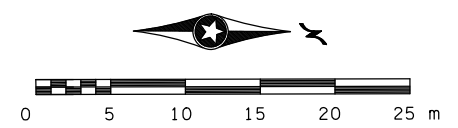


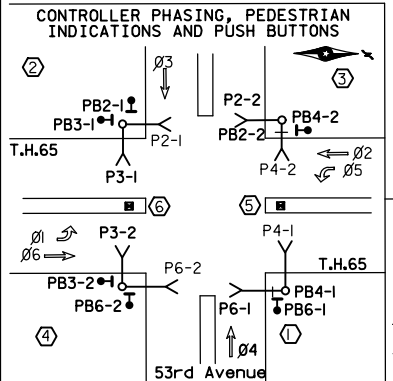
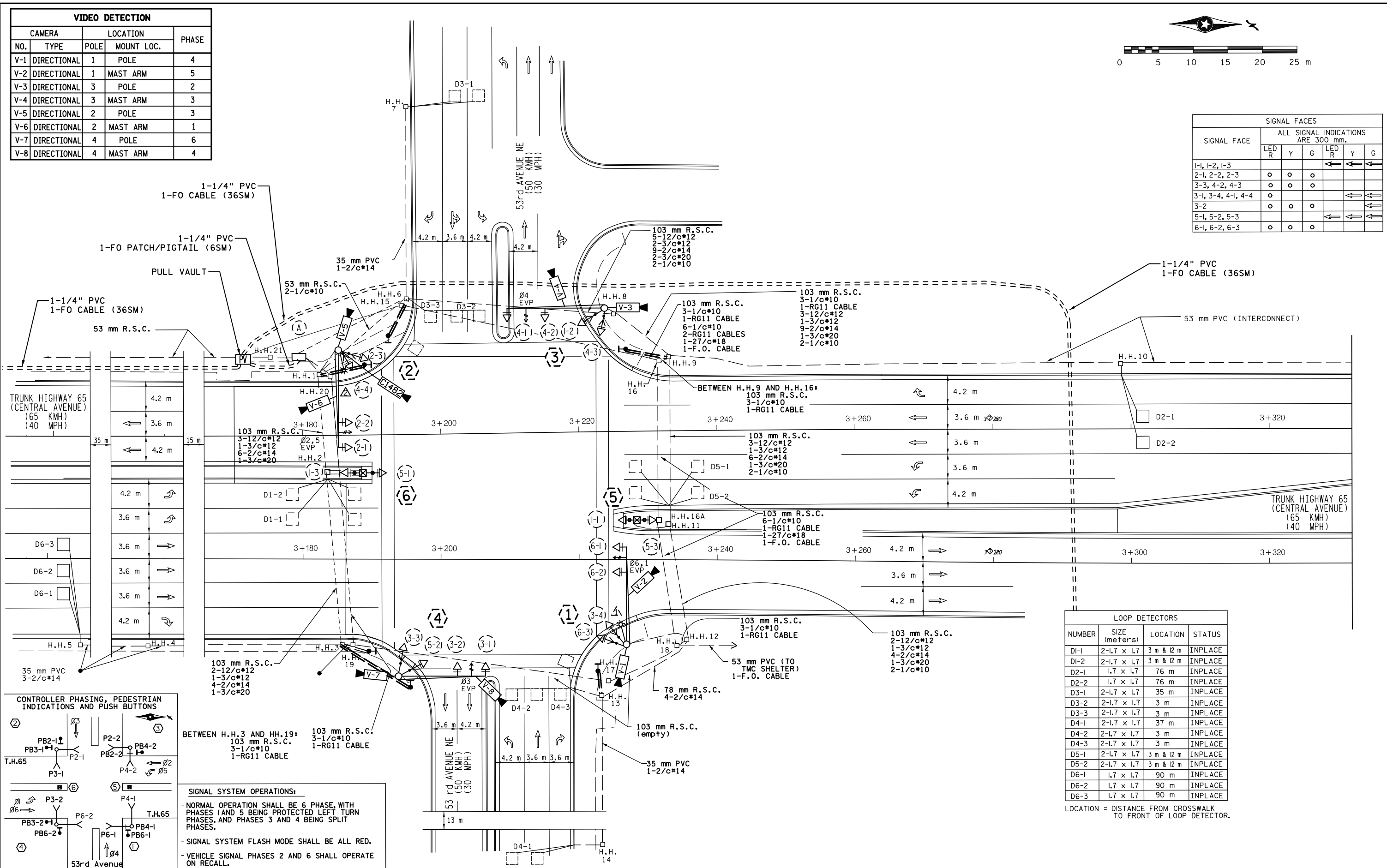
PLOTTED/REVISED: 21-DEC-2021

