

PLOTTED/REVISED: 12-JUN-2020

PROJECT: DM_R0506100001\Traffic\Signal\39166 (Wyoming Tr)\PENDING\T39166.dgn

DISTRICT #: Metro
PLOT NAME: 030
PATH & FILENAME: Projects\DM_R0506100001\Traffic\Signal\39166 (Wyoming Tr)\PENDING\T39166.dgn

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1	6x6	250
D6-1	6x6	250
D8-1	6x6	INP
D8-2	6x6	5 & 20
D8-3	6x6	5

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

NOTES

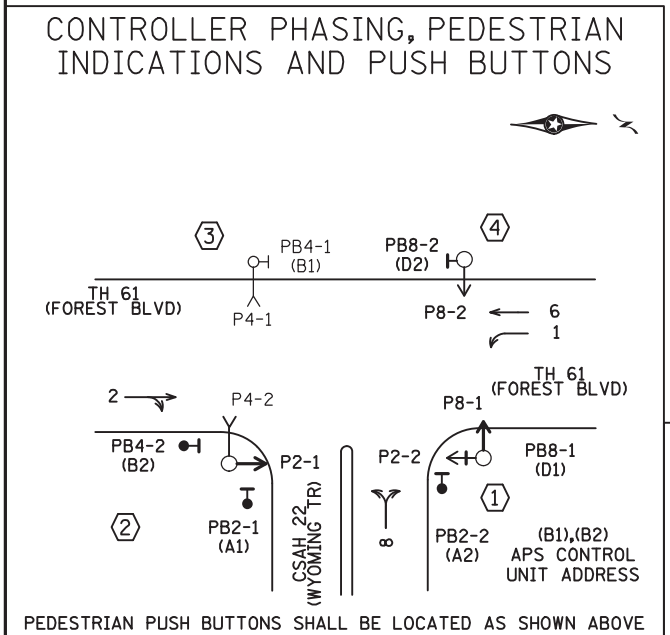
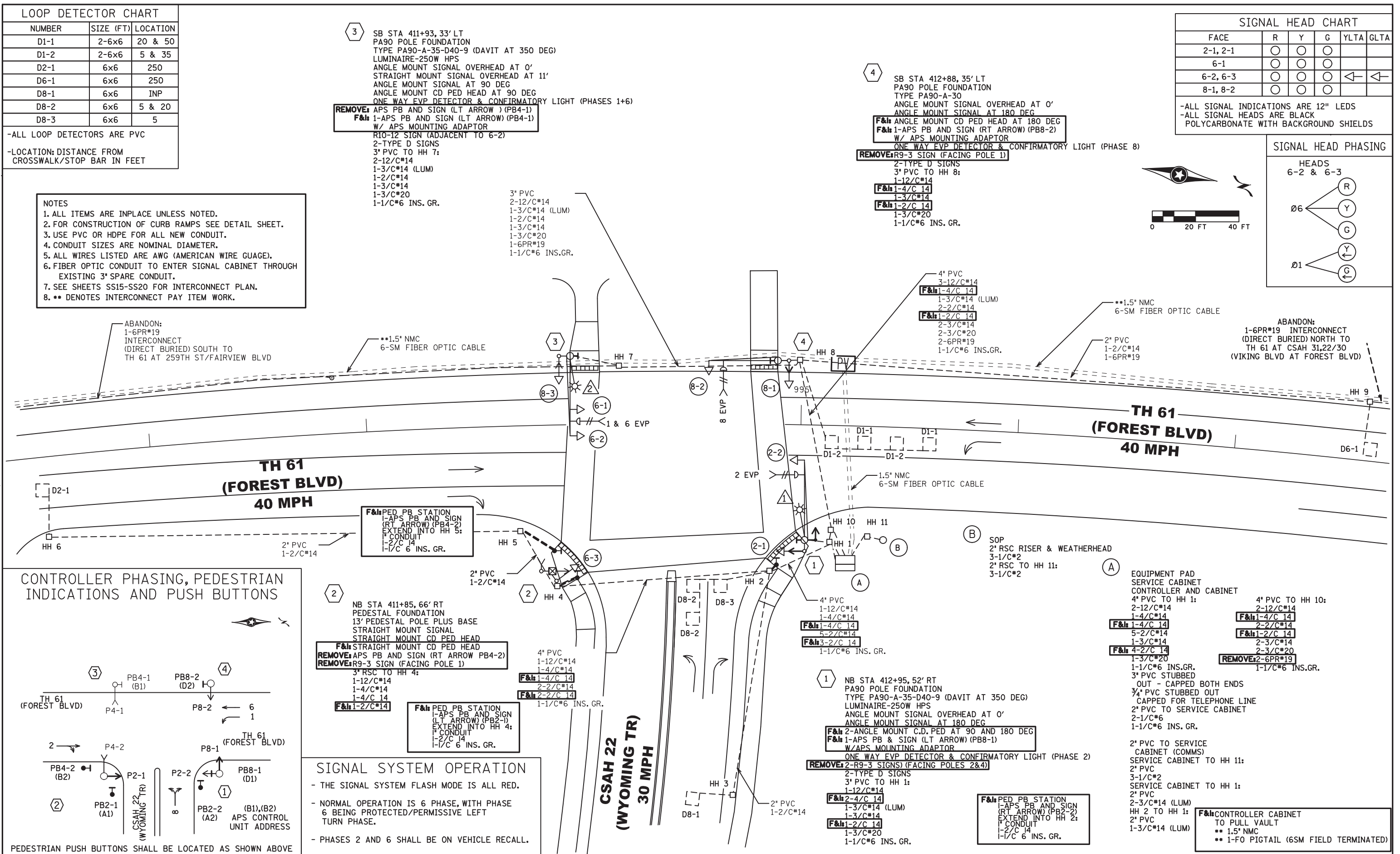
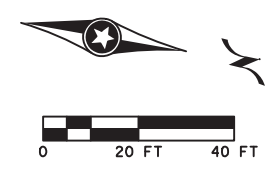
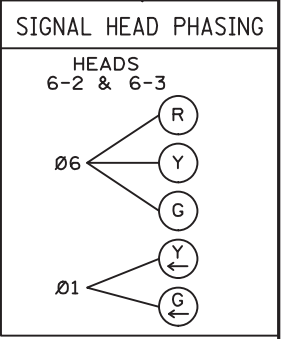
- ALL ITEMS ARE INPLACE UNLESS NOTED.
- FOR CONSTRUCTION OF CURB RAMPS SEE DETAIL SHEET.
- USE PVC OR HDPE FOR ALL NEW CONDUIT.
- CONDUIT SIZES ARE NOMINAL DIAMETER.
- ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
- FIBER OPTIC CONDUIT TO ENTER SIGNAL CABINET THROUGH EXISTING 3" SPARE CONDUIT.
- SEE SHEETS SS15-SS20 FOR INTERCONNECT PLAN.
- ** DENOTES INTERCONNECT PAY ITEM WORK.

3 SB STA 411+93, 33' LT
PA90 POLE FOUNDATION
TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250W HPS
ANGLE MOUNT SIGNAL OVERHEAD AT 0'
STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
ANGLE MOUNT SIGNAL AT 90 DEG
ANGLE MOUNT CD PED HEAD AT 90 DEG
ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASES 1+6)
REMOVE: APS PB AND SIGN (LT ARROW) (PB4-1)
F&ls: 1-APS PB AND SIGN (RT ARROW) (PB4-1)
W/ APS MOUNTING ADAPTOR
RIO-12 SIGN (ADJACENT TO 6-2)
2-TYPE D SIGNS
3" PVC TO HH 7:
2-12/C*14
1-3/C*14 (LUM)
1-2/C*14
1-3/C*14
1-3/C*20
1-1/C*6 INS. GR.

