



SIGNAL HEAD CHART

FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3	○	○	○	○
3-1, 3-2	○	○	○	○
3-3, 3-4, 3-5	○	○	○	○
4-1, 4-2	○	○	○	○
4-3, 4-4	○	○	○	○
5-1, 5-2	←	←	←	←
6-1, 6-2, 6-3	○	○	○	○

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

LOOP DETECTOR CHART

NUMBER	SIZE (FT)	LOCATION	FUNCTION
D1-1	2-6X6	INP.	1
D1-2	2-6X6	INP.	1
D2-1, D2-2	6X6	INP.	1
D3-1	6X6	250	3,8
D3-2	2-6X6	INP.	1
D3-4, D3-6	2-6X6	INP.	1
D3-3, D3-5	2-6X6	INP.	1
D4-1	6X6	INP.	3,8
D4-3	2-6X6	INP.	1
D5-1	2-6X6	INP.	1
D5-2	2-6X6	INP.	1
D6-1, D6-2	6X6	INP.	1

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
 -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

FUNCTION:
 (1) CALL & EXTEND
 (3) EXTEND ONLY
 (8) CARRY OVER

② PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
 1-ONE WAY SIGNAL OVERHEAD AT 0'
 2-ONE WAY SIGNALS OVERHEAD AT 11' AND 23'

1-TYPE 10B AT 90 DEG
 1-TYPE 10B AT 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-LED
 1-R10-X12 SIGN ADJACENT TO SIGNAL INDICATION 5-1
 2-PEDESTRIAN PUSH BUTTONS
 EXTEND INTO HH 5:
 3" RSC
 2-12/C #12
 4-3/C #12
 1-3/C #12 (LUM)
 1-3/C #20

CSAH 1
 (COON RAPIDS BLVD)
 (45 M.P.H.)

4" RSC
 2-12/C #12
 4-3/C #12
 1-3/C #12 (LUM)
 6-2/C #14
 1-3/C #20

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

4" RSC
 2-12/C #12
 4-3/C #12
 1-3/C #12 (LUM)
 6-2/C #14
 1-3/C #20

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

4" RSC
 2-12/C #12
 4-3/C #12
 1-3/C #12 (LUM)
 10-2/C #14
 1-3/C #20
 1-5/C #14

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

4" RSC
 2-12/C #12
 4-3/C #12
 1-3/C #12 (LUM)
 10-2/C #14
 1-3/C #20
 1-5/C #14

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

③ PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 2-ONE WAY SIGNALS OVERHEAD AT 0' AND 14'

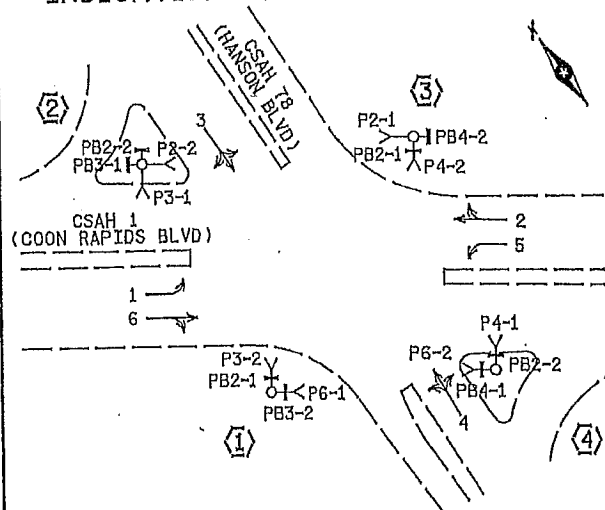
1-TYPE 10B AT 45 DEG
 1-TYPE 10B AT 225 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASE 4)
 LUMINAIRE-LED
 2-PEDESTRIAN PUSH BUTTONS
 EXTEND INTO HH 9:
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #12 (LUM)
 1-3/C #20

