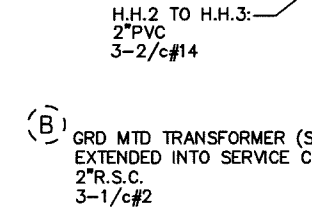
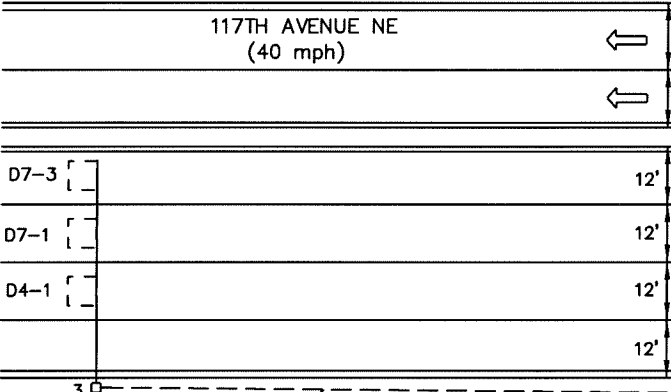


PLOTTED/REVISED: 7/25/2013

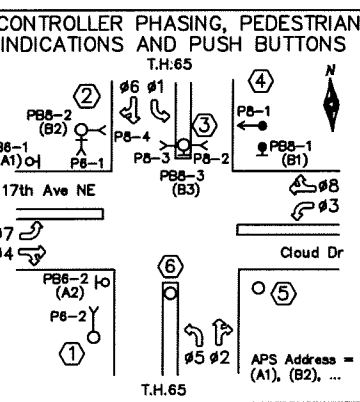
DISTRICT #: METRO
 IPLOT NAME: T225680_SGL
 PATH & FILENAME: IP_PWP-d0781350VT225680_SGL.DGN

PVC LOOP DETECTORS		
NUMBER	SIZE (FT.)	LOCATION
D1-1	6x6	40'
D1-2	6x6	10'
D2-1	6x6	530'
D2-2	6x6	530'
D3-1	2-6x6	5' & 35'
D3-2	2-6x6	-5' & 20'
D4-1	6x6	250'
D4-2	6x6	5'
D4-3	2-6x6	5' & 20'
D5-1	6x6	40'
D5-2	6x6	10'
D5-3	6x6	40'
D5-4	6x6	10'
D6-1	6x6	530'
D6-2	6x6	530'
D7-1	6x6	250'
D7-2	2-6x6	5' & 20'
D7-3	6x6	250'
D7-4	2-6x6	5' & 20'
D8-1	6x6	120'
D8-2	2-6x6	-5' & 5'
D8-3	2-6x6	-5' & 5'

NOTE: LOCATION=DISTANCE FROM CROSSWALK OR STOP BAR TO FRONT OF LOOP DETECTOR.



NOTE: SEE NEXT SHEET FOR DETAILED POLE NOTES.



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE, WITH PHASES 1, 3, 5 AND 7 BEING PROTECTED LEFT TURN PHASES (PHASES 7 AND 3 ARE LEAD/LAG LEFT TURN PHASES).
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

SERVICE CABINET TO CONTROLLER CABINET:
 2" R.S.C.
 2-1/c#6
 1-1/c#6 INS.GR.
SERVICE CABINET TO H.H.1:
 2" R.S.C.
 4-3/c#12 (LUM)
H.H.1 TO H.H.2:
 2" R.S.C.
 2-3/c#12 (LUM)

H.H.1 TO SOUTH:
 1-6 Pr.#19 DIRECT BURIED (TO 109TH AVE NE) (ABANDONED)

(A) EQUIPMENT PAD
 CONTROLLER AND CABINET
 SIGNAL SERVICE CABINET
CONTROLLER CABINET TO H.H.1:
 4" R.S.C.
 5-12/c#12
 6-3/c#12
 2-3/c#20
 7-2/c#14
 1-6 Pr.#19 (ABANDONED)
 1-3/c#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE
CONTROLLER CABINET TO H.H.2:
 4" R.S.C.
 5-12/c#12
 7-3/c#12
 2-3/c#20
 16-2/c#14

