

PLOTTED/REVISED: 6-APR-2023

DISTRICT #: Metro
PLOT NAME: Sheet_24
FILENAME: Projects\DM_Proj\08500000\TrafficStandis2202\F_JCT_95_BENCH_ST\1735936\Pending\T21868_sgl.dgn

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	STATUS
D1-1, D5-1	2-6x6	20 & 50	F & I
D1-2, D5-2	2-6x6	5 & 35	F & I
D1-3	2-6x6	85 & 100	F & I
D2-1	2-6x6	190	F & I
D2-2	2-6x6	125	F & I
D4-1, D8-1	6x6	40	F & I
D4-2, D8-2, D8-3	2-6x6	5 & 20	F & I
D4-3	6x6	5	F & I
D6-1	6x6	250	F & I
D6-2	6x6	150	F & I

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

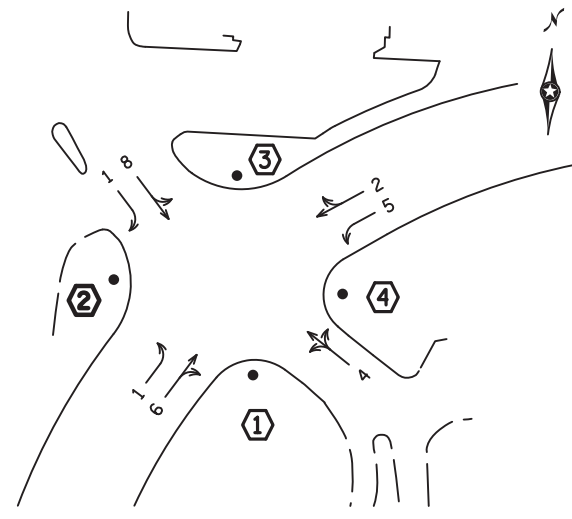
②

PA90 POLE FOUNDATION
TYPE PA90-A-35
INSTALL: 1-X-400 EXTENSION (STATE FURNISHED) (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID AND GROUND ROD)
INSTALL: 1-PTZ VIDEO CAMERA C30538 (STATE FURNISHED)
2-ONE WAY SIGNALS (2-2) (2-3) AT 0' & 11'
1-ONE WAY SIGNAL (6-5) AT 11'
2-TYPE 20A AT 90 AND 180 DEG
1-R10-12 SIGN ADJACENT TO HEAD (2-3)
1-R9-3 SIGN (NO PEDS) FACING POLE 1
"USE UNDERPASS TO PARK" SIGN
OPPOSITE R9-3 SIGN
EXTEND INTO HH 7:
3" RSC
2-12/C #12
2-3/C #12
1-3/C #20
F&I: 1-COM CABLE (CAT 5E) (PTZ)

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASE 1 AND 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- PHASE 1 GRA INDICATIONS SHALL OPERATE CONCURRENTLY WITH PHASE 1 GLA INDICATIONS, PERMITTING OVERLAPPING EXCLUSIVE RIGHT AND LEFT TURN VEHICLE MOVEMENTS.
- WHEN THE SIGNAL SYSTEM IS FLASHING ALL RED, THE AWF FLASHER WILL CONTINUOUSLY FLASH YELLOW.

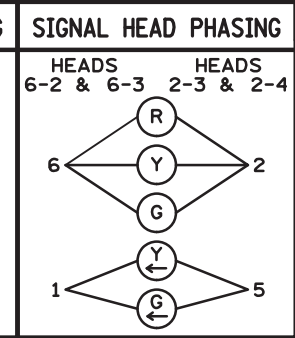
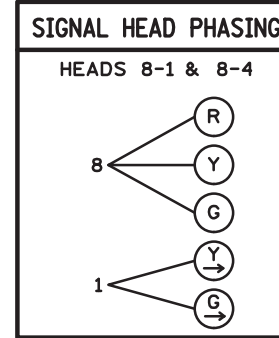
CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

③

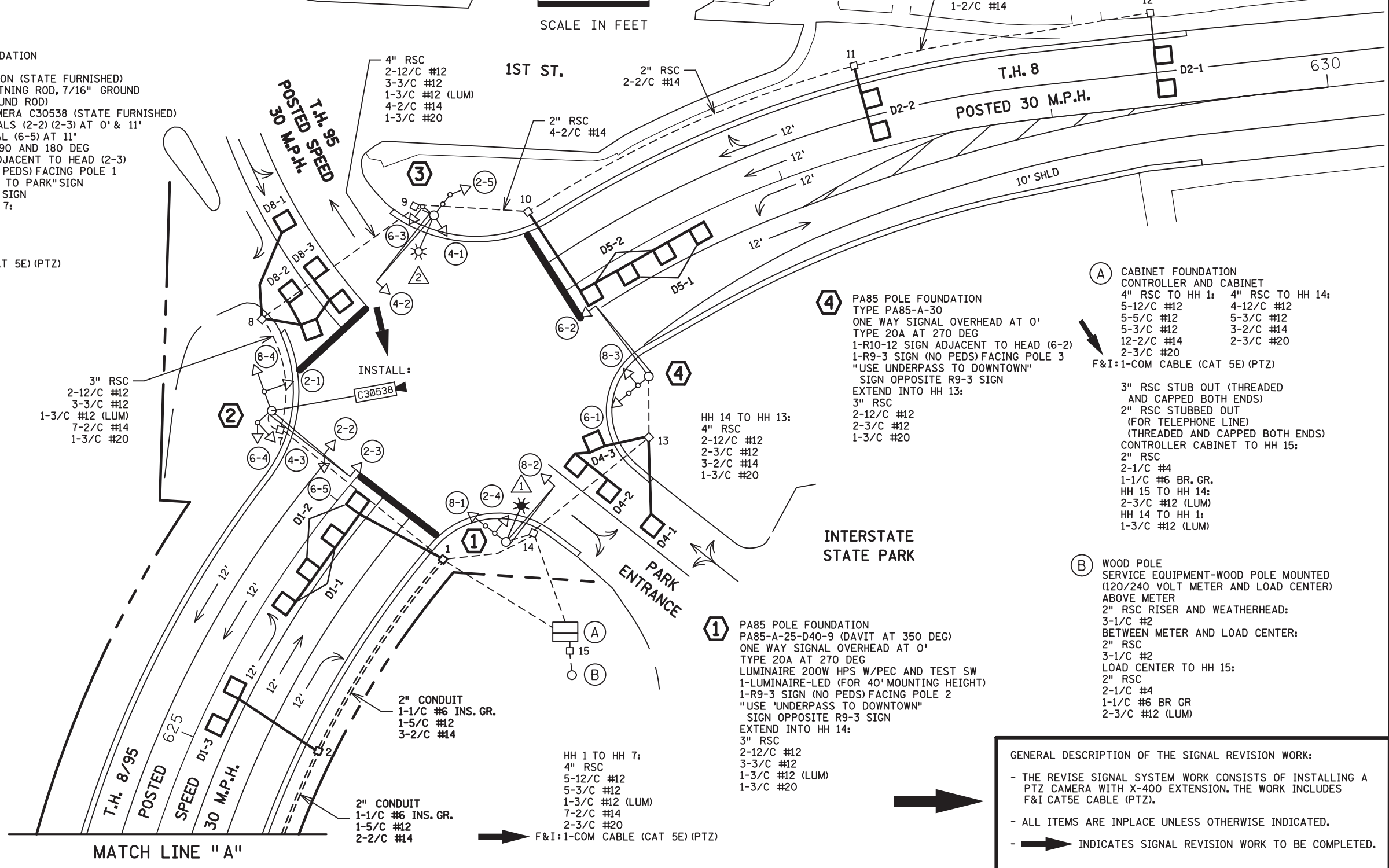
PA85 POLE FOUNDATION
PA85-A-30-D40-9 (DAVIT AT 350 DEG)
ONE WAY SIGNAL OVERHEAD AT 0'
TYPE 10A AT 90 DEG
TYPE 20A AT 180 DEG
LUMINAIRE 200W HPS W/PEC AND TEST SW
1-R9-3 SIGN (NO PEDS) FACING POLE 4
USE "UNDERPASS TO PARK" SIGN
OPPOSITE R9-3 SIGN
EXTEND INTO HH 9:
3" RSC
2-12/C #12
3-3/C #12
1-3/C #12 (LUM)
1-3/C #20



