

PVC LOOP DETECTORS				
NUMBER	SIZE (FT.)	LOCATION	FUNCTION	STATUS
D1-1	2-6x6	10' & 40'	1	INPLACE
D1-2	2-6x6	-5' & 25'	1	INPLACE
D2-1	6x6	475'	1	INPLACE
D2-2	6x6	475'	1	INPLACE
D2-3	6x6	475'	1	INPLACE
D3-1	2-6x6	10' & 40'	1	INPLACE
D3-2	2-6x6	-5' & 25'	1	INPLACE
D4-1	6x6	475'	3,8	F & I
D4-2	6x6	475'	3,8	F & I
D4-3	2-6x6	0' & 15'	7	F & I
D4-4	2-6x6	0' & 15'	1	F & I
D4-5	2-6x6	0' & 15'	1	F & I
D5-1	2-6x6	10' & 40'	1	INPLACE
D5-2	2-6x6	10' & 40'	1	INPLACE
D5-3	2-6x6	-5' & 25'	1	INPLACE
D5-4	2-6x6	-5' & 25'	1	INPLACE
D6-1	6x6	475'	1	INPLACE
D6-2	6x6	475'	1	INPLACE
D6-3	6x6	475'	1	INPLACE
D7-1	2-6x6	15' & 45'	1	F & I
D7-2	2-6x6	0' & 30'	1	F & I
D8-1	6x6	475'	3,8	INPLACE
D8-2	2-6x6	5' & 20'	7	INPLACE
D8-3	2-6x6	5' & 20'	1	INPLACE
D8-4	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)

**SW QUADRANT:**  
REMOVE & REPLACE 1-CONCRETE SIDEWALK PANEL (APPROX. SIZE 5' x 5') FOR PUSH BUTTON STATION AND CONDUIT INSTALLATIONS (6" CONCRETE WALK)

**F & I - APS PUSH BUTTON STATION**  
(SEE DETAILS)  
1-APS PB & SIGN (RT ARROW) (PB6-2)  
EXTEND INTO HH 6A:  
1" CONDUIT  
1-1/c 6 INS. GR.  
INPLACE 1-2/c 14 (UNCOIL IN HH 6A AND EXTEND TO NEW PB STATION)

**HH 6 TO HH 7:**  
1.25" RSC-INPLACE (REMOVE)  
2-2/c 14-INPLACE (REMOVE)  
HH 6A TO HH 7A  
2" CONDUIT - F & I  
2-2/c 14 - F & I

**HH 6 TO HH 11:**  
3" RSC-INPLACE (REMOVE)  
3-2/c 14-INPLACE (REMOVE)  
HH 6A TO HH 9A  
3" CONDUIT - F & I  
3-2/c 14 - F & I

**HH 5 TO HH 6:**  
2" RSC-INPLACE (CUT AND EXTEND INTO NEW HH 6A)  
7-2/c 14-INPLACE (REMOVE)  
1-2/c 14-INPLACE (S & I)  
7-2/c 14 - F & I

**HH 4 TO HH 5:**  
4" NMC  
3-12/c 14  
1-3/c 14  
1-3/c 20  
3-2/c 14  
1-3/c 14 (LUM)  
1-1/c 6 (GRD)

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

MATCH LINE STA 274+25 - SEE SHEET SGL27



**(A) INSTALL VIDEO PROCESSOR, MONITOR, AND ALL REQUIRED VIDEO EQUIPMENT (FURNISHED BY COUNTY)**

**INPLACE (MAINTAIN INPLACE)**  
EQUIPMENT PAD FOUNDATION CONTROLLER AND CABINET  
BATTERY BACK-UP SIGNAL SERVICE CABINET BETWEEN CONTROLLER CABINET AND SERVICE CABINET:  
2" RSC  
3-1/c 6  
CONTROLLER CABINET TO HH 23:  
4" RSC  
3-12/c 14  
4" RSC  
3-12/c 14  
1-3/c 14  
1-3/c 20  
1-3/c 14  
8-2/c 14  
CONTROLLER CABINET TO HH 1:  
4" RSC  
3-12/c 14  
4" RSC  
3-12/c 14  
1-3/c 14  
1-3/c 20  
1-3/c 20  
5-2/c 14  
7-2/c 14

**INPLACE (MAINTAIN INPLACE)**  
CONTROLLER CABINET TO HH 1:  
2" RSC  
1-6/c FIBER OPTIC CABLE  
(\*\*) 1-12 SM FO CABLE-INPLACE (REMOVE)

**INPLACE (MAINTAIN INPLACE)**  
3" RSC STUBBED OUT FROM CONTROLLER CABINET TO NORTH (BOTH ENDS THREADED AND CAPPED-FOR FUTURE USE)  
F & I - (\*\*) 3" RSC STUB OUT FROM CABINET-INPLACE (EXTEND INTO FO VAULT 108)  
F & I - (\*\*) 1-12 SM FO CABLE

**INPLACE (MAINTAIN INPLACE)**  
7-2/c 14-INPLACE (REMOVE)  
7-2/c 14 - F & I

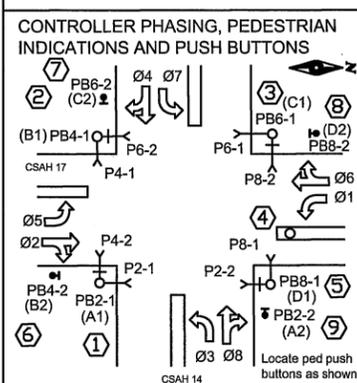
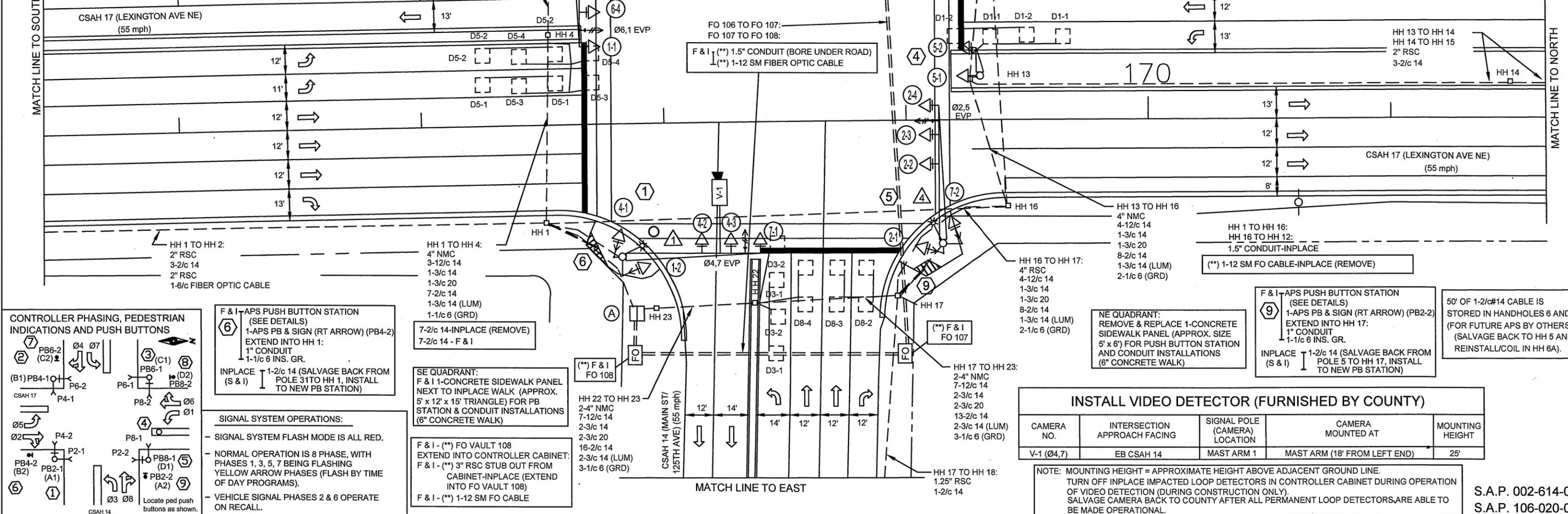
**INPLACE (MAINTAIN INPLACE)**  
3" RSC STUBBED OUT FROM CONTROLLER CABINET TO NORTH (BOTH ENDS THREADED AND CAPPED-FOR FUTURE USE)  
F & I - (\*\*) 3" RSC STUB OUT FROM CABINET-INPLACE (EXTEND INTO FO VAULT 108)  
F & I - (\*\*) 1-12 SM FO CABLE

**INPLACE (MAINTAIN INPLACE)**  
3" RSC STUBBED OUT FROM CONTROLLER CABINET TO NORTH (BOTH ENDS THREADED AND CAPPED-FOR FUTURE USE)  
F & I - (\*\*) 3" RSC STUB OUT FROM CABINET-INPLACE (EXTEND INTO FO VAULT 108)  
F & I - (\*\*) 1-12 SM FO CABLE

**INPLACE (MAINTAIN INPLACE)**  
3" RSC STUBBED OUT FROM CONTROLLER CABINET TO NORTH (BOTH ENDS THREADED AND CAPPED-FOR FUTURE USE)  
F & I - (\*\*) 3" RSC STUB OUT FROM CABINET-INPLACE (EXTEND INTO FO VAULT 108)  
F & I - (\*\*) 1-12 SM FO CABLE

MATCH LINE TO SOUTH

MATCH LINE TO NORTH



**F & I - APS PUSH BUTTON STATION**  
(SEE DETAILS)  
1-APS PB & SIGN (RT ARROW) (PB4-2)  
EXTEND INTO HH 1:  
1" CONDUIT  
1-1/c 6 INS. GR.  
INPLACE 1-2/c 14 (SALVAGE BACK FROM POLE 31 TO HH 1, INSTALL TO NEW PB STATION)

**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 PHASES (FLASH BY TIME OF DAY PROGRAMS).  
- VEHICLE SIGNAL PHASES 2 & 6 OPERATE ON RECALL.

**7-2/c 14-INPLACE (REMOVE)**  
7-2/c 14 - F & I

**SE QUADRANT:**  
F & I 1-CONCRETE SIDEWALK PANEL NEXT TO INPLACE WALK (APPROX. 5' x 12' x 15' TRIANGLE) FOR PB STATION & CONDUIT INSTALLATIONS (6" CONCRETE WALK)

**F & I - (\*\*) FO VAULT 108**  
EXTEND INTO CONTROLLER CABINET:  
F & I - (\*\*) 3" RSC STUB OUT FROM CABINET-INPLACE (EXTEND INTO FO VAULT 108)  
F & I - (\*\*) 1-12 SM FO CABLE

INSTALL VIDEO DETECTOR (FURNISHED BY COUNTY)				
CAMERA NO.	INTERSECTION APPROACH FACING	SIGNAL POLE (CAMERA) LOCATION	CAMERA MOUNTED AT	MOUNTING HEIGHT
V-1 (Ø4,7)	EB CSAH 14	MAST ARM 1	MAST ARM (18' FROM LEFT END)	25'

NOTE: MOUNTING HEIGHT = APPROXIMATE HEIGHT ABOVE ADJACENT GROUND LINE.  
TURN OFF INPLACE IMPACTED LOOP DETECTORS IN CONTROLLER CABINET DURING OPERATION OF VIDEO DETECTION (DURING CONSTRUCTION ONLY).  
SALVAGE CAMERA BACK TO COUNTY AFTER ALL PERMANENT LOOP DETECTORS ARE ABLE TO BE MADE OPERATIONAL.

