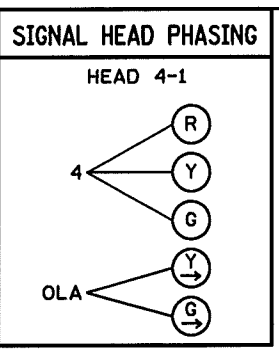


PLOTTED/REVISED: 9/28/2015

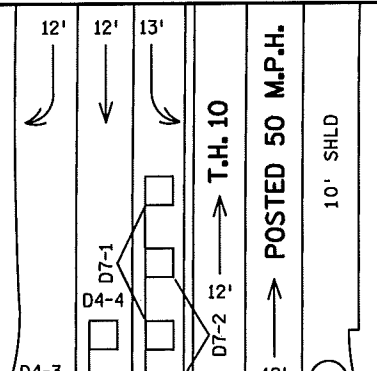
DISTRICT #: METRO
PLOT NAME: layout
PATH & FILENAME: IP_PWP-d0780184T20233_sq1.dgn

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



HH 13 TO HH 12:
4" CONDUIT
3-12/C #14
1-6/C #14
1-4/C #14
* 1-3/C #14
1-3/C #14 (LUM)
4-2/C #14
* 1-3/C #20
1-1/C #6 INS. GR.

MATCH LINE "B"



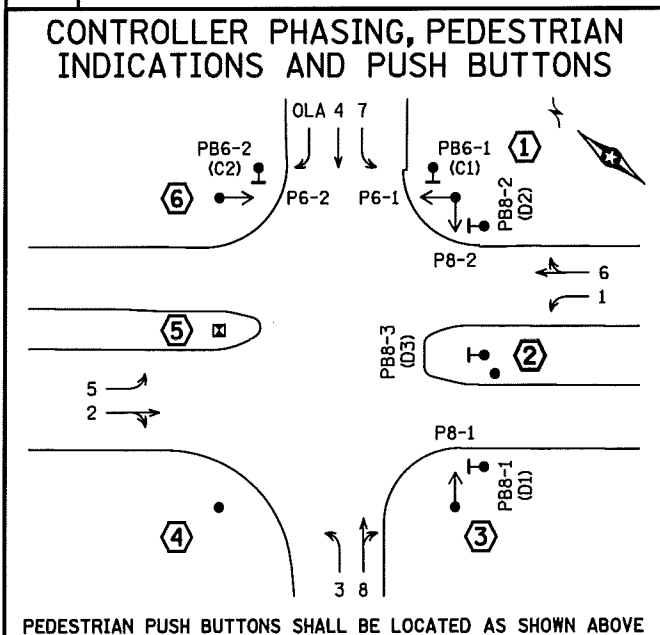
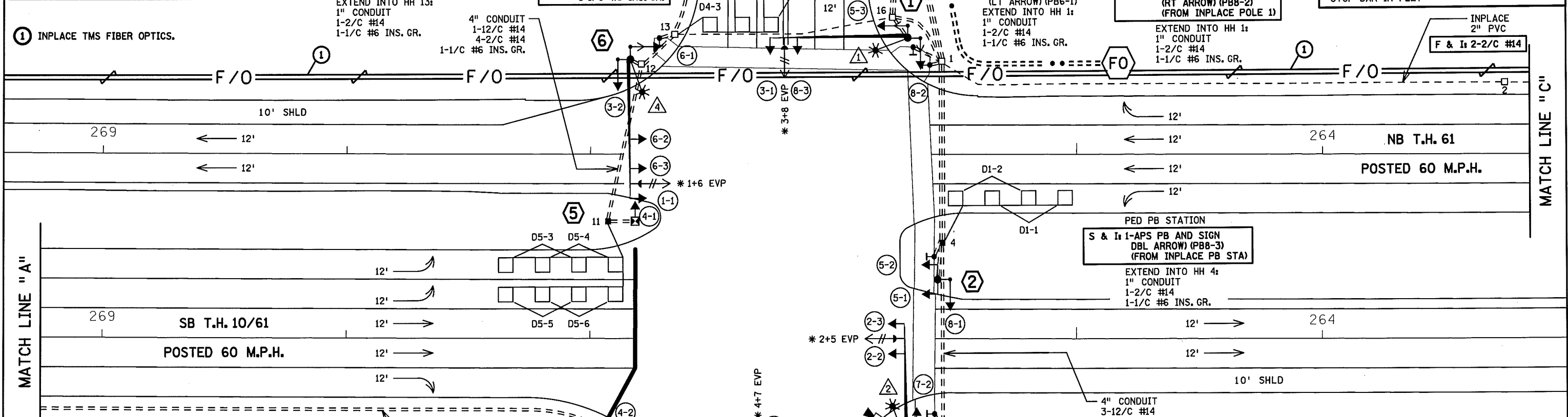
HH 1 TO HH 4:
3" CONDUIT
2-12/C #14
3-2/C #14

HH 1 TO HH 4:
4" CONDUIT
3-12/C #14
2-6/C #14
1-4/C #14
* 2-3/C #14
2-3/C #14 (LUM)
10-2/C #14
* 2-3/C #20
1-1/C #6 INS. GR.
1-3/C #14 (CAMERA POWER)
1-COM CABLE
1-COAXIAL CABLE

LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION	STATUS
D1-1, D5-3, D5-5	2-6x6	20 & 50	F & I
D1-2, D5-4, D5-6	2-6x6	5 & 35	F & I
D2-1, D2-2	6x6	550	F & I
D3-1, D7-1	2-6x6	20 & 50	F & I
D3-2, D7-2	2-6x6	5 & 35	F & I
D4-1, D4-2	6x6	400	F & I
D4-3, D8-2	6x6	5	F & I
D4-4, D8-3	2-6x6	5 & 20	F & I
D5-1, D5-2	6x6	550	F & I
D6-1, D6-2	6x6	455	INPLACE