4 SB STA 412+88, 35' LT
PA90 POLE FOUNDATION
TYPE PA90-A-30
ANGLE MOUNT SIGNAL OVERHEAD AT 0'
ANGLE MOUNT SIGNAL AT 180 DEG
F&ls: ANGLE MOUNT CD PED HEAD AT 180 DEG
F&ls: 1-APS PB AND SIGN (RT ARROW) (PB8-2)
W/ APS MOUNTING ADAPTOR
ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 8)
REMOVE: R9-3 SIGN (FACING POLE 1)
2-TYPE D SIGNS
3" PVC TO HH 8:
1-12/C*14
F&ls: 1-4/C 14
1-3/C*14
F&ls: 1-2/C 14
1-3/C*20
1-1/C*6 INS. GR.

SIGNAL HEAD CHART					
FACE	R	Y	G	YLTA	GLTA
2-1, 2-1	○	○	○		
6-1	○	○	○		
6-2, 6-3	○	○	○	←	←
8-1, 8-2	○	○	○		

-ALL SIGNAL INDICATIONS ARE 12" LEDS
-ALL SIGNAL HEADS ARE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS



2 NB STA 411+85, 66' RT
PEDESTAL FOUNDATION
13' PEDESTAL POLE PLUS BASE
STRAIGHT MOUNT SIGNAL
STRAIGHT MOUNT CD PED HEAD
F&ls: STRAIGHT MOUNT CD PED HEAD
REMOVE: APS PB AND SIGN (RT ARROW) (PB4-2)
REMOVE: R9-3 SIGN (FACING POLE 1)
3" RSC TO HH 4:
1-12/C*14
1-4/C*14
1-4/C 14
F&ls: 1-2/C*14
4" PVC
1-12/C*14
1-4/C*14
F&ls: 1-4/C 14
5-2/C*14
F&ls: 3-2/C 14
1-1/C*6 INS. GR.

1 NB STA 412+95, 52' RT
PA90 POLE FOUNDATION
TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
LUMINAIRE-250W HPS
ANGLE MOUNT SIGNAL OVERHEAD AT 0'
ANGLE MOUNT SIGNAL AT 180 DEG
F&ls: 2-ANGLE MOUNT C.D. PED AT 90 AND 180 DEG
F&ls: 1-APS PB & SIGN (LT ARROW) (PB8-1)
W/ APS MOUNTING ADAPTOR
ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 2)
REMOVE: 2-R9-3 SIGNS (FACING POLES 2&4)
2-TYPE D SIGNS
3" PVC TO HH 1:
1-12/C*14
F&ls: 2-4/C 14
1-3/C*14 (LUM)
1-3/C*14
F&ls: 1-2/C 14
1-3/C*20
1-1/C*6 INS. GR.

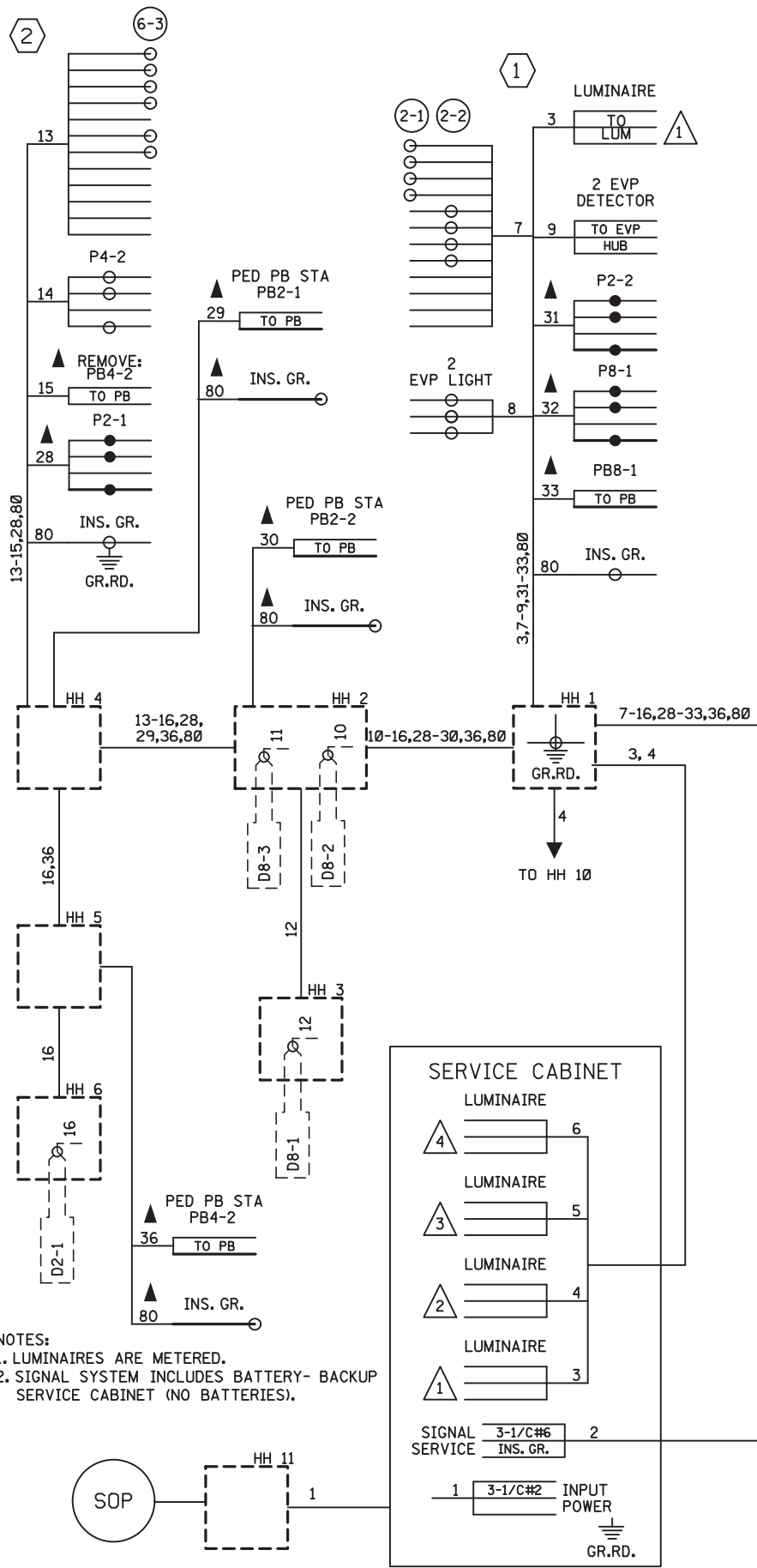
A EQUIPMENT PAD
SERVICE CABINET
CONTROLLER AND CABINET
4" PVC TO HH 1:
2-12/C*14
1-4/C*14
F&ls: 1-4/C 14
5-2/C*14
1-3/C*14
F&ls: 4-2/C 14
1-3/C*20
1-1/C*6 INS. GR.
3" PVC STUBBED
OUT - CAPPED BOTH ENDS
3/4" PVC STUBBED OUT
CAPPED FOR TELEPHONE LINE
2" PVC TO SERVICE CABINET
2-1/C*6
1-1/C*6 INS. GR.
2" PVC TO SERVICE CABINET (COMMS)
SERVICE CABINET TO HH 11:
2" PVC
3-1/C*2
SERVICE CABINET TO HH 1:
2" PVC
2-3/C*14 (LUM)
HH 2 TO HH 1:
2" PVC
1-3/C*14 (LUM)
F&ls: CONTROLLER CABINET TO PULL VAULT
** 1.5" NMC
** 1-FO PIGTAIL (6SM FIELD TERMINATED)

