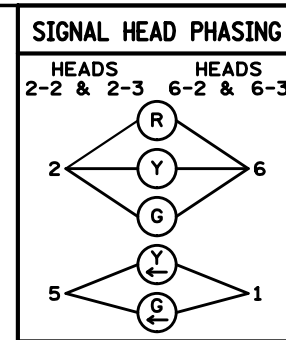


PLOTTED/REVISED: 8/27/2015

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-2	6x6	40 & 10
D2-1	6x6	180
D3-1	6x6	250
D3-2	2-6x6	20 & 50
D3-3	2-6x6	5 & 35
D3-4, D3-5	2-6x6	5 & 20
D4-1	2-6x6	10 & 30
D4-2	2-6x6	24 & 54
D4-3	2-6x6	9 & 39
D5-1, D5-2	6x6	40 & 10
D6-1	6x6	180

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

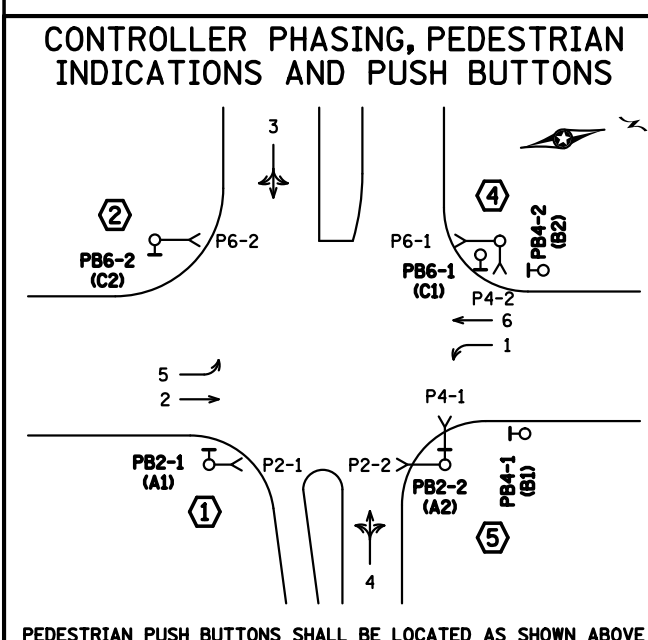
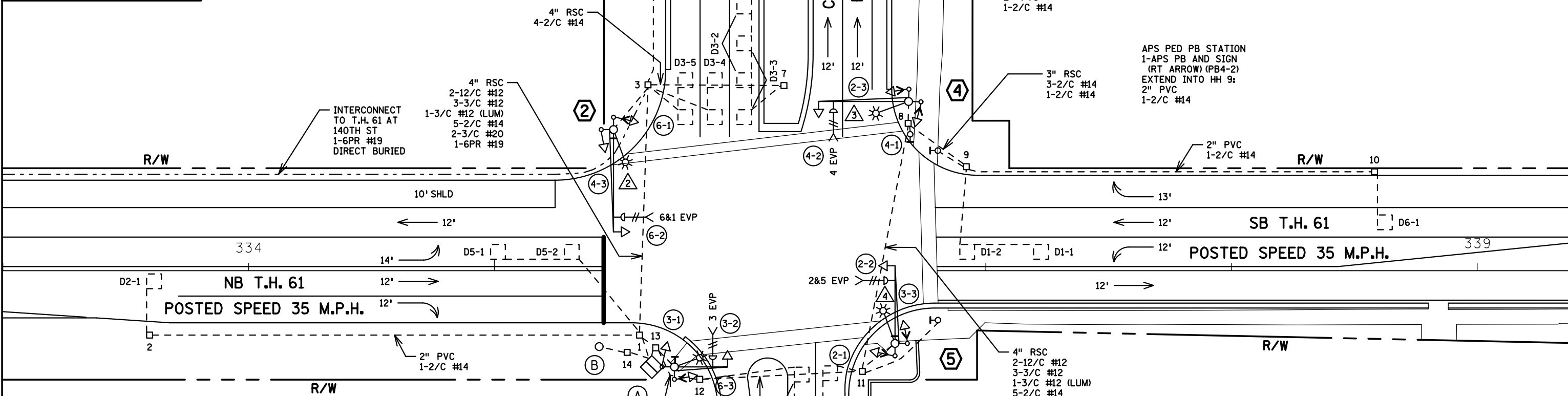
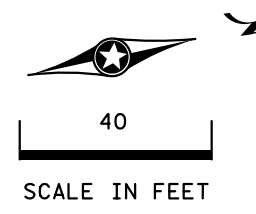
MATCH LINE A



