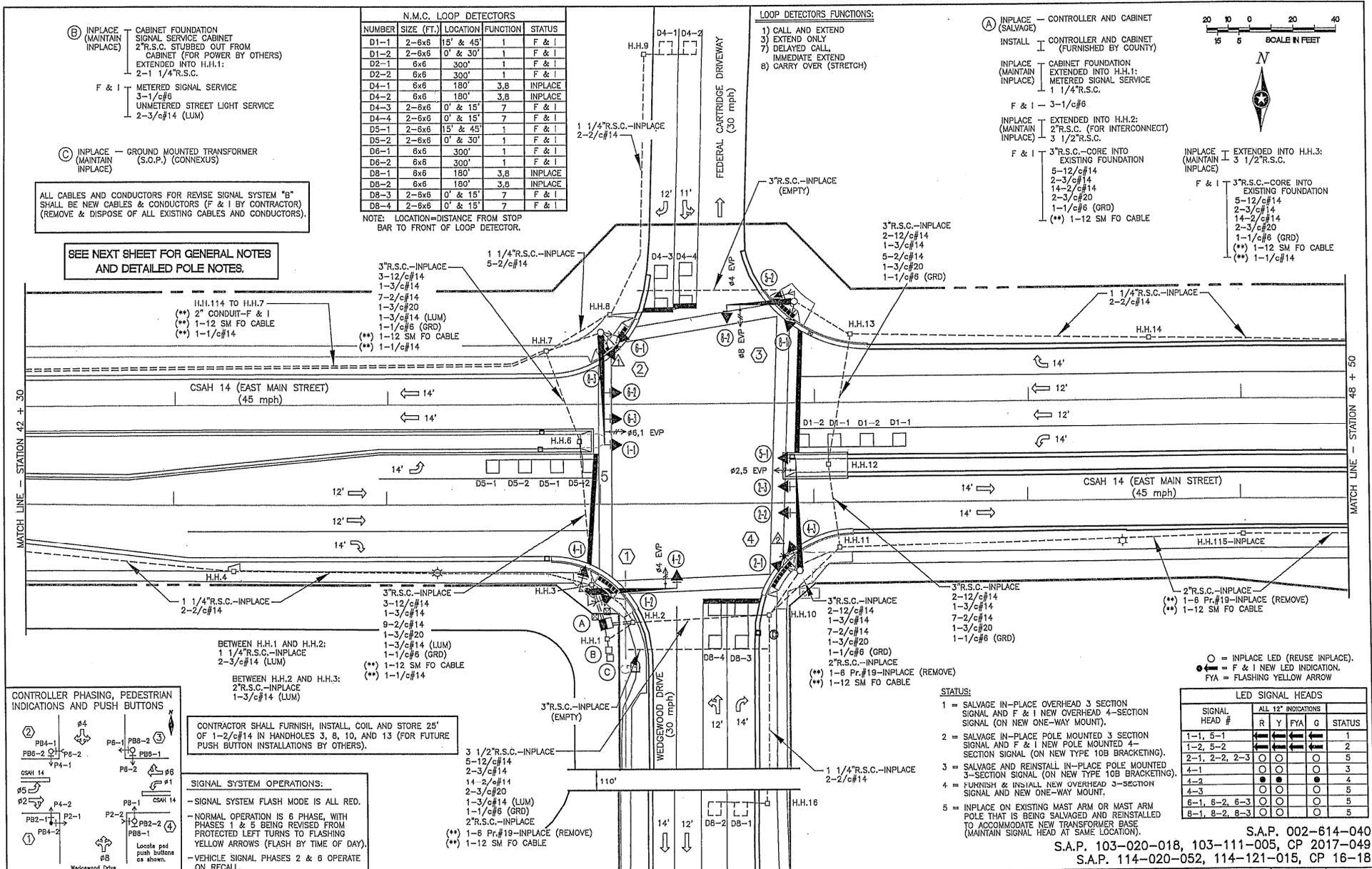


7032



N.M.C. LOOP DETECTORS					
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS	
D1-1	2-8x6	15' & 45'	1	F & I	
D1-2	2-8x6	0' & 30'	1	F & I	
D2-1	6x6	300'	1	F & I	
D2-2	6x6	300'	1	F & I	
D4-1	6x6	180'	3,8	INPLACE	
D4-2	6x6	180'	3,8	INPLACE	
D4-3	2-6x6	0' & 15'	7	F & I	
D4-4	2-6x6	0' & 15'	7	F & I	
D5-1	2-6x6	15' & 45'	1	F & I	
D5-2	2-6x6	0' & 30'	1	F & I	
D6-1	6x6	300'	1	F & I	
D6-2	6x6	300'	1	F & I	
D8-1	6x6	180'	3,8	INPLACE	
D8-2	6x6	180'	3,8	INPLACE	
D8-3	2-8x6	0' & 15'	7	F & I	
D8-4	2-8x6	0' & 15'	7	F & I	

