

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	475'	1	INPLACE
D4-1, D4-2	6x6	120'	3	INPLACE
D4-3	2-6x6	5' & 20'	1	INPLACE
D4-4	3-6x6	-20', -5', 10'	7	INPLACE
D5-1	2-6x6	10' & 40'	1	1
D5-2	2-6x6	-5' & 25'	1	2
D6-1, D6-2	6x6	475'	1	INPLACE

LOOP DETECTORS FUNCTIONS:

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

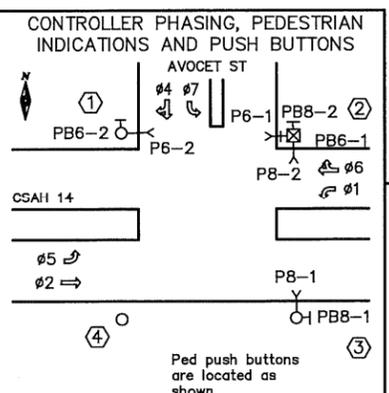
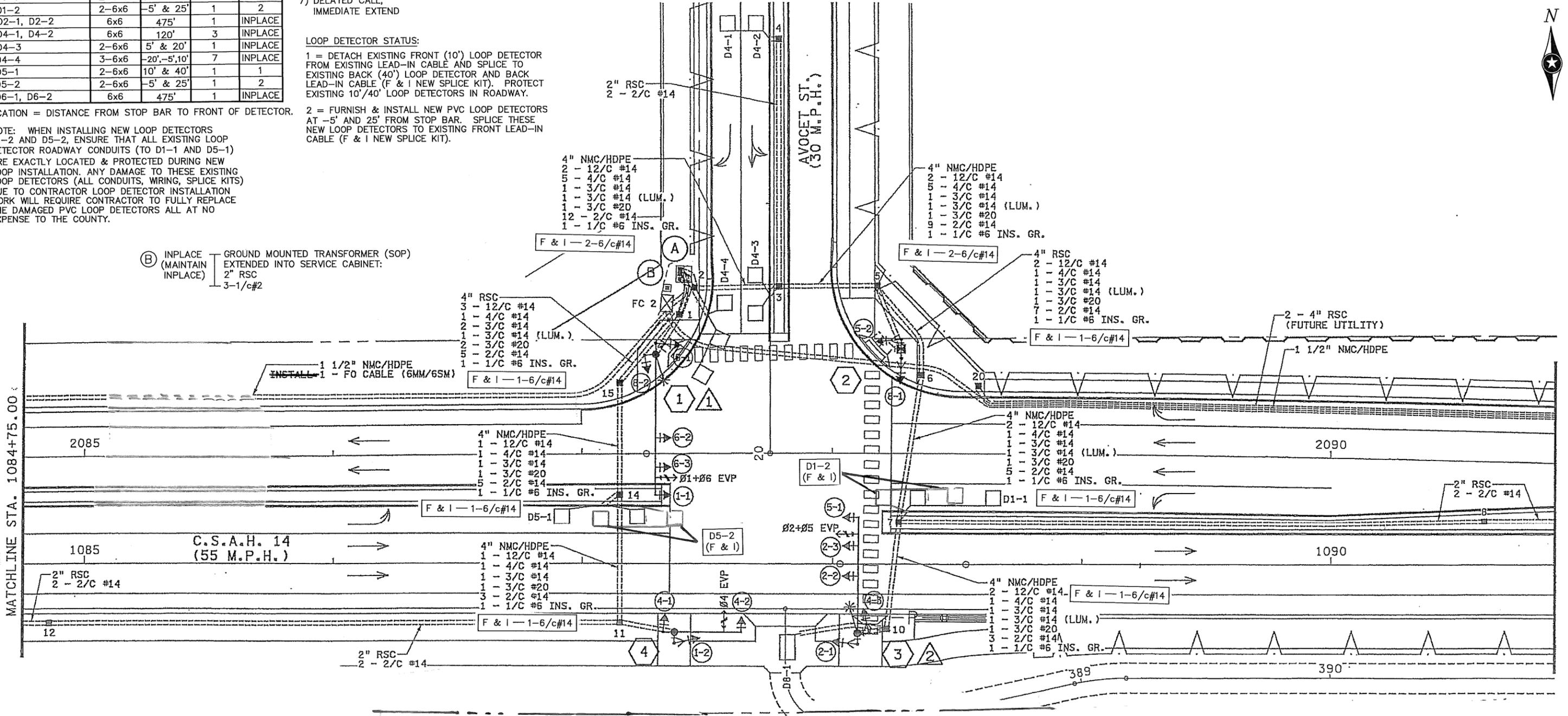
LOOP DETECTOR STATUS:

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' AND 25' 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.