DISTRICT *: Metro
 PLOT NAME: LAYOUT
 FILENAME: Projects\DM_FOS\06500000\Traffic\Signals\7.81\2156_53RD_AVE_NE_1735530\2156L_sgl.dgn

VIDEO DETECTION				
CAMERA		LOCATION		PHASE
NO.	TYPE	POLE	MOUNT LOC.	
V-1	DIRECTIONAL	1	POLE	4
V-2	DIRECTIONAL	1	MAST ARM	5
V-3	DIRECTIONAL	3	POLE	2
V-4	DIRECTIONAL	3	MAST ARM	3
V-5	DIRECTIONAL	2	POLE	3
V-6	DIRECTIONAL	2	MAST ARM	1
V-7	DIRECTIONAL	4	POLE	6
V-8	DIRECTIONAL	4	MAST ARM	4



SIGNAL FACE	SIGNAL INDICATIONS ARE 300 mm.					
	LED R	Y	G	LED R	Y	G
1-1, 1-2, 1-3				←	←	←
2-1, 2-2, 2-3	○	○	○			
3-3, 4-2, 4-3	○	○	○			
3-1, 3-4, 4-1, 4-4	○			←	←	←
3-2	○	○	○			
5-1, 5-2, 5-3				←	←	←
6-1, 6-2, 6-3	○	○	○			



SIGNAL SYSTEM OPERATIONS:

- NORMAL OPERATION SHALL BE 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED LEFT TURN PHASES, AND PHASES 3 AND 4 BEING SPLIT TURN PHASES.
- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
- VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

LOOP DETECTORS				
NUMBER	SIZE (meters)	LOCATION	STATUS	
DI-1	2-1.7 x 1.7	3 m & 12 m	INPLACE	
DI-2	2-1.7 x 1.7	3 m & 12 m	INPLACE	
D2-1	1.7 x 1.7	76 m	INPLACE	
D2-2	1.7 x 1.7	76 m	INPLACE	
D3-1	2-1.7 x 1.7	35 m	INPLACE	
D3-2	2-1.7 x 1.7	3 m	INPLACE	
D3-3	2-1.7 x 1.7	3 m	INPLACE	
D4-1	2-1.7 x 1.7	37 m	INPLACE	
D4-2	2-1.7 x 1.7	3 m	INPLACE	
D4-3	2-1.7 x 1.7	3 m	INPLACE	
D5-1	2-1.7 x 1.7	3 m & 12 m	INPLACE	
D5-2	2-1.7 x 1.7	3 m & 12 m	INPLACE	
D6-1	1.7 x 1.7	90 m	INPLACE	
D6-2	1.7 x 1.7	90 m	INPLACE	
D6-3	1.7 x 1.7	90 m	INPLACE	

LOCATION = DISTANCE FROM CROSSWALK TO FRONT OF LOOP DETECTOR.

BY: SJK	DATE: 12/21/21	OPERATION PLAN	REVISIONS:	SYSTEM ID: 1735530	T.E.	METER ADDRESS: 5305 US HIGHWAY 65	OLD SYSTEM ID: 21156	S.A.P. NO.	CERTIFIED BY: _____	LICENSED PROFESSIONAL ENGINEER	LIC. NO. _____	DATE: _____	STATE PROJ. NO. 0207-100 (T.H.65)	SHEET NO. 1 OF 3 SHEETS
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PLOTTED/REVISED: 21-DEC-2021

DISTRICT *: Metro
PLOT NAME: POLE NOTES
FILENAME: Projects\DM_FOS\065\0000\Traffic\Signals\7.81_21\56_53RD_AVE_NE_1735530\21\56L_sjgldgn