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



SIGNAL SYSTEM OPERATION

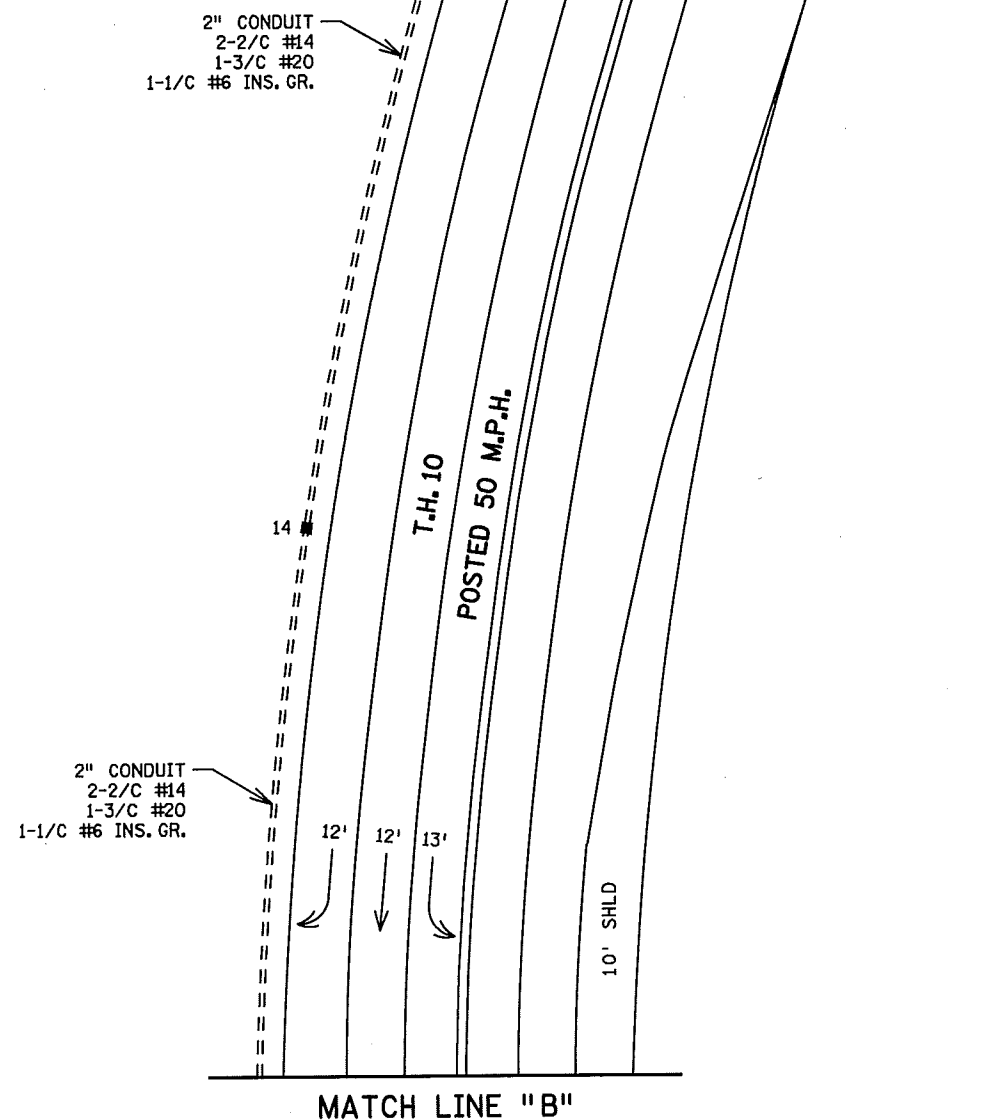
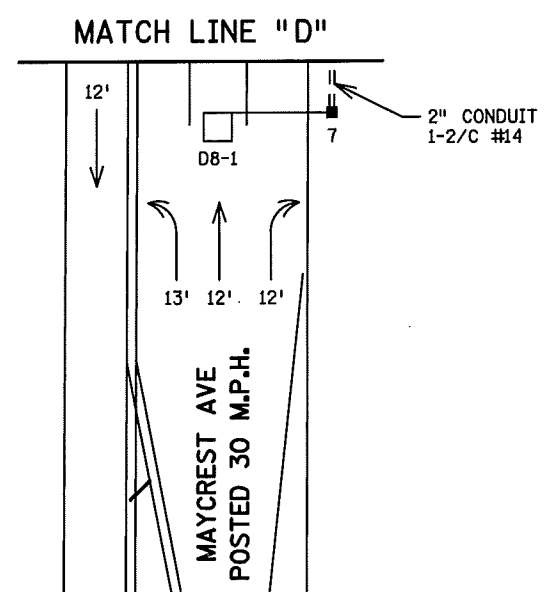
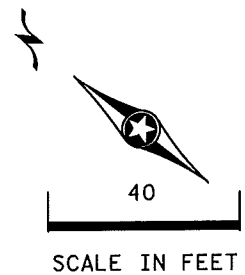
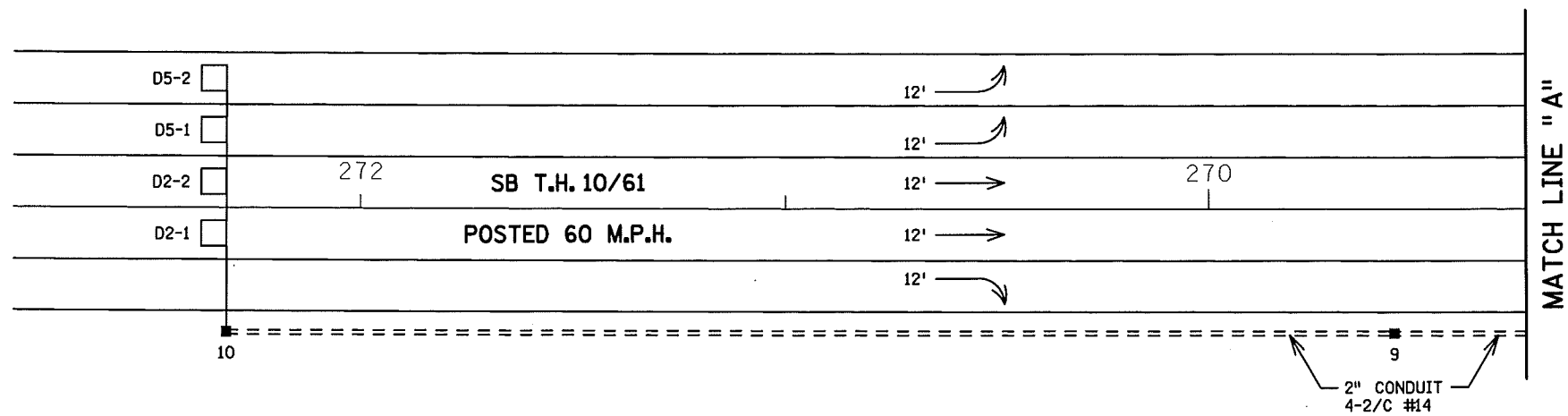
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, AND 7 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.
- OVERLAP A TIMES CONCURRENT WITH PHASES 4&5.

- NOTES:**
1. REFER TO "FOR INFORMATION ONLY" SHEETS FOR INPLACE SIGNAL COMPONENTS.
 2. THE EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS AND PUSH BUTTON STATIONS SHALL BE VERIFIED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 3. FOR MAST ARM SIGNS SEE DETAIL SHEET. ALL SIGNS REQUIRED ARE INCIDENTAL.
 4. CROSSWALK PAVEMENT MARKINGS ARE PAID FOR AND ARE INCLUDED WITHIN THE STRIPING PLAN.
 5. CONSTRUCTION OF PEDESTRIAN CURB RAMPS AND CONCRETE WALK ARE PAID FOR AND ARE INCLUDED WITHIN THE ROADWAY 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. ALL NEW CONDUIT SHALL BE PVC - SCHEDULE 80 OR HDPE SCHEDULE 80 AND SHALL CARRY 1/C#6 GREEN INSULATED GROUNDING CONDUCTOR AS SHOWN IN THE PLAN.
 8. REMOVAL OF THE INPLACE SIGNAL SYSTEM IS INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL SIGNAL SYSTEM PAY ITEM.
 9. ALL S&I EQUIPMENT IS FROM THE INPLACE PERMANENT SIGNAL SYSTEM.
 10. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.

BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 6388	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 09-24-15
			METER ADDRESS: 12100 PT DOUGLAS DR S		CERTIFIED BY: <i>Michael P. Selinsky</i>		LIC. NO. 19863	DATE: 09-28-15
			MASTER ID:	T.E.	STATE PROJ. NO. 8205-137 (T.H. 61)		SHEET NO. SS9 OF SS17 SHEETS	

INTERSECTION LAYOUT
T.H. 10 AT T.H. 61 (POINT DOUGLAS DR.)
S. JCT/MAYCREST AVE.
IN DENMARK TOWNSHIP, WASHINGTON COUNTY

DISTRICT #: METRO
 IPLOT NAME: match lines
 PATH & FILENAME: IP_PWF-d0780184T20233_sgl.dgn
 PLOTTED/REVISED: 9/28/2015



① INPLACE TMS FIBER OPTICS.

BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 6388	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 09-24-15
			METER ADDRESS: 12100 PT DOUGLAS DR S		CERTIFIED BY <i>Michael P. Lubinsky</i> <small>LICENSED PROFESSIONAL ENGINEER</small>		LIC. NO. 19863	DATE: 09-28-15
			MASTER ID:	T.E.	STATE PROJ. NO. 8205-137 (T.H. 61)		SHEET NO. SS10 OF SS17 SHEETS	

MATCH LINES LAYOUT
T.H. 10 AT T.H. 61 (POINT DOUGLAS DR.)
S. JCT/MAYCREST AVE.
IN DENMARK TOWNSHIP, WASHINGTON COUNTY

PLOTTED/REVISED: 9/28/2015

DISTRICT #: METRO
PLOT NAME: intersection notes
PATH & FILENAME: IP_PWP-0076018AT20233_sgl.dgn

7 PEDESTAL FOUNDATION

S & I: 10' PEDESTAL POLE PLUS BASE
* ONE WAY EVP DETECTOR (PHASE 4)
MOUNTED ON TOP OF PEDESTAL POLE
(FROM INPLACE SIGNAL)

- 2" CONDUIT TO HH 15:
- * 1-3/C #20
- 1-1/C #6 INS. GR.

6 PA100 POLE FOUNDATION
TYPE PA100-A-55

S & I: D40-9 (DAVIT AT 350 DEG)
1-PAIR SWING AWAY HINGES
1-ANGLE MOUNT OVERHEAD AT 0' (FOR HEAD 1-1)
2-STRAIGHT MOUNT SIGNALS (6-2) (6-3)
OVERHEAD AT 11' AND 23'

- 1-ANGLE MOUNT AT 90 DEG (FOR HEAD 3-2)
- 1-ANGLE MOUNT SIGNAL (6-1) AT 180 DEG
- * 1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 1+6)
- 1-R9-3 SIGN (NO PEDS) FACING POLE 5
- 1-R6-IR SIGN (ONE WAY)
- 1-R6-IL SIGN (ONE WAY)
(FROM INPLACE SIGNAL)

- 1-SIGNAL HEAD (1-1) OVERHEAD AT 0'
- 1-SIGNAL HEAD (3-2) AT 90 DEG
- 1-ANGLE MOUNT C.D. PED HEAD (P6-2) AT 180 DEG
- LUMINAIRE-LED
- 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
- 2-TYPE D SIGNS (D-1) (D-3) (SEE SIGN DETAILS)
- 3" CONDUIT TO HH 12:
- 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.

5 PEDESTAL FOUNDATION

S & I: 14' PEDESTAL POLE PLUS BASE
1-ONE WAY SIGNAL (4-1)
2-R9-3 SIGNS (NO PEDS) FACING POLES 4 AND 6
(FROM INPLACE SIGNAL)

- 3" CONDUIT TO HH 11:
- 1-12/C #14
- 1-1/C #6 INS. GR.

4 PA100 POLE FOUNDATION
A-55-D40-9 (DAVIT AT 350 DEG)

S & I: TYPE PA100
1-ANGLE MOUNT OVERHEAD AT 0' (FOR HEAD 7-1)
1-STRAIGHT MOUNT SIGNAL (4-3) OVERHEAD AT 11'
1-SIGNAL HEAD (4-2) AT 180 DEG
* 1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 4+7)
2-R9-3 SIGNS (NO PEDS) FACING POLES 3 AND 5
(FROM INPLACE SIGNAL)

- 1-SIGNAL HEAD (7-1) OVERHEAD AT 0'
- 1-ANGLE MOUNT SIGNAL (1-2) AT 90 DEG
- 1-ANGLE MOUNT AT 180 DEG (FOR HEAD 4-2)
- LUMINAIRE-LED
- 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
- 1-TYPE D SIGN (D-6) (SEE SIGN DETAILS)
- 3" CONDUIT TO HH 8:
- 1-12/C #14
- 2-6/C #14
- * 1-3/C #14
- 1-3/C #14 (LUM)
- * 1-3/C #20
- 1-1/C #6 INS. GR.

1 PA100 POLE FOUNDATION
TYPE PA100-A-55

S & I: D40-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT OVERHEAD AT 0' (FOR HEAD 3-1)
1-STRAIGHT MOUNT SIGNAL (8-3) OVERHEAD AT 11'
1-ANGLE MOUNT AT 90 DEG (FOR HEAD 5-3)
1-ANGLE MOUNT SIGNAL (8-2) AT 180 DEG
1-ANGLE MOUNT C.D. PED HEAD (P8-2) AT 180 DEG
* 1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 3+8)
(FROM INPLACE SIGNAL)

- 1-SIGNAL HEAD (3-1) OVERHEAD AT 0'
- 1-SIGNAL HEAD (5-3) AT 90 DEG
- 1-ANGLE MOUNT C.D. PED HEAD (P6-1) AT 90 DEG
- LUMINAIRE-LED
- 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
- 1-TYPE D SIGN (D-5) (SEE SIGN DETAILS)
- 3" CONDUIT TO HH 16:
- 1-12/C #14
- 2-6/C #14
- 2-4/C #14
- * 1-3/C #14
- 1-3/C #14 (LUM)
- * 1-3/C #20
- 1-1/C #6 INS. GR.

2 PA85 POLE FOUNDATION
TYPE PA85-AHST-4.5/4.5-203 (TEE POLE)

- 2-ANGLE MOUNT SIGNALS (5-1) (5-2)
OVERHEAD AT 0 DEG & 180 DEG
- 1-ANGLE MOUNT SIGNAL (8-1) AT 90 DEG
- 1-R10-X12 SIGN
- 3" CONDUIT TO HH 4:
- 2-12/C #14
- 1-1/C #6 INS. GR.

3 PA100 POLE FOUNDATION

S & I: TYPE PA100-A-45-X6-350/CAM 400 (AT 350 DEG)
1-VIDEO CAMERA WITH MOUNT
1-PAIR SWING AWAY HINGES
1-SIGNAL HEAD (2-3) OVERHEAD AT 0'
1-SIGNAL HEAD (2-2) OVERHEAD AT 11'
1-ANGLE MOUNT C.D. PED HEAD (P8-1) AT 90 DEG
1-R9-3 SIGN (NO PEDS) FACING POLE 4
(FROM INPLACE SIGNAL)

- 1-ANGLE MOUNT OVERHEAD AT 0' (FOR HEAD 2-3)
- 1-STRAIGHT MOUNT OVERHEAD AT 11' (FOR HEAD 2-2)
- 2-ANGLE MOUNT SIGNALS (7-2) (2-1)
AT 90 AND 180 DEG
- * 1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 2 AND 5)
LUMINAIRE-LED
- 1-R6-IR SIGN (ONE WAY)
- 1-R6-IL SIGN (ONE WAY)
- 2-TYPE D SIGNS (D-2) (D-4) (SEE SIGN DETAILS)
- 3" CONDUIT TO HH 5:
- 2-12/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.
- 1-7/16" GROUNDING BRAID
TO GROUND ROD IN HH 6
- 1-3/C #14 (CAMERA POWER)
- 1-COM CABLE
- 1-COAXIAL CABLE

A EQUIPMENT PAD
SERVICE CABINET

S & I: CONTROLLER AND CABINET

- 4" CONDUIT TO HH 1:
- 3-12/C #14
- 2-6/C #14
- 1-4/C #14
- * 2-3/C #14
- 10-2/C #14
- * 2-3/C #20
- 1-1/C #6 INS. GR.
- 1-3/C #14 (CAMERA POWER)
- 1-COM CABLE
- 1-COAXIAL CABLE

- 3" CONDUIT TO HH 1:
- 2-12/C #14
- 7-2/C #14

- 4" CONDUIT TO HH 16:
- 3-12/C #14
- 1-6/C #14
- 1-4/C #14
- * 1-3/C #14
- 11-2/C #14
- * 2-3/C #20
- 1-1/C #6 INS. GR.

