

PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F. FRAME C. CONCRETE
S. STONE T. TILE
B. BRICK ST. STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE-MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



PIT DATA

PIT NO. _____ Located in _____
PIT NO. _____ Located in _____

THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF
TRANSPORTATION "STANDARD SPECIFICATIONS FOR
HIGHWAY CONSTRUCTION" SHALL GOVERN.

OFFICE OF COUNTY ENGINEER RAMSEY COUNTY

PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF

LEXINGTON AVE. & COUNTY RD. B2

S.A.P. NO. 62-651-13 C.T.B.



LEXINGTON AVE. & COUNTY RD. B2
S.A.P. NO. 62-651-13 C.T.B.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE
2	DETAILS & QUANTITIES
3	INTERSECTION LAYOUT
4-5	FIELD WIRING DIAGRAM
6-8	INFORMATION

I hereby certify that this plan, specification,
or report 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.
Paul L. Kunkel
Date: 10-3-78 Reg. No. 12703

RECOMMENDED FOR APPROVAL *P.K.* DATE 10-3-78
TRAFFIC ENGR
RECOMMENDED FOR APPROVAL *W.S.* DATE 10-4-78
ENV. ENGR
RECOMMENDED FOR APPROVAL *M.S.* DATE 10-6-78
MAINT. ENGR
RECOMMENDED FOR APPROVAL *J.P.* DATE 10-6-78
CONS. ENGR
RECOMMENDED FOR APPROVAL *L.K.F.* DATE 10-11-78
DESIGN ENGR
RECOMMENDED FOR APPROVAL *J.P.* DATE 10-6-78
CONS. ENGR
APPROVED *W.S.* DATE 12-24-78
SUPERVISING ENGR

RECOMMENDED FOR APPROVAL *Paul L. Kunkel* DATE 10-4-78
TRAFFIC ENGINEER
RECOMMENDED FOR APPROVAL *Robert J. Outh* DATE 10-26-78
COUNTY ENGINEER
APPROVED *Robert J. Outh* DATE 4-10-79
CHAIRMAN OF THE RAMSEY COUNTY BOARD
APPROVED *James J. Senne* DATE _____
MAYOR, CITY OF ROSEVILLE
APPROVED _____ DATE _____
MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL *Delbert D. O'Connell* DATE 3-6-79
DISTRICT STATE AID ENGINEER
RECOMMENDED FOR APPROVAL *Charles J. Outh* DATE 2/2/79
DISTRICT STATE AID ENGINEER
APPROVAL *Charles J. Outh* DATE 3/7/79
STATE AID ENGINEER

PLANS SYMBOLS

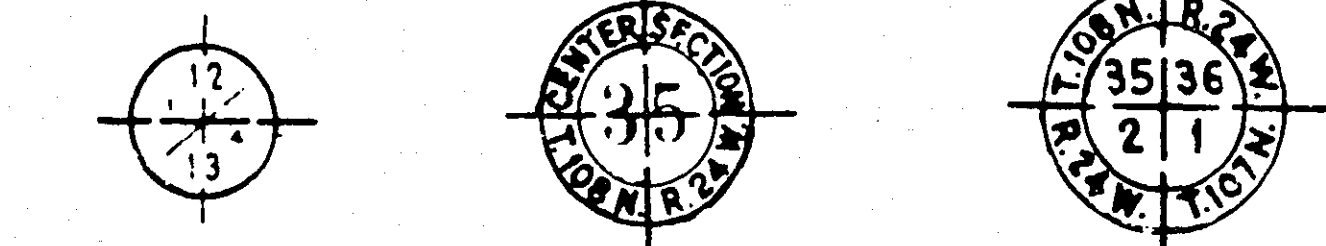
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STEEL TOWER	----
STREET LIGHT	----
PEDESTAL TELEPHONE CABLE TERMINAL	----
GAS MAIN	----
WATER MAIN	----

CONDUIT	----
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BURIED ELECTRIC CABLE	----
AERIAL TELEPHONE CABLE	----
SEWER, (SANITARY OR STORM)	----
SEWER MANHOLE	----



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO. _____	Located in _____
PIT NO. _____	Located in _____



LEXINGTON AVE. & COUNTY RD. B2
S.A.P. NO. 62-651-13 C.T.B.

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PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF

LEXINGTON AVE. & COUNTY RD. B2
S.A.P. NO. 62-651-13 C.T.B.

