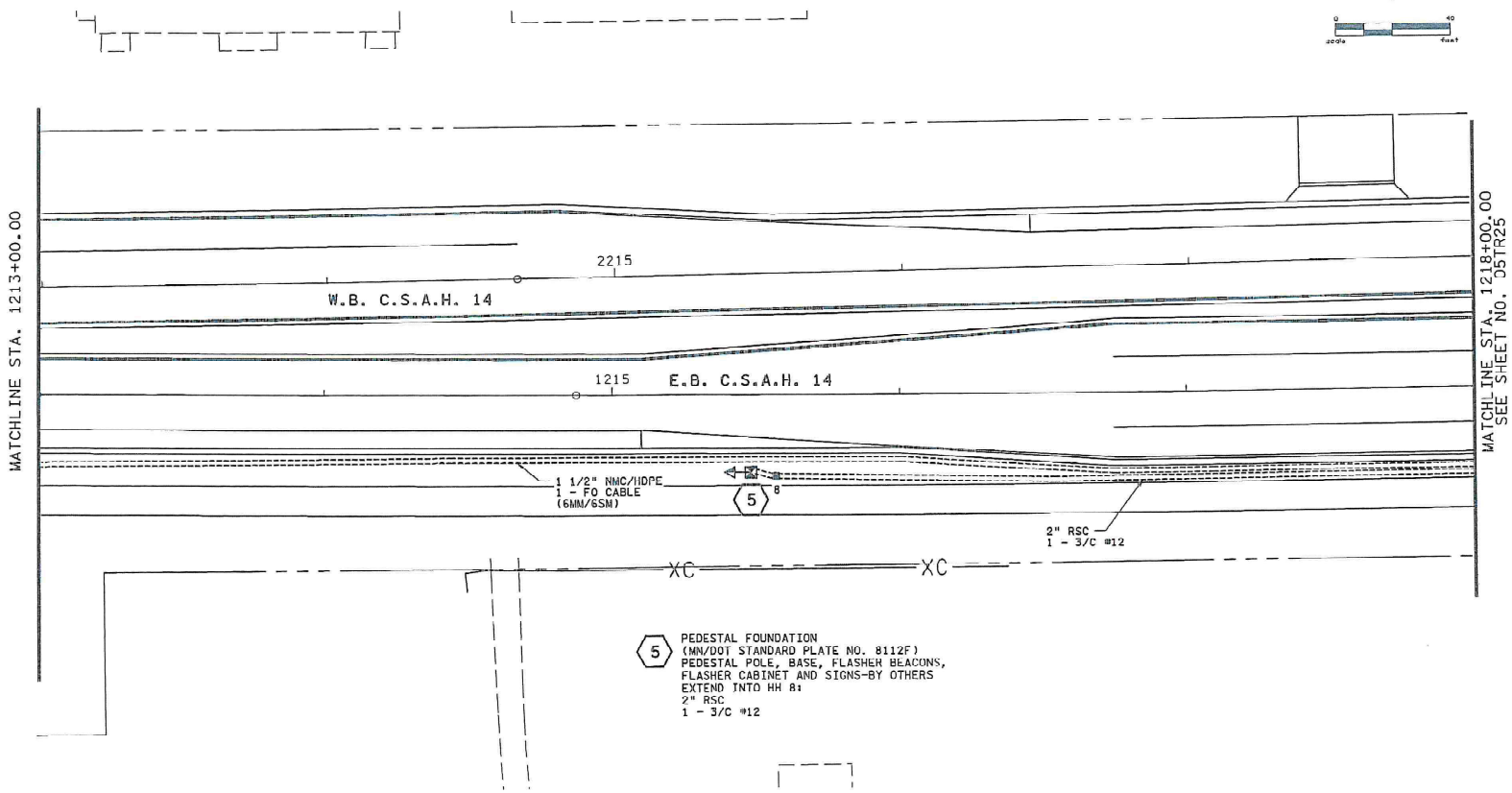
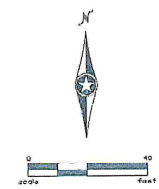


2007
WJF



5 PEDESTAL FOUNDATION
(MNDOT STANDARD PLATE NO. 8112F)
PEDESTAL POLE, BASE, FLASHER BEACONS,
FLASHER CABINET AND SIGNS-BY OTHERS
EXTEND INTO HH 8:
2" RSC
1 - 3/C #12

