

REVISE SIGNAL SYSTEM J NOTES:

- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS BOXED IN AND NOTED OTHERWISE ON PLANS.
- ALL HANDHOLES ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE.
- LOCATION OF NEW PUSH BUTTON STATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL CABLES AND CONDUCTORS, CONDUIT, HANDHOLES, AND LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED OTHERWISE.
- LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) 12 AWG IN 3/4" NMC. LOOP DETECTORS IMPACTED BY EITHER CURB RAMP WORK OR MILL/OVERLAY WORK SHALL BE FURNISHED, INSTALLED & MADE OPERATIONAL BY CONTRACTOR TO SATISFACTION OF ENGINEER. SEE DETAILS & SPECIAL PROVISIONS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING LOOP DETECTOR SPLICE KITS (FOR ANY LOOP DETECTOR BEING REPLACED AS PART OF THIS PROJECT) AND SHALL FURNISH AND INSTALL NEW LOOP DETECTOR SPLICE KITS IN THE ADJACENT HANDHOLE FOR THESE LOOP DETECTORS AS CALLED FOR IN THE SPECIAL PROVISIONS.
- A SEPARATE PAY ITEM HAS BEEN ADDED (2565 - RIGID PVC LOOP DETECTOR 6' x 6') FOR REPLACEMENT OF LOOP DETECTORS, SHOULD THESE LOOP DETECTORS BE REQUIRED TO BE REPLACED BY THE CONTRACTOR EITHER DUE TO MILL/OVERLAY OR CURB RAMP/CURB AND GUTTER WORK THAT CAUSES THE EXISTING LOOP DETECTOR TO BE DAMAGED. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT AND MAINTAIN THE EXISTING LOOP DETECTORS (INCLUDING LEAD-IN CONDUITS FROM HANDHOLE TO IN-PAVEMENT LOOP DETECTOR CONDUIT) AND SHALL NOTIFY THE ENGINEER IF THEY ANTICIPATE THAT A LOOP DETECTOR WILL BE DAMAGED DUE TO THEIR WORK. COUNTY WILL PROVIDE INITIAL LOCATION OF THESE LOOP DETECTORS FOR CONTRACTOR TO BE ABLE TO PLAN FOR WORKING AROUND THESE LOOP DETECTORS. SEE SPECIAL PROVISIONS.
- CONTRACTOR SHALL MAINTAIN A SIGNAL SYSTEM IN OPERATION AT THIS INTERSECTION AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER FOR THE SIGNAL SYSTEM TO BE PLACED INTO ALL-RED FLASH DURING NON-PEAK TRAFFIC PERIODS (FOR WORK THAT REQUIRES THE SIGNAL SYSTEM TO BE OUT OF OPERATION OR TO ACCOMMODATE ROAD WORK AT THE INTERSECTION).
- ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), DUE TO TRAFFIC SIGNAL OR ROAD WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
- F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- CONCRETE SIDEWALK REMOVAL AND REPLACEMENT ON THE SW QUADRANT (TO ALLOW FOR NEW PUSH BUTTON STATION PB2-1 TO BE FURNISHED AND INSTALLED) SHALL BE COMPLETED BY THE CONTRACTOR AND INCLUDED AS PART OF THE BID ITEM FOR REVISE SIGNAL SYSTEM J (ITEM NO. 2565), WITH NO DIRECT COMPENSATION BEING MADE THEREFORE.

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-35
1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 11'
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 270°
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 270°
R10-X12 SIGN PANEL-ADJACENT TO 7-1
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (ø4,7)
EXTENDED INTO HH 15:
3" RSC
2-12/c 14
1-3/c 14
1-3/c 20
1-2/c 14
1-1/c 6 (GRD.)

INPLACE — 1-PEDESTRIAN PUSH BUTTON AT 90 DEG (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN AT 90 DEG (R10-4b) (REMOVE)
F & I — PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 90 DEG)

② INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
12' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR)
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED (FACING WB LT TRAFFIC)
1-STRAIGHT MOUNT C.D. PED INDICATION-POLE MOUNTED (FOR CROSSING CSAH 1)
EXTENDED INTO HH 1:
3" RSC
1-12/c 14
1-2/c 14
1-1/c 6 (GRD.)