SIGNAL HEAD CHART

FACE	R	Y	G	Y	G
2-1, 2-2, 2-5	○	○	○		
2-3, 2-4	○	○	○	←	←
4-1, 4-2, 4-3	○	○	○		
6-1, 6-4, 6-5	○	○	○		
6-2, 6-3	○	○	○	←	←
8-1, 8-4	○	○	○	→	→
8-2, 8-3	○	○	○		

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



④ CABINET FOUNDATION
CONTROLLER AND CABINET
4" RSC TO HH 1: 4" RSC TO HH 14:
5-12/C #12 4-12/C #12
5-5/C #12 5-3/C #12
5-3/C #12 3-2/C #14
12-2/C #14 2-3/C #20
F&I: 1-COM CABLE (CAT 5E) (PTZ)
3" RSC STUB OUT (THREADED AND CAPPED BOTH ENDS)
2" RSC STUBBED OUT (FOR TELEPHONE LINE) (THREADED AND CAPPED BOTH ENDS)
CONTROLLER CABINET TO HH 15:
2" RSC
2-1/C #4
1-1/C #6 BR. GR.
HH 15 TO HH 14:
2-3/C #12 (LUM)
HH 14 TO HH 1:
1-3/C #12 (LUM)

⑤ WOOD POLE
SERVICE EQUIPMENT-WOOD POLE MOUNTED (120/240 VOLT METER AND LOAD CENTER) ABOVE METER
2" RSC RISER AND WEATHERHEAD:
3-1/C #2
BETWEEN METER AND LOAD CENTER:
2" RSC
3-1/C #2
LOAD CENTER TO HH 15:
2" RSC
2-1/C #4
1-1/C #6 BR GR
2-3/C #12 (LUM)

GENERAL DESCRIPTION OF THE SIGNAL REVISION WORK:

- THE REVISE SIGNAL SYSTEM WORK CONSISTS OF INSTALLING A PTZ CAMERA WITH X-400 EXTENSION. THE WORK INCLUDES F&I CAT5E CABLE (PTZ).
- ALL ITEMS ARE INPLACE UNLESS OTHERWISE INDICATED.
- → INDICATES SIGNAL REVISION WORK TO BE COMPLETED.

BY	DATE	REVISIONS

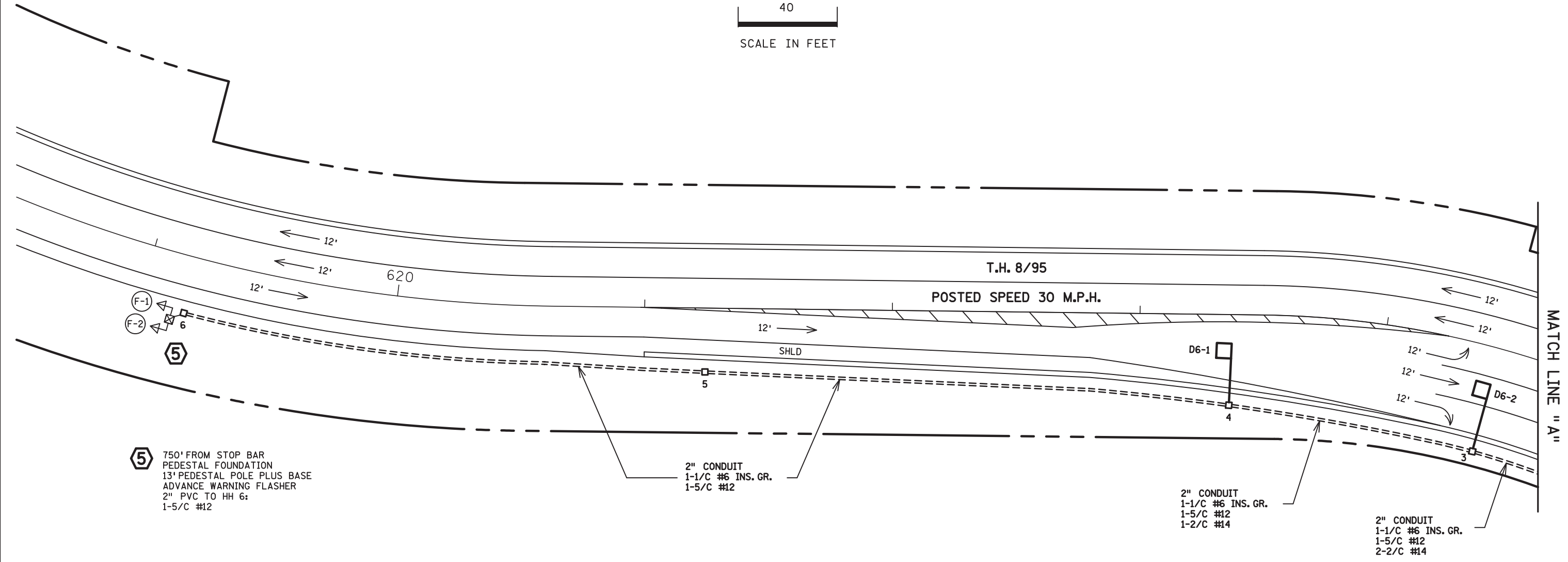
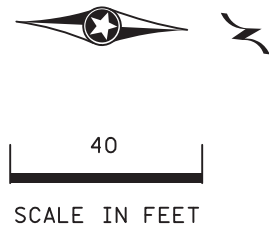
SYSTEM ID: 1735936 T.E. 92822
METER ADDRESS: 21 LAKE BLVD.
OLD SYSTEM ID: 21868

**REVISE SIGNAL SYSTEM "F"
INTERSECTION LAYOUT
T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
IN TAYLORS FALLS, CHISAGO COUNTY**

S.A.P. NO. _____
DRAWN BY: HRL CKD BY: CDB DATE: 03/31/23
CERTIFIED BY: *Gregory Kern* LIC. NO. 26829 DATE: 04/04/23
STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 24 OF 121 SHEETS

PLOTTED/REVISED: 6-APR-2023

DISTRICT #: Metro
 IPLOT NAME: Sheet_25
 FILENAME: Projects\DM_PROS\008\0000\Traffic\Signal\2201_E_JCT_95 (BENCH ST)\735936\PENDING\T21868_sgl.dgn



5 750' FROM STOP BAR
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 ADVANCE WARNING FLASHER
 2" PVC TO HH 6:
 1-5/C #12

2" CONDUIT
 1-1/C #6 INS. GR.
 1-5/C #12

2" CONDUIT
 1-1/C #6 INS. GR.
 1-5/C #12
 1-2/C #14

2" CONDUIT
 1-1/C #6 INS. GR.
 1-5/C #12
 2-2/C #14

NOTE: THERE IS NOT ANY SIGNAL REVISION WORK ON THIS SHEET.

