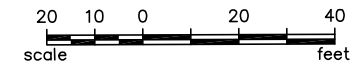


- NOTES:**
- 1) LOCATION OF FOUNDATIONS, LOOP DETECTORS, AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - 2) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 - 3) NEW HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
 - 4) A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE & CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED 6 FEET FROM END OF EACH MAST ARM (FOR EVP).
 - 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO ARRANGE FOR THE POWER CONNECTION (CONNEXUS). SEE SPECIAL PROVISIONS.
 - 6) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE FURNISHED AND INSTALLED BY CONTRACTOR (INCLUDED AS PART OF PAY ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM B").
 - 7) EACH PEDESTRIAN INDICATION SHALL BE ONE SECTION LED FILLED COUNTDOWN TIMER "HAND/WALKING PERSON" INDICATION.
 - 8) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - 9) SEE DETAILS, SPECIAL PROVISIONS & STATEMENT OF ESTIMATED QUANTITIES REGARDING BATTERY BACK-UP SIGNAL SERVICE CABINET TO BE FURNISHED AND INSTALLED BY CONTRACTOR (SEPARATE FROM ITEM NO. 2565 FOR THIS SIGNAL SYSTEM).
 - 10) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 3/4" N.M.C. SEE SPECIAL PROVISIONS.
 - 11) (*) DENOTES ITEMS TO BE INCLUDED AS PART OF THE PAY ITEM FOR ITEM NO. 2565 (EMERGENCY VEHICLE PREEMPTION SYSTEM "B"). SEE STATEMENT OF ESTIMATED AND SPECIAL PROVISIONS.

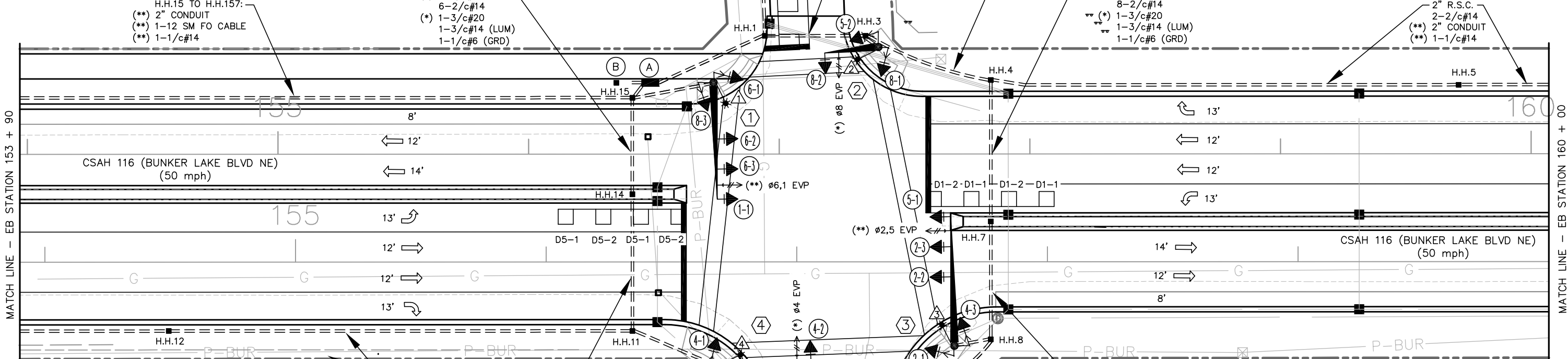
F & I N.M.C. LOOP DETECTORS			
NUMBER	SIZE (FT.)	LOCATION	FUNCTION
D1-1	2-6x6	15' & 45'	1
D1-2	2-6x6	0' & 30'	1
D2-1	6x6	400'	1
D2-2	6x6	400'	1
D4-1	6x6	120'	3,8
D4-2	2-6x8	0' & 15'	7
D5-1	2-6x6	15' & 45'	1
D5-2	2-6x6	0' & 30'	1
D6-1	6x6	400'	1
D6-2	6x6	400'	1
D8-1	6x6	250'	3,8
D8-2	2-6x6	0' & 15'	7
D8-3	2-6x6	0' & 15'	7

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

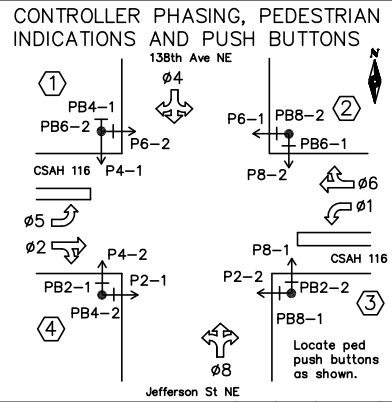
- LOOP DETECTORS FUNCTIONS:**
- 1) CALL AND EXTEND
 - 3) EXTEND ONLY
 - 7) DELAYED CALL, IMMEDIATE EXTEND
 - 8) CARRY OVER (STRETCH)



- (A) INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY) EQUIPMENT PAD FOUNDATION BBU SIGNAL SERVICE CABINET BETWEEN CONTROLLER CABINET AND SERVICE CABINET: METERED SIGNAL SERVICE**
- 2" R.S.C. 3-1/c#6
- CONTROLLER CABINET TO H.H.1:
4" R.S.C. 4" R.S.C.
2-12/c#14 3-12/c#14
(*) 1-3/c#14 (*) 1-3/c#14
5-2/c#14 11-2/c#14
(*) 1-3/c#20 (*) 1-3/c#20
1-1/c#6 (GRD) 1-1/c#6 (GRD)
- CONTROLLER CABINET TO H.H.15:
4" R.S.C. 4" R.S.C.
3-12/c#14 2-12/c#14
(*) 1-3/c#14 (*) 1-3/c#14
2-2/c#14 6-2/c#14
(*) 1-3/c#20 (*) 1-3/c#20
1-1/c#6 (GRD) 1-1/c#6 (GRD)
- SERVICE CABINET TO H.H.1:
1 1/4" R.S.C.
UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM)
- SERVICE CABINET TO H.H.15:
1 1/4" R.S.C.
UNMETERED STREET LIGHT SERVICE 2-3/c#14 (LUM)
- STUB OUT 1-2" R.S.C. FROM SERVICE CABINET TO WEST (FOR POWER CABLES BY CONNEXUS)
- STUB OUT 3" R.S.C. FROM CONTROLLER CABINET TO SOUTH (THREAD AND CAP-FOR FUTURE USE)
- STUB OUT 1" R.S.C. FROM CONTROLLER CABINET (FOR FUTURE PHONE LINE BY OTHERS)
- CONTROLLER CABINET TO H.H.1:
(**) 2" R.S.C.
(**) 1-1/c#14
- CONTROLLER CABINET TO H.H.15:
(**) 2" R.S.C.
(**) 1-12 SM FIBER-OPTIC CABLE
(**) 1-1/c#14



