NOTES:
1. WORK AT SIGNAL CONSISTS OF INSTALL PB ADAPTORS ON POLES 1 AND 3 AND SALVAGE AND REINSTALL EXISTING PB AND SIGNS. LOOP REPLACEMENT WORK WILL BE PAID UNDER RIGID PVC LOOP DETECTOR 6'X 6' PAY ITEM.
2. SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
3. ENSURE THE EXACT LOCATION OF THE HANDHOLES, POLES, LOOP DETECTORS AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY MNDOT OFFICE PERSONNEL.
4. FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING PLAN. PAVEMENT MARKINGS ARE INCIDENTAL.
5. FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK SEE INTERSECTION DETAIL PLAN.
6. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
7. USE PVC OR HDPE FOR ALL NEW CONDUIT.
8. CONDUIT SIZES ARE NOMINAL DIAMETER.
9. ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).

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

(A) EQUIPMENT PAD
SERVICE EQUIPMENT - 120/240 VOLT
PAD MOUNTED METER AND LOAD CENTER
CONTROLLER AND CABINET
METER TO HH 22:
2" RSC
3-1/C #2
BETWEEN METER AND LOAD CENTER
2" RSC
2-1/C #6
1-1/C #6 BR. GR.
LOAD CENTER TO HH 21:
2" RSC
4-3/C #12 (LUM)
INSTALL CONTROLLER AND CABINET
LOAD CENTER TO SIGNAL CABINET
2" RSC
2-1/C # 6
1-1/C # 6 BR.GR.

CABINET TO HH 21:
4" RSC
5-12/C #12
7-3/C #12
3-3/C #20
8-2/C #14
1-3/C#14 (CAM POWER)
1-COM CABLE
1-COAXIAL CABLE

CABINET TO HH 1:
4" RSC
5-12/C #12
7-3/C #12
2-3/C #20
14-2/C #14
BETWEEN HH 1 AND 21:
2" RSC
2-3/C #12 (LUM)
3" RSC STUBOUT (FUTURE USE)
THREAD AND CAP BOTH ENDS.
1" RSC STUBOUT FOR PHONE LINE
THREAD AND CAP BOTH ENDS

CONTROLLER CABINET
TO FO SPLICE VAULT
1-1.5" PVC INSIDE 3" RSC
1-PRE-TERMINATED ARMORED
FO PIGTAIL (6SM)

HH 11 TO 12:
2" PVC
2-2/C #14

HH 10 TO 11:
3" RSC
2-2/C #14

HH 9 TO 10:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
2-2/C #14

HH 7 TO 9:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
4-2/C #14

HH 7 TO 8:
2" PVC
2-2/C #14

HH 6 TO 7:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
9-2/C #14

HH 5 TO 6:
4" RSC
4-12/C #12
7-3/C #12
2-3/C #12 (LUM.)
2-3/C #20
10-2/C #14

HH 15 TO 16:
4" RSC
1-12/C #12
1-3/C #12
2-2/C #14

HH 16 TO 17:
2" RSC
1-12/C #12
1-3/C #12
2-2/C #14

HH 17 TO 20:
4" RSC
3-12/C #12
3-3/C #12
1-3/C #12 (LUM.)
2-3/C #20
6-2/C #14

HH 17 TO 18:
2" RSC
1-3/C #20
2-2/C #14

HH 18 TO 19:
1 1/4" RSC
1-3/C #20

HH 20 TO 21:
4" RSC
3-12/C #12
3-3/C #12
1-3/C #12 (LUM.)
2-3/C #20
8-2/C #14

HH 1 TO 5:
4" RSC
5-12/C #12
7-3/C #12
2-3/C #12 (LUM.)
12-2/C #14

HH 1 TO 2:
2" PVC
2-2/C #14

LOOP DETECTORS			
NUMBER	SIZE (FT)	TYPE	LOCATION
◆ D1-1	6 X 6	PVC	40
◆ D1-2	6 X 6	PVC	10
◆ D2-1,D2-2	6 X 6	PVC	475
D3-1	2-6 X 6	PVC	20 & 50
D3-2	2-6 X 6	PVC	5 & 35
D4-1	6 X 6	PVC	250
D4-3,D4-4	2-6 X 6	PVC	5 & 35
◆ D5-1	6 X 6	PVC	40
◆ D5-2	6 X 6	PVC	10
◆ D6-1,D6-2	6 X 6	PVC	475
D7-1	2-6 X 6	PVC	20 & 50
D7-2,D7-4	2-6 X 6	PVC	5 & 35
D7-3	6 X 6	PVC	250
D8-2	6 X 6	PVC	120
D8-3,D8-4	2-6 X 6	PVC	5 & 35

LOCATION = DISTANCE IN FEET FROM STOP LINE TO DETECTOR

T.H. 13 N.B. (40 MPH)
T.H. 55 W.B. (55 MPH)
T.H. 55 E.B. (55 M.P.H.)
T.H. 13 (30 MPH)
MATCHLINE A
MATCHLINE B
MATCHLINE C
MATCHLINE D

1.5" PVC
1-ARMORED FO CABLE (6SM)

1.5" HDPE BORE
1-ARMORED FO
PIGTAIL (6SM)

1.5" HDPE
1-FO CABLE (72SM)

FO SPLICE VAULT

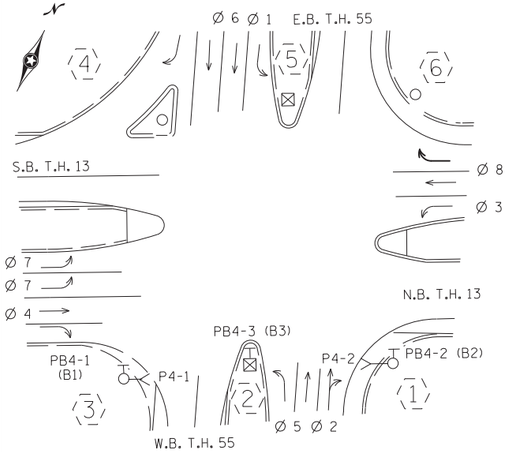
Ø 2 & Ø 5 EVP
Ø 3 & Ø 8 EVP
Ø 1 & Ø 6 EVP
Ø 4 & Ø 7 EVP

(B) WOOD POLE
2" RSC RISER AND WEATHERHEAD WITH 3-1/C #2
EXTEND INTO HH 22:
2" RSC
3-1/C #2

SPECIFIC NOTE:
(1) SALVAGE AND REINSTALL EXISTING PUSH BUTTONS WITH PUSH BUTTON ADAPTORS.

▲ DENOTES REVISE SIGNAL SYSTEM PAY ITEM WORK. ALL OTHER ITEMS SHOWN ARE INPLACE.
◆ DENOTES RIGID PVC LOOP DETECTOR 6'X6' PAY ITEM WORK.