- LOOP DETECTORS FUNCTIONS:**
- 1) CALL AND EXTEND
 - 3) EXTEND ONLY
 - 7) DELAYED CALL
 - IMMEDIATE EXTEND
 - 8) CARRY OVER (STRETCH)

- (A) INPLACE - CONTROLLER AND CABINET (SALVAGE)**
- INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY)
 - INPLACE (MAINTAIN INPLACE) CABINET FOUNDATION EXTENDED INTO H.H.1: METERED SIGNAL SERVICE 1 1/4" R.S.C.
 - F & I - 3-1/c#6
 - INPLACE (MAINTAIN INPLACE) EXTENDED INTO H.H.2: 2" R.S.C. (FOR INTERCONNECT) 3 1/2" R.S.C.
 - F & I 3" R.S.C.-CORE INTO EXISTING FOUNDATION
 - 5-12/c#14
 - 2-3/c#14
 - 14-3/c#14
 - 2-3/c#20
 - 1-1/c#6 (GRD)
 - (**) 1-12 SM FO CABLE

- (B) INPLACE - CONTROLLER AND CABINET (SALVAGE)**
- INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY)
 - INPLACE (MAINTAIN INPLACE) CABINET FOUNDATION EXTENDED INTO H.H.3: METERED SIGNAL SERVICE 1 1/4" R.S.C.
 - F & I - 3-1/c#6
 - INPLACE (MAINTAIN INPLACE) EXTENDED INTO H.H.2: 2" R.S.C. (FOR INTERCONNECT) 3 1/2" R.S.C.
 - F & I 3" R.S.C.-CORE INTO EXISTING FOUNDATION
 - 5-12/c#14
 - 2-3/c#14
 - 14-3/c#14
 - 2-3/c#20
 - 1-1/c#6 (GRD)
 - (**) 1-12 SM FO CABLE

- (B) INPLACE (MAINTAIN INPLACE)**
- CABINET FOUNDATION
 - SIGNAL SERVICE CABINET
 - 2" R.S.C. STUBBED OUT FROM CABINET (FOR POWER BY OTHERS) EXTENDED INTO H.H.1: 2-1 1/4" R.S.C.
 - F & I METERED SIGNAL SERVICE 3-1/c#6
 - UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM)

- (C) INPLACE (MAINTAIN INPLACE)**
- GROUND MOUNTED TRANSFORMER (S.O.P.) (CONNEXUS)

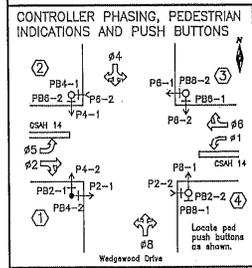
ALL CABLES AND CONDUCTORS FOR REVISE SIGNAL SYSTEM "B" SHALL BE NEW CABLES & CONDUCTORS (F & I BY CONTRACTOR) (REMOVE & DISPOSE OF ALL EXISTING CABLES AND CONDUCTORS).

SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.

NOTE: LOCATION=DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.

MATCH LINE - STATION 42 + 30

MATCH LINE - STATION 48 + 50



CONTRACTOR SHALL FURNISH, INSTALL, COIL AND STORE 25' OF 1-2/c#14 IN HANDHOLES 3, 8, 10, AND 13 (FOR FUTURE PUSH BUTTON INSTALLATIONS BY OTHERS).

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

- STATUS:**
- 1 = SALVAGE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL (ON NEW ONE-WAY MOUNT).
 - 2 = SALVAGE IN-PLACE POLE MOUNTED 3 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4-SECTION SIGNAL (ON NEW TYPE 10B BRACKETING).
 - 3 = SALVAGE AND REINSTALL IN-PLACE POLE MOUNTED 3-SECTION SIGNAL (ON NEW TYPE 10B BRACKETING).
 - 4 = FURNISH & INSTALL NEW OVERHEAD 3-SECTION SIGNAL AND NEW ONE-WAY MOUNT.
 - 5 = INPLACE ON EXISTING MAST ARM OR MAST ARM POLE THAT IS BEING SALVAGED AND REINSTALLED TO ACCOMMODATE NEW TRANSFORMER BASE (MAINTAIN SIGNAL HEAD AT SAME LOCATION).