- 12) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "A"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 13) THE CONTRACTOR SHALL REMOVE, SALVAGE AND DISPOSE OF ALL ITEMS OF EXISTING PERMANENT SIGNAL SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIAL PROVISIONS (TO BE MEASURED AND PAID FOR SEPARATELY).



- SIGNAL SYSTEM OPERATIONS:**
- SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
 - NORMAL OPERATION SHALL BE 6 PHASE, WITH PHASES 1 & 5 BEING FLASHING YELLOW ARROWS (FLASH BY TIME OF DAY).
 - VEHICLE SIGNAL PHASES 2 AND 6 SHALL OPERATE ON RECALL.

CONTRACTOR SHALL FURNISH, INSTALL, COIL AND STORE 25' OF 1-2/c#14 IN HANDHOLES 1, 4, AND 9 (FOR FUTURE PUSH BUTTON INSTALLATIONS BY OTHERS).

SEE PREVIOUS SHEET FOR DETAILED POLE NOTES

LED SIGNAL FACES
ALL SIGNAL INDICATIONS SHALL BE 12"

SIGNAL FACE	R	Y	FYA	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	●	●	●	●

FYA = FLASHING YELLOW ARROW.

DRAWN BY: LC/JMG
DESIGNER: JMG
CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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Date: February 19, 2016 Name: John M. Gray, PE Lic. No. 22457

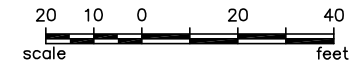
SEH
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY
CITY OF ANDOVER

TRAFFIC CONTROL SIGNAL SYSTEM 'C'
INTERSECTION LAYOUT
CSAH 116 AT JEFFERSON ST NE/138TH AVE NE

FILE NO. ANOKC 132658
364
SIGNAL SHEET 23 OF 32
482

S.P. 002-716-015

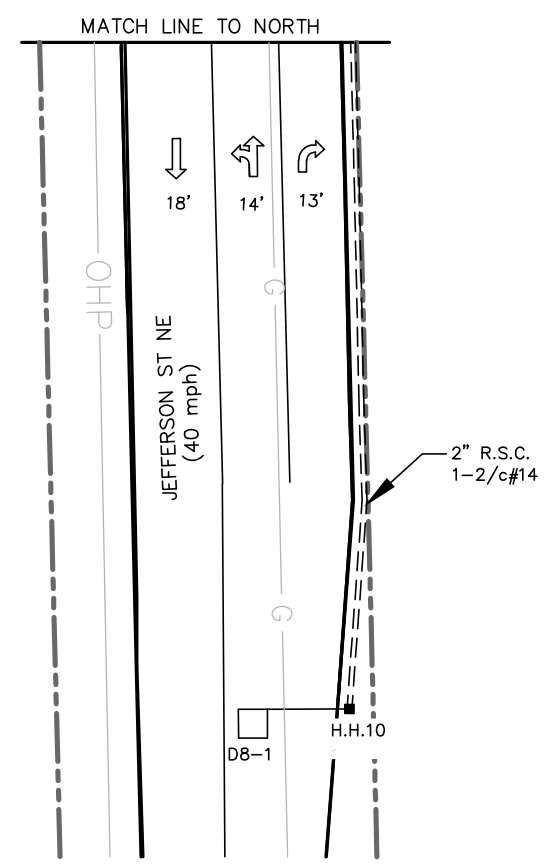


- ① PA100 POLE FOUNDATION
 TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
 LUMINAIRE-LED SHOEBOX
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0 DEG AND 180 DEG
 R10-X12 SIGN PANEL-ADJACENT TO 1-1
 TYPE D SIGN PANEL-OVERHEAD (D-8)
 (*) INSTALL ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (FURNISHED BY COUNTY (#6,1))
 (*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT)
 EXTEND INTO H.H.15:
 3"R.S.C.
 3-12/c#14
 (*) 1-3/c#14
 2-2/c#14
 (*) 1-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

- ② PA85 POLE FOUNDATION
 TYPE PA85-A-20-D30-9 (DAVIT AT 350 DEG.)
 LUMINAIRE-LED SHOEBOX
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD (D-9)
 (*) INSTALL ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (FURNISHED BY COUNTY (#8))
 (*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT)
 EXTEND INTO H.H.3:
 3"R.S.C.
 2-12/c#14
 (*) 1-3/c#14
 2-2/c#14
 (*) 1-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

- ③ PA100 POLE FOUNDATION
 TYPE PA100-A-50-D30-9 (DAVIT AT 350 DEG)
 LUMINAIRE-LED SHOEBOX
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' & 23'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 2-R6-1 SIGN PANELS-POLE MOUNTED 0 DEG AND 180 DEG
 R10-X12 SIGN PANEL-ADJACENT TO 5-1
 TYPE D SIGN PANEL-OVERHEAD (D-10)
 (*) INSTALL ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (FURNISHED BY COUNTY (#2,5))
 (*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT)
 EXTEND INTO H.H.8:
 3"R.S.C.
 3-12/c#14
 (*) 1-3/c#14
 2-2/c#14
 (*) 1-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)