H.H.2 TO H.H.4:
 4" PVC
 5-12/c#12
 6-3/c#12
 2-3/c#20
 7-2/c#14
 2-3/c#12 (LUM)

H.H.1 TO H.H.16:
 3" R.S.C.
 3-12/c#12
 4-3/c#12
 1-3/c#20
 6-2/c#14
 1-3/c#12 (LUM)

H.H.9 TO H.H.10:
 3" R.S.C.-EXTEND
 2-12/c#12
 2-3/c#12
 5-2/c#14
 1-3/c#20
 1-3/c#12 (LUM)

H.H.4 TO H.H.6:
H.H.6 TO H.H.7:
 2" PVC
 2-2/c#14

H.H.4 TO H.H.9:
 3" R.S.C.
 4-12/c#12
 4-3/c#12
 2-3/c#20
 7-2/c#14
 1-3/c#12 (LUM)

SIGNAL FACES				
ALL SIGNAL INDICATIONS ARE 12" LED				
SIGNAL FACE	R	Y	G	STATUS
1-1, 1-2	←	←	←	1
2-1	○	○	○	2
2-2, 2-3	○	○	○	3
3-1, 3-2	←	←	←	1
4-1, 4-2, 4-3	○	○	○	1
5-1, 5-2	←	←	←	1
6-1, 6-2, 6-3	○	○	○	1
7-1	←	←	←	1
7-2	←	←	←	2
8-1, 8-2, 8-3	○	○	○	1



BY: EJA	DATE: 05-01-13	REVISIONS: AS-BUILT OF SP 0207-94 + CORRECTIONS	SYSTEM ID: 22568	T.E.	INTERSECTION LAYOUT TH 65 AT 117TH AVE NE/CLOUD DRIVE BLAINE, ANOKA COUNTY	S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
			METER ADDRESS: 11698 HWY 65	T.E.		CERTIFIED BY: _____	LIC. NO. 19863	DATE: 05-23-11	
			MASTER ID: 21175			STATE PROJ. NO. (T.H. 65)	SHEET NO. 1 OF 4 SHEETS		

PLOTTED/REVISED: 7/25/2013

DISTRICT #: METRO
 PLOT NAME: T22568a_SGL
 PATH & FILENAME: IP_PWP:d0781350\T22568a_SGL.DGN

① PA100 POLE FOUNDATION
 TYPE PA100-A-50-X6-350/CAM 400 (MOUNTED AT 350 DEG)
 2-SWING AWAY HINGES
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 12'
 FROM END OF MAST ARM
 TYPE 10A POLE MOUNTED AT 90°
 TYPE 10B POLE MOUNTED AT 180°
 1-C.D. PED INDICATION
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (#6 & #1)
 LUMINAIRE 250 WATT HPS
 1-VIDEO CAMERA WITH MOUNT
 1-R9-3a (NO PEDESTRIAN CROSSING SIGN-FACING POLE 6)
 2 SIGNS (R6-1L AND R6-1R) (ONE-WAY)
 TYPE "D" SIGN
 EXTEND INTO HH1:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#12 (LUM)
 1-3/C#14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE
 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH1

④ PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350°)
 2-SWING AWAY HINGES
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 12' FROM END OF
 MAST ARM
 1-TYPE 10B POLE MOUNTED AT 90°
 1-TYPE 10A POLE MOUNTED AT 180°
 1-C.D. PED INDICATION
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (#2 & #5)
 LUMINAIRE 250 WATT HPS
 1-R9-3a SIGN PANEL-FACING POLE 5
 2-SIGNS (R6-1L AND R6-1R)
 TYPE "D" SIGN
 EXTEND INTO HH10A:
 3" RSC
 2-12/C#12
 1-3/C#12
 1-3/C#12 (LUM)
 1-3/C#20

APS PED PB STA (PB6-2)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH1:
 1 1/4" PVC
 1-2/C #14

APS PED PB STA (PB8-1)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH10A:
 1 1/4" PVC
 1-3/C #12

