

PLOTTED/REVISED: 1/14/2013

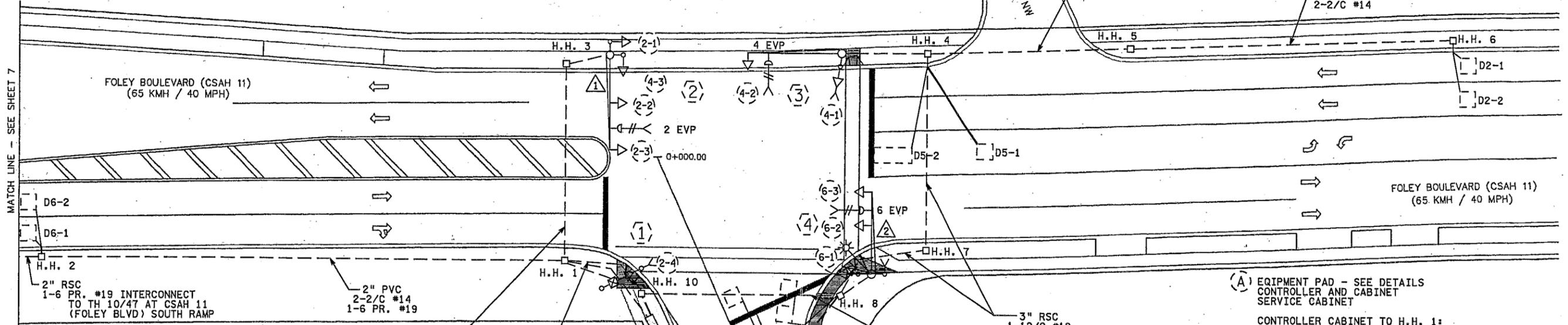
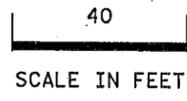
DISTRICT #: METRO  
PLOT NAME: signal layout  
PATH & FILENAME: IP\_FWP-d0780205V22229.sgl.dgn

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D2-1	6X6	250'
D2-2	6X6	250'
D4-1	2-6X6	120'
D4-2	2-6X6	0' & 15'
D4-3	2-6X6	5' & 20'
D5-1	6X6	50'
D5-2	6X15	0'
D6-1	6X6	250'
D6-2	6X6	250'

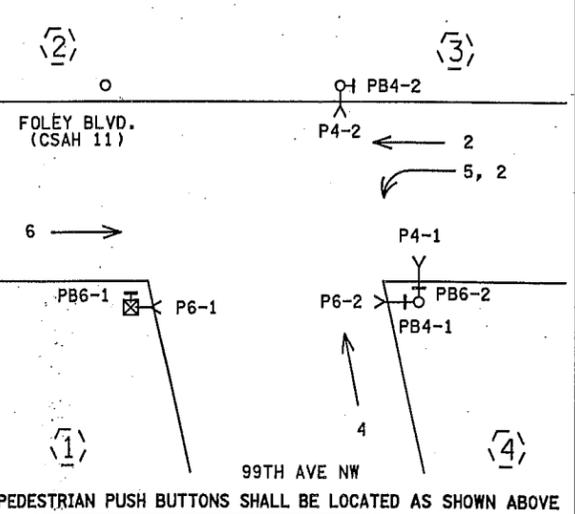
-ALL LOOP DETECTORS ARE PVC  
-LOCATION: DISTANCE FROM  
CROSSWALK/STOP BAR IN FEET

(2) PA 90 POLE FOUNDATION  
TYPE PA90-A-10.1-D12-3 (DAVIT AT 350 DEG.)  
LUMINAIRE-200 WATT H.P.S.  
2-ONE WAY SIGNALS-OVERHEAD (0' AND 16' 8.5"  
FROM LEFT END OF MAST ARM)  
TYPE 20A-POLE MOUNTED 270 DEG.  
R9-3a SIGN PANEL (1.5' X 1.5')-  
POLE MOUNTED (FACING POLE 1)  
R10-12 SIGN PANEL (3' X 4')-  
OVERHEAD (ADJACENT TO 2-3)  
TYPE "D" SIGN PANEL (10' X 1.5')-  
OVERHEAD (D-1)  
ONEWAY EVP DETECTOR AND LIGHT-OVERHEAD (PHASE 2)  
EXTEND INTO H.H. 3:  
3" RSC  
2-12/C #12  
1-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)