SIGNAL SYSTEM OPERATION

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

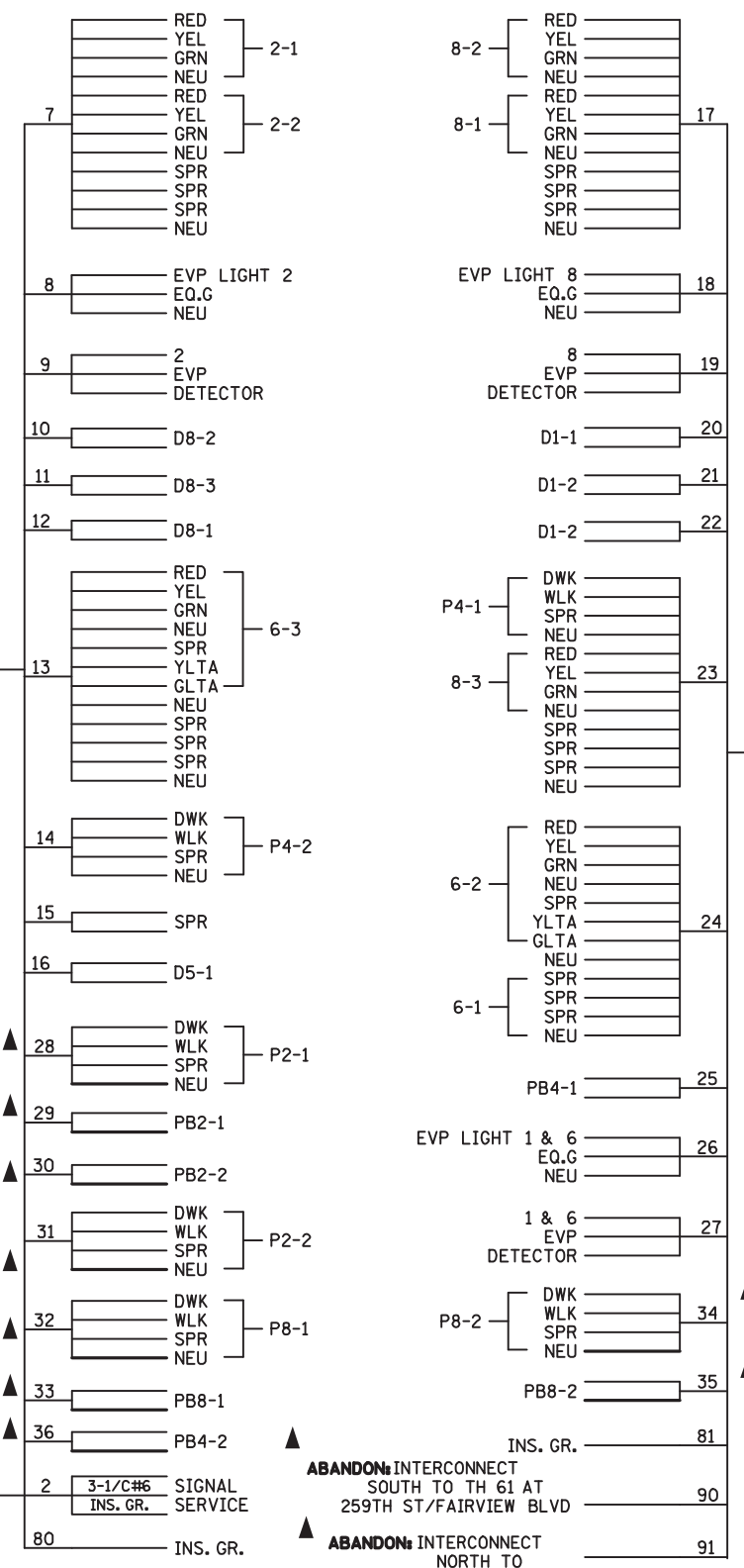
BY	DATE	REVISIONS	SYSTEM ID: 1736769 T.E. 22905	METER ADDRESS: 5310 WYOMING TRAIL	OLD SYSTEM ID: 39166 T.E.	INTERSECTION LAYOUT REVISE SIGNAL SYSTEM "C" TH 61 AT CSAH 22 (WYOMING TRAIL) IN WYOMING, CHISAGO COUNTY	S.A.P. NO. 248-110-003	CERTIFIED BY: <i>Gregory Ken</i> LICENSED PROFESSIONAL ENGINEER	LIC. NO. 26829	DATE: 5-18-20	DRAWN BY: JAR	CKD BY: GAK	DATE:
STATE PROJ. NO. 1302-23 (T.H.61) SHEET NO. SS30 OF SS39 SHEETS													

DISTRICT #: Metro
 PLOT NAME: 031
 PATH & FILENAME: Projects\DM_POS\06\0000\Traffic\Signals\39166 (Wyoming Tr)\PENDING\T39166.dgn
 PLOTTED/REVISED: 12-JUN-2020



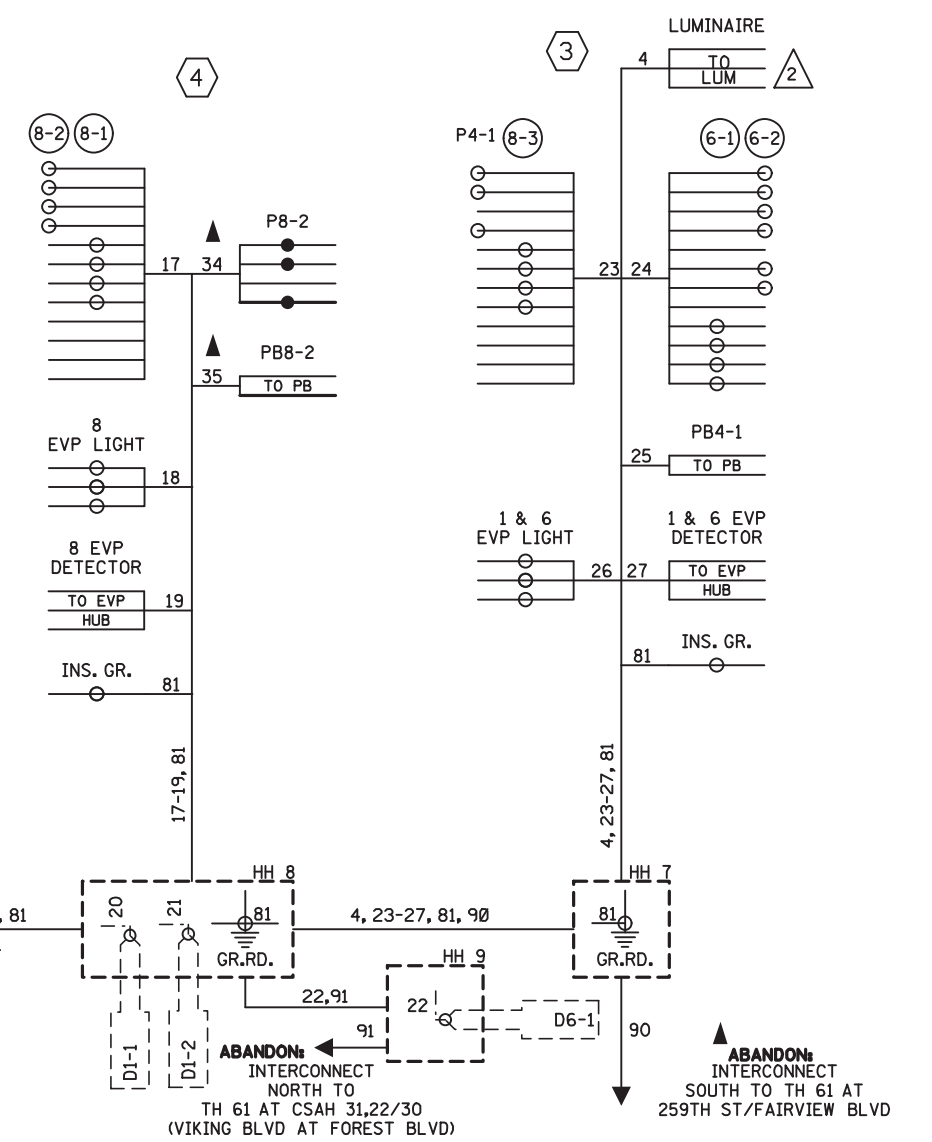
NOTES:
 1. LUMINAIRES ARE METERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES).