LED SIGNAL HEADS					
SIGNAL HEAD #	ALL 12' INDICATIONS				STATUS
	R	Y	F	G	
1-1, 5-1	○	○	○	○	1
1-2, 5-2	○	○	○	○	2
2-1, 2-2, 2-3	○	○	○	○	5
4-1	○	○	○	○	3
4-2	○	○	○	○	4
4-3	○	○	○	○	5
6-1, 6-2, 6-3	○	○	○	○	5
8-1, 8-2, 8-3	○	○	○	○	5

DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

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

PHONE: (651) 490-2000
 3638 WANNUS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY, MN
 ANOKA, COON RAPIDS

REVISE SIGNAL SYSTEM 'B'
 INTERSECTION LAYOUT
 CSAH 14 AT WEDGEWOOD DRIVE

S.A.P. 103-020-018, 103-111-005, CP 2017-049
 S.A.P. 114-020-052, 114-121-015, CP 16-18

FILE NO. ANOKC 141213
 SIGNAL SHEET 18 OF 34

NOTES

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) LOCATION OF NEW FOUNDATIONS AND LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 3) CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING HANDHOLES IN THE VICINITY OF CONSTRUCTION; SHALL ADJUST HANDHOLES 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, AND 13 TO MATCH FINISHED SURROUNDING SIDEWALK/MEDIAN/BOULEVARD GRADE. SHALL REMOVE INPLACE CONCRETE OR TYPE LD COVERS FROM EACH OF THESE 11 HANDHOLES, AND SHALL FURNISH & INSTALL NEW PVC METAL FRAMES AND COVERS ON EACH OF THESE 11 HANDHOLES (INCIDENTAL). SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION.
- 4) NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY THE CONTRACTORS SHALL HAVE LOOP DETECTOR WIRES THAT SHALL BE CROSS-LINKED POLYETHYLENE (XLP) #12 AWG IN 3/4" N.M.C. SEE SPECIAL PROVISIONS AND DETAILS FOR FURTHER INFORMATION.
- 5) ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), EITHER DUE TO TRAFFIC SIGNAL REVISION WORK OR SIDEWALK/MEDIAN/ROAD CONSTRUCTION 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 PEDESTRIAN SIGNAL HEADS ARE ONE-SECTION COUNTDOWN TIMER "HAND/WALKING PERSON" INDICATIONS AND ARE INPLACE (REUSE AND MAKE OPERATIONAL AS SHOWN).
- 8) EACH NEW SIGNAL HEAD SHALL HAVE BACKGROUND SHIELD.
- 9) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (INCLUDED AS PART OF PAY ITEM FOR "REVISE SIGNAL SYSTEM B").
- 10) F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- 11) CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAKING OPERATIONAL A NEW COUNTY FURNISHED CONTROLLER CABINET COMPLETE WITH NEW CONTROL EQUIPMENT ON THE INPLACE CABINET FOUNDATION & FOR SALVAGING THE EXISTING CONTROLLER AND CABINET TO THE COUNTY. SEE SPECIAL PROVISIONS (INCIDENTAL).
- 12) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2585 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 13) SEE TEMPORARY SIGNAL SYSTEM PLANS REGARDING MAINTAINING FULLY-ACTUATED OPERATION OF THIS SIGNAL SYSTEM DURING CONSTRUCTION AT ALL TIMES (TO BE MEASURED AND PAID FOR SEPARATELY).
- 14) ALL CABLES AND CONDUCTORS FOR REVISE SIGNAL SYSTEM "B" SHALL BE NEW CABLES & CONDUCTORS (F & I BY CONTRACTOR) (REMOVE & DISPOSE OF ALL EXISTING CABLES AND CONDUCTORS).

① INPLACE (SALVAGE) — ONE WAY SIGNAL-POLE MOUNTED (OLD 1-2)

INPLACE (REMOVE) — PEDESTAL FOUNDATION PEDESTAL POLE AND BASE
TYPE 20 BRACKETING
3"R.S.C. TO H.H.3
2-12/c#12
1-3/c#12

INPLACE (S & I) — 1-ONE WAY SIGNAL-POLE MOUNTED 180 DEG (4-1)
2-SETS PEDESTRIAN INDICATIONS AT 90 DEG (P2-1) AND 180 DEG (P4-2)
2-PEDESTRIAN PUSH BUTTONS AT 0 DEG (PB4-2) AND 270 DEG (PB2-1)