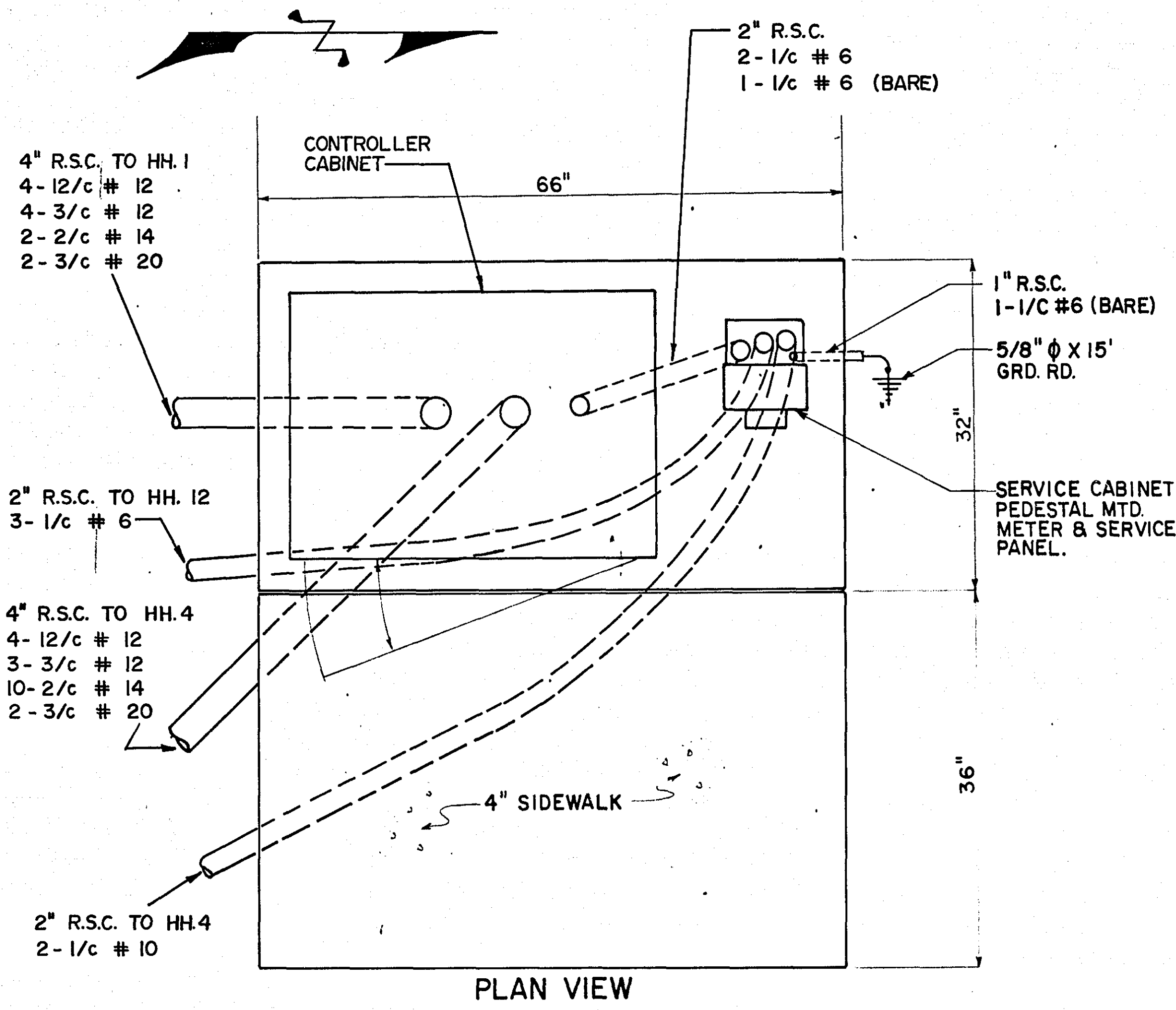
INDEX

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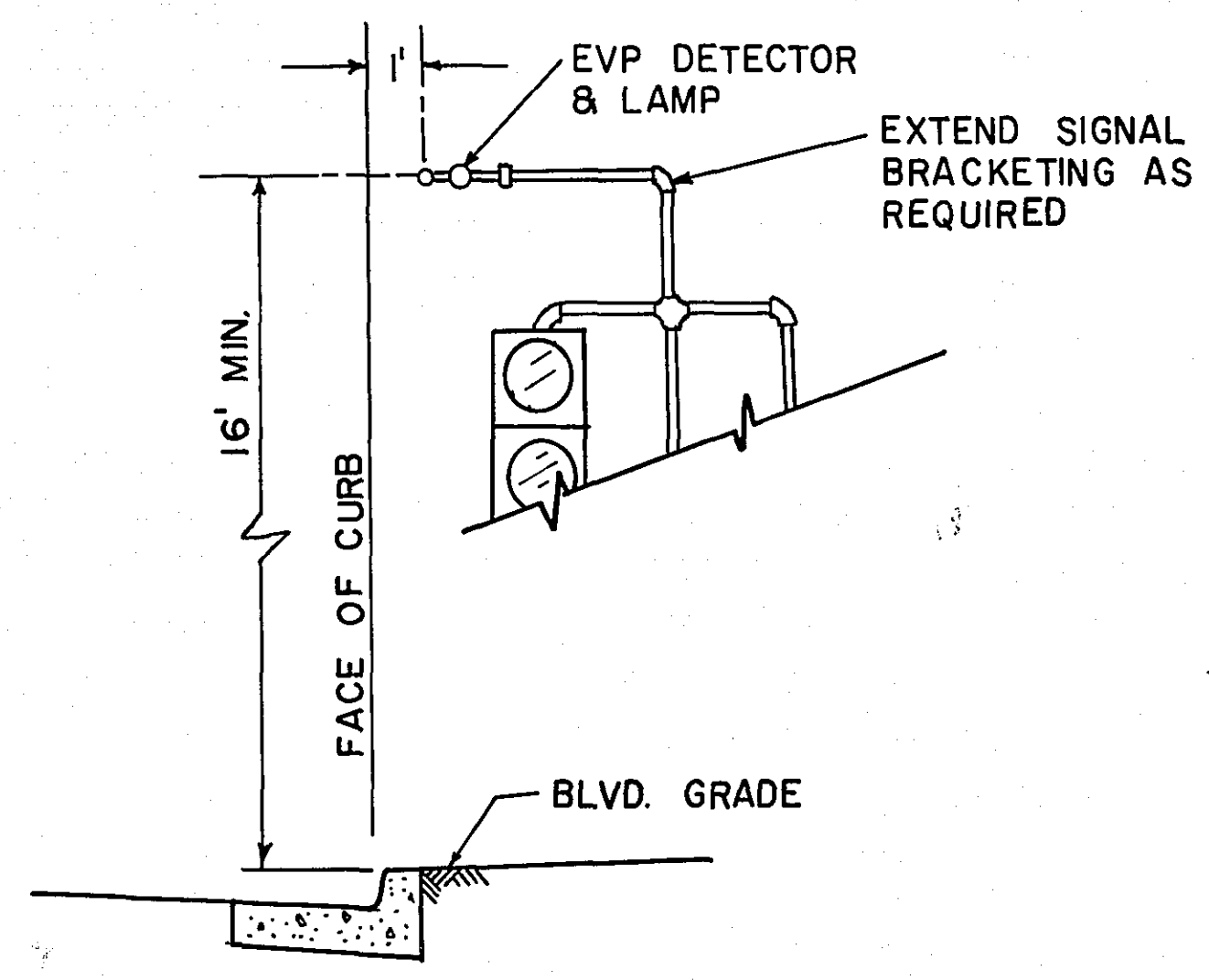
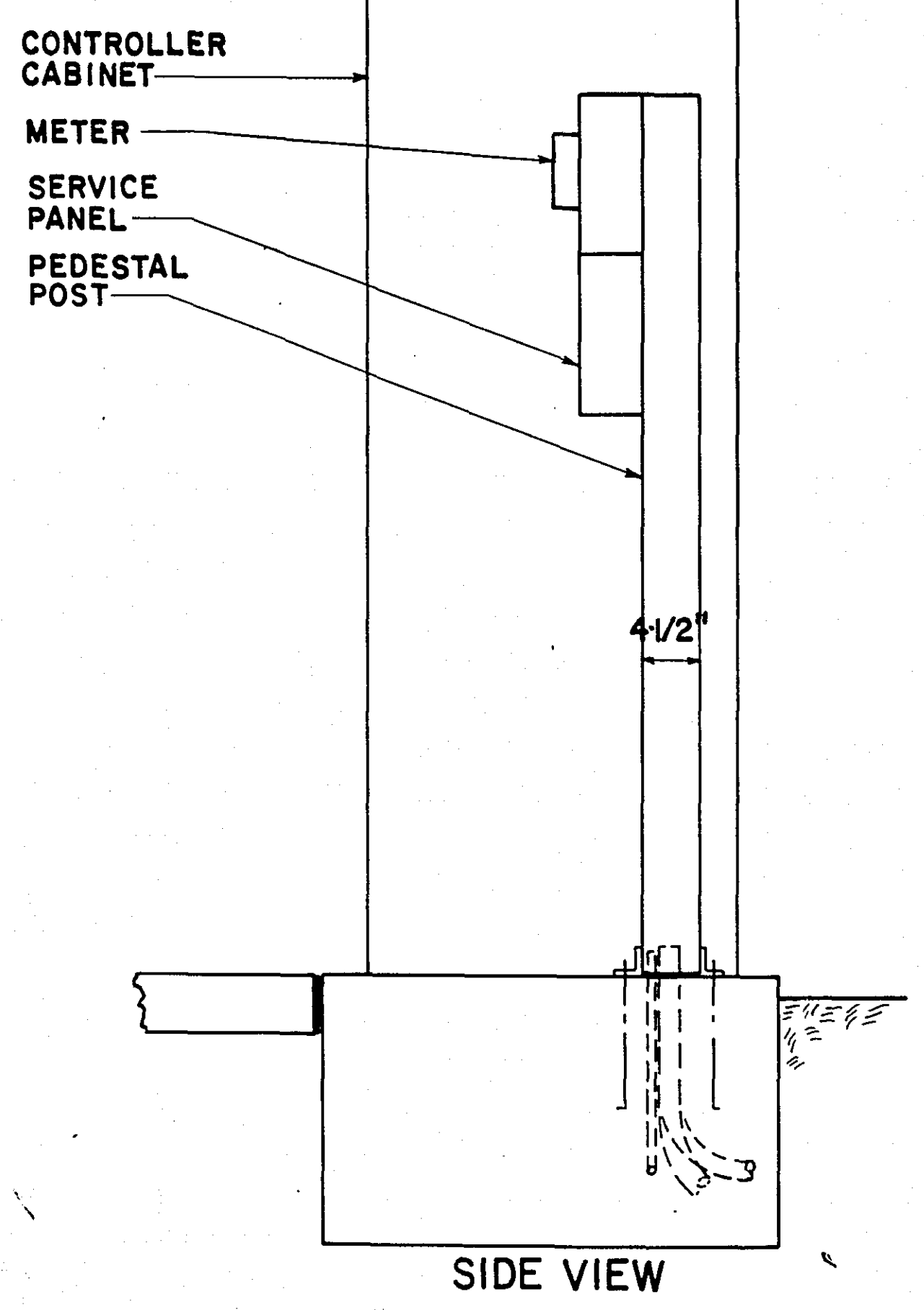
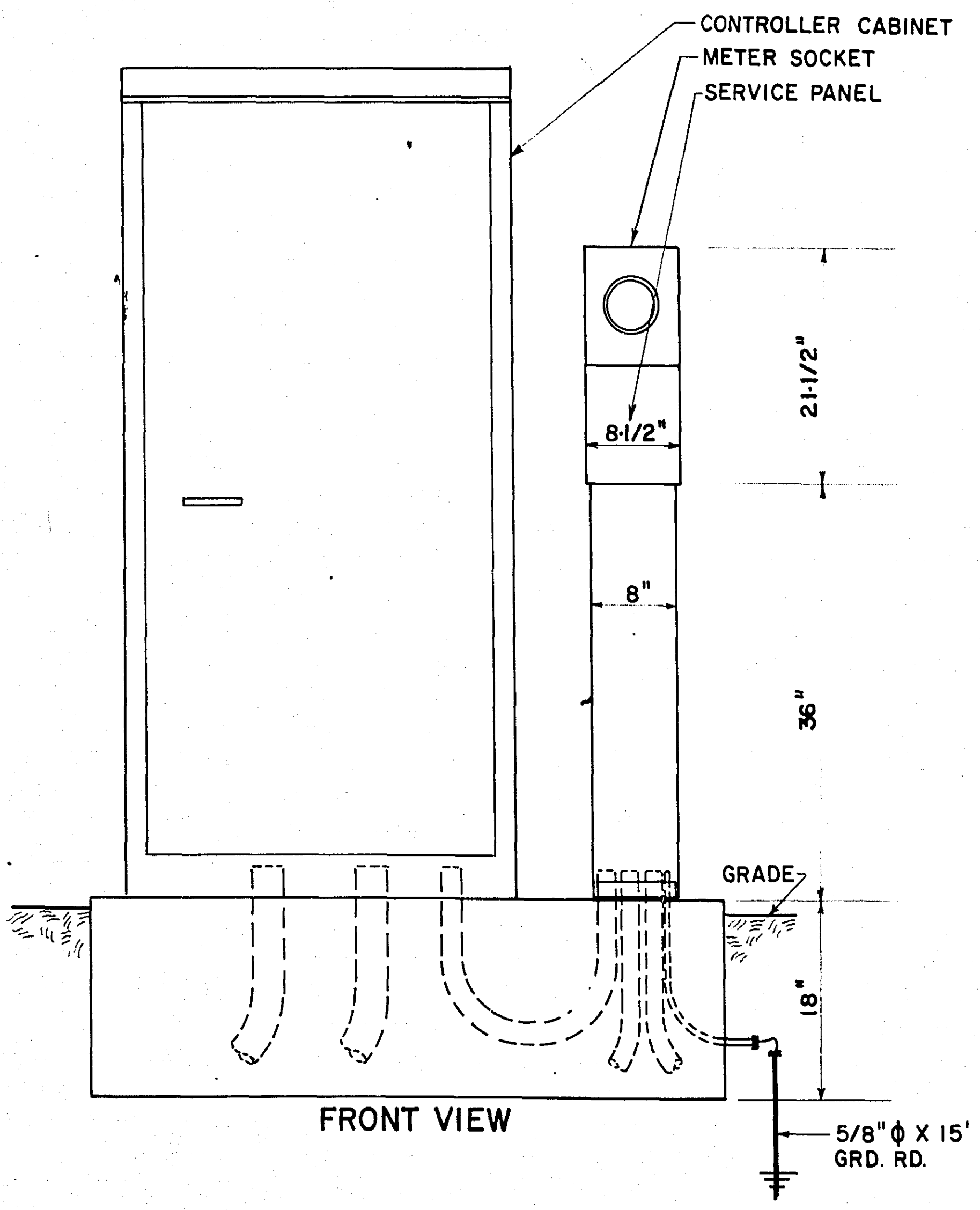
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Paul L. Kuchel
Date: 10-3-78 Reg. No. 12703

RECOMMENDED FOR APPROVAL <i>PK</i> DATE 10-3-78	RECOMMENDED FOR APPROVAL <i>Paul L. Kuchel</i> DATE 10-4-78
TRAFFIC ENGR	TRAFFIC ENGINEER
RECOMMENDED FOR APPROVAL <i>DEJ</i> DATE 10-4-78	RECOMMENDED FOR APPROVAL <i>Robert J. O'Neil</i> DATE 10-26-78
ENV. ENGR	COUNTY ENGINEER
RECOMMENDED FOR APPROVAL <i>MDX</i> DATE 10-6-78	APPROVED <i>Robert J. O'Neil</i> DATE 4-10-79
MAINT. ENGR	CHAIRMAN OF THE RAMSEY COUNTY BOARD
RECOMMENDED FOR APPROVAL <i>QAP</i> DATE 10-6-78	APPROVED <i>James J. O'Neil</i> DATE _____
CONST. ENGR	MAYOR, CITY OF ROSEVILLE
RECOMMENDED FOR APPROVAL <i>LKF</i> DATE 10-11-78	APPROVED _____ DATE _____
DESIGN ENGR	
RECOMMENDED FOR APPROVAL <i>QAP</i> DATE 10-6-78	MINNESOTA STATE HIGHWAY DEPARTMENT
ROAD ENGR	
APPROVED <i>Walter J. O'Neil</i> DATE 10-24-78	RECOMMENDED FOR APPROVAL <i>Delbert O. O'Neil</i> DATE 3-6-79
ROAD ENGR	DISTRICT STATE AID ENGINEER
	RECOMMENDED FOR APPROVAL <i>Delbert O. O'Neil</i> DATE 3-6-79
	DISTRICT STATE AID ENGINEER
	APPROVAL <i>Delbert O. O'Neil</i> DATE 3-7-79
	STATE AID ENGINEER