CABINET CONTROLLER



ABANDON: INTERCONNECT SOUTH TO TH 61 AT 259TH ST/FAIRVIEW BLVD
ABANDON: INTERCONNECT NORTH TO TH 61 AT CSAH 31,22/30 (VIKING BLVD AT FOREST BLVD)

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



CONDUCTOR COLOR CODE (14 GAUGE)			
TO SIGNAL CABINET		TO DEVICE	
1/C#6 G	R	R	RED
6PR#19	O	O	YEL
COXIAL CABLE (6SM)	BL	BL	GRN
	WH	WH	NEU
	BLK/R	BLK/R	YLA/FYA
	BLK	BLK	GLA
3-1/C#2	R	R	RED/DWK
	WH	WH	YEL/WLK
	BLK	BLK	GRN/SPR
	BLK	BLK	NEU
3-1/C#6	R	R	RED
	WH	WH	YEL
	G	G	GRN
	BLK	BLK	NEU
12/C#14	R	R	RED
	O	O	YEL
	BL	BL	GRN
	WH	WH	NEU
	R/BLK	R/BLK	YLA/FYA
	O/BLK	O/BLK	GLA
	BL/BLK	BL/BLK	
	WH/BLK	WH/BLK	
	BLK	BLK	
	BLK/WH	BLK/WH	
	BLK/R	BLK/R	
	WH/R	WH/R	
	R OR O	R OR O	
	WH OR YEL	WH OR YEL	
	BLK OR BL	BLK OR BL	
	BLK	BLK	
	WH OR CLR	WH OR CLR	
	BLK	BLK	
	WH OR CLR	WH OR CLR	

NOTE: ALL POLE CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

GENERAL NOTES:

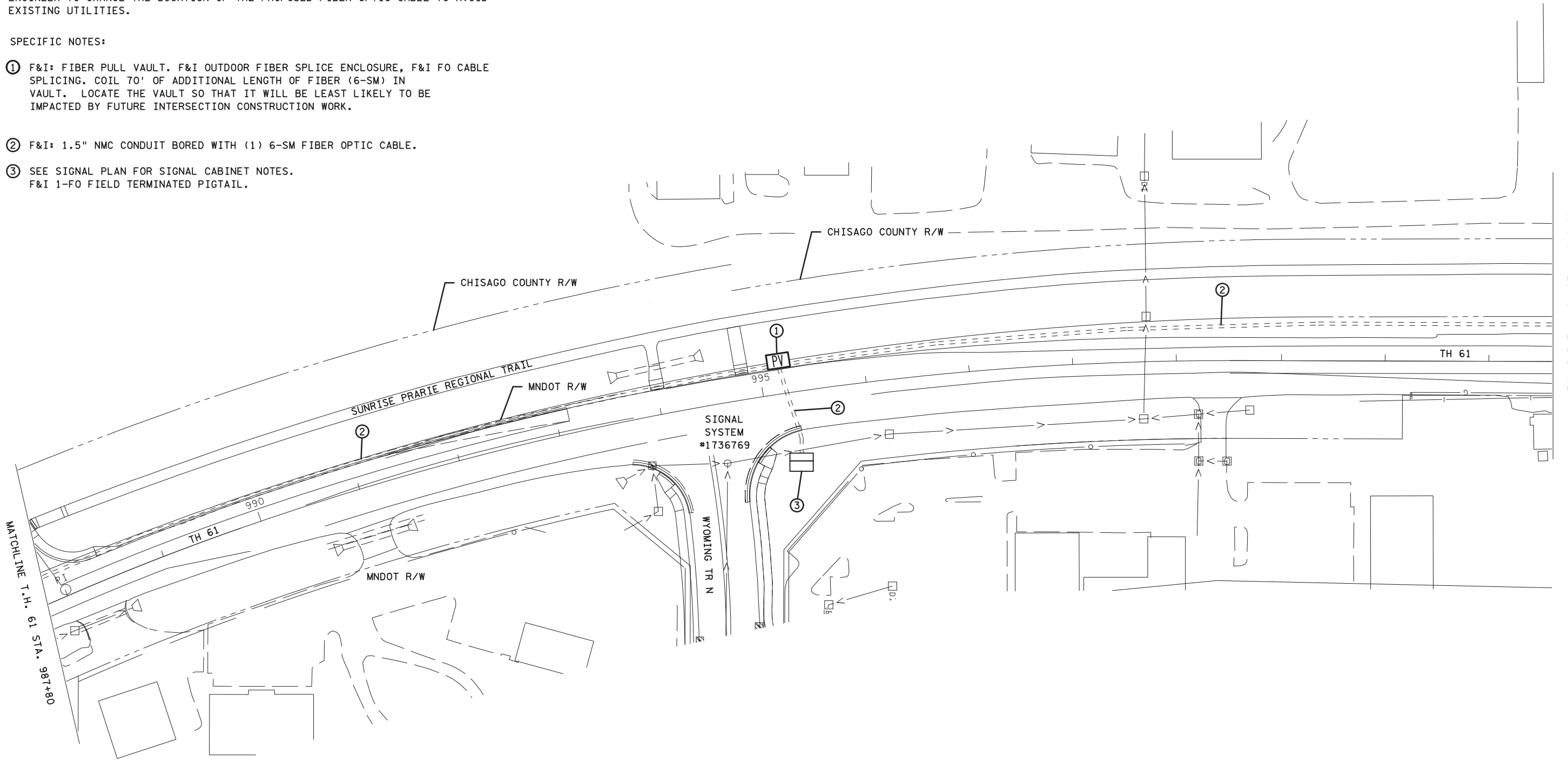
1. CONSTRUCTION OF THE FIBER OPTIC INTERCONNECTION IS PROPOSED (LOCATED) TO NOT IMPACT ANY EXISTING UTILITIES.
2. THE CONTRACTOR SHALL CALL GOPHER STATE ONE CALL FOR UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION.
3. AFTER THE UTILITIES ARE FIELD LOCATED/MARKED THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE AVOIDS THE EXISTING UTILITIES. IF NEEDED, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER TO CHANGE THE LOCATION OF THE PROPOSED FIBER OPTIC CABLE TO AVOID EXISTING UTILITIES.

SPECIFIC NOTES:

- ① F&I: FIBER PULL VAULT. F&I OUTDOOR FIBER SPLICE ENCLOSURE, F&I FO CABLE SPLICING. COIL 70' OF ADDITIONAL LENGTH OF FIBER (6-SM) IN VAULT. LOCATE THE VAULT SO THAT IT WILL BE LEAST LIKELY TO BE IMPACTED BY FUTURE INTERSECTION CONSTRUCTION WORK.
- ② F&I: 1.5" NMC CONDUIT BORED WITH (1) 6-SM FIBER OPTIC CABLE.
- ③ SEE SIGNAL PLAN FOR SIGNAL CABINET NOTES. F&I 1-FO FIELD TERMINATED PIGTAIL.