3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #12 (LUM)
 1-3/C #20

D5-2 D5-1
 12' 12'

4" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #12 (LUM)
 4-2/C #14
 1-3/C #20

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

(A) CONTROLLER AND CABINET

4" RSC TO HH 1:
 4-12/C #12
 7-3/C #12
 10-2/C #14
 2-3/C #20
 1-5/C #14

(*) 1-12 SM FIBER-OPTIC CABLE-F & I

4" RSC TO HH 16:
 4-12/C #12
 7-3/C #12
 9-2/C #14
 2-3/C #20

CONTROLLER CABINET TO HH 17:
 1 1/2" RSC
 3-1/C #6

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING FLASHING YELLOW ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

(B) SERVICE CABINET TO HH 16: (SERVICE)

2" RSC
 3-1/C #6

SERVICE CABINET TO HH 16: (LIGHTING)
 1 1/2" RSC
 4-3/C #12 (LUM)

SERVICE CABINET TO HH 17:
 1 1/2" RSC
 3-1/C #6

SOP WOOD POLE:
 2" RSC
 3-1/C #6

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) (*) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 3) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY BOTH (*) AND BY F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR).
- 4) SEE SPECIAL PROVISIONS FOR INFORMATION REGARDING LABOR AND MATERIALS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN EACH INPLACE TRAFFIC SIGNAL CONTROLLER CABINET AS PART OF THE "TRAFFIC CONTROL INTERCONNECT" PAY ITEM.
- 5) AS PART OF AN ONGOING COUNTY PROJECT BY OTHERS (UNDER SP 002-678-023), CSAH 78 WILL BE RECONSTRUCTED FROM NEAR INPLACE HANDHOLE 7 NORTH TO THE EXISTING EPIPHANY CHURCH DRIVEWAY. AS PART OF THAT CONSTRUCTION, NEW CONDUIT AND HANDHOLES WILL BE INSTALLED BY OTHERS FROM CSAH 1 TO THE SOUTHWEST CORNER AT 11TH AVENUE AT NO EXPENSE TO THE CONTRACTOR. THE CONTRACTOR FOR SP 002-678-021 SHALL COORDINATE NEW FIBER OPTIC CABLE INSTALLATION WORK FROM THE CSAH 1 CONTROLLER CABINET TO THE 11TH AVENUE CONTROLLER CABINET WITH THE NEW CONDUIT/HANDHOLE AND OTHER TRAFFIC SIGNAL REVISION WORK TO BE COMPLETED BY OTHERS AS PART OF THE SEPARATE ONGOING PROJECT (INCIDENTAL).

DRAWN BY: JMG
 DESIGNER: JMG
 CHECKED BY: JMG

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.

Date: May 29, 2018 Name: John M. Gray, PE
 Lic. No. 22457



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

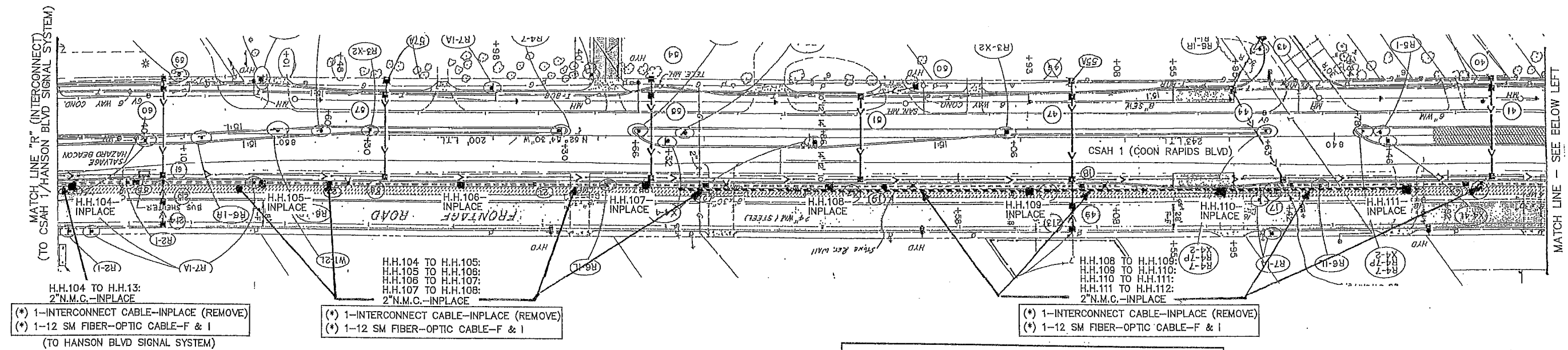
ANOKA COUNTY, MN
 CITY OF COON RAPIDS
 STATE PROJECT 002-678-021