S.A.P. 002-614-048  
S.A.P. 106-020-037

DRAWN BY: MRB  
DESIGNER: MRB  
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: February 7, 2022  
Name: John M. Gray, P.E.  
Lic. No.: 22457

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

**ANOKA COUNTY, MINNESOTA**  
CITY OF BLAINE

REVISE SIGNAL SYSTEM "C" / INTERCONNECT  
INTERSECTION LAYOUT  
CSAH14 (125TH AVENUE NE) AT  
CSAH 17 (LEXINGTON AVE)

FILE NO. ANOKC157553  
SIGNAL SHEET SGL28 OF SGL34  
**180**  
**303**

**SYSTEM "C" NOTES:**

- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
- LOCATION OF NEW FO VAULTS, HANDHOLES, PUSH BUTTON STATIONS, AND LOOP DETECTORS SHALL BE DETERMINED IN THE FIELD BY ENGINEER.
- AS PART OF THE "REVISE SIGNAL SYSTEM C" PAY ITEM, THE CONTRACTOR SHALL COMPLETE THE FOLLOWING WORK:
  - REMOVE AND DISPOSE OF INPLACE HANDHOLES 6, 7, 8, 9, 10, AND 11; FURNISH AND INSTALL NEW HANDHOLES 6A, 7A, 8A, AND 9A (PVC HANDHOLES WITH METAL FRAMES AND COVERS - SEE DETAILS & SPECIAL PROVISIONS FOR FURTHER INFORMATION).
  - REMOVE AND DISPOSE OF INPLACE CONDUITS BETWEEN HH 6-10 AND BETWEEN HH 6-11; FURNISH AND INSTALL NEW CONDUITS AS SHOWN BETWEEN HH 6A-8A AND BETWEEN HH 6A-9A; AND CUT AND EXTEND INPLACE 2" RSC BACK FROM HH 6 AND INSTALL INTO NEW HH 6A.
  - REMOVE AND DISPOSE OF INPLACE 2/C 14 CABLES AS SHOWN, AND FURNISH AND INSTALL NEW 2/C 14 CABLES TO NEW LOOP DETECTORS.
  - FURNISH AND INSTALL NEW LOOP DETECTORS D4-1, D4-2, D4-3, D4-4, D4-5, D7-1, AND D7-2 IN PVC PER DETAILS INCLUDED ELSEWHERE IN THESE PLANS, AND SPLICE NEW ROADWAY WIRES TO NEW LEAD-IN CABLES IN ADJACENT HANDHOLES (USING NEW LOOP DETECTOR SPLICE ENCAPSULATION KITS). NEW LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) #12 AWG IN 3/4" NMC (SEE SPECIAL PROVISIONS).
  - INSTALL, AIM, AND MAKE OPERATIONAL THE COUNTY FURNISHED VIDEO DETECTOR CAMERA AND MAST ARM EXTENSION ON MAST ARM 1 (FOR EASTBOUND VEHICULAR DETECTION DURING CONSTRUCTION AND WHEN PERMANENT EASTBOUND LOOP DETECTORS ARE NOT ABLE TO BE USED WITH THE EXISTING SIGNAL SYSTEM). CONTRACTOR SHALL FURNISH & INSTALL 3/C 14 CABLE FROM POLE BASE 1 TO THE MAST ARM MOUNTED VIDEO CAMERA (SPLICE TO INPLACE CABLE 7 IN POLE BASE 1) IN ACCORDANCE WITH VIDEO SYSTEM MANUFACTURERS SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR REAIMING VIDEO CAMERA AS NEEDED DURING CONSTRUCTION. AFTER PERMANENT LOOP DETECTORS ARE MADE OPERATIONAL, CONTRACTOR SHALL SALVAGE CAMERA AND MAST ARM EXTENSION TO COUNTY, SHALL REMOVE VIDEO CABLE, AND SHALL MAKE ALL PERMANENT LOOP DETECTORS OPERATIONAL.
  - BAG (COVER) & MAKE INOPERATIONAL ANY VEHICLE SIGNAL HEADS THAT CONFLICT WITH TRAFFIC PATTERNS DURING ALL STAGED ROAD CONSTRUCTION. AFTER IMPACTED APPROACH IS RETURNED TO NORMAL TRAFFIC PATTERNS, UNBAG AND MAKE THESE IMPACTED VEHICLE SIGNAL HEADS OPERATIONAL.
  - FURNISH AND INSTALL APS PUSH BUTTON STATIONS, APS PUSH BUTTONS, APS MAST ARM POLE ADAPTORS, AND 1-INCH CONDUIT TO PUSH BUTTON STATIONS; REMOVE AND REPLACE CONCRETE SIDEWALK TO ACCOMMODATE NEW PUSH BUTTON STATIONS; SALVAGE AND REINSTALL 2/C 14 CABLES TO NEW PUSH BUTTON STATIONS; SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS FROM EACH MAST ARM POLE; CAP HOLES ON MAST ARM POLES WHERE PUSH BUTTONS USED TO BE; AND COMPLETE ALL OTHER WORK NEEDED TO MAKE APS PUSH BUTTONS OPERATIONAL.
- ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, SIGNAL POLES, ETC.), EITHER DUE TO TRAFFIC SIGNAL REVISION WORK OR ROAD CONSTRUCTION WORK, SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
- CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY ENGINEER.
- F & I = NEW, FURNISH AND INSTALL.
- ALL CONDUIT, CABLES AND CONDUCTORS, HANDHOLES, AND LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND DENOTED OTHERWISE.
- (\*\*) DENOTES ITEMS TO BE FURNISHED AND INSTALLED (OR REMOVED AND DISPOSED OF BY THE CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- SEE DETAILS AND SPECIAL PROVISIONS REGARDING FIBER OPTIC VAULTS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

① INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
 LUMINAIRE-COBRAHEAD LED  
 3-ONE WAY SIGNALS-OVERHEAD (0, 11' AND 23' FROM END OF MAST ARM)  
 2-TYPE 10B-POLE MOUNTED 90/180 DEG  
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG  
 R10-X12 SIGN-ADJACENT TO 7-1  
 TYPE D SIGN PANEL-OVERHEAD AT 30'  
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø4,7)  
 EXTENDED INTO HH 1:  
 3" RSC  
 3-12/c 14  
 1-3/c 14  
 1-3/c 20  
 1-2/c 14  
 1-3/c 14 (LUM)  
 1-1/c 6 (GRD)

INSTALL VIDEO DETECTOR CAMERA AND MAST ARM EXTENSION (FURNISHED BY COUNTY) AT APPROX. 18' FROM END OF MAST ARM (V-1)  
 F & I 1-3/c 14 (SPLICE TO INPLACE CABLE 7 AND EXTEND FROM POLE BASE TO VIDEO DETECTOR CAMERA)  
 3/4" MAST ARM HUB AT 18' (FOR VIDEO CAMERA)

INPLACE (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS - POLE MOUNTED 0/270 DEG  
 INPLACE (S & I) 1-2/c 14 (CABLE 11) - SALVAGE BACK TO HH 1 AND EXTEND TO NEW PUSH BUTTON STATION (FOR PB4-2)  
 INPLACE (REMOVE) 2-PEDESTRIAN INSTRUCTION "STICKER" SIGNS  
 F & I 1-APS PUSH BUTTON, SIGN (LT ARROW), AND APS MAST ARM POLE ADAPTOR AT 270 DEG (PB2-1)  
 PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTONS USED TO BE (AT 0/270 DEG)

② INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
 LUMINAIRE-COBRAHEAD LED  
 4-ONE WAY SIGNALS-OVERHEAD (0', 14, 26, AND 38' FROM END OF MAST ARM)  
 3-WELDED MID MAST ARM MOUNTS (LOCATED AT 14', 26' AND 38' FROM END OF MAST ARM)  
 OPEN MID-MOUNTS CAPPED AT 17', 29', AND 41' FROM END OF MAST ARM  
 2-TYPE 10B-POLE MOUNTED 90/180 DEG  
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG  
 R10-X12 SIGN-ADJACENT TO 1-1  
 TYPE D SIGN PANEL-OVERHEAD AT 45'  
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø6,1)  
 EXTENDED INTO HH 5:  
 3" RSC  
 3-12/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 (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS - POLE MOUNTED AT 180/270 DEG  
 INPLACE (REMOVE) 2-PEDESTRIAN INSTRUCTION "STICKER" SIGNS  
 F & I 1-APS PUSH BUTTON, SIGN (LT ARROW), AND APS MAST ARM POLE ADAPTOR AT 270 DEG (PB4-1)  
 PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTONS USED TO BE (AT 180/270 DEG)

③ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
 LUMINAIRE-COBRAHEAD LED  
 3-ONE WAY SIGNALS-OVERHEAD (0', 11' AND 23' FROM END OF MAST ARM)  
 2-TYPE 10B-POLE MOUNTED 90/180 DEG  
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG  
 R10-X12 SIGN-ADJACENT TO 3-1  
 TYPE D SIGN PANEL-OVERHEAD AT 30'  
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø8,3)  
 EXTENDED INTO HH 12:  
 3" RSC  
 3-12/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 (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS - POLE MOUNTED AT 180/270 DEG  
 INPLACE (S & I) 1-2/c 14 (CABLE 62) - SALVAGE BACK TO HH 12 AND EXTEND TO NEW PUSH BUTTON STATION (FOR PB8-2)  
 INPLACE (REMOVE) 2-PEDESTRIAN INSTRUCTION "STICKER" SIGNS  
 F & I 1-APS PUSH BUTTON, SIGN (LT ARROW), AND APS MAST ARM POLE ADAPTOR AT 270 DEG (PB6-1)  
 PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTONS USED TO BE (AT 180/270 DEG)

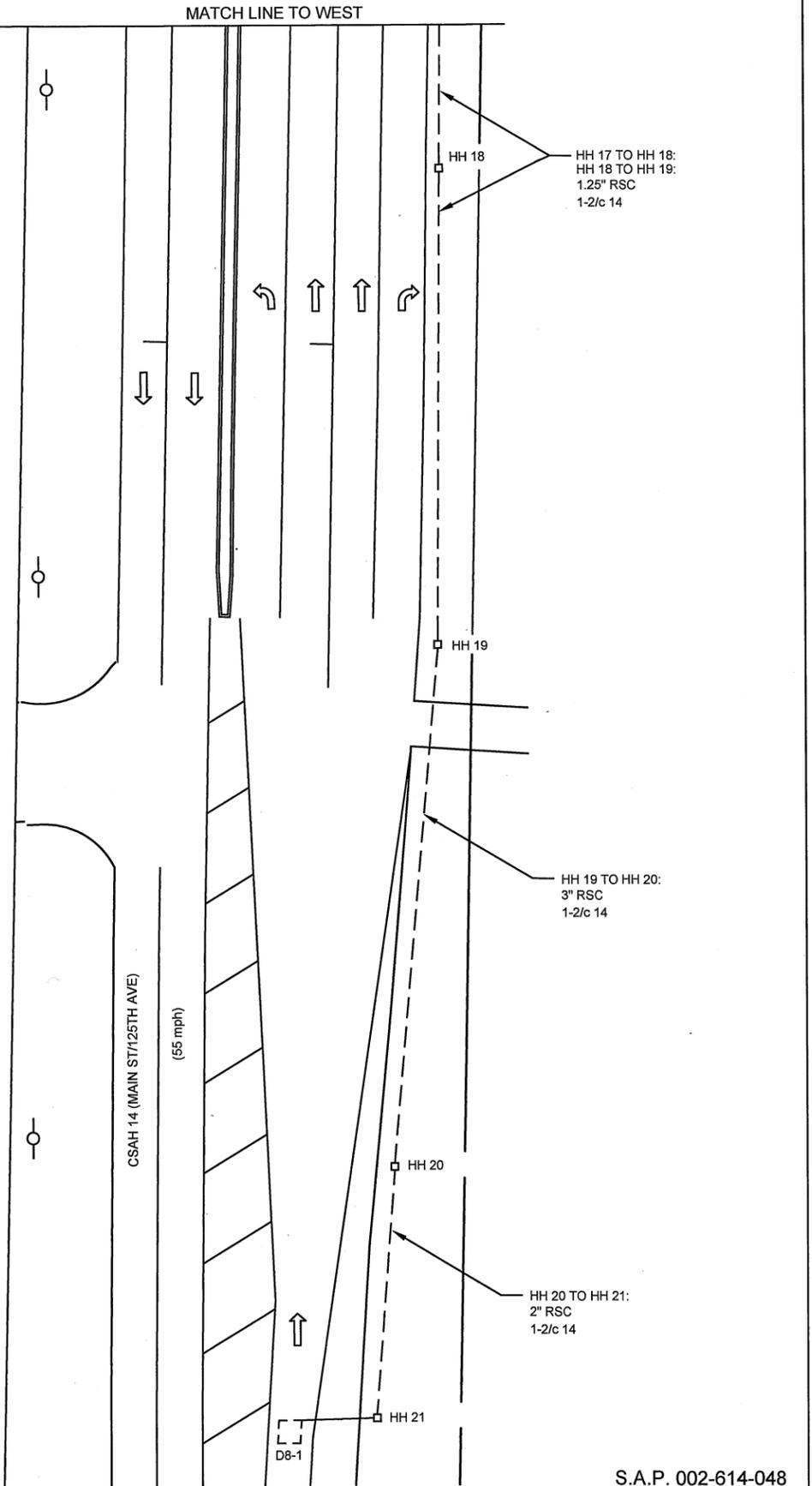
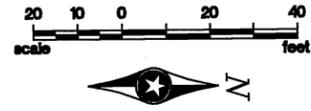
④ INPLACE (MAINTAIN INPLACE) PA85 POLE FOUNDATION  
 TYPE PA85-A-10  
 1-ONE WAY SIGNAL-OVERHEAD AT 0'  
 1-ONE WAY SIGNAL-POLE MOUNTED 270 DEG  
 R10-X12 SIGN-ADJACENT TO 5-2  
 EXTENDED INTO HH 13:  
 3" RSC  
 1-12/c 14  
 1-2/c 14  
 1-1/c 6 (GRD)

⑤ INPLACE (MAINTAIN INPLACE) PA100 POLE FOUNDATION  
 TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
 LUMINAIRE-COBRAHEAD LED  
 3-ONE WAY SIGNALS-OVERHEAD (0', 11, AND 23' FROM END OF MAST ARM)  
 2-WELDED MID MAST ARM MOUNTS (LOCATED AT 11' AND 23' FROM END OF MAST ARM)  
 OPEN MID-MOUNTS CAPPED AT 17', 29', AND 41' FROM END OF MAST ARM  
 2-TYPE 10B-POLE MOUNTED 90/180 DEG  
 2-R6-1 SIGN PANELS-POLE MOUNTED 0/180 DEG  
 TYPE D SIGN PANEL-OVERHEAD AT 45'  
 ONE WAY EVP DETECTOR AND LIGHT AT 6' (Ø2,5)  
 EXTENDED INTO HH 17:  
 3" RSC  
 3-12/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 (SALVAGE) 2-PEDESTRIAN PUSH BUTTONS - POLE MOUNTED 0/270 DEG  
 INPLACE (S & I) 1-2/c 14 (CABLE 44) - SALVAGE BACK TO HH 17 AND EXTEND TO NEW PUSH BUTTON STATION (FOR PB2-2)  
 INPLACE (REMOVE) 2-PEDESTRIAN INSTRUCTION "STICKER" SIGNS  
 F & I 1-APS PUSH BUTTON, SIGN (LT ARROW), AND APS MAST ARM POLE ADAPTOR AT 270 DEG (PB8-1)  
 PLUG HOLES ON MAST ARM POLE WHERE PUSH BUTTONS USED TO BE (AT 0/270 DEG)