(B) INPLACE (MAINTAIN INPLACE) GROUND MOUNTED TRANSFORMER (SOP) EXTENDED INTO SERVICE CABINET:
 2" RSC
 3-1/c#2



SIGNAL SYSTEM OPERATIONS:

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

(A) INPLACE (MAINTAIN INPLACE) EQUIPMENT PAD FOUNDATION CONTROLLER AND CABINET SIGNAL SERVICE CABINET
 CONTROLLER CABINET TO H.H.1:
 2-4" RSC
 3-12/c#14
 1-4/c#14
 2-3/c#14
 2-3/c#20
 6-2/c#14
 1-1/c#6 INS.GR.
 CONTROLLER CABINET TO H.H.2:
 2-4" RSC
 2-12/c#14
 5-4/c#14
 1-3/c#14
 1-3/c#20
 13-2/c#14
 1-1/c#6 INS.GR.

INPLACE (MAINTAIN INPLACE) SERVICE CABINET TO CONTROLLER CABINET:
 2" RSC
 2-1/c#6
 1-1/c#6 INS.GR.
 SERVICE CABINET TO H.H.1:
 2" RSC
 1-3/c#14 (LUM)
 SERVICE CABINET TO H.H.2:
 2" RSC
 1-3/c#14 (LUM)
 SERVICE CABINET TO SOP:
 2" RSC
 (SEE B NOTES)
 FIBER CABINET WITH 1-FO PIGTAIL
 3" RSC STUBBED OUT (BOTH ENDS THREADED AND CAPPED)

SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.

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 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4-SECTION SIGNAL (ON NEW ONE-WAY ANGLE MOUNT).

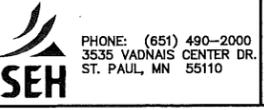
○ = INPLACE LED (REUSE INPLACE).
 ◀ = F & I NEW LED INDICATION.
 FYA = FLASHING YELLOW ARROW

LED SIGNAL HEADS					
SIGNAL HEAD #	ALL 12" INDICATIONS				STATUS
	R	Y	FYA	G	
1-1	◀	◀	◀	◀	1
1-2	◀	◀	◀	◀	2
2-1, 2-2, 2-3	○	○	○	○	INPLACE
4-1, 4-2, 4-3	○	○	○	○	INPLACE
5-1	◀	◀	◀	◀	1
5-2	◀	◀	◀	◀	2
6-1, 6-2, 6-3	○	○	○	○	INPLACE

