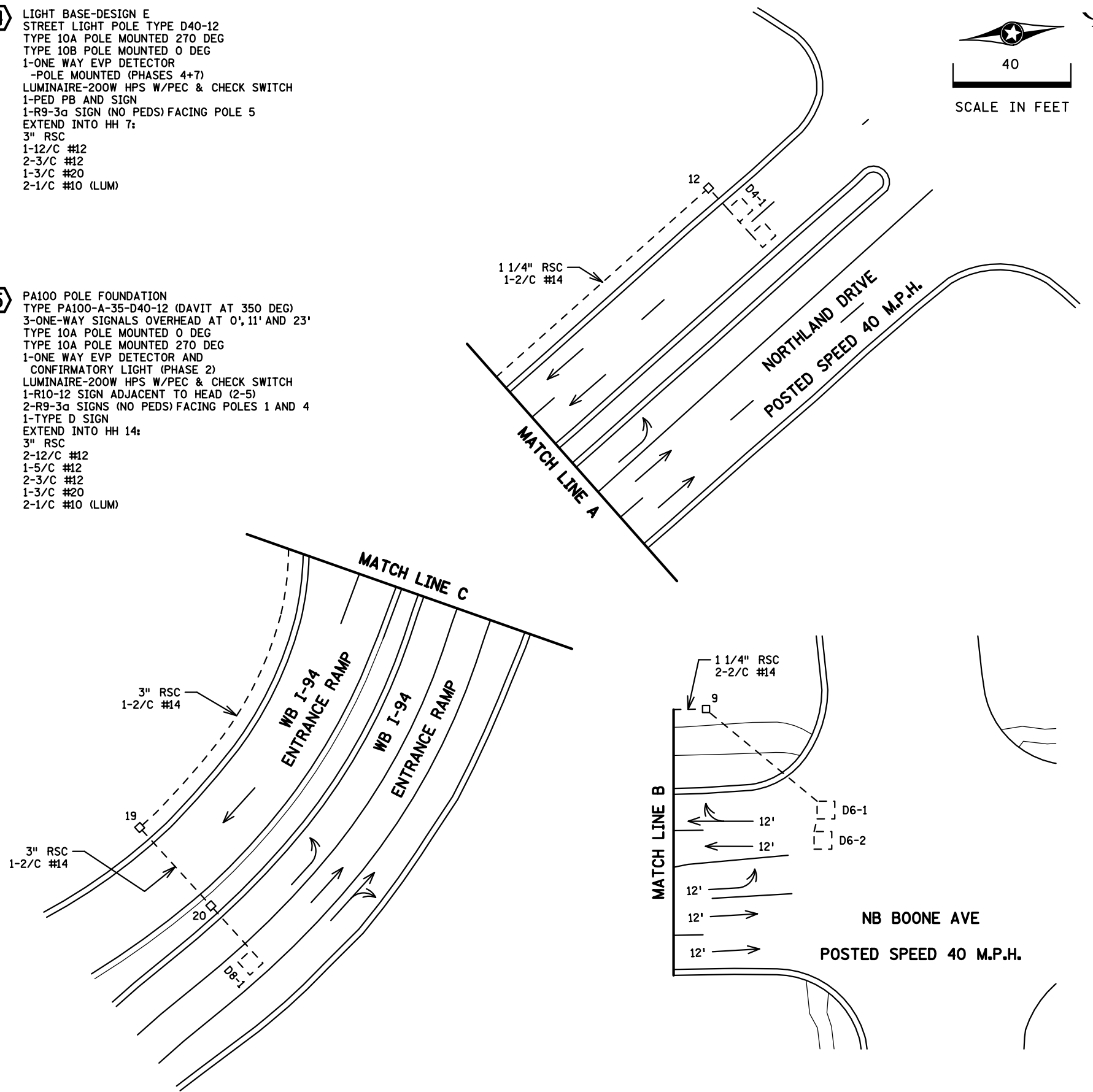
- ① PA90 POLE FOUNDATION
TYPE PA90-A-25-D40-12 (DAVIT AT 350 DEG)
2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'
TYPE 10A POLE MOUNTED 90 DEG
TYPE 10A POLE MOUNTED 180 DEG
TYPE 10A POLE MOUNTED 270 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 4+7)
1-ONE WAY EVP DETECTOR
-POLE MOUNTED (PHASE 2)
LUMINAIRE-200W HPS W/PEC & CHECK SWITCH
2-R9-3a SIGNS (NO PEDS) FACING POLES 2 AND 5
2-TYPE D SIGNS
EXTEND INTO HH 3A:
3" RSC
2-12/C #12
1-5/C #12
4-3/C #12
2-3/C #20
2-1/C #10 (LUM)