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

40
SCALE IN FEET

BY	DATE	REVISIONS

SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: T.E.

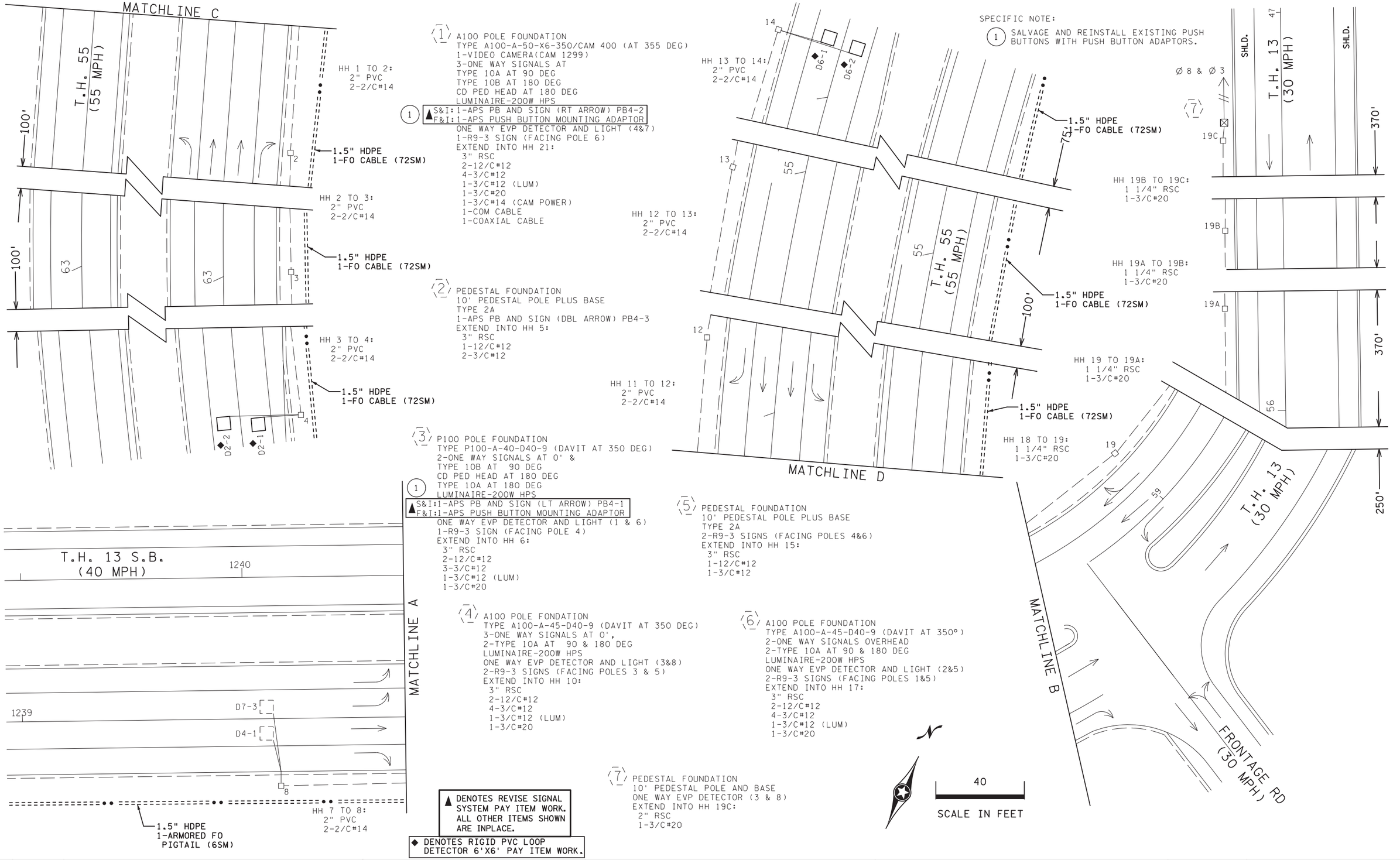
REVISE SIGNAL SYSTEM A
INTERSECTION LAYOUT
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY:MJB | CKD BY:RMV | DATE:9/15/21

CERTIFIED BY Gregory Kern LICENSED PROFESSIONAL ENGINEER LIC. NO. 26829 DATE: 9/16/21

STATE PROJ.NO. 1909-99 (T.H.55) SHEET NO. SS4 OF SS36 SHEETS

DISTRICT #: Metro
IPLOT NAME: (04 of 36) Sys A Layout
PATH & FILENAME: Projects\DM_ROS\01\30000\Traffic\Signals\2918 (TH 55\PENDING\E2Dseed.dgn
PLOTTED/REVISED: 16-SEP-2021



SPECIFIC NOTE:

(1) SALVAGE AND REINSTALL EXISTING PUSH BUTTONS WITH PUSH BUTTON ADAPTORS.

(1) A100 POLE FOUNDATION
TYPE A100-A-50-X6-350/CAM 400 (AT 355 DEG)
1-VIDEO CAMERA(CAM 1299)
3-ONE WAY SIGNALS AT
TYPE 10A AT 90 DEG
TYPE 10B AT 180 DEG
CD PED HEAD AT 180 DEG
LUMINAIRE-200W HPS
(1) ▲S&I:1-APS PB AND SIGN (RT ARROW) PB4-2
F&I:1-APS PUSH BUTTON MOUNTING ADAPTOR
ONE WAY EVP DETECTOR AND LIGHT (4&7)
1-R9-3 SIGN (FACING POLE 6)
EXTEND INTO HH 21:
3" RSC
2-12/C#12
4-3/C#12
1-3/C#12 (LUM)
1-3/C#20
1-3/C#14 (CAM POWER)
1-COM CABLE
1-COAXIAL CABLE

(2) PEDESTAL FOUNDATION
10' PEDESTAL POLE PLUS BASE
TYPE 2A
1-APS PB AND SIGN (DBL ARROW) PB4-3
EXTEND INTO HH 5:
3" RSC
1-12/C#12
2-3/C#12

(3) P100 POLE FOUNDATION
TYPE P100-A-40-D40-9 (DAVIT AT 350 DEG)
2-ONE WAY SIGNALS AT 0' &
TYPE 10B AT 90 DEG
CD PED HEAD AT 180 DEG
TYPE 10A AT 180 DEG
LUMINAIRE-200W HPS
(1) ▲S&I:1-APS PB AND SIGN (LT ARROW) PB4-1
F&I:1-APS PUSH BUTTON MOUNTING ADAPTOR
ONE WAY EVP DETECTOR AND LIGHT (1 & 6)
1-R9-3 SIGN (FACING POLE 4)
EXTEND INTO HH 6:
3" RSC
2-12/C#12
3-3/C#12
1-3/C#12 (LUM)
1-3/C#20