① A100 POLE FOUNDATION
 TYPE A100-A-13.7-D12-3 (AT 355°)
 LUMINAIRE-200 WATT H.P.S. WITH
 PEC AND CHECK SWITCH
 2-ONE WAY SIGNALS-OVERHEAD
 2-VIDEO DETECTION CAMERAS
 2-TYPE 10B-POLE MOUNTED 0° AND 270°
 2-C.D. PED HEAD IND AT 0 AND 270 DEG
 1-APS PB AND SIGN (PB4-1) (LT ARROW)
 ONE WAY EVP DETECTOR AND LIGHT-
 OVERHEAD (PHASES 6,1)
 WIRELESS COMMUNICATION EQUIPMENT
 TYPE "D" SIGN PANEL-OVERHEAD (D-10)
 EXTENDED INTO H.H.12:
 78 mm R.S.C.
 2-12/C#12
 1-3/C#12
 1-3/C#20
 2-1/C#10
 3-1/C#10
 1-RG11 CABLE

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB6-1)
 EXTEND INTO HH 13:
 1" CONDUIT
 1-2/C #14

② A100 POLE FOUNDATION
 TYPE A100-A-13.7-X6-350/CAM 400 EXTENSION
 LUMINAIRE-200 WATT H.P.S. WITH
 PEC AND CHECK SWITCH
 1-VIDEO CAMERA WITH MOUNT (C1482)
 2-ONE WAY SIGNALS-OVERHEAD
 2-VIDEO DETECTION CAMERAS
 2-TYPE 10B-POLE MOUNTED 0° AND 270°
 2-C.D. PED HEAD IND AT 0 AND 270 DEG
 ONE WAY EVP DETECTOR AND LIGHT-
 OVERHEAD (PHASES 2,5)
 EMTRAC DETECTOR ANTENNA (POLE MOUNTED)
 TYPE "D" SIGN PANEL-OVERHEAD
 EXTENDED INTO H.H.1:
 78 mm R.S.C.
 2-12/C#12
 1-3/C#12
 1-3/C#20
 2-1/C#10
 3-1/C#10
 1-RG11 CABLE
 1-COAXIAL (EMTRAC)
 1-7/16" GROUNDING BRAID TO GROUND ROD
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB2-1)
 EXTEND INTO HH 6:
 1" CONDUIT
 1-2/C #14

PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB3-1)
 EXTEND INTO HH 1:
 1" CONDUIT
 1-2/C #14 (FROM POLE 2)

Ⓐ EQUIPMENT PAD
 SIGNAL CONTROLLER AND CABINET
 SERVICE EQUIPMENT - PAD MOUNTED
 SIGNAL CABINET TO H.H.1:
 103 mm R.S.C.
 5-12/C#12
 2-3/C#12
 6-2/C#14
 2-3/C#20
 1-COAXIAL (EMTRAC)
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

SIGNAL CABINET TO H.H.6:
 103 mm R.S.C.
 5-12/C#12
 2-3/C#12
 13-2/C#14
 2-3/C#20

SIGNAL CABINET TO H.H.21:
 78 mm R.S.C.
 METER TO S.O.P.
 53 mm R.S.C.
 3-1/C#2

LOAD CENTER TO SIGNAL CABINET:
 35 mm R.S.C.
 2-1/C#6
 1-1/C#6 Br.Gr.

LOAD CENTER TO H.H.1:
 35 mm R.S.C.
 4-1/C#10

CONTROLLER CABINET TO TMS PULL VAULT:
 1-1/4" PVC
 1-FO PATCH/PIGTAIL (6SM)

③ A100 POLE FOUNDATION
 TYPE A100-A-13.7-X6
 2-ONE WAY SIGNALS-OVERHEAD
 2-VIDEO DETECTION CAMERAS
 2-TYPE 10B-POLE MOUNTED 0° AND 270°
 2-C.D. PED HEAD IND AT 0 AND 270 DEG
 1-APS PB AND SIGN (PB2-2) (LT ARROW)
 ONE WAY EVP DETECTOR AND
 LIGHT-OVERHEAD (PHASE 4)
 EXTENDED INTO H.H.8:
 78 mm R.S.C.
 2-12/C#12
 1-3/C#12
 1-3/C#20
 3-1/C#10
 1-RG11 CABLE