TRAFFIC SIGNAL INTERCONNECT
 INTERSECTION LAYOUT
 CSAH 78 (HANSON BLVD) AT
 CSAH 1 (COON RAPIDS BLVD)

FILE NO.
 ANOKA 12292B

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 29

7013



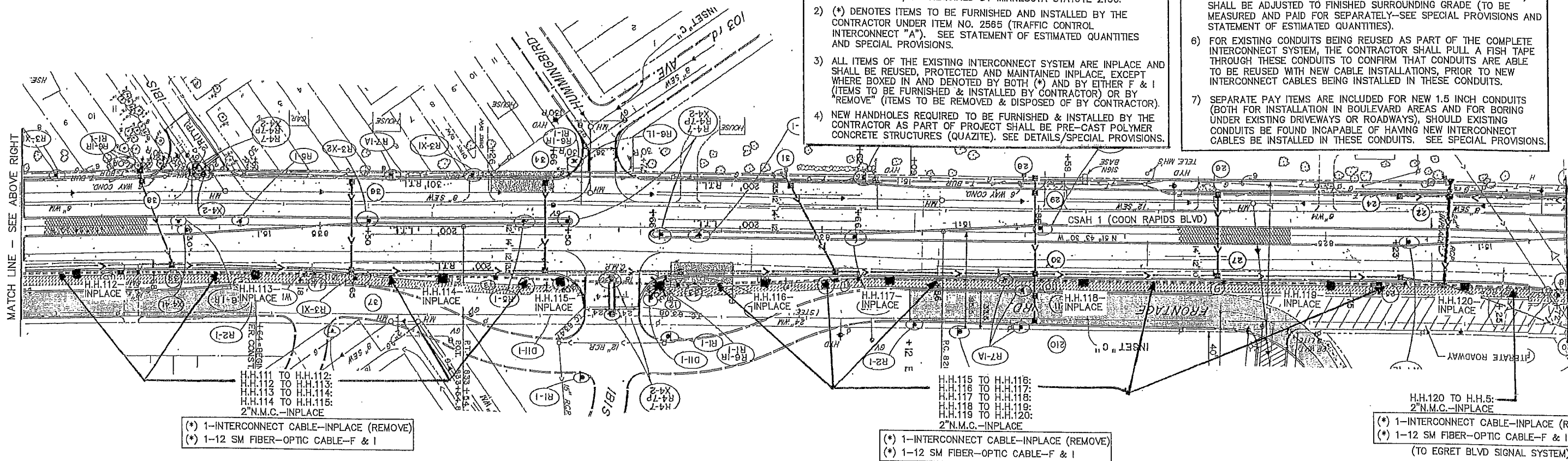
H.H.104 TO H.H.13:
2"N.M.C.-INPLACE
(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I
(TO HANSON BLVD SIGNAL SYSTEM)

