

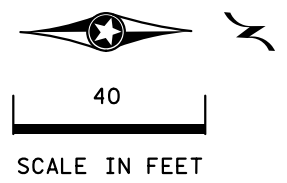
PLOTTED/REVISED: 11/8/2016

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

-ALL SIGNAL INDICATIONS ARE 12" LED
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

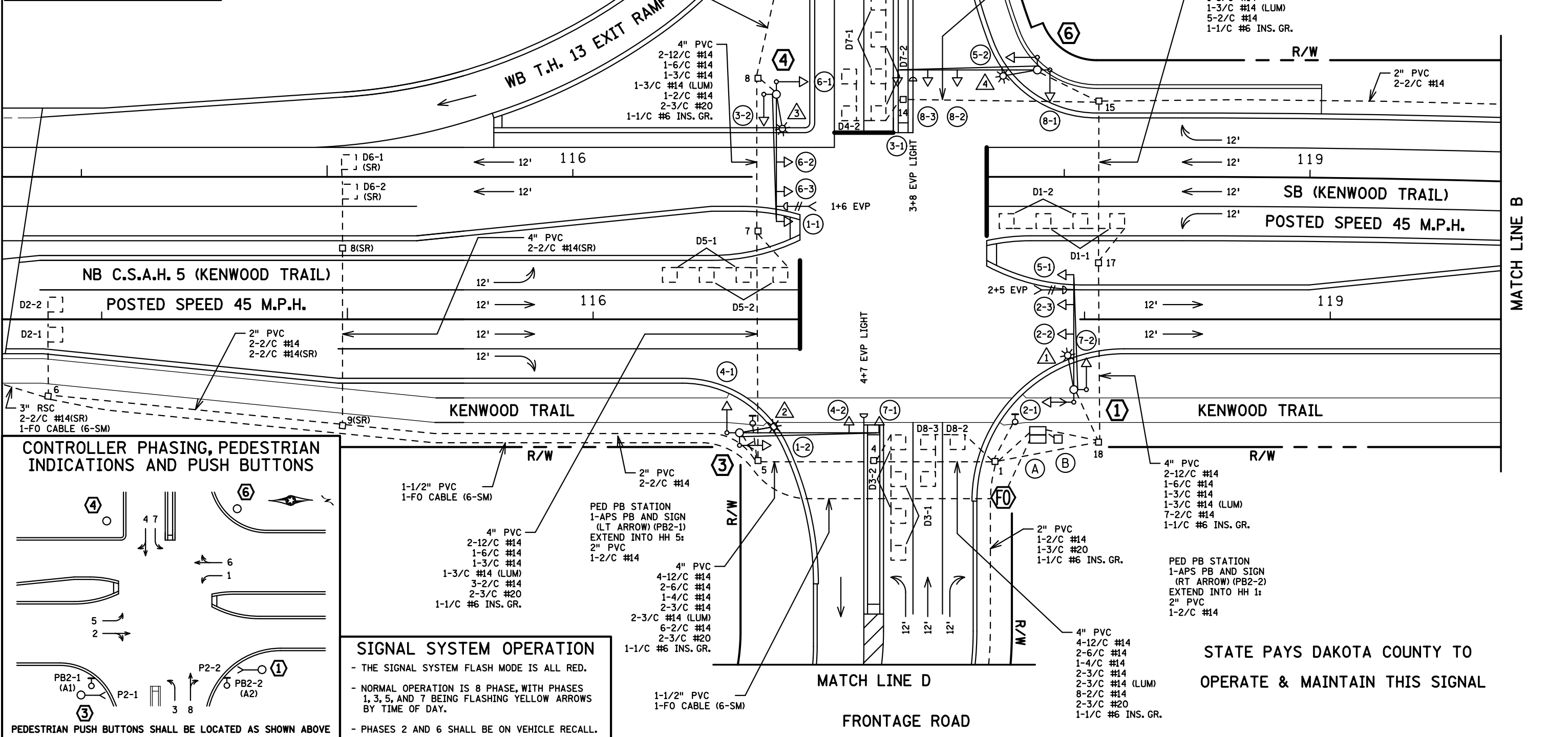
WB T.H. 13 EXIT RAMP

MATCH LINE C



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	300
D3-1, D7-1	2-6x6	20 & 50
D3-2, D7-2	2-6x6	5 & 35
D4-1, D8-1	6x6	120
D4-2, D8-3	2-6x6	5 & 20
D6-1, D6-2	6x6	300
D8-2	6x6	5

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



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 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

BY	DATE	REVISIONS
EJA	01-27-15	AS-BUILT OF SP 1901-148
EJA	01-14-16	PLAN UPDATES
CDB	11/8/16	MOVE POLE 5 TO OTHER SIDE OF RAMP PER TE#6518

SYSTEM ID: 39427 T.E.
 METER ADDRESS: 12707 COUNTY ROAD 5
 MASTER ID: T.E.

