

7196

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NOTES:

- 1) LOCATION OF POLES, LOOP DETECTORS, EQUIPMENT PAD AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY Mn/DOT METRO TRAFFIC OFFICE PERSONNEL.
- 2) EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
- 3) EACH PEDESTRIAN INDICATION SHALL BE A ONE SECTION HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
- 4) ALL HANDHOLES SHALL BE PVC HANDHOLES WITH METAL FRAMES AND COVERS, AND SHALL CONTAIN A DEPARTMENT FURNISHED "BALL LOCATOR". SEE SPECIAL PROVISIONS.
- 5) A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE AND CONDUIT OUTLET BODY SHALL BE FURNISHED AND INSTALLED FOR EVP APPROXIMATELY 6' FROM THE END OF EACH MAST ARM.
- 6) SEE SPECIAL PROVISIONS FOR DEPARTMENT FURNISHED MATERIALS.
- 7) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGN PANELS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR (INCIDENTAL TO ITEM NO. 2565.511).
- 8) CONTRACTOR SHALL COORDINATE ALL TRAFFIC SIGNAL CONSTRUCTION WITH ROAD CONSTRUCTION TO BE DONE AS PART OF THIS PROJECT.
- 9) SEE SPECIAL PROVISIONS AND DETAILS REGARDING INSTALLATION OF CROSSWALKS (INCIDENTAL TO ITEM NO. 2565.511).
.S.
- 10) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATION LENSES SHALL BE GLASS LENSES.

① PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350')
 LUMINAIRE-200 WATT H.P.S. WITH PEC AND CHECK SWITCH
 2-ONE WAY SIGNALS-OVERHEAD
 MID MAST ARM MOUNT AT 11'
 2-TYPE 108"-POLE MOUNTED 90° AND 180°
 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4b)
 TYPE "D" SIGN PANEL (108"x36")-OVERHEAD (D-1)
 ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (Ø6 & Ø1)
 EXTEND INTO H.H.1:
 3"R.S.C.
 2-12/c#12
 3-3/c#12
 1-3/c#12 (LUM.)
 1-3/c#20

② PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350')
 LUMINAIRE-200 WATT H.P.S. WITH PEC AND CHECK SWITCH
 2-ONE WAY SIGNALS-OVERHEAD
 MID MAST ARM MOUNT AT 11'
 2-TYPE 108"-POLE MOUNTED 90° AND 180°
 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4b)
 TYPE "D" SIGN PANEL (66"x18")-OVERHEAD (D-2)
 ONE WAY EVP LIGHT -OVERHEAD (Ø6 & Ø3)
 ONE WAY EVP DETECTOR - POLE MOUNTED 180° (Ø6 & Ø3)
 EXTEND INTO H.H.4:
 3"R.S.C.
 2-12/c#12
 3-3/c#12
 1-3/c#12 (LUM.)
 1-3/c#20

③ EQUIPMENT PAD - SEE DETAILS
 INSTALL CONTROLLER AND CABINET
 (FURNISHED BY DEPARTMENT)
 SERVICE EQUIPMENT (PAD MOUNTED)

CABINET TO H.H.1:
 4"R.S.C.
 4-12/c#12
 6-3/c#12
 8-2/c#14
 2-3/c#20

METER TO H.H.18:
 2"R.S.C.
 3-1/c#2

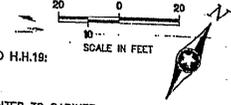
LOAD CENTER TO CABINET:
 1 1/4"R.S.C.
 2-1/4"Ø6
 1-1/4"Ø6 Br.Gr.

LOAD CENTER TO H.H.18:
 2"R.S.C.
 4-3/c#12 (LUM.)

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

④ GROUND MOUNTED TRANSFORMER (F & I)
 BY NSP
 EXTEND INTO H.H.19:
 2"R.S.C.
 3-1/c#2

SIGNAL FACE	ALL SIGNAL INDICATIONS SHALL BE 12"					
	R	Y	G	R	Y	G
1-1, 1-2, 5-1, 5-2	•	•	•	•	•	•
2-1, 2-2	•	•	•	•	•	•
3-1, 3-2, 7-1, 7-2	•	•	•	•	•	•
4-1, 4-2	•	•	•	•	•	•
6-1, 6-2	•	•	•	•	•	•
8-1, 8-2	•	•	•	•	•	•

