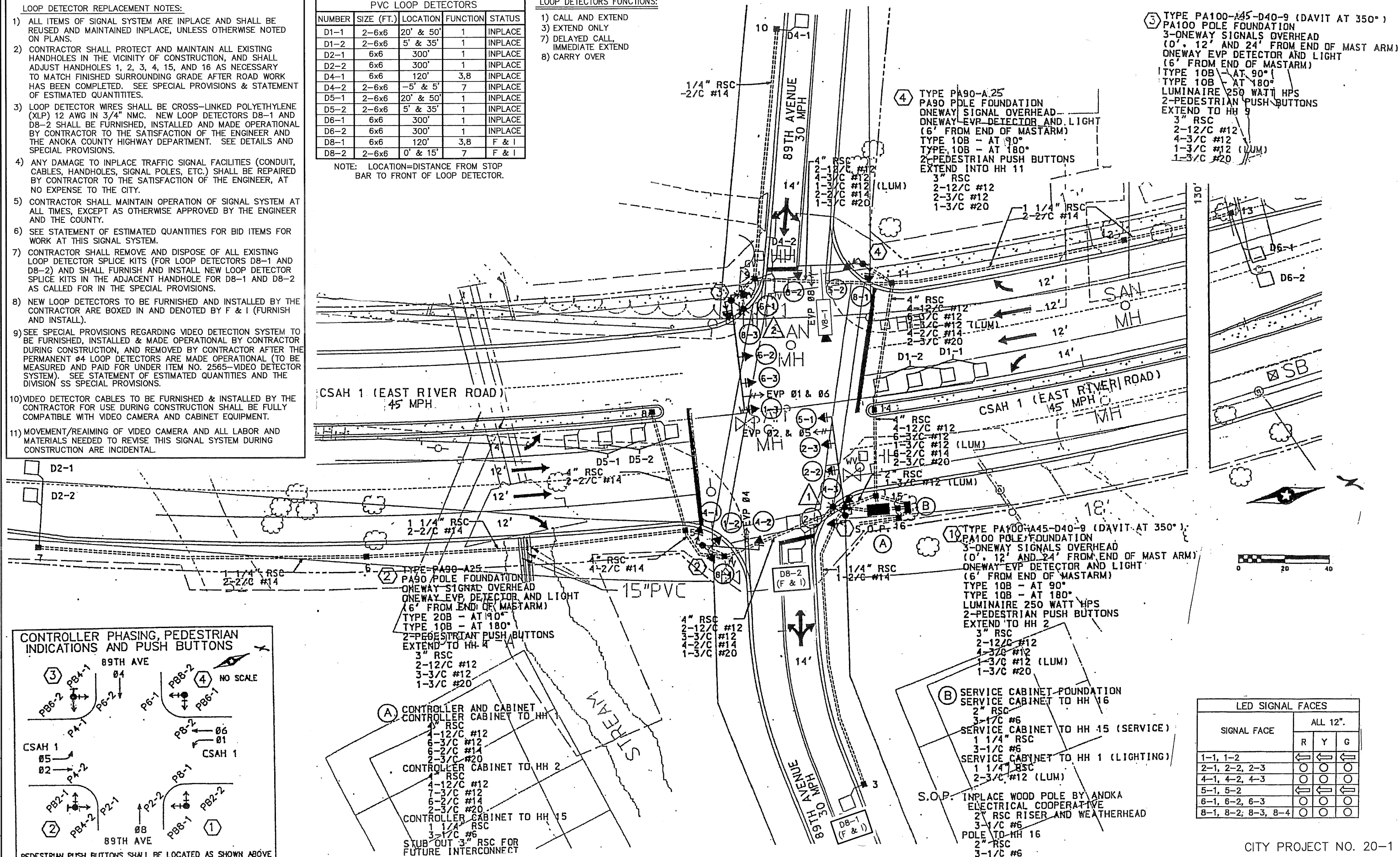


- 1) ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING HANDHOLES IN THE VICINITY OF CONSTRUCTION, AND SHALL ADJUST HANDHOLES 1, 2, 3, 4, 15, AND 16 AS NECESSARY TO MATCH FINISHED SURROUNDING GRADE AFTER ROAD WORK HAS BEEN COMPLETED. SEE SPECIAL PROVISIONS & STATEMENT OF ESTIMATED QUANTITIES.
- 3) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) 12 AWG IN 3/4" NMC. NEW LOOP DETECTORS D8-1 AND D8-2 SHALL BE FURNISHED, INSTALLED AND MADE OPERATIONAL BY CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE ANOKA COUNTY HIGHWAY DEPARTMENT. SEE DETAILS AND SPECIAL PROVISIONS.
- 4) ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.) SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE CITY.
- 5) CONTRACTOR SHALL MAINTAIN OPERATION OF SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER AND THE COUNTY.
- 6) SEE STATEMENT OF ESTIMATED QUANTITIES FOR BID ITEMS FOR WORK AT THIS SIGNAL SYSTEM.
- 7) CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING LOOP DETECTOR SPLICE KITS (FOR LOOP DETECTORS D8-1 AND D8-2) AND SHALL FURNISH AND INSTALL NEW LOOP DETECTOR SPLICE KITS IN THE ADJACENT HANDHOLE FOR D8-1 AND D8-2 AS CALLED FOR IN THE SPECIAL PROVISIONS.