- ④ PA90 POLE FOUNDATION
 TYPE PA90-A-35-D30-9 (DAVIT AT 350 DEG)
 LUMINAIRE-LED SHOEBOX
 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG AND 180 DEG
 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG
 2-PEDESTRIAN PUSH BUTTONS & SIGNS (R10-3e)
 TYPE D SIGN PANEL-OVERHEAD (D-11)
 (*) INSTALL ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (FURNISHED BY COUNTY (#4))
 (*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT)
 EXTEND INTO H.H.11:
 3"R.S.C.
 2-12/c#14
 (*) 1-3/c#14
 2-2/c#14
 (*) 1-3/c#20
 1-3/c#14 (LUM)
 1-1/c#6 (GRD)



DRAWN BY: LC/JMG				
DESIGNER: JMG				
CHECKED BY: JMG				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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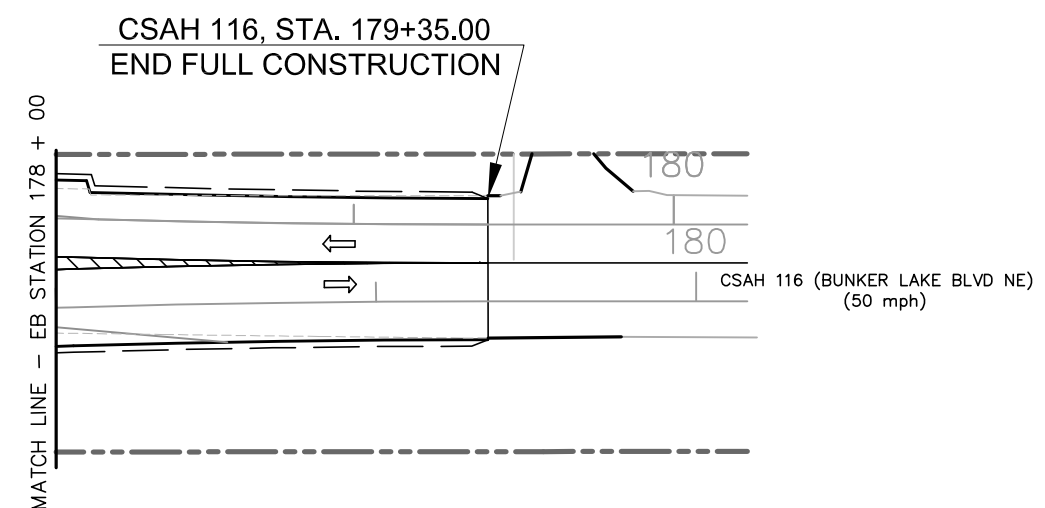
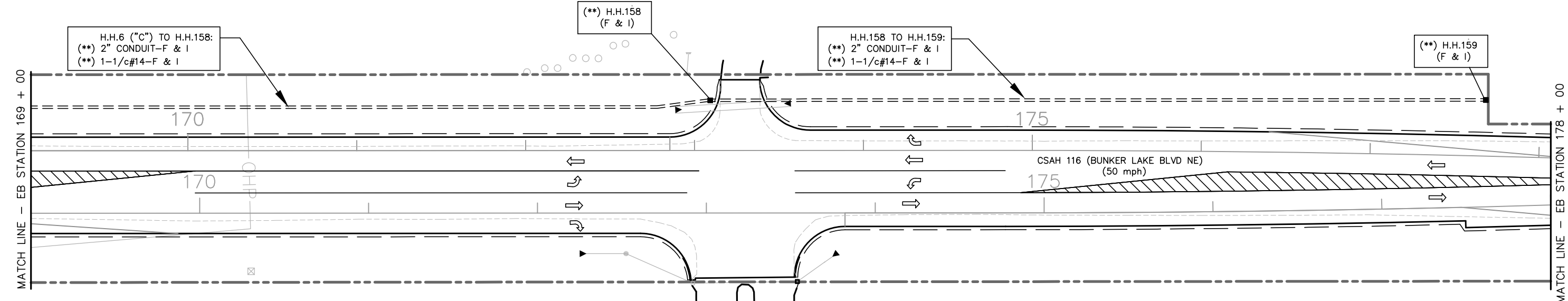
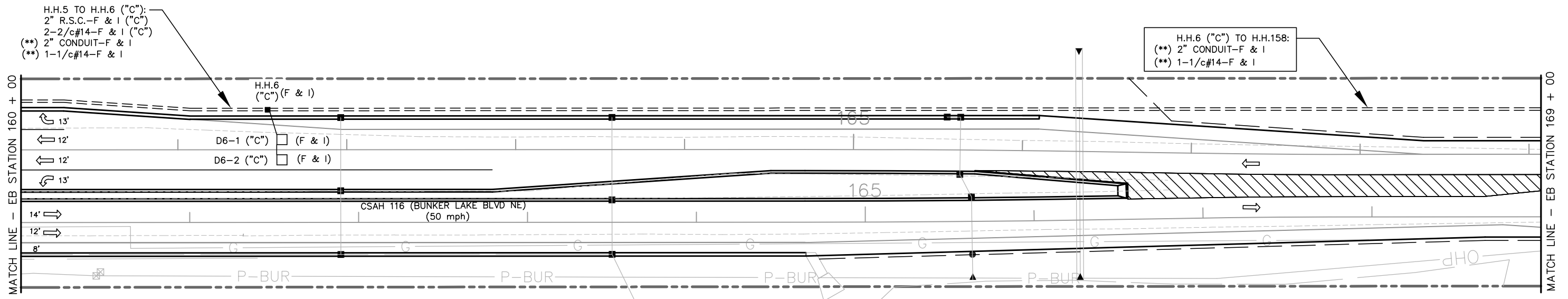
PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF ANDOVER

TRAFFIC CONTROL SIGNAL SYSTEM 'C'
 INTERSECTION LAYOUT
 CSAH 116 AT JEFFERSON ST NE/138TH AVE NE

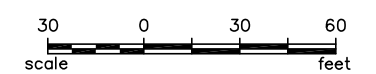
FILE NO. ANOKC 132658
 SIGNAL SHEET 24 OF 32
365
482

S.P. 002-716-015



- 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 1-2 FEET.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "A"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES TO BE FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
 - 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
 - 6) ITEMS DENOTED BY "C" SHALL BE INCLUDED AS PART OF THE PAY ITEM FOR ITEM NO. 2565 (TRAFFIC CONTROL SIGNAL SYSTEM "C").

