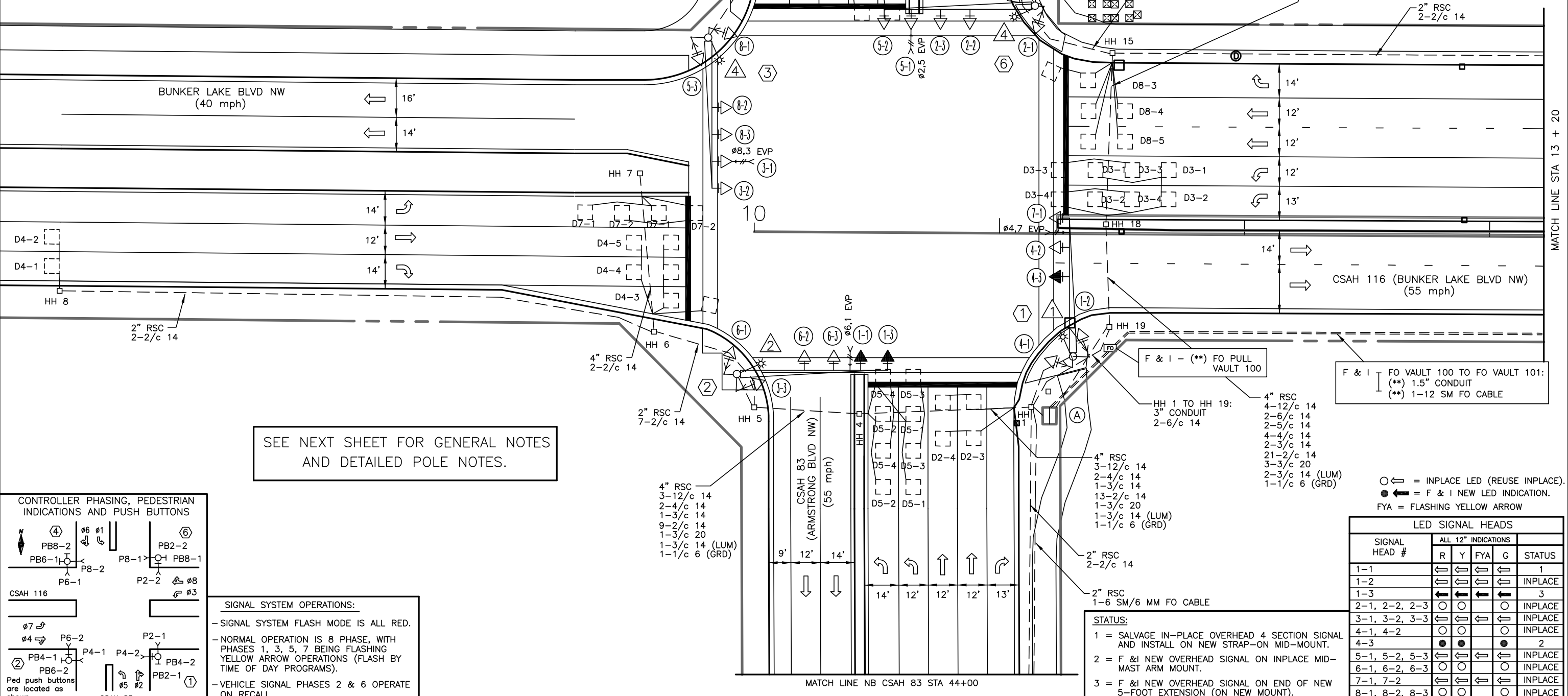
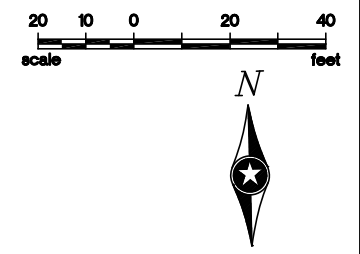