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

NO.	BY	DATE	REVISIONS

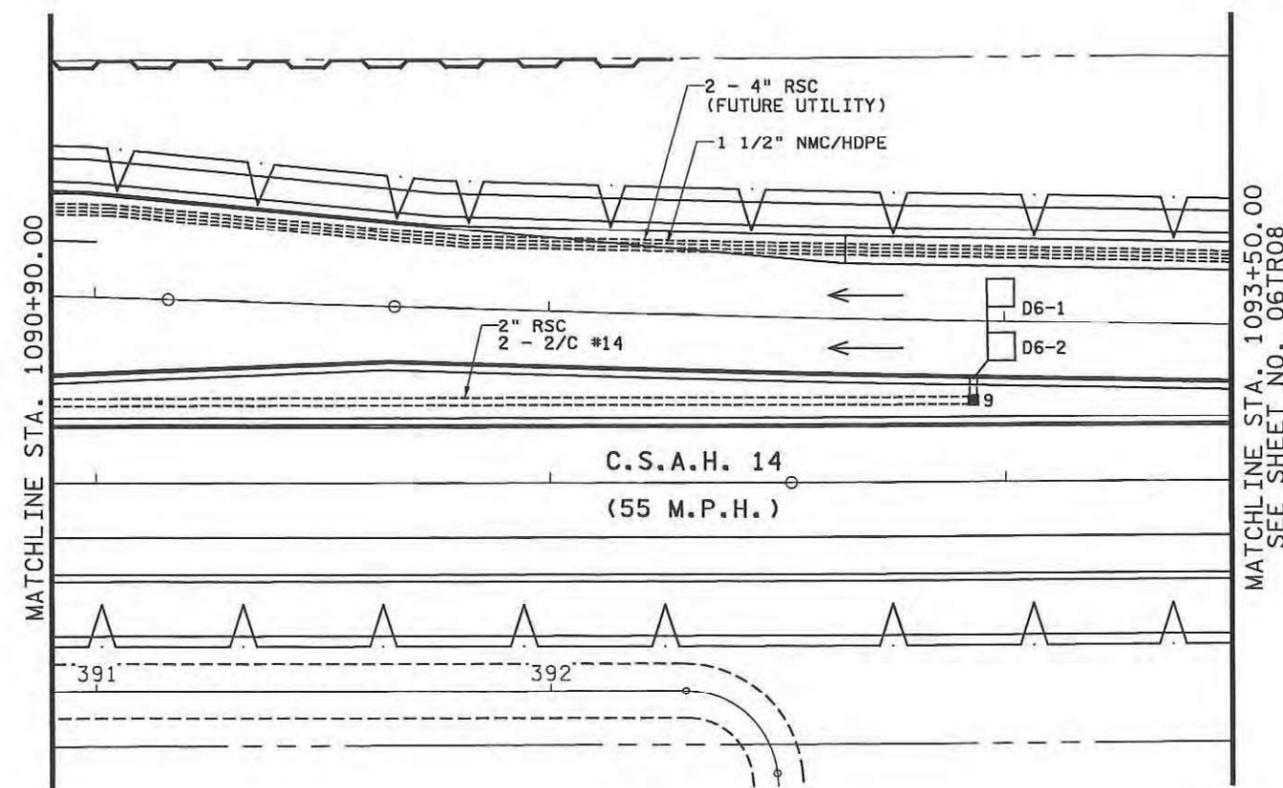
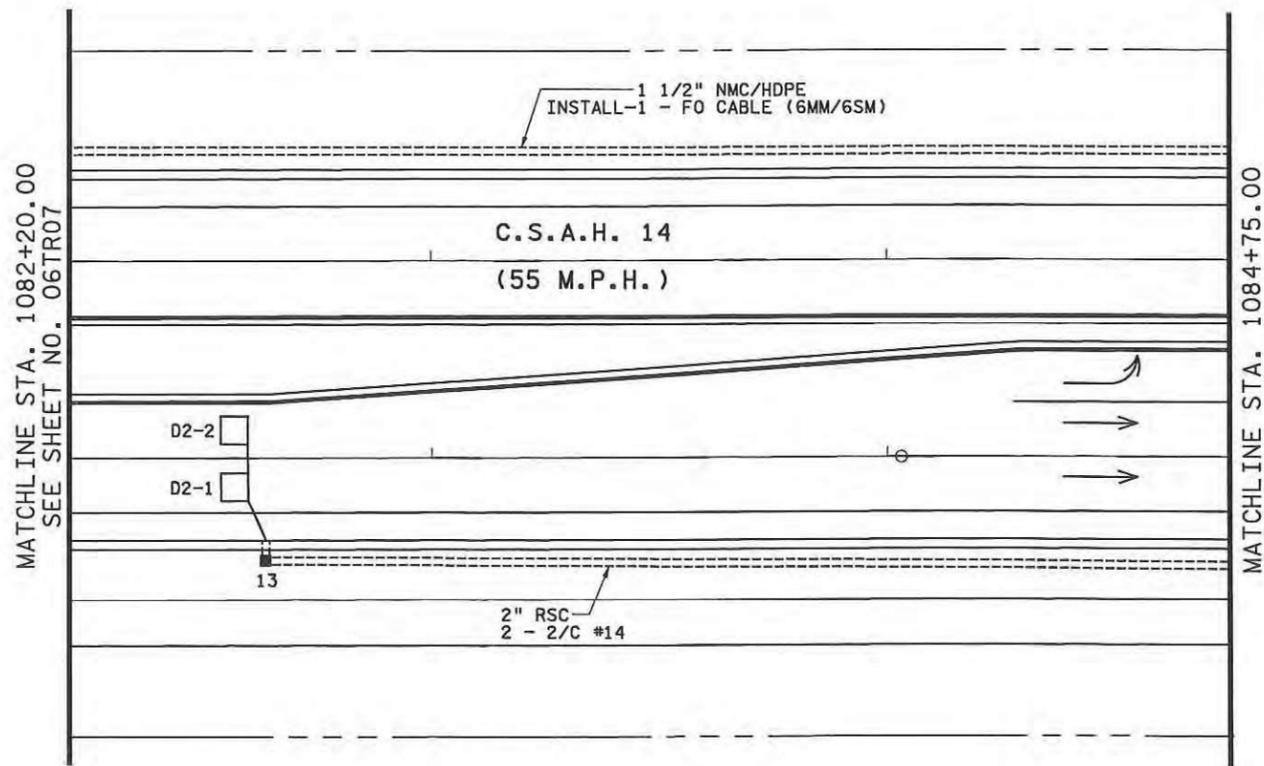
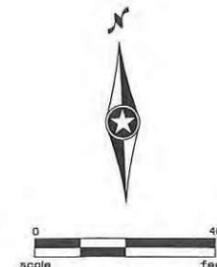
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Date: August 21, 2020
 Name: John M. Gray, PE
 Lic. No. 22457