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB4-2)
 EXTEND INTO HH 9:
 1" CONDUIT
 1-2/C #14

④ A100 POLE FOUNDATION
 TYPE A100-A12.2-X12
 2-ONE WAY SIGNALS-OVERHEAD
 2-VIDEO DETECTION CAMERAS
 2-TYPE 10B-POLE MOUNTED 0° AND 270°
 2-C.D. PED HEAD IND AT 0 AND 270 DEG
 ONE WAY EVP DETECTOR AND LIGHT-
 OVERHEAD (PHASE 3)
 EXTENDED INTO H.H.3:
 78 mm R.S.C.
 2-12/C#12
 1-3/C#12
 1-3/C#20
 3-1/C#10
 1-RG11 CABLE

PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB6-2)
 EXTEND INTO HH 3:
 1" CONDUIT
 1-2/C #14

PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB3-2)
 EXTEND INTO HH 3:
 1" CONDUIT
 1-2/C #14 (FROM POLE 4)

⑤, ⑥ PEDESTAL FOUNDATION
 3 m PEDESTAL POLE AND BASE
 TYPE 2A
 EXTEND INTO HH 2 AND 11:
 78 mm RSC

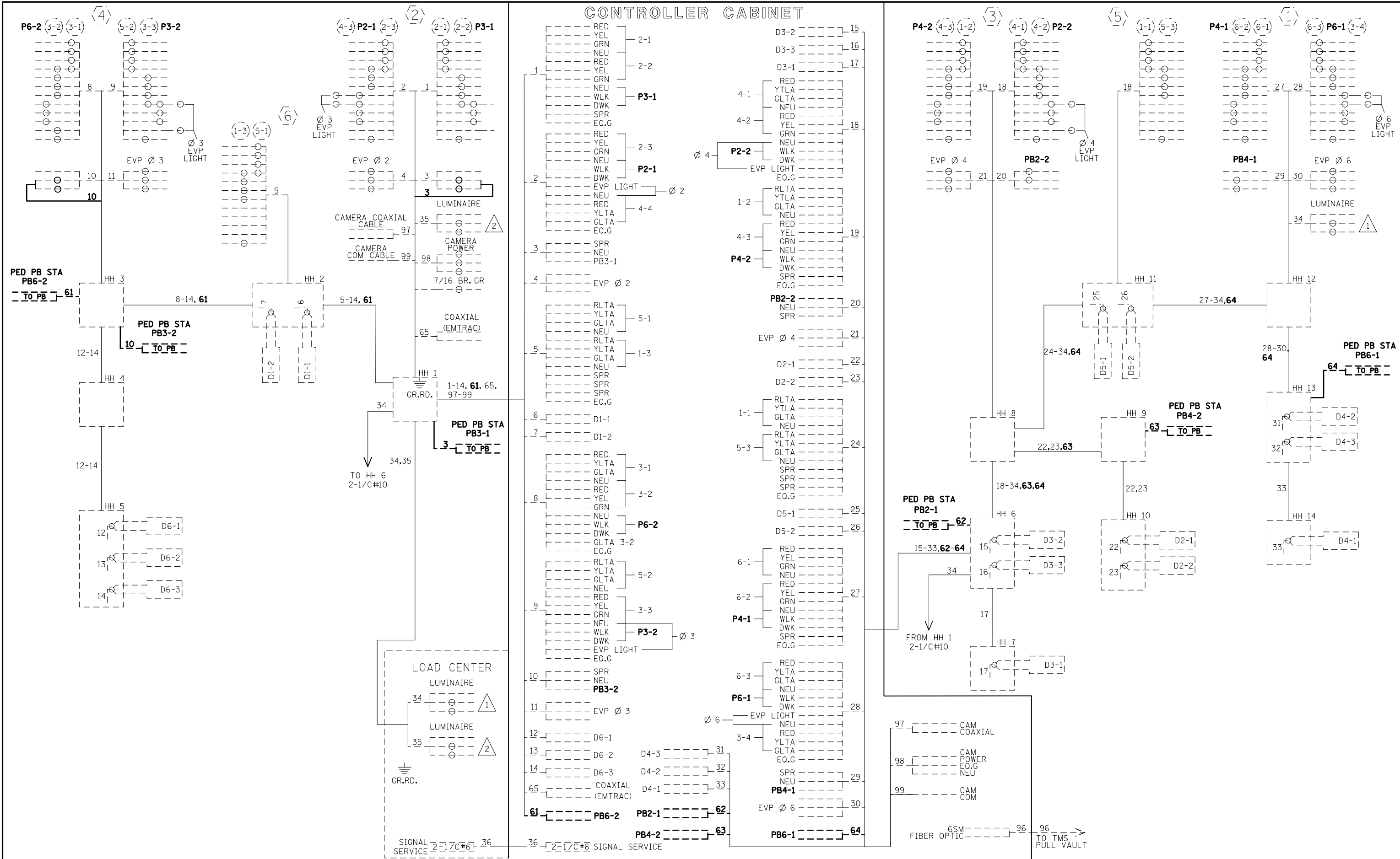
BY	DATE	REVISIONS	SYSTEM ID: 1735530	T.E.
SJK	12/21/21	OPERATION PLAN	METER ADDRESS: 5305 US HIGHWAY 65	
			OLD SYSTEM ID: 21156	