100
SCALE IN FEET



DISTRICT #: Metro
 PLOT NAME: fiber_plan
 PATH & FILENAME: Projects\DM_R05\06\302\023\Traffic\Signal\fiber_plandgn
 PLOTTED/REVISED: 12-JUN-2020

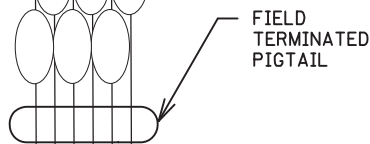
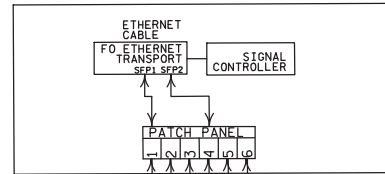
BY	DATE	REVISIONS

TRAFFIC CONTROL INTERCONNECTION
(FIBER OPTIC)

S.A.P. NO. 248-110-003	DRAWN BY: JDC	CKD BY: GAK	DATE:
CERTIFIED BY: <i>Gregory Ken</i>	LIC. NO. 26829	DATE: 5-18-20	
STATE PROJ. NO. 1302-23 (T.H.61)		SHEET NO. SS18 OF SS39 SHEETS	

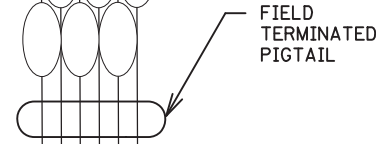
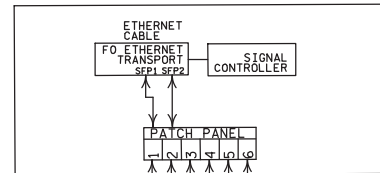
FIBER OPTIC SCHEMATIC (FOR SIGNAL COMMUNICATIONS)

REVISE SIGNAL SYSTEM A
T.H. 61 (FOREST BLVD.N.) AT 257TH ST.
SIGNAL CONTROL
CABINET 1736729



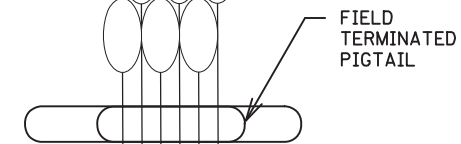
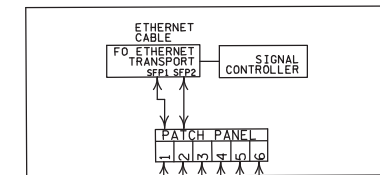
SIG 1736729 6-SM

REVISE SIGNAL SYSTEM B
T.H. 61 (FOREST BLVD.N.) AT 259TH ST./FAIRVIEW BLVD.
SIGNAL CONTROL
CABINET 1736092



SIG 1736092 6-SM

REVISE SIGNAL SYSTEM C
T.H. 61 (FOREST BLVD.N.) AT C.S.A.H. 22 (WYOMING TRAIL)
SIGNAL CONTROL
CABINET 1736769



SIG 1736769 6-SM

TRUNK ID#
61-7

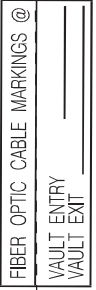
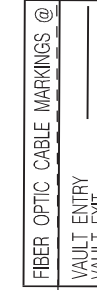
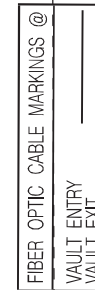
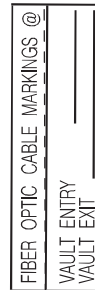
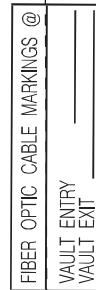
TRUNK ID#
61-6

TRUNK ID#
61-5

PULL VAULT

PULL VAULT

PULL VAULT



DISTRICT #: Metro
 PLOT NAME: 012
 PATH & FILENAME: Projects\DM_POS\06\1302\023\Traffic\Signal\T1302-23.dgn
 PLOTTED/REVISED: 12-JUN-2020

BY	DATE	REVISIONS	SYSTEM ID: XXXXX	T.E. XXXX	S.A.P. NO. 248-110-003	DRAWN BY: JAR	CKD BY: GAK	DATE:	
			METER ADDRESS: 9999 GRAND AVE.		FIBER OPTIC SCHEMATIC TRAFFIC CONTROL SIGNAL SYSTEMS T.H. 61 (FOREST BLVD.) IN WYOMING, CHISAGO COUNTY	 <small>LICENSED PROFESSIONAL ENGINEER</small>		LIC. NO. 26829	
			OLD SYSTEM ID:			DATE: 5-18-20			
					STATE PROJ. NO. 1302-23 (T.H.61)		SHEET NO. SS12 OF SS39 SHEETS		

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

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

3 SB STA 411+93, 33' LT
 PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250W HPS
 ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 ANGLE MOUNT SIGNAL AT 90 DEG
 ANGLE MOUNT CD PED HEAD AT 90 DEG
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASES 1+6)
 APS PB AND SIGN (LT ARROW) (PB4-1)
 R10-12 SIGN (ADJACENT TO 6-2)
 2-TYPE D SIGNS
 3* PVC TO HH 7:
 2-12/C*14
 1-3/C*14 (LUM)
 1-2/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.

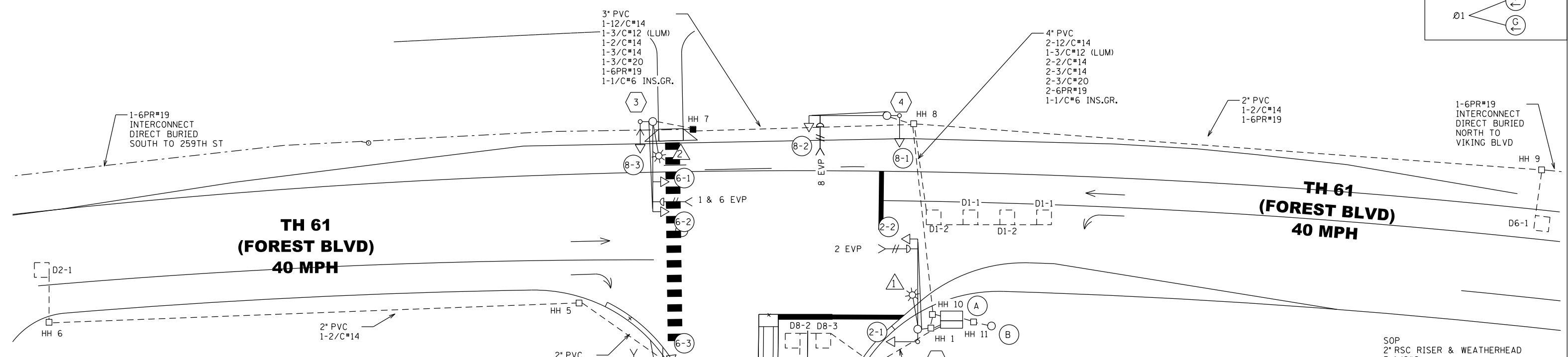
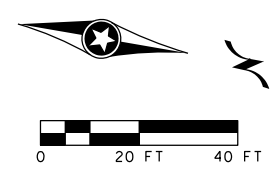
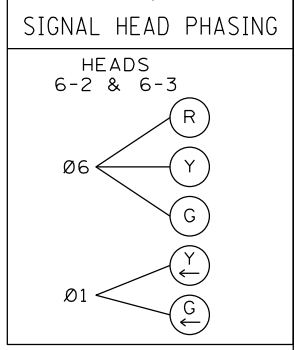
LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1	6x6	250
D6-1	6x6	250
D8-1	6x6	INP
D8-2	6x6	5 & 20
D8-3	6x6	5

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

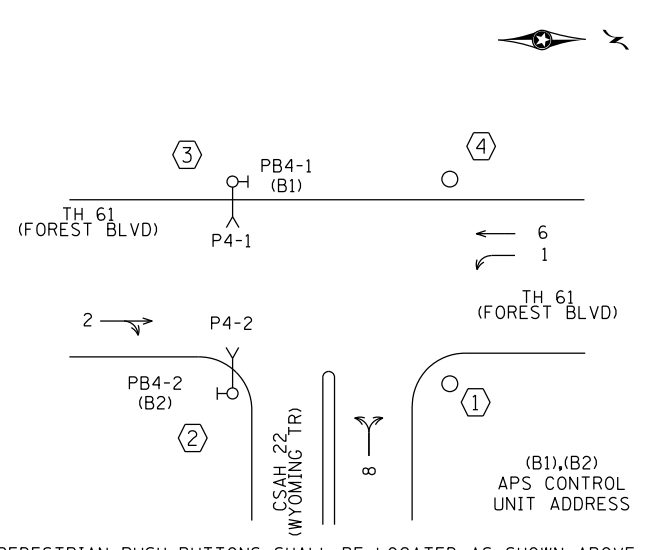
4 SB STA 412+88, 35' LT
 PA90 POLE FOUNDATION
 TYPE PA90-A-30
 ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 ANGLE MOUNT SIGNAL AT 180 DEG
 ONE WAY EVP DETECTOR & CONFIRMATORY LIGHT (PHASE 8)
 R9-3 SIGN (FACING POLE 1)
 2-TYPE D SIGNS
 3* PVC TO HH 8:
 1-12/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.