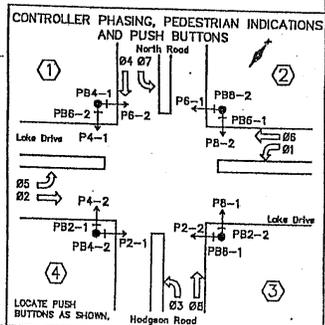


NUMBER	SIZE (FT.)	LOCATION	FUNCTION
D1-1	6x8	40'	1
D1-2	6x8	10'	1
D2-1	6x8	400'	1
D3-1	2-6x8	20' & 50'	1
D3-2	2-6x8	5' & 35'	1
D4-1	6x8	120'	1
D4-2	8x10x8x8	5' & 20'	7
D4-3	2-6x8	5' & 20'	1
D5-1	6x8	40'	1
D5-2	6x8	10'	1
D6-1	6x8	400'	1
D7-1	2-6x8	20' & 50'	1
D7-2	2-6x8	5' & 35'	1
D8-1	6x8	300'	1
D8-2	8x10x8x8	5' & 20'	7
D8-3	2-6x8	5' & 20'	1

FUNCTIONS:
 1) CALL AND EXTEND
 7) DELAYED CALL-IMMEDIATE
 EXTEND

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 MID MAST ARM MOUNT AT 11'
 2-TYPE 108"-POLE MOUNTED 90° AND 180°
 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4b)
 TYPE "D" SIGN PANEL (66"x18")-OVERHEAD (D-4)
 ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD (Ø4 & Ø7)
 EXTEND INTO H.H.14:
 3"R.S.C.
 2-12/c#12
 3-3/c#12
 1-3/c#12 (LUM.)
 1-3/c#20

⑤ PA100 POLE FOUNDATION
 TYPE PA100-A-50-D40-9 (DAVIT AT 350')
 LUMINAIRE-200 WATT H.P.S. WITH PEC AND
 CHECK SWITCH
 2-ONE WAY SIGNALS-OVERHEAD
 MID MAST ARM MOUNT AT 11'
 2-TYPE 108"-POLE MOUNTED 90° AND 180°
 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4b)
 TYPE "D" SIGN PANEL (108"x36")-OVERHEAD (D-3)
 ONE WAY EVP DETECTOR AND LIGHT-OVERHEAD
 (Ø2 & Ø5)
 EXTEND INTO H.H.6:
 3"R.S.C.
 2-12/c#12
 3-3/c#12
 1-3/c#12 (LUM.)
 1-3/c#20



T.E #811 ID# 22021

NORMAL OPERATION IS B PHASE WITH:
 - VEHICLE PHASES 2 AND 6 ON RECALL,
 - PROTECTED LEFT TURNS ON PHASES 1,3,5 ON 7,
 - SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.