(4) A100 POLE FONDATION
TYPE A100-A-45-D40-9 (DAVIT AT 350 DEG)
3-ONE WAY SIGNALS AT 0',
2-TYPE 10A AT 90 & 180 DEG
LUMINAIRE-200W HPS
ONE WAY EVP DETECTOR AND LIGHT (3&8)
2-R9-3 SIGNS (FACING POLES 3 & 5)
EXTEND INTO HH 10:
3" RSC
2-12/C#12
4-3/C#12
1-3/C#12 (LUM)
1-3/C#20

(5) PEDESTAL FOUNDATION
10' PEDESTAL POLE PLUS BASE
TYPE 2A
2-R9-3 SIGNS (FACING POLES 4&6)
EXTEND INTO HH 15:
3" RSC
1-12/C#12
1-3/C#12

(6) A100 POLE FOUNDATION
TYPE A100-A-45-D40-9 (DAVIT AT 350°)
2-ONE WAY SIGNALS OVERHEAD
2-TYPE 10A AT 90 & 180 DEG
LUMINAIRE-200W HPS
ONE WAY EVP DETECTOR AND LIGHT (2&5)
2-R9-3 SIGNS (FACING POLES 1&5)
EXTEND INTO HH 17:
3" RSC
2-12/C#12
4-3/C#12
1-3/C#12 (LUM)
1-3/C#20

(7) PEDESTAL FOUNDATION
10' PEDESTAL POLE AND BASE
ONE WAY EVP DETECTOR (3 & 8)
EXTEND INTO HH 19C:
2" RSC
1-3/C#20

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

◆ DENOTES RIGID PVC LOOP DETECTOR 6'X6' PAY ITEM WORK.

BY	DATE	REVISIONS

SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: T.E.

REVISE SIGNAL SYSTEM A
INTERSECTION NOTES & MATCHLINES
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO.

DRAWN BY:MJB CKD BY:RMV DATE:9/15/21

CERTIFIED BY Gregory Kun LICENSED PROFESSIONAL ENGINEER LIC. NO. 26829 DATE: 9/16/21

STATE PROJ.NO. 1909-99 (T.H.55) SHEET NO. SS5 OF SS36 SHEETS

CONTROLLER CABINET

1
- RED 4-1
- YEL 4-1
- GRN 4-1 4-2
- NEU 4-3
- RED 4-2
- YEL 4-2
- GRN 4-2
- NEU 1-2
- RLTA 1-2
- YLTA 1-2
- GLTA 1-2
- EQ.G

2
- RLTA 7-1
- YLTA 7-
- GLTA 7-1
- NEU 7-1
- SPR
- SPR
- SPR
- NEU 7-3
- RLTA 7-3
- YLTA 7-3
- GLTA 7-3
- EQ.G

3
- RED 6-1
- YEL 6-1
- GRN 6-1
- NEU 6-1 6-2
- RED 6-2
- YEL 6-2
- GRN 6-2
- NEU 6-3
- RED 6-3
- YEL 6-3
- GRN 6-3
- EQ.G

4
- RLTA 3-2
- YLTA 3-2
- GLTA 3-2
- NEU 3-2
- SPR
- SPR
- SPR
- NEU P4-1
- WLK P4-1
- DWK P4-1
- SPR
- EQ.G

5
- RED 8-1
- YEL 8-1
- GRN 8-1
- NEU 8-1 8-2
- RED 8-2
- YEL 8-2
- GRN 8-2
- NEU 5-2
- RLTA 5-2
- YLTA 5-2
- GLTA 5-2
- EQ.G

6
- RLTA 3-1
- YLTA 3-1
- GLTA 3-1
- NEU 3-1
- SPR
- SPR
- SPR
- NEU 8-3
- RED 8-3
- YEL 8-3
- GRN 8-3
- EQ.G

7
- RED 2-1
- YEL 2-1
- GRN 2-1
- NEU 2-1 2-2
- RED 2-2
- YEL 2-2
- GRN 2-2
- NEU 2-3
- RED 2-3
- YEL 2-3
- GRN 2-3
- EQ.G

8
- 7-2 RLTA
- 7-2 YLTA
- 7-2 GLTA
- 7-2 NEU
- SPR
- SPR
- SPR
- P8-1 NEU
- P8-1 WLK
- P8-1 DWK
- SPR
- EQ.G

9
- 1-1 RLTA
- 1-1 YLTA
- 1-1 GLTA
- 1-1 NEU
- 4-4 RED
- 4-4 YEL
- 4-4 GRN
- 4-4 NEU
- SPR
- SPR
- SPR
- EQ.G

10
- 5-1 RLTA
- 5-1 YLTA
- 5-1 GLTA
- 5-1 NEU
- 8-4 RED
- 8-4 YEL
- 8-4 GRN
- 8-4 NEU
- SPR
- SPR
- SPR
- EQ.G

11
- SPR
- NEU
- SPR

12
- P4-2 WLK
- P4-2 NEU
- P4-2 DWK

13
- SPR
- NEU
- SPR

14
- SPR
- NEU
- PB4-1

15
- SPR
- NEU
- SPR

16
- SPR
- NEU
- SPR

17
- SPR
- NEU
- PB4-3

18
- SPR
- NEU
- PB4-2

19
- SPR
- NEU
- SPR

20
- SPR
- NEU
- SPR

21
- 4&7 EVP LT
- NEU
- SPR

22
- 2&5 EVP LT
- NEU
- SPR

23
- 1&6 EVP LT
- NEU
- SPR

24
- 3&8 EVP LT
- NEU
- SPR

25
- 4&7 EVP DETECTOR

26
- 2&5 EVP DETECTOR

27
- 1&6 EVP DETECTOR

28
- 3&8 EVP DETECTOR

29
- 3&8 EVP DETECTOR

30
- SIGNAL SERVICE

31 ◆ D1-1

32 ◆ D1-2

33 ◆ D2-1

34 ◆ D2-2

35 D3-1

36 D3-2

37 D4-1

38 D7-3

39 D4-3

40 D4-4

41 D7-4

42 ◆ D5-1

43 ◆ D5-2

44 ◆ D6-1

45 ◆ D6-2

46 D7-1

47 D7-2

48 SPARE

49 D8-2

50 D8-3

51 D8-4

57 PB4-3

96 6SM FIBER OPTIC → TO TMS SPLICE VAULT

99 CAMERA COM

98 CAM POWER, EQG, NEU

97 CAMERA COAX

LOAD CENTER

30 → 30 SIGNAL SERVICE

56 → 56 INCOMING SERVICE 3-1/C #2

S.O.P.