NOTE SCALE CHANGE FROM OTHER PLAN SHEETS.



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DESIGNER: JMG				
CHECKED BY: JMG				
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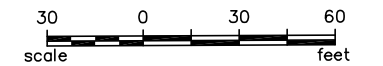
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 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF ANDOVER

TRAFFIC CONTROL SIGNAL SYSTEM 'C'
 INTERSECTION LAYOUT
 CSAH 116 AT JEFFERSON ST NE/138TH AVE NE

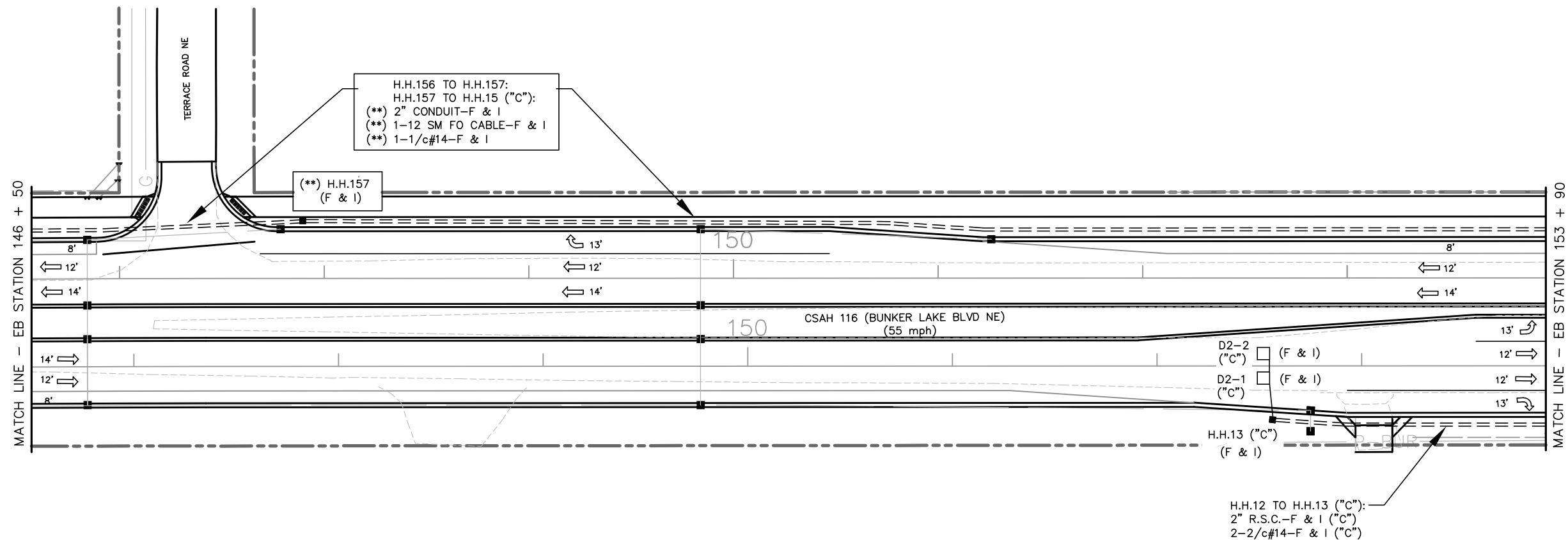
S.P. 002-716-015
 FILE NO. ANOKC 132658
 SIGNAL SHEET 26 OF 32
367
482

NOTE SCALE CHANGE FROM OTHER PLAN SHEETS.



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 1-2 FEET.
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- 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.
- 6) ITEMS DENOTED BY "C" SHALL BE INCLUDED AS PART OF THE PAY ITEM FOR ITEM NO. 2565 (TRAFFIC CONTROL SIGNAL SYSTEM "C").



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DESIGNER: JMG				
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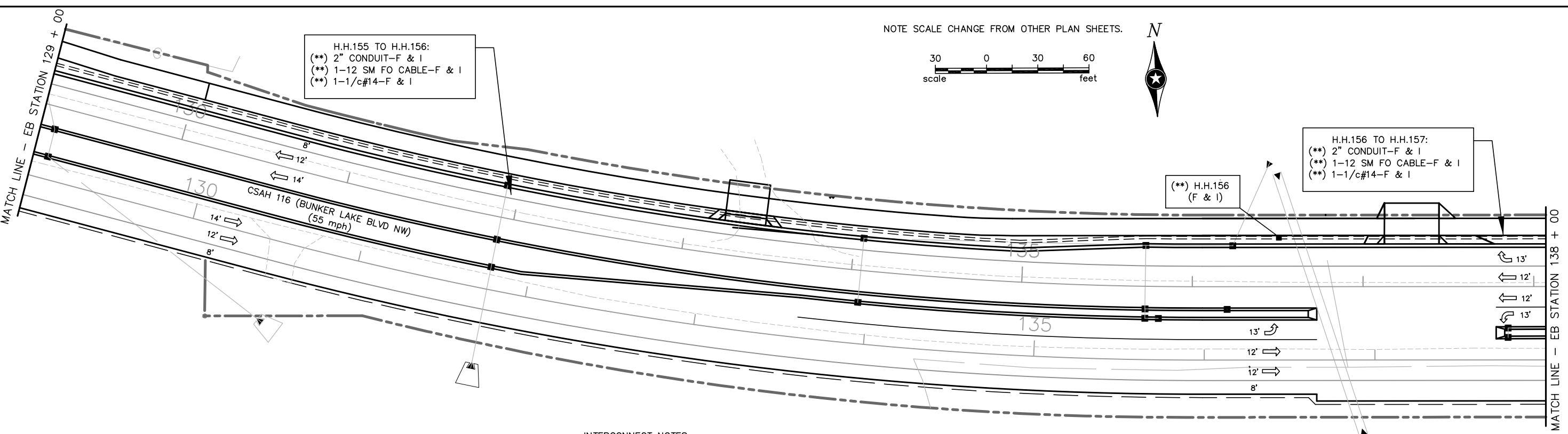
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ANOKA COUNTY
 CITY OF ANDOVER