- NOTES:
1. ALL ITEMS ARE F. & I.
 2. THE EXACT LOCATION OF HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 3. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
 4. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

RELEASED FOR CONSTRUCTION

12/12/2011 9:11:21 AM \\P1\an\DP_5\CD0261434_05\11.dgn

NO	DATE	BY	CHK	APPD

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: GEORGE M. STUEMPF IG

Date: 12/12/11 License # 21349

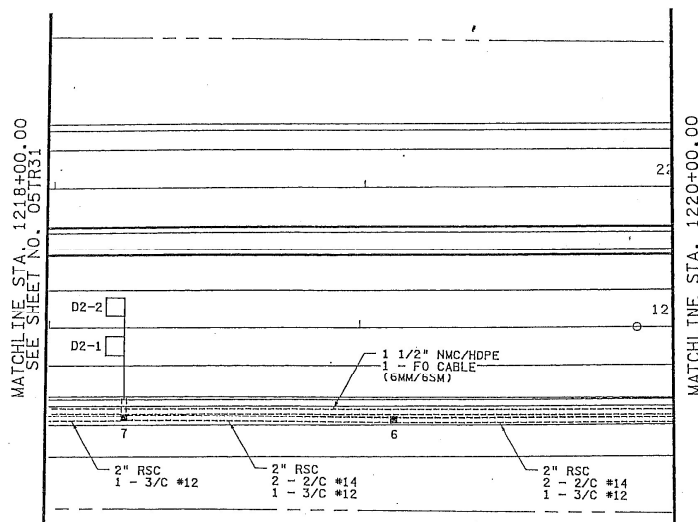
ANOKA COUNTY RELEASED FOR CONSTRUCTION

George M. Stuempf
Date: 12/12/11 ANOKA COUNTY

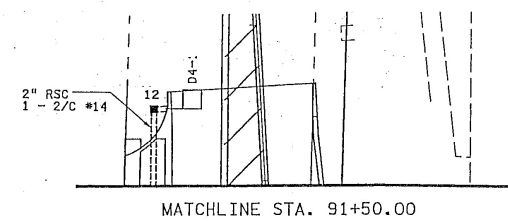


CSAH 14 DESIGN BUILD (SAP 002-614-034)
INTERCONNECT AND SCHOOL FLASHER LAYOUT
(STAGES 2 AND 3)
C.S.A.H. 14
DESIGN PACKAGE #05

SHEET
05TR31
OF
05TR37



- (A) EQUIPMENT PAD - SEE DETAIL
 SERVICE CABINET
 CONTROLLER AND CABINET
 2 - 4" RSC TO HH 1:
 4 - 12/C #14
 2 - 4/C #14
 1 - 3/C #12
 2 - 3/C #14
 2 - 3/C #20
 13 - 2/C #14
 1 - 1/C #6 INS. GR.
 2 - 4" RSC TO HH 21:
 2 - 12/C #14
 2 - 4/C #14
 1 - 3/C #12
 2 - 3/C #14
 2 - 3/C #20
 12 - 2/C #14
 1 - 1/C #6 INS. GR.
 1 1/2" NMC/HDPE TO
 FIBER CABINET WITH:
 1 - FO PIGTAIL
 3" RSC STUBBED OUT
 CAPPED BOTH ENDS
 2" RSC TO SERVICE CABINET
 2 - 1/C #6
 1 - 1/C #6 INS. GR.
 SERVICE CABINET TO HH 1:
 2" RSC
 1 - 3/C #14 (LUM.)
 SERVICE CABINET TO HH 21:
 2" RSC
 1 - 3/C #14 (LUM.)
 SERVICE CABINET TO HH 22:
 2" RSC
 3 - 1/C #2