FYA = FLASHING YELLOW ARROW

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



S.A.P. 002-614-048  
 S.A.P. 106-020-037

DRAWN BY: MRB	DESIGNER: MRB	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: February 7, 2022  
 Name: John M. Gray, P.E.  
 Lic. No. 22457



**ANOKA COUNTY, MINNESOTA**  
 CITY OF BLAINE

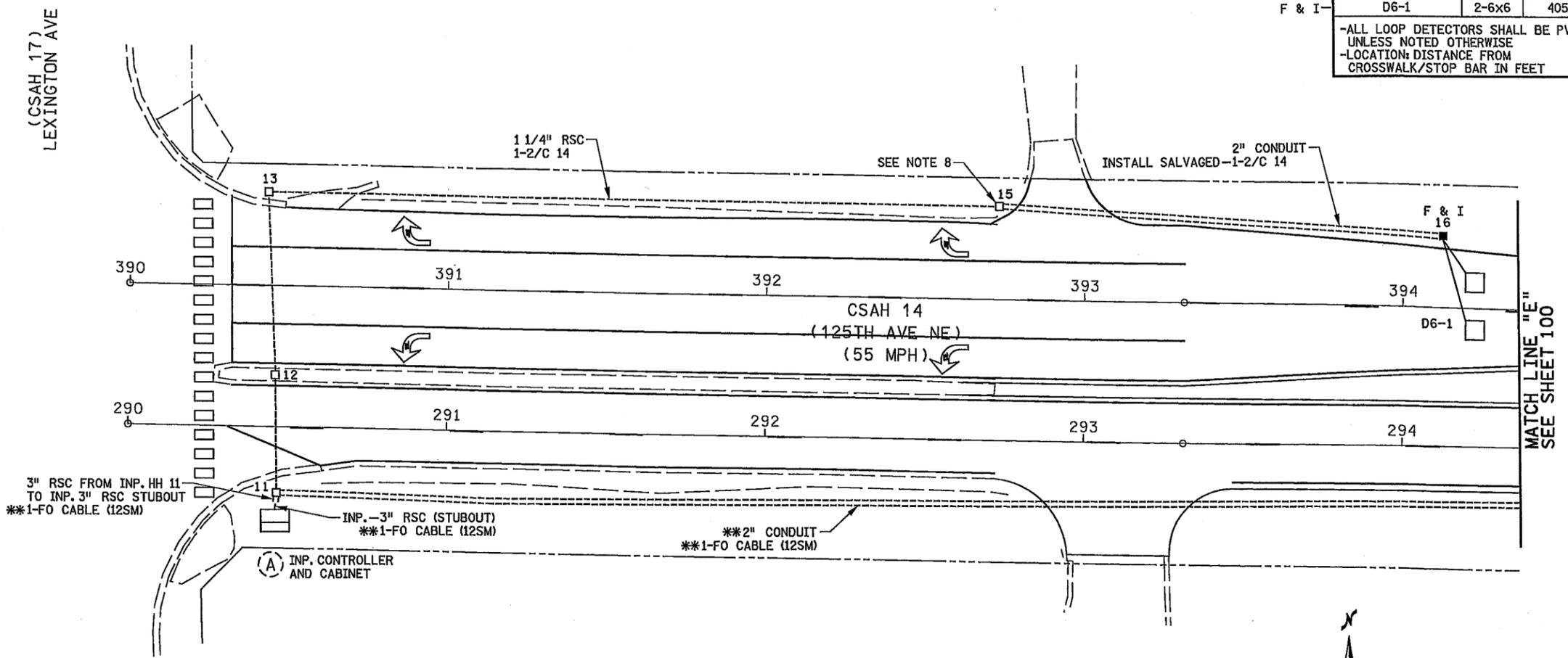
REVISE SIGNAL SYSTEM "C" / INTERCONNECT  
 MATCHLINE AND NOTES  
 CSAH14 (125TH AVENUE NE) AT  
 CSAH 17 (LEXINGTON AVE)

FILE NO. ANOKC157553	181
SIGNAL SHEET SGL29 OF SGL34	303

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D6-1	2-6x6	405

F & I -

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



- NOTES:
- ALL ITEMS SHOWN ARE INPLACE AND SHALL REMAIN INPLACE UNLESS NOTED OTHERWISE.
  - REFER TO "FOR INFORMATION ONLY" SHEETS FOR INPLACE SIGNAL COMPONENTS.
  - SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
  - ENSURE THE EXACT LOCATION OF THE HANDHOLE, CONDUIT AND LOOP DETECTORS ARE VERIFIED IN THE FIELD BY COUNTY OFFICE PERSONNEL.
  - THIS PLAN SPECIFIES CONDUIT SIZE, TYPE, AND GENERAL LOCATION. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
  - USE RSC FOR ALL NEW CONDUIT.
  - CONDUIT SIZES ARE NOMINAL DIAMETER.
  - INTERCEPT EXISTING HH 15 WITH NEW CONDUIT TO NEW HH 16. CONTRACTOR SHALL COIL AND PROTECT SALVAGED LOOP DETECTOR LEAD-IN CONDUCTOR IN EXISTING HH 15. CONTRACTOR SHALL INSTALL SALVAGED CONDUCTORS AS SHOWN AND MAKE ALL NECESSARY SPLICES TO NEW LOOP DETECTOR D6-1 TO MAKE THE REVISED SIGNAL SYSTEM OPERATIONAL TO THE SATISFACTION OF THE ENGINEER.
  - ITEMS DENOTED WITH AN \*\* ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL INTERCONNECTION PAY ITEM.

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NO	DATE	BY	CHKD	APPR	REVISION

I hereby certify that this plan, specification, or report 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.