**SIGNAL HEAD CHART**

HEAD	R	Y	G	Y	G
2-1	○	○	○		
2-2, 2-3	○	○	○	←	←
3-1, 3-3	○	○	○		←
3-2	○	○	○		←
4-1	○	○	○		←
4-2	○	○	○		←
4-3	←	←	←		
6-1	○	○	○		
6-2, 6-3	○	○	○	←	←

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



**SIGNAL SYSTEM OPERATION**

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES. PHASES 3 AND 4 ARE PHASED SEQUENTIALLY.
- PHASES 2 AND 6 ARE ON VEHICLE RECALL.

BY	DATE	REVISIONS
EJA	3-6-14	AS-BUILT OF SP 6222-165 (APS ADDED)
EJA	08-27-15	AS-BUILT OF SP 082-090-004 PHASE 6 PEDS ADDED

SYSTEM ID: 22511 T.E.  
METER ADDRESS: 14295 FOREST BLVD. N.  
MASTER ID: T.E.

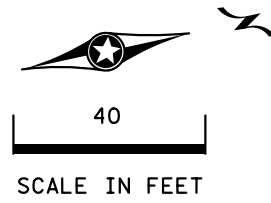
**INTERSECTION LAYOUT**  
T.H. 61 AT C.S.A.H. 8 N. JCT. (FRENCHMAN RD. /MULLER DR.) IN HUGO, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 02-01-12
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO.	(T.H. 61)	SHEET NO.	1 OF 3 SHEETS