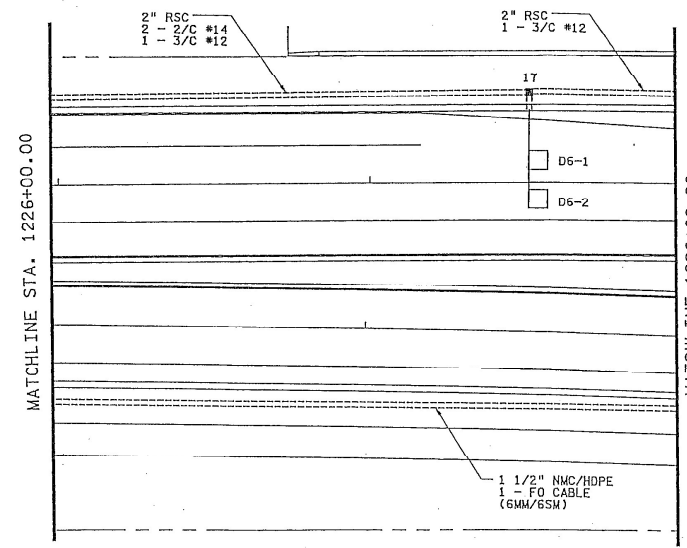
- (B) SOP - GROUND MOUNT TRANSFORMER
 2" RSC TO HH 23:
 3 - 1/C #2

- 1 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
 2-ANGLE MOUNT C. D. PED INDS AT 90 DEG AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-250W HPS
 1-PB AND SIGN (LT ARROW)(PB8-1)
 1-PB AND SIGN (RT ARROW)(PB2-2)
 1-TYPE D SIGN "OAK PARK BLVD/POLK ST"
 1-R6-1L SIGN "ONE WAY"
 1-R6-1R SIGN "ONE WAY"
 EXTEND INTO HH 21:
 3" RSC
 2 - 12/C #14
 2 - 4/C #14
 1 - 3/C #14
 1 - 3/C #14 (LUM.)
 1 - 3/C #20
 2 - 2/C #14
 1 - 1/C #6 INS. GR.

- 3 PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD
 AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
 2-ANGLE MOUNT C. D. PED INDS AT 90 DEG AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 1+6)
 LUMINAIRE-250W HPS
 1-PB AND SIGN (RT ARROW)(PB4-1)
 1-PB AND SIGN (LT ARROW)(PB6-2)
 1-TYPE D SIGN "POLK ST/OAK PARK BLVD"
 1-R6-1L SIGN "ONE WAY"
 1-R6-1R SIGN "ONE WAY"
 EXTEND INTO HH 10:
 3" RSC
 2 - 12/C #14
 2 - 4/C #14
 1 - 3/C #14
 1 - 3/C #14 (LUM.)
 1 - 3/C #20
 2 - 2/C #14
 1 - 1/C #6 INS. GR.

- 2 PA100 POLE FOUNDATION
 TYPE PA100-A-50
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDS AT 90 DEG AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 4+7)
 1-PB AND SIGN (RT ARROW)(PB4-2)
 1-PB AND SIGN (LT ARROW)(PB2-1)
 1-TYPE D SIGN "125TH AVE NE"
 1-R10-12 SIGN
 1-R6-1L SIGN "ONE WAY"
 1-R6-1R SIGN "ONE WAY"
 EXTEND INTO HH 4:
 3" RSC
 2 - 12/C #14
 1 - 3/C #14
 1 - 3/C #20
 2 - 2/C #14
 1 - 1/C #6 INS. GR.

- 4 PA100 POLE FOUNDATION
 TYPE PA100-A-45
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS AT 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDS AT 90 DEG AND 180 DEG
 1-ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASES 3+8)
 1-PB AND SIGN (LT ARROW)(PB6-1)
 1-PB AND SIGN (RT ARROW)(PB8-2)
 1-TYPE D SIGN "125TH AVE NE"
 1-R10-12 SIGN
 1-R6-1L SIGN "ONE WAY"
 1-R6-1R SIGN "ONE WAY"
 EXTEND INTO INP. HH 15:
 3" RSC
 2 - 12/C #14
 1 - 3/C #14
 1 - 3/C #20
 2 - 2/C #14
 1 - 1/C #6 INS. GR.



RELEASED FOR CONSTRUCTION

5/11/2021 AM 11:47:03
 ...VP I on NWP_5VCO0261434_05TR25.dgn

NO	DATE	BY	CHK	APPR

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: **GEORGE M. STUMPF, II**
 Signature: *George M. Stumpf, II*
 Date: **9/13/11** License: **51849**

ANOKA COUNTY RELEASED FOR CONSTRUCTION

George M. Stumpf, II
 Date: **9/13/11** ANOKA COUNTY

SR Consulting Group, Inc.
C.S. McCrossan



CSAH 14 DESIGN BUILD (SAP 002-614-034)
 MATCHLINE LAYOUT
 CSAH 14 & OAK PARK BLVD/POLK ST NE (SYSTEM "E")
 C.S.A.H. 14
 DESIGN PACKAGE #05