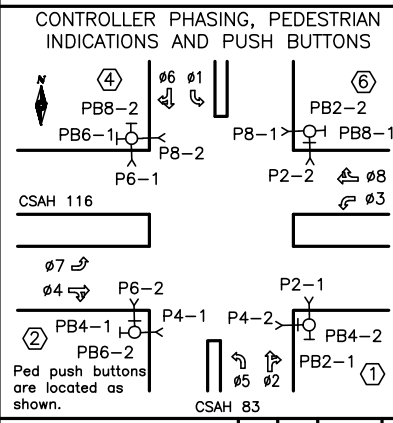
PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1, D1-2	2-6x6	10' & 40'	1	INPLACE
D1-3, D1-4	2-6x6	-5' & 25'	1	INPLACE
D2-1, D2-2	6x6	475'	1	INPLACE
D2-3, D2-4	2-6x6	5' & 20'	1	INPLACE
D3-1, D3-2	2-6x6	10' & 40'	1	INPLACE
D3-3, D3-4	2-6x6	-5' & 25'	1	INPLACE
D4-1, D4-2	6x6	250'	3,8	INPLACE
D4-3, D8-3	2-6x6	-5' & 5'	7	INPLACE
D4-4, D4-5	2-6x6	5' & 20'	1	INPLACE
D5-1, D5-2	2-6x6	10' & 40'	1	INPLACE
D5-3, D5-4	2-6x6	-5' & 25'	1	INPLACE
D6-1, D6-2	6x6	475'	1	INPLACE
D6-3, D6-4	2-6x6	5' & 20'	1	INPLACE
D7-1	2-6x6	10' & 40'	1	INPLACE
D7-2	2-6x6	-5' & 25'	1	INPLACE
D8-1, D8-2	6x6	475'	3,8	INPLACE
D8-4, D8-5	2-6x6	5' & 20'	1	INPLACE

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

LOCATION = DISTANCE FROM STOP BAR TO FRONT OF DETECTOR.



SEE NEXT SHEET FOR GENERAL NOTES AND DETAILED POLE NOTES.



- SIGNAL SYSTEM OPERATIONS:
- SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5, 7 BEING FLASHING YELLOW ARROW OPERATIONS (FLASH BY TIME OF DAY PROGRAMS).
 - VEHICLE SIGNAL PHASES 2 & 6 OPERATE ON RECALL.

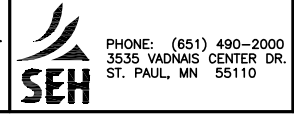
LED SIGNAL HEADS					
SIGNAL HEAD #	ALL 12" INDICATIONS				STATUS
	R	Y	FYA	G	
1-1	←	←	←	←	1
1-2	←	←	←	←	INPLACE
1-3	←	←	←	←	3
2-1, 2-2, 2-3	○	○	○	○	INPLACE
3-1, 3-2, 3-3	←	←	←	←	INPLACE
4-1, 4-2	○	○	○	○	INPLACE
4-3	●	●	●	●	2
5-1, 5-2, 5-3	←	←	←	←	INPLACE
6-1, 6-2, 6-3	○	○	○	○	INPLACE
7-1, 7-2	←	←	←	←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

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DESIGNER:	JMG
CHECKED BY:	JMG
DESIGN TEAM	

NO.	BY	DATE	REVISIONS
1	JMG	8/2022	RECORD DRAWING

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Name: John M. Gray, PE
Lic. No. 22457
Date: July 7, 2021



ANOKA COUNTY, MN
CITY OF RAMSEY
SAP 002-716-021
SAP 199-104-014

REVISE SIGNAL SYSTEM 'A'
INTERSECTION LAYOUT
CSAH 116 (BUNKER LAKE BLVD NW)
AT CSAH 83 (ARMSTRONG BLVD NW)

FILE NO. ANOKC 159572
SIGNAL SHEET 8 OF 25
187
259

REVISE SIGNAL SYSTEM A NOTES:

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING PVC HANDHOLES (WITH METAL FRAMES AND COVERS) IN THE VICINITY OF CONSTRUCTION, AND SHALL ADJUST HANDHOLE 17 AS NEEDED TO MATCH FINISHED SURROUNDING GRADE AFTER ROAD WORK HAS BEEN COMPLETED. SEE SPECIAL PROVISIONS (INCIDENTAL).
- 3) LOCATION OF FIBER VAULT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 4) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
- 5) ALL LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE AND OPERATIONAL, EXCEPT AS FOLLOWS: A SEPARATE PAY ITEM HAS BEEN ADDED (2565 - RIGID PVC LOOP DETECTOR 6' x 6') SHOULD ANY EXISTING LOOP DETECTOR BE DAMAGED OR DISTURBED DUE TO CONSTRUCTION OPERATIONS. SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION.
- 6) 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.
- 7) CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY ENGINEER.
- 8) 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 "A" HAVE BACKGROUND SHIELDS (REUSE AND MAINTAIN INPLACE).
- 9) F & I = NEW, FURNISH AND INSTALL.
S & I = INPLACE, SALVAGE AND INSTALL.
- 10) ALL NEW VEHICULAR SIGNAL HOUSINGS, BACKGROUND SHIELDS AND VISORS SHALL BE FABRICATED USING BLACK POLYCARBONATE MATERIALS. SEE SPECIAL PROVISIONS.
- 11) 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.
- 12) (**) 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.
- 13) SEE SPECIAL PROVISIONS REGARDING WORK TO RAISE OVERHEAD SIGNAL HEADS ON MAST ARM 2 (INCLUDED AS PART OF PAY ITEM FOR ITEM NO. 2565-REVISE SIGNAL SYSTEM A).

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 2-ONE WAY SIGNALS-OVERHEAD AT 0' & 11'
 CAPPED MID-MOUNT AT 23'
 2-ONE WAY SIGNALS-POLE MOUNTED 90/180 DEG
 2-SETS CD PED SIGNALS-POLE MOUNTED 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 R10-X12 SIGN PANEL-ADJACENT TO 7-1
 TYPE D SIGN PANEL-OVERHEAD AT 24'
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø4,7)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 EXTENDED INTO HH 1:
 3" RSC
 2-12/c 14
 2-4/c 14
 1-3/c 14
 1-3/c 20
 2-2/c 14
 1-3/c 14 (LUM)
 1-1/c 6 (GRD)

F & I 1-ONE WAY SIGNAL AND STRAIGHT MOUNT-OVERHEAD AT 23'
 (NEW 4-3, ON INPLACE CAPPED MID-MOUNT)
 1-4/c 14

④ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 5 FOOT MAST ARM EXTENSION
 LUMINAIRE-250 W HPS
 4-ONE WAY SIGNALS-OVERHEAD AT -5', 6', 17', 29'
 STRAP-ON MID-MAST ARM MOUNT AT 6' (FOR 3-1)
 2-ONE WAY SIGNALS-POLE MOUNTED 90/180 DEG
 2-SETS CD PED SIGNALS-POLE MOUNTED 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 R10-X12 SIGN PANEL-ADJACENT TO 3-2
 TYPE D SIGN PANEL-OVERHEAD AT 32'
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD AT 6' (Ø8,3)
 3/4" RSC EXTENSION OVER HEAD 3-1 (FOR EVP)
 EXTENDED INTO HH 10:
 3" RSC
 2-12/c 14
 1-6/c 14
 2-4/c 14
 1-3/c 14
 1-3/c 20
 2-2/c 14
 1-3/c 14 (LUM)
 1-1/c 6 (GRD)

② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 LUMINAIRE-250 W HPS
 2-ONE WAY SIGNALS-OVERHEAD AT 17' & 29'
 2-ONE WAY SIGNALS-POLE MOUNTED 90/180 DEG
 2-SETS CD PED SIGNALS-POLE MOUNTED 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 R10-X12 SIGN PANEL-NEAR END OF MAST ARM
 TYPE D SIGN PANEL-OVERHEAD AT 33'
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 EXTENDED INTO HH 5:
 3" RSC
 3-12/c 14
 2-4/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 ONE WAY SIGNAL AND MOUNT-OVERHEAD AT 0' (RELOCATE TO 6')
 (S & I) ONE WAY EVP DETECTOR & LIGHT AT 10' (Ø6,1)
 F & I 5-FOOT EXTENSION ON END OF MAST ARM
 1-ONE WAY SIGNAL AND ANGLE MOUNT-OVERHEAD AT -5' (NEW 1-3)
 STRAP-ON MID MAST ARM MOUNT AT 6' (FOR 1-1)
 MAST ARM HUB AT 10' FOR EVP
 ADJUST MAST ARM/POLE SO THAT ALL OVERHEAD SIGNAL HEADS ARE
 AT LEAST 17 FEET ABOVE GROUND LINE TO BOTTOM OF BACKGROUND
 SHIELD (CURRENTLY AT 16.6 FEET ABOVE GROUND LINE) (SEE
 SPECIAL PROVISIONS).