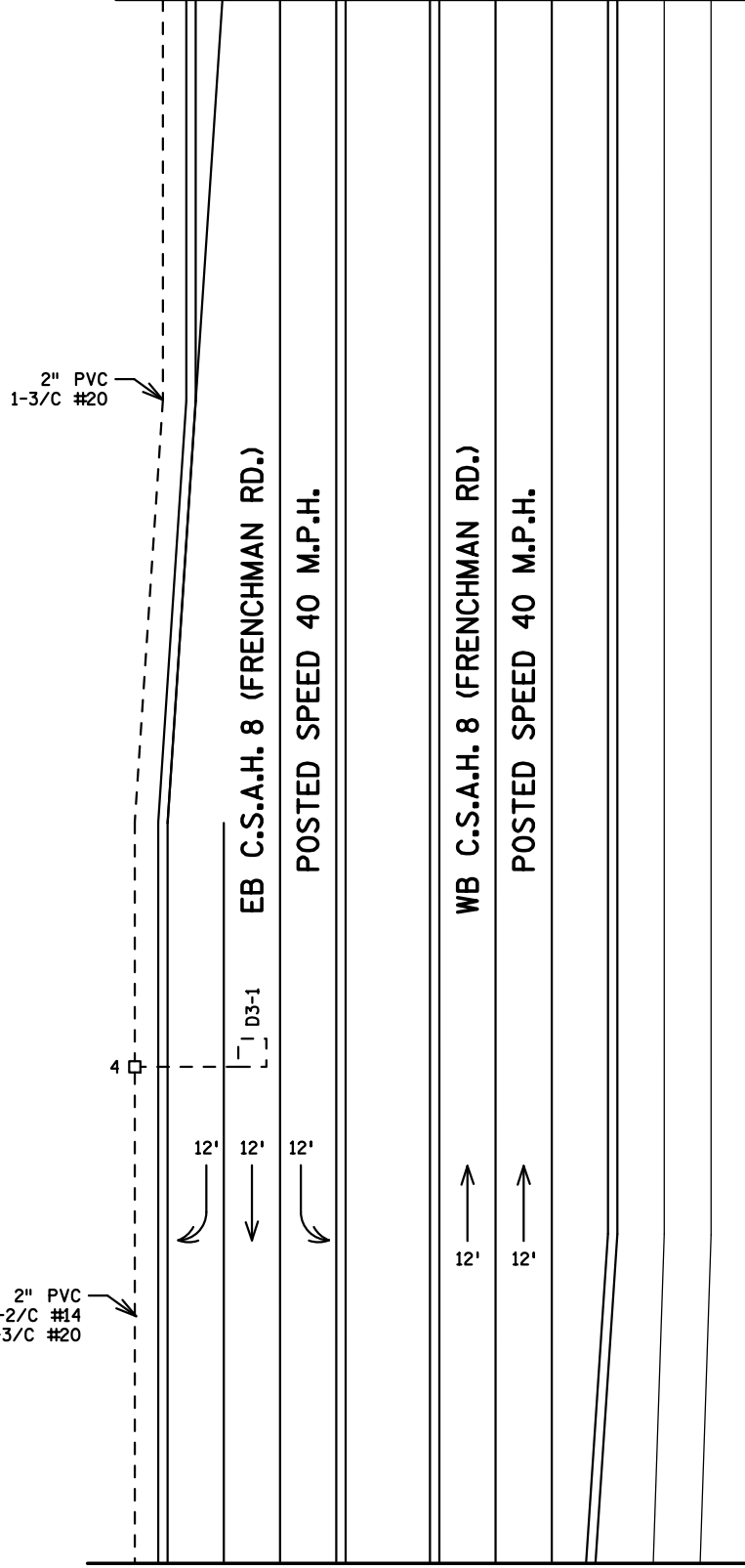
DISTRICT #: METRO  
PLOT NAME: layout D  
PATH & FILENAME: IP\_PWP-d0779844Y22511\_sgl.dgn

PLOTTED/REVISED: 8/27/2015

DISTRICT #: METRO  
IPLOT NAME: match lines D  
PATH & FILENAME: IP\_PWP-d079844Y22511\_sgl.dgn



MATCH LINE B



MATCH LINE A

③ PEDESTAL FOUNDATION  
8' PEDESTAL POLE PLUS BASE  
SUPPLEMENTAL ONE WAY  
EVP DETECTOR (PHASE 3)  
EXTEND INTO HH 6:  
3" RSC  
1-3/C #20

2" PVC  
1-3/C #20

③

3 EVP

6'

EB C.S.A.H. 8 (FRENCHMAN RD.)  
POSTED SPEED 40 M.P.H.

WB C.S.A.H. 8 (FRENCHMAN RD.)  
POSTED SPEED 40 M.P.H.

5

12'  
12'

12'  
12'

MATCH LINE B

② PA90 POLE FOUNDATION  
TYPE PA90-A-40-D40-9 (DAVIT AT 350 DEG)  
2-ONE-WAY SIGNALS OVERHEAD AT 0' & 11'  
2-ONE WAY SIGNALS AT 45 & 225 DEG  
1-ANGLE MOUNT CD PED HEAD AT 225 DEG (P6-2)  
ONE WAY EVP DETECTOR AND LIGHT (6&1)  
LUMINAIRE-250W HPS  
1-R9-3 SIGN (FACING POLE 1)  
1-R10-12 SIGN ADJACENT TO HEAD (6-2)  
2-TYPE D SIGNS  
1-APS PB & SIGN (RT ARROW) (PB6-2)  
1-APS POLE ADAPTER  
EXTEND INTO HH 3:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