ANOKA COUNTY
 CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM 'E'
 INTERSECTION LAYOUT
 CSAH 14 (MAIN STREET) AT AVOCET STREET

STATE AID PROJ. 002-614-050
 FILE NO. ANOKC 153781
 29
 55



RELEASED FOR CONSTRUCTION

- NOTES:
1. ALL ITEMS ARE FURNISH AND INSTALL, UNLESS NOTED OTHERWISE.
 2. SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 3. THE EXACT LOCATION OF HANDHOLES AND LOOP DETECTORS, SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 4. FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING SHEETS.
 5. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
 6. THIS WORK TO BE COMPLETED IN CONJUNCTION WITH ROADWAY WORK.
 7. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

8/17/07 AM
 10/6/2011
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NO	DATE	BY	CKD	APPR

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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

George M. Stuempfig

Date: 10/19/11 License # 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Chamberlain

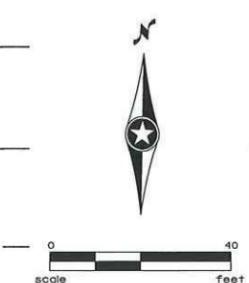
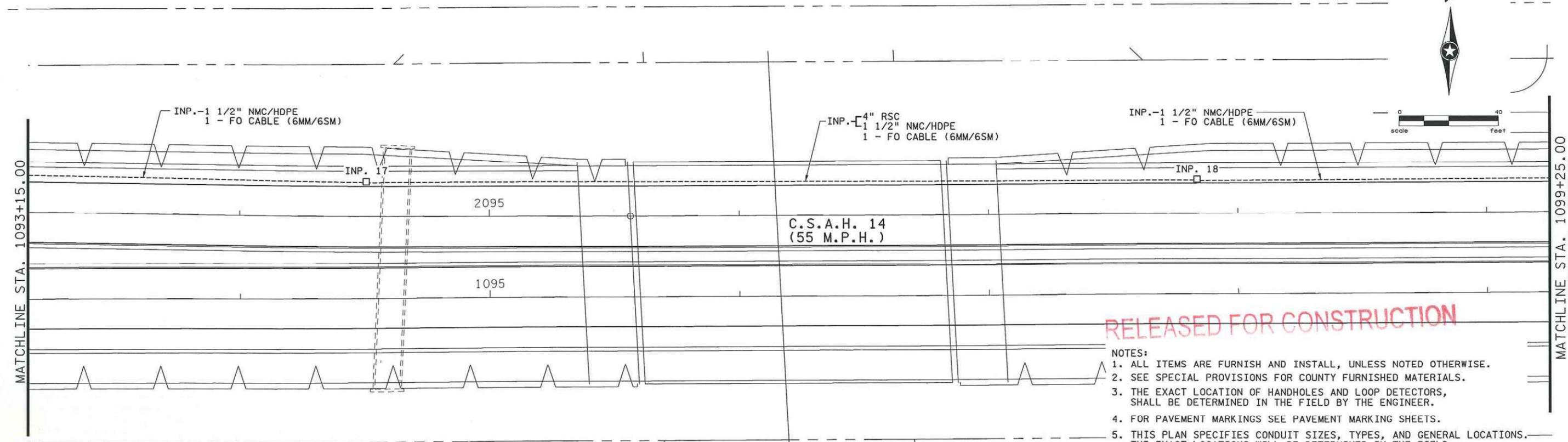
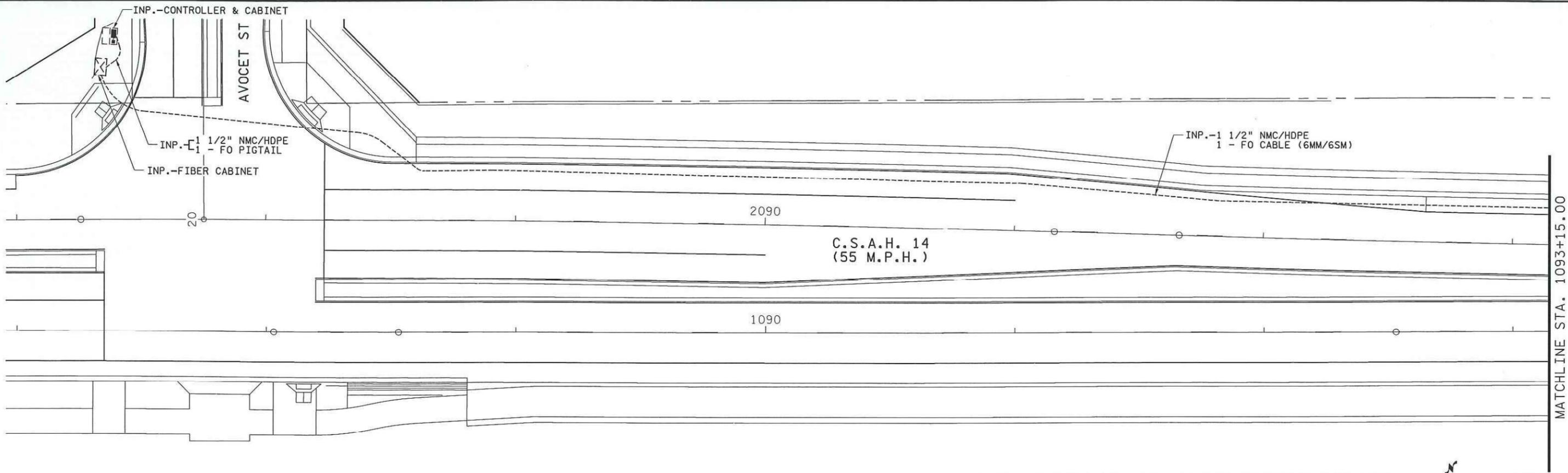
Date: 10/19/11 ANOKA COUNTY



CSAH 14 DESIGN BUILD (SAP 002-614-034)

MATCHLINE LAYOUT
 CSAH 14 & AVOCET ST (SYSTEM "A")
 C.S.A.H. 14
 DESIGN PACKAGE #06

SHEET
 06TR03
 OF
 06TR15



MATCHLINE STA. 1093+15.00

MATCHLINE STA. 1093+15.00

MATCHLINE STA. 1099+25.00
SEE SHEET NO. 07TR07

RELEASED FOR CONSTRUCTION

- NOTES:
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 7. THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK. SEE UTILITY PLANS.