GR RD

LUMINAIRE /1\ 52

LUMINAIRE /2\ 53

LUMINAIRE /3\ 54

LUMINAIRE /4\ 55

52,53,54,55

(1)

(4-1) (4-2) (1-2)

1 2

4&7 EVP LT 21

P4-2 12

LUMINAIRE /1\ 52

CAMERA COAX 97

CAMERA COM 99

7-1 7-3

4&7 EVP DETECTOR

25 TO EVP HUB

SPR 11

PB4-2 30

CAMERA POWER 98

CONDUCTOR COLOR CODING

12/C#12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G

3/C#12: R, O, BL, WH, G

3/c#12: R, WH, BLK

3/c#20: R OR O, WH OR YEL, BLK OR BL

2-1/C#6: BLK, WH

2/C#14: BLK, CLEAR

3/c#14: BLK, G, WH

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

1,2,7,8,1-13,18,20-22,25,26,28,31,32,35,36,48-51,97-99

7,8,10,13,20,22,26,28, 31,32,35,36,48-51,55 TO HH 20

HH 21 GR RD

53,54

(2)

(1-1) (4-4)

HH 1

3-6,9,14-17,19,23,24, 27,29,33,34,3-47,57

9

PB4-3 17

17 (ABANDONED)

33,34

HH 5

3-6,9,1-19,23,24,27,29,37-47,53,54,57

PED PB STA PB4-3 57

42 D5-1

43 D5-2

HH 2 — 33,34 — HH 3 — 33,34 — HH 4

33 D2-1

34 D2-2

(3)

(6-1) (6-2) (6-3)

3 4

PB4-1 14

(3-2) P4-1

17 (ABANDONED)

1&6 EVP LT 23

1&6 DETECTOR 27 TO EVP HUB

LUMINAIRE /2\ 53

HH 6

3-6,14-17,19,23,24,27, 29,37-41,44-47,53,54

5,6,15,16,18,24,29,37, 38,39,40,41,44-47,54

HH 9

46 47

5,6,15,16,19,24, 29,44,45,54 TO HH 10

HH 7

39 40 41

37,38

HH 8

37 38

D7-1 D7-2 D4-3 D4-4 D7-4 D4-1 D7-3

5,6,15,16,19,24,29,44-47,54

◆ DENOTES RIGID PVC LOOP DETECTOR 6'X6' PAY ITEM WORK.

BY	DATE	REVISIONS

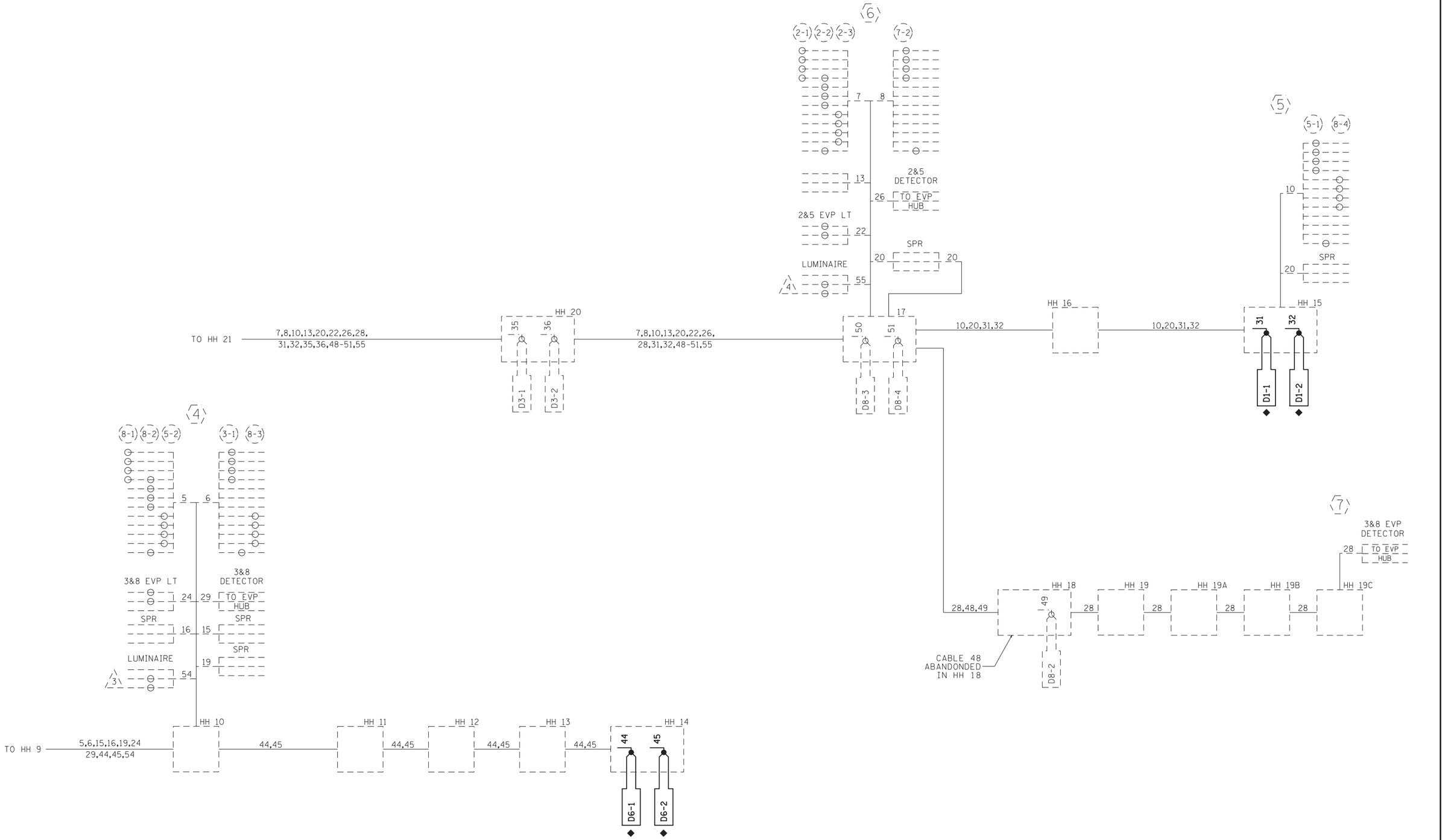
SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: T.E.

REVISE SIGNAL SYSTEM A
FIELD WIRING DIAGRAM (1 OF 2)
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY:MJB | CKD BY:RMV | DATE:9/15/21

CERTIFIED BY Gregory Kern LICENSED PROFESSIONAL ENGINEER LIC. NO. 26829 DATE: 9/16/21

STATE PROJ.NO. 1909-99 (T.H.55) SHEET NO. SS6 OF SS36 SHEETS



◆ DENOTES RIGID PVC LOOP DETECTOR 6'X6' PAY ITEM WORK.

