



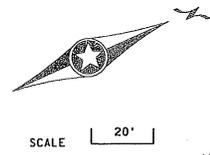
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SYSTEM "C"

- (A)** INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY)  
EQUIPMENT PAD FOUNDATION  
CONTROLLER CABINET TO SERVICE CABINET:  
METERED SIGNAL SERVICE  
2" R.S.C.  
3-1/2" c#6  
CONTROLLER CABINET TO H.H.1:  
4" R.S.C.  
3-12/c#12 (FOR FUTURE USE)  
1-3/c#12  
1-3/c#20  
6-2/c#14  
1-6/c FIBER-OPTIC CABLE (INTERCONNECT)
- CONTROLLER CABINET TO H.H.12:  
4" R.S.C.  
3-12/c#12  
2-3/c#12  
1-3/c#20  
6-2/c#14  
1-6/c FIBER-OPTIC CABLE (INTERCONNECT)

STUB OUT 2-3" R.S.C. FROM CONTROLLER CABINET TO SOUTH (THREAD AND CAP BOTH ENDS-FOR FUTURE USE)  
STUB OUT 1-1" N.M.C. FROM CONTROLLER CABINET (CAP BOTH ENDS FOR FUTURE PHONE LINE)



SEE SHEET SG16 FOR REMAINDER OF TRAFFIC SIGNAL SYSTEM PLANS AT CSAH 23 / APOLLO DRIVE

APOLLO DRIVE (30 mph)

MATCH LINE - STATION 45+80

CSAH 23 (LAKE DRIVE) (45 mph)

SYSTEM "C"

- (B)** SIGNAL SERVICE CABINET (ON THE SAME PAD AS CONTROLLER CABINET)  
EXTEND INTO H.H.1:  
2" R.S.C.  
UNMETERED STREET LIGHT SERVICE  
1-3/c#12 (LUM)  
EXTEND INTO H.H.12:  
2" R.S.C.  
UNMETERED STREET LIGHT SERVICE  
2-3/c#12 (LUM)

SYSTEM "D" NOTES:

- LOCATION OF LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 3/4" N.M.C. SEE SPECIAL PROVISIONS.
- (INTERCONNECT) DENOTES ITEMS TO BE MEASURED & PAID FOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECTION). SEE ESTIMATED QUANTITIES AND SPECIAL PROVISIONS.
- CONTRACTOR SHALL COORDINATE ALL SIGNAL INSTALLATION WORK WITH ROAD CONSTRUCTION WORK TO BE COMPLETED BY OTHERS AS PART OF THIS PROJECT.
- ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, EXCEPT WHERE BOXED IN AND OTHERWISE NOTED.
- F&I = ITEMS TO BE FURNISHED AND INSTALLED BY CONTRACTOR.  
S&I = ITEMS TO BE SALVAGED AND INSTALLED BY CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN HANDHOLE B INPLACE DURING ALL CONSTRUCTION (CUT DOWN HANDHOLE TO ROADWAY GRADE AND F & I HD COVER ON HANDHOLE WHEN MEDIAN IS REMOVED, THEN RAISE HANDHOLE TO FINISHED MEDIAN GRADE AFTER CONSTRUCTION IS COMPLETED) (INCIDENTAL TO REVISE SIGNAL SYSTEM "D" PAY ITEM).

F&I - 2" R.S.C. (INTERCONNECT)  
1-6/c FIBER-OPTIC CABLE (INTERCONNECT)

H.H.5 TO H.H.6B  
2" R.S.C.-F&I ("D")  
2-2/c#14-INPLACE (S&I) ("D")  
1-6/c FIBER-OPTIC CABLE (INTERCONNECT) (F&I)

H.H.21 TO H.H.22  
2" R.S.C.-INPLACE  
3-1/c#2-INPLACE

H.H.4 TO H.H.5  
4" R.S.C.-INPLACE  
2-12/c#12-INPLACE  
4-3/c#12-INPLACE  
1-3/c#20-INPLACE  
8-2/c#14-INPLACE  
1-3/c#12 (LUM)-INPLACE  
1-6/c FIBER-OPTIC CABLE (INTERCONNECT) (F&I)

**FINAL PLAN**  
CONFORMING TO  
CONST. RECORDS  
DATE JMG.07-07-10

SYSTEM "D"			
F&I NMC LOOP DETECTORS			
NUMBER	SIZE (FEET)	LOCATION	FUNCTION
D2-1	6x6	300'	1
D2-2	6x6	300'	1
D5-1	6x6	40'	1
D5-2	6x6	10'	1

NOTE: LOCATION = DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR.  
1) = CALL AND EXTEND

APOLLO DRIVE (30 mph)

144831 BX  
7/26/2010  
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DESIGN TEAM	1	JMG	7/24/06	REVISED TO COUNTY STDS	
DRAWN BY:	BDF	2	JMG	11/21/06	STATE COMMENTS
DESIGNER:	JMG	3	JMG	1/9/07	COUNTY COMMENTS
CHECKED BY:	JMG	NO.	BY	DATE	REVISIONS