(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-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) (*) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER ITEM NO. 2585 (TRAFFIC CONTROL INTERCONNECT "A"). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 3) ALL ITEMS OF THE EXISTING INTERCONNECT SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY BOTH (*) AND BY EITHER F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR) OR BY "REMOVE" (ITEMS TO BE REMOVED & DISPOSED OF BY CONTRACTOR).
- 4) NEW HANDHOLES REQUIRED TO BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF PROJECT SHALL BE PRE-CAST POLYMER CONCRETE STRUCTURES (QUAZITE). SEE DETAILS/SPECIAL PROVISIONS.
- 5) EXISTING CONCRETE HANDHOLES WITH CONCRETE OR TYPE LD COVERS IN BOULEVARD AREAS (USED WITH INTERCONNECT SYSTEM CABLES) SHALL BE ADJUSTED TO FINISHED SURROUNDING GRADE (TO BE MEASURED AND PAID FOR SEPARATELY-SEE SPECIAL PROVISIONS AND STATEMENT OF ESTIMATED QUANTITIES).
- 6) FOR EXISTING CONDUITS BEING REUSED AS PART OF THE COMPLETE INTERCONNECT SYSTEM, THE CONTRACTOR SHALL PULL A FISH TAPE THROUGH THESE CONDUITS TO CONFIRM THAT CONDUITS ARE ABLE TO BE REUSED WITH NEW CABLE INSTALLATIONS, PRIOR TO NEW INTERCONNECT CABLES BEING INSTALLED IN THESE CONDUITS.
- 7) SEPARATE PAY ITEMS ARE INCLUDED FOR NEW 1.5 INCH CONDUITS (BOTH FOR INSTALLATION IN BOULEVARD AREAS AND FOR BORING UNDER EXISTING DRIVEWAYS OR ROADWAYS), SHOULD EXISTING CONDUITS BE FOUND INCAPABLE OF HAVING NEW INTERCONNECT CABLES BE INSTALLED IN THESE CONDUITS. SEE SPECIAL PROVISIONS.



(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I

H.H.120 TO H.H.5:
2"N.M.C.-INPLACE
(*) 1-INTERCONNECT CABLE-INPLACE (REMOVE)
(*) 1-12 SM FIBER-OPTIC CABLE-F & I
(TO EGRET BLVD SIGNAL SYSTEM)

SLAE\ANOKA\COMMON SIGNALS\2017\INTERCONNECT\2017\7013.DWG

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.
Date: July 6, 2018
Name: John M. Gray, PE
Lic. No. 22457