- 3" CONDUIT TO HH 16:
- 1-12/C #14
- 2-6/C #14
- 2-4/C #14
- * 1-3/C #14
- * 1-3/C #20

2" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)

1 1/2" PVC STUB OUT
(FOR CONNECTION OF 1 1/2" PVC FROM TMS VAULT);
1-FIBER OPTIC CABLE (6SM) WITH PRE-TERMINATED CABLE END
(SEE TMS PLAN FOR FIBER OPTIC CONSTRUCTION)

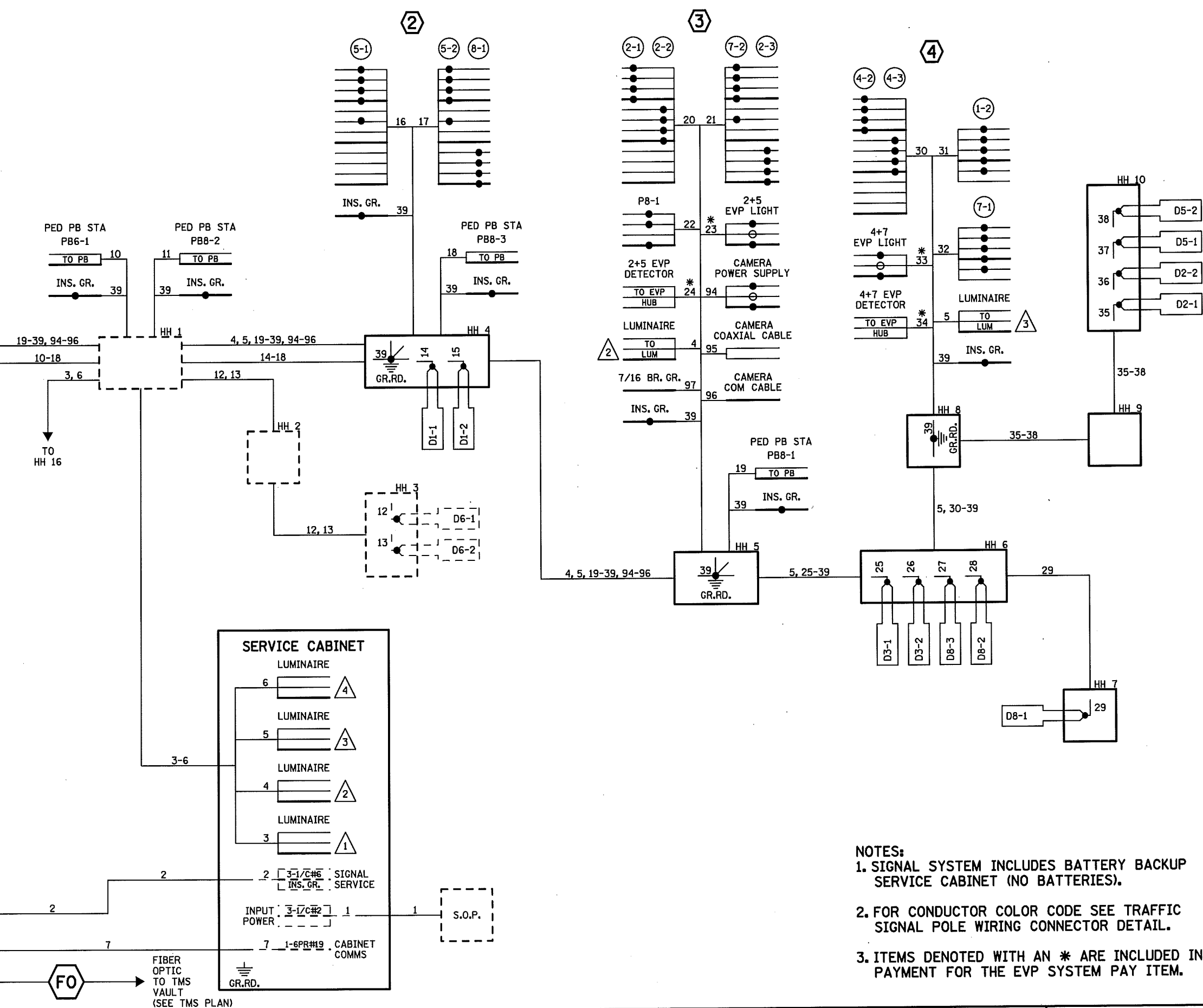
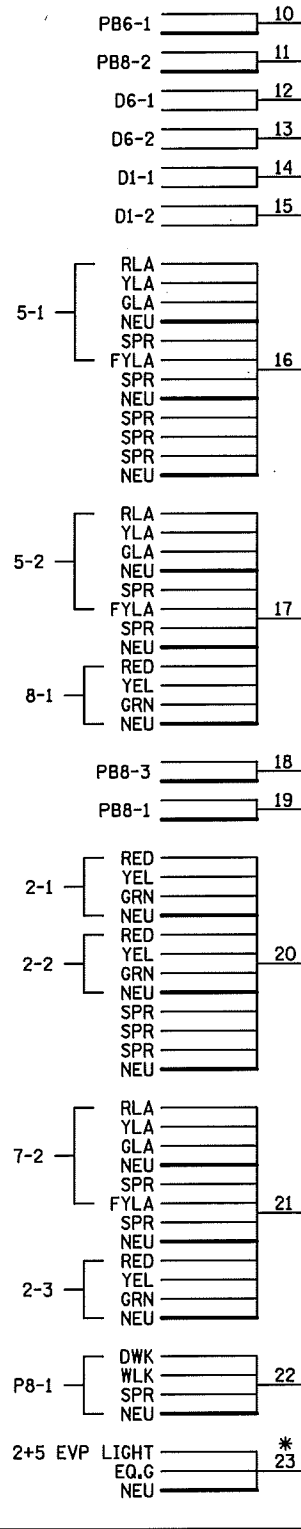
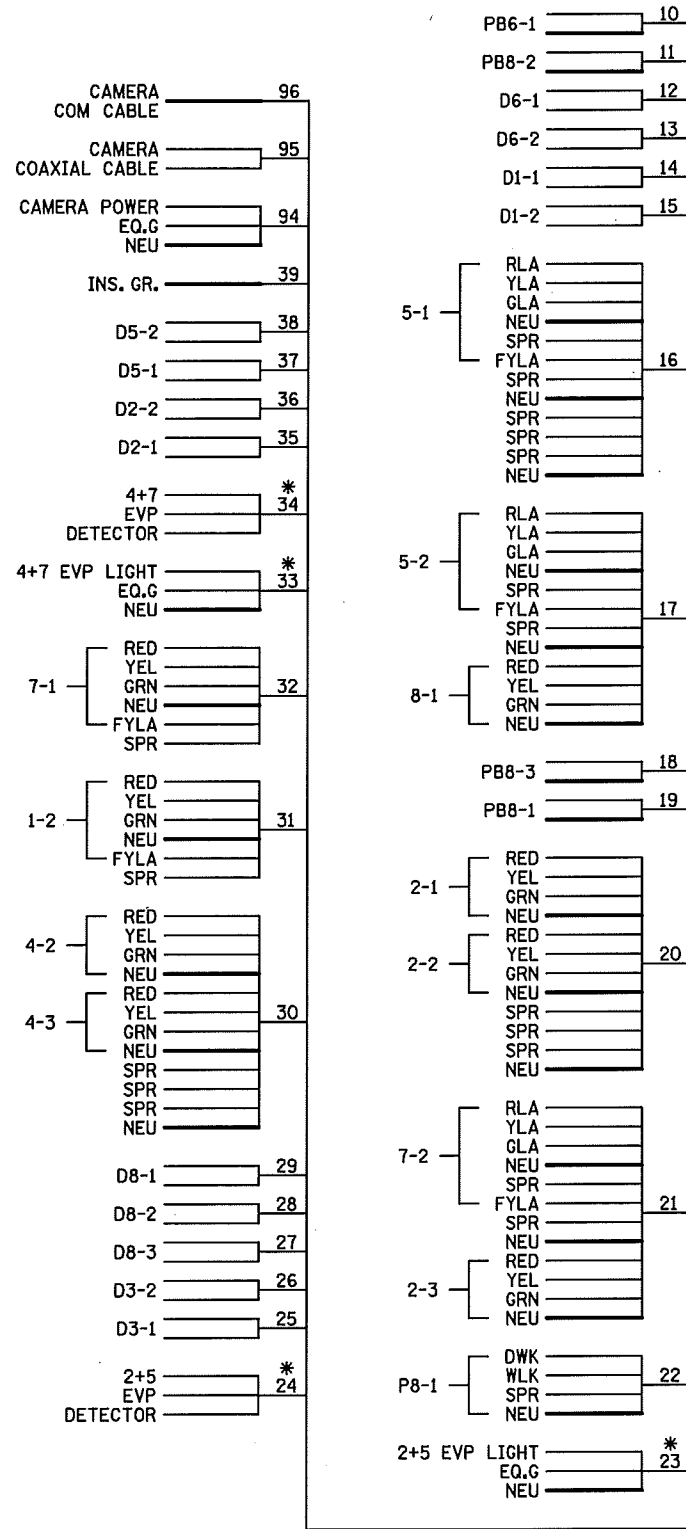
CONTROLLER CABINET TO SERVICE CABINET:

- 2" CONDUIT
- 2-1/C #6
- 1-1/C #6 INS. GR.
- SERVICE CABINET TO SOP:
- 2" CONDUIT
- 3-1/C #2
- SERVICE CABINET TO HH 1:
- 2" CONDUIT
- 4-3/C #14 (LUM)
- HH 1 TO HH 16:
- 2" CONDUIT
- 2-3/C #14 (LUM)

B SOP-(BY XCEL ENERGY)
2" CONDUIT INTO SERVICE CABINET:
3-1/C #2

BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 6388	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 09-24-15
			METER ADDRESS: 12100 PT DOUGLAS DR S		CERTIFIED BY: <i>Michael P. Lubinsky</i>		LIC. NO. 19863	DATE: 09-28-15
			MASTER ID:	T.E.	STATE PROJ. NO. 8205-137 (T.H. 61) SHEET NO. SS11 OF SS17 SHEETS			
INTERSECTION NOTES T.H. 10 AT T.H. 61 (POINT DOUGLAS DR.) S. JCT/MAYCREST AVE. IN DENMARK TOWNSHIP, WASHINGTON COUNTY								

CONTROLLER CABINET



- NOTES:**
1. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET (NO BATTERIES).
 2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
 3. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.

DISTRICT #: METRO
 PLOT NAME: wiring 1
 PATH & FILENAME: IP_PWP-00780184T20233_sgl.dgn

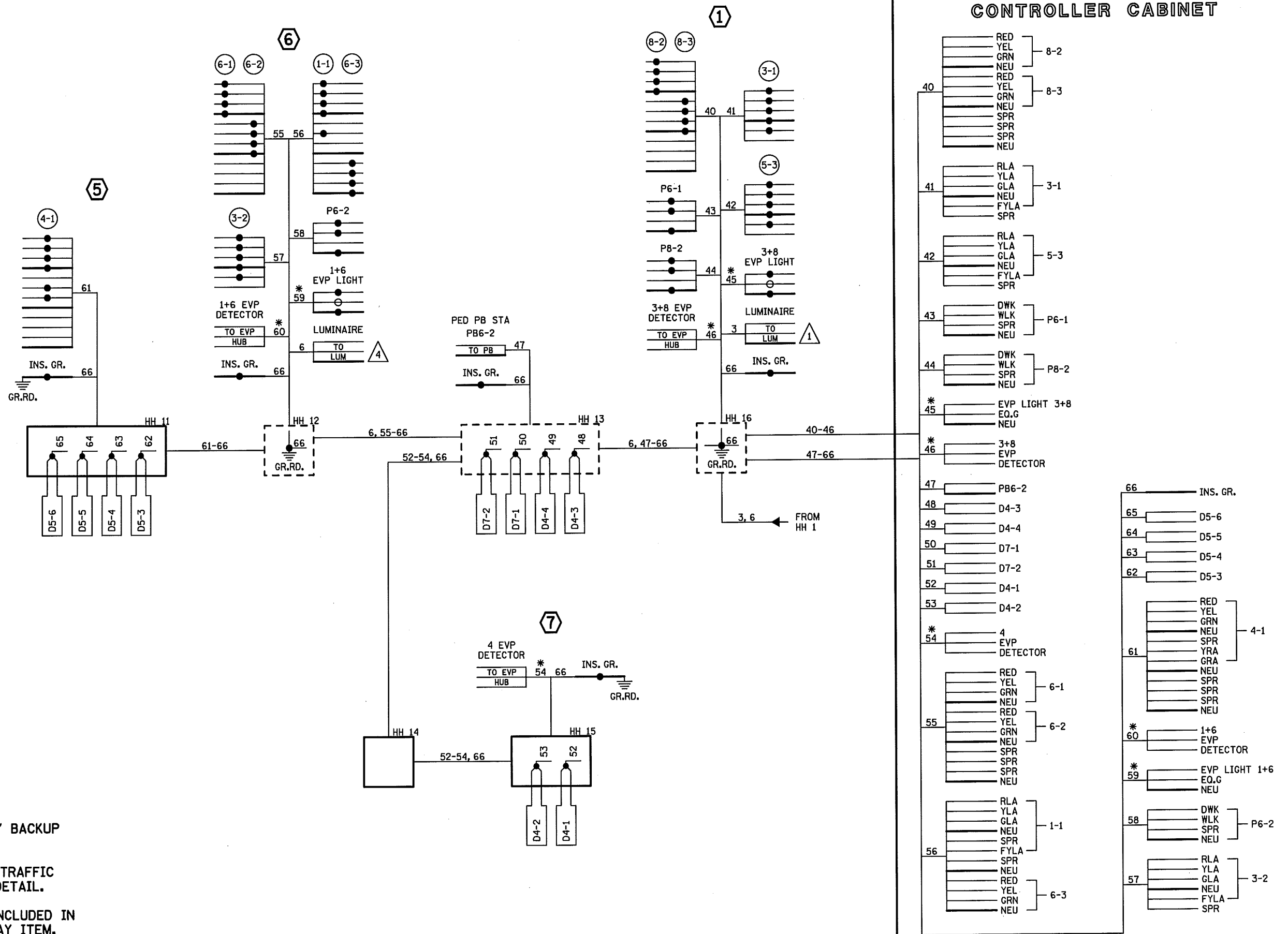
BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 6388	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 09-24-15
			METER ADDRESS: 12100 PT DOUGLAS DR S		CERTIFIED BY: <i>Michael P. Sabusky</i>		LIC. NO. 19863	DATE: 09-28-15
			MASTER ID:	T.E.	STATE PROJ. NO. 8205-137 (T.H. 61)		SHEET NO. SS12 OF SS17 SHEETS	

FIELD WIRING DIAGRAM (1 OF 2)
 T.H. 10 AT T.H. 61 (POINT DOUGLAS DR.)
 S. JCT/MAYCREST AVE.
 IN DENMARK TOWNSHIP, WASHINGTON COUNTY

PLOTTED/REVISED: 9/28/2015

DISTRICT #: METRO
I/PLOT NAME: wiring 2
PATH & FILENAME: IP_PWP-d0780184T20233_sgl.dgn

CONTROLLER CABINET



- NOTES:**
1. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET (NO BATTERIES).
 2. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
 3. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.