Print Name: NATHAN A. POOLE

Date: 03/22/19 License # 56071

STATE PROJECT NO.  
002-614-045  
106-142-001

CITY OF BLAINE  
PROJECT NO.  
18-09

DRAWN BY  
M. BRESSLER

DESIGNED BY  
M. BRESSLER

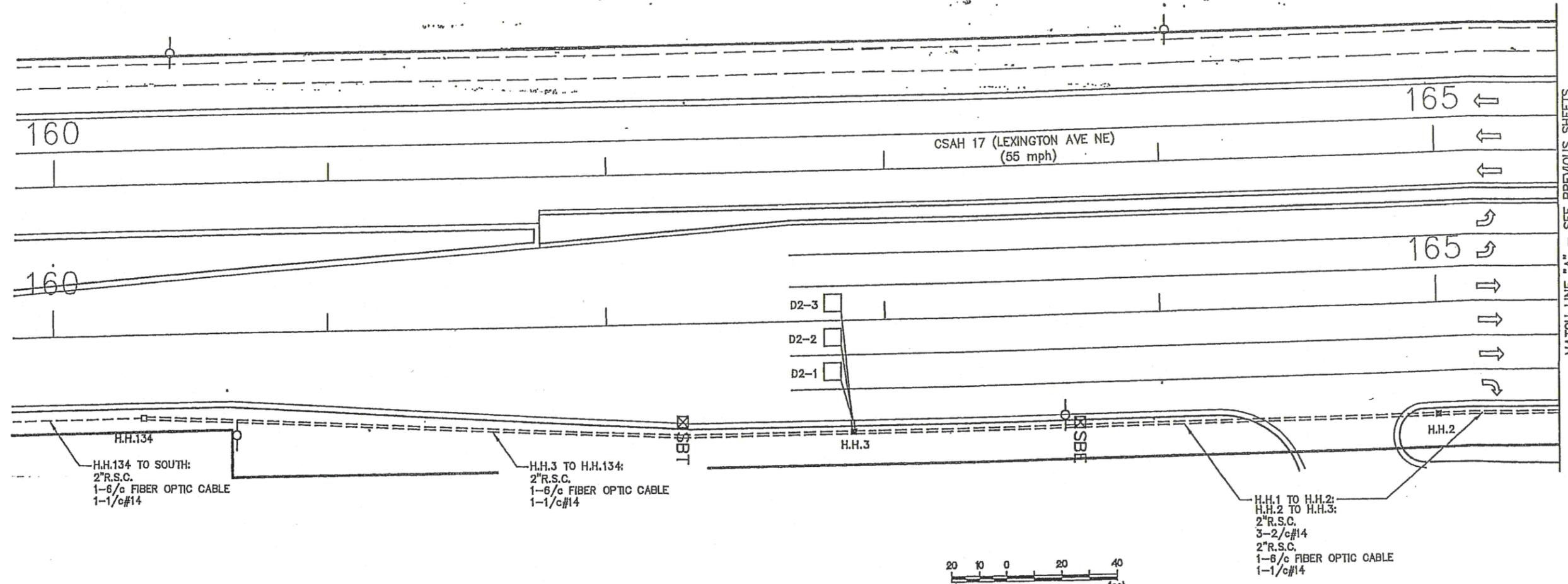
CHECKED BY  
N. POOLE

COMM. NO. 1811762

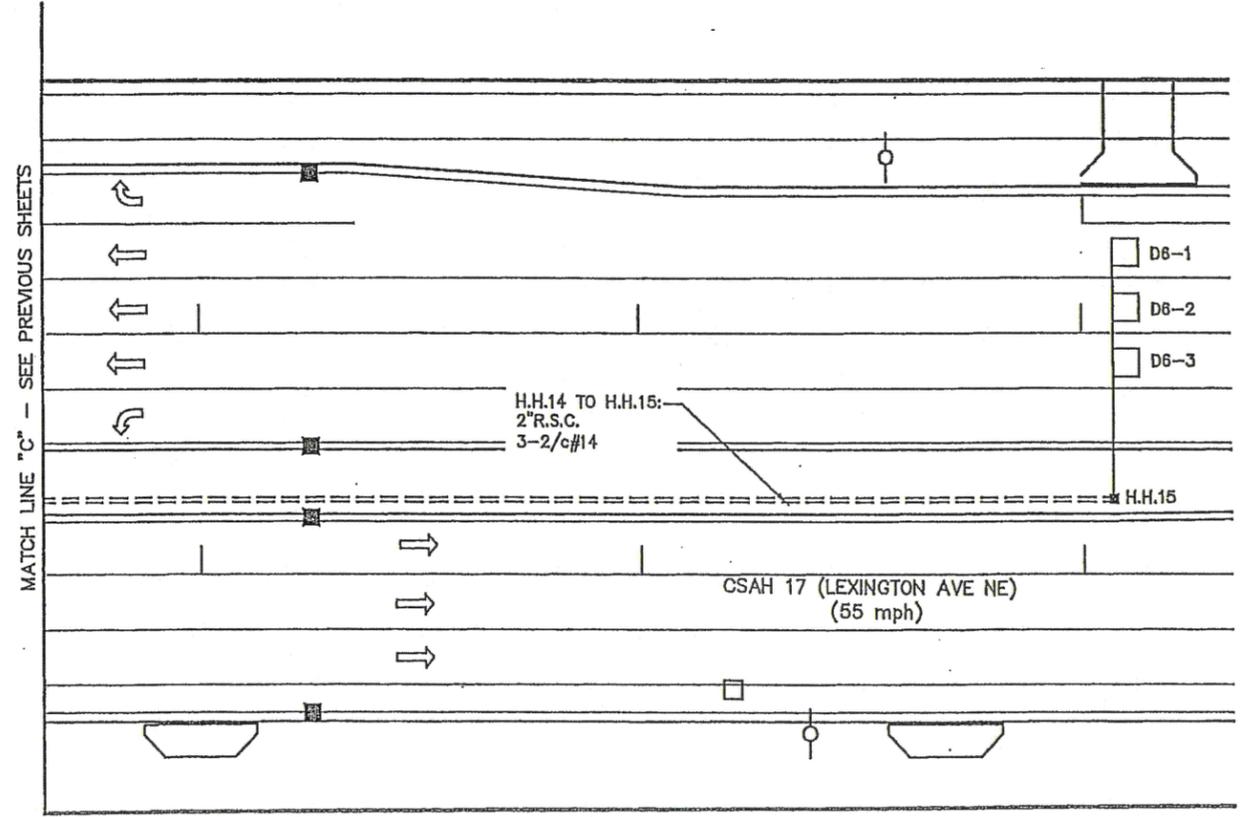


**ANOKA COUNTY**  
 TRAFFIC SIGNAL PLANS  
**CSAH 14 RECONSTRUCTION**  
 REVISED INTERSECTION/INTERCONNECT LAYOUT

SHEET  
 101  
 OF  
 106

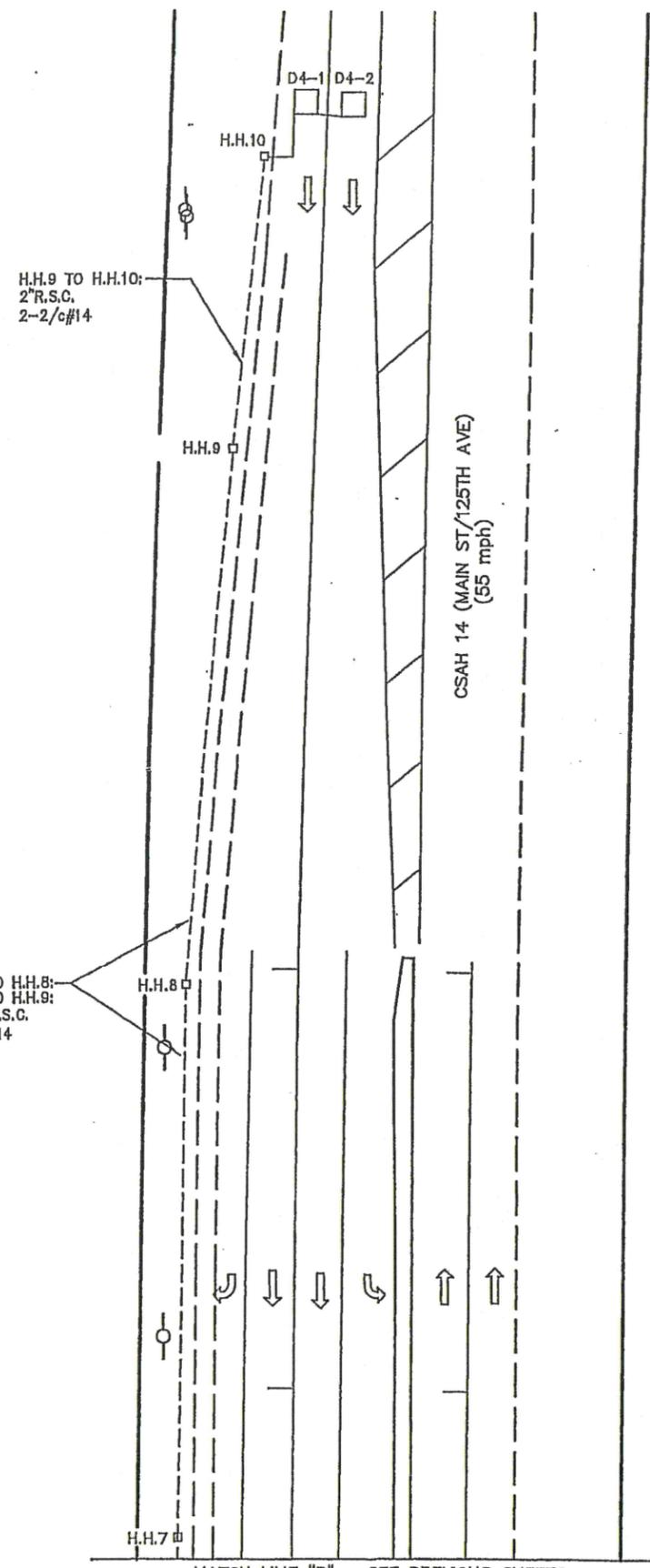
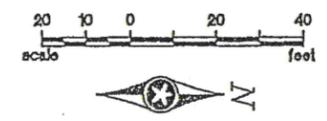


MATCH LINE "A" - SEE PREVIOUS SHEETS



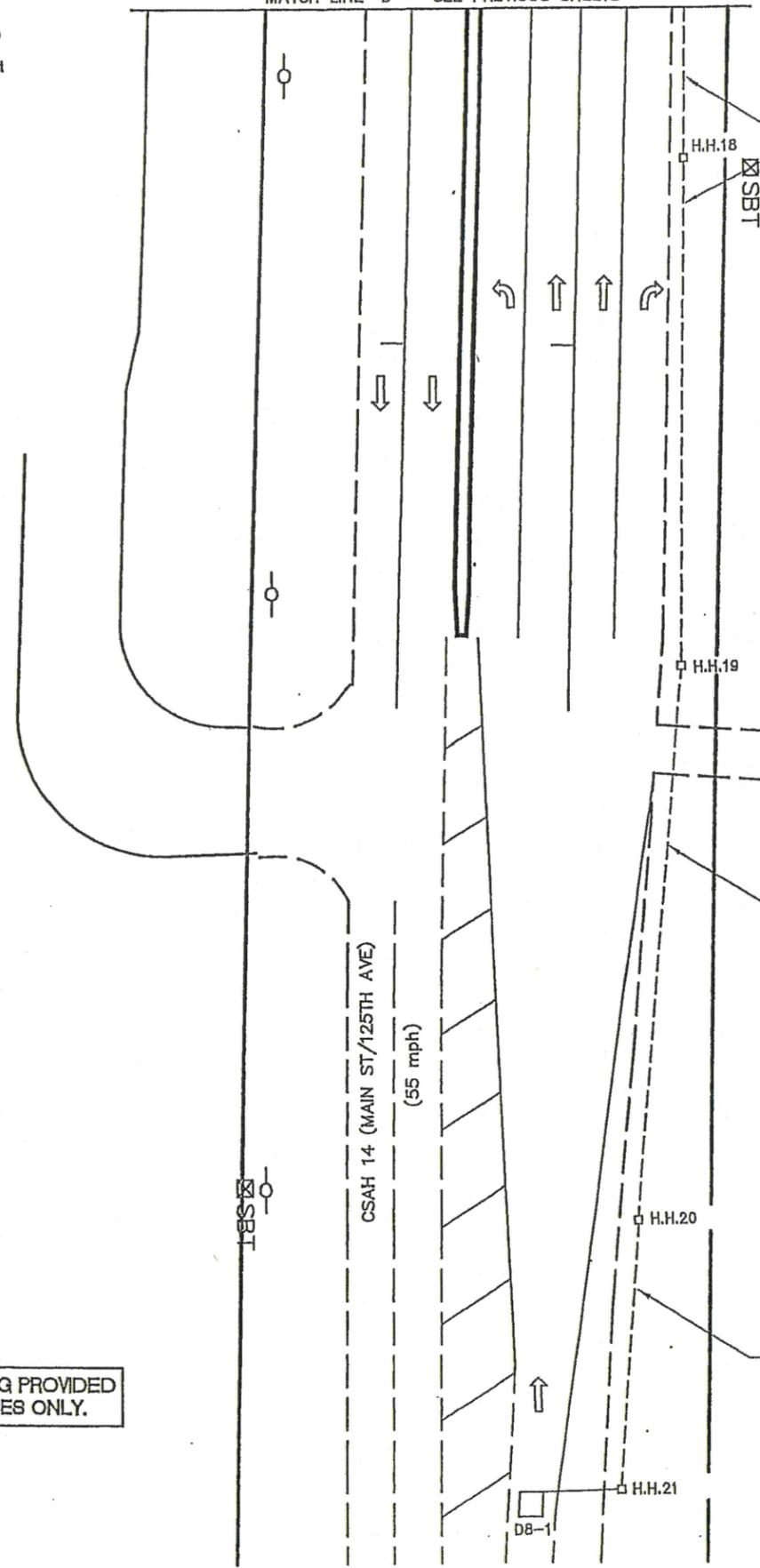
NOTE: THIS PLAN SHEET IS BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

MATCH LINE "D" - SEE PREVIOUS SHEETS

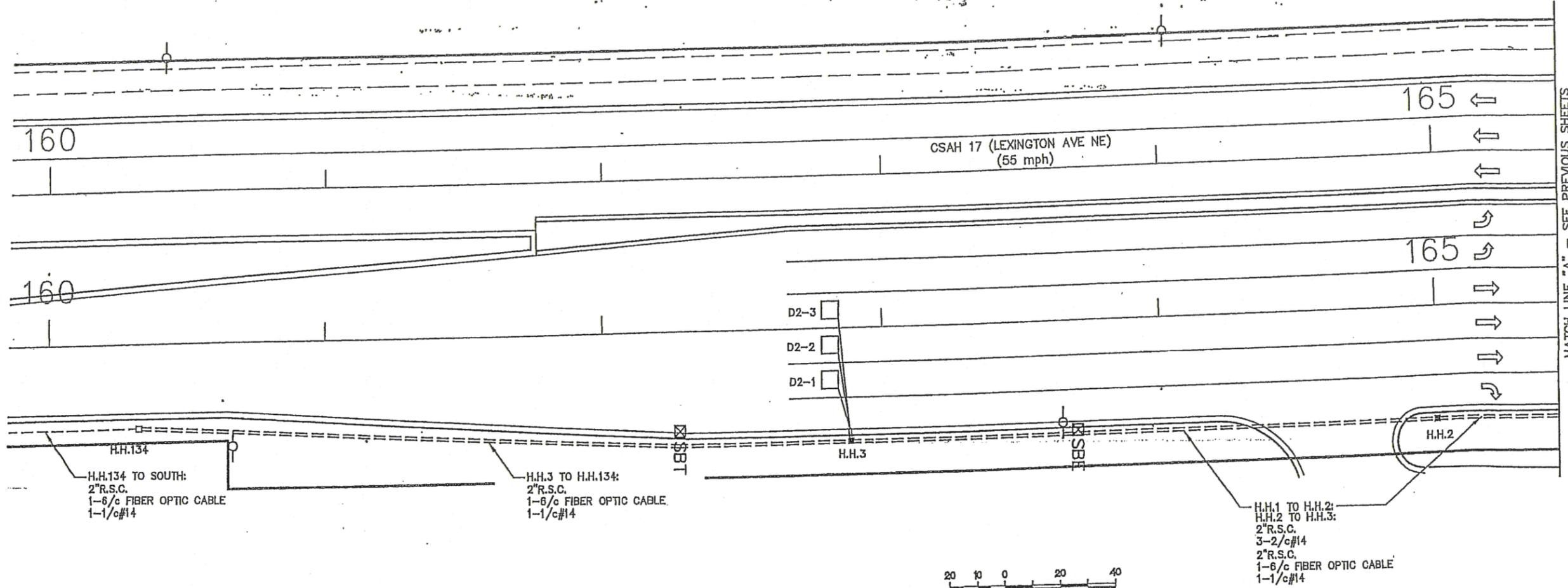


MATCH LINE "B" - SEE PREVIOUS SHEETS

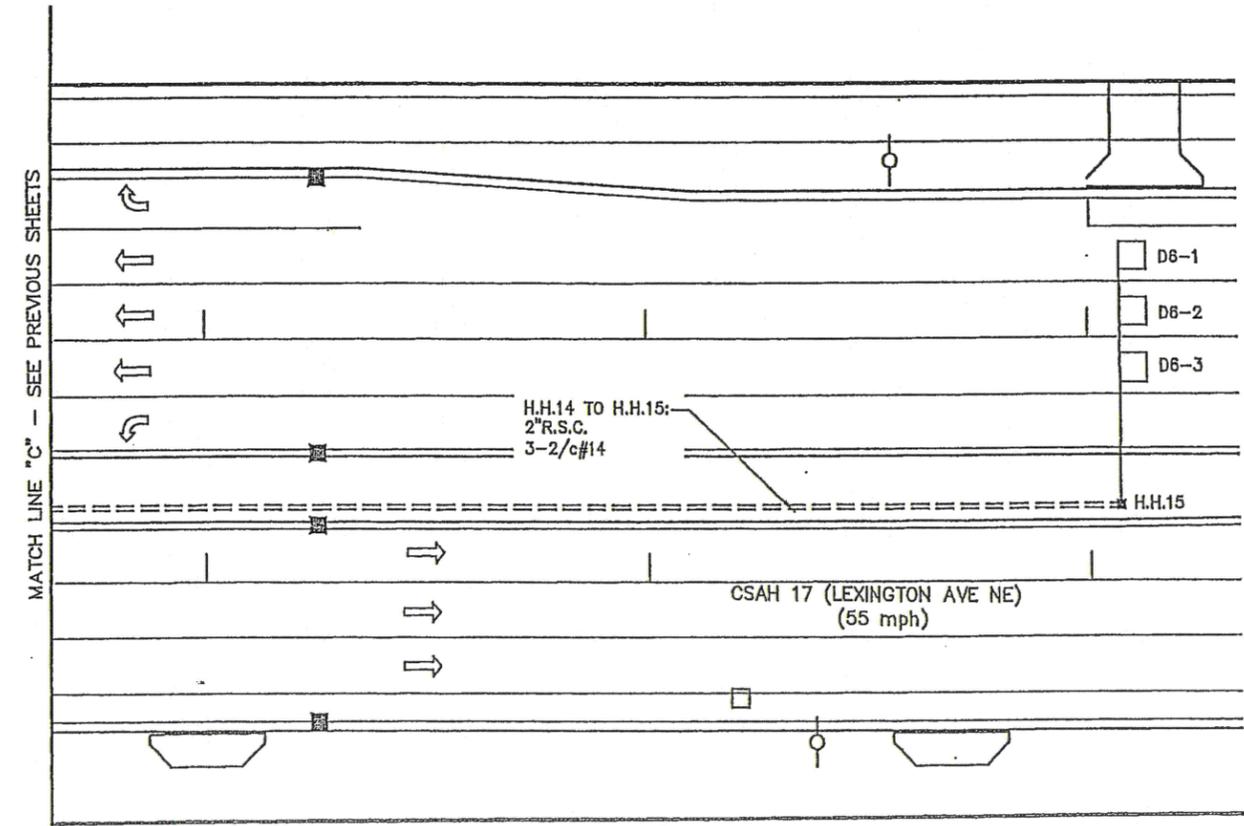
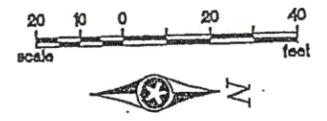
NOTE: THIS PLAN SHEET IS BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY.