② PA90 POLE FOUNDATION
 TYPE PA90-D40-9 (DAVIT AT 280°)
 2-TYPE 10B POLE MOUNTED AT 90° AND 180°
 2-C.D. PED INDICATIONS
 LUMINAIRE 250 WATT HPS
 1-APS PB AND SIGN (PB8-2) (RT ARROW)
 1 SIGN (R6-1R)(ONE-WAY)
 EXTEND INTO HH4:
 3" RSC
 1-12/C#12
 2-3/C#12
 1-3/C#12 (LUM)

APS PED PB STA (PB6-1)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH4:
 1 1/4" PVC
 1-2/C #14

⑤ PA90 POLE FOUNDATION
 TYPE PA90-D40-9 (DAVIT AT 280°)
 2-TYPE 10A POLE MOUNTED AT 90° & 180°
 LUMINAIRE 250 WATT HPS
 2-R9-3a (NO PEDESTRIAN CROSSING
 SIGN-FACING POLE 4 & 6)
 1 SIGN (R6-1R)
 EXTEND INTO HH13:
 3" RSC
 1-12/C#12
 2-3/C#12
 1-3/C#12 (LUM)

③ PA90 POLE FOUNDATION
 TYPE PA90-A-40
 ONE WAY SIGNAL OVERHEAD AT 0' AND 11' FROM END OF MAST ARM
 2-TYPE 10B POLE MOUNTED AT 90° AND 180°
 2-C.D. PED INDICATIONS
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (#3 & #8)