(3) PA 90 POLE FOUNDATION  
TYPE PA 90-A-10.7  
ONE WAY SIGNAL-OVERHEAD  
TYPE 10B-POLE MOUNTED 0 DEG.  
PEDESTRIAN PUSH BUTTON AND  
SIGN (R10-4B)  
TYPE "D" SIGN PANEL (10' X 1.5')-  
OVERHEAD (D-2)  
ONE WAY EVP DETECTOR AND LIGHT-  
OVERHEAD (#4)  
EXTEND INTO H.H. 4:  
3" PVC  
1-12/C #12  
2-3/C #12  
1-3/C #20



**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/PERMISSIVE LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

(1) PEDESTAL FOUNDATION  
10' PEDESTAL POLE AND BASE  
TYPE 1C  
PEDESTRIAN PUSH BUTTON AND SIGN  
(R9-3A) SIGN PANEL  
POLE MOUNTED (FACING POLE 2)  
EXTEND INTO H.H.1:  
3" RSC  
1-12/C #12  
1-3/C #12

(B) INPLACE WOOD (S.O.P.)  
(POWER CABLES TO SERVICE  
CABINET, VIA H.H. 11, BY AEC)

(4) PA90 POLE FOUNDATION  
TYPE PA90-A-9.1-D12-3 (DAVIT AT 350 DEG.)  
LUMINAIRE-200 WATT HPS  
2-ONE WAY SIGNALS-OVERHEAD (0' AND  
10' 10" FROM LEFT END OF MAST ARM)  
TYPE 30A-POLE MOUNTED 90 DEG.  
TYPE 10B-POLE MOUNTED 270 DEG.  
2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4B)  
TYPE "D" SIGN PANEL (10' X 1.5')  
OVERHEAD (D-3)  
ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (#6)  
EXTEND INTO H.H. 8:  
3" PVC  
2-12/C #12  
2-3/C #12  
1-3/C #20  
1-3/C #12 (LUM)

(A) EQUIPMENT PAD - SEE DETAILS  
CONTROLLER AND CABINET  
SERVICE CABINET

CONTROLLER CABINET TO H.H. 1:  
4" RSC  
3-12/C #12  
2-3/C #12  
1-3/C #20  
2-2/C #14  
1-6 PR.#19 (INTERCONNECT)

CONTROLLER CABINET TO H.H. 10:  
4" RSC  
3-12/C #12  
4-3/C #12  
2-3/C #20  
7-2/C #14

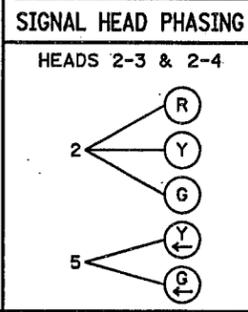
SERVICE CABINET TO H.H. 10:  
2" RSC  
2-3/C #12 (LUM)

SERVICE CABINET TO H.H. 11:  
2" RSC  
(FOR SERVICE BY AEC)

BETWEEN SERVICE CABINET  
AND CONTROLLER CABINET:  
2" RSC  
2-1/C #6  
1-1/C #6 BR. GR.

STUB OUT 2" RSC FROM  
H.H. 11 (FOR SERVICE BY AEC)

STUB OUT 1-2" RSC AND 1-3" RSC  
FROM CONTROLLER CABINET TO SOUTH  
(THREAD AND CAP BOTH ENDS- FOR  
FUTURE USE)