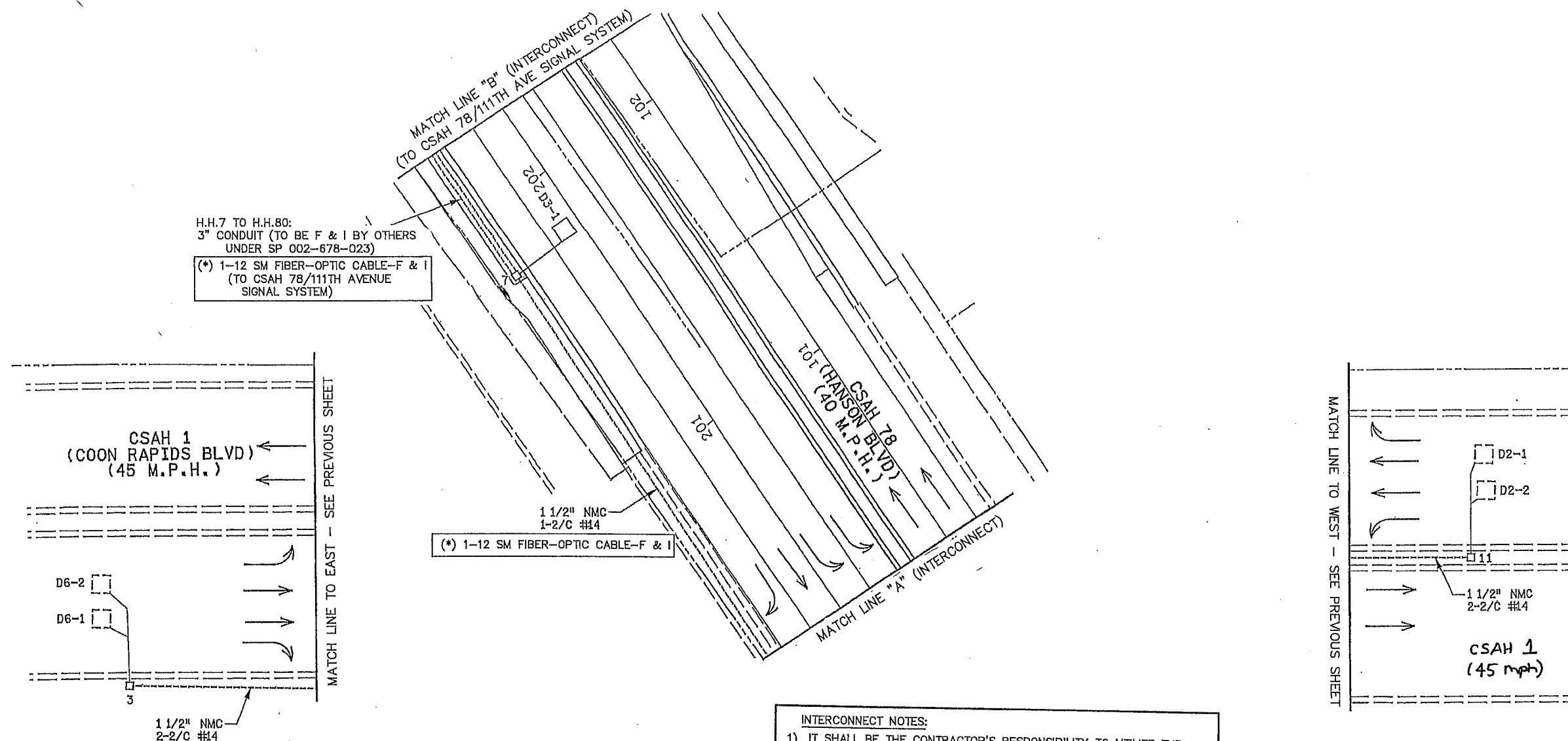
SEH
PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

ANOKA COUNTY, MN
CITY OF COON RAPIDS
SAP 002-030-010

TRAFFIC SIGNAL INTERCONNECT "A"
INTERSECTION LAYOUT
CSAH 1 (COON RAPIDS BLVD)
(HANSON BLVD TO EGRET BLVD)

FILE NO.
ANOKG 142312

20 0 20 40
scale feet



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) (*) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- 3) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY BOTH (*) AND BY F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR).
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- 5) AS PART OF AN ONGOING COUNTY PROJECT BY OTHERS (UNDER SP 002-678-023), CSAH 78 WILL BE RECONSTRUCTED FROM NEAR INPLACE HANDHOLE 7 NORTH TO THE EXISTING EPIPHANY CHURCH DRIVEWAY. AS PART OF THAT CONSTRUCTION, NEW CONDUIT AND HANDHOLES WILL BE INSTALLED BY OTHERS FROM CSAH 1 TO THE SOUTHWEST CORNER AT 111TH AVENUE AT NO EXPENSE TO THE CONTRACTOR. THE CONTRACTOR FOR SP 002-678-021 SHALL COORDINATE NEW FIBER OPTIC CABLE INSTALLATION WORK FROM THE CSAH 1 CONTROLLER CABINET TO THE 111TH AVENUE CONTROLLER CABINET WITH THE NEW CONDUIT/HANDHOLE AND OTHER TRAFFIC SIGNAL REVISION WORK TO BE COMPLETED BY OTHERS AS PART OF THE SEPARATE ONGOING PROJECT (INCIDENTAL).