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NO	DATE	BY	CHK	APPR

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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**
George M. Stuempf IG
 Date: 3/20/12 License #: 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Charles C. Colwell
 Date: 3/23/12 ANOKA COUNTY



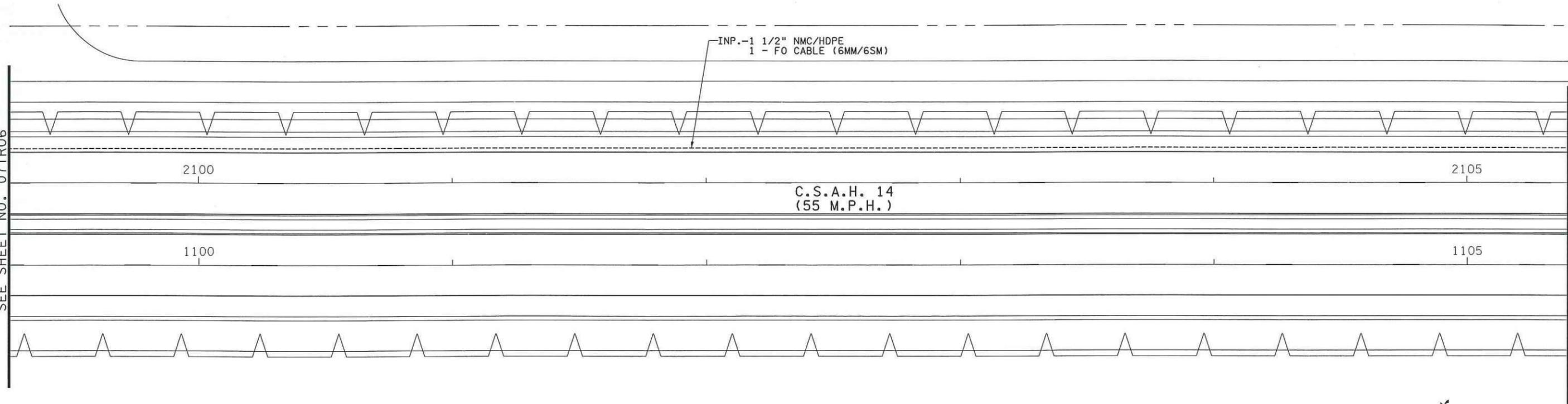
CSAH 14 DESIGN BUILD (SAP 002-614-034)

INTERCONNECT LAYOUT
C.S.A.H. 14
 DESIGN PACKAGE #07

SHEET
 07TR06
 OF
 07TR16

MATCHLINE STA. 1099+25.00
SEE SHEET NO. 07TR06

MATCHLINE STA. 1105+40.00



2100

2105

C.S.A.H. 14
(55 M.P.H.)

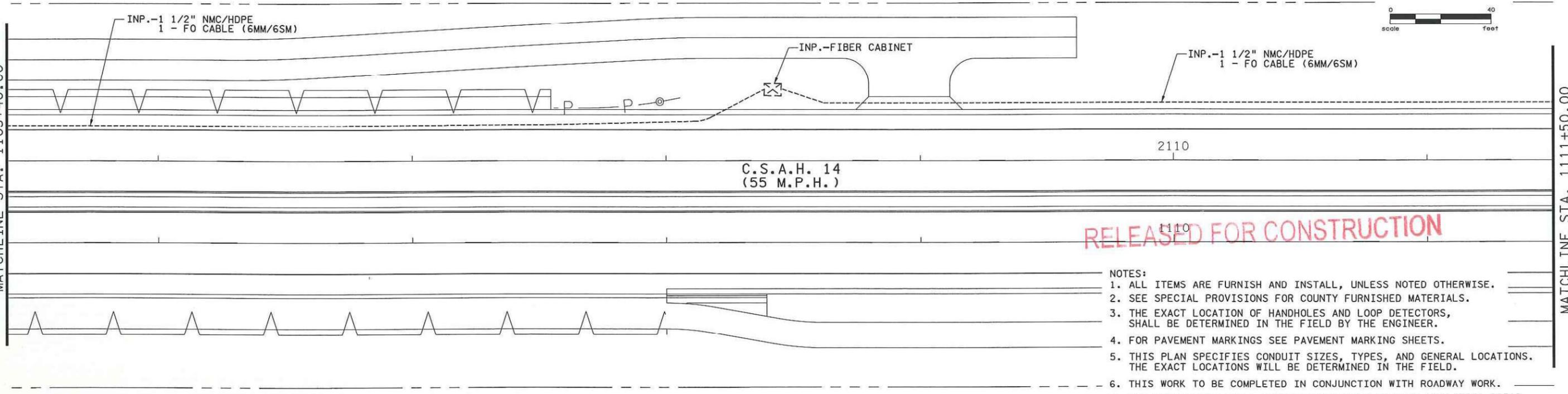
1100

1105



MATCHLINE STA. 1105+40.00

MATCHLINE STA. 1111+50.00
SEE SHEET NO. 07TR08



INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

INP.-FIBER CABINET

INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

2110

C.S.A.H. 14
(55 M.P.H.)