S.P. 0204-12
 S.A.P. 02-623-07
 S.A.P. 02-610-09

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

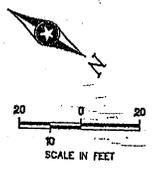
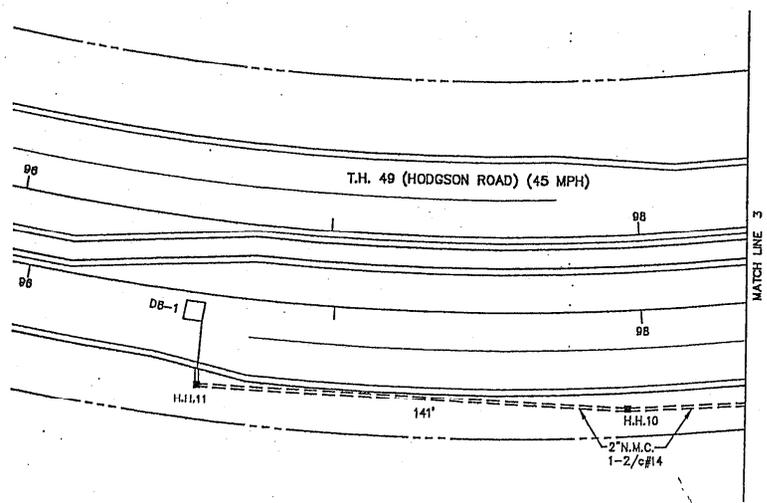
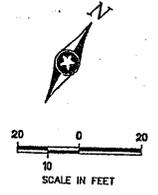
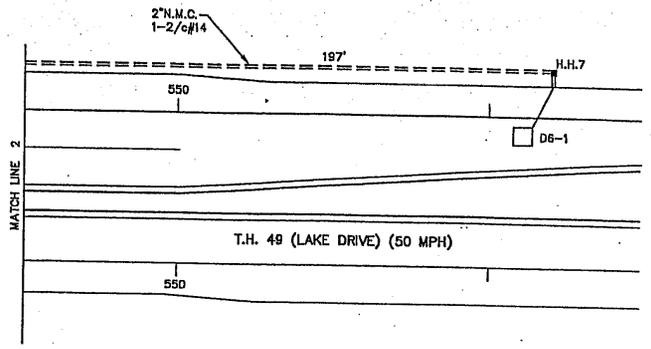
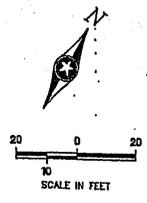
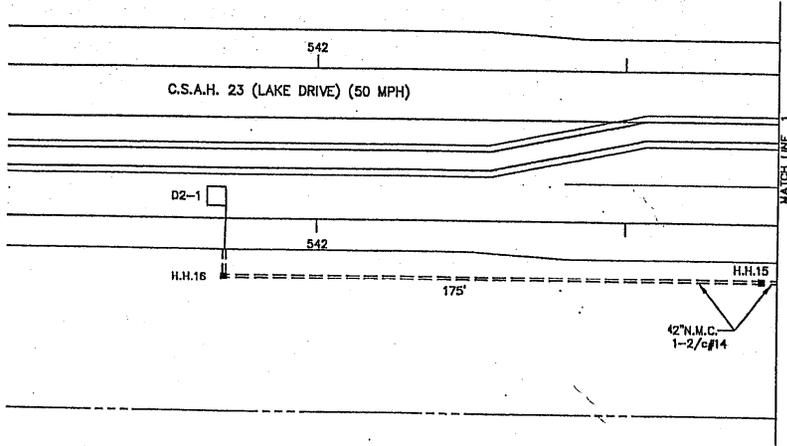