BY	DATE	REVISIONS

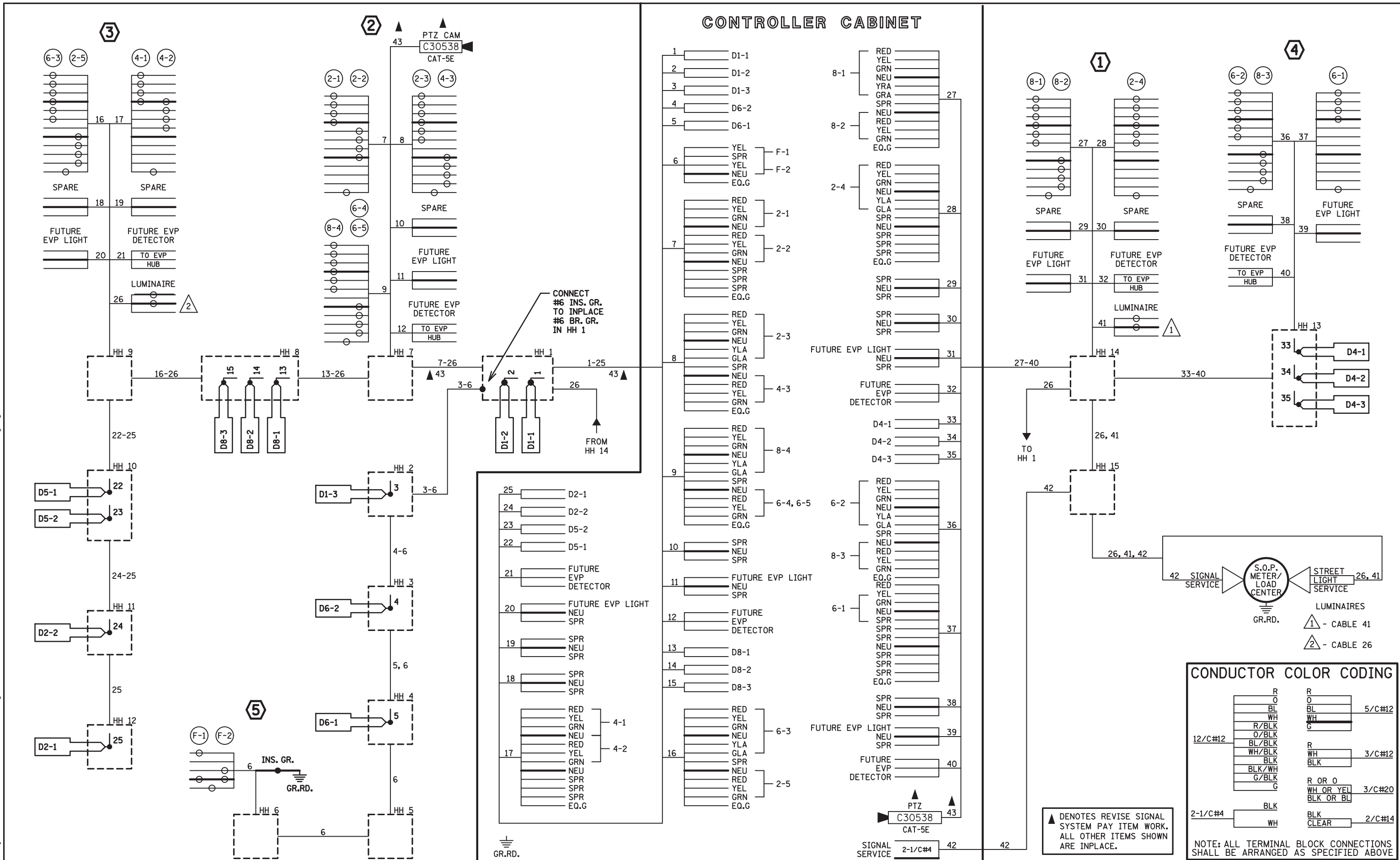
SYSTEM ID: 1735936 T.E. 92822
 METER ADDRESS: 21 LAKE BLVD.
 OLD SYSTEM ID: 21868

**REVISE SIGNAL SYSTEM "F"
 MATCH LINES LAYOUT
 T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
 IN TAYLORS FALLS, CHISAGO COUNTY**

S.A.P. NO. _____ DRAWN BY: HRL CKD BY: CDB DATE: 03/31/23
 CERTIFIED BY *Gregory Kern* LIC. NO. 26829 DATE: 04/04/23
 STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 25 OF 121 SHEETS

PLOTTED/REVISED: 6-APR-2023

DISTRICT #: Metro
PLOT NAME: Sheet_26
FILENAME: Projects\DM_FOS\008\0000\Traffic\Signals\2201_E_JCT_95 (BENCH ST)\735936\PENDING\T21868_sgl.dgn



BY	DATE	REVISIONS

SYSTEM ID: 1735936 T.E. 92822
 METER ADDRESS: 21 LAKE BLVD.
 OLD SYSTEM ID: 21868

**REVISE SIGNAL SYSTEM "F"
 FIELD WIRING DIAGRAM
 T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
 IN TAYLORS FALLS, CHISAGO COUNTY**

S.A.P. NO. _____
 DRAWN BY: HRL CKD BY: CDB DATE: 03/31/23
 CERTIFIED BY: *Gregory Kern* LIC. NO. 26829 DATE: 04/04/23
 STATE PROJ. NO. 8825-1025 (T.H. 999) SHEET NO. 26 OF 121 SHEETS

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#4	BLK WH
5/C#12	R O BL WH
3/C#12	R WH BLK
3/C#20	R OR O WH OR YEL BLK OR BL
2/C#14	BLK CLEAR

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

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

PLOTTED/REVISED: 8/3/2015

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	STATUS
D1-1, D5-1	2-6x6	20 & 50	F & I
D1-2, D5-2	2-6x6	5 & 35	F & I
D1-3	2-6x6	85 & 100	F & I
D2-1	2-6x6	190	F & I
D2-2	2-6x6	125	F & I
D4-1, D8-1	6x6	40	F & I
D4-2, D8-2, D8-3	2-6x6	5 & 20	F & I
D4-3	6x6	5	F & I
D6-1	6x6	250	F & I
D6-2	6x6	150	F & I

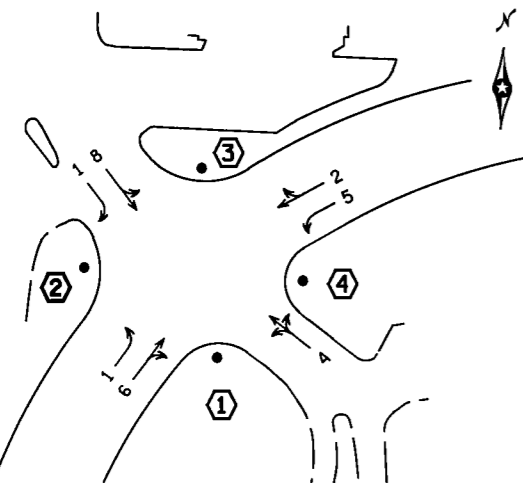
-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
-LOCATION: DISTANCE FROM CROSSWALK/ STOP BAR IN FEET

② PA90 POLE FOUNDATION
TYPE PA90-A-35
2-ONE WAY SIGNALS (2-2) (2-3) AT 0' & 11'
1-ONE WAY SIGNAL (6-5) AT 11'
2-TYPE 20A AT 90 AND 180 DEG
1-R10-12 SIGN ADJACENT TO HEAD (2-3)
1-R9-3 SIGN (NO PEDS) FACING POLE 1
"USE UNDERPASS TO PARK" SIGN
OPPOSITE R9-3 SIGN
EXTEND INTO HH 7:
3" RSC
3-12/C #12
2-3/C #12
1-3/C #20

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASE 1 AND 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- PHASE 1 GRA INDICATIONS SHALL OPERATE CONCURRENTLY WITH PHASE 1 GLA INDICATIONS, PERMITTING OVERLAPPING EXCLUSIVE RIGHT AND LEFT TURN VEHICLE MOVEMENTS.
- WHEN THE SIGNAL SYSTEM IS FLASHING ALL RED, THE AWF FLASHER WILL CONTINUOUSLY FLASH YELLOW.