RELEASED FOR CONSTRUCTION

NOTES:

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NO	DATE	BY	CHKD	APPR

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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. STUEMPE IG**
George M. Stuempe IG
 Date: 3/20/12 License: 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Christina Callahan
 Date: 3/23/12 ANOKA COUNTY



CSAH 14 DESIGN BUILD (SAP 002-614-034)
 INTERCONNECT LAYOUT
 C.S.A.H. 14
 DESIGN PACKAGE #07

SHEET
 07TR07
 OF
 07TR16

MATCHLINE STA. 1111+50.00
SEE SHEET NO. 07TR07

MATCHLINE STA. 1117+50.00

XC

XC

XC

XC

XC

XC

INP.-1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

C.S.A.H. 14
(55 M.P.H.)

2115

1115

OLIVE ST

NOTES:

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XC

1 1/2" NMC/HDPE
1 - FO CABLE (6MM/6SM)

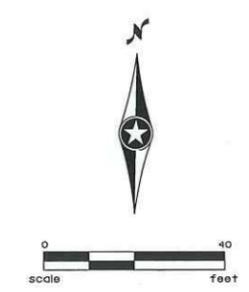
MATCHLINE STA. 1117+50.00

MATCHLINE STA. 1122+20.00
SEE SHEET NO. 07TR03

C.S.A.H. 14
(55 M.P.H.)

2120

1120



RELEASED FOR CONSTRUCTION

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NO	DATE	BY	CHKD	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. STUEMPFIG
George M. Stuempfig
 Date: 3/20/12 License: 21849

ANOKA COUNTY RELEASED FOR CONSTRUCTION

Chantel Colledge
 Date: 3/23/12 ANOKA COUNTY



CSAH 14 DESIGN BUILD (SAP 002-614-034)
 INTERCONNECT LAYOUT
 C.S.A.H. 14
 DESIGN PACKAGE #07

SHEET
 07TR08
 OF
 07TR16

NOTES:

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) ALL HANDHOLES ARE PVC HANDHOLES WITH METAL FRAMES AND COVERS AND ARE INPLACE (REUSE AND MAINTAIN INPLACE).
- 3) ALL PEDESTRIAN SIGNAL HEADS ARE ONE-SECTION LED "HAND/WALKING PERSON" COUNTDOWN TIMER INDICATIONS AND ARE INPLACE (REUSE AND MAINTAIN INPLACE).
- 4) ALL LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE AND OPERATIONAL, EXCEPT AS FOLLOWS: CONTRACTOR SHALL FURNISH AND INSTALL NEW LOOP DETECTORS D1-2 AND D5-2 IN PVC PER DETAILS INCLUDED ELSEWHERE IN THESE PLANS. LOOP DETECTOR WIRES FOR NEW LOOP DETECTORS SHALL BE CROSS-LINKED POLY-ETHYLENE (XLP) #12 AWG IN 3/4" NMC. SEE SPECIAL PROVISIONS.
- 5) ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), DUE TO TRAFFIC SIGNAL REVISION WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
- 6) CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY ENGINEER.
- 7) ALL NEW VEHICULAR SIGNAL HEADS SHALL HAVE BACKGROUND SHIELDS FURNISHED & INSTALLED BY CONTRACTOR. ALL INPLACE VEHICULAR SIGNAL HEADS BEING REUSED AS PART OF REVISE SIGNAL SYSTEM "E" HAVE BACKGROUND SHIELDS (REUSE AND MAINTAIN INPLACE).
- 8) LOCATION OF NEW LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 9) F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- 10) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS TO BE INSTALLED AND MADE OPERATIONAL BY CONTRACTOR.
- 11) ALL NEW VEHICULAR SIGNAL HOUSINGS, BACKGROUND SHIELDS AND VISORS SHALL BE FABRICATED USING BLACK POLYCARBONATE MATERIALS. SEE SPECIAL PROVISIONS.
- 12) SEE SPECIAL PROVISIONS & DETAILS REGARDING NEW TYPE C SIGN PANELS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (TO BE INCLUDED AS PART OF PAY ITEM FOR ITEM NO. 2565-REVISE SIGNAL SYSTEM E).
- 13) SEE SPECIAL PROVISIONS REGARDING WORK TO RAISE OVERHEAD SIGNAL HEADS ON MAST ARM 1 (INCLUDED AS PART OF PAY ITEM FOR ITEM NO. 2565-REVISE SIGNAL SYSTEM E).