F & I — PA100 POLE FOUNDATION (NEAR EXISTING FOUNDATION)
TYPE PA100-4-10 (MAST ARM, POLE, AND 26" BASE)
ONE WAY SIGNAL-OVERHEAD AT 0' (NEW 4-2, WITH NEW ONE-WAY ANGLE MOUNT)
2-TYPE 10B BRACKETING-POLE MOUNTED 90/180 DEG
1-ONE WAY SIGNAL-POLE MOUNTED 90 DEG (NEW 1-2)
2-PEDESTRIAN INSTRUCTION SIGNS (R10-3a)
TYPE D SIGN PANEL-OVERHEAD (D-5)
INSTALL ONE WAY EVP DETECTOR AND LED CONFIRMATION LIGHT (FURNISHED BY COUNTY) (#4)
3"R.S.C. INTO H.H.3
2-12/c#14
1-3/c#14
2-2/c#14
1-3/c#20
2-1/c#6 (GRD)

② INPLACE (MAINTAIN INPLACE) — A100 POLE FOUNDATION (WITH 2" DIA ANCHOR RODS) EXTENDED INTO H.H.7:
3"R.S.C.

INPLACE (SALVAGE) — ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 1-1)
LUMINAIRE-SHOEBOX

INPLACE (REMOVE) — A100 TRANSFORMER BASE (20" HEIGHT)
2-PEDESTRIAN INSTRUCTION SIGNS (STICKERS)
3-12/c#12
2-3/c#12
1-3/c#20
2-1/c#10 (LUM)

INPLACE (S & I) — TYPE A100-A-50-X30-3 (DAVIT AT 0 DEG) (SALVAGE AND REINSTALL MAST ARM AND POLE ONTO EXISTING FOUNDATION AND ONTO NEW TRANSFORMER BASE)
2-ONE WAY SIGNALS-OVERHEAD AT 12' & 24'
2-TYPE 10B-POLE MOUNTED 0/270 DEG
2-PEDESTRIAN PUSH BUTTONS
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
TYPE D SIGN PANEL-OVERHEAD AT 33'
ONE WAY EVP DETECTOR AND LIGHT AT 4' (INSTALL ON NEW 3/4"R.S.C. EXTENSION AND RAISE ABOVE R10-X12 SIGN)

F & I — PA100 TRANSFORMER BASE (28" HEIGHT, SIZED TO FIT EXISTING 2" FOUNDATION ANCHOR RODS AND A100 MAST ARM POLE)
1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 1-1)
LUMINAIRE-LED
2-PEDESTRIAN INSTRUCTION SIGNS (R10-3a)
R10-X12 SIGN PANEL-ADJACENT TO 5-1
3/4"R.S.C. EXTENSION AT 4' (FOR EVP)
3-12/c#14
1-3/c#14
2-2/c#14
1-3/c#20
1-3/c#14 (LUM)
2-1/c#6 (GRD)

④ INPLACE (MAINTAIN INPLACE) — A100 POLE FOUNDATION (WITH 2" DIA ANCHOR RODS) EXTENDED INTO H.H.10:
3"R.S.C.

INPLACE (SALVAGE) — ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (OLD 5-1)
LUMINAIRE-SHOEBOX

INPLACE (REMOVE) — A100 TRANSFORMER BASE (20" HEIGHT)
2-PEDESTRIAN INSTRUCTION SIGNS (STICKERS)
3-12/c#12
2-3/c#12
1-3/c#20
2-1/c#10 (LUM)

INPLACE (S & I) — TYPE A100-A-50-X30-3 (DAVIT AT 0 DEG) (SALVAGE AND REINSTALL MAST ARM AND POLE ONTO EXISTING FOUNDATION AND ONTO NEW TRANSFORMER BASE)
2-ONE WAY SIGNALS-OVERHEAD AT 13' & 25'
2-TYPE 10B-POLE MOUNTED 0/270 DEG
1-PEDESTRIAN PUSH BUTTON AT 270 DEG (PB8-1)
1-PEDESTRIAN PUSH BUTTON (RELOCATE FROM 0 DEG TO 180 DEG SIDE OF POLE, AND CAP HOLES AT 0 DEG) (PB2-2)
2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
TYPE D SIGN PANEL-OVERHEAD AT 33'
ONE WAY EVP DETECTOR AND LIGHT AT 4' (INSTALL ON NEW 3/4"R.S.C. EXTENSION AND RAISE ABOVE R10-X12 SIGN)