INTERSECTION LAYOUT
T.H. 13 AT C.S.A.H. 5 (KENWOOD TRAIL) N. RAMP
IN BURNSVILLE, DAKOTA COUNTY

BY: GDS	DATE: 05-09-12
CERTIFIED BY: _____	LIC. NO. _____ DATE: _____
STATE PROJ. NO. (T.H.13)	SHEET NO. 1 OF 5 SHEETS

DISTRICT #: METRO
 IPLOT NAME: SHEET-J
 PATH & FILENAME: IP_PWP-d1336560\T39427_sgl.dgn

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

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

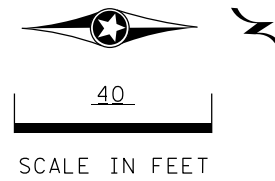
- 5 PEDESTAL FOUNDATION
13' PEDESTAL POLE PLUS BASE
1-ONE WAY EVP DETECTOR
(PHASES 4+7)
2" PVC TO HH 13:
1-3/C#20
1-1/C#6 INS GR



- 4" PVC
1-3/C #20
1-1/C #6 INS. GR.

- 2" PVC
1-3/C #20
1-1/C #6 INS. GR.

- 2" PVC
1-3/C #20
1-1/C #6 INS. GR.



INTERSECTION NOTES

- 4 PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD
AT 11' AND 23'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 1+6)
LUMINAIRE-250W HPS
1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
2-R9-3 SIGNS (FACING POLES 3 AND 6)
2-TYPE D SIGNS (D-4, D-5) (SEE SIGN DETAILS)
3" PVC TO HH 8:
2-12/C #14
1-6/C #14
1-3/C #14
1-3/C #14 (LUM)
1-3/C #20
1-1/C #6 INS. GR.

- 6 PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD
AT 11' AND 23'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
1-ONE WAY EVP CONFIRMATORY LIGHT
(PHASES 3+8)
LUMINAIRE-250W HPS
1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
2-R9-3 SIGNS (FACING POLES 1 AND 4)
2-TYPE D SIGNS (D-3, D-6) (SEE SIGN DETAILS)
3" PVC TO HH 15:
2-12/C #14
1-6/C #14
1-3/C #14
1-3/C #14 (LUM)
1-1/C #6 INS. GR.

- 3 PA100 POLE FOUNDATION
PA100-A-55-D40-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
1-ANGLE MOUNT C.D. PED HEAD AT 90 DEG
1-ONE WAY EVP CONFIRMATORY LIGHT
(PHASES 4+7)
LUMINAIRE-250W HPS
1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
1-R9-3 SIGN (FACING POLE 4)
1-TYPE D SIGN (D-3) (SEE SIGN DETAILS)
3" PVC TO HH 5:
2-12/C #14
1-6/C #14
1-4/C #14
1-3/C #14
1-3/C #14 (LUM)
1-1/C #6 INS. GR.

- 1 PA100 POLE FOUNDATION
TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD
AT 11' AND 23'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
1-ANGLE MOUNT C.D. PED HEAD AT 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 2+5)
LUMINAIRE-250W HPS
1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
1-R9-3 SIGN (FACING POLE 6)
2-TYPE D SIGNS (D-1, D-2) (SEE SIGN DETAILS)
3" PVC TO HH 18:
2-12/C #14
1-6/C #14
1-4/C #14
1-3/C #14
1-3/C #14 (LUM)
1-3/C #20
1-1/C #6 INS. GR.