SHEET
 05TR25
 OF
 05TR37

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1	2-6x6	10' & 40'	1	1
D1-2	2-6x6	-5' & 25'	1	2
D2-1, D2-2	6x6	400'	1	INPLACE
D3-1	2-6x6	15' & 45'	1	INPLACE
D3-2	2-6x6	0' & 30'	1	INPLACE
D4-1, D8-1	6x6	120'	3	INPLACE
D4-2, D8-2	3-6x6	-10', 5', 20'	7	INPLACE
D5-1	2-6x6	10' & 40'	1	1
D5-2	2-6x6	-5' & 25'	1	2
D6-1, D6-2	6x6	400'	1	INPLACE
D7-1	2-6x6	0' & 30'	1	INPLACE
D7-2	6x6	15'	1	INPLACE
D8-3	2-6x6	0' & 15'	1	INPLACE

LOOP DETECTORS FUNCTIONS:

- 1) CALL AND EXTEND
- 3) EXTEND ONLY
- 7) DELAYED CALL, IMMEDIATE EXTEND

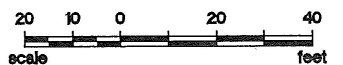
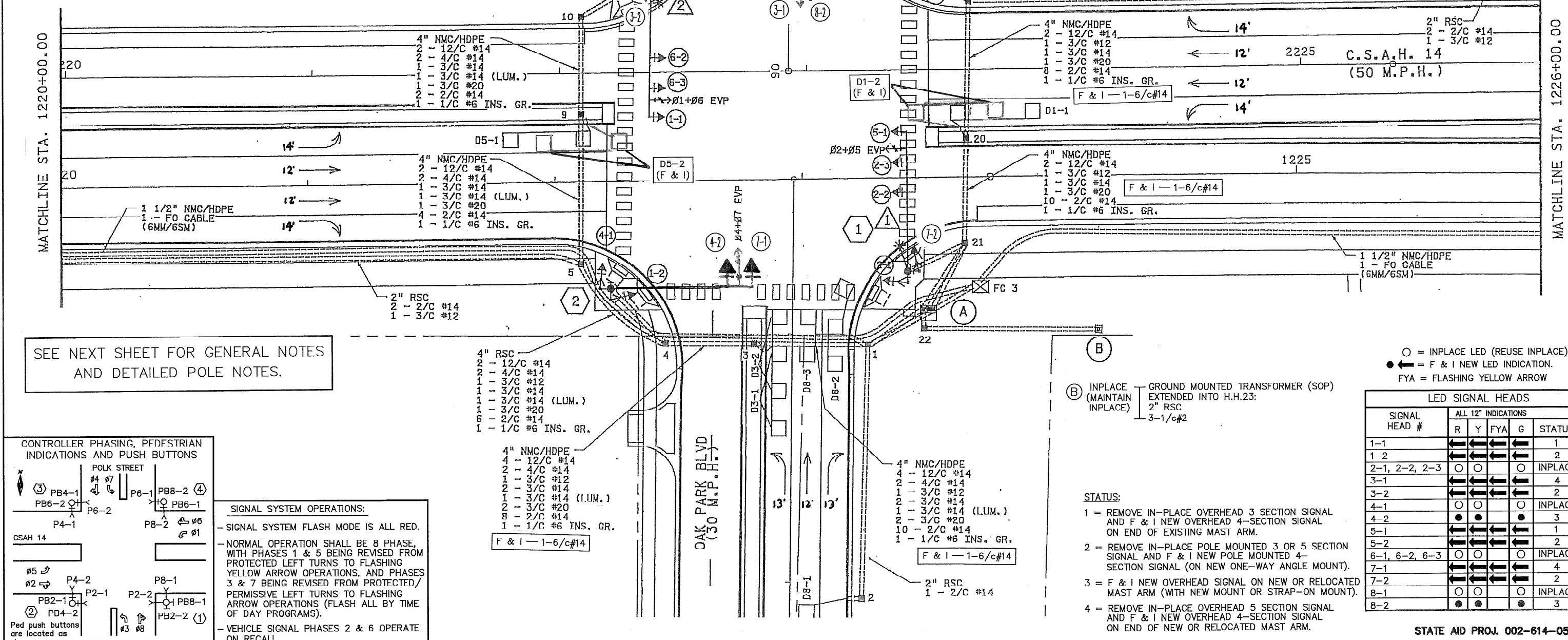
LOOP DETECTOR STATUS:

1 = DETACH EXISTING FRONT (10') LOOP DETECTOR FROM EXISTING LEAD-IN CABLE AND SPLICE TO EXISTING BACK (40') LOOP DETECTOR AND BACK LEAD-IN CABLE (F & I NEW SPLICE KIT). PROTECT EXISTING 10'/40' LOOP DETECTORS IN ROADWAY.