 1-APS PB AND SIGN (PB 8-3) (DBL ARROW)
 2 SIGNS (R6-1L AND R6-1R) (ONE-WAY)
 TYPE "D" SIGN
 EXTEND INTO HH9:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20

⑥ PA90 POLE FOUNDATION
 TYPE PA100-A-45
 ONE WAY SIGNAL OVERHEAD AT 0' AND 16.5' FROM END
 OF MAST ARM
 2-TYPE 10A POLE MOUNTED AT 90° AND 180°
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (#4 & #7)
 2-R9-3a (NO PED CROSSING) SIGNS - FACING POLES 1 AND 5
 2 SIGNS (R6-1L AND R6-1R)
 TYPE "D" SIGN
 EXTEND INTO HH16:
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20

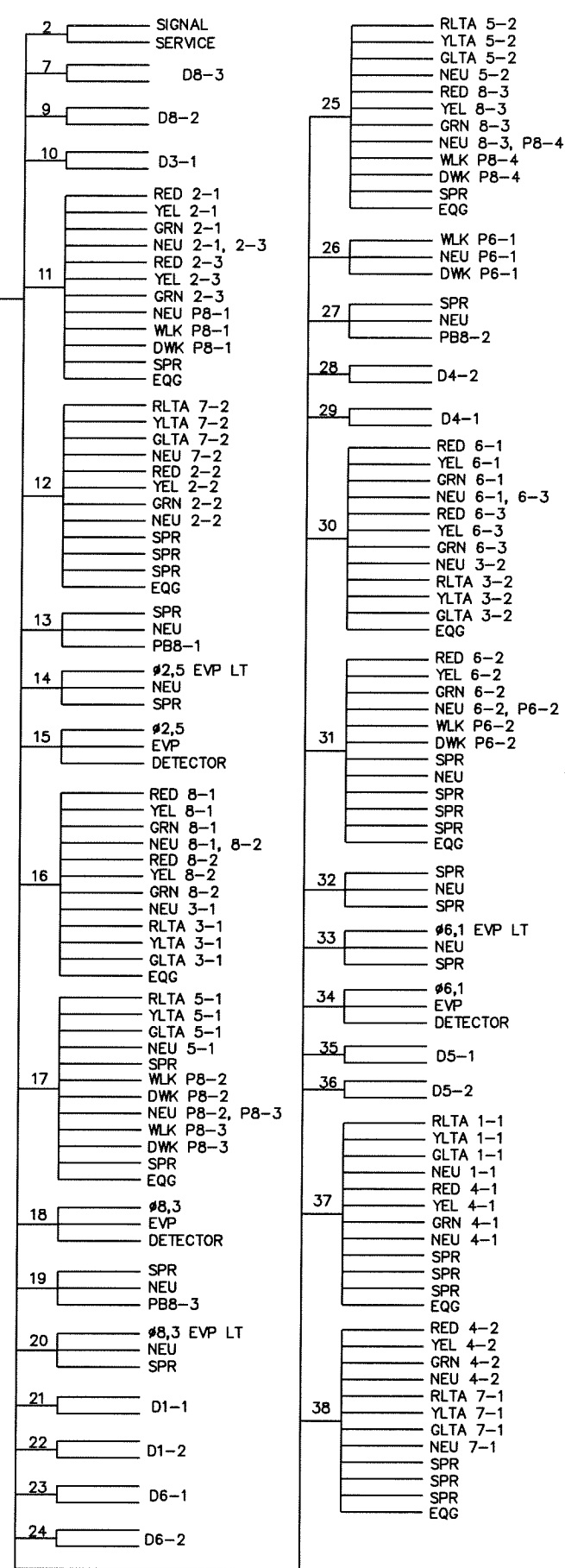
BY	DATE	REVISIONS	SYSTEM ID: 22568	T.E.	S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
EJA	05-01-13	AS-BUILT OF SP 0207-94 + CORRECTIONS	METER ADDRESS: 11698 HWY 65		CERTIFIED BY _____	LIC. NO. 19863		DATE: 05-23-11
			MASTER ID: 21175	T.E.	STATE PROJ. NO. (T.H. 65)		SHEET NO. 3 OF 4 SHEETS	