- 8) NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR ARE BOXED IN AND DENOTED BY F & I (FURNISH AND INSTALL).
- 9) SEE SPECIAL PROVISIONS REGARDING VIDEO DETECTION SYSTEM TO BE FURNISHED, INSTALLED & MADE OPERATIONAL BY CONTRACTOR DURING CONSTRUCTION, AND REMOVED BY CONTRACTOR AFTER THE PERMANENT Ø4 LOOP DETECTORS ARE MADE OPERATIONAL (TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565-VIDEO DETECTOR SYSTEM). SEE STATEMENT OF ESTIMATED QUANTITIES AND THE DIVISION SS SPECIAL PROVISIONS.
- 10) VIDEO DETECTOR CABLES TO BE FURNISHED & INSTALLED BY THE CONTRACTOR FOR USE DURING CONSTRUCTION SHALL BE FULLY COMPATIBLE WITH VIDEO CAMERA AND CABINET EQUIPMENT.
- 11) MOVEMENT/REPAIRING OF VIDEO CAMERA AND ALL LABOR AND MATERIALS NEEDED TO REVISE THIS SIGNAL SYSTEM DURING CONSTRUCTION ARE INCIDENTAL.

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

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



LED SIGNAL FACES			
SIGNAL FACE	ALL 12".		
	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	○	○	○
4-1, 4-2, 4-3	○	○	○
5-1, 5-2	←	←	←
6-1, 6-2, 6-3	○	○	○
8-1, 8-2, 8-3, 8-4	○	○	○

CITY PROJECT NO. 20-1

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

1	3mb	11/20
NO.	BY	DATE

RECORD DRAWING

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: February 18, 2020 Name: John M. Gray, PE
Lic. No. 22457