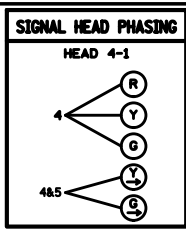
BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 6388	S.A.P. NO.	DRAWN BY: GDS	CKD BY: EJA	DATE: 09-24-15
			METER ADDRESS: 12100 PT DOUGLAS DR S		CERTIFIED BY: <i>Michael P. Lubinsky</i>		LIC. NO. 19863	DATE: 09-28-15
			MASTER ID:	T.E.	STATE PROJ. NO. 8205-137 (T.H. 61) SHEET NO. SS13 OF SS17 SHEETS			

FIELD WIRING DIAGRAM (2 OF 2)
T.H. 10 AT T.H. 61 (POINT DOUGLAS DR.)
S. JCT/MAYCREST AVE.
IN DENMARK TOWNSHIP, WASHINGTON COUNTY

DISTRICT #: METRO
PILOT NAME: layout
PATH & FILENAME: IP_PWP-dot0010618AT20233-spl.dgn

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

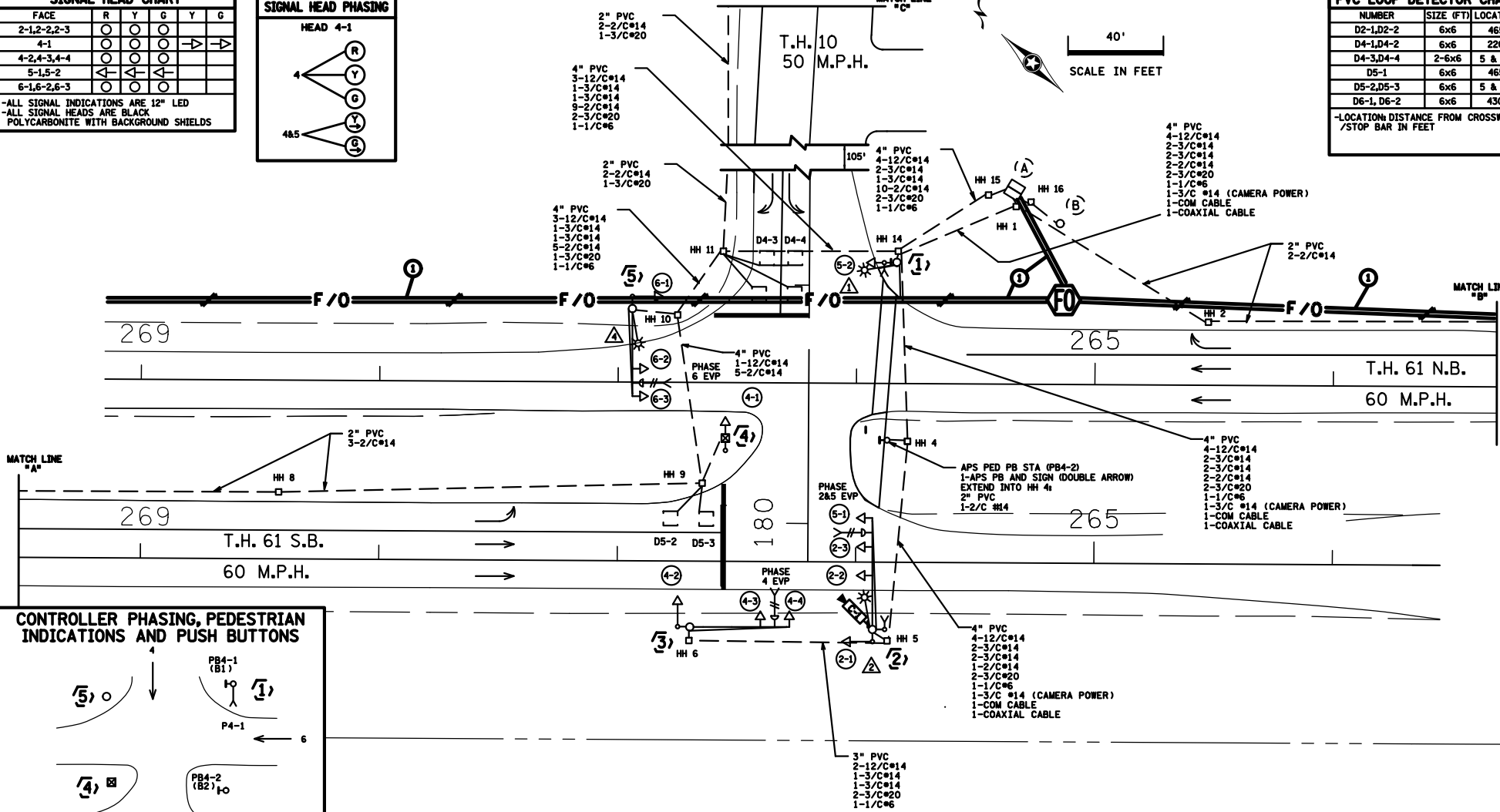
-ALL SIGNAL INDICATIONS ARE 12" LED
-ALL SIGNAL HEADS ARE BLACK POLYCARBONITE WITH BACKGROUND SHIELDS



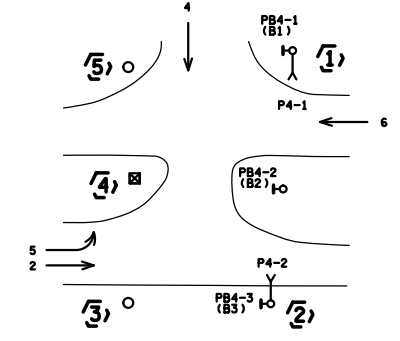
PVC LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D2-1,D2-2	6x6	465'
D4-1,D4-2	6x6	220'
D4-3,D4-4	2-6x6	5 & 20
D5-1	6x6	465'
D5-2,D5-3	6x6	5 & 20
D6-1, D6-2	6x6	430'

-LOCATION: DISTANCE FROM CROSSWALK /STOP BAR IN FEET



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE, WITH PHASE 5 BEING A PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.
- OVERLAP A TIMES CONCURRENT WITH PHASE 5.

PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

BY	DATE	REVISIONS
EJA	10-22-14	AS-BUILT OF SP 1913-75 FIBER & CAMERA

SYSTEM ID# 20233	T.E. 5865
METER ADDRESS#12100 PT DOUGLAS DR SOUTH	
MASTER ID#	T.E.

