

LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION
D1-1,D5-1	2-6 X 6	20',50'
D1-2,D5-2	2-6 X 6	5',35'
D2-1,D2-2	6 X 6	180'
D3-1	2-6 X 6	20',50'
D3-2	2-6 X 6	5',35'
D4-1,D4-2	6 X 6	5',20'
D6-1,D6-2	6 X 6	180'
D3-3	6 X 6	120'
D3-4	2-6 X 6	5',20'

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

② 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 17'
2-ANGLE MOUNT SIGNAL AT 90 AND 180 DEG
2-ANGLE MOUNT C.D. PED IND AT 90 AND 180 DEG
1-APS PB AND SIGN (LT ARROW) (PB4-1)
1-ONE WAY EVP DETECTOR AND CONFIRMATORY
LIGHT (PHASE 6+1)
LUM-250W HPS
1-TYPE D SIGN
1-SIGN R6-1L ONE WAY
1-SIGN R6-1R ONE WAY
3" PVC TO HH 5:
3-12/C #14
1-3/C #14
1-3/C #14 (LUM)
1-2/C #14
1-3/C #20
1-1/C #6 INS. GR.

APS PED PB STA (PB6-2)
1-APS PB AND SIGN (RT ARROW)
EXTEND INTO HH 6:
1 1/4" PVC
1-2/C #14

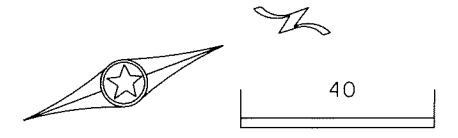
③ PA85 POLE FOUNDATION
TYPE PA85-A-25
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
2-ANGLE MOUNT SIGNAL AT 90 AND 180 DEG
1-ANGLE MOUNT C.D. PED IND AT 90 DEG
1-ONE WAY EVP DETECTOR AND CONFIRMATORY
LIGHT (PHASE 3)
1-TYPE D SIGN
1-SIGN R9-3a (NO PED) FACING POLE 4
3" PVC TO HH 7:
3-12/C #14
1-3/C #14
1-3/C #20
1-1/C #6 INS. GR.
APS PED PB STA (PB6-1)
1-APS PB AND SIGN (LT ARROW)
EXTEND INTO HH 7:
1 1/4" PVC
1-2/C #14

EQUIPMENT PAD
SERVICE CABINET
CONTROLLER AND CABINET
4" RSC TO HH 1A:
5-12/C #14
1-4/C #14
2-3/C #14
10-2/C #14
2-3/C #20
1-1/C #6 INS. GR.
1-6PR #19
3-1/C #1/0
1" RSC - STUBBED OUT
2-1/C #1/0 BR GR.
SERVICE CABINET TO HH 15B:
3" RSC
3-3/C #14
2-2/C #10
SERVICE CABINET TO CONTROLLER CABINET
2" RSC
2-1/C #6
1-1/C #6 BR. GR.

SIGNAL FACE CHART

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

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

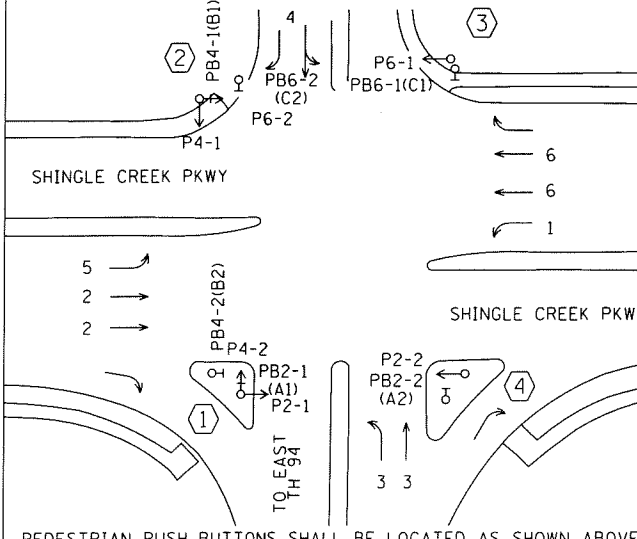


SCALE IN FEET

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

① SOP-GROUND MOUNTED TRANSFORMER (BY XCEL)
SHARED EQUIPMENT PAD
SERVICE CABINET
STEP DOWN TRANSFORMER,
CABINET AND CONTROLLER.