COUNTY PROJ. 16-25-00



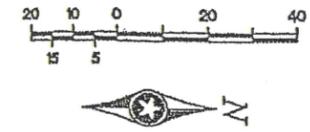
MATCH LINE "A" - SEE PREVIOUS SHEETS



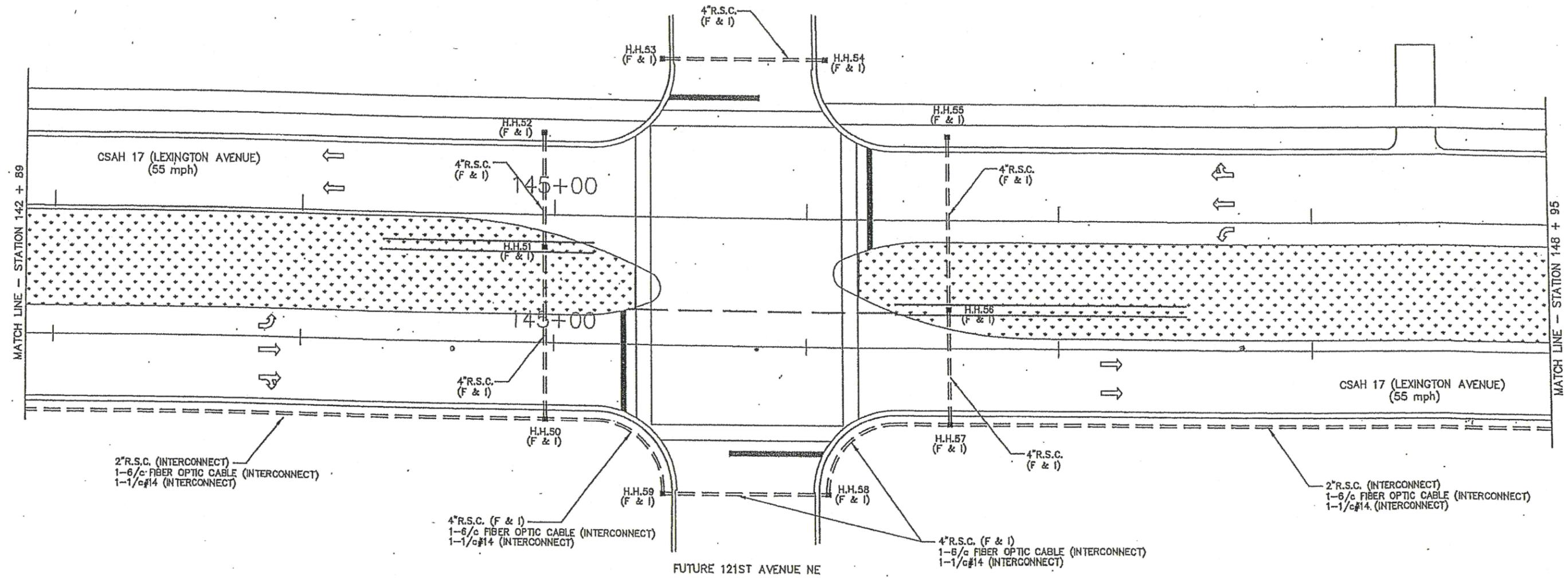
MATCH LINE "C" - SEE PREVIOUS SHEETS

NOTE: THIS PLAN SHEET IS BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY.





- NOTES:**
- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
  - 4) ALL ITEMS NOT DENOTED BY (INTERCONNECT), SUCH AS CONDUIT AND HANDHOLES FOR THE FUTURE TRAFFIC SIGNAL SYSTEM, SHALL BE MEASURED AND PAID FOR SEPARATELY (SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS) (ITEMS DENOTED BY F & I).
  - 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



W:\AE\ANOKA\030500\17BASE.DWG

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

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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, P.E.  
 Date: October 9, 2007

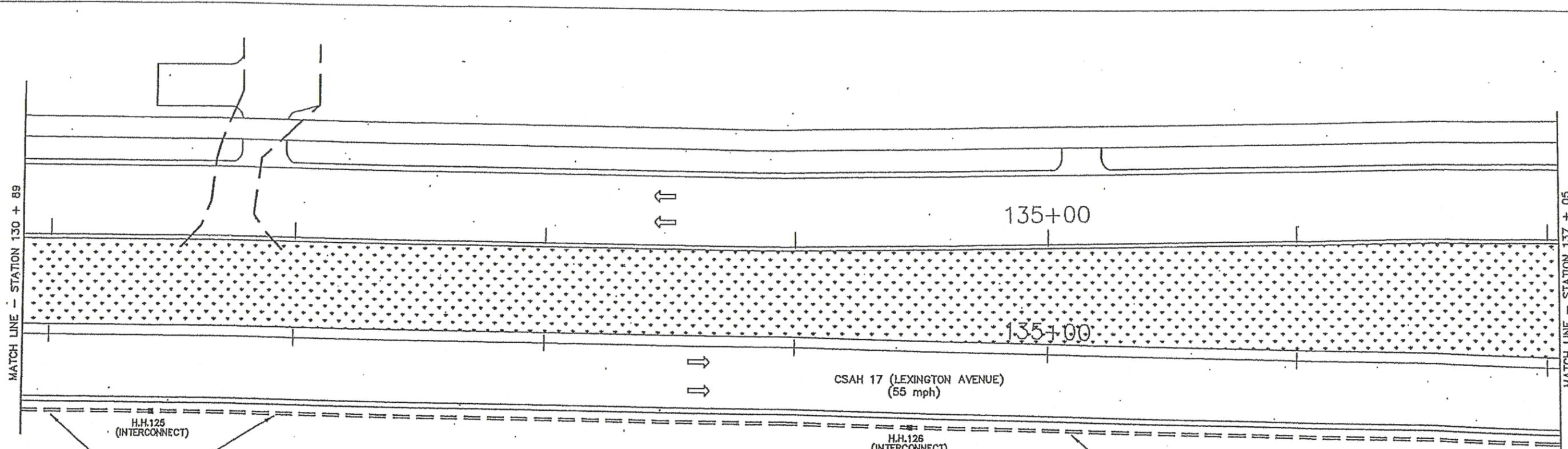


**ANOKA COUNTY, MINNESOTA**  
 CITY OF BLAINE

**INTERCONNECT/FUTURE SIGNAL SYSTEM INTERSECTION LAYOUT**  
 CSAH 17 (LEXINGTON AVENUE) AT FUTURE 121ST AVENUE NE

S.P. 02-617-13  
 S.P. 106-020-23

FILE NO.	AAANOKC0305.00
SIGNAL SHEET	141/226
18 OF 28	



MATCH LINE - STATION 130 + 89

MATCH LINE - STATION 137 + 05

CSAH 17 (LEXINGTON AVENUE)  
(55 mph)

H.H.125 (INTERCONNECT)

H.H.126 (INTERCONNECT)

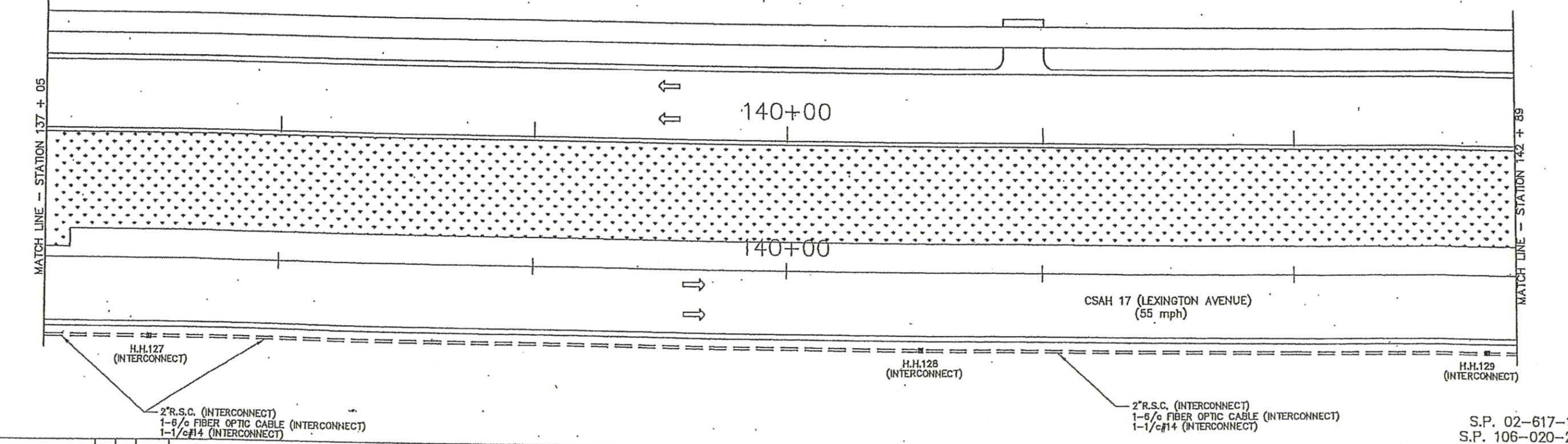
2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

20 10 0 20 40  
15 5



MATCH LINE - STATION 137 + 05

MATCH LINE - STATION 142 + 89

CSAH 17 (LEXINGTON AVENUE)  
(55 mph)

H.H.127 (INTERCONNECT)

H.H.128 (INTERCONNECT)

H.H.129 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

1/4" ANOKA COUNTY/TRAFFIC SIGNALS

DRAWN BY:	JMG
DESIGNER:	JMG
CHECKED BY:	JMG

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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*John M. G...*

**ESEH**  
PHONE (651) 490-2000

ANOKA COUNTY,  
MINNESOTA

TRAFFIC SIGNAL INTERCONNECT  
INTERSECTION LAYOUT

S.P. 02-617-13  
S.P. 106-020-23

FILE NO. AAANCK0305.00  
SIGNAL SHEET 140/26

MATCH LINE - STATION 118 + 55

MATCH LINE - STATION 124 + 75

MATCH LINE - STATION 124 + 75

MATCH LINE - STATION 130 + 89

120+00

120+00

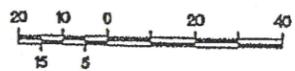
CSAH 17 (LEXINGTON AVENUE)  
(55 mph)

H.H.121  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

H.H.122  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)



NOTES:

- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

125+00

125+00

130+00

130+00

CSAH 17 (LEXINGTON AVENUE)  
(55 mph)

H.H.123  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

H.H.124  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

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

NO.	BY	DATE	REVISIONS

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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*John M. Gray*  
Home: John M. Gray, P.E.

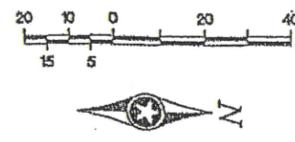


ANOKA COUNTY,  
MINNESOTA

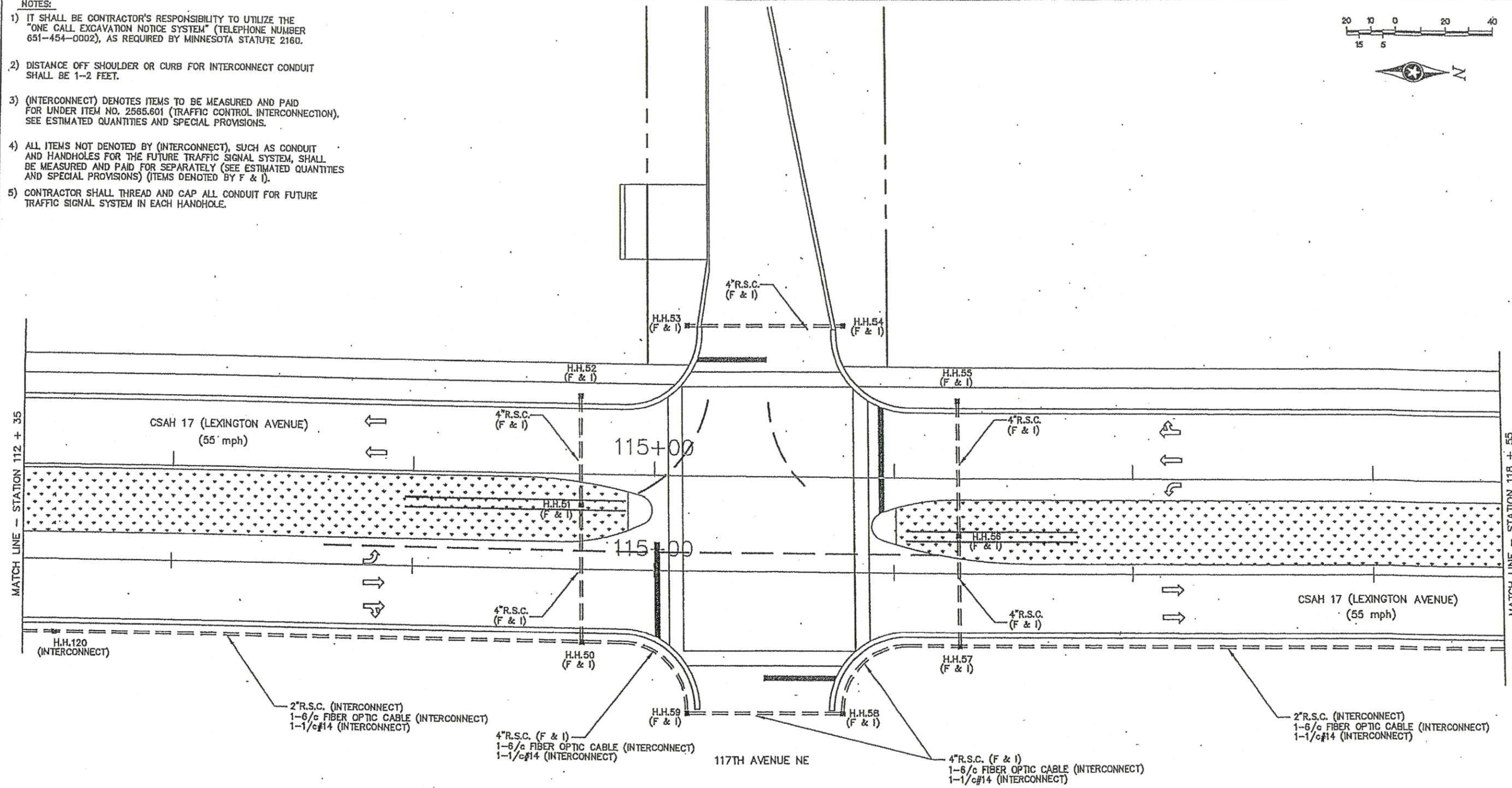
TRAFFIC SIGNAL INTERCONNECT  
INTERSECTION LAYOUT