BY	DATE	REVISIONS

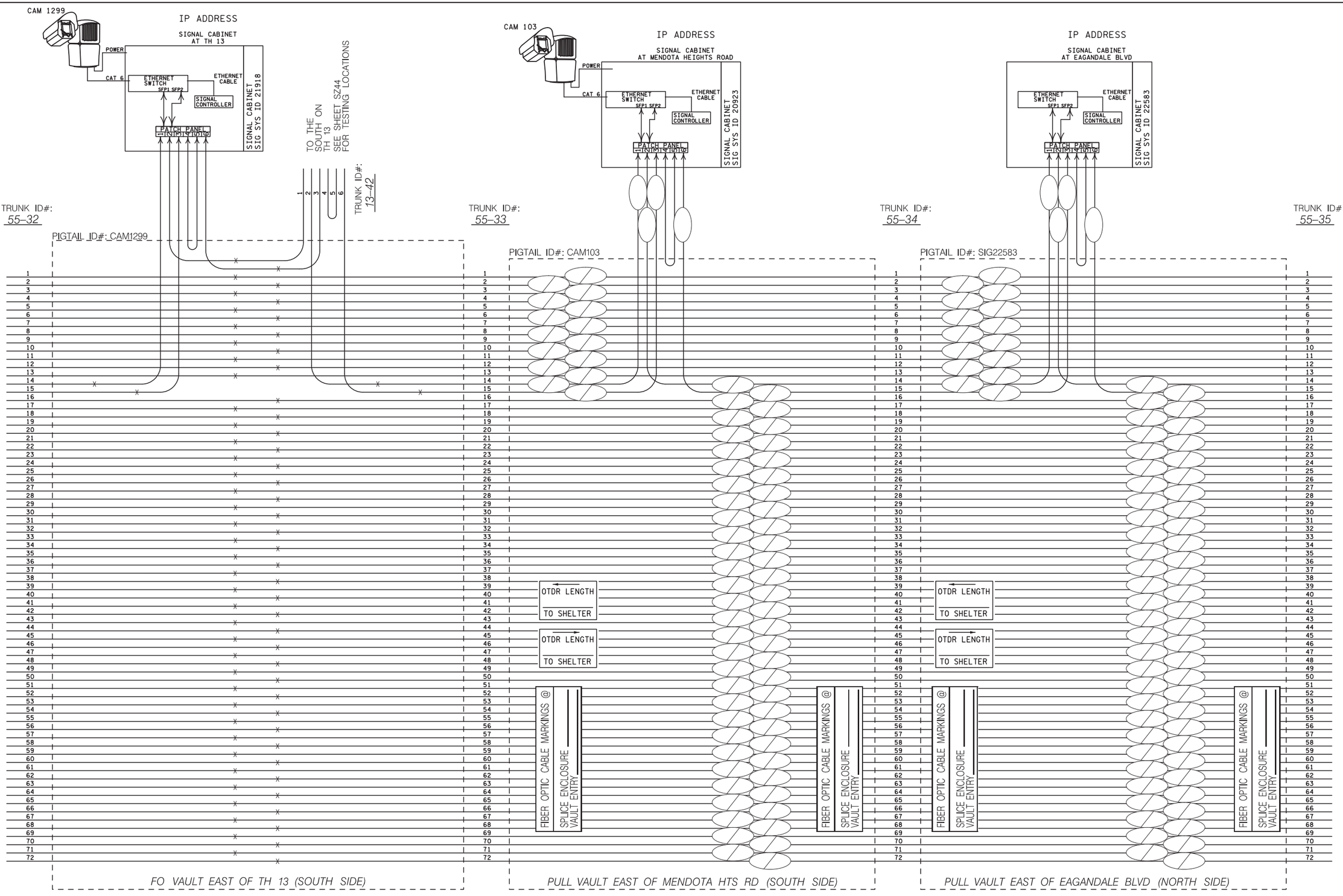
SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: T.E.

REVISE SIGNAL SYSTEM A
FIELD WIRING DIAGRAM (2 OF 2)
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY:MJB | CKD BY:RMV | DATE:9/15/21

CERTIFIED BY Gregory Kun LICENSED PROFESSIONAL ENGINEER LIC. NO. 26829 DATE: 9/16/21

STATE PROJ.NO. 1909-99 (T.H.55) SHEET NO. SS7 OF SS36 SHEETS

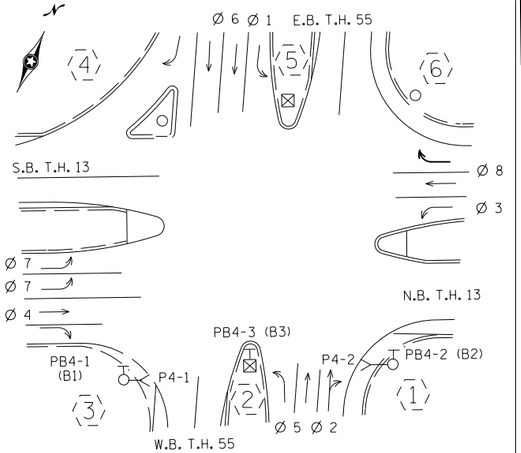


REV. NO.	DATE: / /	CERTIFIED BY _____ LIC.NO. 43957 JUNE 29 2021	STATE PROJ. NO. 1909-99 (TH 55) SHEET NO. SZ39 OF SZ45 SHEETS
REV. NO.	DATE: / /	LICENSED PROFESSIONAL ENGINEER	

PLOTTED/REVISED: 4-OCT-2018
DISTRICT #: Metro
IPLOT NAME: layout
PATH & FILENAME: Projects\DM_R0S\01\30000\Traffic\Signals\2918 (TH 55N2918A_sgl.dgn

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

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

(A) EQUIPMENT PAD
SERVICE EQUIPMENT - 120/240 VOLT
PAD MOUNTED METER AND LOAD CENTER
CONTROLLER AND CABINET
METER TO HH 22:
2" RSC
3-1/C #2
BETWEEN METER AND LOAD CENTER
2" RSC
2-1/C #6
1-1/C #6 BR. GR.
LOAD CENTER TO HH 21:
2" RSC
4-3/C #12 (LUM)
INSTALL CONTROLLER AND CABINET
LOAD CENTER TO SIGNAL CABINET
2" RSC
2-1/C # 6
1-1/C # 6 BR.GR.