**SIGNAL FACE CHART**

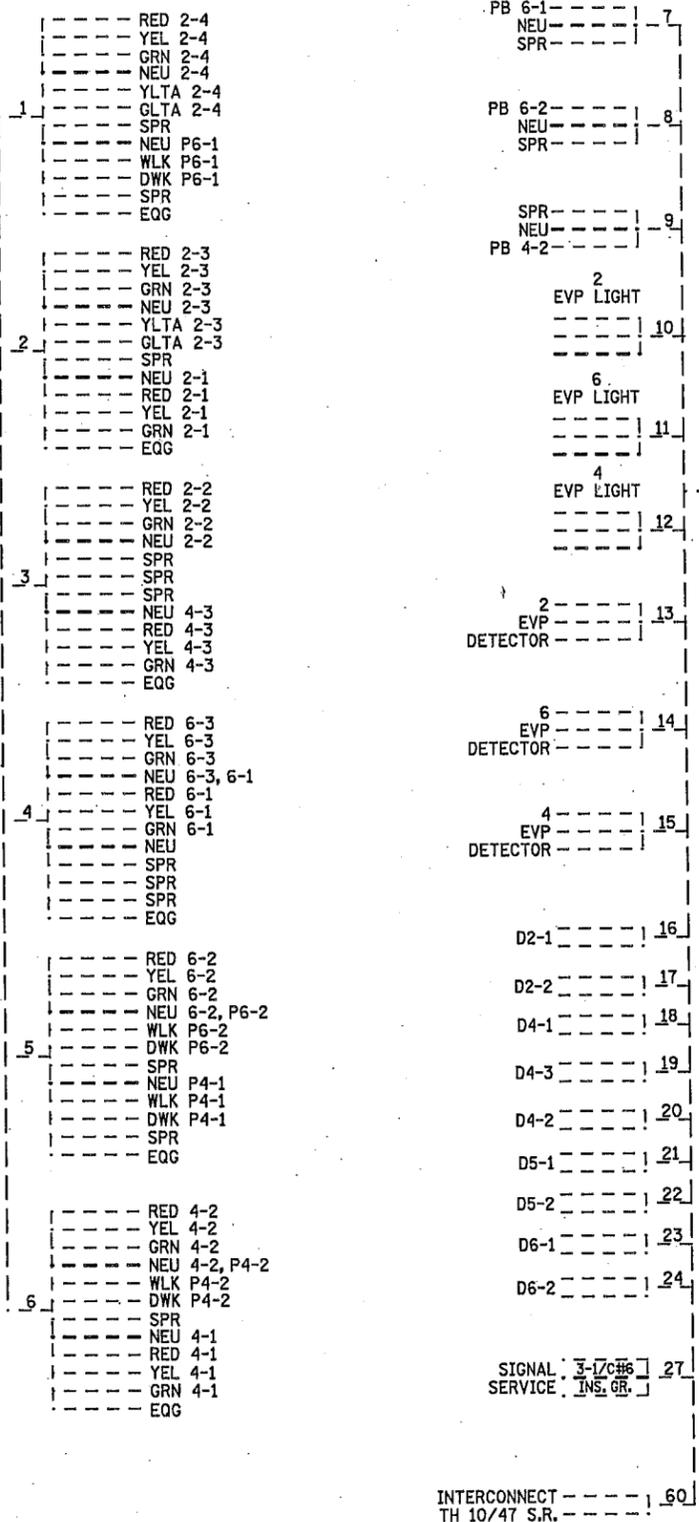
FACE	R	Y	G	Y	G
2-1, 2-2	○	○	○		
2-3, 2-4	○	○	○	←	←
4-1, 4-2, 4-3	○	○	○		
6-1, 6-2, 6-3	○	○	○		

BY	DATE	REVISIONS	SYSTEM ID: 22229	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
DMC		AS BUILTS	METER ADDRESS:		CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
			MASTER ID:	T.E.	STATE PROJ. NO.	(T.H. 10)	SHEET NO.	1 OF 2 SHEETS

PLOTTED/REVISED: 1/14/2013

DISTRICT: METRO  
IPLOT NAME: wiring diagram  
PATH & FILENAME: IP\_PWP-dot780205N 22229\_sgl.dgn