INTERSECTION LAYOUT
 TH10 AT TH61 S JCT (POINT DOUGLAS DR)
 IN DENMARK TOWNSHIP, WASHINGTON COUNTY

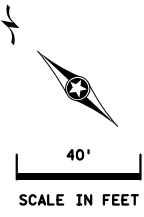
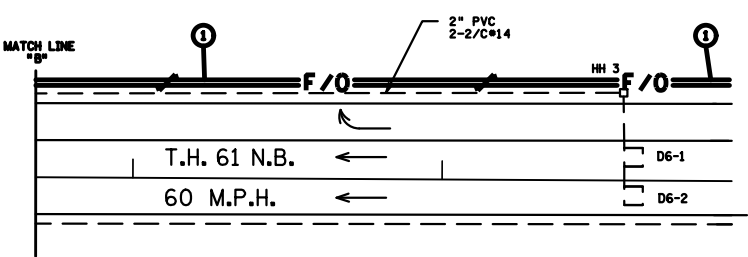
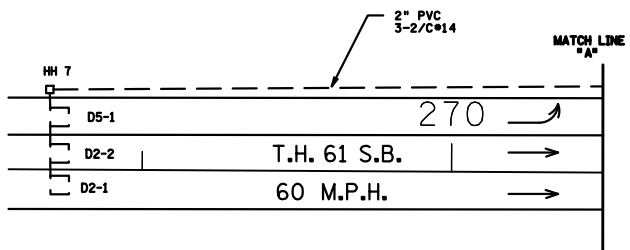
S.A.P. NO. _____
 CERTIFIED BY *Michael P. Selinsky*
 LICENSED PROFESSIONAL ENGINEER

DRAWN BY: SJK CKD BY: EJA DATE: 09-10-13
 LIC. NO. 19863 DATE: 09-10-13
 STATE PROJ. NO. (T.H.61) SHEET NO. 1 OF 3 SHEETS

SEE THE TMS PLAN FOR FIBER OPTIC CONSTRUCTION.

PLOTTED/REVISED: 10/22/2014

DISTRICT #: METRO
 I/PLOT NAME: match lines pole notes
 I/PATH & FILENAME: IP_PWP-DOT80108AT20233_sgl.dgn



- ① PA90 POLE FOUNDATION
 TYPE PA90-D40-9 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL AT 0 DEG
 1-ANGLE MOUNT C.D. PED IND AT 0 DEG
 LUMINAIRE 250 WATT HPS
 1-SIGN TYPE (R9-3) (FACING POLE 5)
 EXTEND INTO HH 14:
 3" PVC
 1-12/C#14
 1-3/C#14
 1-2/C#14
 2-1/C#6

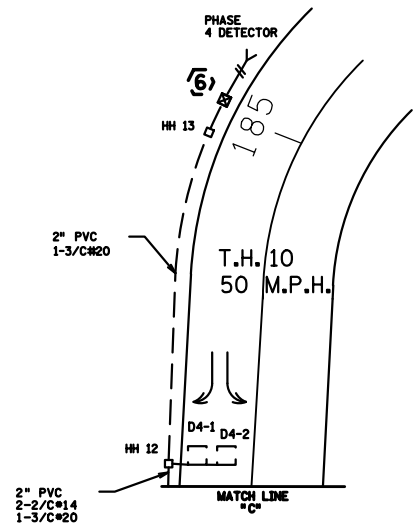
- ④ PEDESTAL FOUNDATION
 14" PEDESTAL AND BASE
 1-ONE WAY SIGNAL (SEE DETAIL)
 2-SIGNS TYPE (R9-3) (FACING POLES 3 AND 5)
 2" PVC INTO HH 9:
 3" PVC
 1-12/C#14
 1-1/C#6

- ① EQUIPMENT PAD
 SERVICE CABINET
 CONTROLLER AND CABINET
 EXTEND INTO HH 1:
 4" PVC
 4-12/C#14
 2-3/C#14
 4-2/C#14
 2-3/C#20
 1-1/C#6
 EXTEND INTO HH 15:
 4" PVC
 4-12/C#14
 1-3/C#14
 10-2/C#14
 2-3/C#20
 1-1/C#6
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

- ② PA100 POLE FOUNDATION
 TYPE PA100-A-45-X6-350/CAM 400 (AT 350 DEG)
 1-VIDEO CAMERA WITH MOUNT
 1-LUMINAIRE-250W HPS
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0 DEG
 2-STRAIGHT MOUNT SIGNALS AT 11' AND 23'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 1-ANGLE MOUNT C.D. PED HEADAT 90 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2 AND 5)
 1-APS PUSHBUTTON AND SIGN (LT ARROW) (PB4-3)
 1-SIGN TYPE D
 1-SIGN TYPE (R9-3) (FACING POLE 3)
 EXTEND INTO HH 5:
 3" PVC
 2-12/C#14
 1-3/C#14
 1-3/C#14
 1-2/C#14
 1-3/C#20
 2-1/C#6
 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH 5
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

- ⑤ PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0 DEG
 1-STRAIGHT MOUNT SIGNAL AT 11'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 6)
 LUMINAIRE 250 WATT HPS
 1-SIGN TYPE D
 2-SIGNS TYPE (R9-3) (FACING POLES 1 AND 4)
 2-SIGNS TYPE (R6-1) (1 EACH LEFT AND RIGHT) 48" X18"
 EXTEND INTO HH 10:
 3" PVC
 2-12/C#14
 1-3/C#14
 1-3/C#14
 1-3/C#14
 1-3/C#20
 1-1/C#6

- 2" PVC STUBBED OUT AND CAPPED BOTH ENDS
 SERVICE CABINET TO CONTROLLER CABINET
 2" PVC
 2-1/C#6
 1-1/C#6 (INS GR)
 SERVICE CABINET TO HH 15:
 2" PVC
 4-3/C#14
 CONTROLLER CABINET TO TMS VAULT
 1 1/2" PVC
 INSIDE
 3" PVC STUB OUT
 1-FIBER OPTIC CABLE (6SM) WITH PRE-TERMINATED CABLE END



- ③ PA100 POLE FOUNDATION
 TYPE PA100-A-40
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0 DEG
 1-STRAIGHT MOUNT SIGNALS AT 11'
 1-ANGLE MOUNT SIGNAL AT 180 DEG
 1-ONE WAY EVP DETECTOR AN CONFIRMATORY LIGHT (PHASE 4)
 1-SIGN TYPE D
 2-SIGN TYPE (R9-3) (FACING POLES 2 AND 4)
 EXTEND INTO HH 6:
 3" PVC
 2-12/C#14
 1-3/C#14
 1-3/C#14
 1-3/C#14
 1-3/C#20
 1-1/C#6

- ⑥ PEDESTAL FOUNDATION
 10" PEDESTAL PLUS BASE
 ONE WAY EVP DETECTOR PHASE 4 MOUNTED ON TOP OF PEDESTAL POLE
 2" PVC INTO HH 13:
 1-3/C#20