POLE NOTES
 TH 65 AT 117TH AVE NE/CLOUD DRIVE
 BLAINE, ANOKA COUNTY

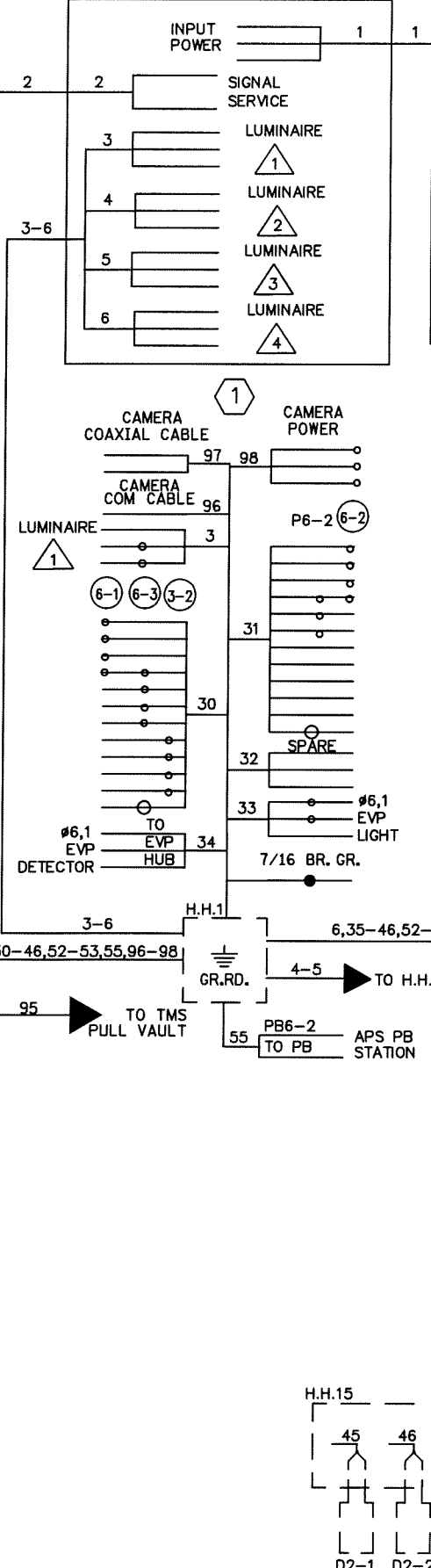
PLOTTED/REVISED: 7/25/2013

DISTRICT #: METRO
PLOT NAME: T22568a_SGL
PATH & FILENAME: IP_PWP-00781350T22568a_SGL.DGN

CONTROLLER CABINET



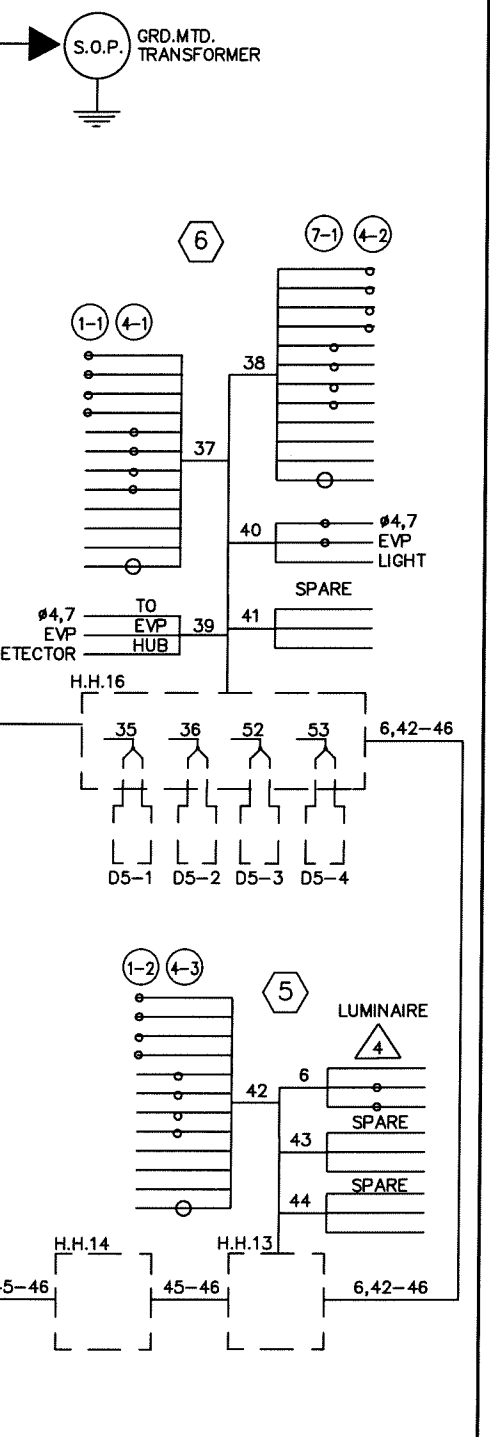
SIGNAL SERVICE CABINET



CONDUCTOR COLOR CODING

R	BLK	2-1/c#6
O	WH	
BL		
WH	R	3/c#12
R/BLK	WH	
O/BLK	BLK	
BL/BLK		
WH/BLK	BLK	2/c#14
BLK		
BLK/WH	R OR O	3/c#20
G/BLK	WH OR YEL	
G	BLK OR BL	