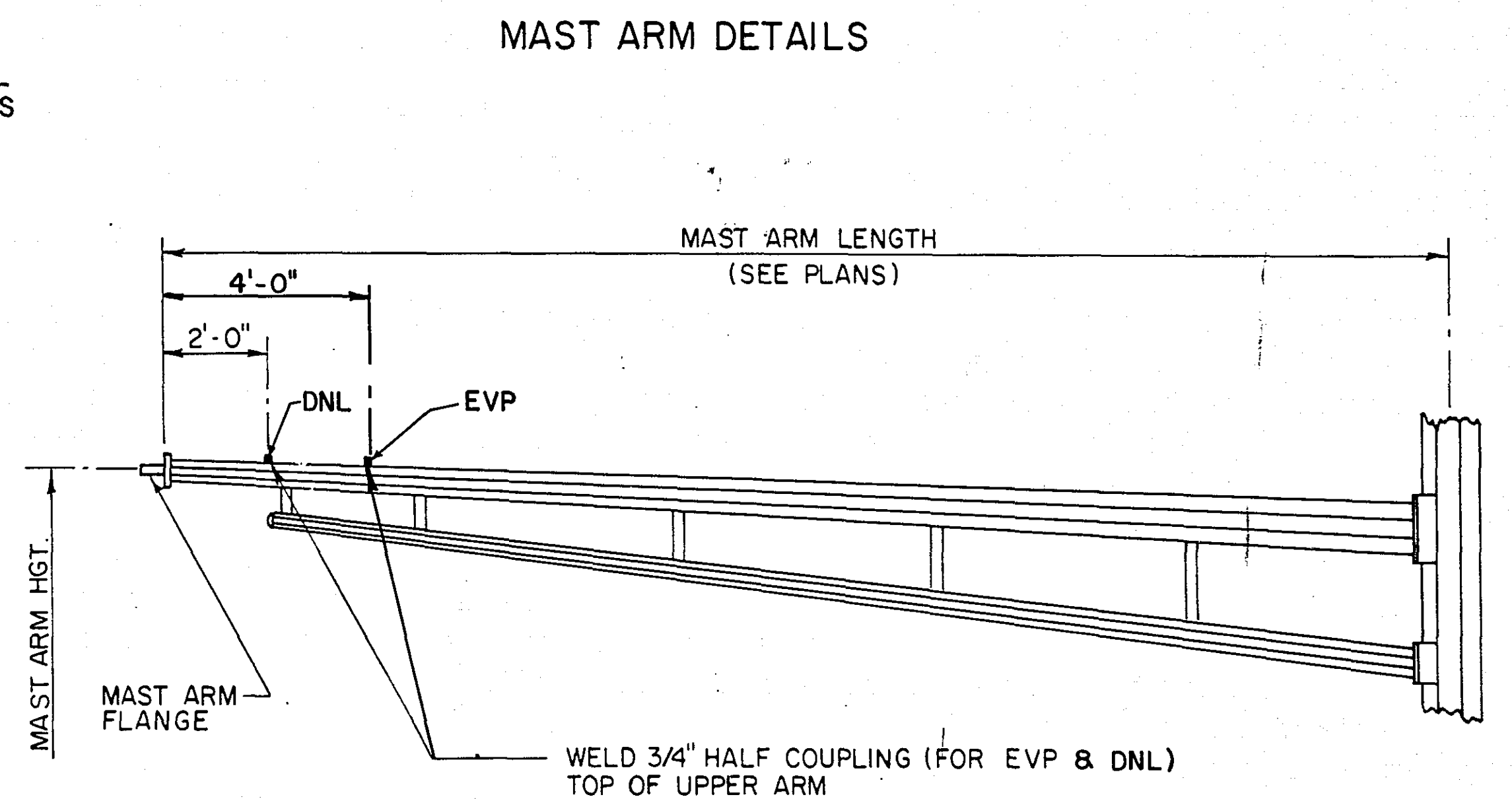
EQUIPMENT PAD DETAILS



1. ANCHOR RODS, NUTS AND WASHERS PER MN/DOT 3385 OR APPROVED EQUAL SET AS RECOMMENDED BY CABINET MANUFACTURER (NUMBER, SIZE AND LENGTH OF ANCHOR RODS SHALL BE AS REQUIRED BY THE CABINET (MANUFACTURER)).
2. UPPER PART OF FOUNDATION SHALL BE BEVELED OR CHAMFERED IN A NEAT MANNER AS DIRECTED BY THE ENGINEER IN THE FIELD.
3. TOP OF CONDUITS SHALL BE THREADED AND CAPPED AFTER INSTALLATION (UNTIL CABLES ARE INSTALLED) CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE CONCRETE AND SHALL BE LOCATED INSIDE THE CABINET WHERE DIRECTED BY THE ENGINEER BUT SHALL NOT INTERFERE WITH CABINET FUNCTIONS. (SUPPORTING MEMBERS, ETC.)
4. CONCRETE MIX 3A32 OR EQUAL SHALL BE USED FOR FOUNDATION AND CONCRETE WALK.
5. CONDUITS WHICH HAVE BOTH ENDS TERMINATING WITHIN THE PAD SHALL NOT BE INSTALLED BELOW THE CONCRETE.
6. EXACT LOCATIONS OF CONDUIT WITHIN THE PAD SHALL BE AS DETERMINED BY THE ENGINEER IN THE FIELD.

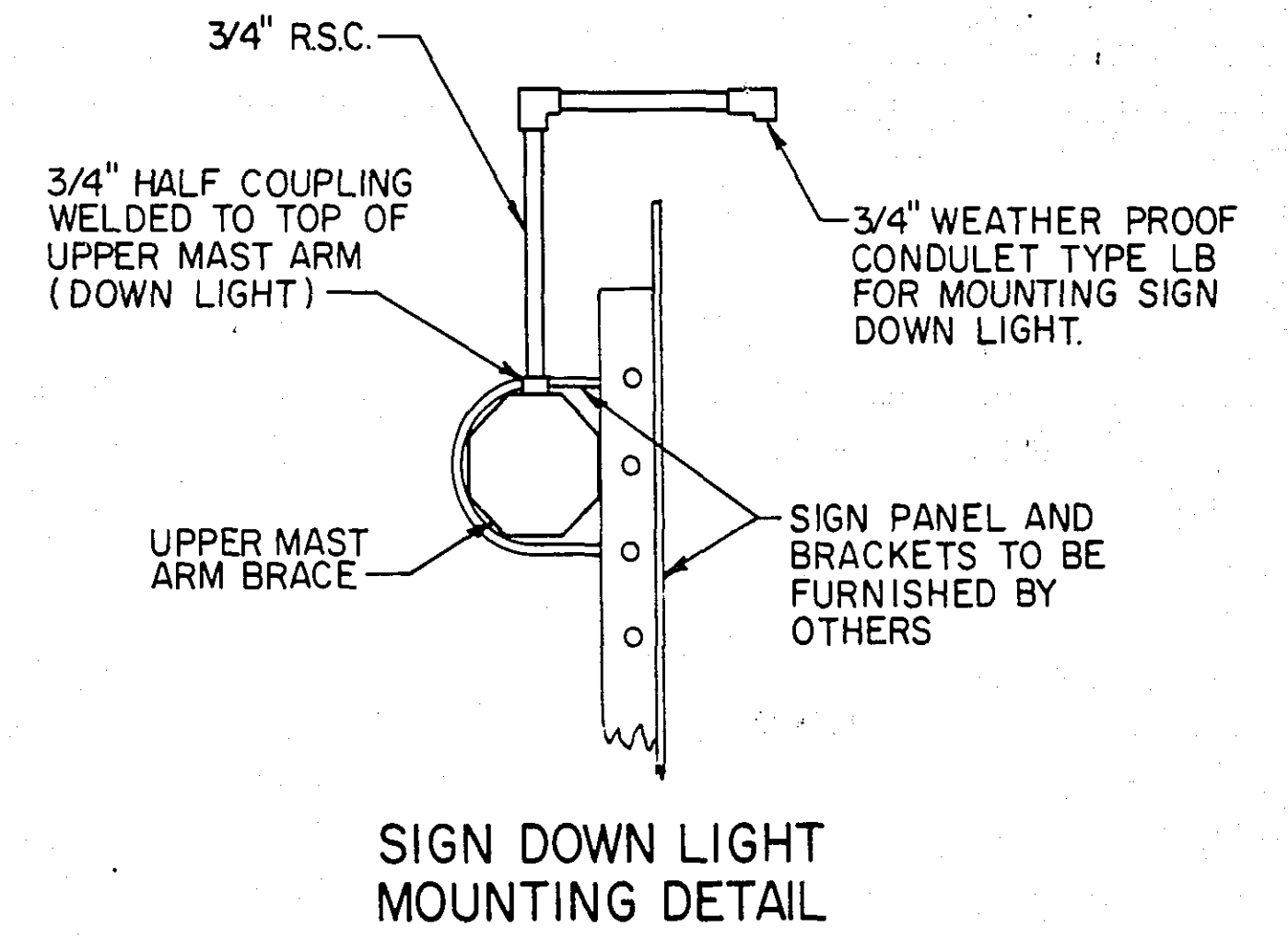


TYP. PEDESTAL MTG. FOR EVP DETECTOR & LAMP



ABBREVIATIONS

- EQUIPMENT & INDICATIONS
- RED - RED
YEL - YELLOW
GRN - GREEN
LTA - LEFT TURN ARROW
THA - THRU ARROW
RTA - RIGHT TURN ARROW
TRA - THRU AND RIGHT ARROW
WLK - WALK
NEU - NEUTRAL
DWK - DON'T WALK
SW - SWITCH
SWD - SWITCHED
LUM - LUMINAIRE
PA1 (eg) - PEDESTRIAN INDICATION - "A" PHASE
PBB2 (eg) - PUSH BUTTON - "B" PHASE
C3 (eg) - SIGNAL HEAD - "C" PHASE
DA4 (eg) - DETECTOR - "A" PHASE
H.H. - HANDHOLE
GR.R. - GROUND ROD
SERV. - SERVICE
EVP - EMERGENCY VEHICLE PRE-EMPTION
- COLOR CODING OF CONDUCTOR
- R - RED
O - ORANGE
BL - BLUE
WH - WHITE
R/BLK - RED WITH BLACK TRACER
O/BLK - ORANGE WITH BLACK TRACER
BL/BLK - BLUE WITH BLACK TRACER
WH/BLK - WHITE WITH BLACK TRACER
BLK - BLACK
BLK/WH - BLACK WITH WHITE TRACER
G/BLK - GREEN WITH BLACK TRACER
G - GREEN
- DNL - DOWNLIGHT
PE.C. - PHOTOELECTRIC CELL
ST. LHT. - STREET LIGHT
CH. - CHECK
S.O.P. - SOURCE OF POWER
EQ.G. - EQUIPMENT GROUND
SPR - SPARE CONDUCTOR