F & I — PA100 TRANSFORMER BASE (28" HEIGHT, SIZED TO FIT EXISTING 2" FOUNDATION ANCHOR RODS AND A100 MAST ARM POLE)
1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT 0' (NEW 5-1)
LUMINAIRE-LED
2-PEDESTRIAN INSTRUCTION SIGNS (R10-3a)
R10-X12 SIGN PANEL-ADJACENT TO 5-1
3/4"R.S.C. EXTENSION AT 4' (FOR EVP)
3-12/c#14
1-3/c#14
2-2/c#14
1-3/c#20
1-3/c#14 (LUM)
2-1/c#6 (GRD)

③ INPLACE (MAINTAIN INPLACE) — P90 POLE FOUNDATION (WITH 1 1/2" DIA. ANCHOR RODS) EXTENDED INTO H.H.13:
3"R.S.C.

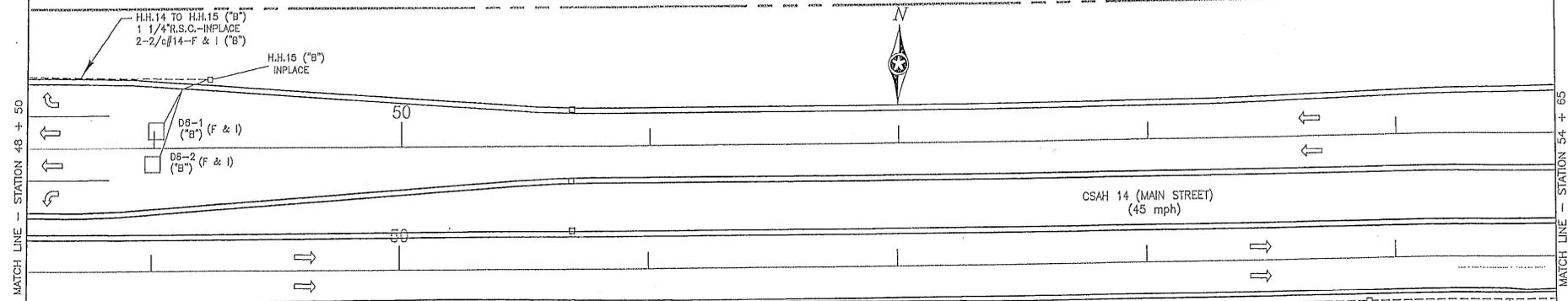
INPLACE (SALVAGE) — ONE WAY SIGNAL-POLE MOUNTED 0 DEG (OLD 5-2)

INPLACE (REMOVE) — P90 TRANSFORMER BASE (20" HEIGHT)
TYPE 10B BRACKETING-POLE MOUNTED 0 DEG
2-PEDESTRIAN INSTRUCTION SIGNS (STICKERS)
2-12/c#12
2-3/c#12
1-3/c#20
2-1/c#10

INPLACE (S & I) — TYPE P90-A-30 (SALVAGE AND REINSTALL MAST ARM AND POLE ONTO EXISTING FOUNDATION AND ONTO NEW TRANSFORMER BASE)
ONE WAY SIGNAL-OVERHEAD AT 0'
1-SET PEDESTRIAN INDICATIONS AT 90 DEG (P6-1)
TYPE 10B-POLE MOUNTED 270 DEG (8-1, P8-2)
2-PEDESTRIAN PUSH BUTTONS
TYPE D SIGN PANEL-OVERHEAD AT 17'
TWO WAY EVP DETECTOR AND TWO WAY LIGHT AT 4' (REMOVE SOUTHBOUND FACING LIGHT AND REVISE TO BE ONE WAY EVP DETECTOR AND LIGHT FOR NORTHBOUND ONLY) (#8)

F & I — P85/P90 TRANSFORMER BASE (28" HEIGHT, SIZED TO FIT EXISTING 1 1/2" FOUNDATION ANCHOR RODS AND P90 MAST ARM POLE)
TYPE 10B BRACKETING-POLE MOUNTED 90 DEG (FOR 5-2, P6-1)
1-ONE WAY SIGNAL-POLE MOUNTED 90 DEG (NEW 5-2)
CAP HUB ON 0 DEGREE SIDE OF MAST ARM POLE
2-PEDESTRIAN INSTRUCTION SIGNS (R10-3a)
2-12/c#14
1-3/c#14
2-2/c#14
1-3/c#20
1-1/c#6 (GRD)

7132



H.H.14 TO H.H.15 ("b")
1 1/4" R.S.C.-INPLACE
2-2/8#14-F & 1 ("b")

H.H.15 ("b")
INPLACE

DS-1 ("b") (F & I)