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 PA100 SWING-AWAY HINGES
 LUMINAIRE-250 W HPS
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (6-1)
 1-SET CD PED SIGNALS (ANGLE MOUNTED) AT 180 DEG
 1-PEDESTRIAN PUSH BUTTON & SIGN (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD AT 30'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø6,1)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 1-R9-3 SIGN (NO PED XING)-FACING POLE 4
 EXTENDED INTO H.H.1:
 3" RSC
 2-12/c#14
 1-3/c#14
 1-3/c#20
 1-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) — ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 1-1)
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 1-1)
 R10-X12 SIGN PANEL-ADJACENT TO 1-1
 ADJUST MAST ARM/POLE SO THAT ALL OVERHEAD SIGNAL HEADS ARE 17 FEET ABOVE GROUND LINE TO BOTTOM OF BACKGROUND SHIELD (SEE SPECIAL PROVISIONS)
 1-6/c#14

③ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 PA100 SWING-AWAY HINGES
 LUMINAIRE-LED
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90/180 DEG
 1-SET CD PED SIGNALS (ANGLE MOUNTED) AT 90 DEG
 1-PEDESTRIAN PUSH BUTTON & SIGN (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD AT 26'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø2,5)
 1-R6-1 SIGN PANEL-POLE MOUNTED 0 DEG
 EXTENDED INTO H.H.10:
 3" RSC
 2-12/c#14
 1-4/c#14
 1-3/c#14
 1-3/c#20
 2-2/c#14
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

INPLACE (REMOVE) — ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 5-1)
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 5-1)
 R10-X12 SIGN PANEL-ADJACENT TO 5-1
 1-6/c#14

② INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
 14' PEDESTAL POLE AND BASE
 2-SETS CD PED SIGNALS-STRAIGHT MOUNTED
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 2-R6-1 SIGN PANELS (EAST/WEST SIDES OF POLE)
 EXTENDED INTO H.H.5:
 3" RSC
 4-4/c#14
 2-2/c#14
 1-1/c#6 (GRD)

INPLACE (REMOVE) — ONE WAY SIGNAL AND MOUNT (OLD 5-2)
 F & I 1-ONE WAY SIGNAL AND STRAIGHT MOUNT (NEW 5-2)
 1-6/c#14

④ INPLACE (MAINTAIN INPLACE) PA85 POLE FOUNDATION
 TYPE PA85-A-25
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 1-ANGLE MOUNT SIGNAL-POLE MOUNTED 180 DEG (4-1)
 TYPE D SIGN PANEL-OVERHEAD AT 8'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø4)
 1-R9-3 SIGN (NO PED XING)-FACING POLE 1
 1-R10-11b SIGN (NO TURN ON RED) AT 270 DEG
 EXTENDED INTO H.H.11:
 3" RSC
 1-12/c#14
 1-4/c#14
 1-3/c#14
 1-3/c#20
 1-2/c#14
 1-1/c#6 (GRD)

INPLACE (REMOVE) — ONE WAY SIGNAL AND MOUNT-POLE MOUNTED 90 DEG (OLD 1-2)
 F & I 1-ONE WAY SIGNAL AND ANGLE MOUNT-POLE MOUNTED 90 DEG (NEW 1-2)
 1-6/c#14

DRAWN BY: JMG			
DESIGNER: JMG			
CHECKED BY: JMG			
DESIGN TEAM	NO.	BY	DATE

REVISIONS			
NO.	BY	DATE	

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

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

ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "E"
POLE AND GENERAL NOTES
 CSAH 14 (MAIN STREET) AT AVOCET STREET

FILE NO.
 ANOKC 153781