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 7 PHASE, WITH PHASES 1 & 5 BEING A FLASHING YELLOW ARROW BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.
- PHASES 3 AND 4 OPERATE AS SPLIT PHASE SEQUENTIAL.

BY	DATE	REVISIONS
EJA	4-23-12	TE 5425-CHANGED TO SPLIT PHASE OPERATION (3 & 4)

SYSTEM ID: 21304 T.E. 5425
METER ADDRESS: SHINGLE CREEK PKWY
MASTER ID: T.E.

INTERSECTION LAYOUT
TRAFFIC CONTROL SIGNAL SYSTEM
TH 94 (SOUTH RAMP) AT SHINGLE CREEK PKWY
BROOKLYN CENTER, HENNEPIN CO.

S.A.P. NO. 109-109-032
DRAWN BY: BAM CKD BY: CDB DATE: 6/3/11
CERTIFIED BY: *Michael P. Gubinski* L.I.C. NO. 19863 DATE: 6/3/11
STATE PROJ. NO. 2781-417 (T.H.94) SHEET NO. 11 OF 21 SHEETS

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

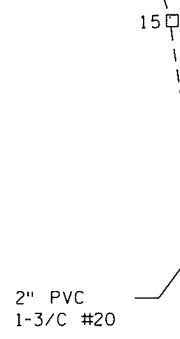
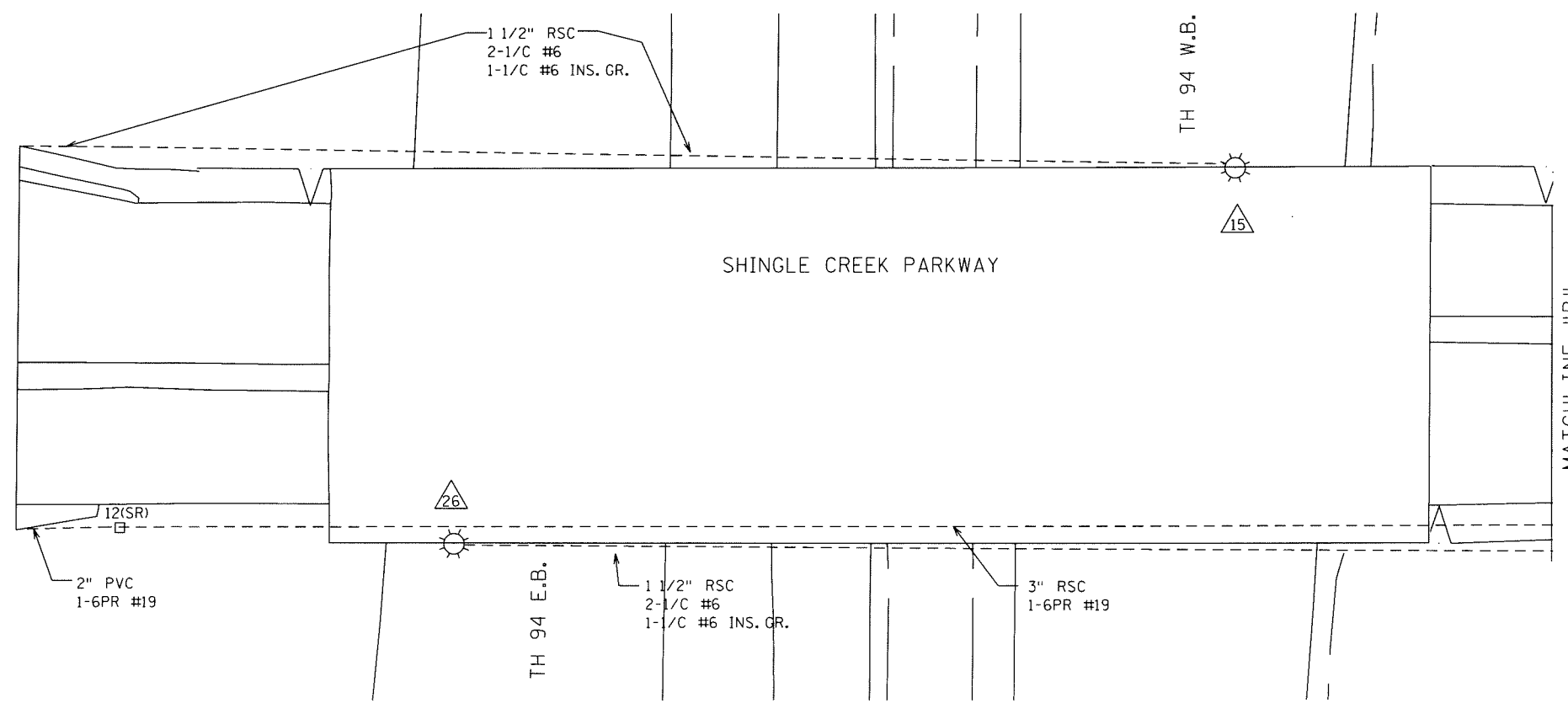
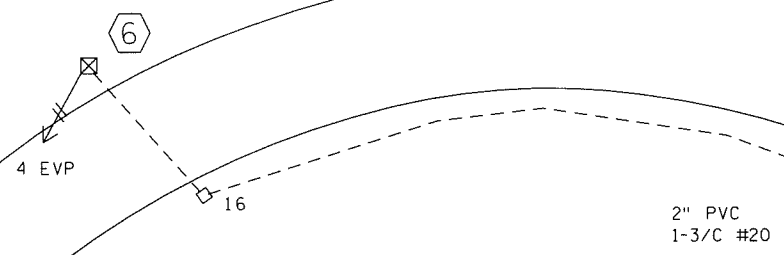
MATCHLINE "C"

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 PATH & FILENAME: \$\$\$@PATH\$FILENAME@\$\$\$



6 PEDESTAL FOUNDATION
 14' PEDESTAL POLE AND BASE
 (13' POLE PLUS BASE)
 1-ONE WAY EVP DETECTOR (PHASE 4)
 EXTEND INTO HH 16:
 3" PVC
 1-3/4" #20