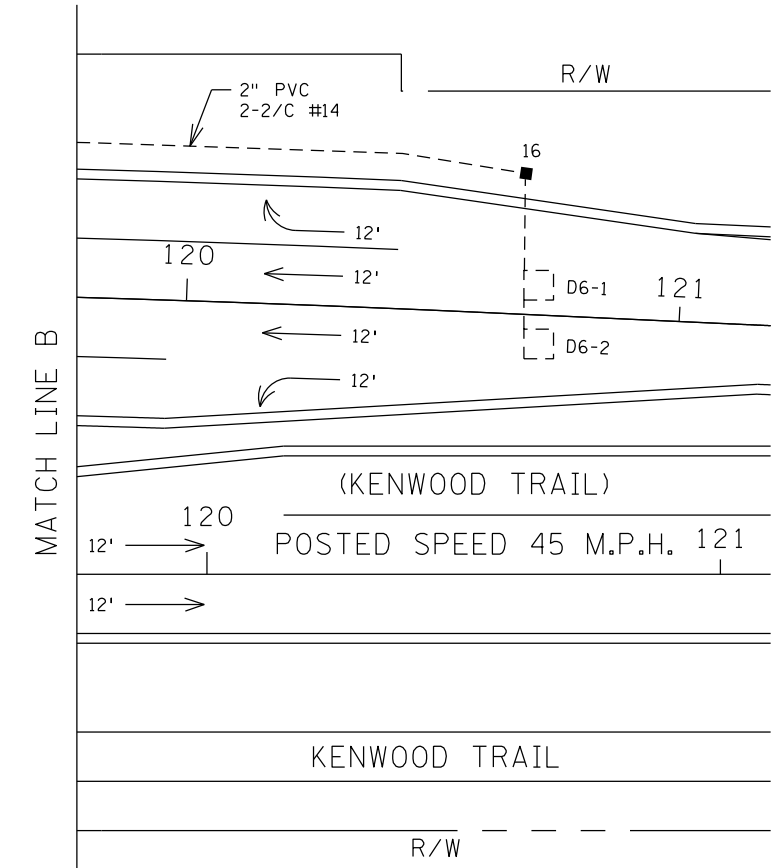
WB T.H. 13 EXIT RAMP

MATCH LINE C

MATCH LINE D

FRONTAGE ROAD

- 2 PEDESTAL FOUNDATION
13' PEDESTAL POLE PLUS BASE
1-ONE WAY EVP DETECTOR
(PHASES 3+8)
2" PVC TO HH 3:
1-3/C#20
1-1/C#6 INS GR



- A EQUIPMENT PAD (SEE DETAIL SHEET)
SERVICE CABINET (SSB)
CONTROLLER AND CABINET
4" PVC TO HH 1:
4-12/C #14
2-6/C #14
2-3/C #14
12-2/C #14
3-3/C #20
1-1/C #6 INS. GR.
- 4" PVC TO HH 18:
4-12/C #14
2-6/C #14
1-4/C #14
2-3/C #14
7-2/C #14
1-3/C #20
1-1/C #6 INS. GR.

- 2-2" AND 1-3" PVC STUBBED OUT (CAPPED BOTH ENDS
3/4" PVC STUBBED OUT (FOR TELEPHONE LINE)
CONTROLLER CABINET TO SERVICE CABINET:
2" PVC
2-1/C #6
1-1/C #6 INS. GR.
CONTROLLER CABINET TO SERVICE CABINET (COMMS):
2" PVC
1-6PR #19 (SPARE)
SERVICE CABINET TO GROUND MOUNTED TRANSFORMER:
2" PVC
3-1/C #2
SERVICE CABINET TO HH 18:
2" PVC
4-3/C #14 (LUM)
HH 18 TO HH 1:
2" PVC
2-3/C #14 (LUM)

- B SOP-GROUND MOUNTED
TRANSFORMER (XCEL ENERGY)
2" PVC INTO SERVICE CABINET:
3-1/C #2

STATE PAYS DAKOTA COUNTY TO OPERATE & MAINTAIN THIS SIGNAL

BY	DATE	REVISIONS
EJA	01-27-15	AS-BUILT OF SP 1901-148
EJA	01-14-16	PLAN UPDATES

SYSTEM ID: 39427	T.E.
METER ADDRESS: 12707 COUNTY ROAD 5	
MASTER ID:	T.E.