STANDARD PLATES	
PLATE NO.	TITLE
* 8110 C	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
* 8111 B	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)
* 8112 B	PEDESTAL FOUNDATION
* 8113 B	MAGNETIC VEHICLE DETECTOR INSTALLATION
* 8115 B	PEDESTRIAN PUSH BUTTON INSTALLATION
* 8116 C	STEEL GUARD POST
* 8117 E	PRECAST CONCRETE HANDHOLE
* 8118 B	SERVICE EQUIPMENT & POLE, TRAFFIC CONTROL SIGNALS
* 8119 B	GROUND MOUNTED CABINET FOUNDATION
* 8120 D	MAST ARM POLE FOUNDATION
* 8122 B	PEDESTAL AND PEDESTAL BASE
* 8123 A	POLE AND MAST ARM (LUMINAIRES AND TRAFFIC LIGHTS)
* 8124 B	SIGNAL HEAD MOUNTS
* 8125 A	SWING-AWAY HINGE (FOR TRAFFIC SIGNAL ARM MAST)
* 8130 B	SAW CUT LOOP DETECTORS

* STANDARD PLATES APPLICABLE TO THIS PROJECT

STATEMENT OF ESTIMATED QUANTITIES				
PROJECT NO.	ITEM NO.	ITEM	UNIT	QUANT.
62-651-13 C.T.B.	2565.501	FULL TRAFFIC ACTUATED TRAFFIC CONTROL SYSTEM	SYSTEM	1
TRF 508-31	565.604	EMERGENCY VEHICLE PRE-E MPTION SYSTEM	SYSTEM	1

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

Paul L. Kishner

Date: 10-3-78 Reg. No. 12703

DETAILS

SIGNAL BASE NO. _____ (5) (A2)

SIGNAL FACE NO. _____

CONTROLLER AND CABINET _____

CONTROLLER AND CABINET-INPLACE _____

HANDHOLE _____

HANDHOLE - INPLACE _____

RIGID STEEL CONDUIT (R.S.C.) _____

RIGID STEEL CONDUIT (R.S.C.) - INPLACE _____

SIGNAL FACE _____

SIGNAL FACE WITH BACKGROUND SHIELD _____

SIGNAL FACE - INPLACE _____

PEDESTRIAN INDICATIONS _____

PEDESTRIAN INDICATIONS - INPLACE _____

PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE _____

PEDESTRIAN PUSH BUTTON STATION _____

TRAFFIC SIGNAL PEDESTAL _____

TRAFFIC SIGNAL PEDESTAL - INPLACE _____

TRAFFIC SIGNAL POLE AND MAST ARM _____

TRAFFIC SIGNAL POLE AND MAST ARM - INPLACE _____

MAST ARM AND LUMINAIRE _____

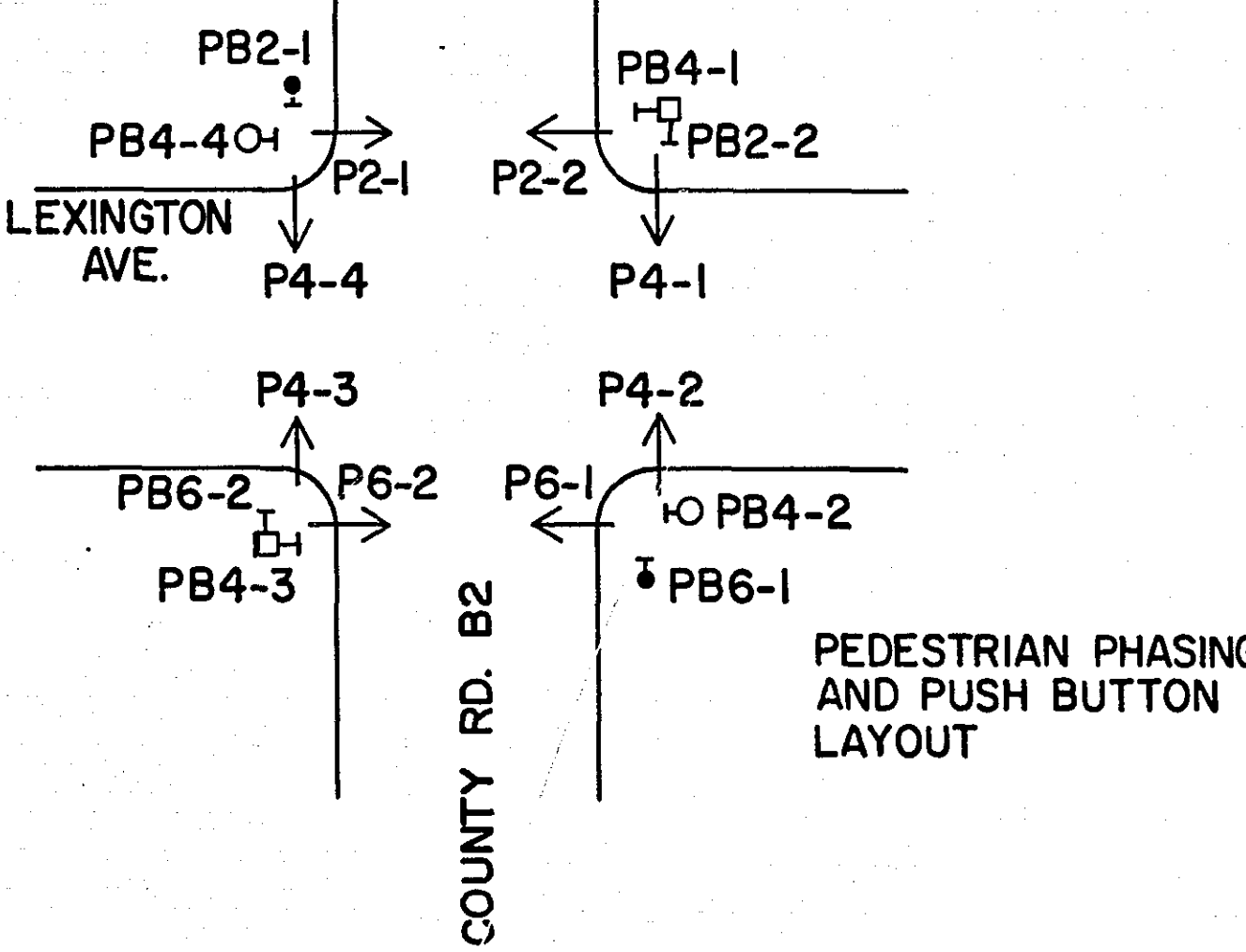
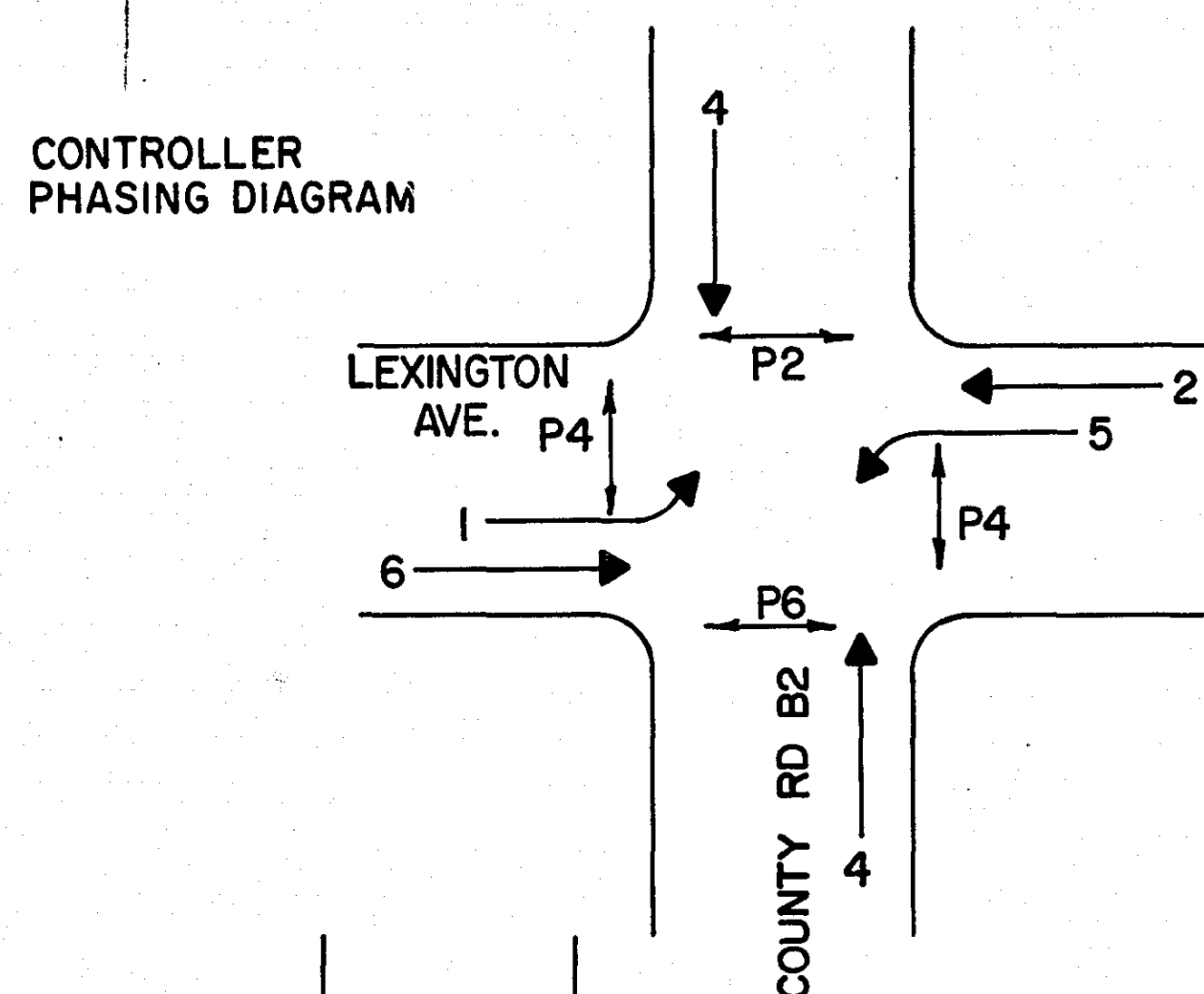
MAST ARM AND LUMINAIRE - INPLACE _____