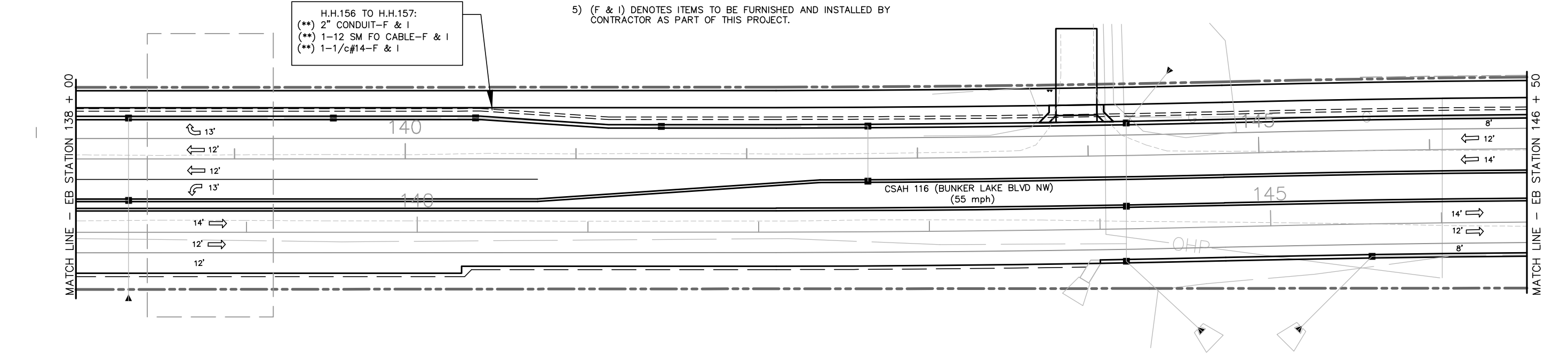
TRAFFIC SIGNAL SYSTEM 'C'/INTERCONNECT
INTERSECTION LAYOUT
 CSAH 116 (BUTTERNUT ST TO JEFFERSON ST)

FILE NO. ANOKC 132658
 SIGNAL SHEET 22 OF 32
363
482

S.P. 002-716-015



- 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 1-2 FEET.
 - 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "A"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 4) NEW HANDHOLES TO BE FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
 - 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.



DRAWN BY: LC/JMG
 DESIGNER: JMG
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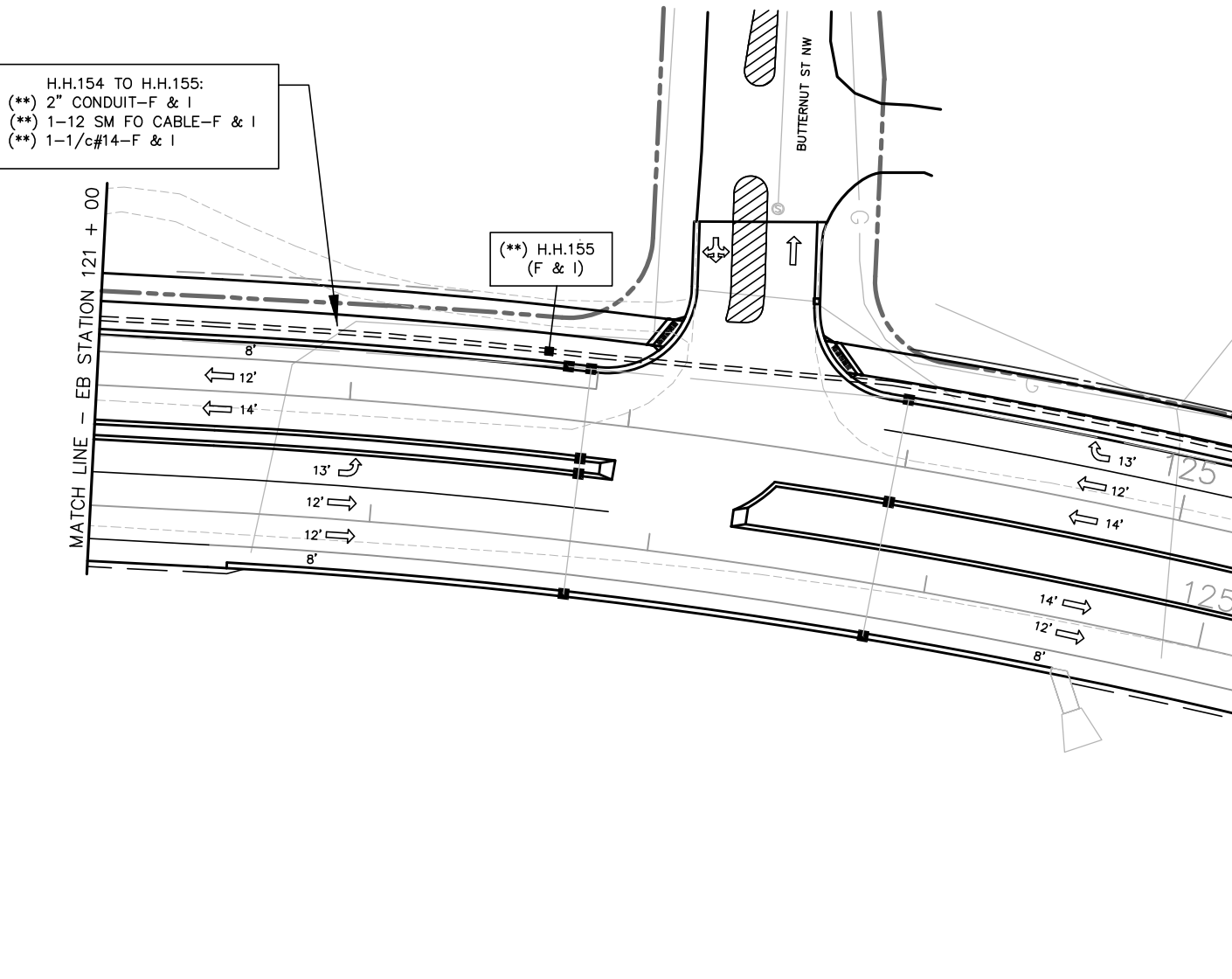
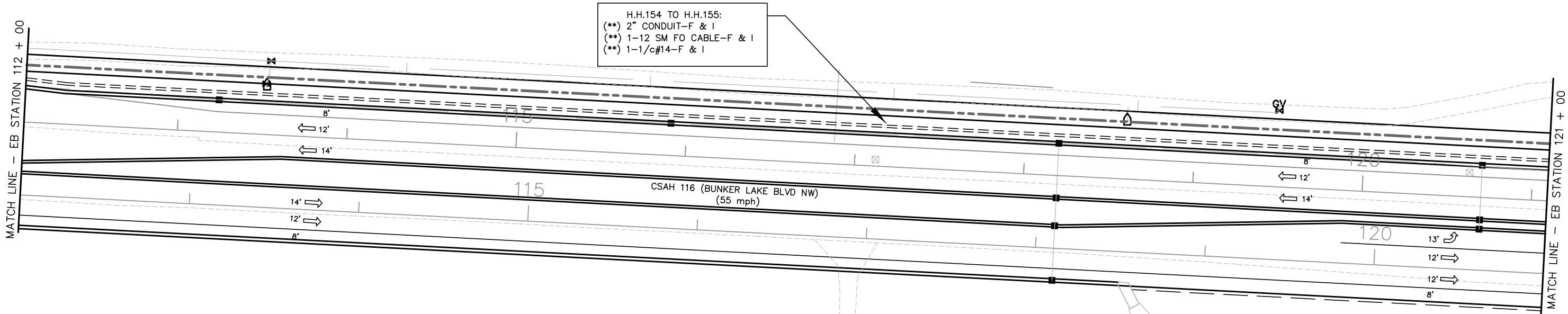
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ANOKA COUNTY
 CITY OF ANDOVER