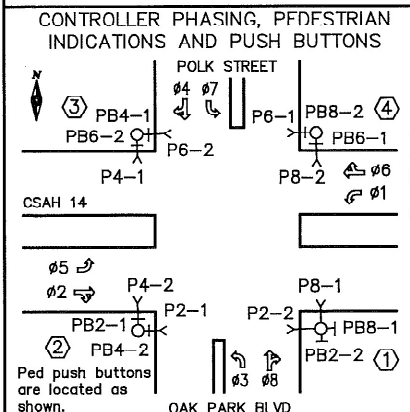
2 = FURNISH & INSTALL NEW PVC LOOP DETECTORS AT -5' FROM STOP BAR. SPLICE THESE NEW LOOP DETECTORS TO EXISTING FRONT LEAD-IN CABLE (F & I NEW SPLICE KIT).

LOCATION = DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.

NOTE: WHEN INSTALLING NEW LOOP DETECTORS D1-2 AND D5-2, ENSURE THAT ALL EXISTING LOOP DETECTOR ROADWAY CONDUITS (TO D1-1 AND D5-1) ARE EXACTLY LOCATED & PROTECTED DURING NEW LOOP INSTALLATION. ANY DAMAGE TO THESE EXISTING LOOP DETECTORS (ALL CONDUITS, WIRING, SPLICE KITS) DUE TO CONTRACTOR LOOP DETECTOR INSTALLATION WORK WILL REQUIRE CONTRACTOR TO FULLY REPLACE THE DAMAGED PVC LOOP DETECTORS ALL AT NO EXPENSE TO THE COUNTY.



SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.



SIGNAL SYSTEM OPERATIONS:

- SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE, WITH PHASES 1 & 5 BEING REVISED FROM PROTECTED LEFT TURNS TO FLASHING YELLOW ARROW OPERATIONS, AND PHASES 3 & 7 BEING REVISED FROM PROTECTED/PERMISSIVE LEFT TURNS TO FLASHING YELLOW ARROW OPERATIONS (FLASH ALL BY TIME OF DAY PROGRAMS).
- VEHICLE SIGNAL PHASES 2 & 6 OPERATE ON RECALL.

○ = INPLACE LED (REUSE INPLACE).
 ● ← = F & I NEW LED INDICATION.
 FYA = FLASHING YELLOW ARROW

SIGNAL HEAD #	ALL 12' INDICATIONS				STATUS
	R	Y	FYA	G	
1-1	←	←	←	←	1
1-2	←	←	←	←	2
2-1, 2-2, 2-3	○	○	○	○	INPLACE
3-1	←	←	←	←	4
3-2	←	←	←	←	2
4-1	○	○	○	○	INPLACE
4-2	●	●	●	●	3
5-1	←	←	←	←	1
5-2	←	←	←	←	2
6-1, 6-2, 6-3	○	○	○	○	INPLACE
7-1	←	←	←	←	4
7-2	←	←	←	←	2
8-1	○	○	○	○	INPLACE
8-2	●	●	●	●	3

- STATUS:**
- 1 = REMOVE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON END OF EXISTING MAST ARM.
 - 2 = REMOVE IN-PLACE POLE MOUNTED 3 OR 5 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4-SECTION SIGNAL (ON NEW ONE-WAY ANGLE MOUNT).
 - 3 = F & I NEW OVERHEAD SIGNAL ON NEW OR RELOCATED MAST ARM (WITH NEW MOUNT OR STRAP-ON MOUNT).
 - 4 = REMOVE IN-PLACE OVERHEAD 5 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL ON END OF NEW OR RELOCATED MAST ARM.

DRAWN BY:	JMG
DESIGNER:	JMG
CHECKED BY:	JMG
DESIGN TEAM	

NO.	BY	DATE	REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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.