- ⑤ PA100 POLE FOUNDATION
TYPE PA100-A-35-D40-12 (DAVIT AT 350 DEG)
3-ONE-WAY SIGNALS OVERHEAD AT 0', 11' AND 23'
TYPE 10A POLE MOUNTED 0 DEG
TYPE 10A POLE MOUNTED 270 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASE 2)
LUMINAIRE-200W HPS W/PEC & CHECK SWITCH
1-R10-12 SIGN ADJACENT TO HEAD (2-5)
2-R9-3a SIGNS (NO PEDS) FACING POLES 1 AND 4
1-TYPE D SIGN
EXTEND INTO HH 14:
3" RSC
2-12/C #12
1-5/C #12
2-3/C #12
1-3/C #20
2-1/C #10 (LUM)

- Ⓐ EQUIPMENT PAD
CONTROLLER AND CABINET
4" RSC TO HH 1: 4" RSC TO HH 2:
4-12/C #12 4-12/C #12
2-5/C #12 1-5/C #12
4-3/C #12 6-3/C #12
4-2/C #14 9-2/C #14
3-3/C #20 3-3/C #20

- CONTROLLER CABINET TO HH 18:
3" RSC
3-2/C #14
1-25PR #19
2-1/C #4
1-1/C #6 BR. GR.
HH 1 TO HH 18:
2" RSC
8-1/C #10 (LUM)
HH 1 TO HH 2:
2" RSC
4-1/C #10 (LUM)

- Ⓑ SOP-WOOD POLE (XCEL ENERGY)
METER AND DISCONNECT
1" RSC RISER AND WEATHERHEAD
ABOVE METER
3-1/C #2
EXTEND INTO HH 18:
2" RSC
8-1/C #10 (LUM)
2-1/C #4
1-1/C #6 BR. GR.



DISTRICT #: METRO
PLOT NAME: match lines & notes
PATH & FILENAME: IP_PWP-d0781560V21294_sgl.dgn

BY	DATE	REVISIONS	SYSTEM ID: 21294	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
GDS	04-05-13	AS BUILT OF SP 8825-427 AND SP 2786-121	METER ADDRESS: 7039 BOONE AVE		CERTIFIED BY _____	LIC. NO. _____		DATE: _____
			MASTER ID:	T.E.	STATE PROJ. NO.	(I-94)		SHEET NO. 2 OF 4 SHEETS