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

③ PA85 POLE FOUNDATION
PA85-A-30-D40-9 (DAVIT AT 350 DEG)
ONE WAY SIGNAL OVERHEAD AT 0'
TYPE 10A AT 90 DEG
TYPE 20A AT 180 DEG
LUMINAIRE 200W HPS W/PEC AND TEST SW
1-R9-3 SIGN (NO PEDS) FACING POLE 4
USE "UNDERPASS TO PARK" SIGN
OPPOSITE R9-3 SIGN
EXTEND INTO HH 9:
3" RSC
2-12/C #12
3-3/C #12
1-3/C #12 (LUM)
1-3/C #20

SCALE IN FEET

SIGNAL HEAD PHASING		SIGNAL HEAD PHASING		SIGNAL HEAD CHART								
HEADS 8-1 & 8-4		HEADS 6-2 & 6-3		HEADS 2-3 & 2-4		FACE		R	Y	G	Y	G
						2-1, 2-2, 2-5	0	0	0	0	0	0
						2-3, 2-4	0	0	0	0	0	0
						4-1, 4-2, 4-3	0	0	0	0	0	0
						6-1, 6-4, 6-5	0	0	0	0	0	0
						6-2, 6-3	0	0	0	0	0	0
						8-1, 8-4	0	0	0	0	0	0
						8-2, 8-3	0	0	0	0	0	0

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

④ PA85 POLE FOUNDATION
TYPE PA85-A-30
ONE WAY SIGNAL OVERHEAD AT 0'
TYPE 20A AT 270 DEG
1-R10-12 SIGN ADJACENT TO HEAD (6-2)
1-R9-3 SIGN (NO PEDS) FACING POLE 3
"USE UNDERPASS TO DOWNTOWN"
SIGN OPPOSITE R9-3 SIGN
EXTEND INTO HH 13:
3" RSC
2-12/C #12
2-3/C #12
1-3/C #20

⑤ CABINET FOUNDATION
CONTROLLER AND CABINET
4" RSC TO HH 1: 4" RSC TO HH 14:
5-12/C #12 4-12/C #12
5-5/C #12 5-3/C #12
5-3/C #12 3-2/C #14
12-2/C #14 2-3/C #20

3" RSC STUB OUT (THREADED AND CAPPED BOTH ENDS)
2" RSC STUBBED OUT (FOR TELEPHONE LINE) (THREADED AND CAPPED BOTH ENDS)
CONTROLLER CABINET TO HH 15:
2" RSC
2-1/C #4
1-1/C #6 BR. GR.
HH 15 TO HH 14:
2-3/C #12 (LUM)
HH 14 TO HH 1:
1-3/C #12 (LUM)

⑥ WOOD POLE SERVICE EQUIPMENT-WOOD POLE MOUNTED (120/240 VOLT METER AND LOAD CENTER) ABOVE METER
2" RSC RISER AND WEATHERHEAD:
3-1/C #2
BETWEEN METER AND LOAD CENTER:
2" RSC
3-1/C #2
LOAD CENTER TO HH 15:
2" RSC
2-1/C #4
1-1/C #6 BR GR
2-3/C #12 (LUM)

- NOTES:**
1. ALL ITEMS ARE INPLACE UNLESS NOTED.
 2. THE EXACT LOCATION OF LOOP DETECTORS SHALL BE VERIFIED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 3. REPLACE ALL LOOP DETECTORS WITH PVC LOOP DETECTORS.
 4. PULLBACK CABLES FROM HH 6 TO HH 1, REPLACE CONDUIT, AND REINSTALL CABLES.
 5. ADJUST HH'S 1, 2, 3, 4, 5, AND 6.

DISTRICT #: METRO
PLOT NAME: layout
PATH & FILENAME: IP_PWP-d07988AVT21868.sgl.dgn

BY	DATE	REVISIONS

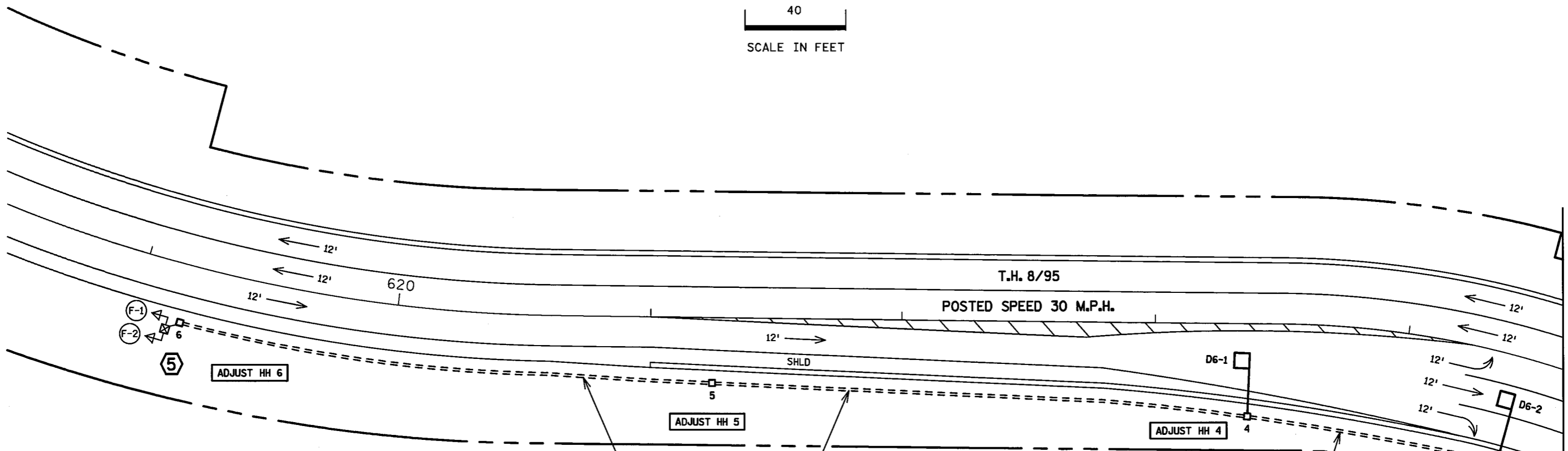
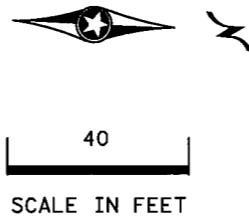
SYSTEM ID: 21868 T.E.
METER ADDRESS: 21 LAKE BLVD.
MASTER ID: T.E.

INTERSECTION LAYOUT
REVISE SIGNAL SYSTEM
T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
IN TAYLORS FALLS, CHISAGO COUNTY

S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 08-03-15
CERTIFIED BY: <i>Michael P. Lubensky</i> LICENSED PROFESSIONAL ENGINEER	LIC. NO. 19863	DATE: 08-04-15	
STATE PROJ. NO. 1301-110 (T.H. 8)		SHEET NO. SS2 OF SS4 SHEETS	

PLOTTED/REVISED: 8/3/2015

DISTRICT #: METRO
 IPLOT NAME: match lines
 PATH & FILENAME: IP_PWP-d0779888AT21868_sol.dgn



5 750' FROM STOP BAR
 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 ADVANCE WARNING FLASHER
 2" PVC TO HH 6:
 1-5/C #12

PULLBACK: 1-5/C #12
 TO HH 1
 REMOVE: 2" RSC
 F & I: 2" CONDUIT
 1-1/C #6 INS. GR.
 INSTALL: 1-5/C #12

PULLBACK: 1-5/C #12
 TO HH 1
 1-2/C #14
 REMOVE: 2" RSC
 F & I: 2" CONDUIT
 1-1/C #6 INS. GR.
 INSTALL: 1-5/C #12
 1-2/C #14