DS-2 ("b") (F & I)

H.H.116-INPLACE

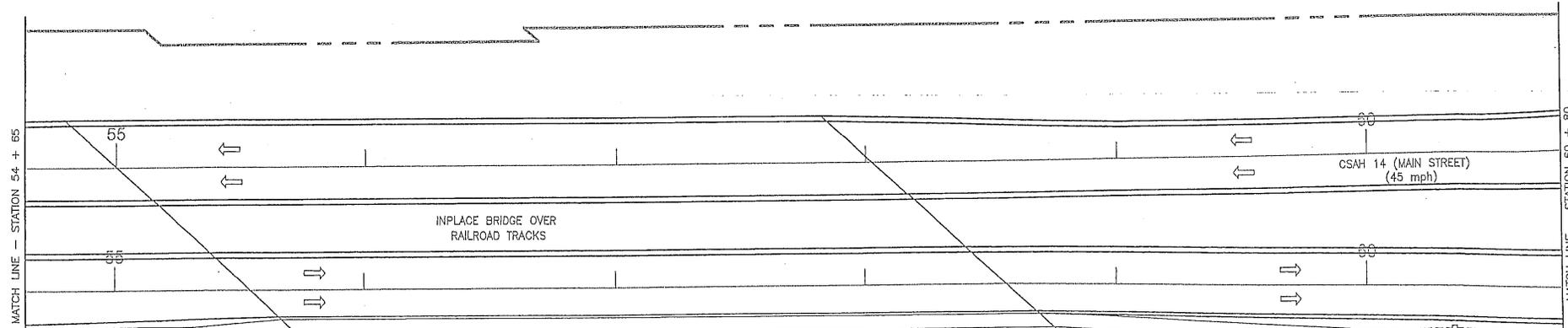
H.H.117-INPLACE

H.H.118-INPLACE

H.H.115 TO H.H.116:
2" R.S.C.-INPLACE
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE

H.H.118 TO H.H.117;
H.H.117 TO H.H.118:
2" R.S.C.-INPLACE
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE

H.H.118 TO H.H.119:
2" R.S.C.-INPLACE
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE



H.H.118 TO H.H.119:
2" R.S.C.-INPLACE
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE

H.H.119-INPLACE

H.H.119 TO H.H.120:
2" R.S.C.-INPLACE (CONDUIT
IS ATTACHED TO BRIDGE)
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE

H.H.120-INPLACE

H.H.121-INPLACE

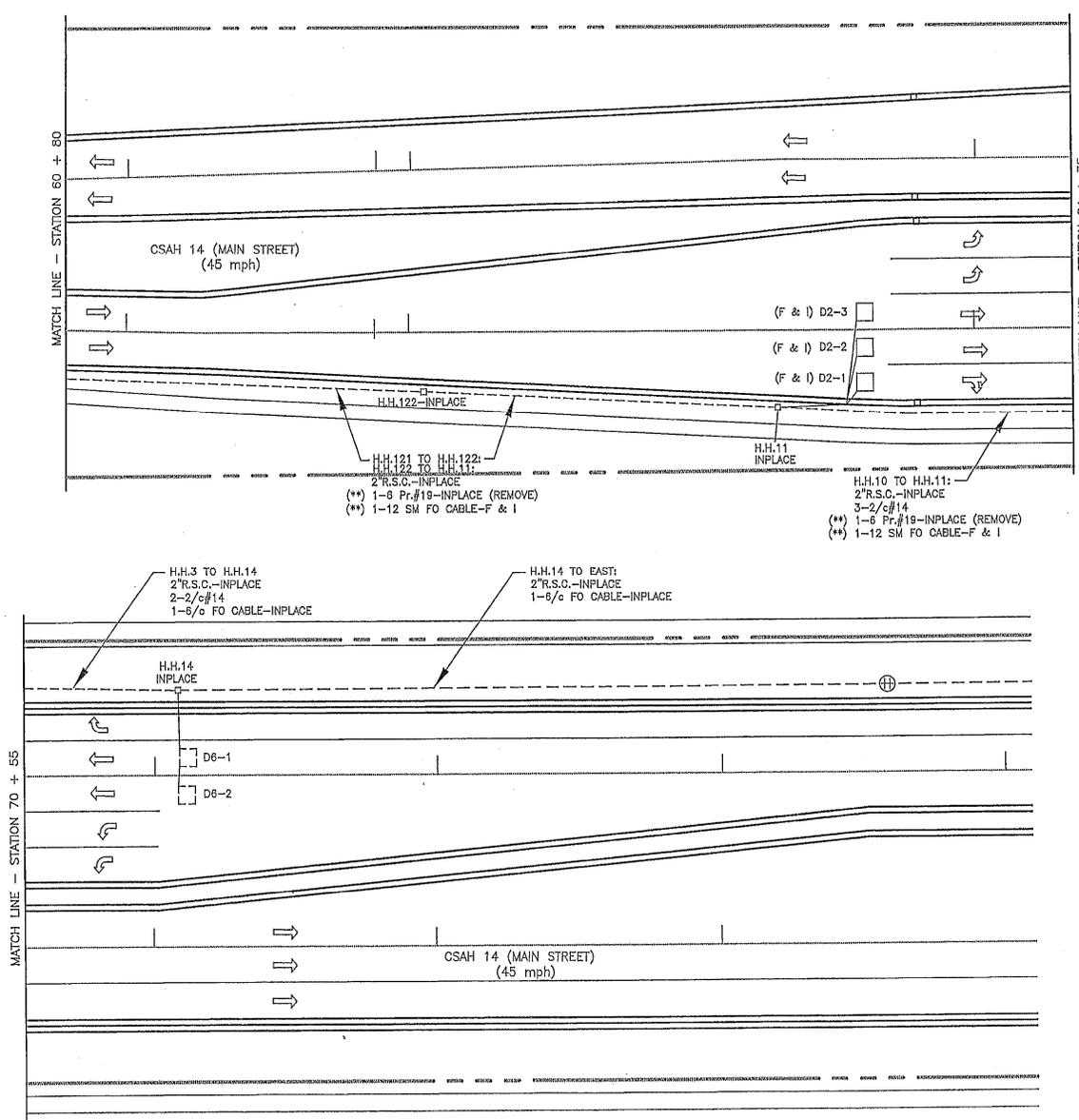
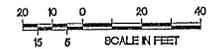
H.H.120 TO H.H.121;
H.H.121 TO H.H.122:
2" R.S.C.-INPLACE
(**) 1-6 Pr.#19-INPLACE (REMOVE)
(**) 1-12 SM FO CABLE

- INTERCONNECT NOTES:**
- 1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 651-454-0002) AS REQUIRED BY MINNESOTA STATUTE 2160.
 - 2) ALL INTERCONNECT CONDUIT SHOWN THROUGH THIS AREA IS INPLACE AND SHALL BE REUSED INPLACE.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2585 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) ALL HANDHOLES SHOWN ARE INPLACE CONCRETE HANDHOLES WITH CONCRETE COVERS (REMOVE AND REPLACE COVER ON HANDHOLE 118 WITH NEW PVC FRAME/METAL COVER) (INCIDENTAL).
 - 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
 - 6) ITEMS DENOTED BY "b" SHALL BE INCLUDED AS PART OF THE PAY ITEM FOR ITEM NO. 2585 (REVISE SIGNAL SYSTEM "b").