SIGNAL HEAD CHART					
FACE	R	Y	G	YLTA	GLTA
2-1, 2-1	○	○	○		
6-1	○	○	○		
6-2, 6-3	○	○	○	←	←
8-1, 8-2	○	○	○		

-ALL SIGNAL INDICATIONS ARE 12" LEDS
 -ALL SIGNAL HEADS ARE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



2 NB STA 411+85, 66' RT
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 STRAIGHT MOUNT SIGNAL
 STRAIGHT MOUNT CD PED HEAD
 APS PB AND SIGN (RT ARROW PB4-2)
 R9-3 SIGN (FACING POLE 1)
 3* RSC TO HH 4:
 1-12/C*14
 1-4/C*14
 1-2/C*14

SIGNAL SYSTEM OPERATION

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

SOP
 2* RSC RISER & WEATHERHEAD
 3-1/C*2
 2* RSC TO HH 11:
 3-1/C*2

A EQUIPMENT PAD
 SERVICE CABINET
 CONTROLLER AND CABINET
 4* PVC TO HH 1:
 2-12/C*14
 1-4/C*14
 5-2/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.
 3* PVC STUBBED
 OUT - CAPPED BOTH ENDS
 3/4" PVC STUBBED OUT
 CAPPED FOR TELEPHONE LINE
 2* PVC TO SERVICE CABINET
 2-1/C*6
 1-1/C*6 INS. GR.

4* PVC TO HH 10:
 2-12/C*14
 2-2/C*14
 2-3/C*14
 2-3/C*20
 2-6PR*19
 1-1/C*6 INS. GR.

2* PVC TO SERVICE CABINET (COMMS)
 SERVICE CABINET TO HH 11:
 2* PVC
 3-1/C*2
 SERVICE CABINET TO HH 1:
 2* PVC
 2-3/C*14 (LUM)
 HH 2 TO HH 1:
 2* PVC
 1-3/C*14 (LUM)

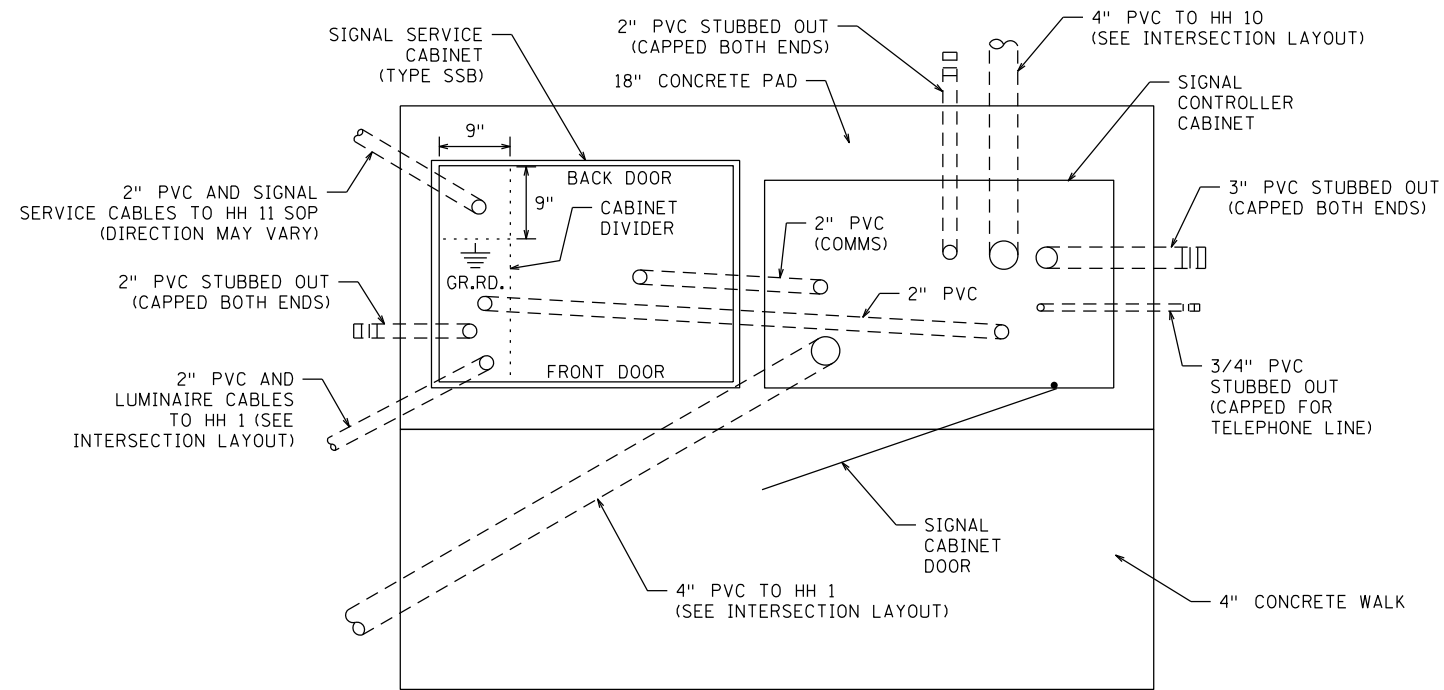
BY	DATE	REVISIONS	SYSTEM ID: 39166	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
EJA	05-23-11	AS-BUILT OF SP 1302-20	METER ADDRESS:		CERTIFIED BY: _____	LIC. NO. _____	DATE: _____	
EJA	06-03-16	PLAN UPDATES	MASTER ID:	T.E.	STATE PROJ. NO. (T.H.61)	SHEET NO. 1 OF 3 SHEETS		

INTERSECTION LAYOUT
 TH 61 AT CSAH 22 (WYOMING TRAIL)
 IN WYOMING, CHISAGO COUNTY

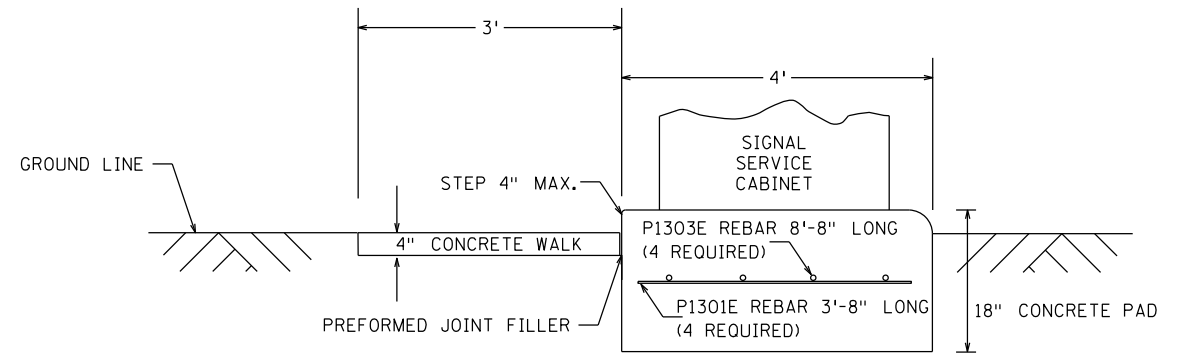
TYPICAL PAD WITH CONTROLLER CABINET AND SERVICE CABINET

SEE INTERSECTION LAYOUT FOR CABLE INFORMATION (NOT TO SCALE)