WOOD POLE _____

WOOD POLE - INPLACE _____

SOURCE OF POWER _____

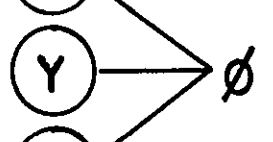
EMERGENCY VEHICLE PRE-EMPTION DETECTOR LOCATION _____

[illegible]

VEHICLE		DETECTION
NUMBER	SIZE	OPERATION
D1-1	6' x 40'	EXTEND ONLY
D1-2	6' x 25'	CALL & EXTEND
D2-1	6' x 6'	CALL & EXTEND
D2-2	8' x 10' 6'	CALL ONLY
D4-1	6' x 8' 10'	CALL & EXTEND
D4-2	8' 10' x 16' 14'	CALL ONLY
D4-3	6' x 8' 10'	CALL & EXTEND
D4-4	8' 10' x 16' 13'	CALL ONLY
D5-1	6' x 40'	EXTEND ONLY
D5-2	6' x 25'	CALL & EXTEND
D6-1	6' x 6'	CALL & EXTEND
D6-2	8' x 10' 6'	CALL ONLY

① TIME DELAYED

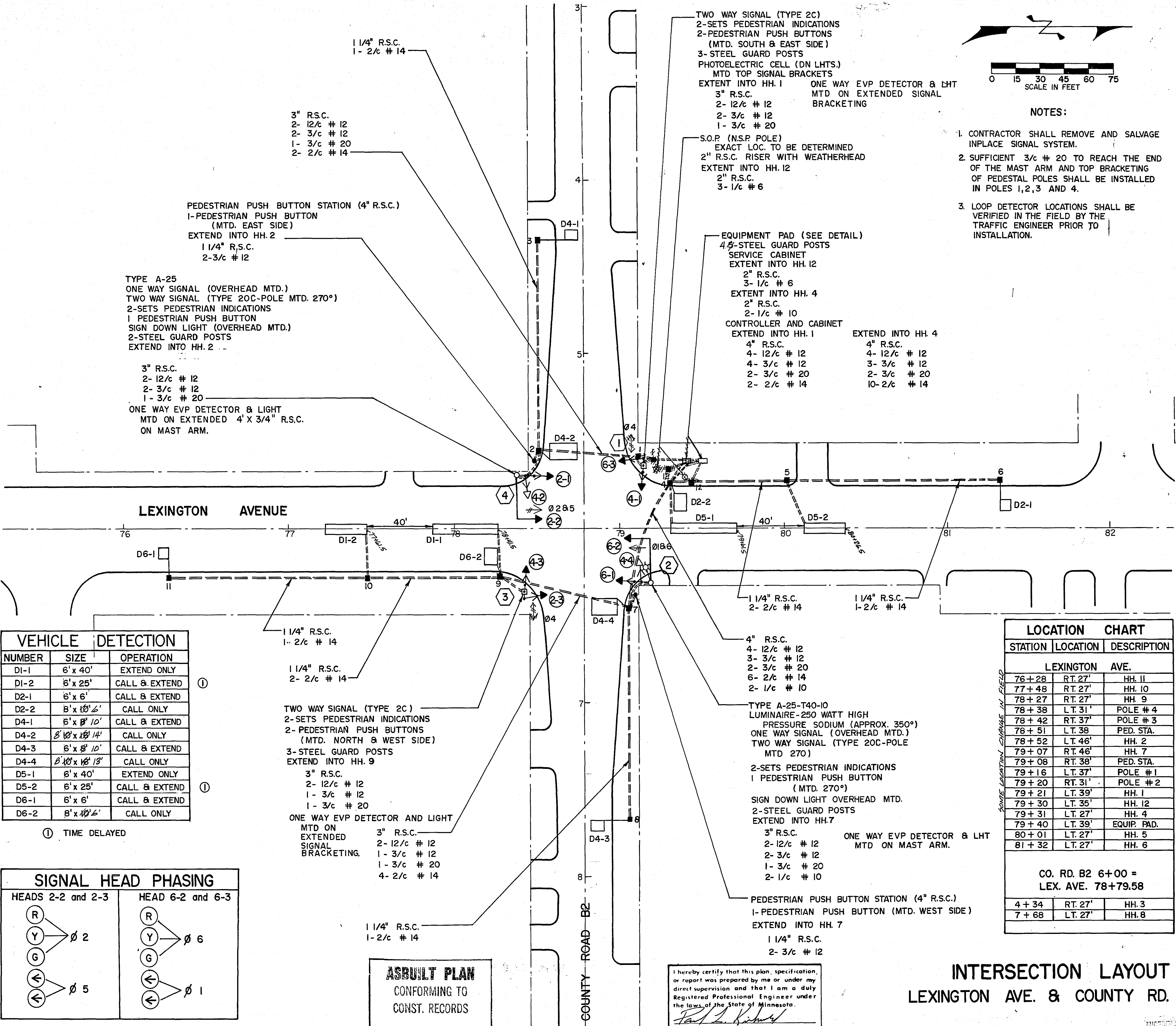
SIGNAL HEAD PHASING

HEADS 2-2 and 2-3	HEAD 6-2 and 6-3
 Diagram showing three signal heads (R, Y, G) with a combined width of 2 units.	 Diagram showing three signal heads (R, Y, G) with a combined width of 6 units.
 Diagram showing two signal heads (left arrow, right arrow) with a combined width of 5 units.	 Diagram showing two signal heads (left arrow, right arrow) with a combined width of 1 unit.

**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: R. Weber

DATE: 6-19-80



LOCATION		CHART
STATION	LOCATION	DESCRIPTION
LEXINGTON		AVE.
76 + 28	R.T. 27'	HH. 11
77 + 48	R.T. 27'	HH. 10
78 + 27	R.T. 27'	HH. 9
78 + 38	L.T. 31'	POLE # 4
78 + 42	R.T. 37'	POLE # 3
78 + 51	L.T. 38	PED. STA.
78 + 52	L.T. 46'	HH. 2
79 + 07	R.T. 46'	HH. 7
79 + 08	R.T. 38'	PED. STA.
79 + 16	L.T. 37'	POLE # 1
79 + 20	R.T. 31'	POLE # 2
79 + 21	L.T. 39'	HH. 1
79 + 30	L.T. 35'	HH. 12
79 + 31	L.T. 27'	HH. 4
79 + 40	L.T. 39'	EQUIP. PAD.
80 + 01	L.T. 27'	HH. 5
81 + 32	L.T. 27'	HH. 6
CO. RD. B2 6+00 = LEX. AVE. 78+79.58		
4 + 34	R.T. 27'	HH. 3
7 + 68	L.T. 27'	HH. 8

INTERSECTION LAYOUT

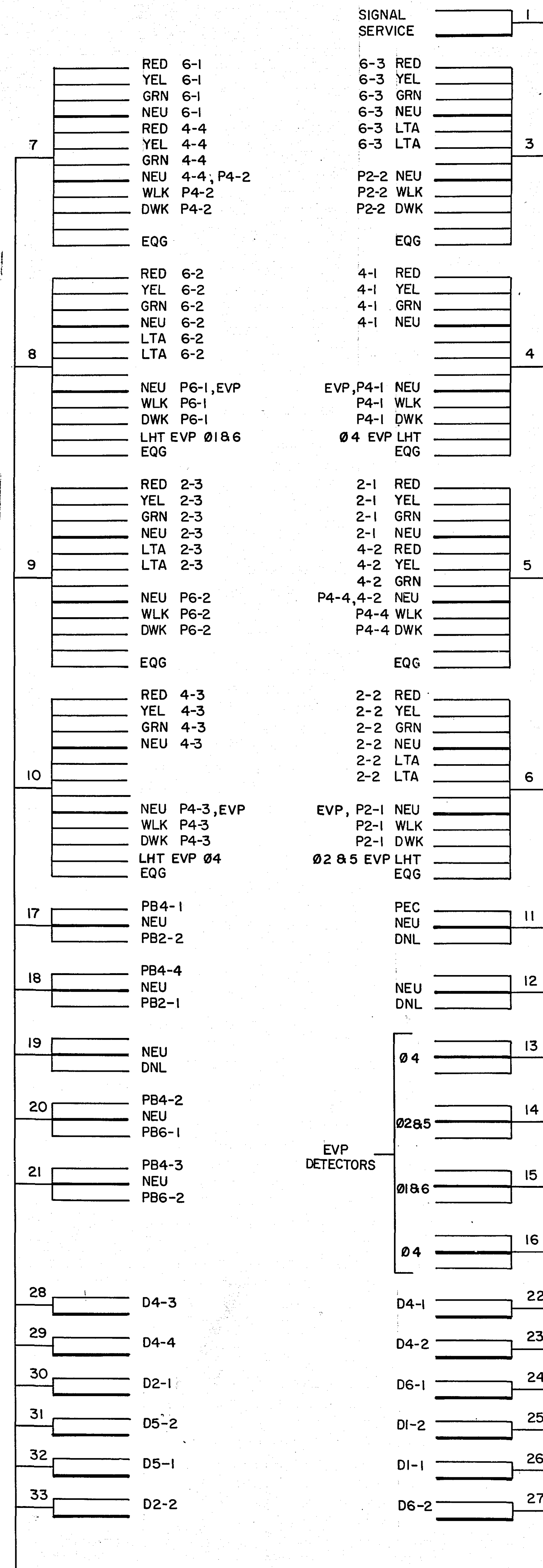
LEXINGTON AVE. & COUNTY RD. B2

S.A.P. NO. 62-651-13 C.T.B.