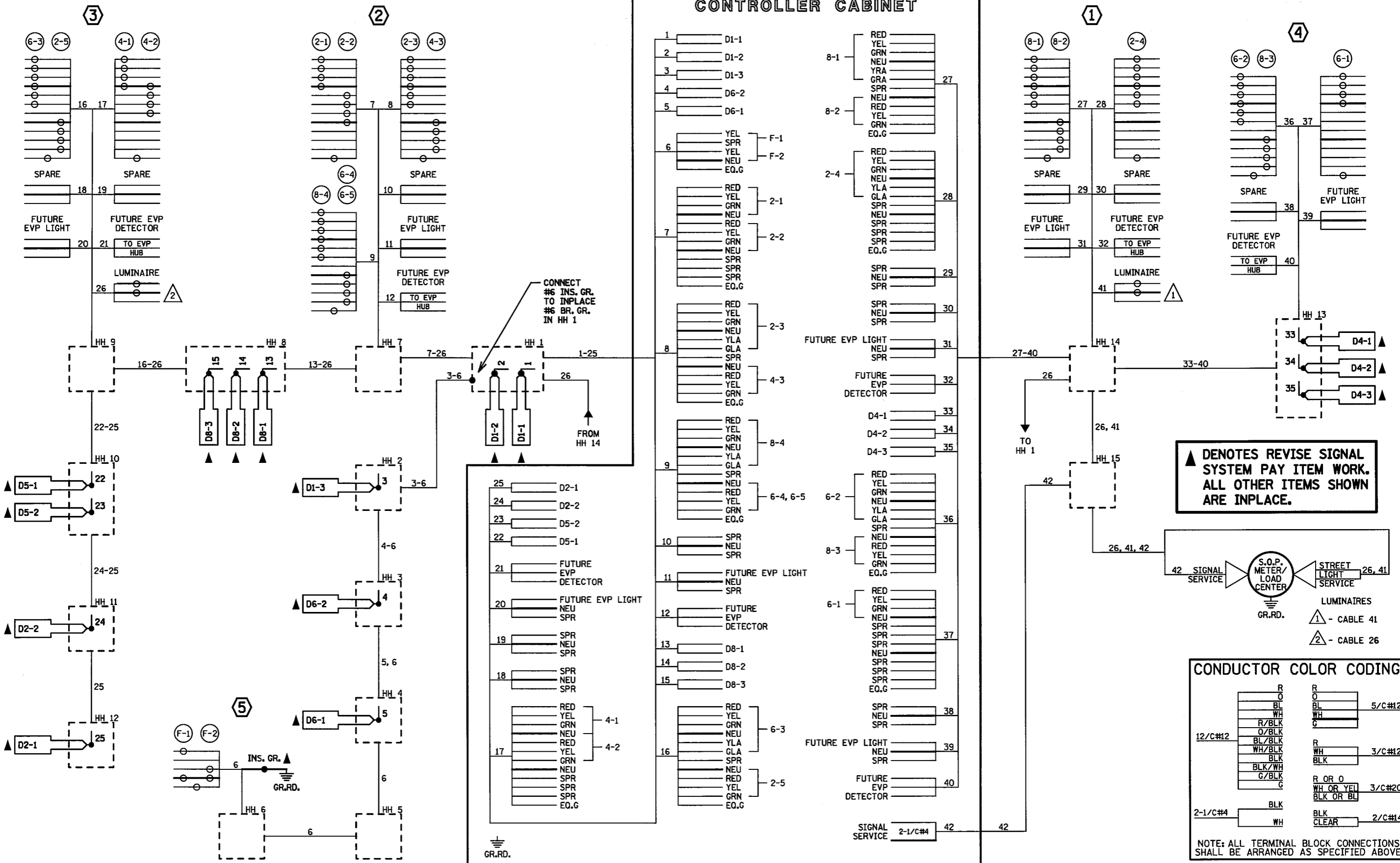
ADJUST HH 3
 PULLBACK: 1-5/C #12
 2-2/C #14
 TO HH 1
 REMOVE: 2" RSC
 F & I: 2" CONDUIT
 1-1/C #6 INS. GR.
 INSTALL: 1-5/C #12
 2-2/C #14

BY	DATE	REVISIONS	SYSTEM ID: 21868	T.E.	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 08-03-15
			METER ADDRESS: 21 LAKE BLVD. <td></td> <td>CERTIFIED BY: <i>Michael P. Lubinsky</i></td> <td>LIC. NO. 19863</td> <td>DATE: 08-04-15</td> <td></td>		CERTIFIED BY: <i>Michael P. Lubinsky</i>	LIC. NO. 19863	DATE: 08-04-15	
			MASTER ID:	T.E.	STATE PROJ. NO. 1301-110 (T.H.8)		SHEET NO. SS3 OF SS4 SHEETS	
MATCH LINES LAYOUT REVISE SIGNAL SYSTEM T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.) IN TAYLORS FALLS, CHISAGO COUNTY								

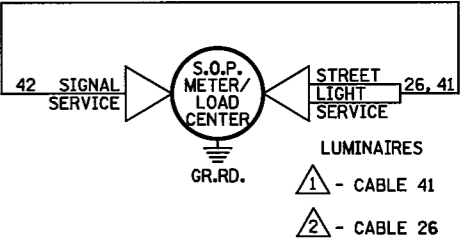
PLOTTED/REVISED: 8/3/2015

DISTRICT #: METRO
 IPLOT NAME: wiring
 PATH & FILENAME: IP_PWP\dot7988AT\21868_sgl.dgn

CONTROLLER CABINET



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



CONDUCTOR COLOR CODING

12/C#12	R O BL WH R/BLK O/BLK BL/BLK WH/BLK BLK BLK/WH G/BLK G	R O BL WH R WH BLK R OR O WH OR YEL BLK OR BL	5/C#12 3/C#12 3/C#20 2/C#14
2-1/C#4	BLK WH	BLK CLEAR	2/C#14

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

BY	DATE	REVISIONS

SYSTEM ID: 21868 T.E.
 METER ADDRESS: 21 LAKE BLVD.
 MASTER ID: T.E.

FIELD WIRING DIAGRAM
 REVISE SIGNAL SYSTEM
 T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
 IN TAYLORS FALLS, CHISAGO COUNTY

S.A.P. NO. _____
 DRAWN BY: GDS CKD BY: EJA DATE: 08-03-15
 CERTIFIED BY: *Michael P. Lubinsky* LIC. NO. 19863 DATE: 08-04-15
 STATE PROJ. NO. 1301-110 (T.H. 8) SHEET NO. SS4 OF SS4 SHEETS

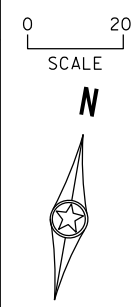
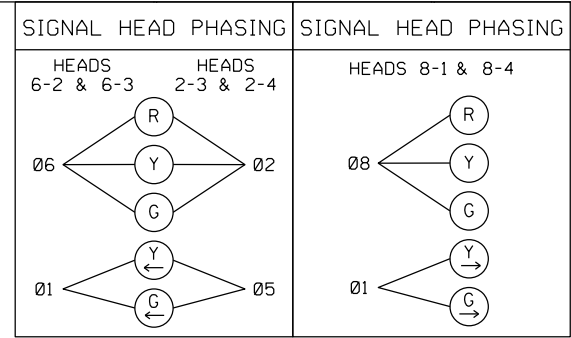
PROJECTNAME

3-19-15: CORRECTED LUMINAIRE LOCATIONS EJA

TAYLORS FALLS DOWNTOWN

(FIRST STREET)
C.S.A.H. 20

③ PA85 POLE FOUNDATION
 PA85-A-30-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE 200W HPS W/PEC & TEST SW
 ONE WAY SIGNAL OVERHEAD AT 0'
 TYPE 10A AT 90 DEG
 TYPE 20A AT 180 DEG
 R9-3 SIGN (FACING POLE 4)
 USE "UNDERPASS TO PARK" SIGN
 OPPOSITE R9-3 SIGN
 EXTEND INTO HH 9:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #12 (LUM)
 1-3/C #20