POLE NOTES
 TH 65 AT 53RD AVE
 IN FRIDLEY, HENNEPIN COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ.NO. 0207-100 (T.H.65)		SHEET NO. 2 OF 3 SHEETS	

PLOTTED/REVISED: 21-DEC-2021

DISTRICT *: Metro
PLOT NAME: WIRING DIAGRAM
FILENAME: Projects\DM_FOS\06500000\Traffic\Signals\7.81_21\56_53RD_AVE_NE_1735530\21\56L_sgl.dgn

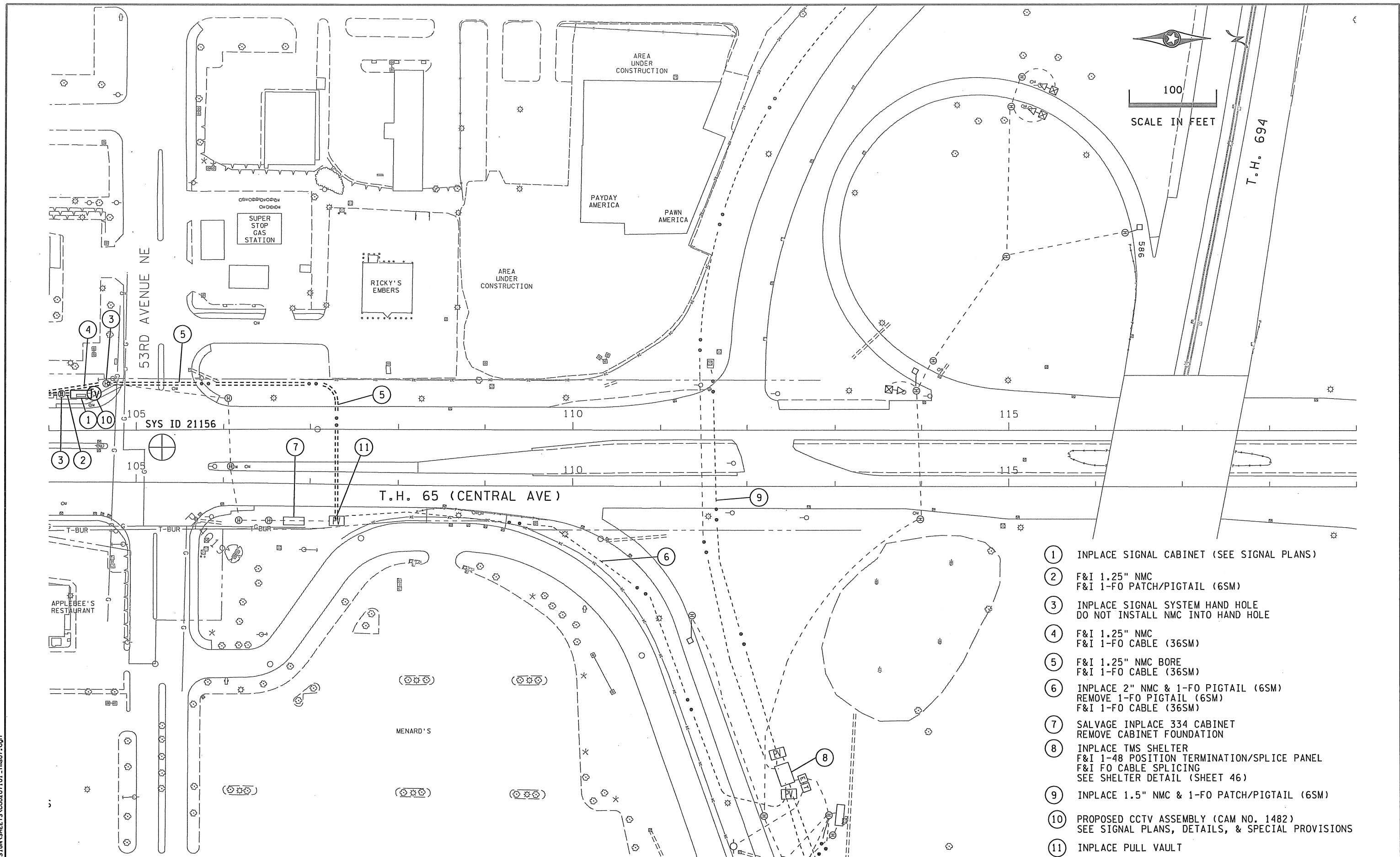


BY	DATE	REVISIONS
SJK	12/21/21	OPERATION PLAN

SYSTEM ID: 1735530 T.E.
 METER ADDRESS: 5305 US HIGHWAY 65
 OLD SYSTEM ID: 21156

WIRING DIAGRAM
TH 65 AT 53RD AVE
IN FRIDLEY, HENNEPIN COUNTY

S.A.P. NO.	DRAWN BY:	CKD BY:	DATE:
CERTIFIED BY _____	LIC. NO. _____	DATE: _____	
STATE PROJ. NO. 0207-100 (T.H.65)		SHEET NO. 3 OF 3 SHEETS	



- ① INPLACE SIGNAL CABINET (SEE SIGNAL PLANS)
- ② F&I 1.25" NMC
F&I 1-FO PATCH/PIGTAIL (6SM)
- ③ INPLACE SIGNAL SYSTEM HAND HOLE
DO NOT INSTALL NMC INTO HAND HOLE