SHEET NO. 3 | OF 8 SHEETS

23-116

CONTROLLER CABINET



CONDUCTOR COLOR CODING

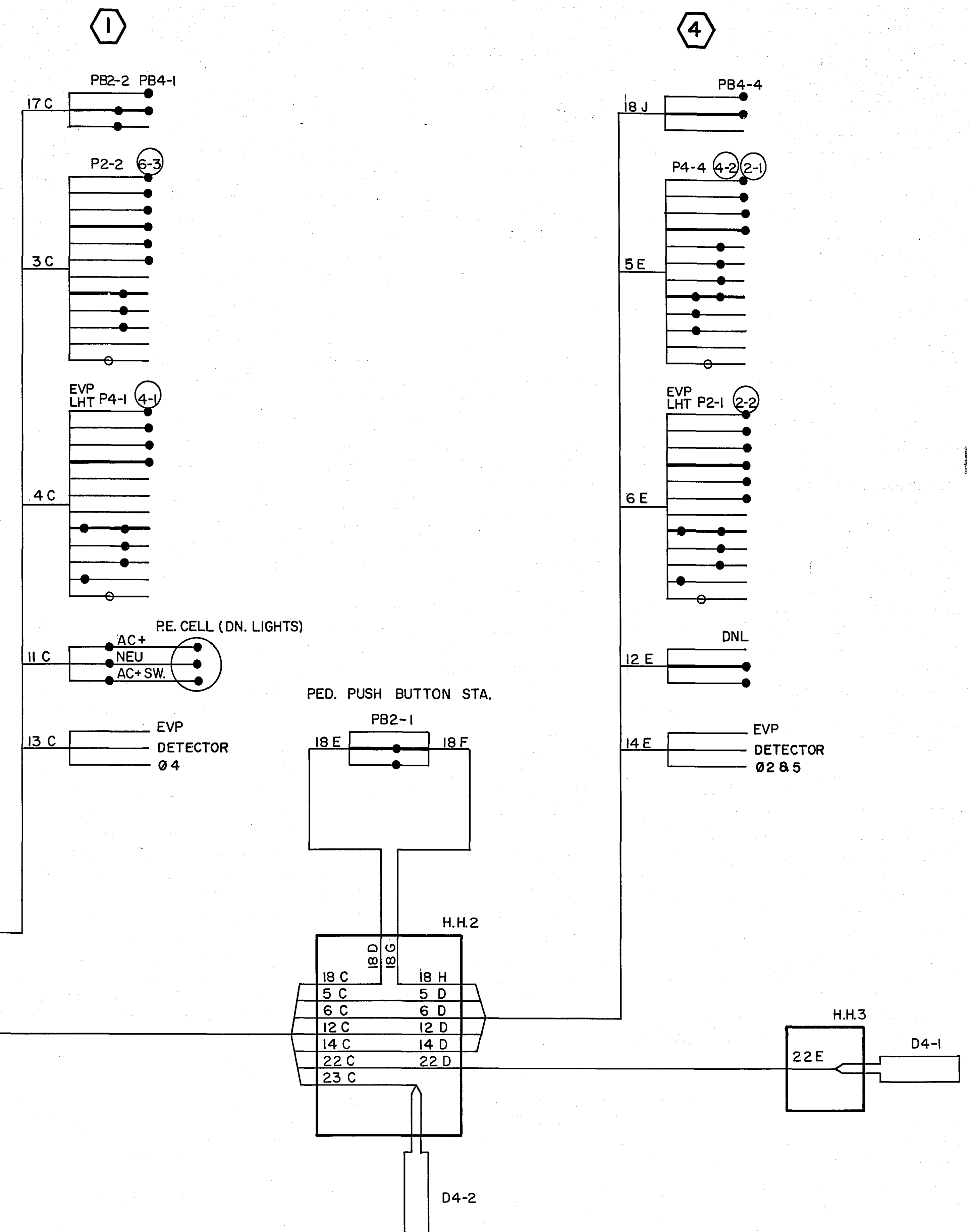
R	BLK
Ø	2-1/c #6
BL	WH
WH	2-1/c #10
R/BLK	R
Ø/BLK	WH
BL/BLK	3/c #12
WH/BLK	BLK
BLK	BLK
BLK/WH	CLEAR
G/BLK	2/c #14
G	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

FROM SERVICE CABINET
SEE SHEET 5

TO H.H.4
SEE SHEET 5

H.H.1	
17 A	17 B
3 A	3 B
4 A	4 B
11 A	11 B
13 A	13 B
18 A	18 B
5 A	5 B
6 A	6 B
12 A	12 B
14 A	14 B
22 A	22 B
23 A	23 B



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

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DATE: 6-19-80

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Paul L. Kishner

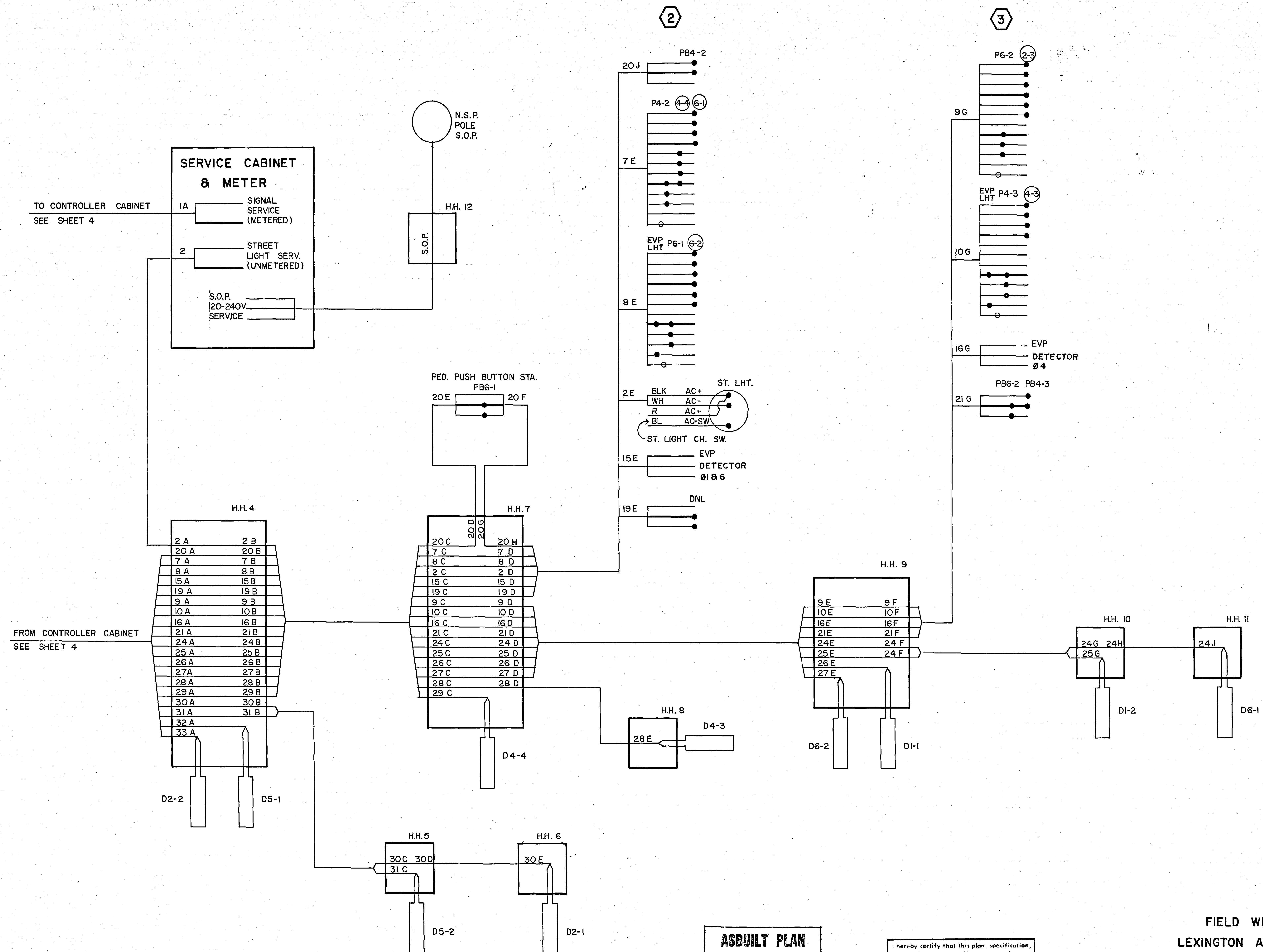
Date 10-3-78 Reg. No. 12703

S.A.P. NO. 62-651-13 C.T.B.

FIELD WIRING DIAGRAM
LEXINGTON AVE. & COUNTY RD. B2

Sheet No. 4 of 8 Sheets

23-116



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *R. Ullrich*
DATE: 6-19-80

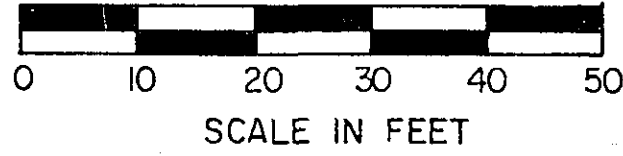
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FIELD WIRING DIAGRAM
LEXINGTON AVE. & COUNTY RD. B2