**TRAFFIC CONTROL INTERCONNECT
 INTERSECTION LAYOUT**
 CSAH 116 (BUTTERNUT ST TO JEFFERSON ST)

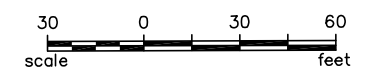
FILE NO. ANOKC 132658
 SIGNAL SHEET 21 OF 32
362
482

S.P. 002-716-015



- INTERCONNECT NOTES:**
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 - 5) (F & I) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR AS PART OF THIS PROJECT.

NOTE SCALE CHANGE FROM OTHER PLAN SHEETS.



H.H.155 TO H.H.156:
 (** 2" CONDUIT-F & I
 (** 1-12 SM FO CABLE-F & I
 (** 1-1/c#14-F & I

DRAWN BY: LC/JMG
 DESIGNER: JMG
 CHECKED BY: JMG

DESIGN TEAM	NO.	BY	DATE	REVISIONS

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John M. Gray
 Name: John M. Gray, PE
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 Date: February 19, 2016

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

ANOKA COUNTY
 CITY OF ANDOVER

TRAFFIC CONTROL INTERCONNECT
INTERSECTION LAYOUT
 CSAH 116 (GOLDENROD ST TO JEFFERSON ST)

FILE NO. ANOKC 132658
 SIGNAL SHEET 20 OF 32
361
482

S.P. 002-716-015

NOTE SCALE CHANGE FROM OTHER PLAN SHEETS.



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.
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- 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. 2565 (TRAFFIC CONTROL SIGNAL SYSTEM "B").

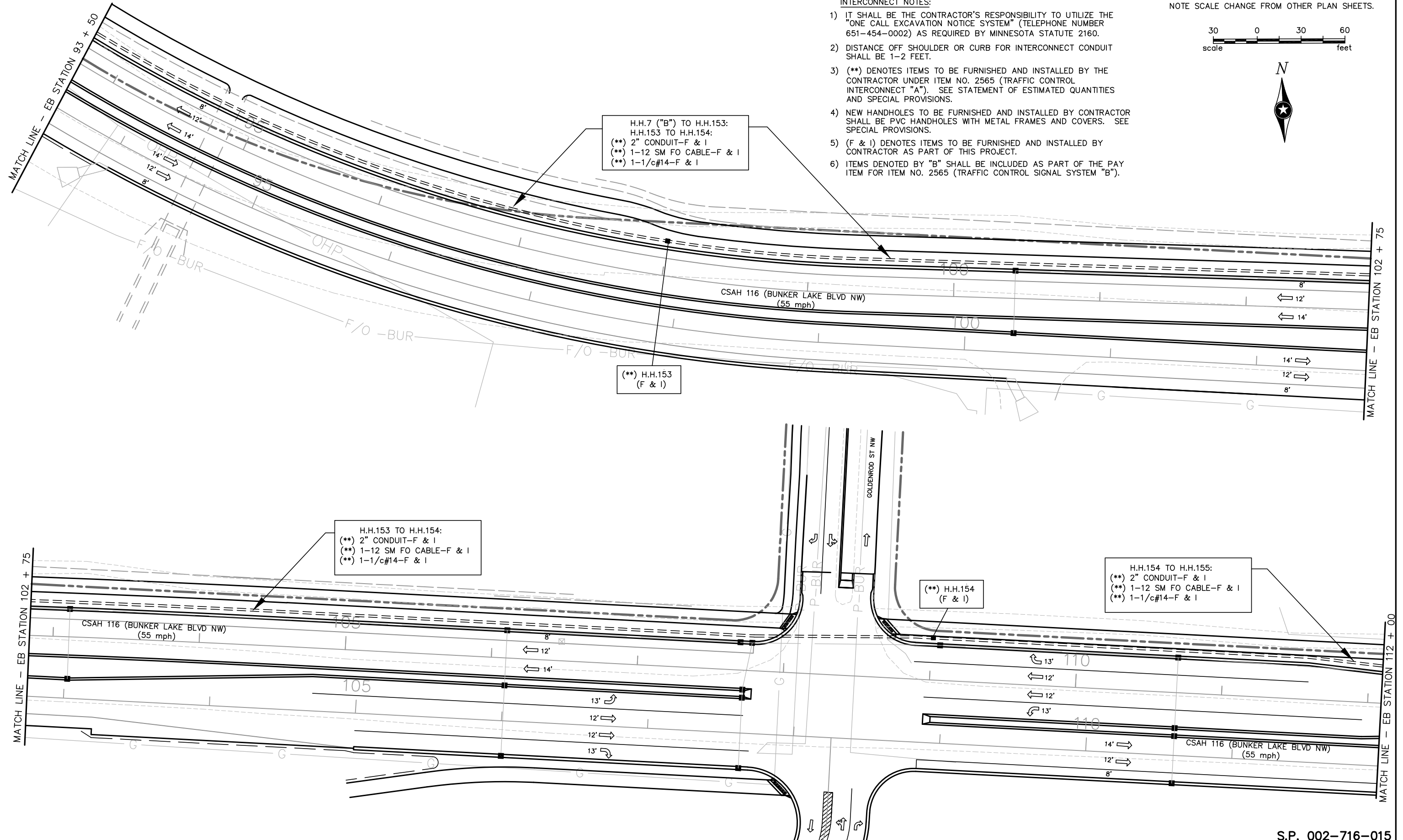
H.H.7 ("B") TO H.H.153:
 H.H.153 TO H.H.154:
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I