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John M. Gray
Name: John M. Gray, PE
Date: May 29, 2018
Lic. No. 22457



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ANOKA COUNTY, MN
CITY OF COON RAPIDS

STATE PROJECT 002-678-021

TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 78 (HANSON BLVD) AT
CSAH 1 (COON RAPIDS BLVD)

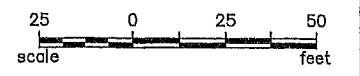
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ANOKC 122928

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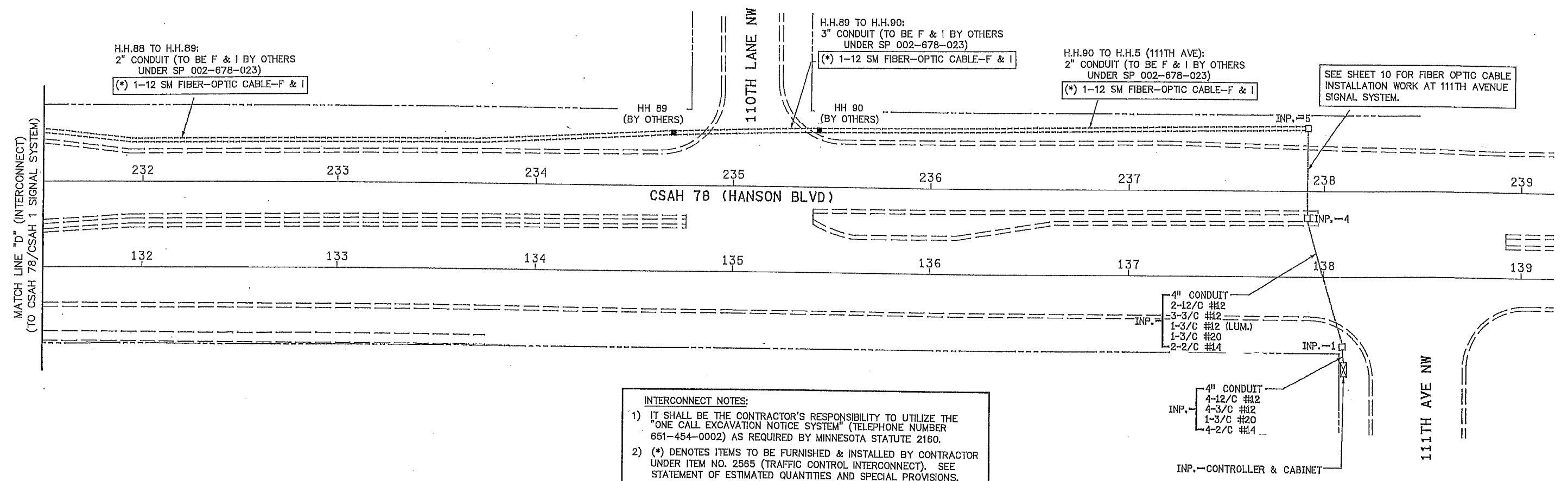
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NOTE SCALE CHANGE ON THIS PLAN SHEET.



- 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) (*) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
 - 3) ALL ITEMS SHOWN ON THIS PLAN SHEET WILL BE FURNISHED AND INSTALLED BY OTHERS AS PART OF SP 002-678-023, EXCEPT FOR ITEMS BOXED IN AND DENOTED BY BOTH (*) AND BY F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR AS PART OF SP 002-678-021).
 - 4) AS PART OF AN ONGOING COUNTY PROJECT BY OTHERS (UNDER SP 002-678-023), CSAH 78 WILL BE RECONSTRUCTED THROUGH THIS AREA AND NORTH TO THE EXISTING EPIPHANY CHURCH DRIVEWAY. AS PART OF THAT CONSTRUCTION, NEW CONDUIT AND HANDHOLES WILL BE INSTALLED BY OTHERS FROM CSAH 1 TO THE SOUTHWEST CORNER AT 111TH AVENUE AT NO EXPENSE TO THE CONTRACTOR. THE CONTRACTOR FOR SP 002-678-021 SHALL COORDINATE NEW FIBER OPTIC CABLE INSTALLATION WORK FROM THE CSAH 1 CABINET TO THE 111TH AVENUE CONTROLLER CABINET WITH THE NEW CONDUIT/HANDHOLE AND OTHER TRAFFIC SIGNAL WORK TO BE COMPLETED BY OTHERS AS PART OF THE SEPARATE ONGOING PROJECT (INCIDENTAL).