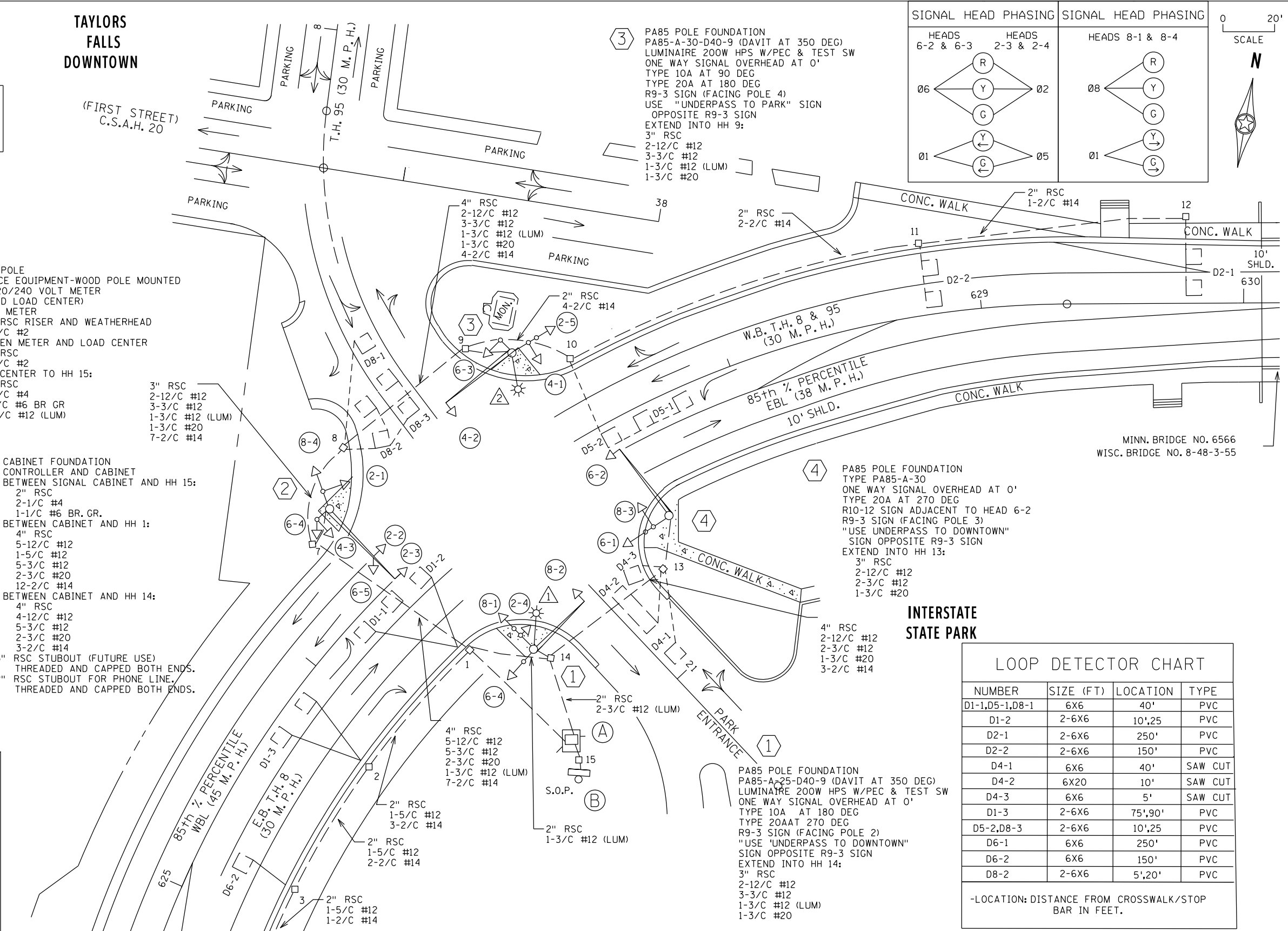
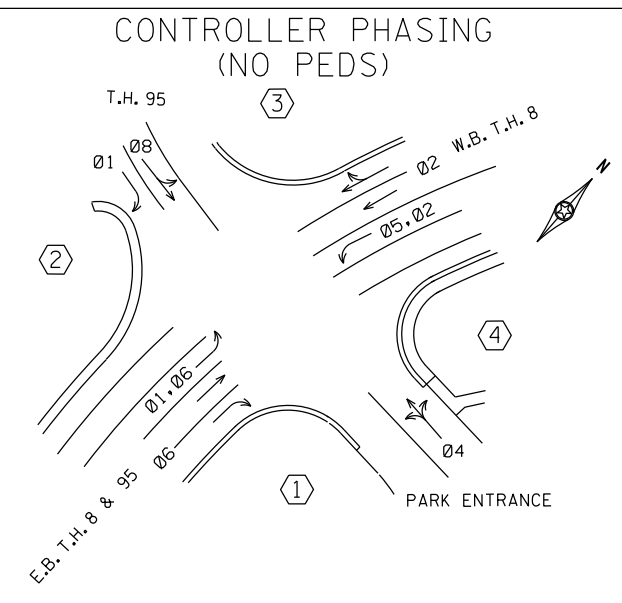


② PA90 POLE FOUNDATION
 TYPE PA90-A-35
 2-ONE WAY SIGNALS (2-2 & 2-3) AT 0' & 11'
 1-ONE WAY SIGNAL (6-5) AT 11'
 2-TYPE 20A AT 90 & 180 DEG
 R10-12 SIGN ADJACENT TO SIGNAL HEAD 2-3
 R9-3 SIGN (FACING POLE 1)
 "USE UNDERPASS TO PARK" SIGN
 OPPOSITE R9-3 SIGN
 EXTEND INTO HH 7:
 3" RSC
 3-12/C #12
 2-3/C #12
 1-3/C #20

① WOOD POLE SERVICE EQUIPMENT-WOOD POLE MOUNTED (120/240 VOLT METER AND LOAD CENTER) ABOVE METER
 2" RSC RISER AND WEATHERHEAD
 3-1/C #2
 BETWEEN METER AND LOAD CENTER
 2" RSC
 3-1/C #2
 LOAD CENTER TO HH 15:
 2" RSC
 2-1/C #4
 1-1/C #6 BR GR
 2-3/C #12 (LUM)

④ CABINET FOUNDATION CONTROLLER AND CABINET BETWEEN SIGNAL CABINET AND HH 15:
 2" RSC
 2-1/C #4
 1-1/C #6 BR GR.
 BETWEEN CABINET AND HH 1:
 4" RSC
 5-12/C #12
 1-5/C #12
 5-3/C #12
 2-3/C #20
 12-2/C #14
 BETWEEN CABINET AND HH 14:
 4" RSC
 4-12/C #12
 5-3/C #12
 2-3/C #20
 3-2/C #14
 3" RSC STUBOUT (FUTURE USE) THREADED AND CAPPED BOTH ENDS.
 2" RSC STUBOUT FOR PHONE LINE. THREADED AND CAPPED BOTH ENDS.

SIGNAL HEAD CHART						
FACE NO.	ALL INDICATIONS ARE 12" LEDS					
	R	Y	G	R	Y	G
2-1, 2-2, 2-5	○	○	○			
2-3, 2-4	○	○	○		←	←
4-1, 4-2, 4-3	○	○	○			
6-1, 6-4	○	○	○			
6-2, 6-3	○	○	○		←	←
6-3, 6-4	○	○	○			
8-2, 8-3	○	○	○			
8-1, 8-4	○	○	○		→	→



INTERSTATE STATE PARK

LOOP DETECTOR CHART			
NUMBER	SIZE (FT)	LOCATION	TYPE
D1-1, D5-1, D8-1	6X6	40'	PVC
D1-2	2-6X6	10', 25'	PVC
D2-1	2-6X6	250'	PVC
D2-2	2-6X6	150'	PVC
D4-1	6X6	40'	SAW CUT
D4-2	6X20	10'	SAW CUT
D4-3	6X6	5'	SAW CUT
D1-3	2-6X6	75', 90'	PVC
D5-2, D8-3	2-6X6	10', 25'	PVC
D6-1	6X6	250'	PVC
D6-2	6X6	150'	PVC
D8-2	2-6X6	5', 20'	PVC

-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET.

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASE 1 AND PHASE 5 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- PHASE 1 GR TA INDICATIONS SHALL OPERATE CONCURRENTLY WITH PHASE 1 GL TA INDICATIONS, PERMITTING OVERLAPPING EXCLUSIVE RIGHT AND LEFT TURN VEHICLE MOVEMENTS.
- WHEN THE SIGNAL SYSTEM IS FLASHING ALL RED, THE AWF FLASHER WILL CONTINUOUSLY FLASH YELLOW.