CABINET TO HH 21:
4" RSC
5-12/C #12
7-3/C #12
3-3/C #20
8-2/C #14
1-3/C#14 (CAM POWER)
1-COM CABLE
1-COAXIAL CABLE

CABINET TO HH 1:
4" RSC
5-12/C #12
7-3/C #12
2-3/C #20
14-2/C #14
BETWEEN HH 1 AND 21:
2" RSC
2-3/C #12 (LUM)
3" RSC STUBOUT (FUTURE USE)
THREAD AND CAP BOTH ENDS.
1" RSC STUBOUT FOR PHONE LINE
THREAD AND CAP BOTH ENDS

CONTROLLER CABINET TO FO SPLICE VAULT
1-1.5" PVC INSIDE 3" RSC
1-PRE-TERMINATED ARMORED FO PIGTAIL (6SM)

LOOP DETECTORS			
NUMBER	SIZE (FT)	TYPE	LOCATION
D1-1	6 X 6	PVC	40
D1-2	6 X 6	PVC	10
D2-1,D2-2	6 X 6	PVC	475
D3-1	2-6 X 6	PVC	20 & 50
D3-2	2-6 X 6	PVC	5 & 35
D4-1	6 X 6	PVC	250
D4-3,D4-4	2-6 X 6	PVC	5 & 35
D5-1	6 X 6	PVC	40
D5-2	6 X 6	PVC	10
D6-1,D6-2	6 X 6	PVC	475
D7-1	2-6 X 6	PVC	20 & 50
D7-2,D7-4	2-6 X 6	PVC	5 & 35
D7-3	6 X 6	PVC	250
D8-2	6 X 6	PVC	120
D8-3,D8-4	2-6 X 6	PVC	5 & 35

LOCATION = DISTANCE IN FEET FROM STOP LINE TO DETECTOR

HH 11 TO 12:
2" PVC
2-2/C #14

HH 10 TO 11:
3" RSC
2-2/C #14

HH 9 TO 10:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
2-2/C #14

HH 7 TO 9:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
4-2/C #14

HH 7 TO 8:
2" PVC
2-2/C #14

HH 6 TO 7:
4" RSC
2-12/C #12
4-3/C #12
1-3/C #12 (LUM.)
1-3/C #20
9-2/C #14

HH 5 TO 6:
4" RSC
4-12/C #12
7-3/C #12
2-3/C #12 (LUM.)
2-3/C #20
10-2/C #14

HH 15 TO 16:
4" RSC
1-12/C #12
1-3/C #12
2-2/C #14

HH 16 TO 17:
2" RSC
1-12/C #12
1-3/C #12
2-2/C #14

HH 17 TO 20:
4" RSC
3-12/C #12
3-3/C #12
1-3/C #12 (LUM.)
2-3/C #20
6-2/C #14

HH 17 TO 18:
2" RSC
1-3/C #20
2-2/C #14

HH 18 TO 19:
1 1/4" RSC
1-3/C #20

HH 20 TO 21:
4" RSC
3-12/C #12
3-3/C #12
1-3/C #12 (LUM.)
2-3/C #20
8-2/C #14

HH 1 TO 5:
4" RSC
5-12/C #12
7-3/C #12
2-3/C #12 (LUM.)
12-2/C #14

HH 1 TO 2:
2" PVC
2-2/C #14

1.5" PVC
1-ARMORED FO CABLE (6SM)

1.5" HDPE BORE
1-ARMORED FO PIGTAIL (6SM)

1.5" HDPE
1-FO CABLE (72SM)

FO SPLICE VAULT

(B) WOOD POLE
2" RSC RISER AND WEATHERHEAD
WITH 3-1/C #2
EXTEND INTO HH 22:
2" RSC
3-1/C #2

Ø 1 & Ø 6 EVP
Ø 2 & Ø 5 EVP
Ø 3 & Ø 8 EVP
Ø 4 & Ø 7 EVP

MATCHLINE A
MATCHLINE B
MATCHLINE C
MATCHLINE D

T.H. 13 N.B.
(40 MPH)

T.H. 55 W.B.
(55 MPH)

T.H. 55 E.B.
(55 M.P.H.)

T.H. 13
(30 MPH)

N

40
SCALE IN FEET

BY	DATE	REVISIONS
EJA	07-24-15	AS-BUILT OF SP 8825-388 FIBER & CAMERA
JBA	10-04-18	AS BUILT CHANGE LANE PHASE 8, REMOVE D8-1

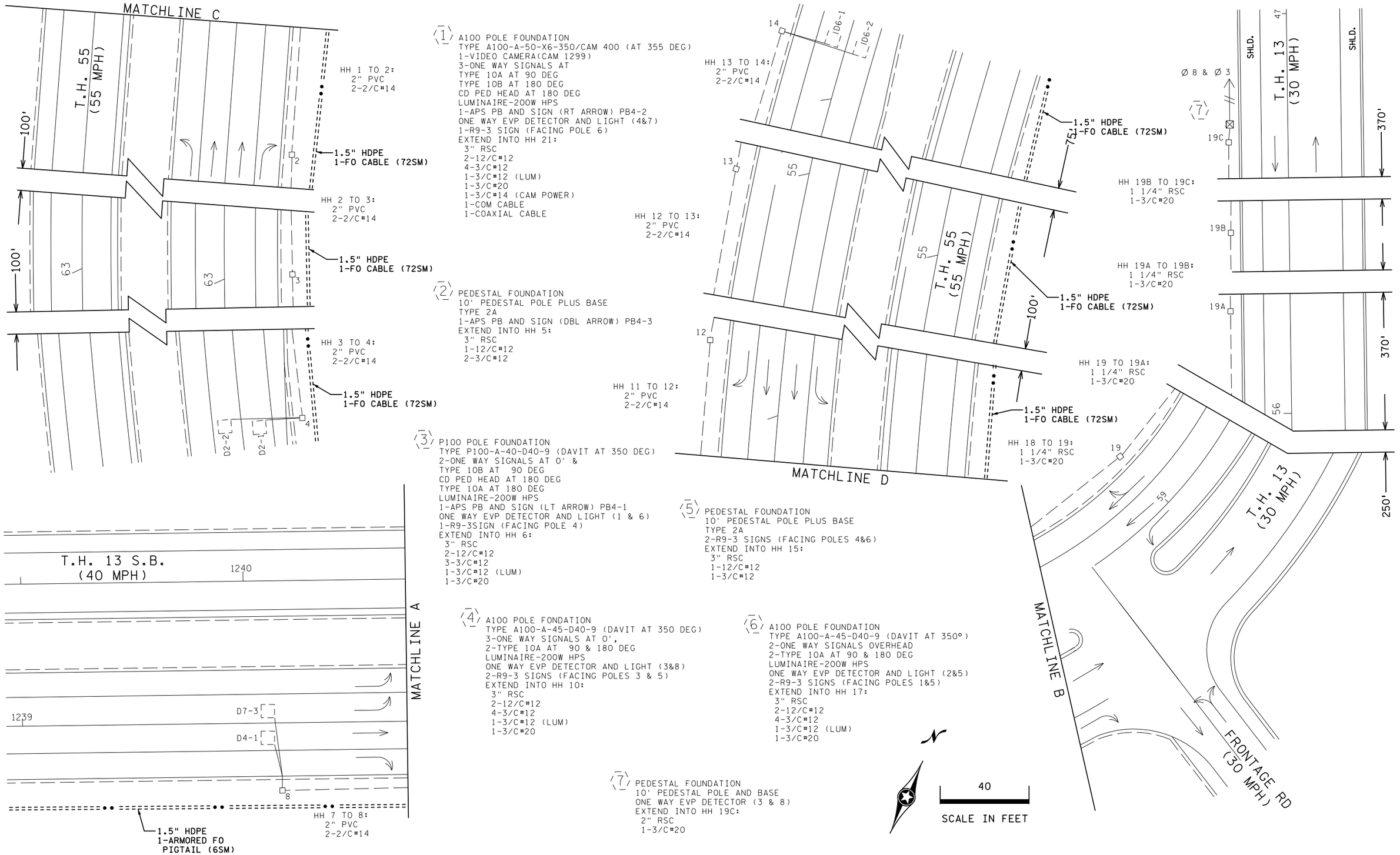
SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: 21918 T.E.