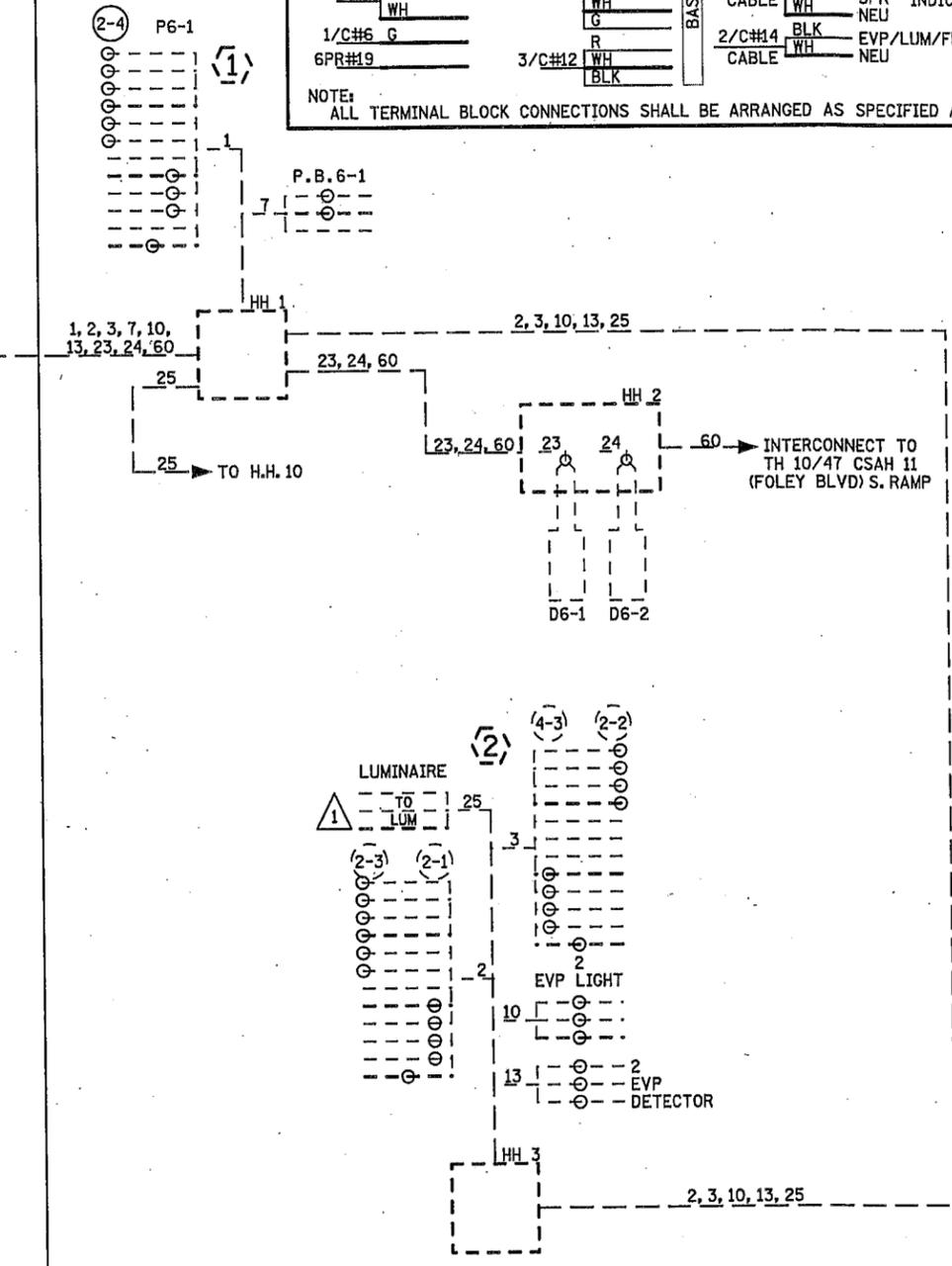
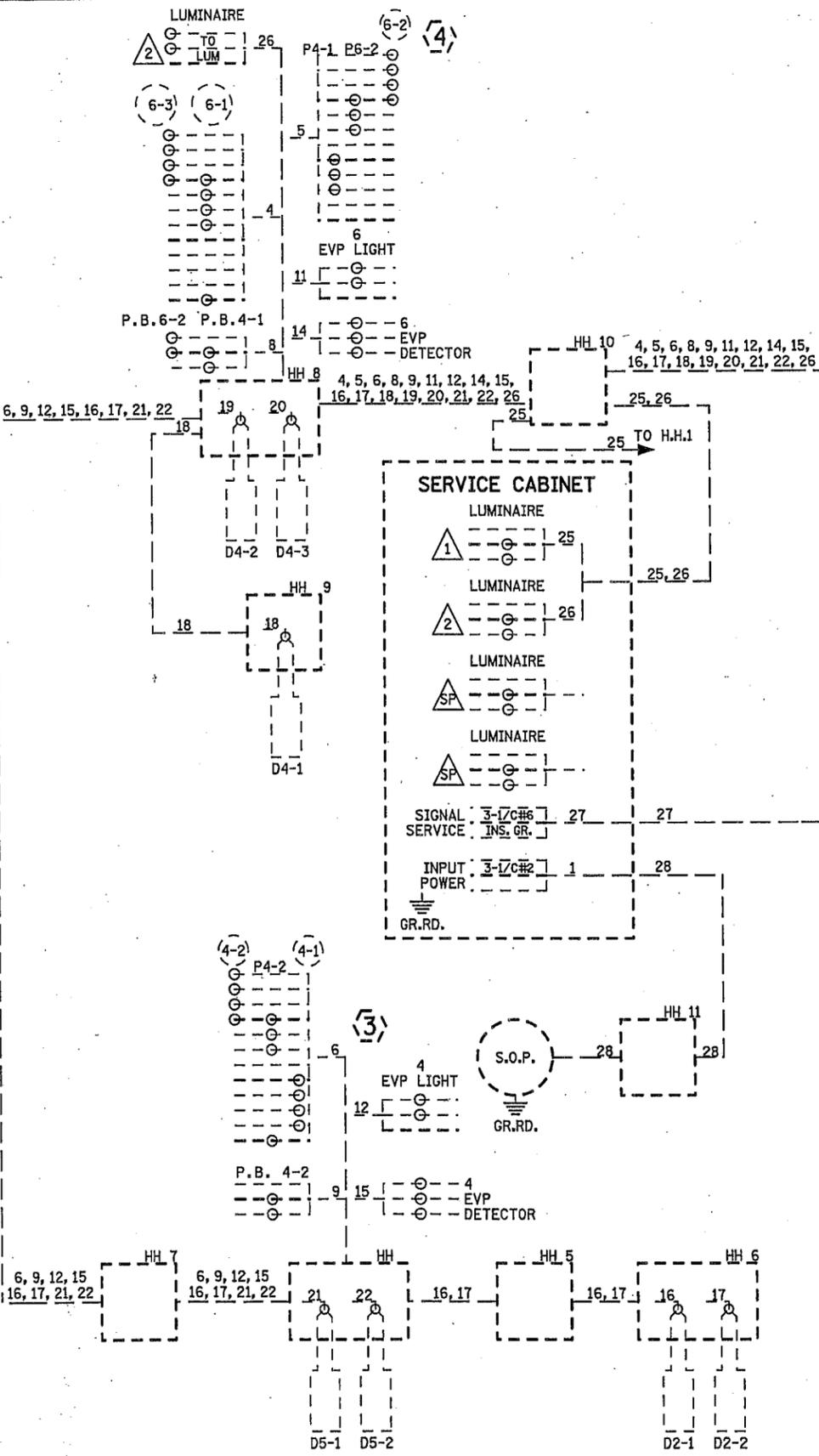
### CONTROLLER CABINET