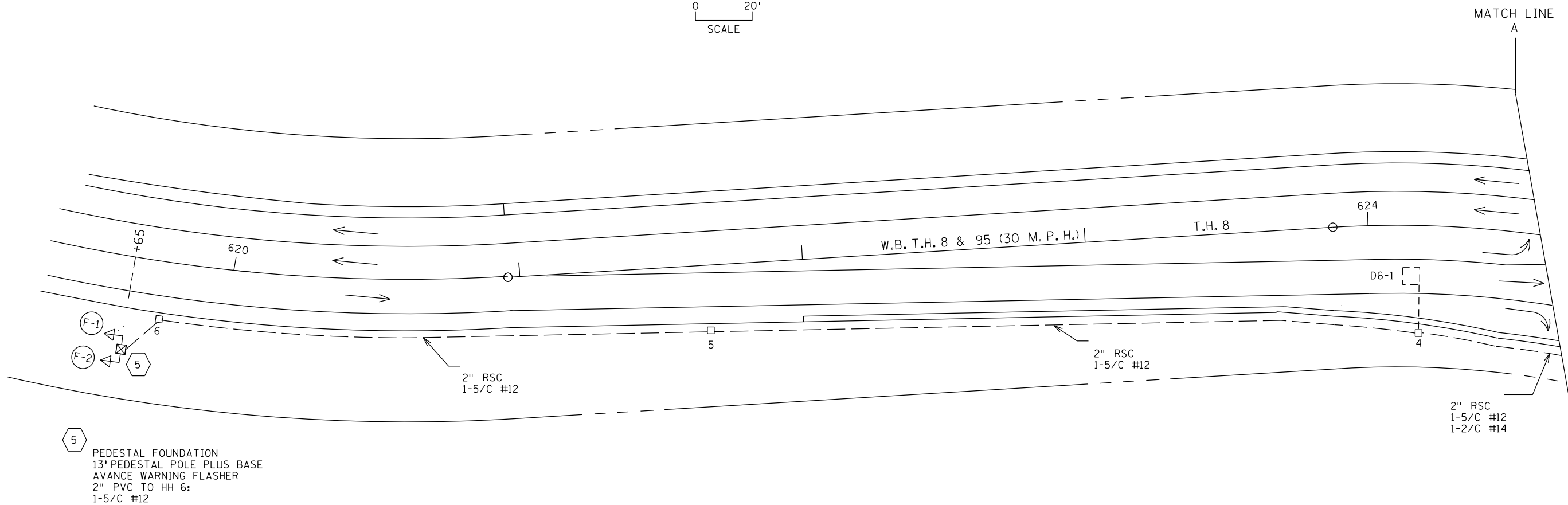
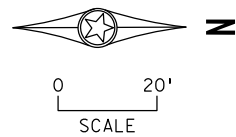
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CHECKED: MPG DATE: 5-29-02	CHECKED: EJA DATE: 8-31-11	CHECKED: EJA DATE: 7-2-14	CHECKED: EJA DATE: 3-19-15
SYSTEM I.D. : 21868			
METER ADDRESS: 21 LAKE BLVD.			
STATE AID PROJECT:			
CERTIFIED BY _____ LIC. NO. _____ DATE _____			
State Proj. No. _____			