① PA90 POLE FOUNDATION  
TYPE PA90-A-20-D40-9 (DAVIT AT 350 DEG)  
2-ONE-WAY SIGNALS OVERHEAD AT 0' AND 11'  
2-ONE WAY SIGNALS AT 45 & 225 DEG  
1-ONE WAY CD PED HEAD AT 45 DEG (P2-1)  
ONE WAY EVP DETECTOR & LIGHT (3)  
LUMINAIRE-250W HPS  
1-APS PB AND SIGN (LT ARROW) (PB2-1)  
1-R9-3 SIGN (FACING POLE 2)  
1-TYPE D SIGN  
EXTEND INTO HH 13:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

Ⓐ EQUIPMENT PAD  
SERVICE CABINET  
MASTER CONTROLLER  
CONTROLLER & CABINET  
4" RSC TO HH 13: 4" RSC TO HH 1:  
2-12/C #12 2-12/C #12  
3-3/C #12 3-3/C #12  
1-3/C #20 8-2/C #14  
3-2/C #14 2-3/C #20  
1-6PR #19  
  
4" RSC TO HH 13:  
4-12/C #12  
6-3/C #12  
2-3/C #20  
6-2/C #14  
3" RSC STUBBED OUT  
(THREADED AND CAPPED BOTH ENDS)  
SERVICE CABINET TO CONTROLLER CABINET  
2" RSC  
2-1/C #6  
1-1/C # 6 BR. GR.  
SERVICE CABINET TO HH 13:  
2" RSC  
4-3/C #12 (LUM)  
SERVICE CABINET TO SOP VIA HH 14:  
2" RSC  
3-1/C #2  
HH 1 TO HH 13:  
2" PVC  
1-3/C #12 (LUM)

④ PA90 POLE FOUNDATION  
TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)  
1-ONE-WAY SIGNAL OVERHEAD  
2-ONE WAY SIGNALS AT 45 & 225 DEG  
1-ONE WAY CD PED HEAD AT 225 DEG (P4-2)  
1-ANGLE MOUNT CD PED HEAD AT 45 DEG (P6-1)  
ONE WAY EVP DETECTOR & LIGHT (4)  
LUMINAIRE-250W HPS  
1-TYPE D SIGN  
EXTEND INTO HH 8:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

⑤ PA90 POLE FOUNDATION  
TYPE PA90-A-30-X25-4 (DAVIT AT 350 DEG)  
2-ONE-WAY SIGNALS OVERHEAD 0' & 11'  
2-ONE WAY SIGNALS AT 45 & 225 DEG  
2-ONE WAY CD PED HEADS AT  
45 & 225 DEG (P4-1 & P2-2)  
ONE WAY EVP DETECTOR & LIGHT (2&5)  
1-APS PB AND SIGN (RT ARROW) (PB2-2)  
LUMINAIRE-250W HPS  
1-R10-12 SIGN ADJACENT TO HEAD (2-2)  
2-TYPE D SIGNS  
EXTEND INTO HH 11:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

Ⓑ S.O.P. - WOOD POLE (BY XCEL)  
SERVICE DISCONNECT  
2" RSC RISER WITH WEATHERHEAD  
3-1/C #2  
EXTEND INTO HH 14:  
2" RSC  
3-1/C #2

BY	DATE	REVISIONS
EJA	3-6-14	AS-BUILT OF SP 6222-165 (APS ADDED)
EJA	8-27-15	AS-BUILT OF SP 082-090-004 PHASE 6 PEDS ADDED