⑥ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
 5 FOOT MAST ARM EXTENSION
 LUMINAIRE-250 W HPS
 4-ONE WAY SIGNALS-OVERHEAD AT -5', 6', 17', 29'
 STRAP-ON MID-MAST ARM MOUNT AT 6' (FOR 5-1)
 2-ONE WAY SIGNALS-POLE MOUNTED 90/180 DEG
 2-SETS CD PED SIGNALS-POLE MOUNTED 90/180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 R10-X12 SIGN PANEL-ADJACENT TO 5-2
 TYPE D SIGN PANEL-OVERHEAD AT 32'
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG
 ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD AT 6' (Ø2,5)
 3/4" RSC EXTENSION OVER HEAD 5-1 FOR EVP
 EXTENDED INTO HH 14:
 3" RSC
 2-12/c 14
 1-6/c 14
 2-4/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 (MAINTAIN INPLACE) EQUIPMENT PAD FOUNDATION
 CONTROLLER AND CABINET
 SIGNAL SERVICE CABINET
 CONTROLLER CABINET TO HH 1:
 4" RSC
 4-12/c 14
 4-4/c 14
 2-3/c 14
 2-3/c 20
 19-2/c 14
 1-FO CABLE
 CONTROLLER CABINET TO HH 19:
 4" RSC
 4-12/c 14
 2-5/c 14
 4-4/c 14
 2-3/c 14
 3-3/c 20
 21-2/c 14
 CONTROLLER CABINET TO HH 1:
 3" RSC STUB OUT (EXTENDED)
 1-12/c 14
 2-6/c 14

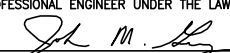
INPLACE (MAINTAIN INPLACE) SERVICE CABINET TO CONTROLLER CABINET:
 2" RSC
 3-1/c 6
 SERVICE CABINET TO HH 1:
 2" RSC
 4-3/c 14 (LUM)
 SERVICE CABINET TO SOP:
 2" RSC
 3-1/c 2


F & I - 1-4/c 14

F & I CONTROLLER CABINET TO FO VAULT 100:
 (**) 2" CONDUIT (CORE INTO
 CONTROLLER CABINET FOUNDATION)
 (**) 1-12 SM FO CABLE

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

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 Name: John M. Gray, PE
 Lic. No. 22457
 Date: July 7, 2021