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

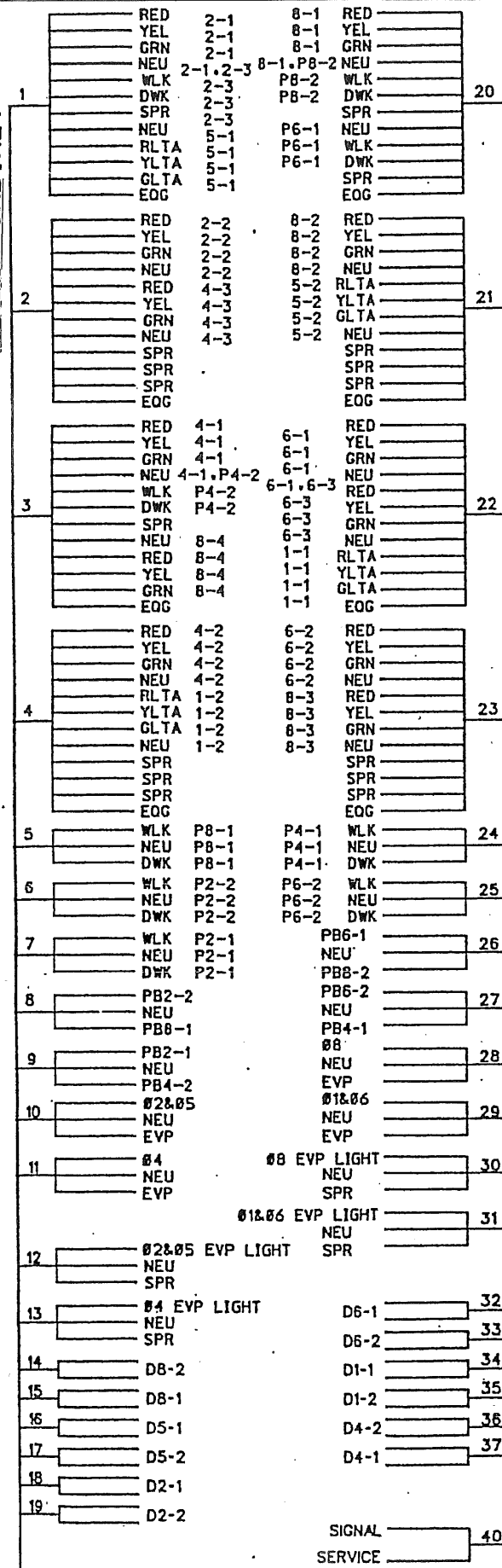
**COON RAPIDS,
MINNESOTA**

**LOOP DETECTOR REPLACEMENT
INTERSECTION LAYOUT
CSAH 1 (EAST RIVER ROAD)
AT 89TH AVENUE**

FILE NO. COONR 116823
SIGNAL SHEET 2 OF 3

S:\A\COONR\COMMON SIGNALS-LED\2020-LOOP'S\2020-BASE.DWG

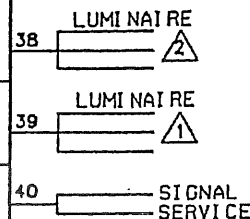
CONTROLLER CABINET



RECORD DRAWING

REVISIONS

SERVICE CABINET



SIGNALS
NEUTRAL
LIGHTING

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.

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3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

COON RAPIDS,
MINNESOTA

LOOP DETECTOR REPLACEMENT
FIELD WIRING DIAGRAM
CSAH 1 (EAST RIVER ROAD)
AT 89TH AVENUE

FILE NO.
COONR 116823
SIGNAL SHEET
3 OF 3

CONDUCTOR COLOR CODING

R	BLK	2-1/C#10
0	WH	
BL		
WH		
R/BLK	R	3/C#12
0/BLK	WH	
BL/BLK	BLK	
WH/BLK		
BLK	R OR 0	
BLK/WH	WH OR YEL	3/C#20
G/BLK	BLK OR BL	
0		
BLK	BLK	2/C#14
WH	CLEAR	
BR, GR		

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

ALL TERMINATIONS OF CABLES AND CONDUCTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED AS SHOWN, UNLESS OTHERWISE DENOTED.

LOOP DETECTOR REPLACEMENT NOTES:

- ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL REUSE AND MAKE OPERATIONAL ALL EXISTING LOOP DETECTOR LEAD-IN CABLES IN ORDER TO MAKE NEW LOOP DETECTORS D8-1 AND D8-2 OPERATIONAL TO THE SATISFACTION OF THE ENGINEER.
- (F & I) DENOTES NEW LOOP DETECTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
- = NEW TERMINATION ON EXISTING LEAD-IN CABLE.
- ▲ = VIDEO DETECTOR CABLE TO BE FURNISHED, INSTALLED, MADE OPERATIONAL, AND REMOVED BY CONTRACTOR.

CITY PROJECT NO. 20-1