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DESIGNER: JMG
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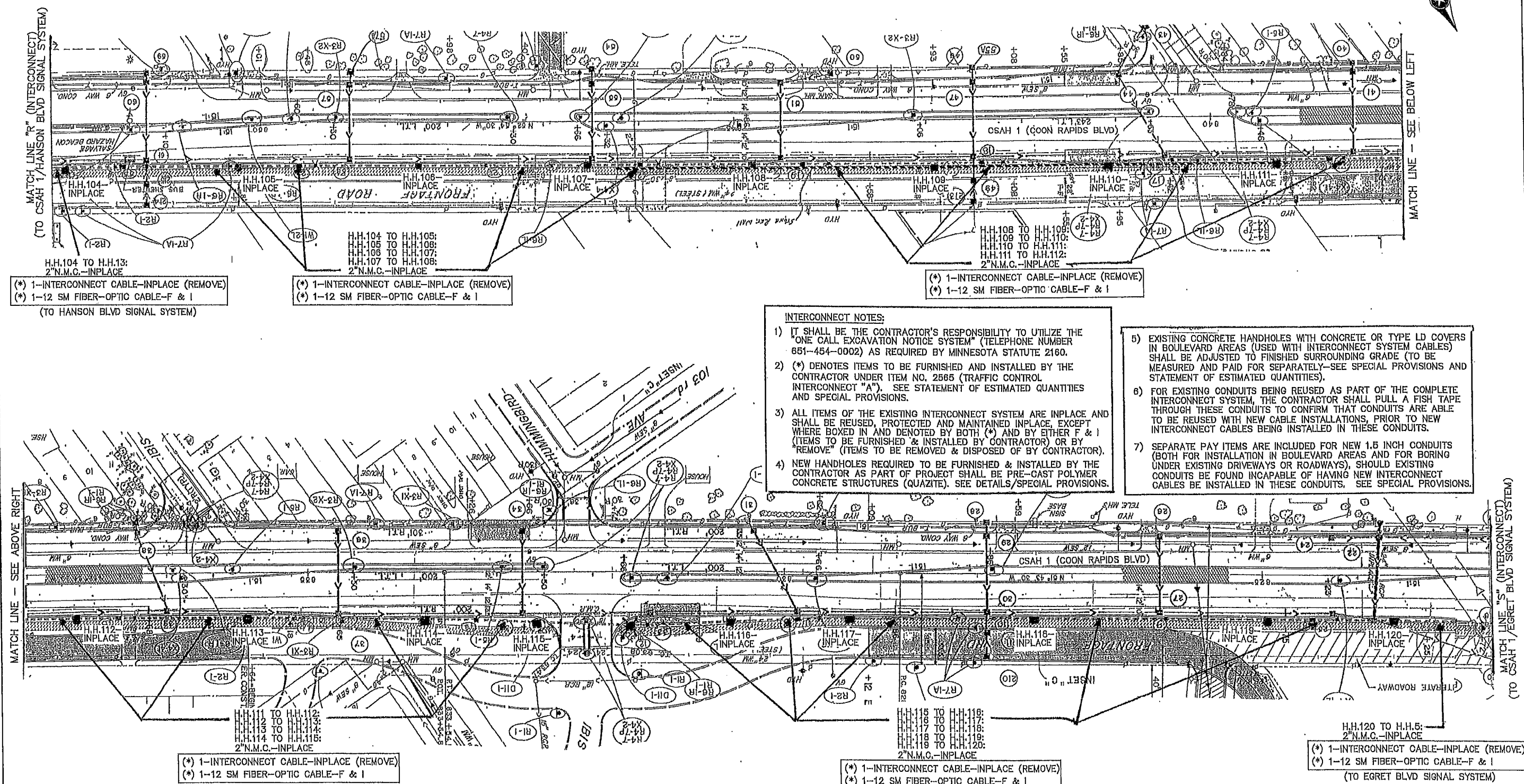
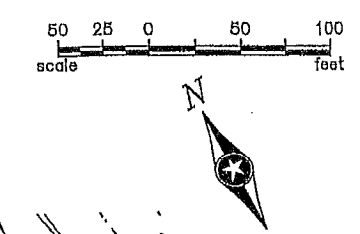
John M. Gray
Name: John M. Gray, PE
Date: May 29, 2018
Lic. No. 22457