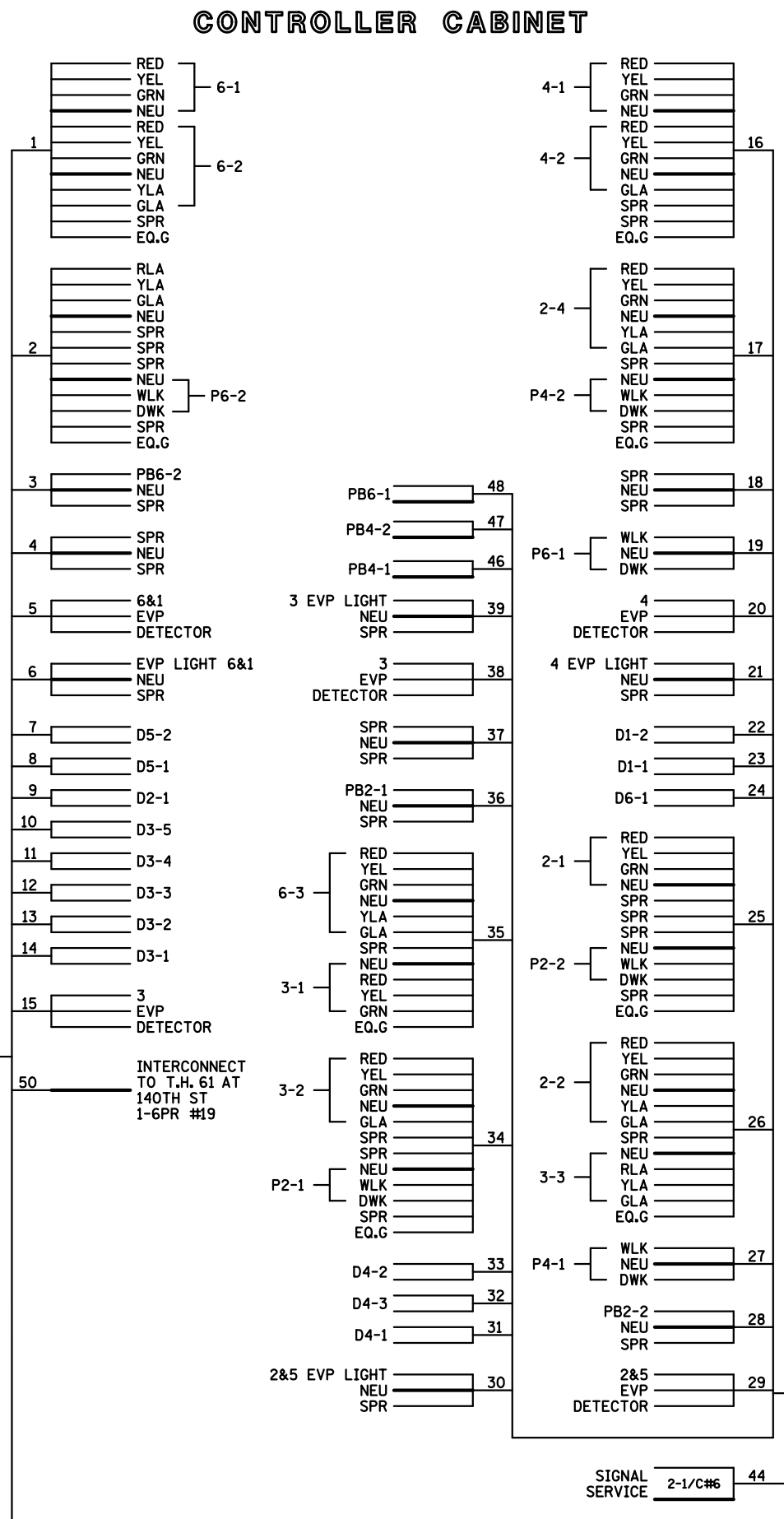
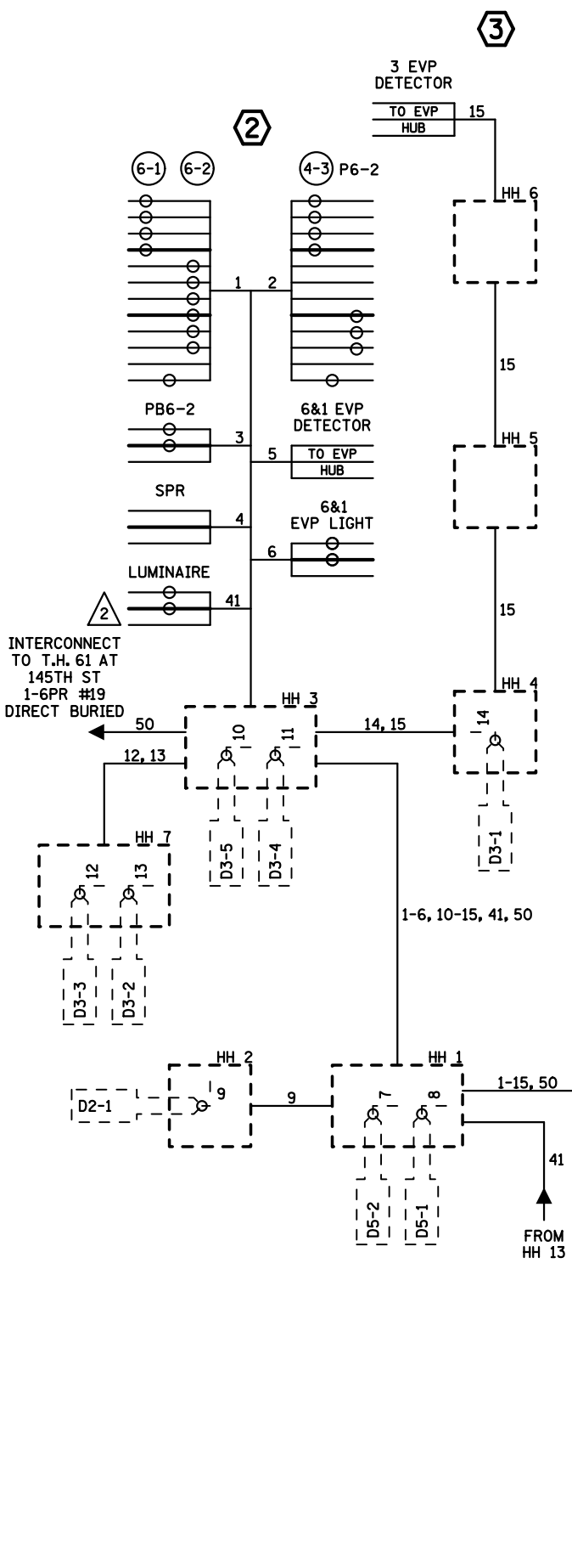
SYSTEM ID: 22511	T.E.
METER ADDRESS: 14295 FOREST BLVD. N.	
MASTER ID:	T.E.