- ④ F&I 1.25" NMC
F&I 1-FO CABLE (36SM)
- ⑤ F&I 1.25" NMC BORE
F&I 1-FO CABLE (36SM)
- ⑥ INPLACE 2" NMC & 1-FO PIGTAIL (6SM)
REMOVE 1-FO PIGTAIL (6SM)
F&I 1-FO CABLE (36SM)
- ⑦ SALVAGE INPLACE 334 CABINET
REMOVE CABINET FOUNDATION
- ⑧ INPLACE TMS SHELTER
F&I 1-48 POSITION TERMINATION/SPLICE PANEL
F&I FO CABLE SPLICING
SEE SHELTER DETAIL (SHEET 46)
- ⑨ INPLACE 1.5" NMC & 1-FO PATCH/PIGTAIL (6SM)
- ⑩ PROPOSED CCTV ASSEMBLY (CAM NO. 1482)
SEE SIGNAL PLANS, DETAILS, & SPECIAL PROVISIONS
- ⑪ INPLACE PULL VAULT

1:14:05 PM
 2/27/2012
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0	02/27/12	AJT	TJJ	KAB	RJC	INITIAL RELEASE FOR CONSTRUCTION
NO	DATE	DRAW	DES	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: **THOMAS JENSEN**
 Date: 02/27/12 License #: 44247

STATE AID PROJECT NO.
 STATE PROJECT NO. **0207-101**
 COUNTY PROJECT NO.
 CITY PROJECT NO.