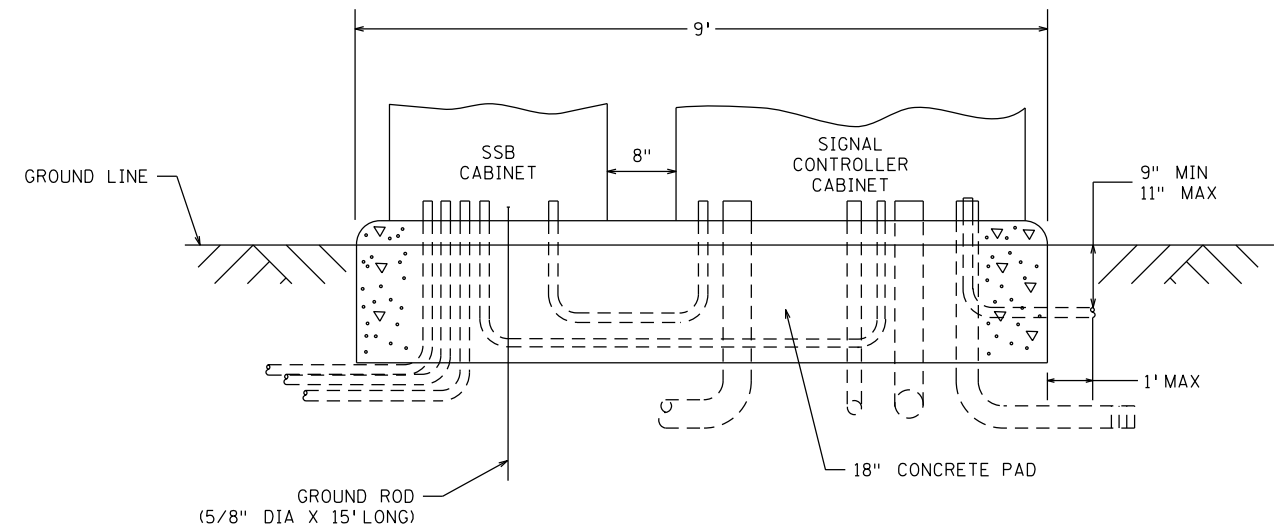
PLAN VIEW



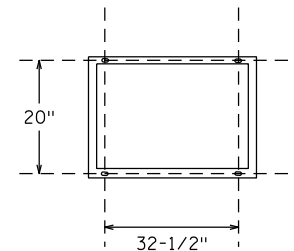
SIDE VIEW



FRONT VIEW

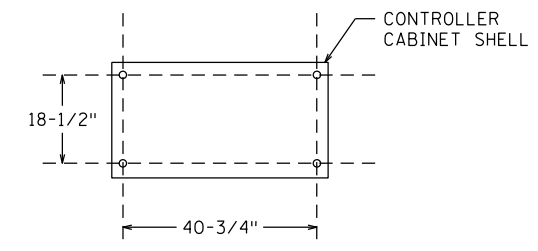


S.S.B. SERVICE CABINET BOLT PATTERN



DIMENSION SHOWN ARE CENTER ROD TO CENTER ROD

CONTROLLER CABINET TYPE "P" & "R" BOLT PATTERN



DIMENSION SHOWN ARE CENTER ROD TO CENTER ROD

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

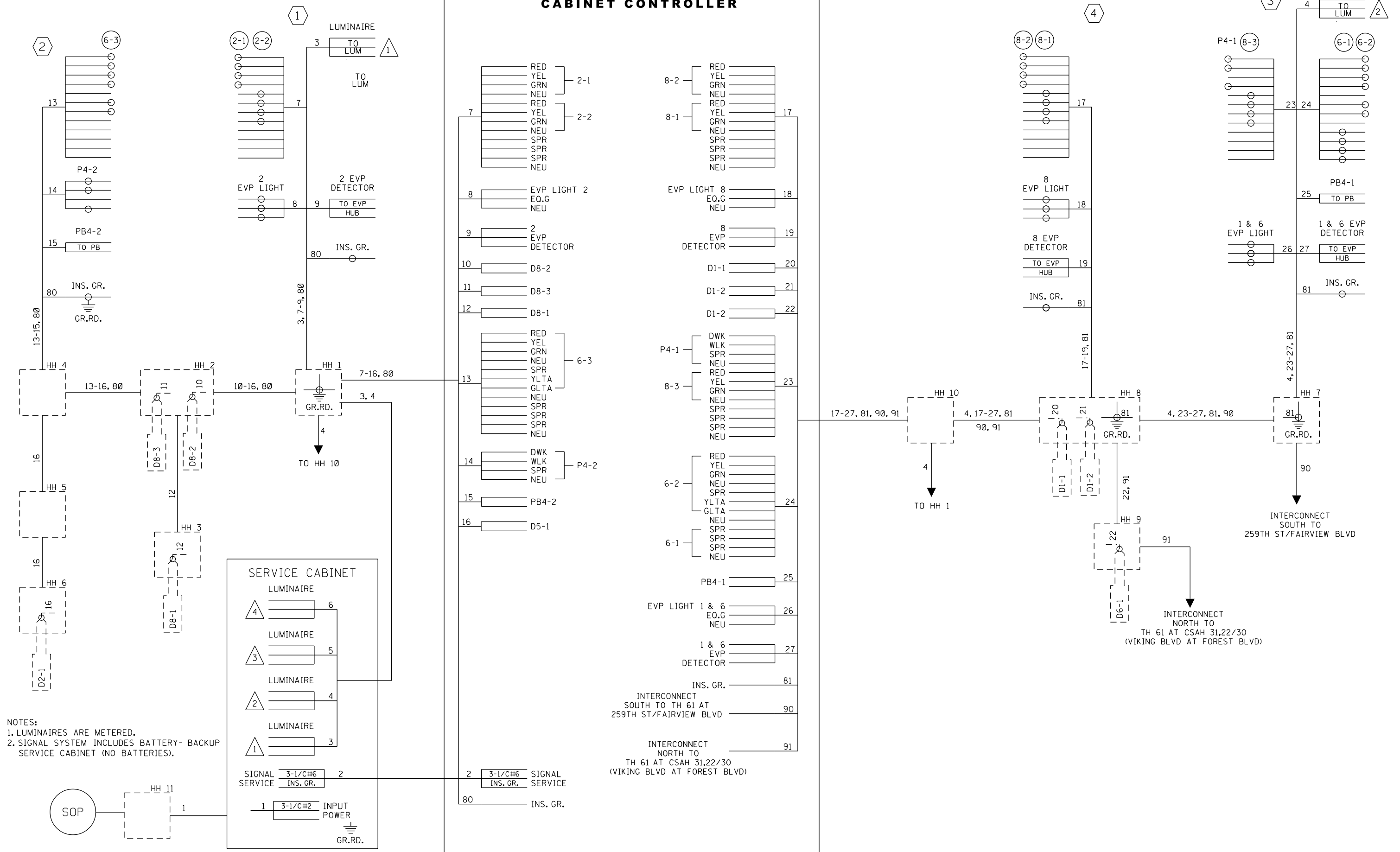
DISTRICT #: \$DISTRICT\$
 IPLOT NAME: \$PLOT\$NAME\$
 PATH & FILENAME: \$PATH\$FILENAME\$

BY	DATE	REVISIONS	SYSTEM ID: 39166	T.E.	EQUIPMENT PAD LAYOUT TH 61 AT CSAH 22 (WYOMING TRAIL) IN WYOMING, CHISAGO COUNTY	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:	
EJA	05-23-11	AS-BUILT OF SP 1302-20	METER ADDRESS:	T.E.		CERTIFIED BY: _____	LIC. NO. _____	DATE: _____		
EJA	06-03-16	PLAN UPDATES	MASTER ID:	T.E.		STATE PROJ.NO. (T.H.61)	SHEET NO. 2 OF 3 SHEETS			

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

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

CABINET CONTROLLER



NOTES:
 1. LUMINAIRES ARE METERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY- BACKUP SERVICE CABINET (NO BATTERIES).

BY	DATE	REVISIONS
EJA	05-23-11	AS-BUILT OF SP 1302-20
EJA	06-03-16	PLAN UPDATES

SYSTEM ID: 39166 T.E.
 METER ADDRESS:
 MASTER ID: T.E.