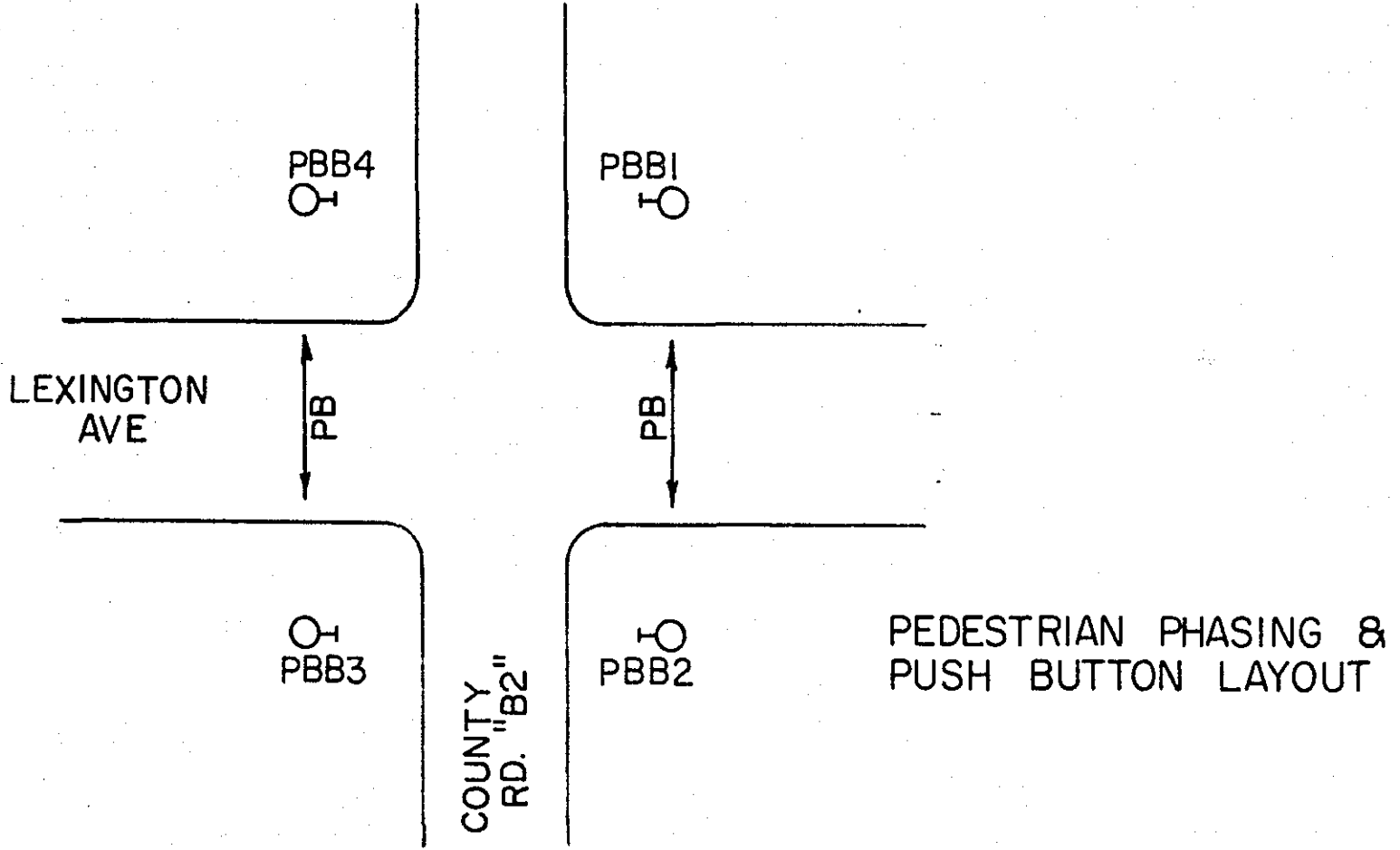
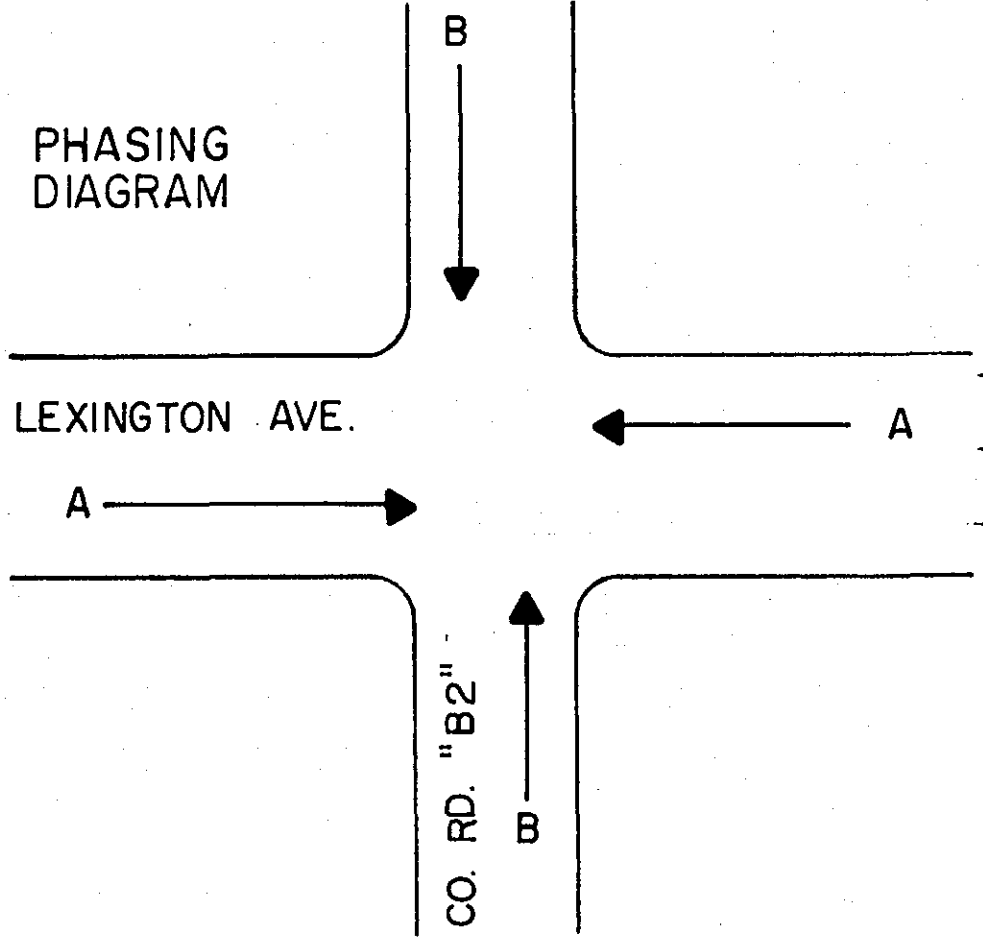
S.A.P. NO. 62-651-13 C.T.B.

Sheet No. 5 of 8 Sheets

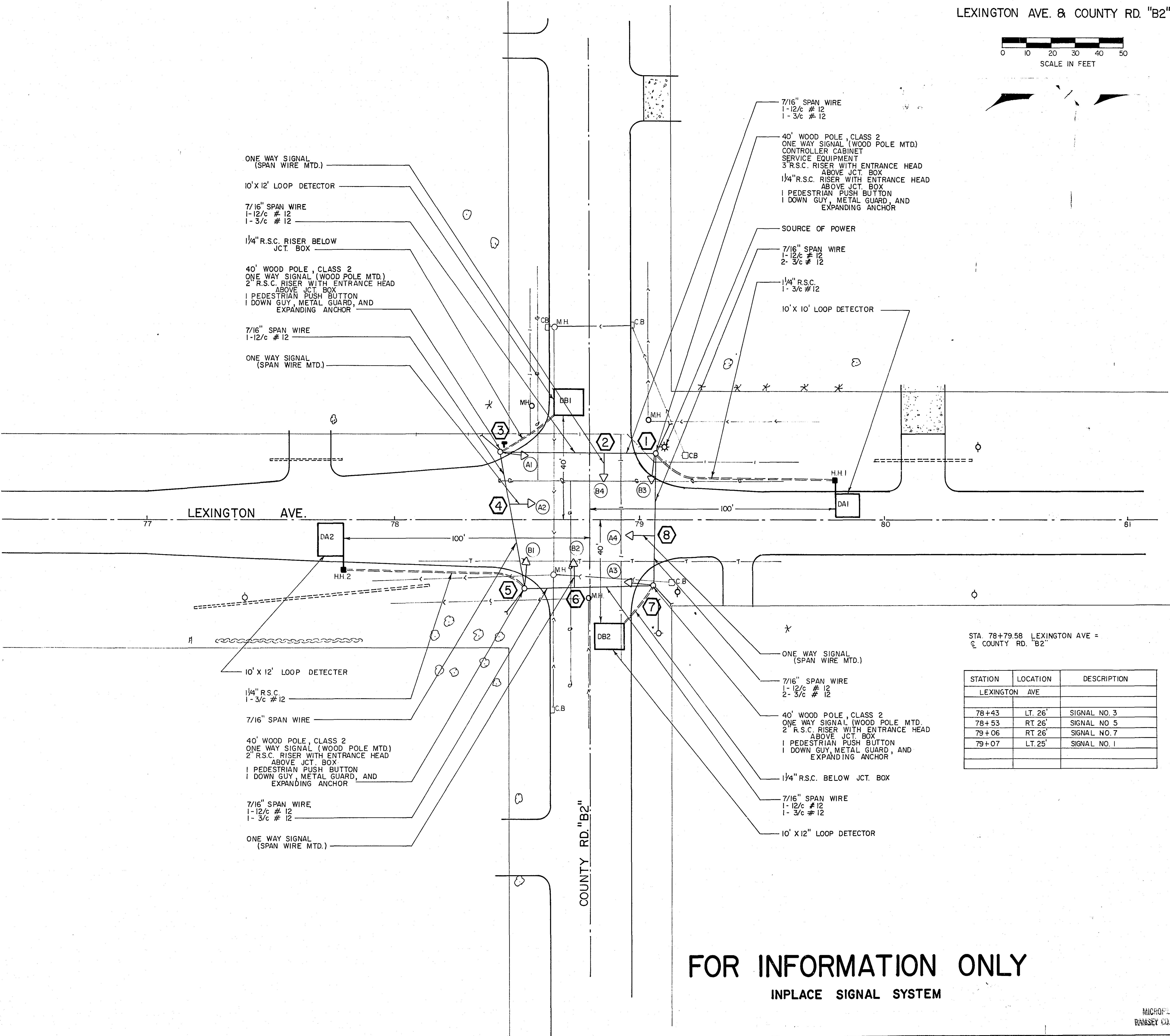
23-116



LEGEND OF SYMBOLS	
[Symbol]	CONTROLLER
[Symbol]	HANDHOLE (PULLBOX)
[Symbol]	RIGID STEEL CONDUIT (R.S.C.)
[Symbol]	SIGNAL FACE
[Symbol]	SIGNAL FACE WITH BACKGROUND SHIELD
[Symbol]	PEDESTRIAN INDICATION
[Symbol]	SOURCE OF POWER (S.O.P.)
[Symbol]	WOOD POLE



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A	R	12"	12"	12"	-	-	-
A2	A	R	12"	12"	12"	-	-	-
A3	A	R	12"	12"	12"	-	-	-
A4	A	R	12"	12"	12"	-	-	-
B1	B	R	12"	12"	12"	-	-	-
B2	B	R	12"	12"	12"	-	-	-
B3	B	R	12"	12"	12"	-	-	-
B4	B	R	12"	12"	12"	-	-	-