INPLACE — 1-PEDESTRIAN PUSH BUTTON (EAST SIDE OF POLE) (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN (R10-4b)
(REMOVE)
F & I — 1-APS PB, SIGN (RT ARROW) AND APS PEDESTAL POLE SPACERS (PB4-2)
PLUG HOLES ON PEDESTAL POLE WHERE PUSH BUTTON USED TO BE (EAST SIDE OF POLE)

③ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)
LUMINAIRE-COBRAHEAD LED
1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°
R6-1L SIGN PANEL-POLE MOUNTED 0°
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (ø6,1)
EXTENDED INTO HH 5:
3" RSC
2-12/c 14
1-6/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 — 1-PEDESTRIAN PUSH BUTTON AT 270 DEG (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN AT 270 DEG (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (LT ARROW) AND APS MAST ARM POLE ADAPTOR (PB4-1)
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 270 DEG)

④ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
12' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR)
2-STRAIGHT MOUNT C.D. PED INDICATIONS-POLE MOUNTED
EXTENDED INTO HH 5:
3" RSC
1-12/c 14
1-2/c 14
1-1/c 6 (GRD.)

INPLACE — 1-PEDESTRIAN PUSH BUTTON (SOUTH SIDE OF POLE) (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (RT ARROW) AND APS PEDESTAL POLE SPACERS (PB8-2)
PLUG HOLES ON PEDESTAL POLE WHERE PUSH BUTTON USED TO BE (SOUTH SIDE OF POLE)

⑤ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-40-D40-9 (DAVIT AT 350°)
LUMINAIRE-COBRAHEAD LED
1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 11'
1-ANGLE MOUNT SIGNAL-POLE MOUNTED 270°
1-ANGLE MOUNT C.D. PED INDICATION-POLE MOUNTED 270°
R10-X12 SIGN PANEL-ADJACENT TO 3-1
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (ø8,3)
EXTENDED INTO HH 7:
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 — 1-PEDESTRIAN PUSH BUTTON AT 315 DEG (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN AT 315 DEG (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (LT ARROW) AND APS MAST ARM POLE ADAPTOR (PB8-1)
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 315 DEG)

⑥ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
12' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR)
1-STRAIGHT MOUNT SIGNAL-POLE MOUNTED (FACING EB LT TRAFFIC)
1-STRAIGHT MOUNT C.D. PED INDICATION-POLE MOUNTED (FOR CROSSING CSAH 1)
EXTENDED INTO HH 8:
3" RSC
1-12/c 14
1-2/c 14
1-1/c 6 (GRD.)

INPLACE — 1-PEDESTRIAN PUSH BUTTON (WEST SIDE OF POLE) (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (RT ARROW) AND APS PEDESTAL POLE SPACERS (PB8-2)
PLUG HOLES ON PEDESTAL POLE WHERE PUSH BUTTON USED TO BE (WEST SIDE OF POLE)

⑦ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350°)
LUMINAIRE-COBRAHEAD LED
1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90° & 180°
R6-1L SIGN PANEL-POLE MOUNTED 0°
TYPE D SIGN PANEL-OVERHEAD
ONE WAY EVP DETECTOR AND LIGHT (ø2,5)
EXTENDED INTO HH 12:
3" RSC
2-12/c 14
1-6/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 — 1-PEDESTRIAN PUSH BUTTON AT 270 DEG (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN AT 270 DEG (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (LT ARROW) AND APS MAST ARM POLE ADAPTOR (PB8-1)
PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTON USED TO BE (AT 270 DEG)

⑧ INPLACE (MAINTAIN INPLACE) PEDESTAL FOUNDATION
12' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR)
2-STRAIGHT MOUNT C.D. PED INDICATIONS-POLE MOUNTED
EXTENDED INTO HH 13:
3" RSC
1-12/c 14
1-2/c 14
1-1/c 6 (GRD.)

INPLACE — 1-PEDESTRIAN PUSH BUTTON (NORTH SIDE OF POLE) (SALVAGE)
INPLACE — 1-PED PB STICKER SIGN (R10-4b) (REMOVE)
F & I — 1-APS PB, SIGN (RT ARROW) AND APS PEDESTAL POLE SPACERS (PB2-2)
PLUG HOLES ON PEDESTAL POLE WHERE PUSH BUTTON USED TO BE (NORTH SIDE OF POLE)

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, PE
Date: May 9, 2022
Name: John M. Gray, PE
Lic. No. 22457

SEH
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3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "J"
SIGNAL SYSTEM NOTES
CSAH 1 (COON RAPIDS BOULEVARD)
AT ROUND LAKE BOULEVARD