INTERSECTION LAYOUT

T.H. _____ T.H. 8 _____ AT E. JCT. T.H. 95 (BENCH ST.)
 IN TAYLORS FALLS, CHISAGO COUNTY

FILENAME: FILENAME

PLOTTED: DATE AND TIME



5 PEDESTAL FOUNDATION
 13' PEDESTAL POLE PLUS BASE
 AVANCE WARNING FLASHER
 2" PVC TO HH 6:
 1-5/C #12

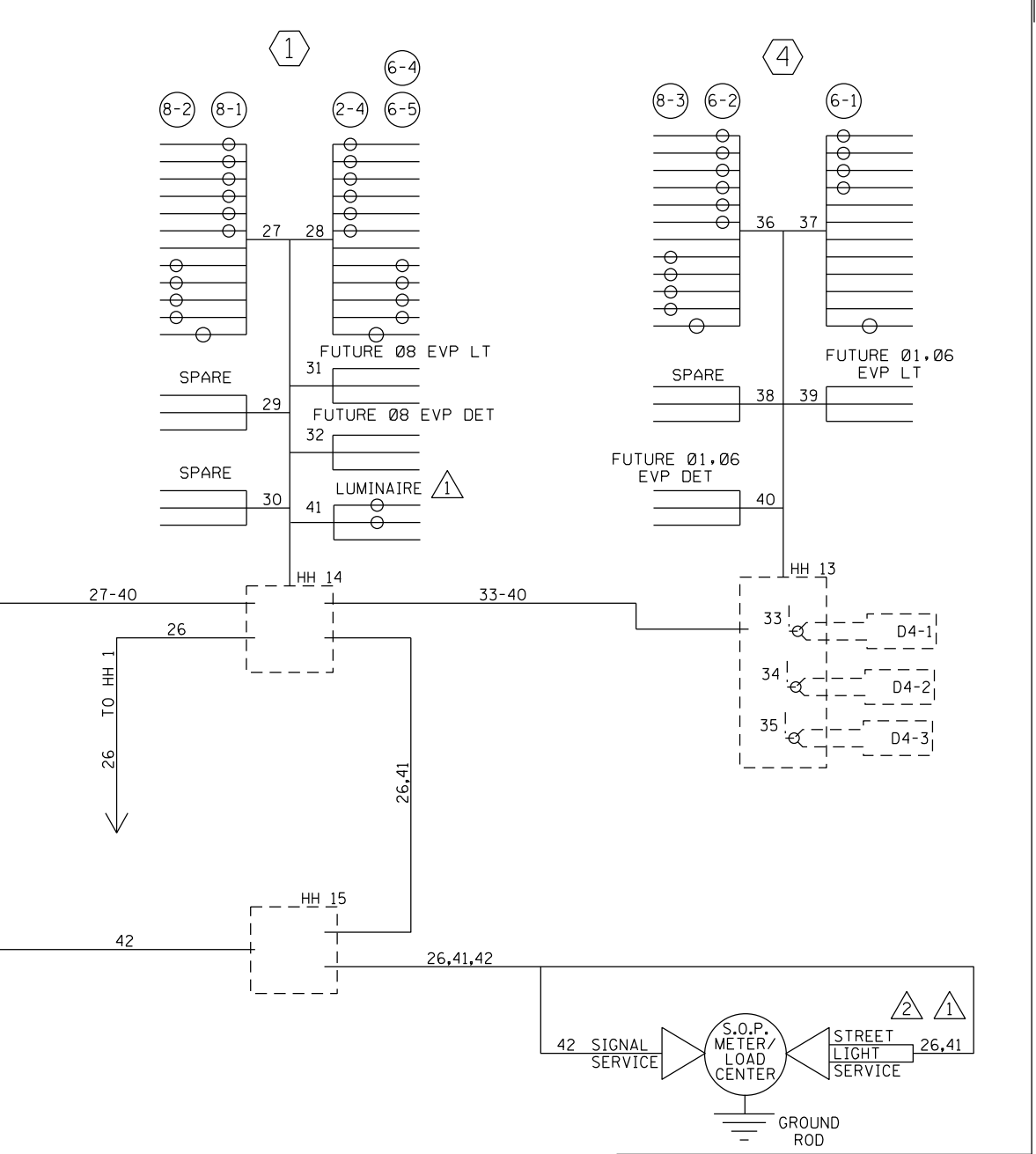
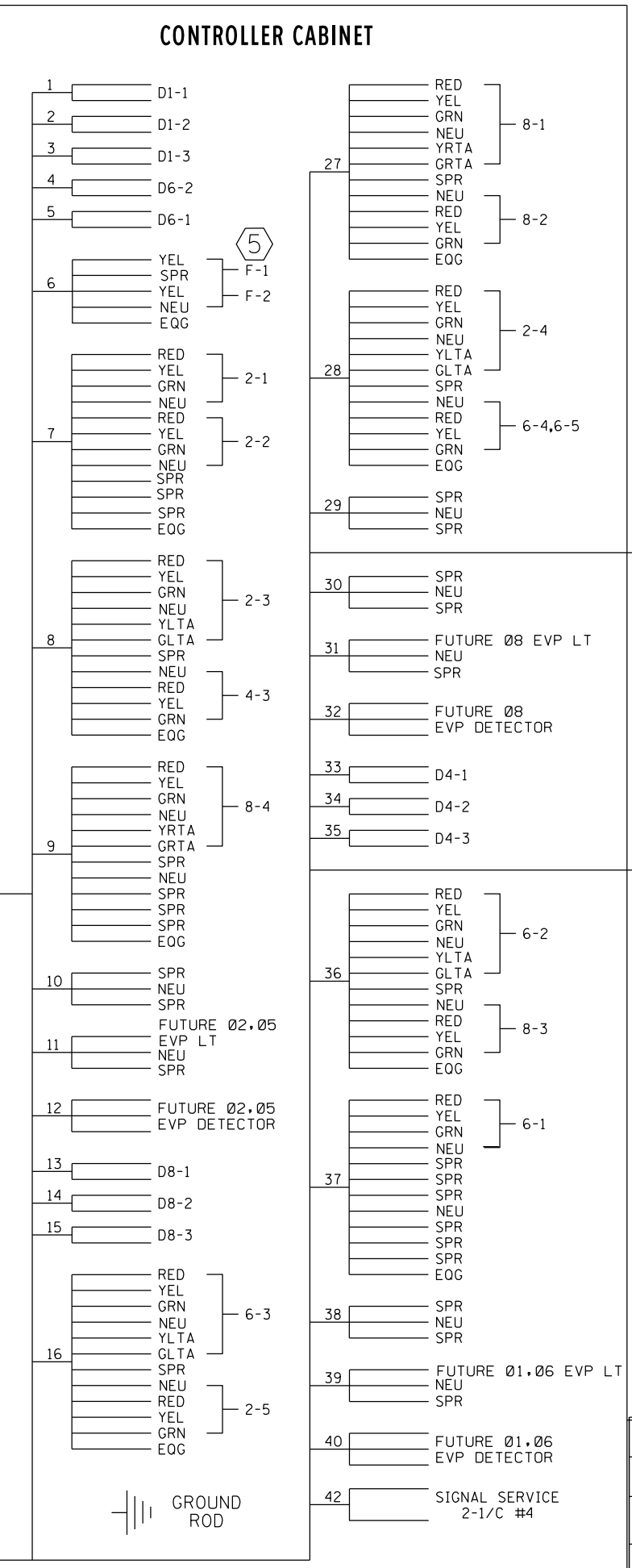
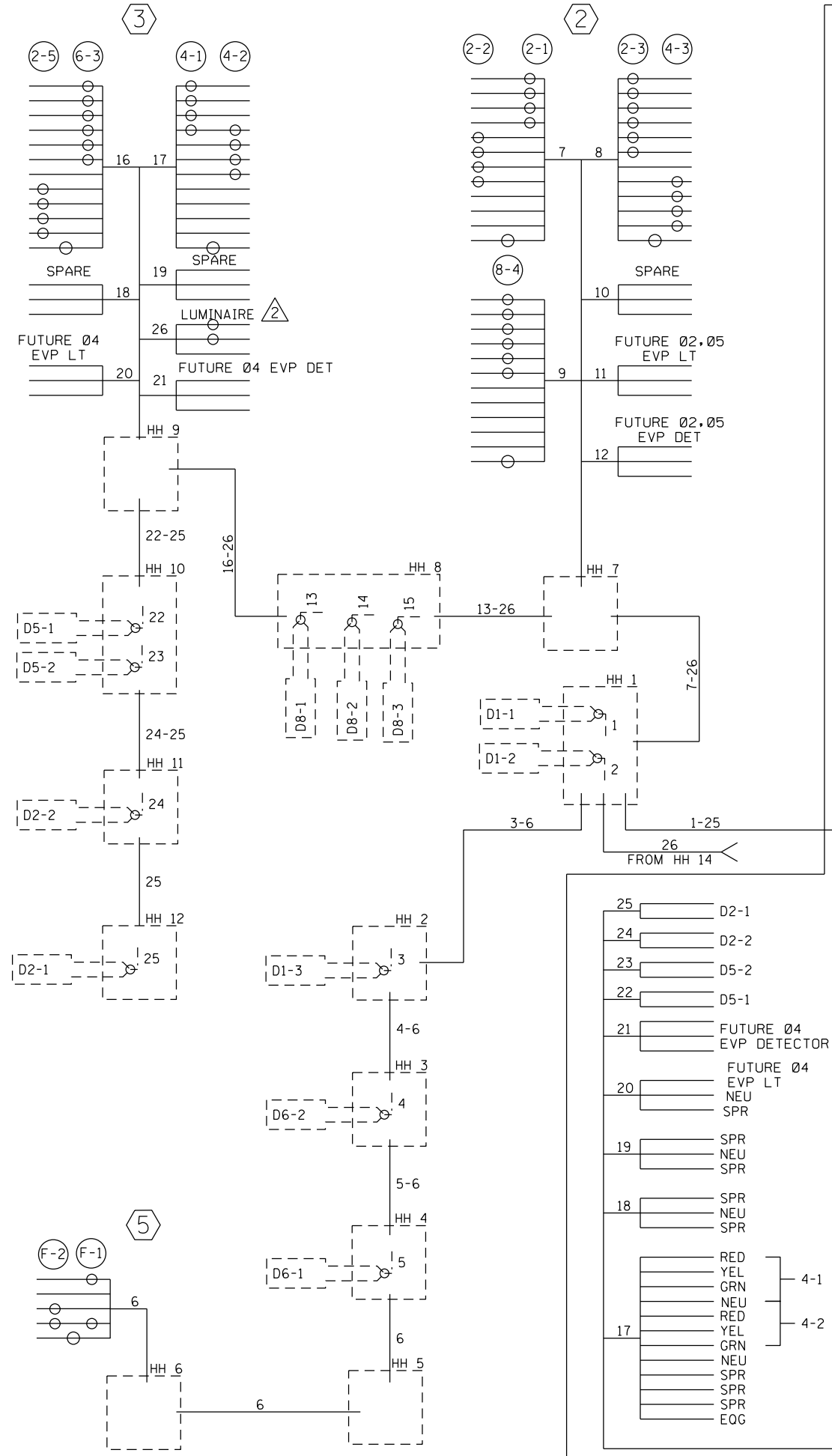
DRAWN BY: JBA	REVISED BY: EJA	REVISED BY: EJA	AS BUILT BY: EJA
CHECKED: MPG DATE: 5-29-02	CHECKED: EJA DATE: 8-31-11	CHECKED: EJA DATE: 7-2-14	CHECKED: EJA DATE: 3-19-15

MATCH LINES

T.H. T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)
 IN TAYLORS FALLS, CHISAGO COUNTY

SYSTEM I.D. : 21868
 METER ADDRESS: 21 LAKE BLVD.
 STATE AID PROJECT:

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



3-19-15: CORRECTED LUMINAIRE LOCATIONS
EJA

S.O.P. METER/LOAD CENTER
GROUND ROD

CONDUCTOR COLOR CODING

12/C#12	3/C#12
2-1/C#6	3/C#20
	2/C#14

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

DRAWN BY: JBA	REVISED BY: EJA	REVISED BY: EJA	AS BUILT BY: EJA
CHECKED: MPG DATE: 5-29-02	CHECKED: EJA DATE: 8-31-11	CHECKED: EJA DATE: 7-2-14	CHECKED: EJA DATE: 3-19-15
SYSTEM I.D.: 21868		T.H. 8 AT E. JCT. T.H. 95 (BENCH ST.)	
METER ADDRESS: 21 LAKE BLVD.		IN TAYLORS FALLS, CHISAGO COUNTY	
STATE AID PROJECT:		LIC. NO. _____ DATE _____	
CERTIFIED BY _____		LICENSED PROFESSIONAL ENGINEER	