(**) H.H.153
 (F & I)

H.H.153 TO H.H.154:
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I

(**) H.H.154
 (F & I)

H.H.154 TO H.H.155:
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I



DRAWN BY: LC/JMG				
DESIGNER: JMG				
CHECKED BY: JMG				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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 Lic. No. 22457
 Date: February 19, 2016

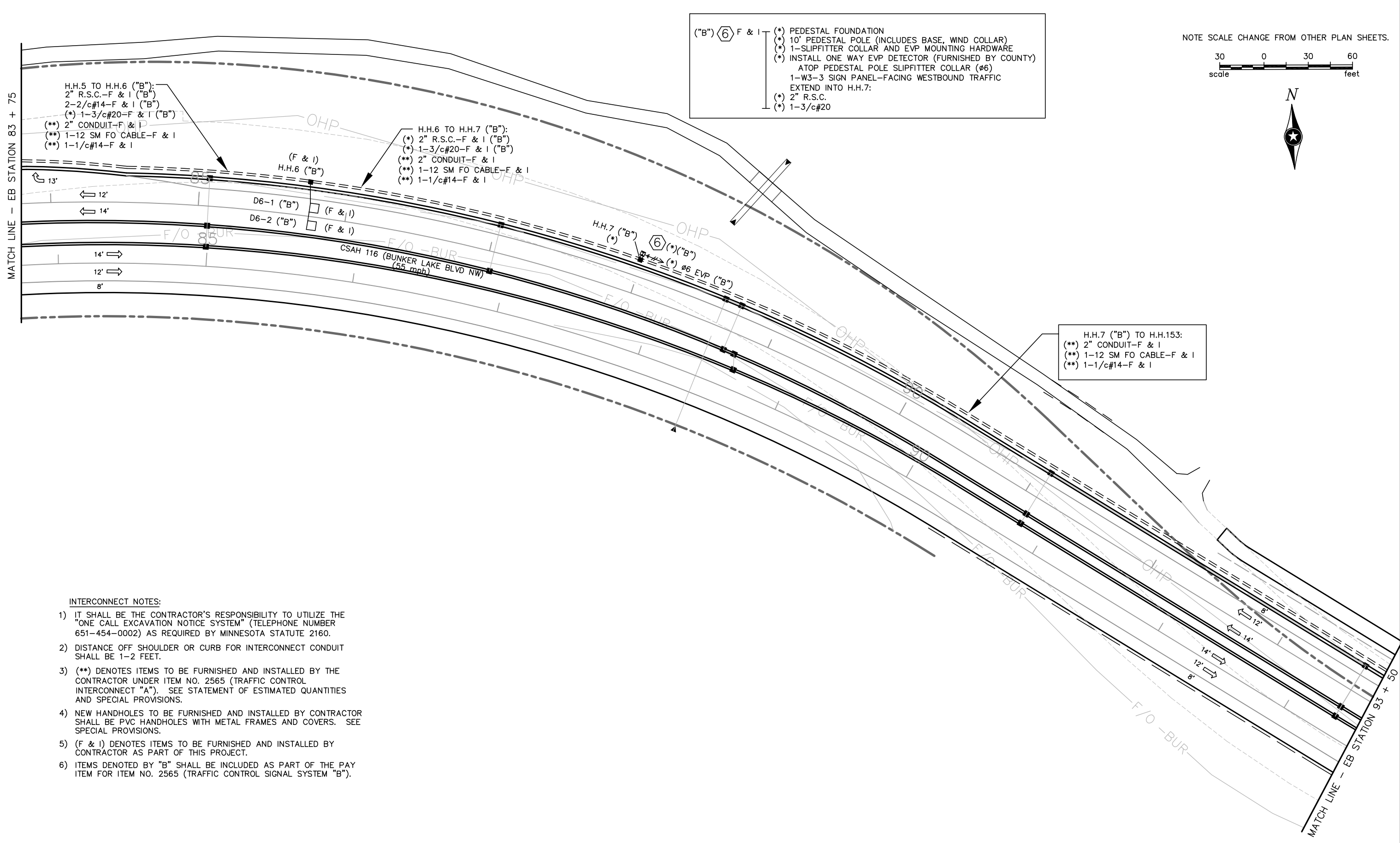
SEH
 PHONE: (651) 490-2000
 3535 VADNAIS CENTER DR.
 ST. PAUL, MN 55110

ANOKA COUNTY
 CITY OF ANDOVER

TRAFFIC CONTROL INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 116 (PRAIRIE RD TO BUTTERNUT ST)

S.P. 002-716-015
 FILE NO. ANOKC 132658
 SIGNAL SHEET 360
 19 OF 32
 482

MATCH LINE - EB STATION 83 + 75



- (*) PEDESTAL FOUNDATION
 (*) 10' PEDESTAL POLE (INCLUDES BASE, WIND COLLAR)
 (*) 1-SLIPFITTER COLLAR AND EVP MOUNTING HARDWARE
 (*) INSTALL ONE WAY EVP DETECTOR (FURNISHED BY COUNTY)
 ATOP PEDESTAL POLE SLIPFITTER COLLAR (#6)
 1-W3-3 SIGN PANEL-FACING WESTBOUND TRAFFIC
 EXTEND INTO H.H.7:
 (*) 2" R.S.C.
 (*) 1-3/c#20

NOTE SCALE CHANGE FROM OTHER PLAN SHEETS.