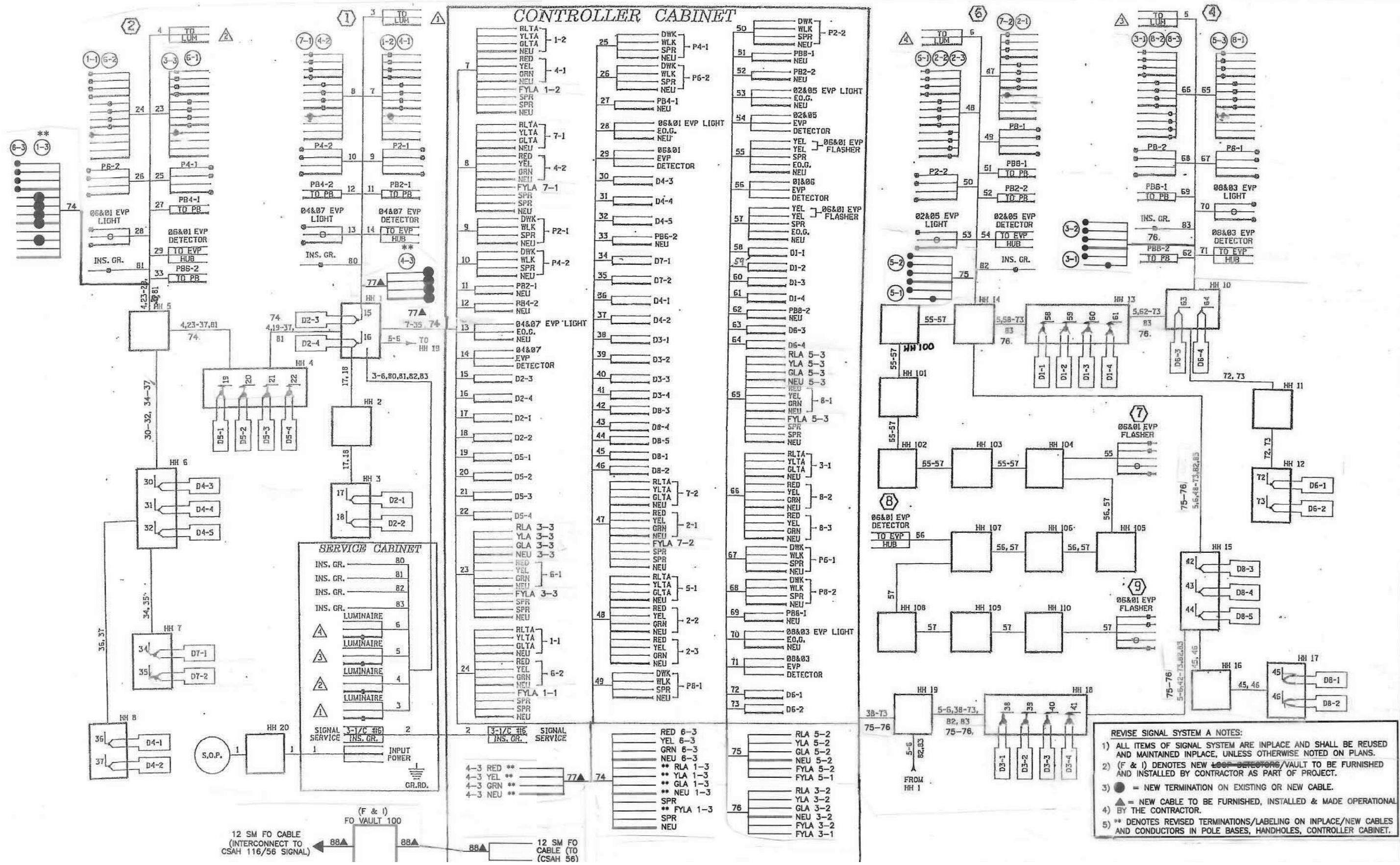
 PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY, MN
 CITY OF RAMSEY
 SAP 002-716-021
 SAP 199-104-014

REVISE SIGNAL SYSTEM "A"
 SIGNAL SYSTEM NOTES
 CSAH 116 (BUNKER LAKE BLVD NW)
 AT CSAH 83 (ARMSTRONG BLVD NW)

FILE NO. ANOKC 159572
 SIGNAL SHEET 9 OF 25
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REVISE SIGNAL SYSTEM 'A' NOTES:

- 1) ALL ITEMS OF SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- 2) (F & I) DENOTES NEW ~~LOOP DETECTORS~~/VAULT TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF PROJECT.
- 3) ● = NEW TERMINATION ON EXISTING OR NEW CABLE.
- 4) ▲ = NEW CABLE TO BE FURNISHED, INSTALLED & MADE OPERATIONAL BY THE CONTRACTOR.
- 5) ** DENOTES REVISED TERMINATIONS/LABELING ON INPLACE/NEW CABLES AND CONDUCTORS IN POLE BASES, HANDHOLES, CONTROLLER CABINET.