INTERSECTION LAYOUT
TRAFFIC CONTROL SIGNAL SYSTEM
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY: | CKD BY: | DATE:

CERTIFIED BY _____ LIC. NO. _____ DATE: _____
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. (T.H.13) SHEET NO. 1 OF 4 SHEETS



BY	DATE	REVISIONS
EJA	07-24-15	AS-BUILT OF SP 8825-388 FIBER & CAMERA
JBA	10-08-18	AS BUILT CHANGE LANE PHASE 8, REMOVE D8-1

SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: 21918 T.E.

INTERSECTION NOTES & MATCHLINES
TRAFFIC CONTROLE SIGNAL SYSTEM
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY: | CKD BY: | DATE:

CERTIFIED BY _____ LIC. NO. _____ DATE: _____
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. (T.H.13) SHEET NO. 2 OF 4 SHEETS

PLOTTED/REVISED: 4-OCT-2018

DISTRICT *: Metro
PLOT NAME: wiring diagram 1 of 2
PATH & FILENAME: Projects\DM_ROS\03\0000Traffic\Signals\2918 (TH 55\N2918A_sgl.dgn

CONTROLLER CABINET

1
- RED 4-1
- YEL 4-1
- GRN 4-1 4-2
- NEU 4-3
- RED 4-2
- YEL 4-2
- GRN 4-2
- NEU 1-2
- RLTA 1-2
- YLTA 1-2
- GLTA 1-2
- EQ.G

2
- RLTA 7-1
- YLTA 7-
- GLTA 7-1
- NEU 7-1
- SPR
- SPR
- SPR
- NEU 7-3
- RLTA 7-3
- YLTA 7-3
- GLTA 7-3
- EQ.G

3
- RED 6-1
- YEL 6-1
- GRN 6-1
- NEU 6-1 6-2
- RED 6-2
- YEL 6-2
- GRN 6-2
- NEU 6-3
- RED 6-3
- YEL 6-3
- GRN 6-3
- EQ.G

4
- RLTA 3-2
- YLTA 3-2
- GLTA 3-2
- NEU 3-2
- SPR
- SPR
- SPR
- NEU P4-1
- WLK P4-1
- DWK P4-1
- SPR
- EQ.G

5
- RED 8-1
- YEL 8-1
- GRN 8-1
- NEU 8-1 8-2
- RED 8-2
- YEL 8-2
- GRN 8-2
- NEU 5-2
- RLTA 5-2
- YLTA 5-2
- GLTA 5-2
- EQ.G

6
- RLTA 3-1
- YLTA 3-1
- GLTA 3-1
- NEU 3-1
- SPR
- SPR
- SPR
- NEU 8-3
- RED 8-3
- YEL 8-3
- GRN 8-3
- EQ.G

7
- RED 2-1
- YEL 2-1
- GRN 2-1
- NEU 2-1 2-2
- RED 2-2
- YEL 2-2
- GRN 2-2
- NEU 2-3
- RED 2-3
- YEL 2-3
- GRN 2-3
- EQ.G

8
- 7-2 RLTA
- 7-2 YLTA
- 7-2 GLTA
- 7-2 NEU
- SPR
- SPR
- SPR
- P8-1 NEU
- P8-1 WLK
- P8-1 DWK
- SPR
- EQ.G

9
- 1-1 RLTA
- 1-1 YLTA
- 1-1 GLTA
- 1-1 NEU
- 4-4 RED
- 4-4 YEL
- 4-4 GRN
- 4-4 NEU
- SPR
- SPR
- SPR
- EQ.G

10
- 5-1 RLTA
- 5-1 YLTA
- 5-1 GLTA
- 5-1 NEU
- 8-4 RED
- 8-4 YEL
- 8-4 GRN
- 8-4 NEU
- SPR
- SPR
- SPR
- EQ.G

11
- SPR
- NEU
- SPR

12
- P4-2 WLK
- P4-2 NEE
- P4-2 DWK

13
- SPR
- NEU
- SPR

14
- SPR
- NEU
- PB4-1

15
- SPR
- NEU
- SPR

16
- SPR
- NEU
- SPR

17
- SPR
- NEU
- PB4-3

18
- SPR
- NEU
- PB4-2

19
- SPR
- NEU
- SPR

20
- SPR
- NEU
- SPR

21
- 4&7 EVP LT
- NEU
- SPR

22
- 2&5 EVP LT
- NEU
- SPR

23
- 1&6 EVP LT
- NEU
- SPR

24
- 3&8 EVP LT
- NEU
- SPR

25
- 4&7 EVP DETECTOR

26
- 2&5 EVP DETECTOR

27
- 1&6 EVP DETECTOR

28
- 3&8 EVP DETECTOR

29
- 3&8 EVP DETECTOR

30
- SIGNAL SERVICE

31 D1-1
32 D1-2
33 D2-1
34 D2-2
35 D3-1
36 D3-2
37 D4-1
38 D7-3
39 D4-3
40 D4-4
41 D7-4
42 D5-1
43 D5-2
44 D6-1
45 D6-2
46 D7-1
47 D7-2
48 SPARE
49 D8-2
50 D8-3
51 D8-4
57 PB4-3

99 CAMERA COM
98 CAM POWER, EQG, NEU
97 CAMERA COAX

96 6SM FIBER OPTIC → TO TMS SPLICE VAULT

LOAD CENTER

30 → 30 SIGNAL SERVICE

56 → 56 INCOMING SERVICE 3-1/C #2

S.O.P.