MATCH LINE LAYOUT/INTERSECTION NOTES
T.H. 13 AT C.S.A.H. 5 (KENWOOD TRAIL) N. RAMP
IN BURNSVILLE, DAKOTA COUNTY

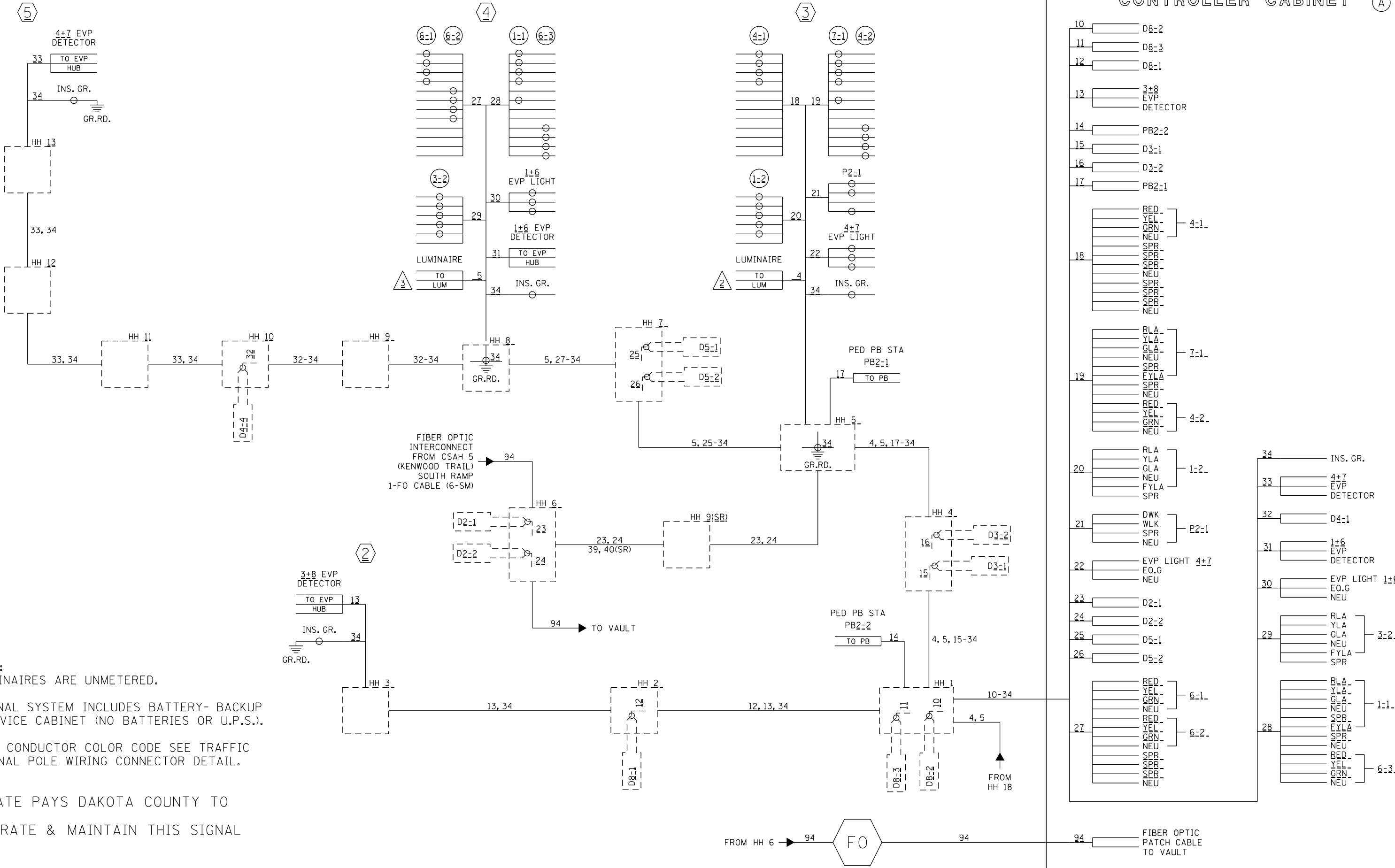
CERTIFIED BY _____	LIC. NO. _____	DATE: _____
STATE PROJ. NO. _____ (T.H. 13)	SHEET NO. 2	OF 5 SHEETS

DRAWN BY: GDS CKD BY: EJA DATE: 05-09-12

CONTROLLER CABINET (A)

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

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



NOTES:
 1. LUMINAIRES ARE UNMETERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).
 3. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.

STATE PAYS DAKOTA COUNTY TO OPERATE & MAINTAIN THIS SIGNAL

BY	DATE	REVISIONS
EJA	01-27-15	AS-BUILT OF SP 1901-148
EJA	01-14-16	PLAN UPDATES

SYSTEM ID: 39427	T.E. _____
METER ADDRESS: 12707 COUNTY ROAD 5	T.E. _____
MASTER ID: _____	T.E. _____

FIELD WIRING DIAGRAM (1 OF 2)
 T.H. 13 AT C.S.A.H. 5 (KENWOOD TRAIL) N. RAMP
 IN BURNSVILLE, DAKOTA COUNTY

CERTIFIED BY _____	LIC. NO. _____	DATE: _____
STATE PROJ. NO. _____ (T.H. 13) SHEET NO. 3 OF 5 SHEETS		

DRAWN BY: GDS CKD BY: EJA DATE: 05-09-12