John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: August 21, 2020

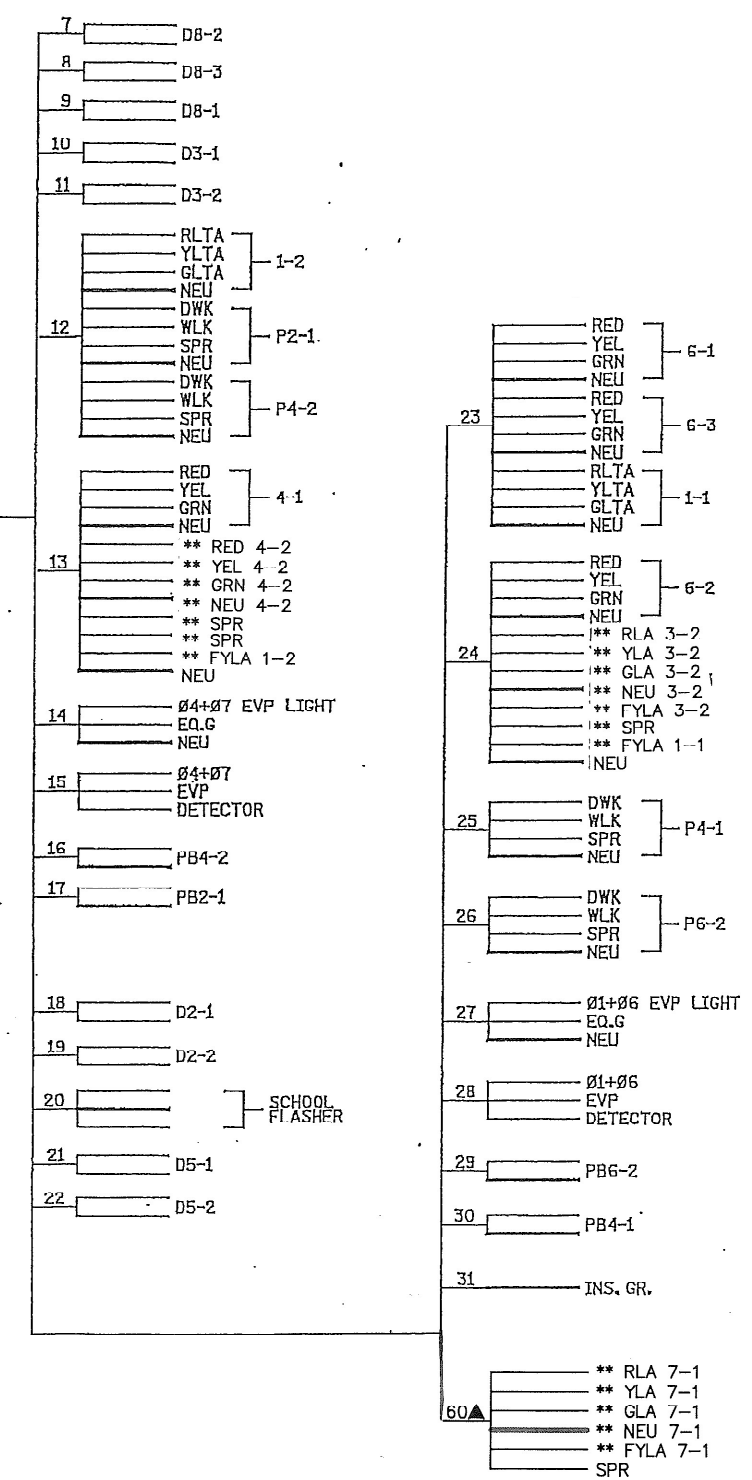
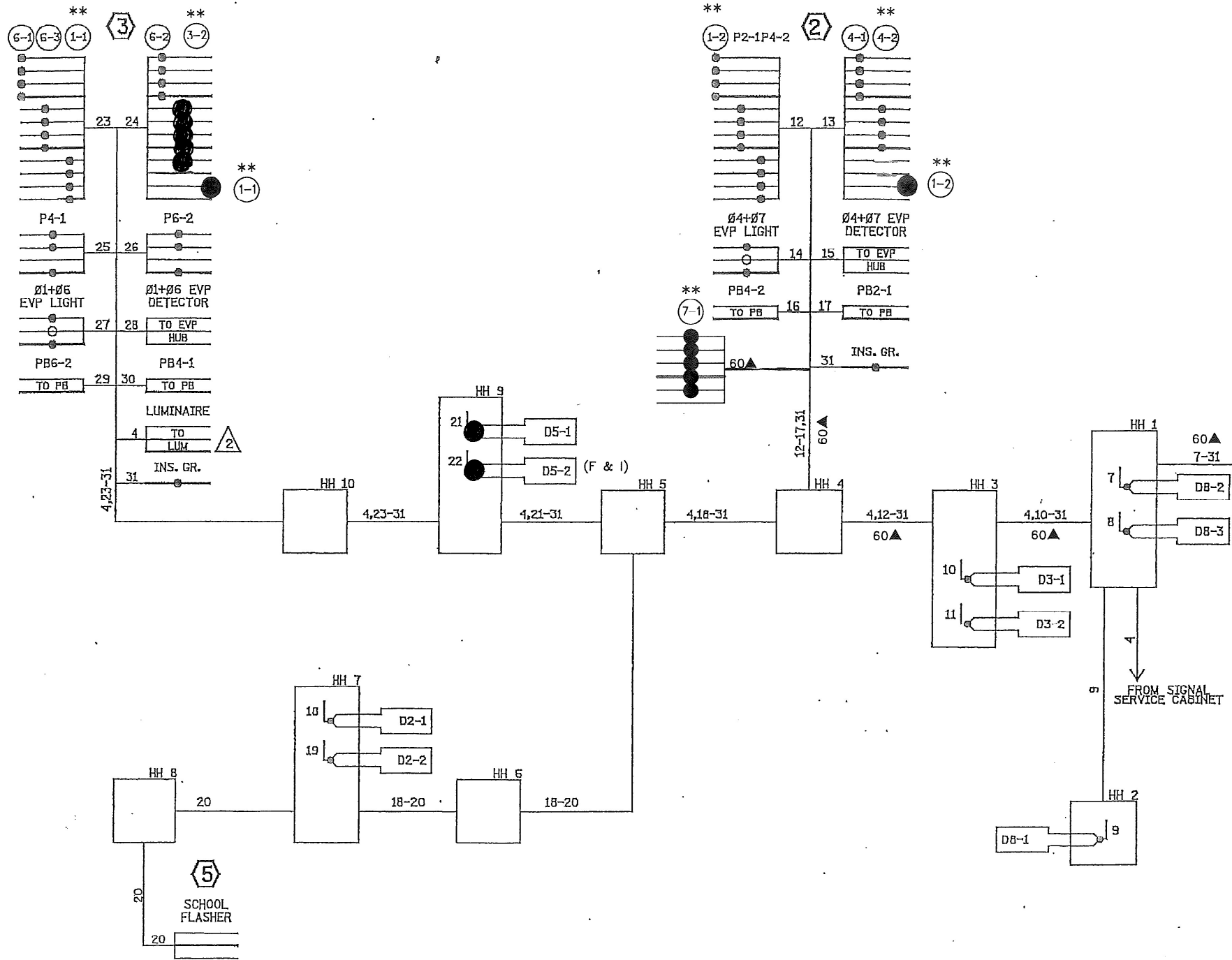
SEH
 PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF BLAINE