GR RD

LUMINAIRE /1\ 52
LUMINAIRE /2\ 53
LUMINAIRE /3\ 54
LUMINAIRE /4\ 55

52,53,54,55

1,2,7,8,1-13,18,20-22,25,26,28,31,32,35,36,48-51,97-99

53,54

3-6,9,14-17,19,23,24, 27,29,33,34,3-47,57

33,34

3-6,9,1-19,23,24,27,29,37-47,53,54,57

PED PB STA PB4-3 57

3-6,14-17,19,23,24,27, 29,37-41,44-47,53,54

5,6,15,16,18,24,29,37, 38,39,40,41,44-47,54

5,6,15,16,19,24,29,44-47,54

5,6,15,16,19,24, 29,44,45,54 → TO HH 10

7,8,10,13,20,22,26,28, 31,32,35,36,48-51,55 → TO HH 20

HH 1
HH 2
HH 3
HH 4
HH 5
HH 6
HH 7
HH 8
HH 9
HH 21

(1)

(4-1) (4-2) (1-2)

4&7 EVP LT 21
P4-2 12
LUMINAIRE /1\ 52
CAMERA COAX 97
CAMERA COM 99

1 2

7-1 7-3

4&7 EVP DETECTOR
25 TO EVP HUB
SPR 11
PB4-2 30
CAMERA POWER 98

(2)

(1-1) (4-4)

9
PB4-3 17
17 (ABANDONED)

(3)

(6-1) (6-2) (6-3)

3 4

PB4-1 14
LUMINAIRE /2\ 53

3-2 P4-1

17 (ABANDONED)

1&6 EVP LT 23
1&6 DETECTOR 27 TO EVP HUB

CONDUCTOR COLOR CODING

12/C #12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G

2-1/C #6: BLK, WH

3/C #12: R, O, BL, WH, G

3/C #12: R, WH, BLK

3/C #20: R OR O, WH OR YEL, BLK OR BL

2/C #14: BLK, CLEAR

3/C #14: BLK, G, WH

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

BY	DATE	REVISIONS
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JBA	10-04-18	AS BUILT CHANGE LANE PHASE 8, REMOVE D8-1

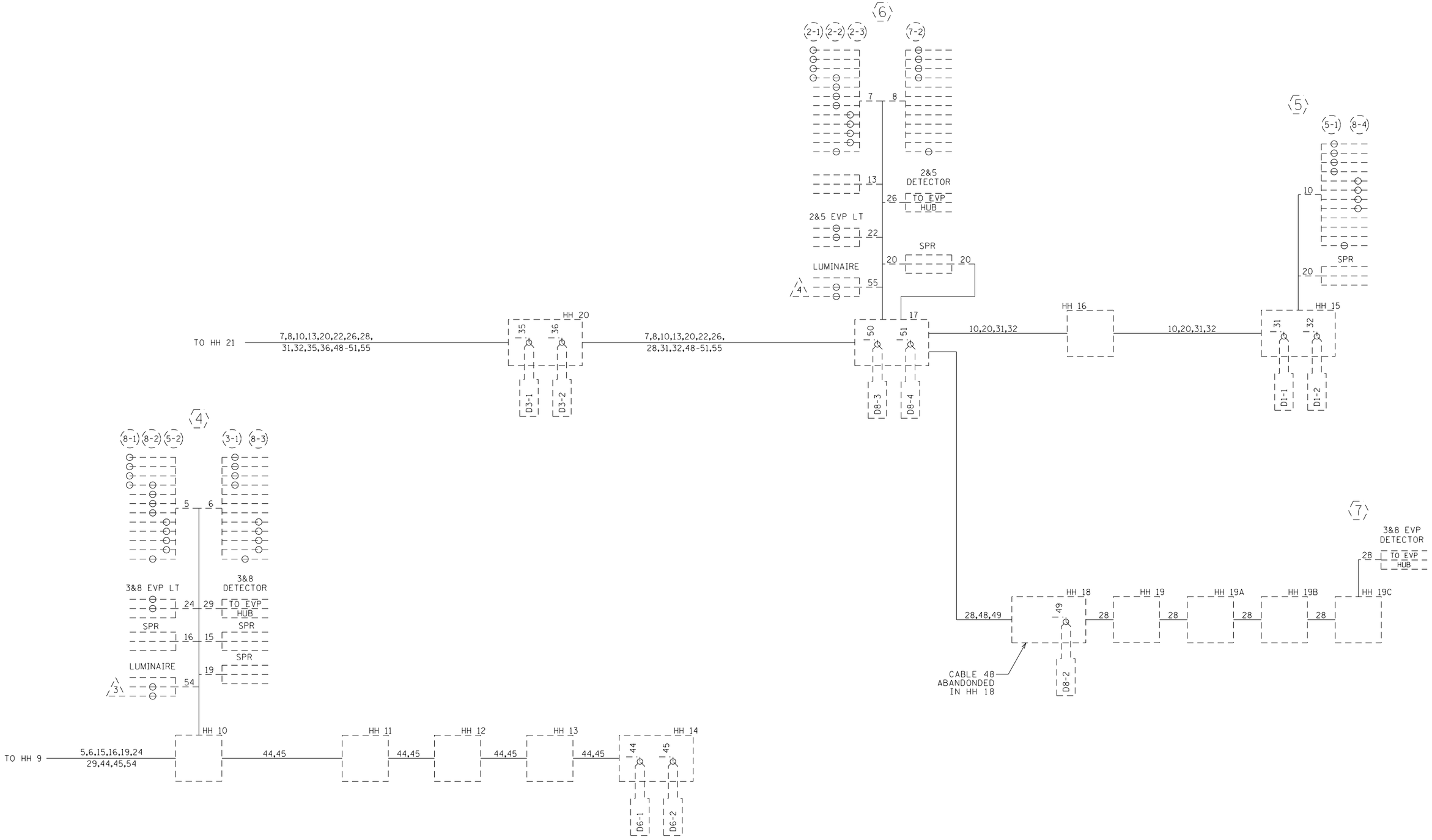
SYSTEM ID: 1735966 T.E.
METER ADDRESS: 2325 HWY 55
OLD SYSTEM ID: 21918 T.E.

FIELD WIRING DIAGRAM (1 OF 2)
TRAFFIC CONTROLE SIGNAL SYSTEM
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY: | CKD BY: | DATE:

CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER LIC. NO. _____ DATE: _____

STATE PROJ.NO. 8825-388 (T.H.13) SHEET NO. 3 OF 4 SHEETS



DISTRICT *: Metro
IPLOT NAME: wiring diagram 2 of 2
PATH & FILENAME: Projects\DM_ROS\0I3\0000\Traffic\Signals\2I9I8 (TH 55\N2I9I8A_sgl.dgn
PLOTTED/REVISED: 4-OCT-2018

BY	DATE	REVISIONS
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FIELD WIRING DIAGRAM (2 OF 2)
TRAFFIC CONTROLE SIGNAL SYSTEM
T.H. 13 AT T.H. 55
IN MENDOTA HEIGHTS, DAKOTA COUNTY

S.A.P. NO. | DRAWN BY: | CKD BY: | DATE:

CERTIFIED BY _____ LIC. NO. _____ DATE: _____
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. (T.H.13) SHEET NO. 4 OF 4 SHEETS