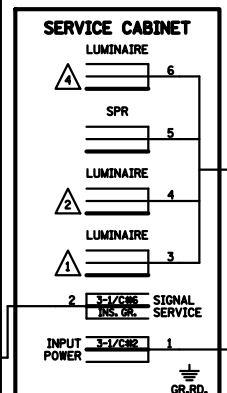
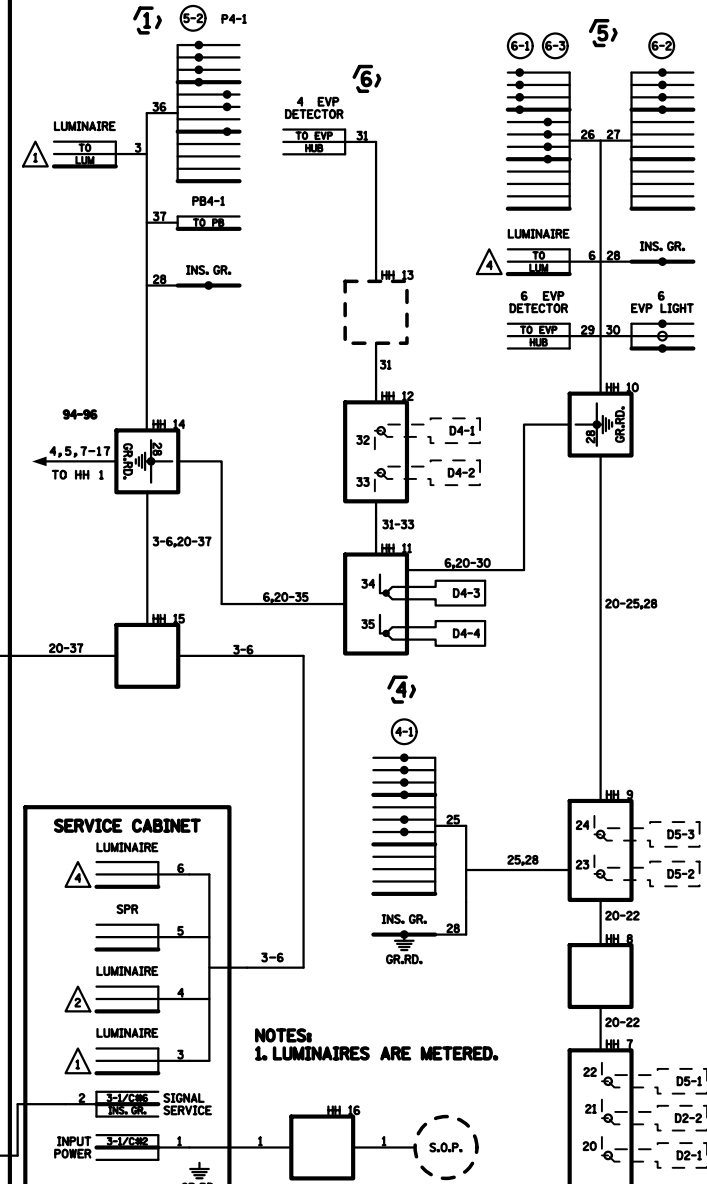
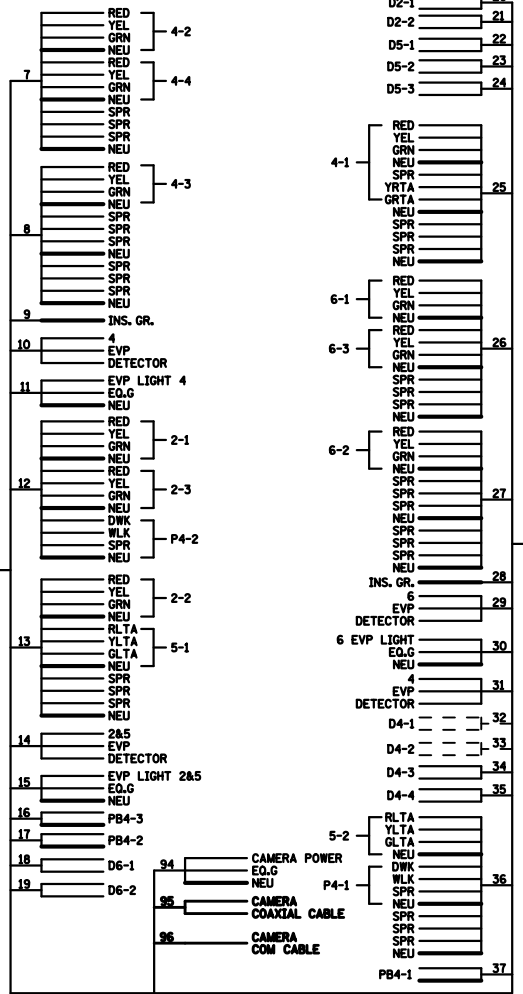
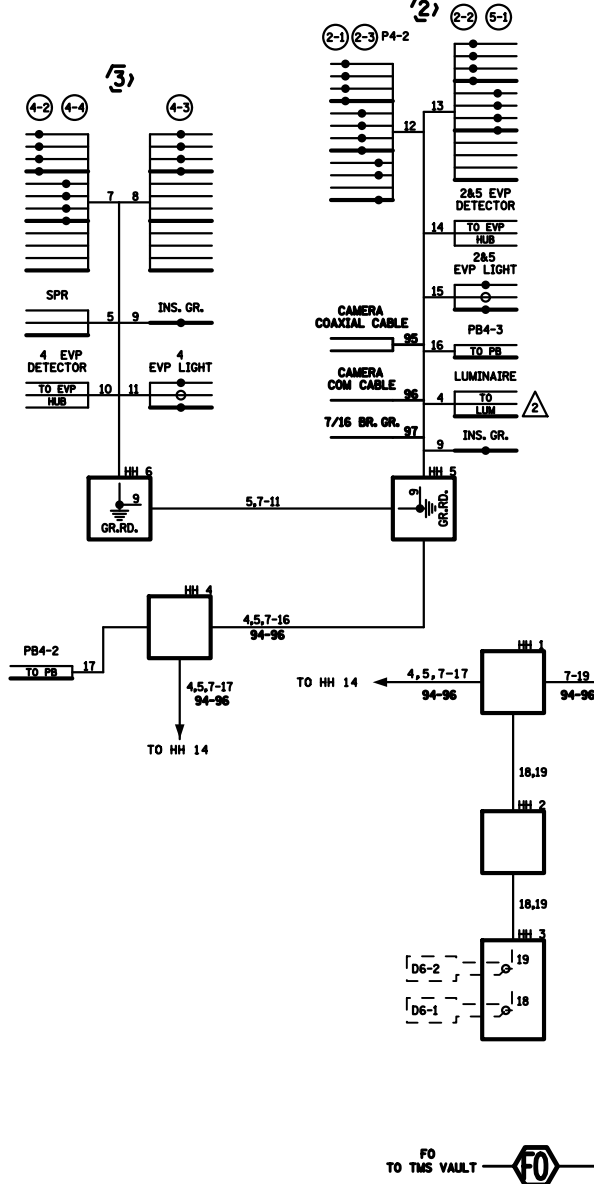
- ① WOOD POLE (BY XCEL ENERGY)
 FROM S.O.P. TO SERVICE CABINET VIA HH 16:
 2" PVC RISER AND WEATHERHEAD
 2-1/C#2
 1-1/C#6 (INS GR)

① SEE THE TMS PLAN FOR FIBER OPTIC CONSTRUCTION.

BY	DATE	REVISIONS	SYSTEM ID: 20233	T.E. 5865	S.A.P. NO.	DRAWN BY: SJK	CKD BY: EJA	DATE: 09-10-13
EJA	10-22-14	AS-BUILT OF SP 1913-75 FIBER & CAMERA	METER ADDRESS: 12100 PT DOUGLAS DR SOUTH		CERTIFIED BY: <i>Michael P. Sbraly</i>	LIC. NO. 19863	DATE: 09-10-13	
			MASTER ID:	T.E.	STATE PROJ. NO. (T.H. 61)		SHEET NO. 2 OF 3 SHEETS	

MATCH LINES AND INTERSECTION NOTES
 TH10 AT TH61 S JCT (POINT DOUGLAS DR)
 IN DENMARK TOWNSHIP, WASHINGTON COUNTY

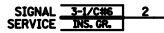
CONTROLLER CABINET



NOTES:
1. LUMINAIRES ARE METERED.



FIBER OPTIC CABLE



BY	DATE	REVISIONS
EJA	10-22-14	AS-BUILT OF SP 1913-75 FIBER & CAMERA

SYSTEM ID: 20233	T.E. 5865
METER ADDRESS: 12100 PT DOUGLAS DR SOUTH	
MASTER ID:	T.E.

FIELD WIRING DIAGRAM
TH10 AT TH61 S JCT (POINT DOUGLAS DR)
IN DENMARK TOWNSHIP, WASHINGTON COUNTY

S.A.P. NO.	DRAWN BY: SJK	CKD BY: EJA	DATE: 09-10-13
CERTIFIED BY: <i>Michael P. Sabudy</i>	L.I.C. NO. 19863	DATE: 09-10-13	
STATE PROJ. NO. (T.H.61)	SHEET NO. 3 OF 3 SHEETS		