REVISE SIGNAL SYSTEM 'A'
INTERSECTION LAYOUT
 CSAH 14 (125TH AVE) AT OAK PARK BLVD/POLK ST

STATE AID PROJ. 002-614-050
 FILE NO. ANOKC 153781
 5
 55

CONTROLLER CABINET



NOTES:
 1) ALL CABLES AND CONDUCTORS ARE INPLACE & SHALL BE REUSED AS SHOWN, EXCEPT WHERE DENOTED BY ▲ (▲ = NEW CABLES AND CONDUCTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF REVISE SIGNAL SYSTEM "A" WORK).
 2) ● DENOTES NEW OR REVISED TERMINATIONS ON INPLACE OR NEW CABLES.
 3) ** DENOTES REVISED TERMINATIONS/LABELING ON INPLACE CABLES & CONDUCTORS IN POLE BASES, HANDHOLES, AND IN CONTROLLER CABINET.
 4) (F & I) DENOTES NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.

CONTROLLER CABINET MATCHLINE

STATE AID PROJ. 002-614-050

2025FA-BASE.JMG

DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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.
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: August 21, 2020

SEH
 PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF BLAINE

REVISE SIGNAL SYSTEM "A"
 FIELD WIRING DIAGRAM
 CSAH 14 (125TH AVE) AT OAK PARK BLVD/POLK ST

FILE NO.
 ANOKC 153781

7
 55