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 DESIGNER: JMG
 CHECKED BY: JMG
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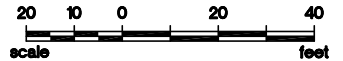
John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: July 7, 2021

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

ANOKA COUNTY, MN
CITY OF RAMSEY
 SAP 002-716-021
 SAP 199-104-014

REVISE SIGNAL SYSTEM 'A'
FIELD WIRING DIAGRAM
 CSAH 116 (BUNKER LAKE BLVD NW)
 AT CSAH 83 (ARMSTRONG BLVD NW)

FILE NO. ANOKC 159572
 SIGNAL SHEET 10 OF 25
189
259

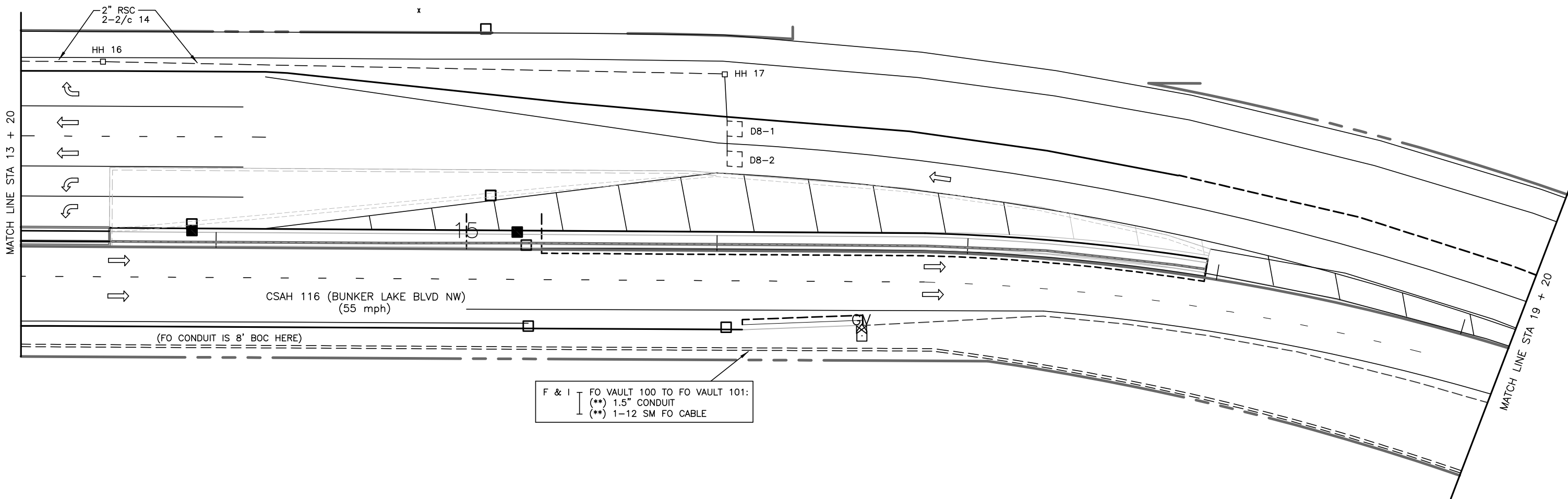


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INTERCONNECT NOTES:

- 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) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
- 3) (**) 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.
- 4) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.