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



BY	DATE	REVISIONS
EJA	05-01-13	AS-BUILT OF SP 0207-94 + CORRECTIONS

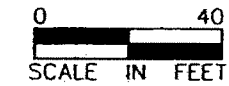
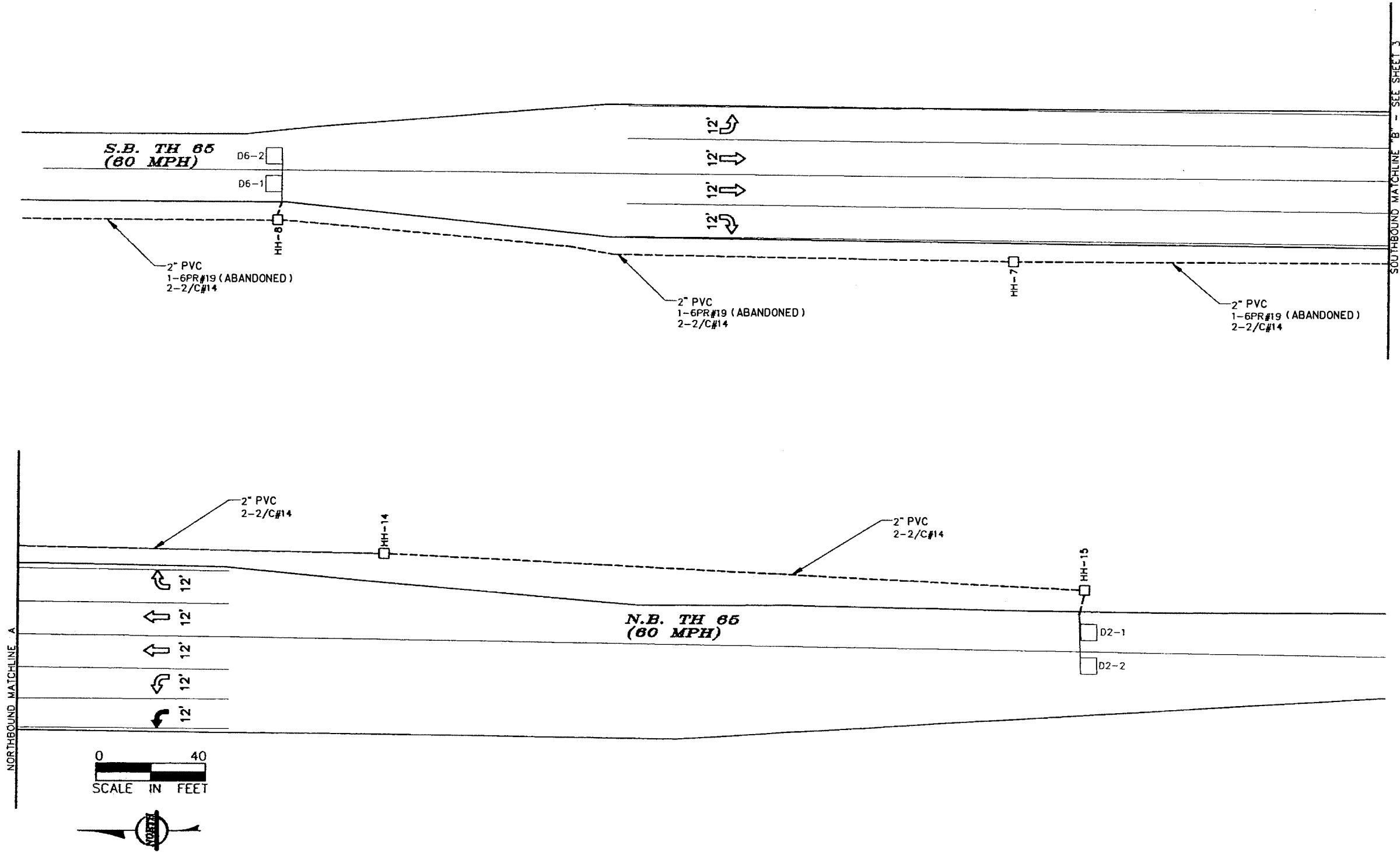
SYSTEM ID: 22568	T.E.
METER ADDRESS: 11698 HWY 65	
MASTER ID: 21175	T.E.

FIELD WIRING DIAGRAM
TH 65 AT 117TH AVE NE/CLOUD DRIVE
BLAINE, ANOKA COUNTY

S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
CERTIFIED BY	LIC. NO. 19863	DATE: 05-23-11	
STATE PROJ. NO. 0207-94 (T.H. 65) SHEET NO. 4 OF 4 SHEETS			