S.A.P. 114-020-018, 103-111-005, CP 2017-049
S.A.P. 114-020-052, 114-121-015, CP 16-18

S.A.P. 002-614-040

7132



- SYSTEM "C" NOTES:**
- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
 - LOCATION OF NEW FOUNDATIONS AND LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING HANDHOLES IN THE VICINITY OF CONSTRUCTION; SHALL ADJUST HANDHOLES 1, 2, 3, 5, 6, 7, 8, 9, 16, 17, 18, 19, AND 22 TO MATCH FINISHED SURROUNDING SIDEWALK/MEDIAN/BOULEVARD GRADE; SHALL REMOVE INPLACE CONCRETE OR TYPE LD COVERS FROM HANDHOLES 1, 3, 5, 7, 8, 16, 17, 18, 19 AND 22. AND SHALL FURNISH AND INSTALL NEW PVC METAL FRAMES & COVERS ON EACH OF THESE 10 HANDHOLES (INCIDENTAL). SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION.
 - NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY THE CONTRACTORS SHALL HAVE LOOP DETECTOR WIRES THAT SHALL BE CROSS-LINKED POLYETHYLENE (XLP) #12 AWG IN 3/4" N.M.C. SEE SPECIAL PROVISIONS AND DETAILS FOR FURTHER INFORMATION.
 - ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), EITHER DUE TO TRAFFIC SIGNAL REVISION WORK OR SIDEWALK/MEDIAN/ROAD CONSTRUCTION WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
 - CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY ENGINEER.
 - ALL PEDESTRIAN SIGNAL HEADS ARE ONE-SECTION COUNTDOWN TIMER "HAND/WALKING PERSON" INDICATIONS AND ARE INPLACE (REUSE AND MAKE OPERATIONAL AS SHOWN).
 - EACH NEW SIGNAL HEAD SHALL HAVE BACKGROUND SHIELD.
 - SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (INCLUDED AS PART OF PAY ITEM FOR "REVERSE SIGNAL SYSTEM C").
 - F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAKING OPERATIONAL A NEW COUNTY FURNISHED CONTROLLER CABINET COMPLETE WITH NEW CONTROL EQUIPMENT ON THE INPLACE CABINET FOUNDATION & FOR SALVAGING THE EXISTING CONTROLLER AND CABINET TO THE COUNTY. SEE SPECIAL PROVISIONS (INCIDENTAL).
 - (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - SEE TEMPORARY SIGNAL SYSTEM PLANS REGARDING MAINTAINING FULLY-ACTUATED OPERATION OF THIS SIGNAL SYSTEM DURING CONSTRUCTION AT ALL TIMES (TO BE MEASURED AND PAID FOR SEPARATELY).
 - ALL CABLES AND CONDUCTORS FOR REVERSE SIGNAL SYSTEM "C" SHALL BE NEW CABLES & CONDUCTORS (F & I BY CONTRACTOR), EXCEPT FOR INTERCONNECT CABLES DENOTED AS BEING INPLACE AND REUSED INPLACE (REMOVE & DISPOSE OF ALL EXISTING CABLES AND CONDUCTORS).

STATUS:

- SALVAGE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNAL (ON NEW ONE-WAY MOUNT).
- SALVAGE IN-PLACE OVERHEAD 3 SECTION SIGNALS AND F & I NEW OVERHEAD 4-SECTION SIGNALS (ON NEW 5' EXTENSION AND NEW 2-WAY MOUNT).
- SALVAGE IN-PLACE OVERHEAD 3 SECTION SIGNALS AND F & I NEW OVERHEAD 4-SECTION SIGNALS (ON NEW 2-WAY MOUNT).
- SALVAGE ONE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND F & I NEW OVERHEAD 4-SECTION SIGNALS (ON NEW 2-WAY MOUNT).
- FURNISH & INSTALL NEW OVERHEAD 4-SECTION SIGNAL AND NEW STRAP-ON ONE WAY MOUNT.
- SALVAGE IN-PLACE OVERHEAD 3 SECTION SIGNAL AND INSTALL ON NEW STRAP-ON ONE WAY MOUNT.
- FURNISH & INSTALL NEW OVERHEAD 3-SECTION SIGNAL AND NEW STRAP-ON ONE-WAY MOUNT.
- SALVAGE IN-PLACE POLE MOUNTED 3 SECTION SIGNAL AND F & I NEW POLE MOUNTED 4-SECTION SIGNAL (ON NEW TYPE 10B BRACKETING).
- SALVAGE IN-PLACE POLE MOUNTED 3 SECTION SIGNAL AND INSTALL ON NEW ONE-WAY MOUNT.

- = 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, 5-3	◐	◐	◐	◐	2
1-2, 5-2	◐	◐	◐	◐	5
1-3, 5-1	◐	◐	◐	◐	3
1-4, 5-4	◐	◐	◐	◐	8
2-1	○	○	○	○	9
2-2	○	○	○	○	INPLACE
2-3	◐	◐	◐	◐	7
2-4, 2-5	○	○	○	○	6
3-1, 7-3	◐	◐	◐	◐	4
3-2, 7-2	◐	◐	◐	◐	1
3-3, 7-4	◐	◐	◐	◐	8
4-1, 4-2, 4-3, 4-4	○	○	○	○	INPLACE
6-1, 6-2, 8-3	○	○	○	○	INPLACE
7-1	◐	◐	◐	◐	1
8-1, 8-2, 8-3, 8-4	○	○	○	○	INPLACE

S.A.P. 002-614-040
 S.A.P. 103-020-018, 103-111-005, CP 2017-049
 S.A.P. 114-020-052, 114-121-015, CP 16-18

DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

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, PE
 June 19, 2017
 Home: John M. Gray, PE
 116 No. 22457



ANOKA COUNTY, MN
 ANOKA, COON RAPIDS

REVISE SIGNAL SYSTEM "C"
 CSAH 14 MATCH LINES/NOTES
 CSAH 14 AT CSAH 9/ROUND LAKE BLVD

FILE NO. ANOKC 141213
 SIGNAL SHEET 22 OF 34

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