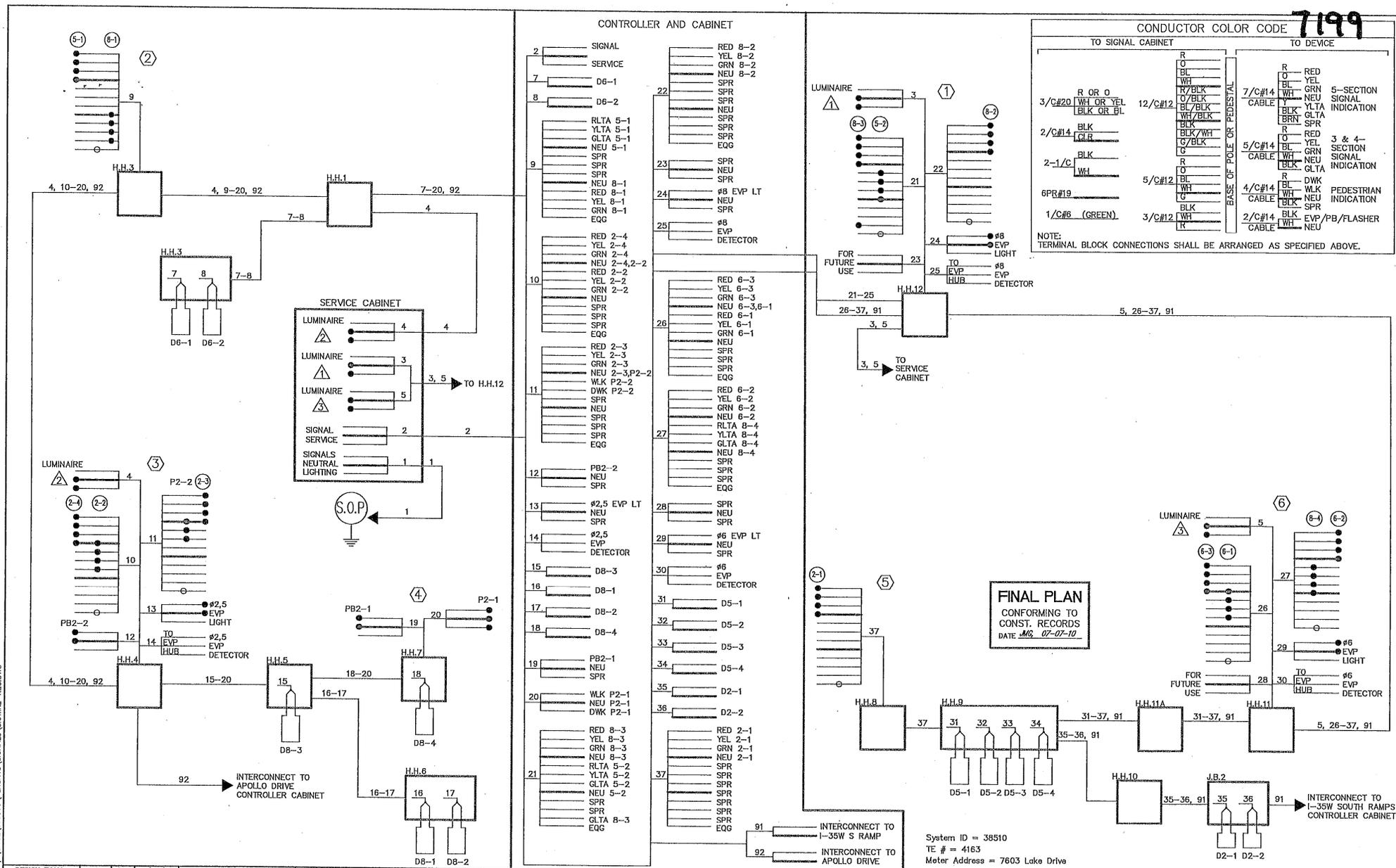
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Certified By: *[Signature]* License No. 22457  
Licensed Professional Engineer  
Printed Name: JOHN M. GRAY Date: 1/9/2007



MINNESOTA DEPARTMENT OF TRANSPORTATION  
STATE PROJ. NO. 0280-55 (TH 35W)  
STATE AID PROJ. NO. 02-623-13 & 210-020-04  
C.S.A.H. 23 (LAKE DRIVE)

TRAFFIC SIGNAL SYSTEMS "C-D" INTERSECTION LAYOUT  
CSAH 23 (LAKE DR.) - I-35W N RAMP TO APOLLO DR.  
FILE NO. ALN020505.00  
SG14  
OF 508  
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NO.	BY	DATE	REVISIONS
1	JMG	7/24/06	REVISED TO COUNTY STD.
2	JMG	11/21/06	STATE COMMENTS
3	JMG	1/09/07	COUNTY COMMENTS

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.

Certified By: John M. Gray Lic. No. 22457  
Printed Name: JOHN M. GRAY Date: STATE

**SEH**

PHONE: (612) 460-2000  
3935 VANDAN CENTER DR.  
ST. PAUL, MN 55110



MINNESOTA DEPARTMENT OF TRANSPORTATION  
STATE PROJ. NO. 0280-55  
STATE AID PROJ. NO. 02-623-13 & 210-020-04  
C.S.A.H. 23 (LAKE DRIVE)

TRAFFIC SIGNAL SYSTEM "C"  
FIELD WIRING DIAGRAM  
LAKE DRIVE (CSAH 23) AT I-35W NORTH RAMPS  
(NORTH JUNCTION WITH I-35W)

FILE NO.	138
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