PLOTTED/REVISED: 7/22/2013

DISTRICT #: METRO
 IPLOT NAME: T22568a_SGL
 PATH & FILENAME: IP_PWP-00781350\T22568a_SGL.DGN

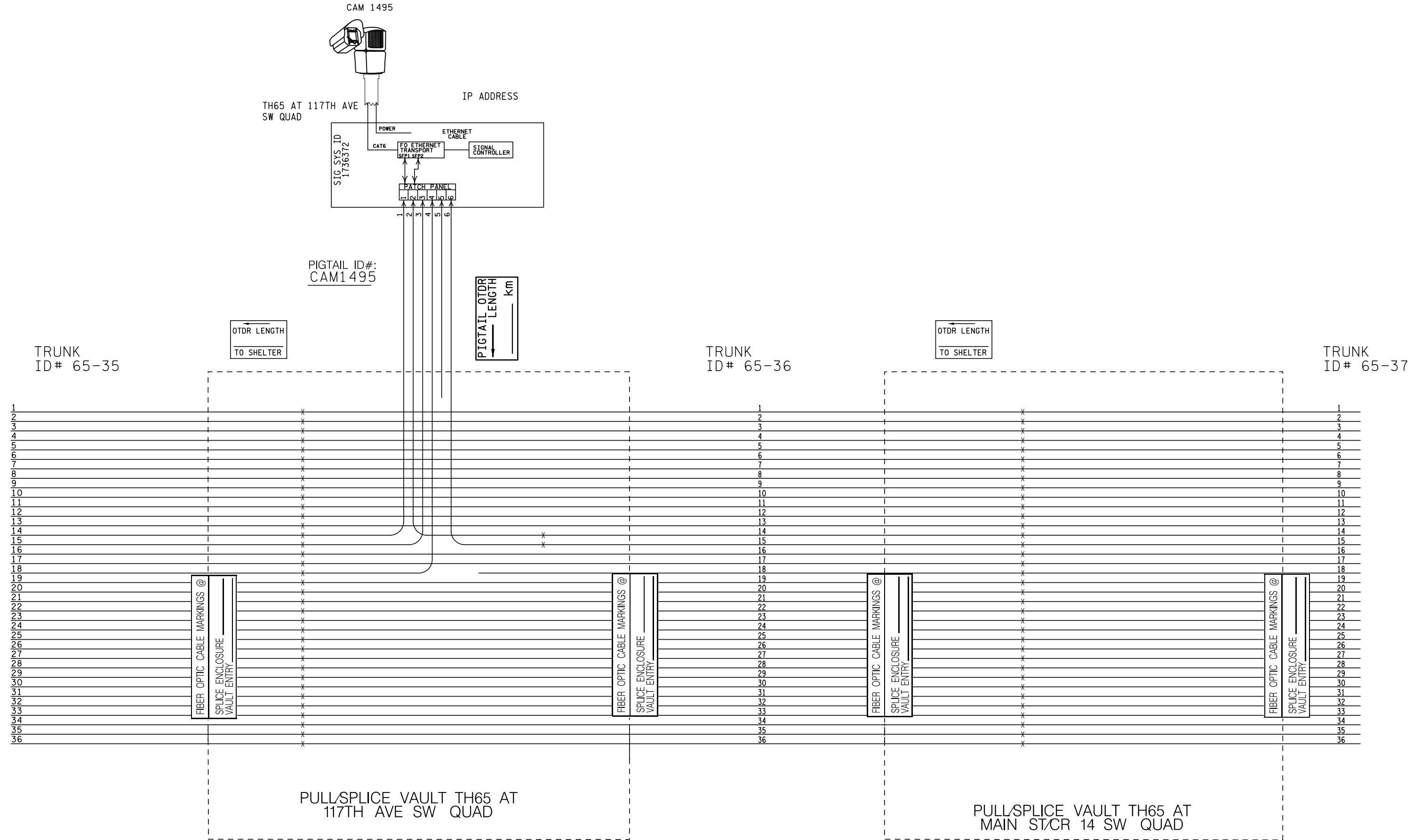


BY	DATE	REVISIONS
EJA	05-01-13	AS-BUILT OF SP 0207-94 + CORRECTIONS

SYSTEM ID: 22568	T.E.
METER ADDRESS: 11698 HWY 65	
MASTER ID: 21175	T.E.

MATCH LINES
 TH 65 AT 117TH AVE NE/CLOUD DRIVE
 BLAINE, ANOKA COUNTY

S.A.P. NO.	DRAWN BY: SJK	CKD BY: CDB	DATE: 05-23-11
CERTIFIED BY _____	LIC. NO. 19863	DATE: 05-23-11	
<small>LICENSED PROFESSIONAL ENGINEER</small>			
STATE PROJ. NO. (T.H. 65)		SHEET NO. 4 OF 4 SHEETS	



SP 002-632-021, SP 106-020-040, SP 106-125-009