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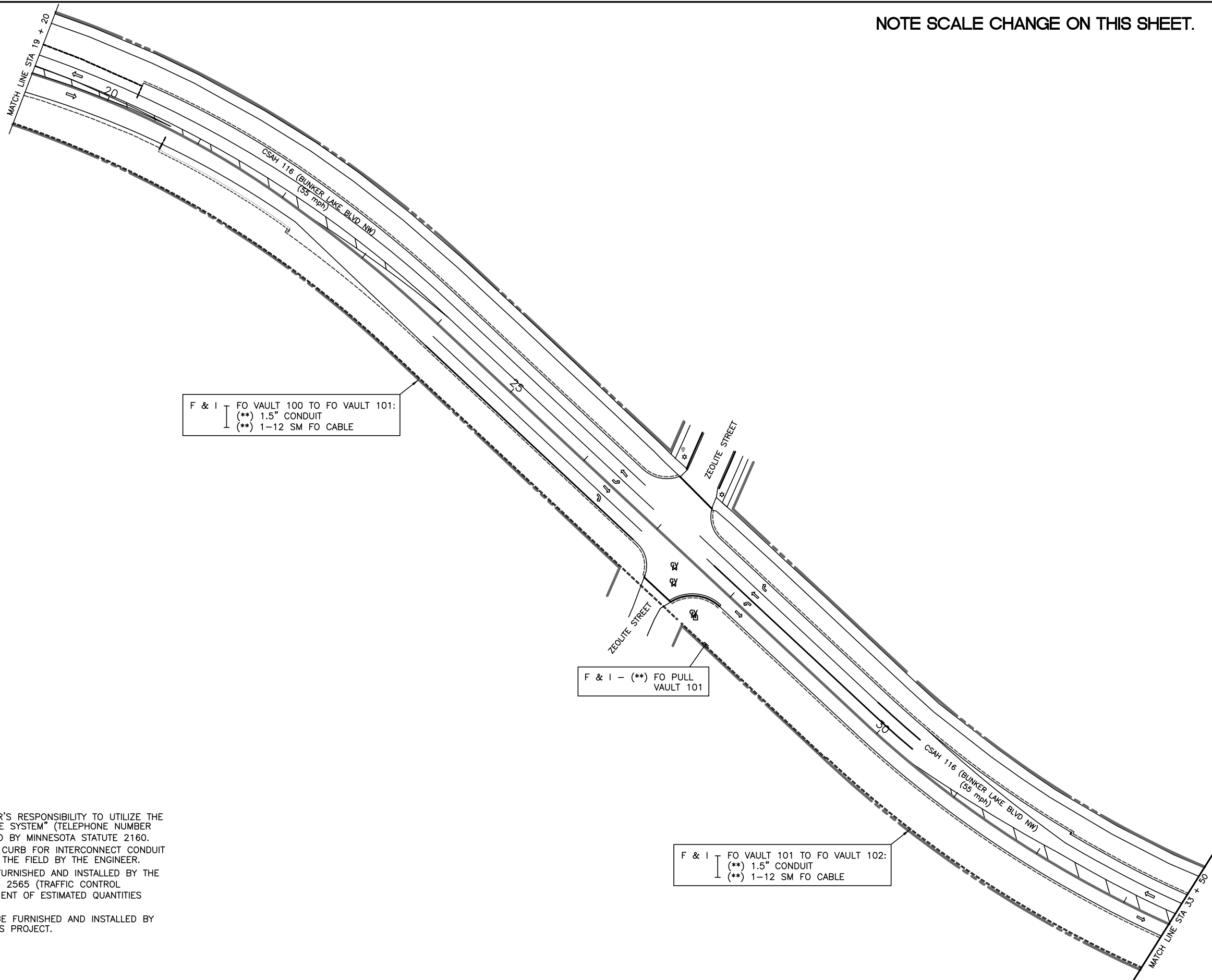
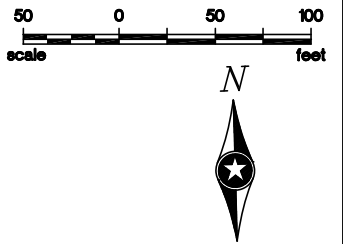
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ANOKA COUNTY, MN
 CITY OF RAMSEY
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 SAP 199-104-014

REVISE SIGNAL "A" / INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 116 (BUNKER LAKE BLVD NW)
 AT CSAH 83 (ARMSTRONG BLVD NW)

FILE NO. ANOKC 159572	190
SIGNAL SHEET 11 OF 25	

NOTE SCALE CHANGE ON THIS SHEET.



F & I | FO VAULT 100 TO FO VAULT 101:
 (**) 1.5" CONDUIT
 (**) 1-12 SM FO CABLE

F & I - (**) FO PULL VAULT 101

F & I | FO VAULT 101 TO FO VAULT 102:
 (**) 1.5" CONDUIT
 (**) 1-12 SM FO CABLE

INTERCONNECT NOTES:

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- 2) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
- 3) (**) 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.
- 4) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.