**MATCH LINE LAYOUTS**  
T.H. 61 AT C.S.A.H. 8 N. JCT. (FRENCHMAN RD. /MULLER DR.) IN HUGO, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 02-01-12
CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO.	(T.H. 61)	SHEET NO.	2 OF 3 SHEETS

PLOTTED/REVISED: 8/27/2015

DISTRICT #: METRO  
IPLOT NAME: wiring D  
PATH & FILENAME: IP\_PWP-d079844Y2251I\_sgl.dgn



### CONDUCTOR COLOR CODING

R	0
BL	BL
WH	WH
R/BLK	G
O/BLK	R
BL/BLK	WH
WH/BLK	BLK
BLK	R OR O
BLK/WH	WH OR YEL
G/BLK	BLK OR BL
G	

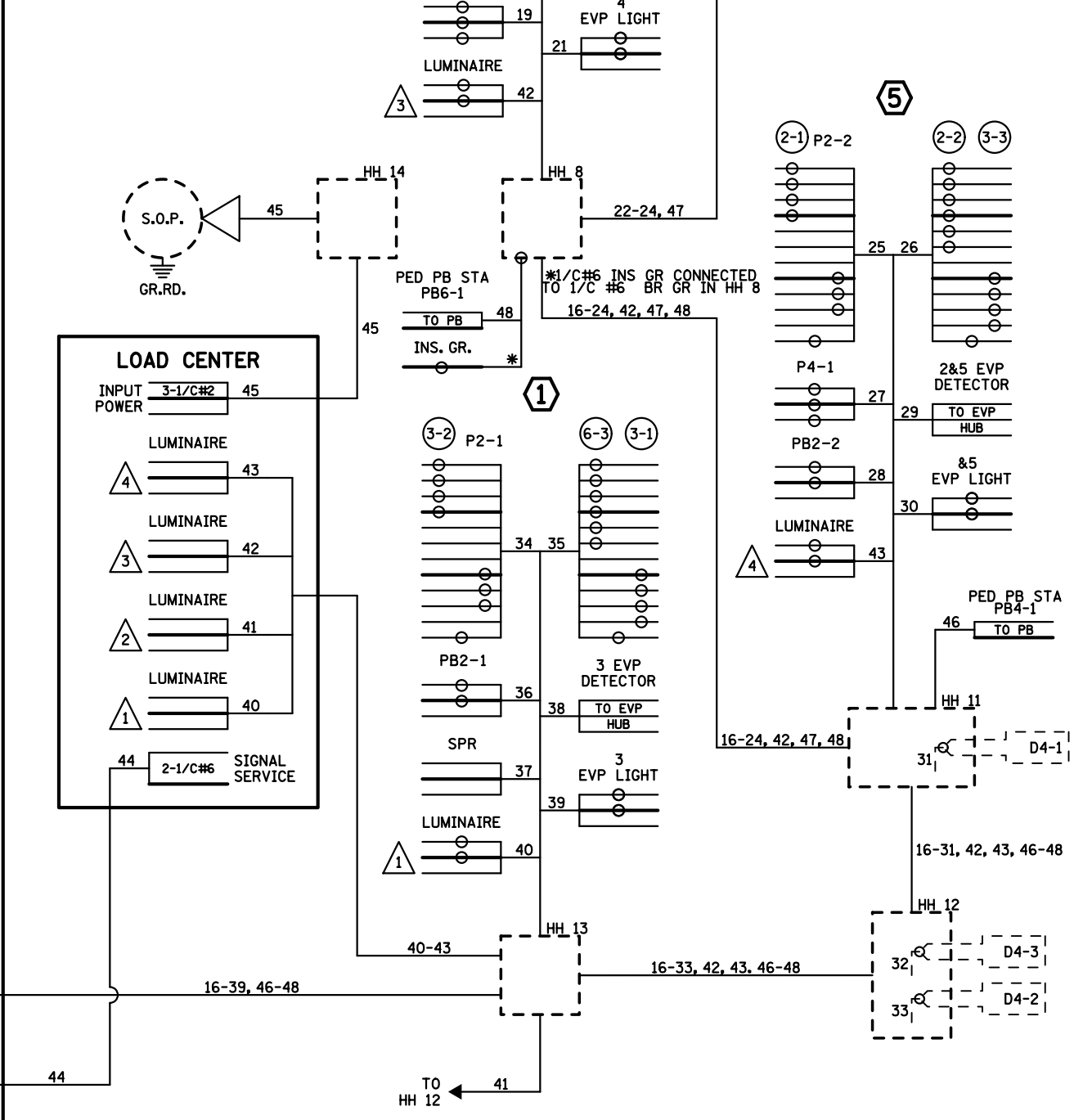
  

5/C#12	
3/C#12	
3/C#20	
2-1/C#6	
3-1/C#2	

2/C#14	
6PR#19	

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



BY	DATE	REVISIONS
EJA	3-6-14	AS-BUILT OF SP 6222-165 (APS ADDED)
EJA	8-27-15	AS-BUILT OF SP 082-090-004 PHASE 6 PEDS ADDED

SYSTEM ID: 22511 T.E. 5464  
 METER ADDRESS: 14295 FOREST BLVD. N.  
 MASTER ID: T.E.

**FIELD WIRING DIAGRAM**  
 T.H. 61 AT C.S.A.H. 8 N. JCT. (FRENCHMAN RD. /MULLER DR.) IN HUGO, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 02-01-12
CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO.	(T.H. 61)	SHEET NO.	3 OF 3 SHEETS