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

ANOKA COUNTY, MN
CITY OF COON RAPIDS
STATE PROJECT 002-678-021

TRAFFIC SIGNAL INTERCONNECT
INTERSECTION LAYOUT
CSAH 78 (HANSON BLVD)
(CSAH 1 TO 111TH AVENUE)

FILE NO.
ANOKC 122928



- 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) (*) 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.
 - 3) ALL ITEMS OF THE EXISTING INTERCONNECT SYSTEM ARE INPLACE AND SHALL BE REUSED, PROTECTED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED BY BOTH (*) AND BY EITHER F & I (ITEMS TO BE FURNISHED & INSTALLED BY CONTRACTOR) OR BY "REMOVE" (ITEMS TO BE REMOVED & DISPOSED OF BY CONTRACTOR).
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 - 5) EXISTING CONCRETE HANDHOLES WITH CONCRETE OR TYPE LD COVERS IN BOULEVARD AREAS (USED WITH INTERCONNECT SYSTEM CABLES) SHALL BE ADJUSTED TO FINISHED SURROUNDING GRADE (TO BE MEASURED AND PAID FOR SEPARATELY-SEE SPECIAL PROVISIONS AND STATEMENT OF ESTIMATED QUANTITIES).
 - 6) FOR EXISTING CONDUITS BEING REUSED AS PART OF THE COMPLETE INTERCONNECT SYSTEM, THE CONTRACTOR SHALL PULL A FISH TAPE THROUGH THESE CONDUITS TO CONFIRM THAT CONDUITS ARE ABLE TO BE REUSED WITH NEW CABLE INSTALLATIONS, PRIOR TO NEW INTERCONNECT CABLES BEING INSTALLED IN THESE CONDUITS.
 - 7) SEPARATE PAY ITEMS ARE INCLUDED FOR NEW 1.5 INCH CONDUITS (BOTH FOR INSTALLATION IN BOULEVARD AREAS AND FOR BORING UNDER EXISTING DRIVEWAYS OR ROADWAYS), SHOULD EXISTING CONDUITS BE FOUND INCAPABLE OF HAVING NEW INTERCONNECT CABLES BE INSTALLED IN THESE CONDUITS. SEE SPECIAL PROVISIONS.

SEE ANOKA COUNTY SIGNALS 2017 INTERCONNECT CABLES 7013

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.		SEH		PHONE: (651) 490-2000 3535 VADNAIS CENTER DR. ST. PAUL, MN 55110		ANOKA COUNTY, MN CITY OF COON RAPIDS SAP 002-030-010		TRAFFIC SIGNAL INTERCONNECT "A" INTERSECTION LAYOUT CSAH 1 (COON RAPIDS BLVD) (HANSON BLVD TO EGRET BLVD)		FILE NO. ANOKO 142312		29 115	
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