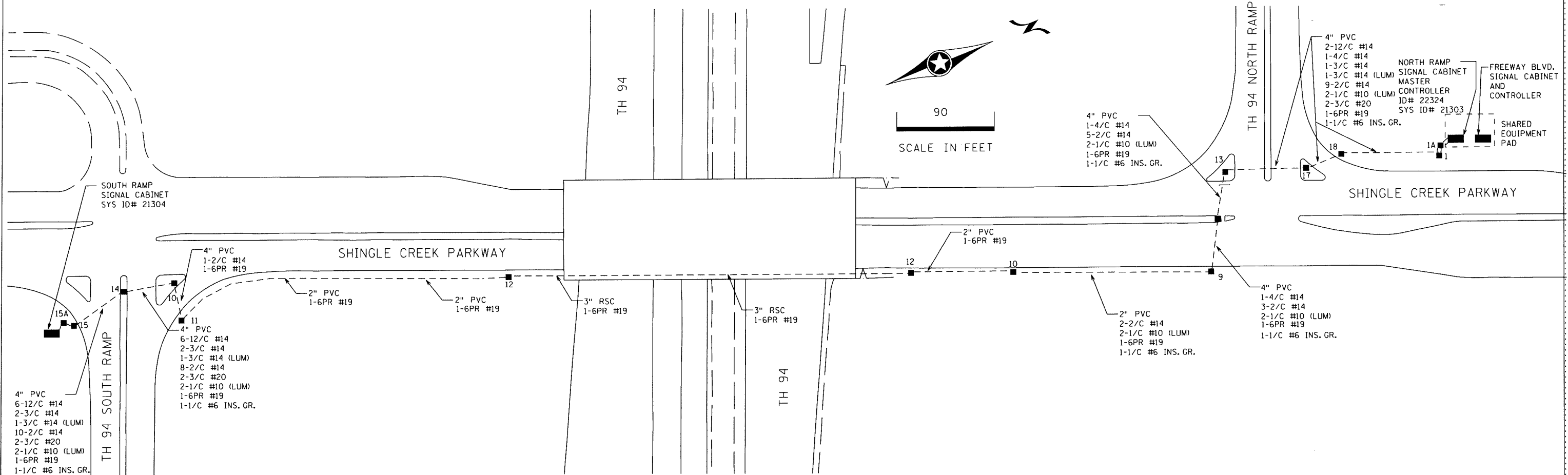


BY	DATE	REVISIONS	SYSTEM ID: 21303	T.E. 5178	S.A.P. NO. 109-109-032	DRAWN BY: BAM	CKD BY: CDB	DATE: 8/31/10
EJA	4-23-12	AS-BUILT PLAN SP 2781-417	METER ADDRESS: SHINGLE CREEK PKWY	T.E.	CERTIFIED BY: <i>Michael P. Gubinsky</i>	LIC. NO. 19863	DATE: 9/2/10	
			MASTER ID: 22324	T.E.	STATE PROJ. NO. 2781-417 (T.H. 94) SHEET NO. 10 OF 21 SHEETS			

MATCHLINES
 TRAFFIC CONTROL SIGNAL SYSTEMS
 TH 94 N & S RAMPS AT SHINGLE CREEK PKWY
 BROOKLYN CENTER, HENNEPIN CO.