S.P. 02-617-13  
S.P. 106-020-23

FILE NO.	139
AAANOKC0305.00	26
SIGNAL SHEET	



- NOTES:**
- 1) IT SHALL BE 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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  - 4) ALL ITEMS NOT DENOTED BY (INTERCONNECT), SUCH AS CONDUIT AND HANDHOLES FOR THE FUTURE TRAFFIC SIGNAL SYSTEM, SHALL BE MEASURED AND PAID FOR SEPARATELY (SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS) (ITEMS DENOTED BY F & I).
  - 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



W:\AE\ANOKA\030500\17BAS.DWG

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

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*John M. Gray*  
 Name: John M. Gray, P.E.  
 Date: October 9, 2003  
 No. 11-22457



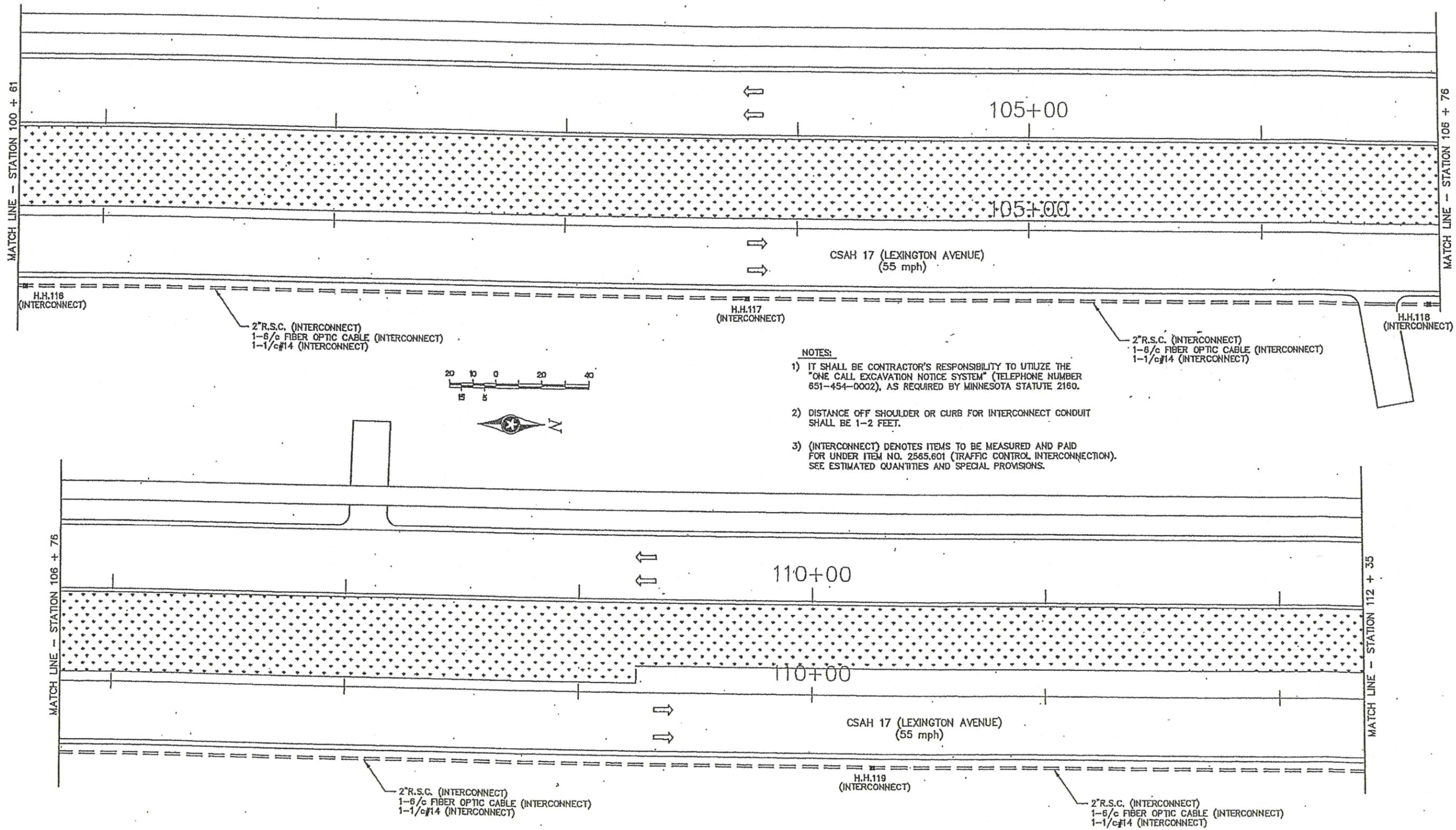
**ANOKA COUNTY, MINNESOTA**  
 CITY OF BLAINE

**INTERCONNECT/FUTURE SIGNAL SYSTEM INTERSECTION LAYOUT**  
 CSAH 17 (LEXINGTON AVENUE) AT 117TH AVENUE NORTHEAST

S.P. 02-617-13  
 S.P. 106-020-23

FILE NO.	AAHOK0305.00
SIGNAL SHEET	15 OF 28

138  
 226



H.H.117  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)



- NOTES:**
- 1) IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" (TELEPHONE NUMBER 851-454-0002), AS REQUIRED BY MINNESOTA STATUTE 2160.
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  - 3) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

H.H.119  
(INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

2"R.S.C. (INTERCONNECT)  
1-6/c FIBER OPTIC CABLE (INTERCONNECT)  
1-1/c#14 (INTERCONNECT)

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

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*[Signature]*  
Name: John M. Gray, P.E.  
October 9, 2007



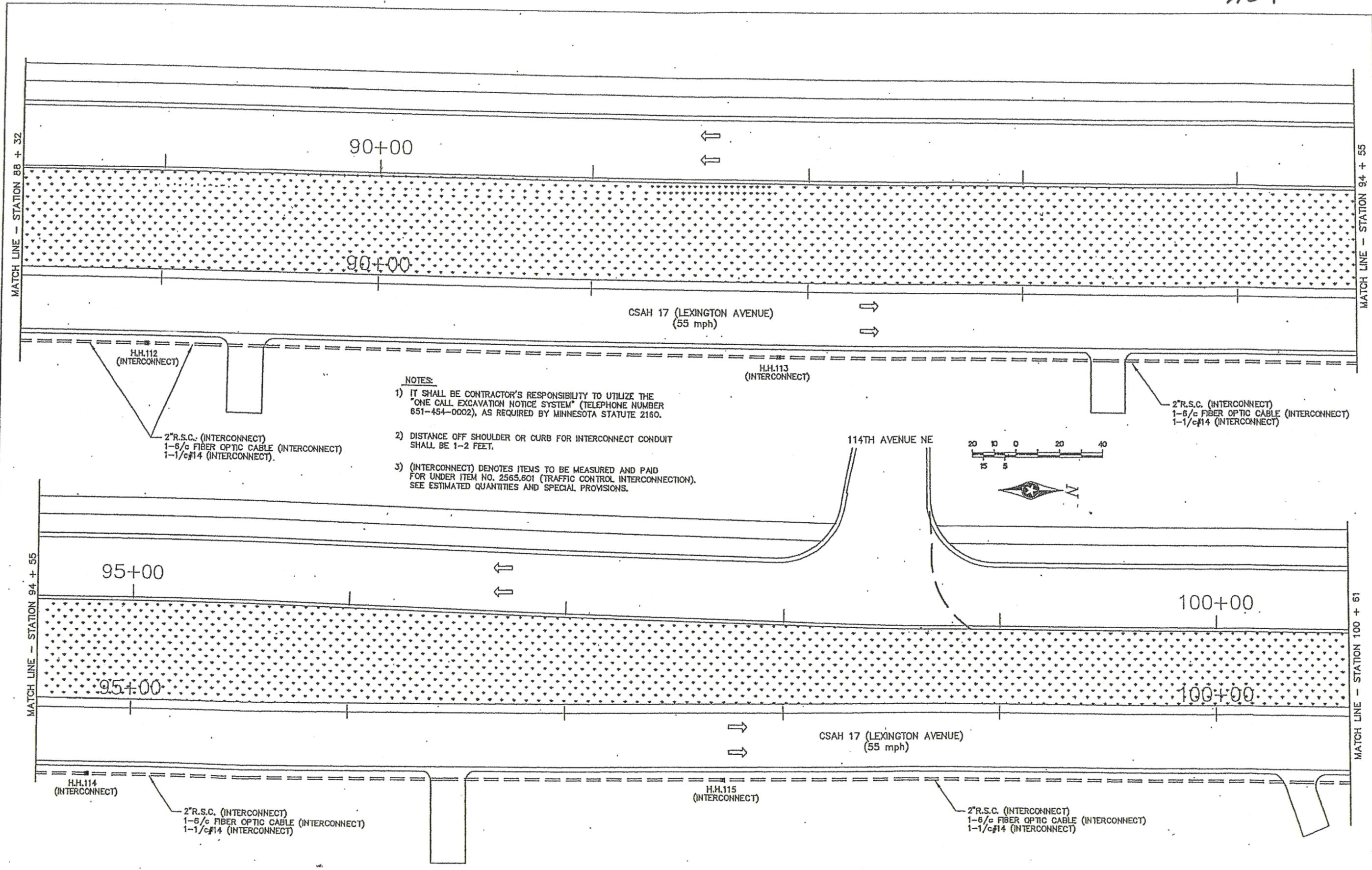
**ANOKA COUNTY, MINNESOTA**  
CITY OF PLANE

**TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT**

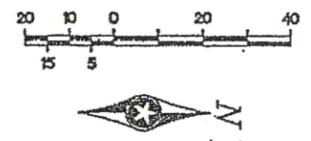
S.P. 02-617-13  
S.P. 106-020-23

FILE NO. AA#OKC0305.00  
SIGNAL SHEET 137/126

W:\AE\ANOKA\A30900\TRAFFSIG.DWG



- NOTES:**
- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



W:\AZ\ANOKA\030600\TRAFFIC.DWG  
 DRAWN BY: JMG  
 DESIGNER: JMG  
 CHECKED BY: JMG

NO.	BY	DATE	REVISIONS

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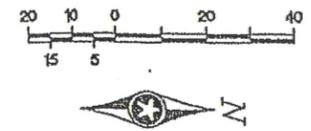
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 JMG Name: John M. Gray, P.E.