- H.H.5 TO H.H.6 ("B"):
 2" R.S.C.-F & I ("B")
 2-2/c#14-F & I ("B")
 (*) 1-3/c#20-F & I ("B")
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I

- H.H.6 TO H.H.7 ("B"):
 (*) 2" R.S.C.-F & I ("B")
 (*) 1-3/c#20-F & I ("B")
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I

- H.H.7 ("B") TO H.H.153:
 (**) 2" CONDUIT-F & I
 (**) 1-12 SM FO CABLE-F & I
 (**) 1-1/c#14-F & I

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 1-2 FEET.
- 3) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT "A"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 4) NEW HANDHOLES TO BE FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS. SEE SPECIAL PROVISIONS.
- 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. 2565 (TRAFFIC CONTROL SIGNAL SYSTEM "B").

S.P. 002-716-015

DRAWN BY: LC/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.

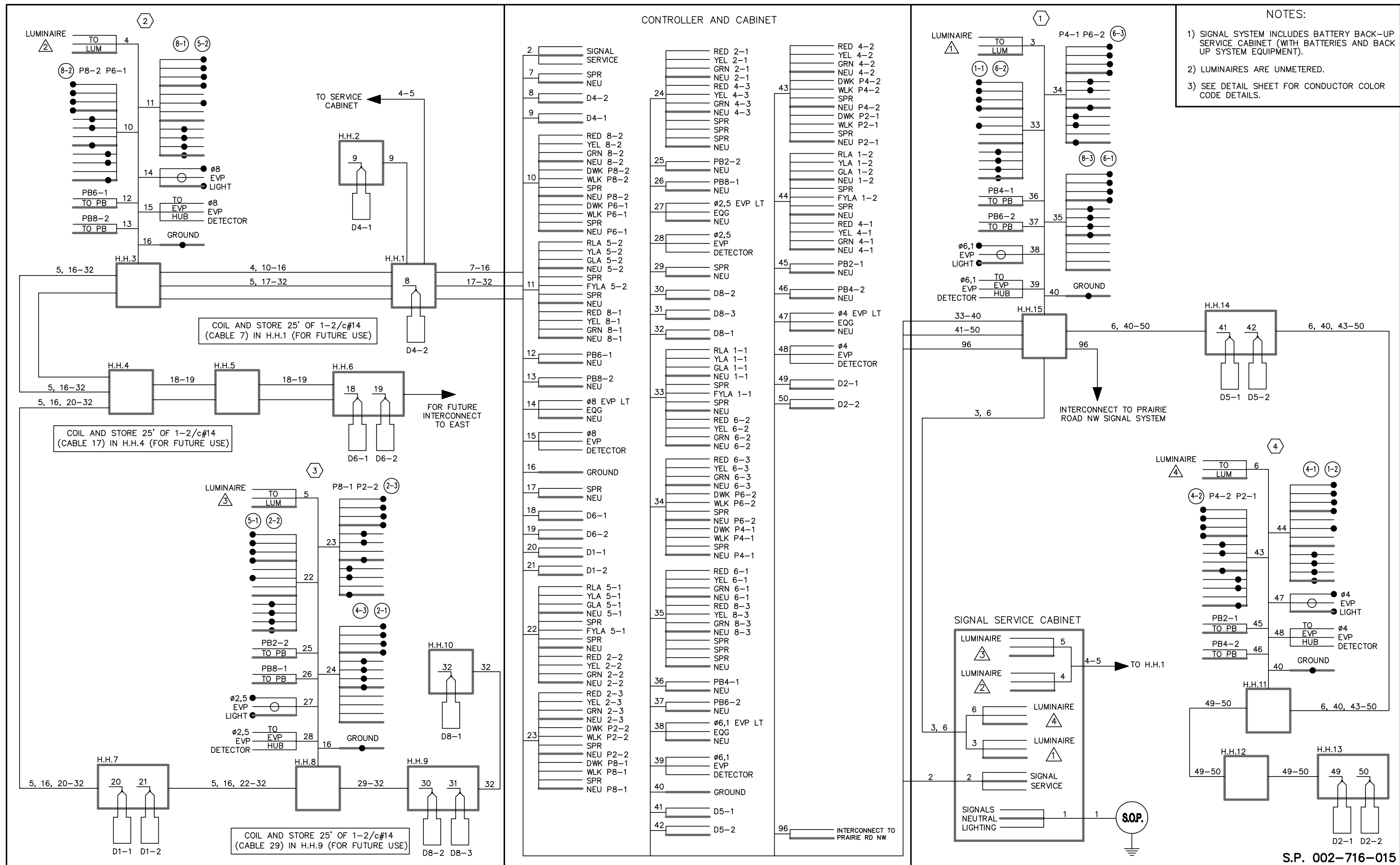
John M. Gray
 Name: John M. Gray, PE
 Lic. No. 22457
 Date: February 19, 2016

SEH
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ANOKA COUNTY
 CITY OF ANDOVER

TRAFFIC SIGNAL SYSTEM "B"/INTERCONNECT
INTERSECTION LAYOUT
 CSAH 116 (PRAIRIE RD TO GOLDENROD ST)

FILE NO. ANOKC 132658
 SIGNAL SHEET 18 OF 32
359
482



NOTES:
 1) SIGNAL SYSTEM INCLUDES BATTERY BACK-UP SERVICE CABINET (WITH BATTERIES AND BACK UP SYSTEM EQUIPMENT).
 2) LUMINAIRES ARE UNMETERED.
 3) SEE DETAIL SHEET FOR CONDUCTOR COLOR CODE DETAILS.

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

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 19, 2016 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 ANDOVER

TRAFFIC CONTROL SIGNAL SYSTEM 'C'
 FIELD WIRING DIAGRAM
 CSAH 116 AT JEFFERSON ST NE/138TH AVE NE

FILE NO. ANOK 132658
 SIGNAL SHEET 25 OF 32
 366
 482

S.P. 002-716-015