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

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



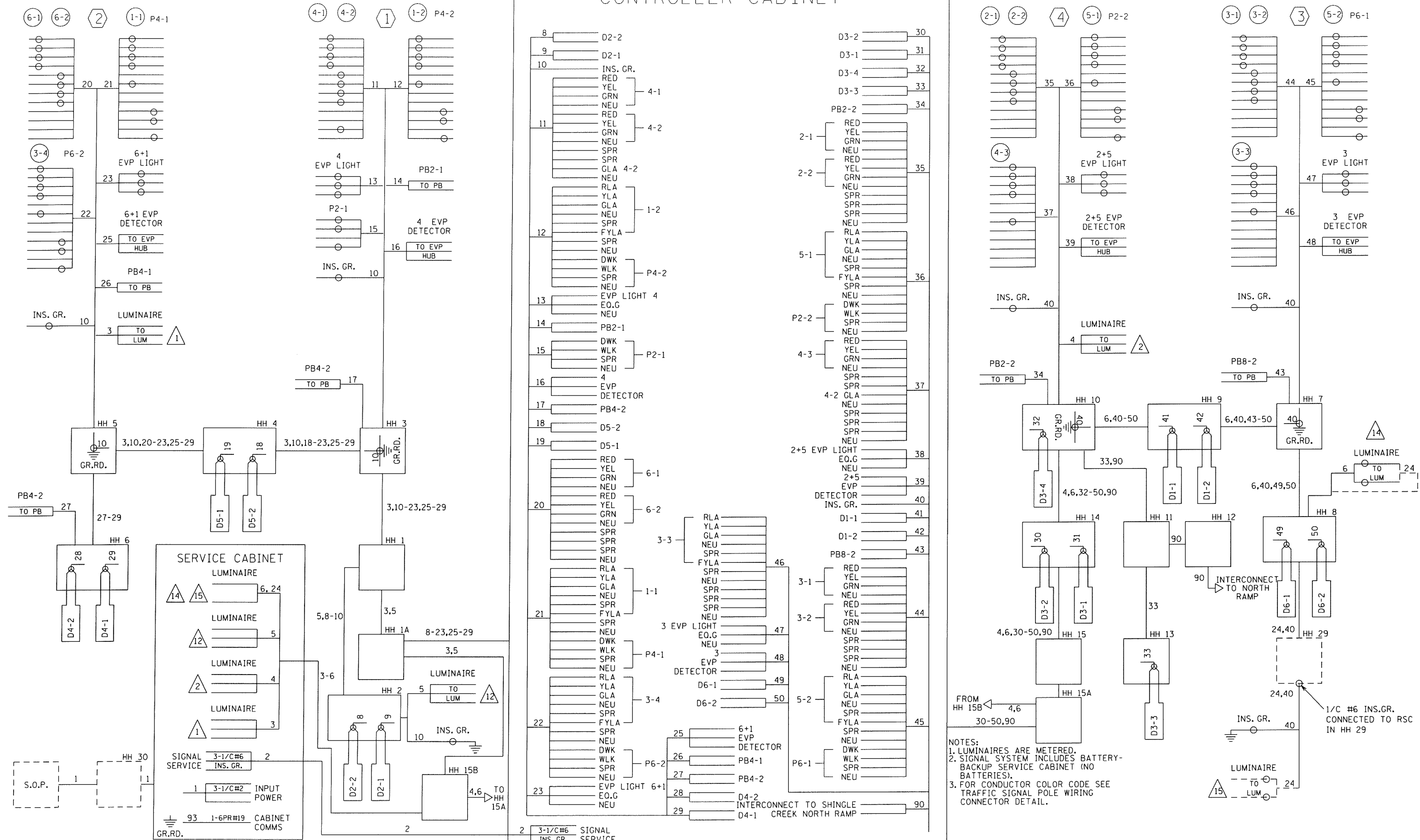
BY	DATE	REVISIONS
EJA	4-23-12	AS-BUILT PLAN SP 2781-417

SYSTEM ID: 21303,21304,21302 T.E.
 METER ADDRESS:
 MASTER ID: 22324 T.E.

INTERCONNECT LAYOUT
 TH 94 NORTH AND SOUTH RAMPS
 ON SHINGLE CREEK BLVD.
 BROOKLYN CENTER, HENNEPIN CO.

S.A.P. NO. _____
 DRAWN BY: BAM CKD BY: CDB DATE: 9/1/10
 CERTIFIED BY: *Michael P. Gubinsky* LIC. NO. 19863 DATE: 9/2/10
 STATE PROJ. NO. 2781-417 (T.H. 94) SHEET NO. 15 OF 21 SHEETS

CONTROLLER CABINET



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

PLOTTED/REVISED: \$\$\$@DATE\$\$\$\$
 D:\SIGNAL : \$\$\$@SIGNAL\$\$\$\$
 I\PLOT NAME: \$\$\$@PLOT\$NAME\$\$\$
 PATH & FILENAME: \$\$\$@PATH\$FILENAME\$\$\$

BY	DATE	REVISIONS	SYSTEM ID: 21304	T.E. 5425	S.A.P. NO. 109-109-032	DRAWN BY: BAM	CKD BY: CDB	DATE: 8/31/10
EJA	4-23-12	TE 5425- CHANGED TO SPLIT PHASE OPERATION (3 & 4)	METER ADDRESS: SHINGLE CREEK PKWY		CERTIFIED BY: <i>Michael P. Gubinsky</i>	LIC. NO. 19863	DATE: 9/10/10	
			MASTER ID:	T.E.	STATE PROJ. NO. 2781-417 (T.H.94)	SHEET NO. 13	OF 21	SHEETS