FIELD WIRING DIAGAM
 TH 61 AT CSAH 22 (WYOMING TRAIL)
 IN WYOMING, CHISAGO COUNTY

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

3 SB STA 411+93, 33' LT
 PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 1-ANGLE MOUNT SIGNALS AT 90 & DEG
 1-ANGLE MOUNT C.D., PED IND AT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1 & 6)
 LUMINAIRE-250W HPS
 1-APS PB AND SIGN (LT ARROW PB4-1)
 1-SIGN R10-12 (36 X 48) ADJACENT TO HEAD 6-2
 1-SIGN D-3 CSAH 22
 1-SIGN D-6 WYOMING TR
 3" CONDUIT TO HH 7:
 2-12/C*14
 1-3/C*14 (LUM)
 1-2/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.

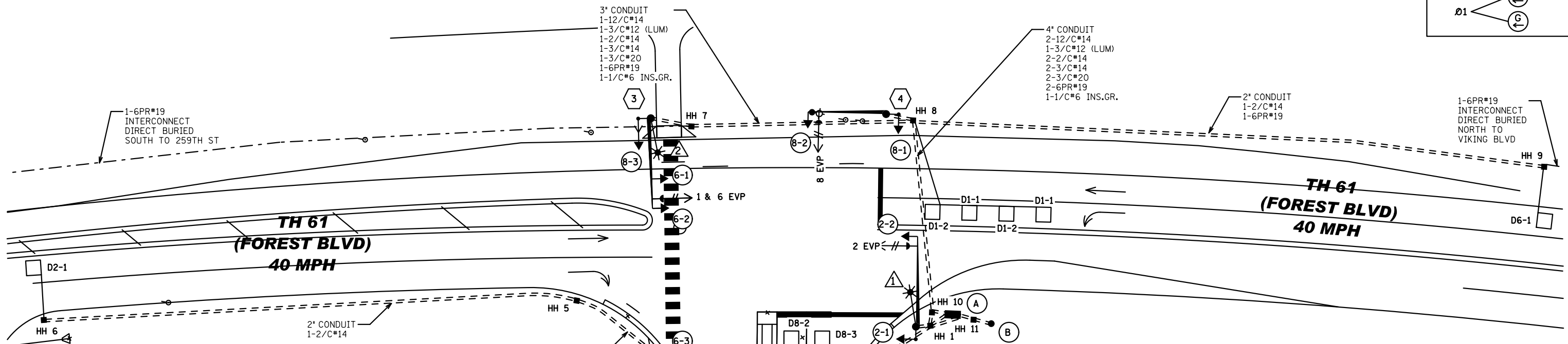
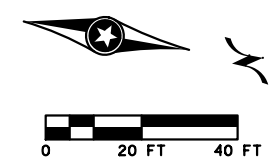
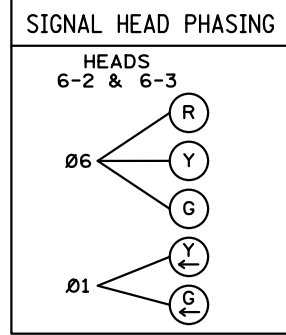
LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1	2-6x6	20 & 50
D1-2	2-6x6	5 & 35
D2-1	6x6	250
D6-1	6x6	250
D8-1	6x6	INP
D8-2	6x6	5 & 20
D8-3	6x6	5

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

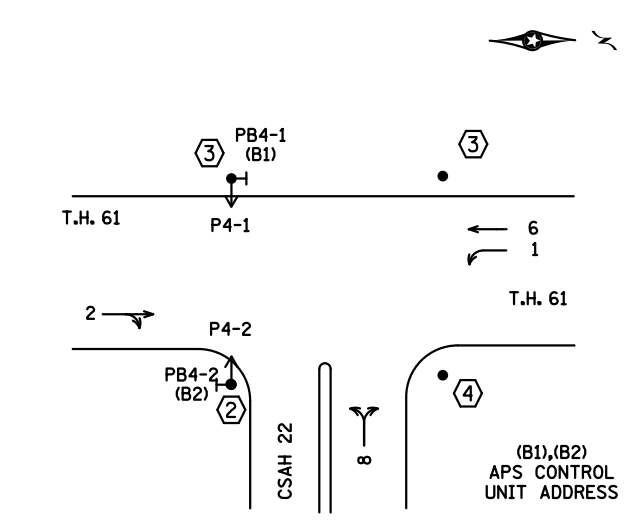
4 SB STA 412+88, 35' LT
 PA90 POLE FOUNDATION
 TYPE PA90-A-30-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11'
 1-ANGLE MOUNT SIGNALS AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 8)
 1-SIGN (R9-3a) FACING POLE 1
 1-SIGN D-1 TH 61
 1-SIGN D-4 FOREST BLVD
 3" CONDUIT TO HH 8:
 1-12/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.

SIGNAL FACE CHART					
FACE	R	Y	G	YLTA	GLTA
2-1, 2-1	●	●	●		
6-1	●	●	●		
6-2, 6-3	●	●	●	←	←
8-1, 8-2	●	●	●		

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



2 NB STA 411+85, 66' RT
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE & BASE
 1-ANGLE MOUNT C.D., PED IND AT 90 DEG
 1-APS PB AND SIGN (RT ARROW PB4-2)
 1-SIGN (R9-3a) FACING POLE 1
 3" RSC TO HH 4:
 1-12/C*14
 1-4/C*14
 1-2/C*14

SIGNAL SYSTEM OPERATION

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

A EQUIPMENT PAD - SEE DETAIL
 SERVICE CABINET
 CONTROLLER AND CABINET
 4" CONDUIT TO HH 1:
 2-12/C*14
 1-4/C*14
 5-2/C*14
 1-3/C*14
 1-3/C*20
 1-1/C*6 INS. GR.
 3" CONDUIT STUBBED OUT - CAPPED BOTH ENDS
 3/4" CONDUIT STUBBED OUT CAPPED FOR TELEPHONE LINE
 2" CONDUIT TO SERVICE CABINET
 2-1/C*6
 1-1/C*6 INS. GR.
 2" CONDUIT TO SERVICE CABINET (COMMS)
 SERVICE CABINET TO HH 11:
 2" CONDUIT
 3-1/C*2
 SERVICE CABINET TO HH 1:
 2" CONDUIT
 2-3/C*14 (LUM)
 HH 2 TO HH 1:
 2" CONDUIT
 1-3/C*14 (LUM)

B SOP
 2" RSC RISER & WEATHERHEAD
 3-1/C*2
 2" RSC TO HH 11:
 3-1/C*2

SYSTEM ID NO: 39166
 MASTER ID NO: 39090
 T.E. NO: 5031

PLOTTED/REVISED: 5/23/2011

DISTRICT #: METRO
 IPLOT NAME: T39166_sgl
 PATH & FILENAME: IP_PWP\dl40452\T39166_sgl.dgn

Date Printed: 02/26/10
 WSB Filenamer: SDD

NO.	DATE	BY	CHK	REVISIONS
05-23-11	SJK	EJA		AS-BUILT PLAN

Design By: MAS
 Plan By: MAS
 Checked By: SDD
 Approved By: SDD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CERTIFIED BY: SEAN DELMORE, PE, PTOE
 LICENSED PROFESSIONAL ENGINEER - SEAN DELMORE, PE, PTOE
 DATE: 02/26/10 LIC. NO: 40945

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 INFRASTRUCTURE ENGINEERING PLANNING CONSTRUCTION

T.H. 61 Improvements
 Chisago County, Minnesota

CHISAGO COUNTY, MINNESOTA
 TH 61 @ CSAH 22/WYOMING TR-INT LAYOUT- SYSTEM "B"
SIGNAL PLAN
 S.P. 1302-21 (TH 61) / S.A.P. 13-622-008 CTB / S.A.P. 248-020-001

SHEET
SP08
 OF
TOT
 SHEETS