### CONDUCTOR COLOR CODE (12 GAUGE)

TO SIGNAL CABINET		TO DEVICE	
3/C#20	R OR O WH OR YEL BLK OR BL	R O BL WH R/BLK O/BLK BL/BLK WH/BLK	R O BL WH Y BLK BRN
2/C#14	BLK CLR OR WH	R O BLK BLK/WH G/BLK G	R O BL WH BLK WH BLK WH
3-1/C#2	WH INPUT BLK POWER	R O BLK BLK/WH G/BLK G	R O BL WH BLK WH BLK WH
3-1/C#6	WH SIGNAL BLK SERVICE	R O BLK WH G BLK	R O BL WH BLK WH BLK WH
2-1/C	BLK WH	R O BLK WH G BLK	R O BL WH BLK WH BLK WH
1/C#6	G	R O BLK WH G BLK	R O BL WH BLK WH BLK WH
6PR#19		R O BLK WH G BLK	R O BL WH BLK WH BLK WH

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



BY	DATE	REVISIONS	SYSTEM ID: 22229	T.E.	S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
DMC		AS BUILTS	METER ADDRESS:		CERTIFIED BY	LIC. NO.		DATE:
			MASTER ID:	T.E.	STATE PROJ. NO.	(T.H. 10)	SHEET NO.	2 OF 2 SHEETS

INTERSECTION LAYOUT  
TH 10 @ CSAH 11 (FOLEY BLVD) & 99TH AVE NW  
IN COON RAPIDS, ANOKA COUNTY