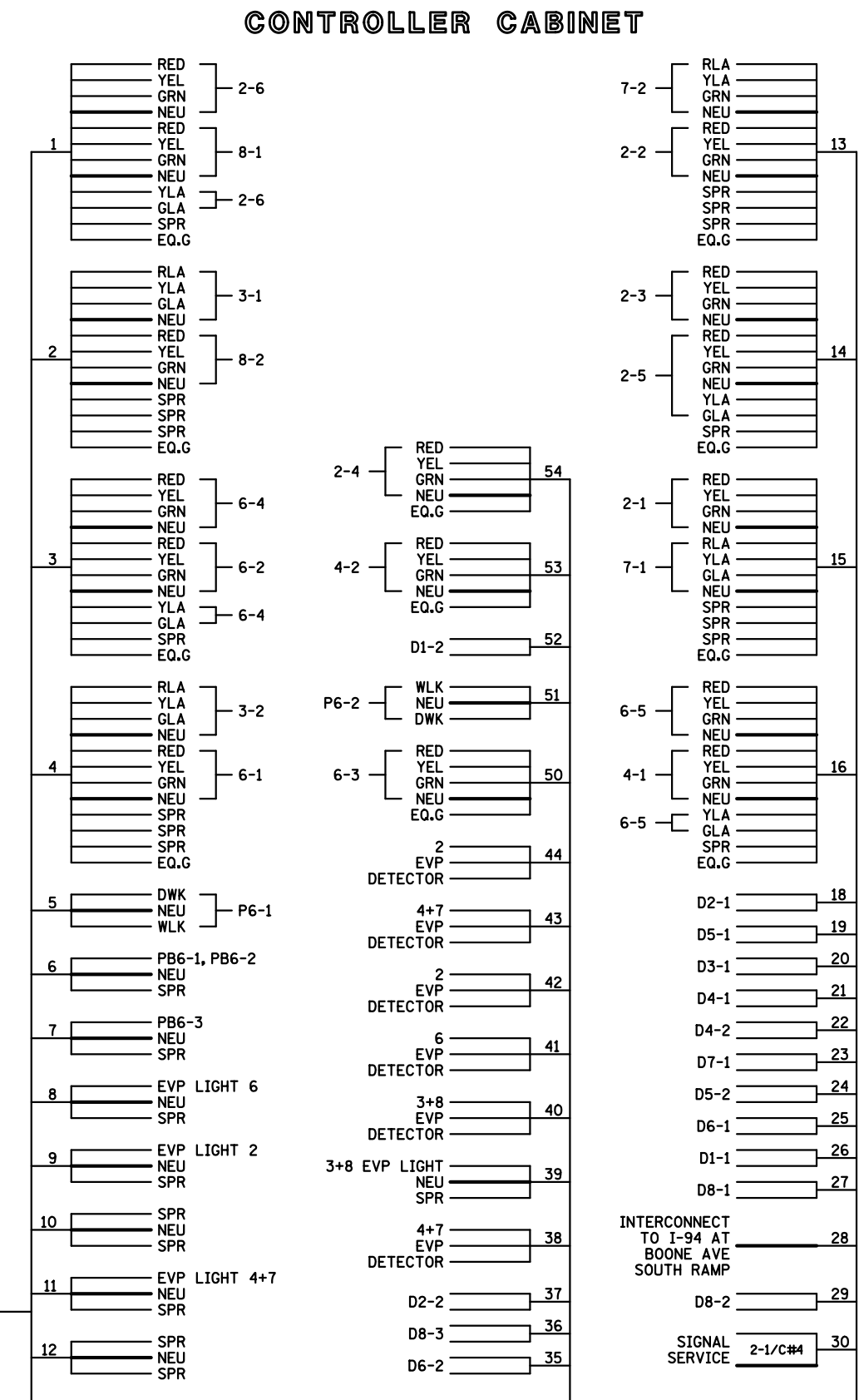
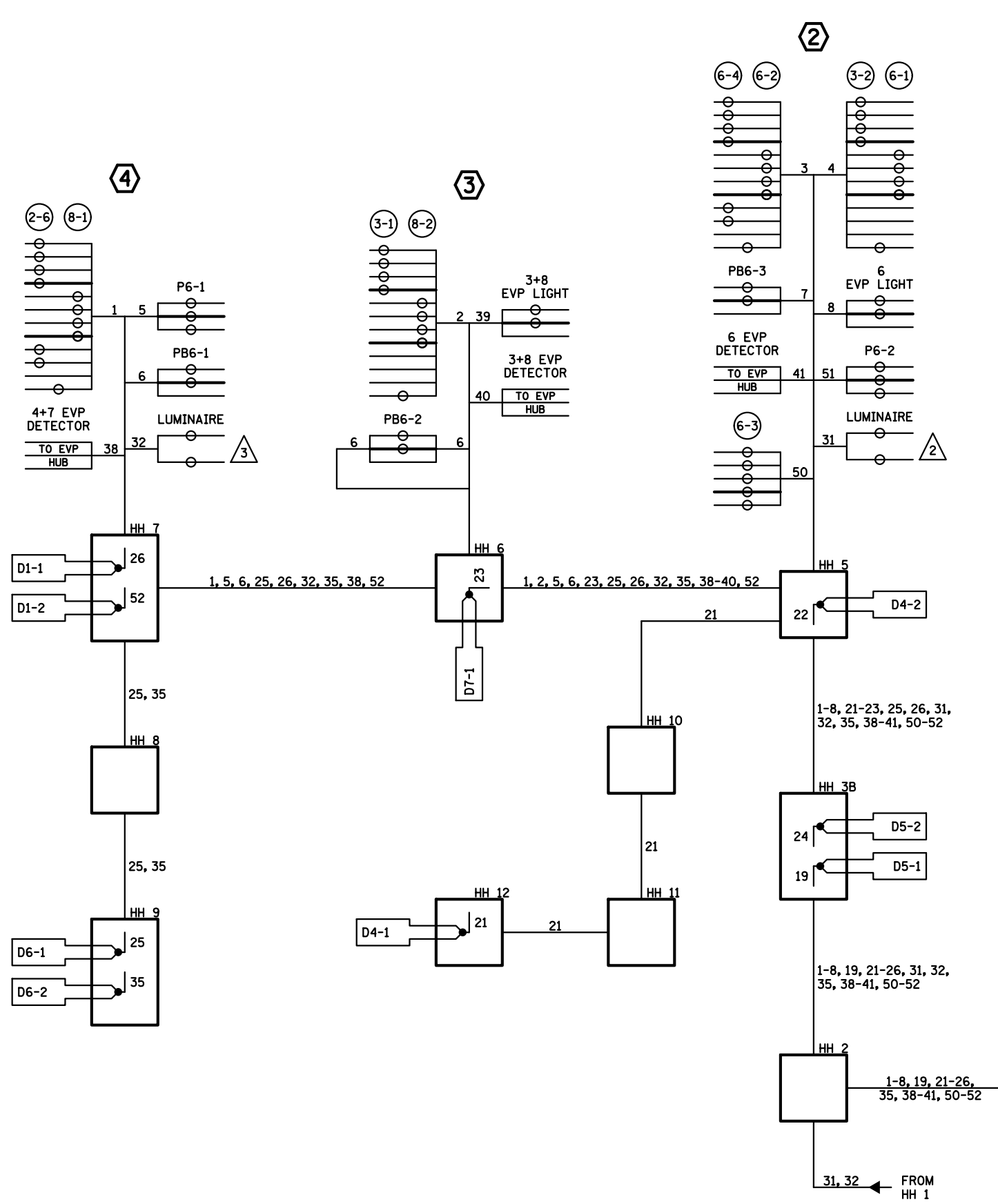
PLOTTED/REVISED: 4/5/2013