FILE NO.
ANOKC 122928
SIGNAL SHEET
33 OF 35

63V
94

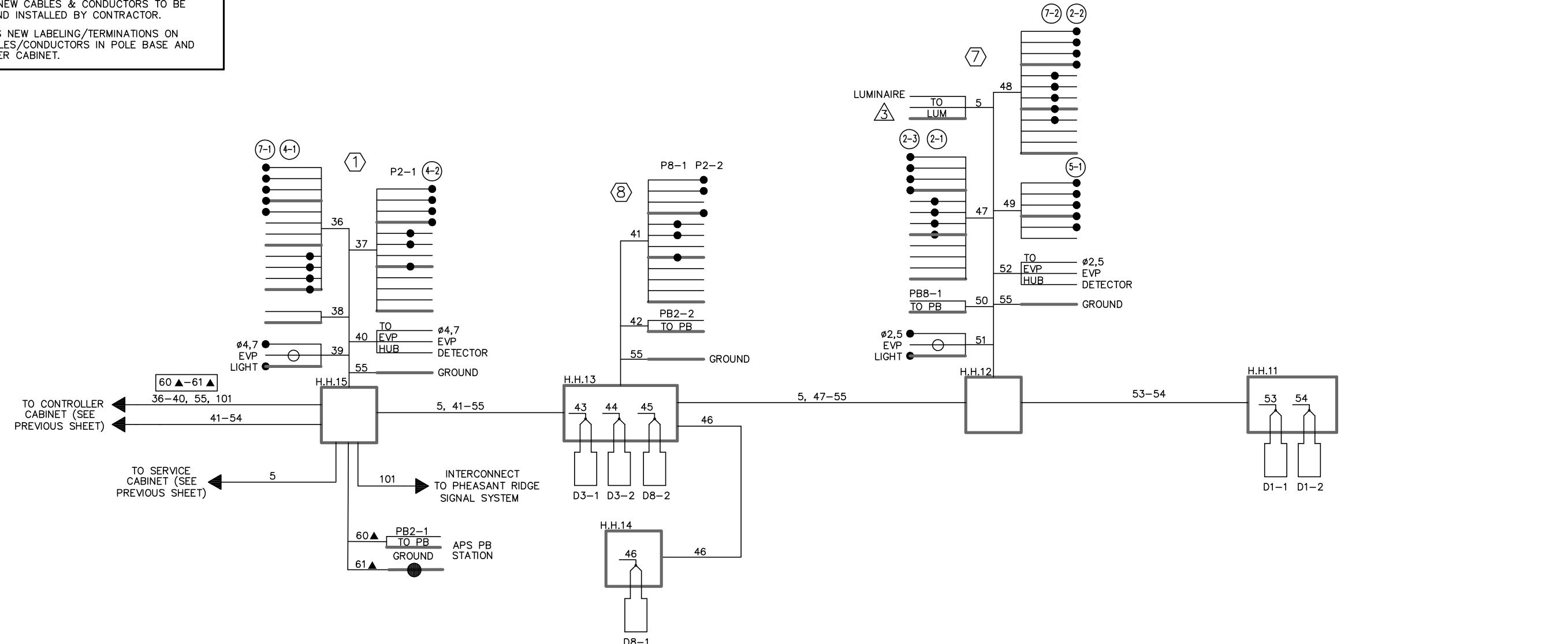
COUNTY PROJECT 22-19-01

REVISE SIGNAL SYSTEM J NOTES:

- 1) ALL CABLES AND CONDUCTORS, HANHOLES, AND LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT AS OTHERWISE NOTED.
- 2) ▲ DENOTES NEW CABLES & CONDUCTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 3) (**) DENOTES NEW LABELING/TERMINATIONS ON INPLACE CABLES/CONDUCTORS IN POLE BASE AND IN CONTROLLER CABINET.

CONDUCTOR COLOR CODE (14 GAUGE)	
TO SIGNAL CABINET	TO DEVICE
1/C#6 G	R
6PR#19	YEL
R	BL
3-1/C#21 WH	WH
BLK	BLK/R
BLK	BLK
3-1/C#6 WH	SIGNAL
G	NEU
3/C#14 G	INDICATION
R	BLK/R
O	BLK
BL	WH
R/BLK	BLK
O/BLK	BLK
BL/BLK	WH/BLK
BLK	BLK
BLK/WH	BLK/WH
BLK/R	WH/R
BLK	WH or CL
2/C#14	BLK
R or O	WH or YEL
3/C#20	BLK or BL
2/C#14	BLK
4/C#14	RED/DWK
CABLE	YEL/WLK
BLK	BLK/SPR
WH	PED
3/C#14	EVP LIGHT
CABLE	LUM/FLASHER
2/C#14	PED PUSH BUTTON
CABLE	(if required)

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



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ANOKA COUNTY
CITY OF COON RAPIDS

REVISE SIGNAL SYSTEM "J"
FIELD WIRING DIAGRAM
CSAH 1 (COON RAPIDS BOULEVARD)
AT ROUND LAKE BOULEVARD

FILE NO.
ANOKC 122928
SIGNAL SHEET
35 OF 35
63X
94

COUNTY PROJECT 22-19-01