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SEH
 PHONE: (651) 490-2000
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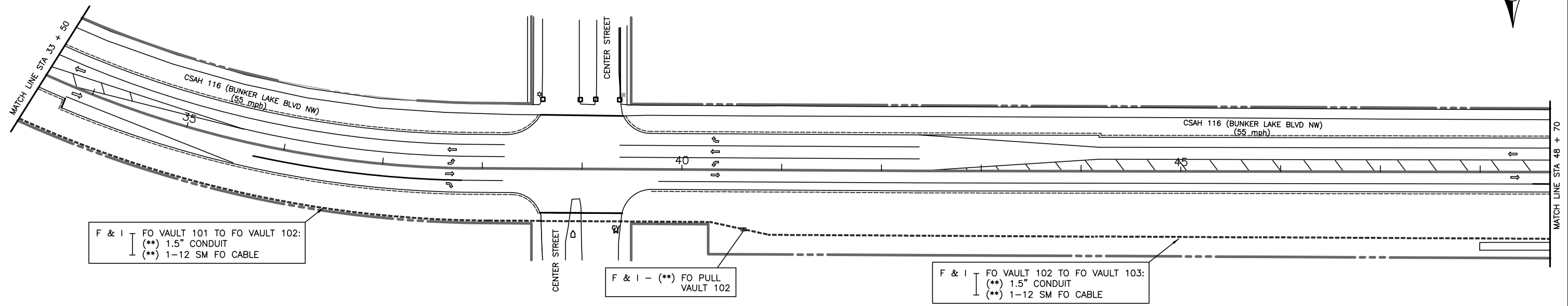
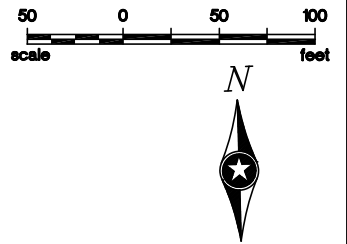
ANOKA COUNTY, MN
CITY OF RAMSEY
 SAP 002-716-021
 SAP 199-104-014

TRAFFIC CONTROL INTERCONNECT
INTERSECTION LAYOUT
CSAH 116 (BUNKER LAKE BLVD NW)
(CSAH 83 TO CSAH 56)

FILE NO.
 ANOKC 159572
 SIGNAL SHEET
 12 OF 25

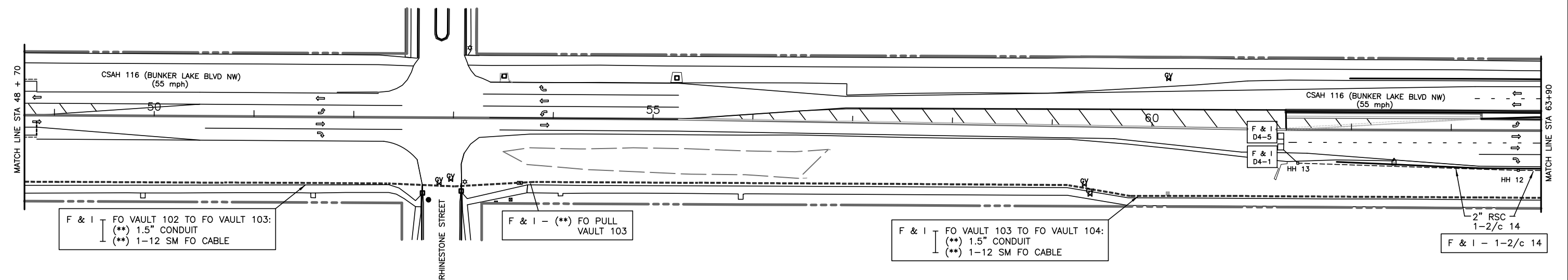
191
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NOTE SCALE CHANGE ON THIS SHEET.



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) DISTANCE OFF SHOULDER OR CURB FOR INTERCONNECT CONDUIT SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
- 3) (**) 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.
- 4) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
- 5) NEW LOOP DETECTORS FOR EB CSAH 116 WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 2565 (REVISE SIGNAL SYSTEM B).



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DESIGN TEAM	NO.	BY	DATE	REVISIONS

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 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY, MN
 CITY OF RAMSEY
 SAP 002-716-021
 SAP 199-104-014

REVISE SIGNAL "B"/INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 116 (BUNKER LAKE BLVD NW)
 (CSAH 83 TO CSAH 56)

FILE NO. ANOKC 159572
 SIGNAL SHEET 13 OF 25
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