DISTRICT #: METRO
IPLOT NAME: wiring 1
PATH & FILENAME: IP_PWP-d0781560V21294_1.sgl.dgn

CONDUCTOR COLOR CODING

R	R
O	O
BL	BLK
WH	WH
R/BLK	G
O/BLK	
BL/BLK	R
WH/BLK	WH
BLK	BLK
BLK/WH	
G/BLK	R OR O
G	WH OR YEL
	3/C#20
2-1/C#2	BLK
2-1/C#6	BLK
2-1/C#10	WH
	BLK
	CLR
	2/C#14
25PR#19	

NOTE: ALL TERMINAL BLOCK CONNECTIONS ARE ARRANGED AS SPECIFIED ABOVE



BY	DATE	REVISIONS
GDS	04-05-13	AS BUILT OF SP 8825-427 AND SP 2786-121

SYSTEM ID: 21294 T.E.
 METER ADDRESS: 7039 BOONE AVE
 MASTER ID: T.E.

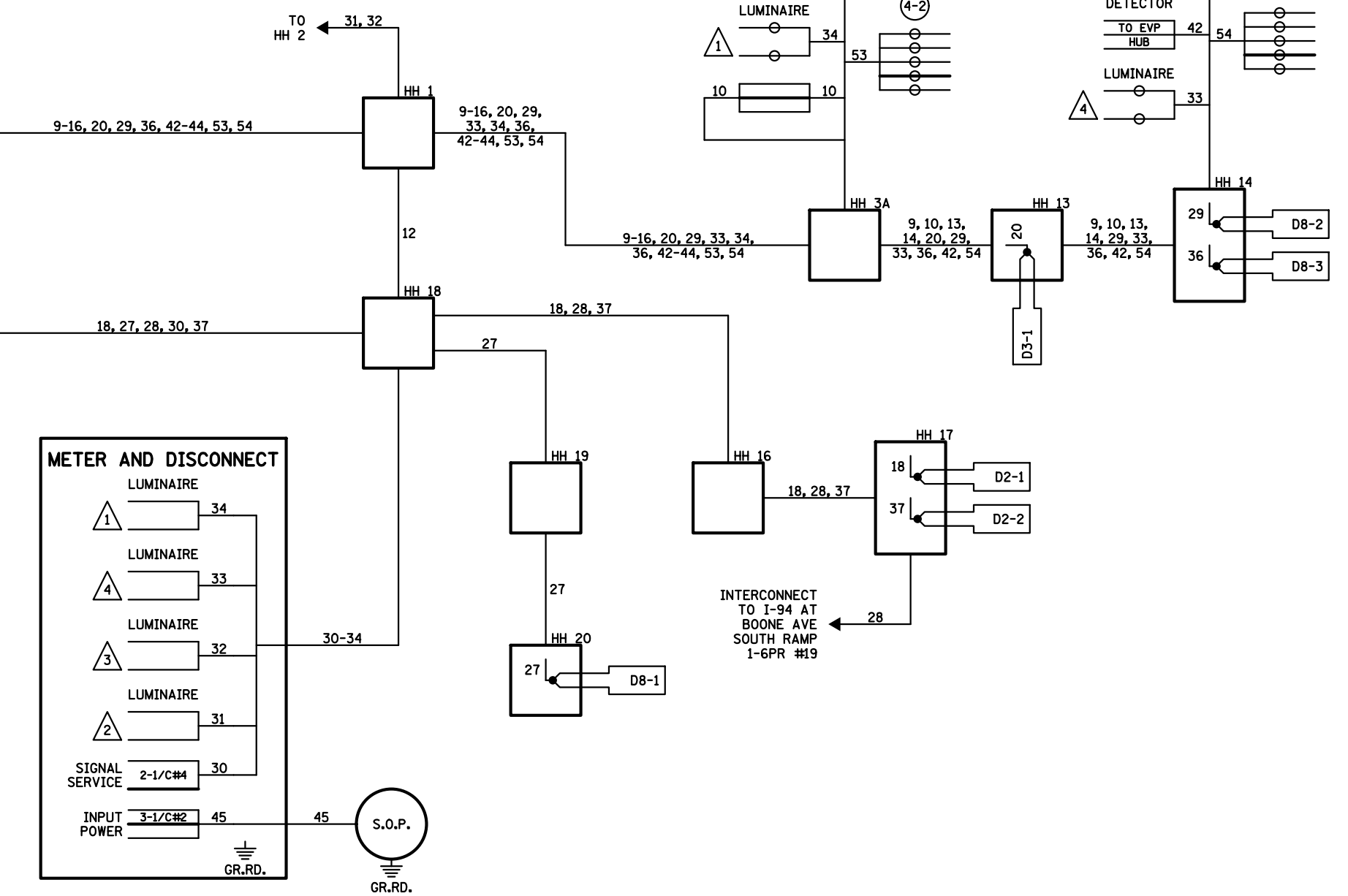