LINO LAKES, MINNESOTA

TRAFFIC SIGNAL SYSTEM

FILE NO.
 LINC.1310.04 3/9

7196



DATE PLOTTED: 05/25/96

1	JMG/S/24	Per Mn/DOT Comments
2	JMG/S/96	Record Drawing

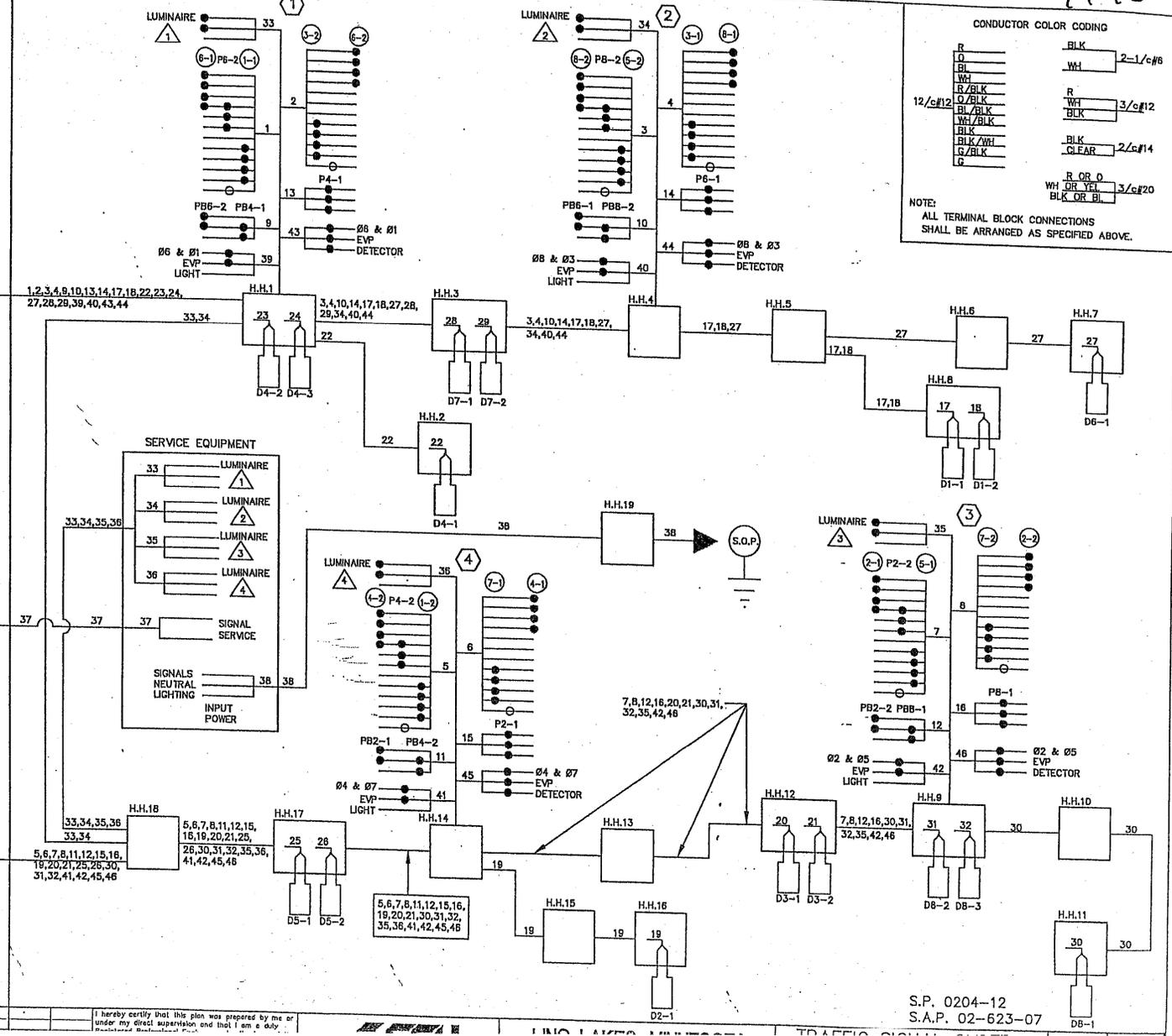
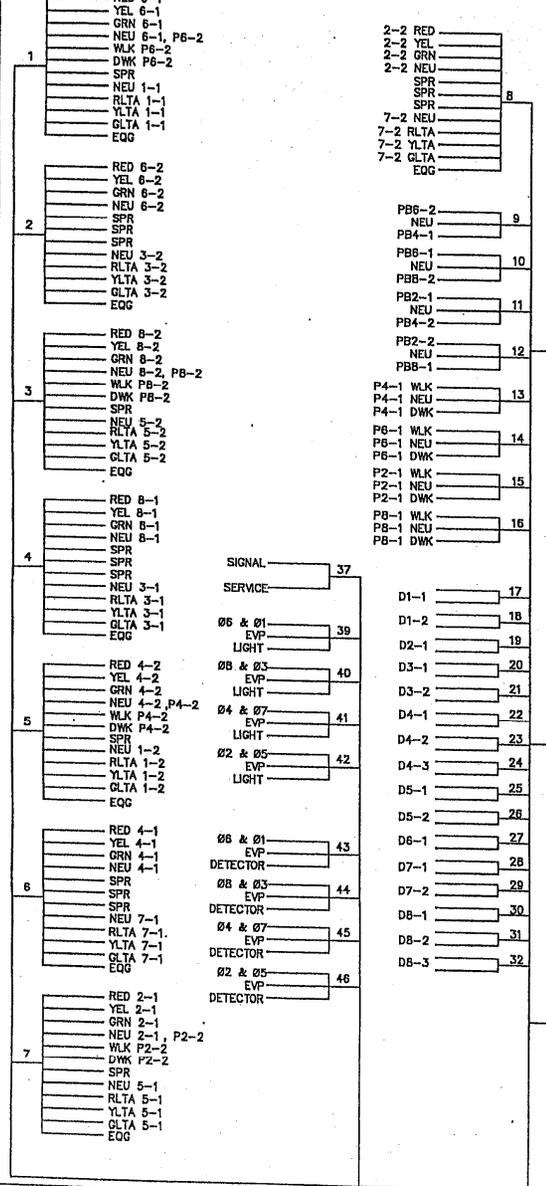
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S.P. 0204-12
S.A.P. 02-623-07

7196

CONTROLLER CABINET



1 JWG/S/24 Per Mn/DOT Comments
 2 JWG/S/29 Per Mn/DOT Review (State-Aid)
 3 JWG/S/61

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer.

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