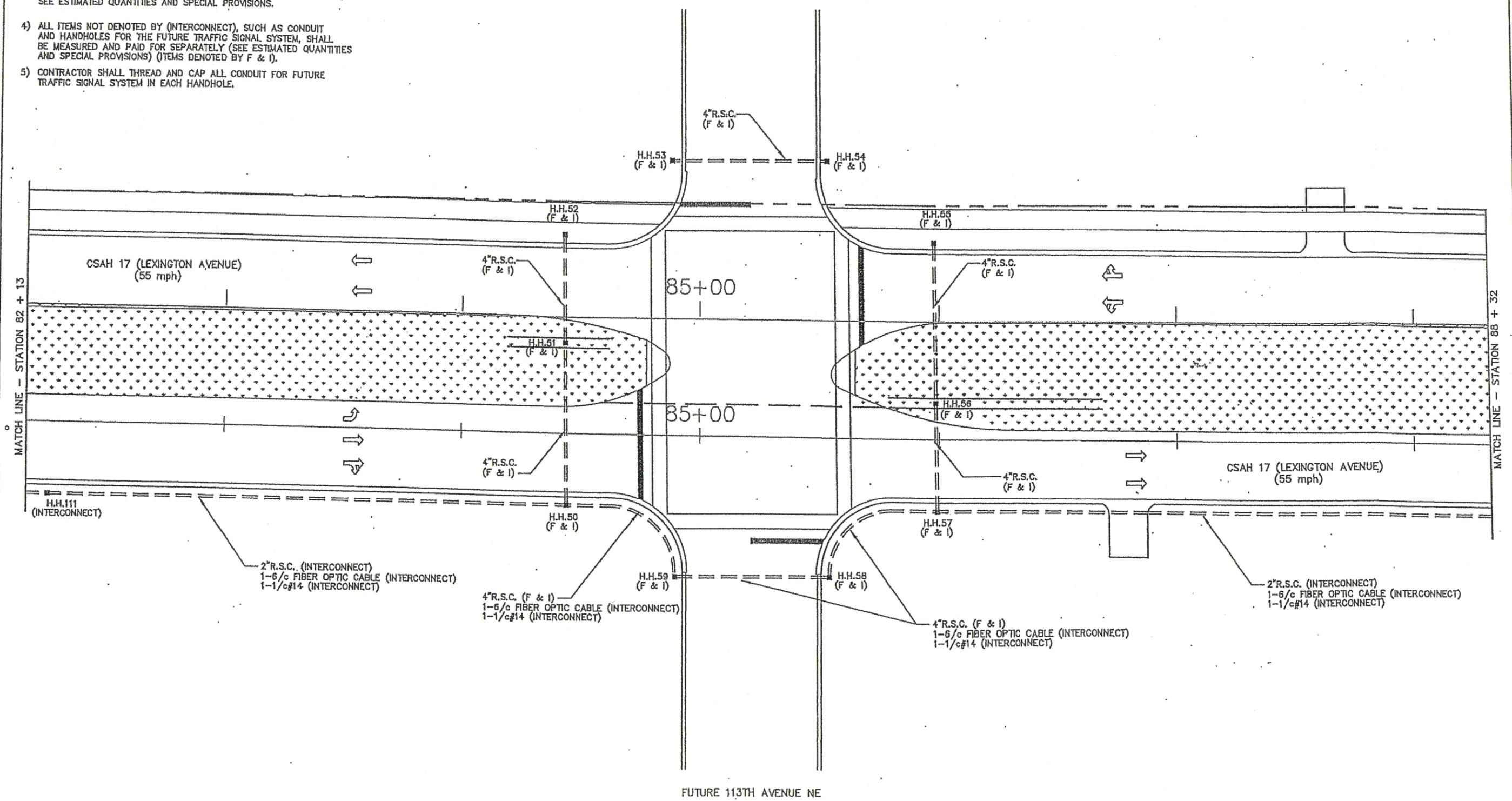
ANOKA COUNTY, MINNESOTA

TRAFFIC SIGNAL INTERCONNECT INTERSECTION LAYOUT

S.P. 02-617-13  
 S.P. 106-020-23  
 FILE NO. AANOKC0305.00  
 SIGNAL SHEET 136/26



- NOTES:**
- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
  - 4) ALL ITEMS NOT DENOTED BY (INTERCONNECT), SUCH AS CONDUIT AND HANDHOLES FOR THE FUTURE TRAFFIC SIGNAL SYSTEM, SHALL BE MEASURED AND PAID FOR SEPARATELY (SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS) (ITEMS DENOTED BY F & I).
  - 5) CONTRACTOR SHALL THREAD AND CAP ALL CONDUIT FOR FUTURE TRAFFIC SIGNAL SYSTEM IN EACH HANDHOLE.



P:\AE\ANOKA\2003000\77\PAISE.DWG

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

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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.

*[Signature]*  
 Name: John M. Gray, P.E.  
 No. 22457  
 Date: October 9, 2003



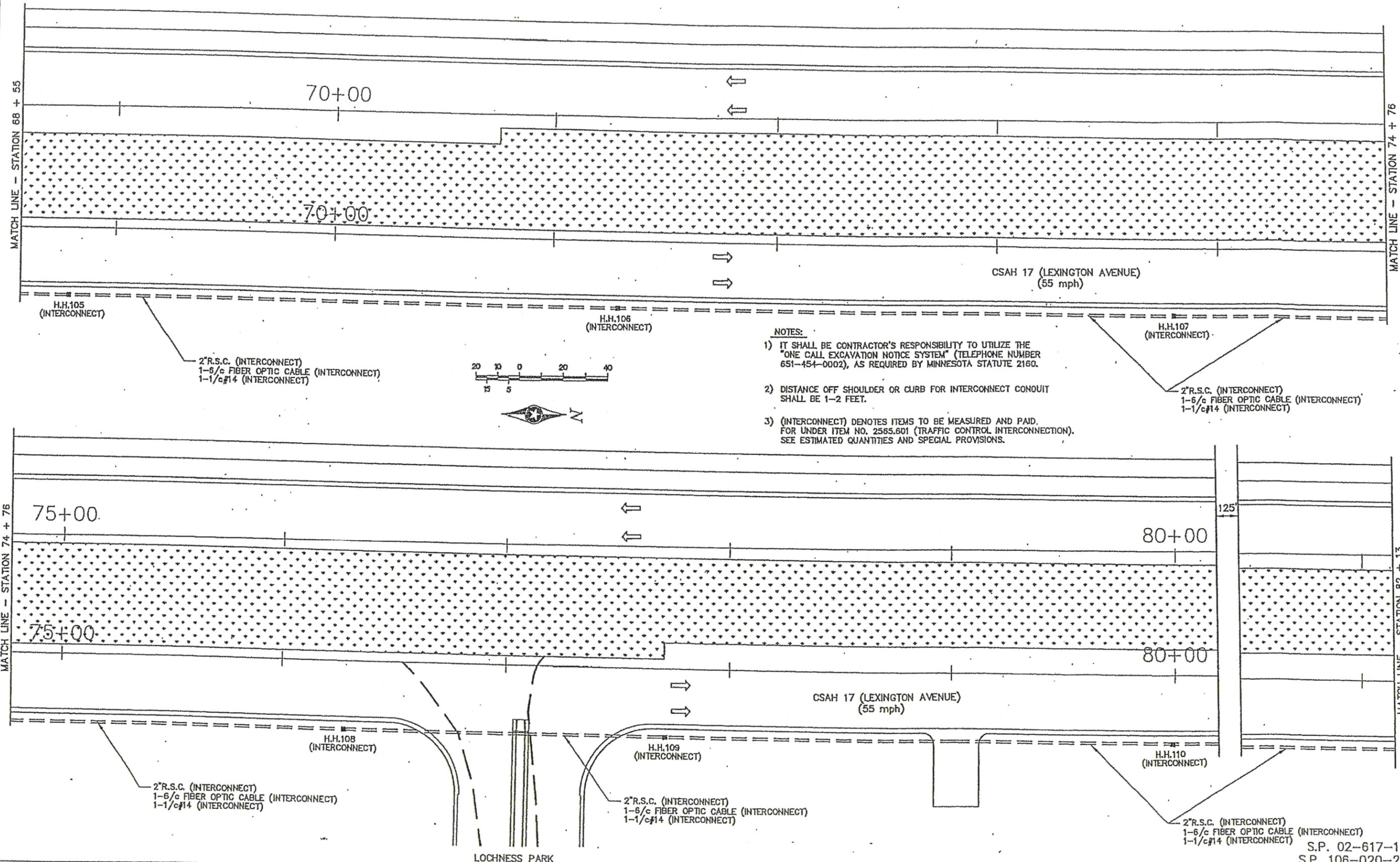
**ANOKA COUNTY, MINNESOTA**  
 CITY OF BLAINE

**INTERCONNECT/FUTURE SIGNAL SYSTEM**  
**INTERSECTION LAYOUT**  
 CSAH 17 (LEXINGTON AVENUE) AT  
 113TH AVENUE NORTHEAST

S.P. 02-617-13  
 S.P. 106-020-23

FILE NO. AANOKC0305.00  
 SIGNAL SHEET 12 OF 28

135  
 226



- NOTES:**
- 1) IT SHALL BE 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) (INTERCONNECT) DENOTES ITEMS TO BE MEASURED AND PAID, FOR UNDER ITEM NO. 2565.601 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.

DRAWN BY: JMG  
 DESIGNER: JMG  
 CHECKED BY: JMG

NO.	BY	DATE	REVISION

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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. Grey*  
 Name: John M. Grey, P.E.



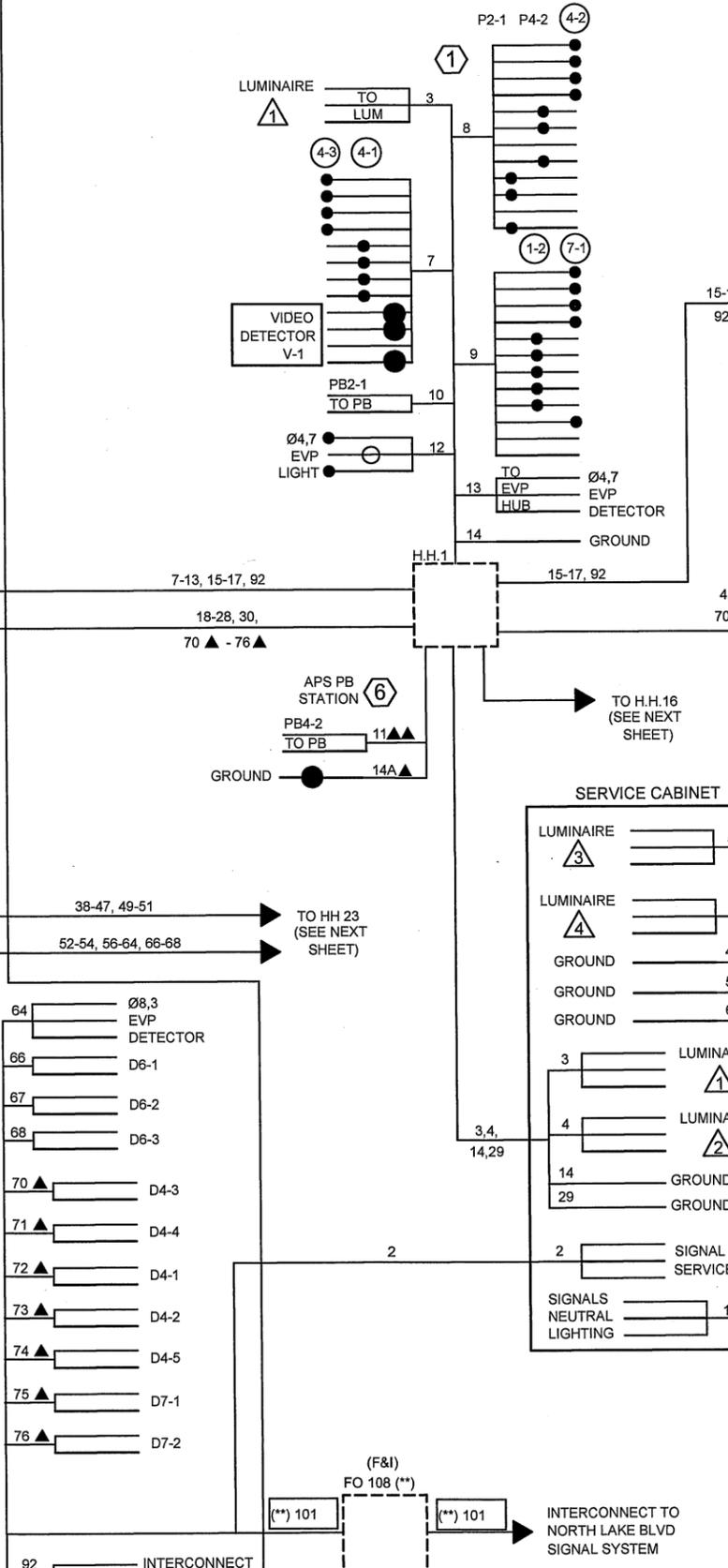
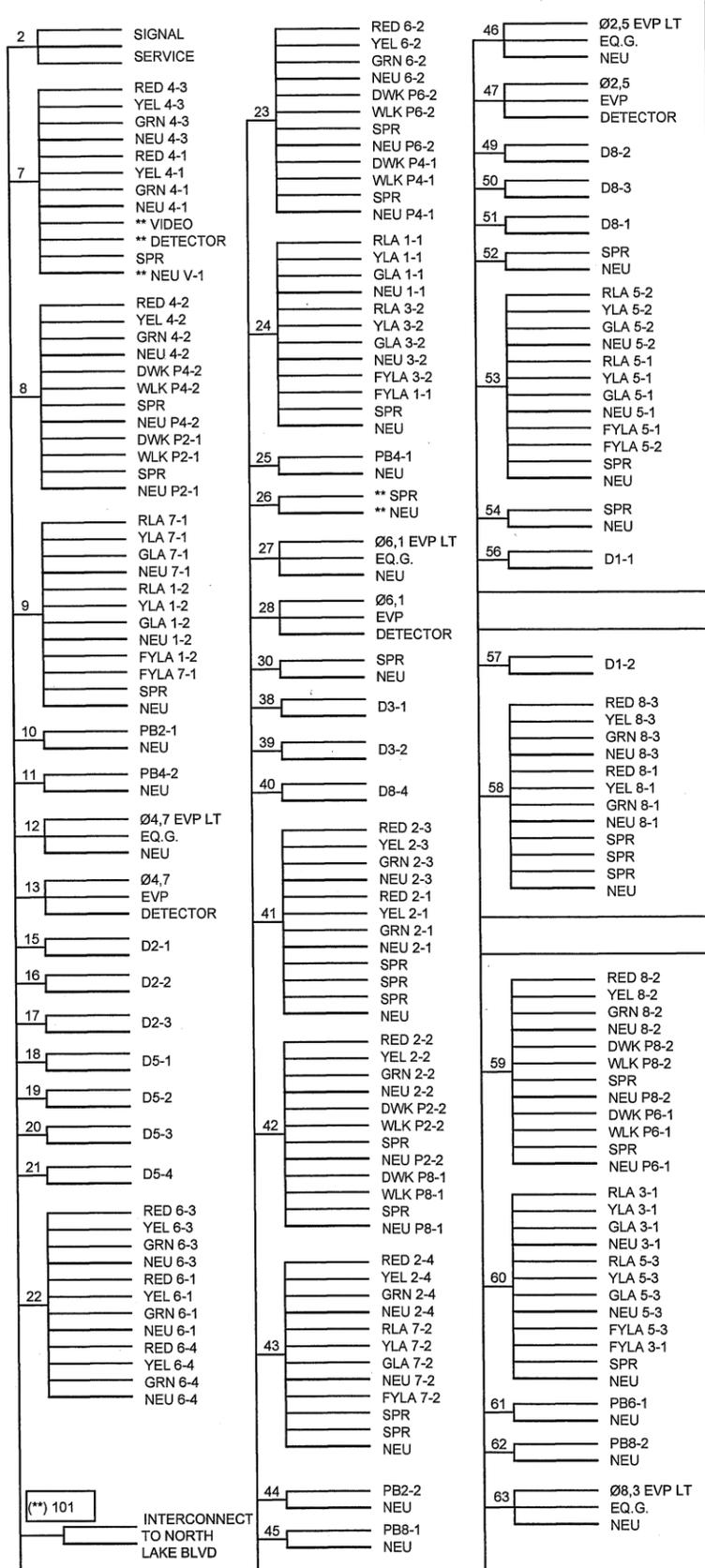
ANOKA COUNTY,  
 MINNESOTA