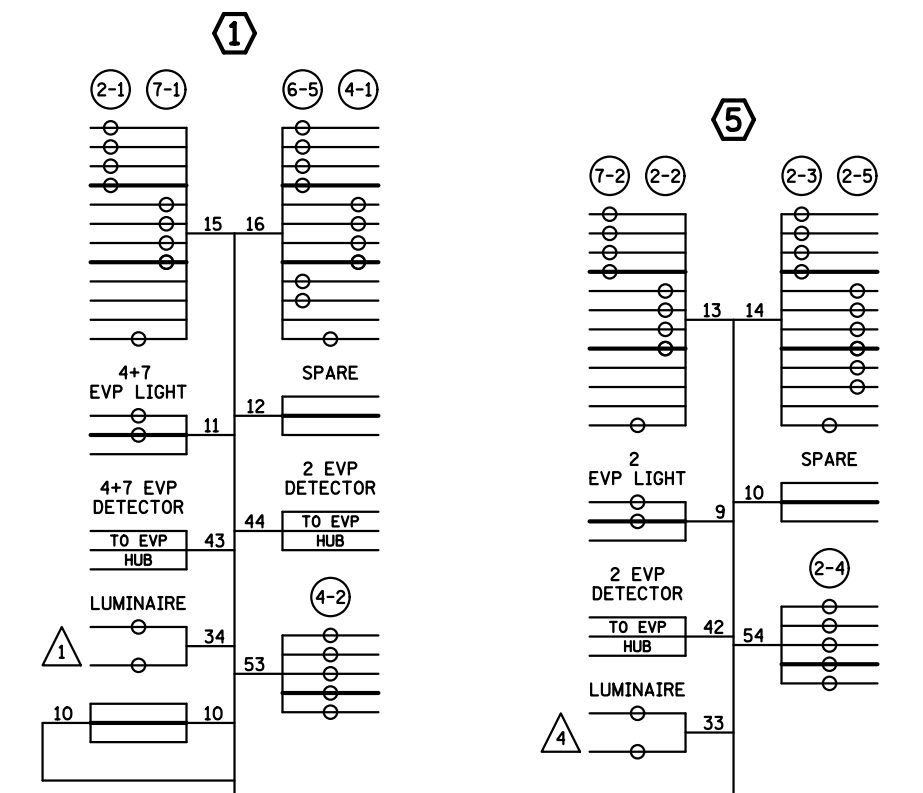
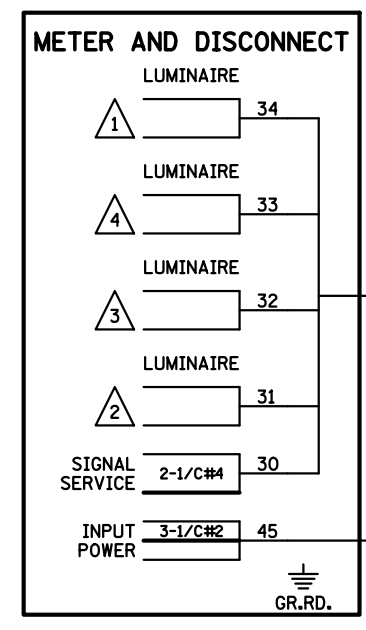
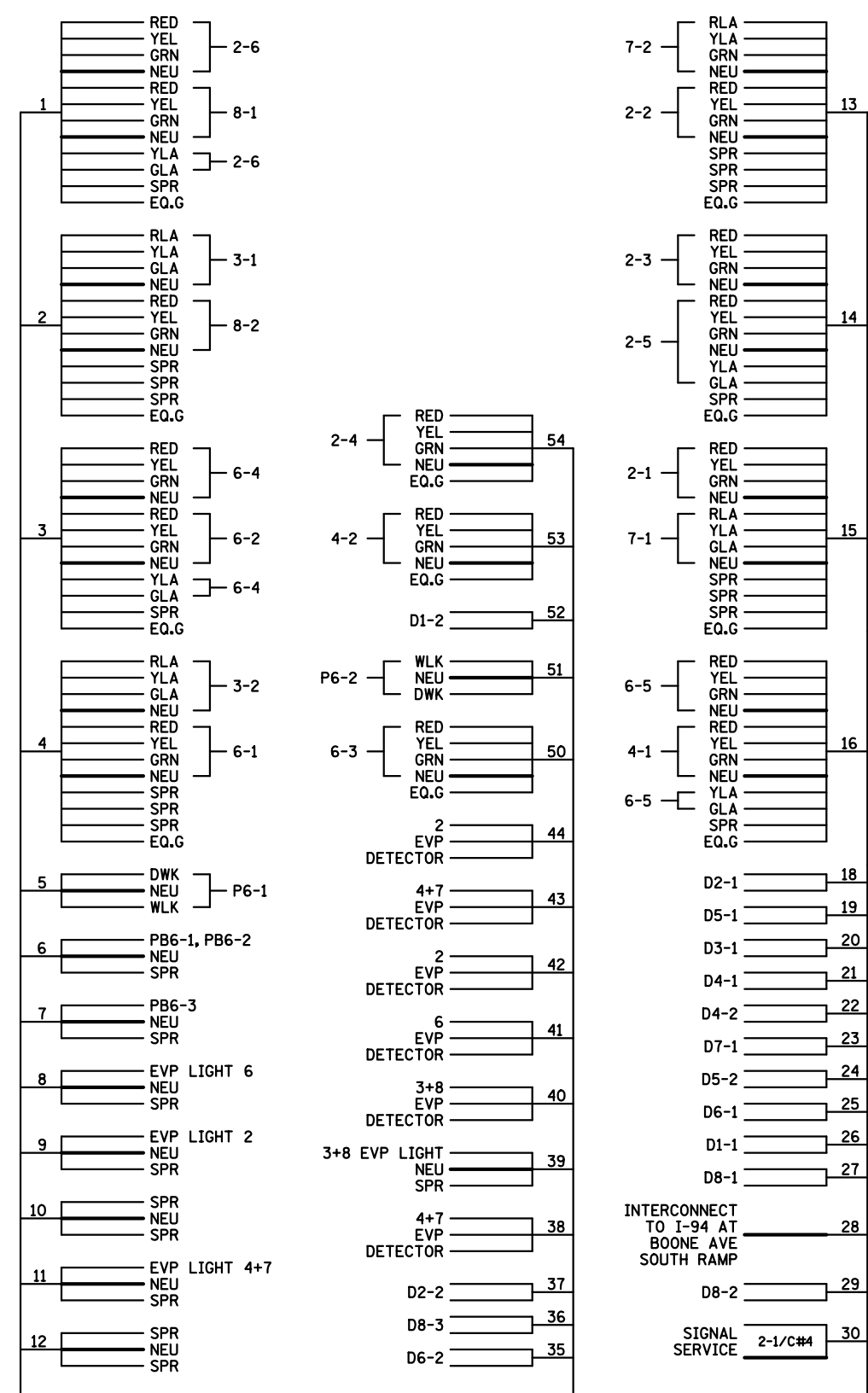
FIELD WIRING DIAGRAM (1 OF 2)
TRAFFIC CONTROL SIGNAL SYSTEM
I-94 AT BOONE AVE. / 70TH N. RAMP
IN BROOKLYN PARK, HENNEPIN COUNTY

S.A.P. NO. _____
 DRAWN BY: _____ CKD BY: _____ DATE: _____
 CERTIFIED BY: _____ L.C. NO. _____ DATE: _____
 STATE PROJ. NO. (I-94) SHEET NO. 3 OF 4 SHEETS

CONTROLLER CABINET

CONDUCTOR COLOR CODING			
R	R		
O	O		
BL	BLK	5/C#12	
WH	WH		
R/BLK	G		
O/BLK			
BL/BLK	R		
WH/BLK	WH	3/C#12	
BLK	BLK		
BLK/WH			
G/BLK	R OR O		
G	WH OR YEL	3/C#20	
	BLK OR BL		
2-1/C#2	BLK		
2-1/C#6			
2-1/C#10	WH		
	BLK	2/C#14	
	CLR		
25PR#19			

NOTE: ALL TERMINAL BLOCK CONNECTIONS ARE ARRANGED AS SPECIFIED ABOVE



DISTRICT #: METRO
 IPLOT NAME: wiring 2
 PATH & FILENAME: IP_PWP-d0781560V21294_sgl.dgn
 PLOTTED/REVISED: 4/5/2013

BY	DATE	REVISIONS	SYSTEM ID: 21294	T.E.	FIELD WIRING DIAGRAM (2 OF 2) TRAFFIC CONTROL SIGNAL SYSTEM I-94 AT BOONE AVE. / 70TH N. RAMP IN BROOKLYN PARK, HENNEPIN COUNTY	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
GDS	04-05-13	AS BUILT OF SP 8825-427 AND SP 2786-121	METER ADDRESS: 7039 BOONE AVE	T.E.		CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
			MASTER ID:	T.E.	STATE PROJ. NO.	(I-94)	SHEET NO. 4 OF 4 SHEETS		