TRAFFIC SIGNAL INTERCONNECT  
 INTERSECTION LAYOUT

FILE NO. AANOKC0305.00  
 SIGNAL SHEET 134/26

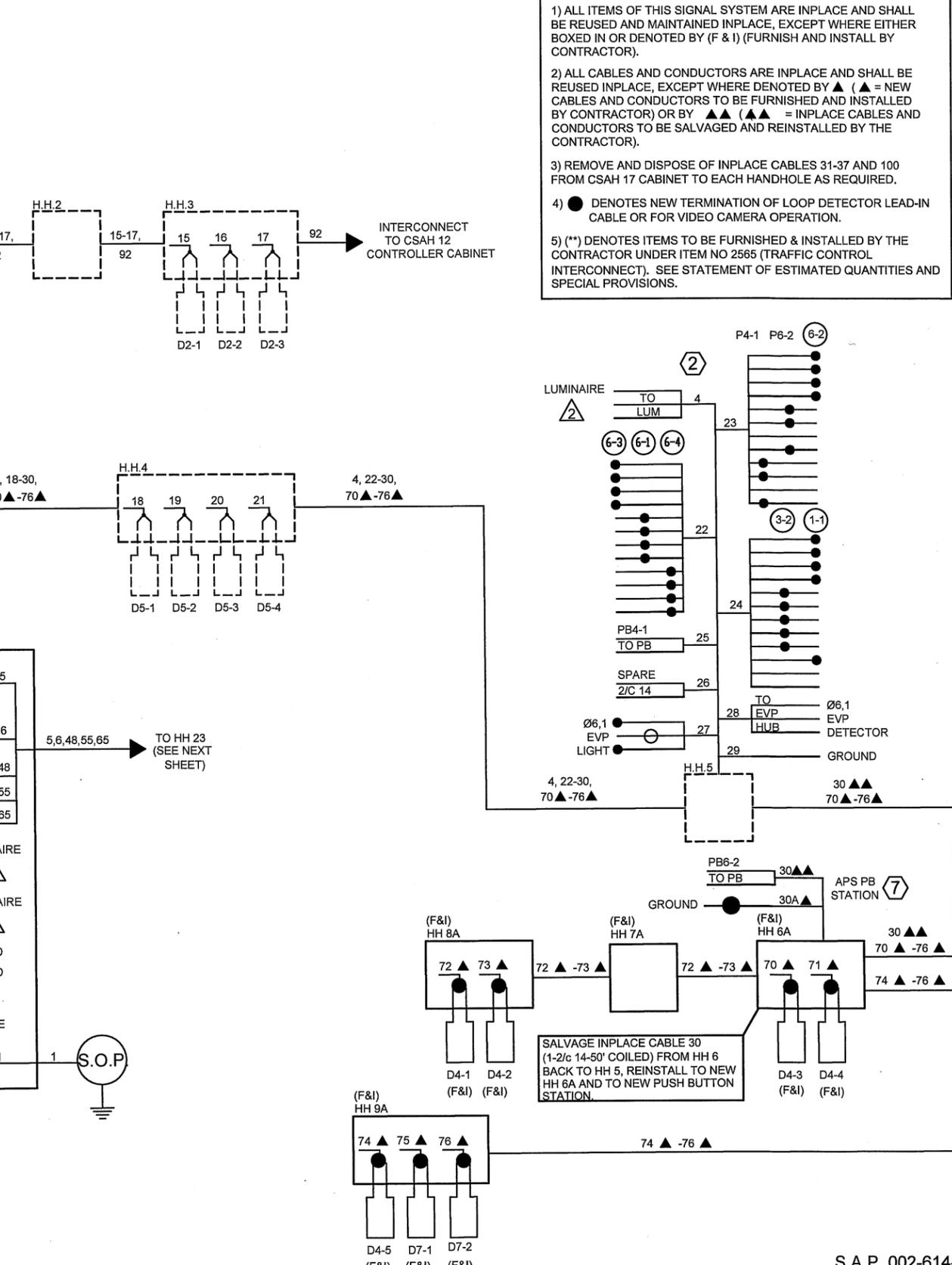
S.P. 02-617-13  
 S.P. 106-020-23

CONTROLLER AND CABINET



SYSTEM C/INTERCONNECT NOTES:

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE EITHER BOXED IN OR DENOTED BY (F & I) (FURNISH AND INSTALL BY CONTRACTOR).
- 2) ALL CABLES AND CONDUCTORS ARE INPLACE AND SHALL BE REUSED INPLACE, EXCEPT WHERE DENOTED BY ▲ (▲ = NEW CABLES AND CONDUCTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR) OR BY ▲▲ (▲▲ = INPLACE CABLES AND CONDUCTORS TO BE SALVAGED AND REINSTALLED BY THE CONTRACTOR).
- 3) REMOVE AND DISPOSE OF INPLACE CABLES 31-37 AND 100 FROM CSAH 17 CABINET TO EACH HANDHOLE AS REQUIRED.
- 4) ● DENOTES NEW TERMINATION OF LOOP DETECTOR LEAD-IN CABLE OR FOR VIDEO CAMERA OPERATION.
- 5) (\*\*) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY THE CONTRACTOR UNDER ITEM NO 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



DRAWN BY:	MRB
DESIGNER:	MRB
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, P.E.  
 Lic. No. 22457

Date: February 7, 2022

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

ANOKA COUNTY,  
 MINNESOTA  
 CITY OF BLAINE

REVISE SIGNAL SYSTEM "C" / INTERCONNECT  
 FIELD WIRING DIAGRAM  
 CSAH14 (125TH AVENUE NE) AT  
 CSAH 17 (LEXINGTON AVE)

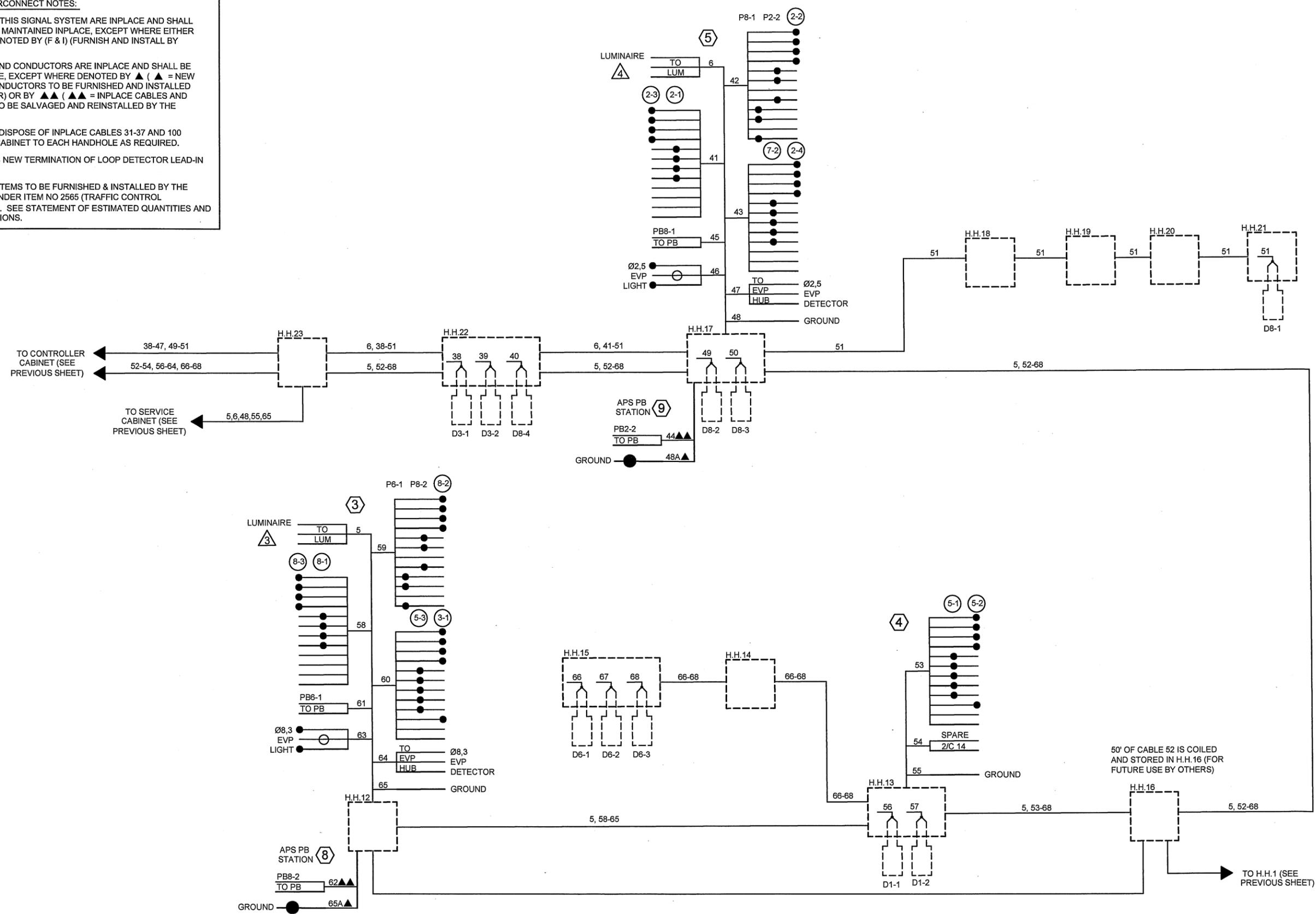
FILE NO.  
 ANOKC157553  
 SIGNAL SHEET  
 SGL30 OF SGL34

182  
 303

S.A.P. 002-614-048  
 S.A.P. 106-020-037

**SYSTEM C/INTERCONNECT NOTES:**

- 1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE EITHER BOXED IN OR DENOTED BY (F & I) (FURNISH AND INSTALL BY CONTRACTOR).
- 2) ALL CABLES AND CONDUCTORS ARE INPLACE AND SHALL BE REUSED INPLACE, EXCEPT WHERE DENOTED BY ▲ (▲ = NEW CABLES AND CONDUCTORS TO BE FURNISHED AND INSTALLED BY CONTRACTOR) OR BY ▲▲ (▲▲ = INPLACE CABLES AND CONDUCTORS TO BE SALVAGED AND REINSTALLED BY THE CONTRACTOR).
- 3) REMOVE AND DISPOSE OF INPLACE CABLES 31-37 AND 100 FROM CSAH 17 CABINET TO EACH HANDHOLE AS REQUIRED.
- 4) ● DENOTES NEW TERMINATION OF LOOP DETECTOR LEAD-IN CABLE.
- 5) (\*\*) DENOTES ITEMS TO BE FURNISHED & INSTALLED BY THE CONTRACTOR UNDER ITEM NO 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.



S.A.P. 002-614-048  
S.A.P. 106-020-037

DRAWN BY:	MRB			
DESIGNER:	MRB			
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, P.E.  
Lic. No. 22457  
Date: February 7, 2022

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

**ANOKA COUNTY,  
MINNESOTA  
CITY OF BLAINE**

REVISE SIGNAL SYSTEM "C" / INTERCONNECT  
FIELD WIRING DIAGRAM  
CSAH14 (125TH AVENUE NE) AT  
CSAH 17 (LEXINGTON AVE)

FILE NO. ANOKC157553	183
SIGNAL SHEET SGL31 OF SGL34	303