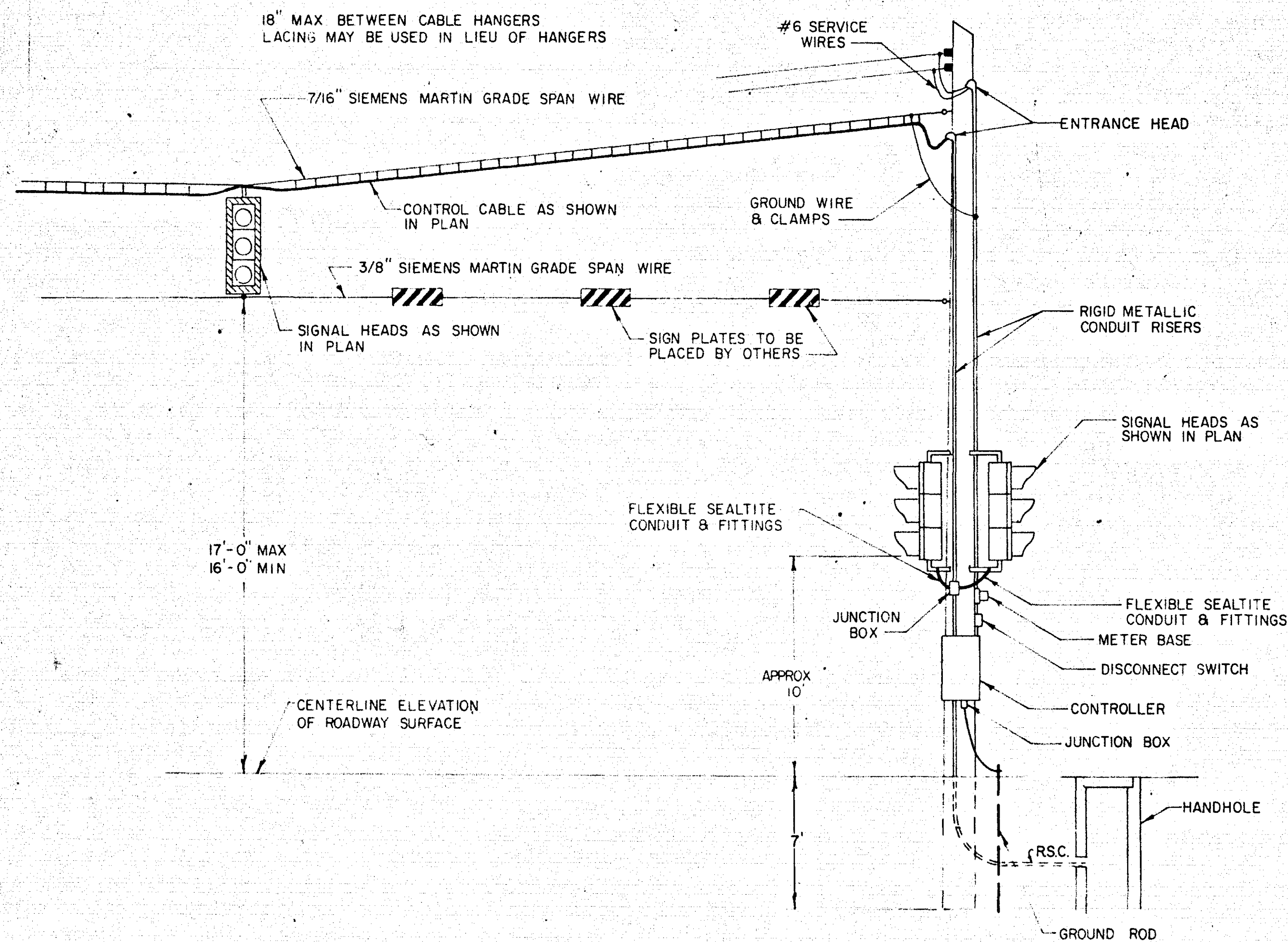


STA. 78+79.58 LEXINGTON AVE =
COUNTY RD. "B2"

STATION	LOCATION	DESCRIPTION
	LEXINGTON AVE	
78+43	LT 26'	SIGNAL NO. 3
78+53	RT 26'	SIGNAL NO. 5
79+06	RT 26'	SIGNAL NO. 7
79+07	LT 25'	SIGNAL NO. 1

FOR INFORMATION ONLY
INPLACE SIGNAL SYSTEM

TEMPORARY WOOD POLE TRAFFIC SIGNAL



ABBREVIATIONS

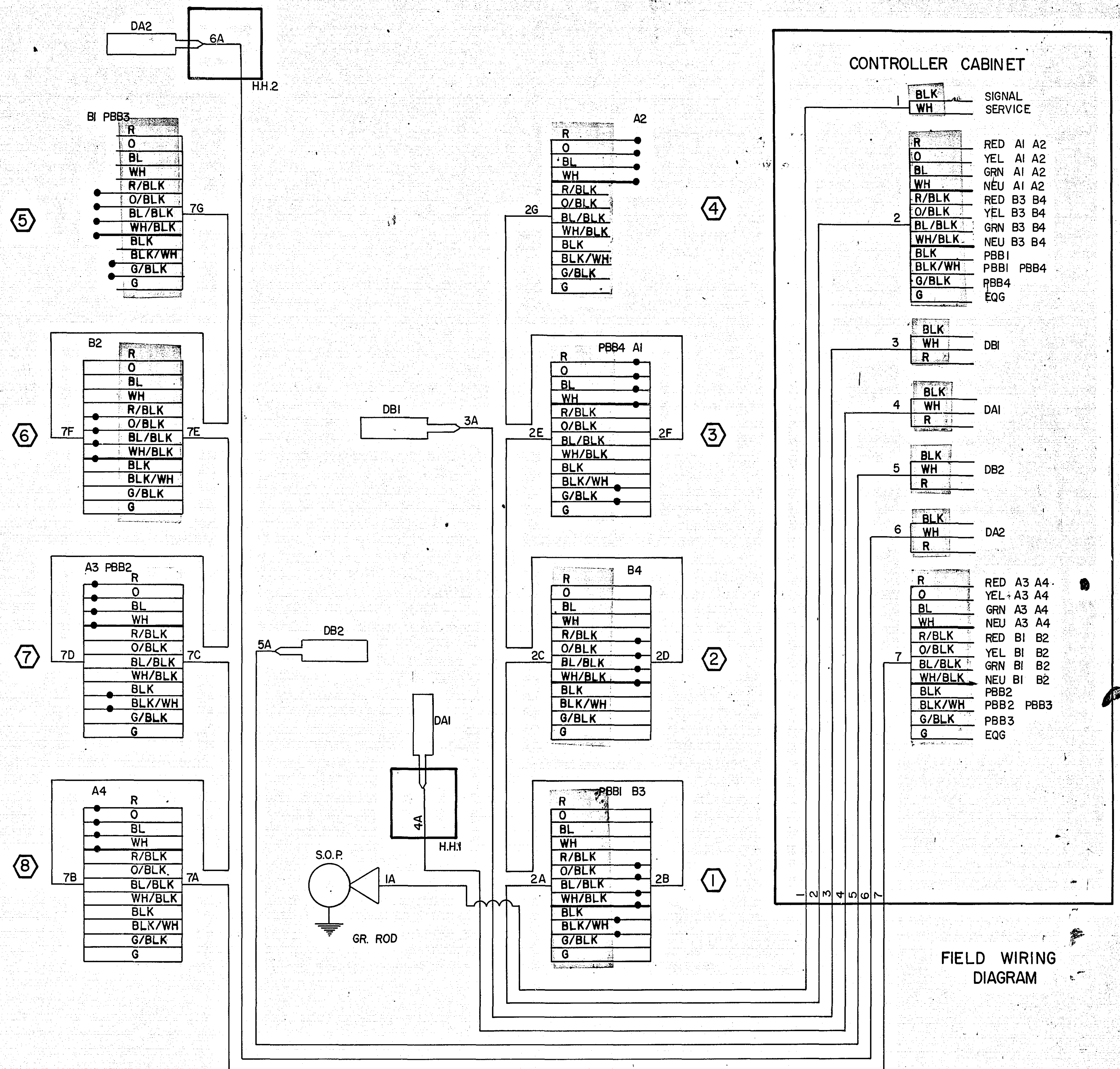
EQUIPMENT & INDICATIONS

RED - RED
YEL - YELLOW
GRN - GREEN
LTA - LEFT TURN ARROW
THA - THRU ARROW
RTA - RIGHT TURN ARROW
TRA - THRU AND RIGHT ARROW
WLK - WALK
NEU - NEUTRAL
DWK - DON'T WALK
SW - SWITCH
SWD - SWITCHED
LUM - LUMINAIRE
PA1(eg) - PEDESTRIAN INDICATION - "A" PHASE
PBB2(eg) - PUSH BUTTON - "B" PHASE
C3(eg) - SIGNAL HEAD - "C" PHASE
DA4(eg) - DETECTOR - "A" PHASE
H.H. - HANDHOLE
GR.R. - GROUND ROD
SERV. - SERVICE

DNL - DOWNLIGHT
P.E.C. - PHOTOELECTRIC CELL
ST. LHT. - STREET LIGHT
CH. - CHECK
S.O.P. - SOURCE OF POWER
EQ.G. - EQUIPMENT GROUND
SPR - SPARE CONDUCTOR

COLOR CODING OF CONDUCTORS

R-RED
O-ORANGE
BL-BLUE
WH-WHITE
R/BLK - RED WITH BLACK TRACER
O/BLK - ORANGE WITH BLACK TRACER
BL/BLK - BLUE WITH BLACK TRACER
WH/BLK - WHITE WITH BLACK TRACER
BLK - BLACK
BLK/WH - BLACK WITH WHITE TRACER
G/BLK - GREEN WITH BLACK TRACER
G - GREEN



STANDARD PLATES *

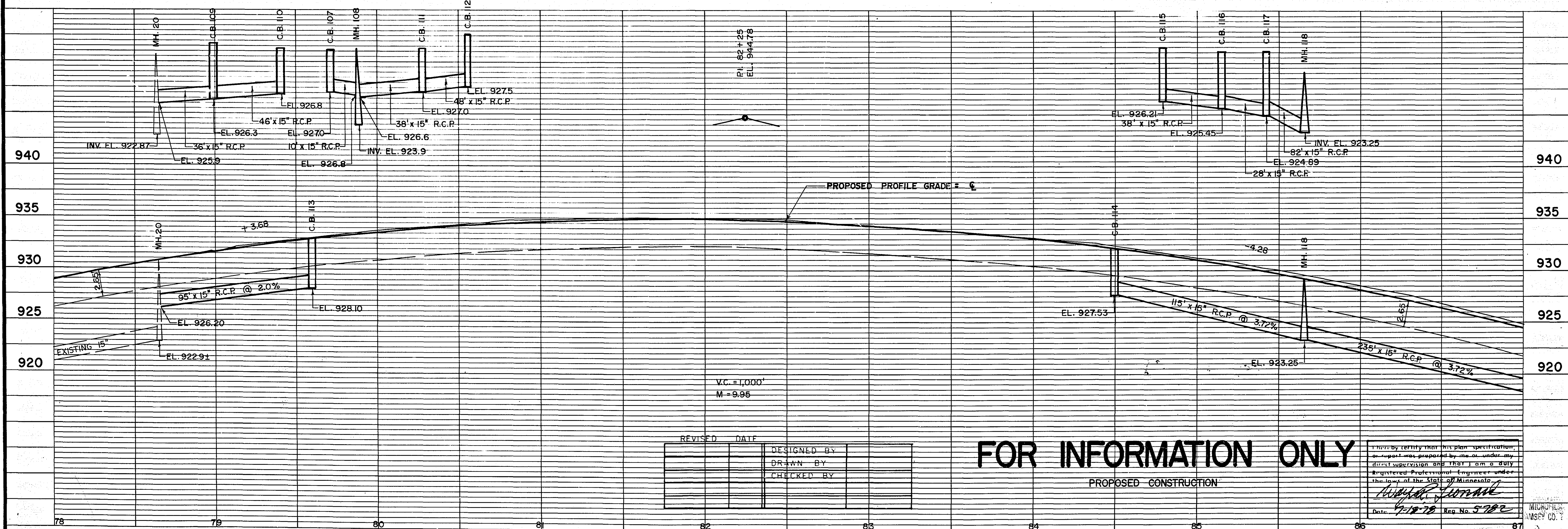
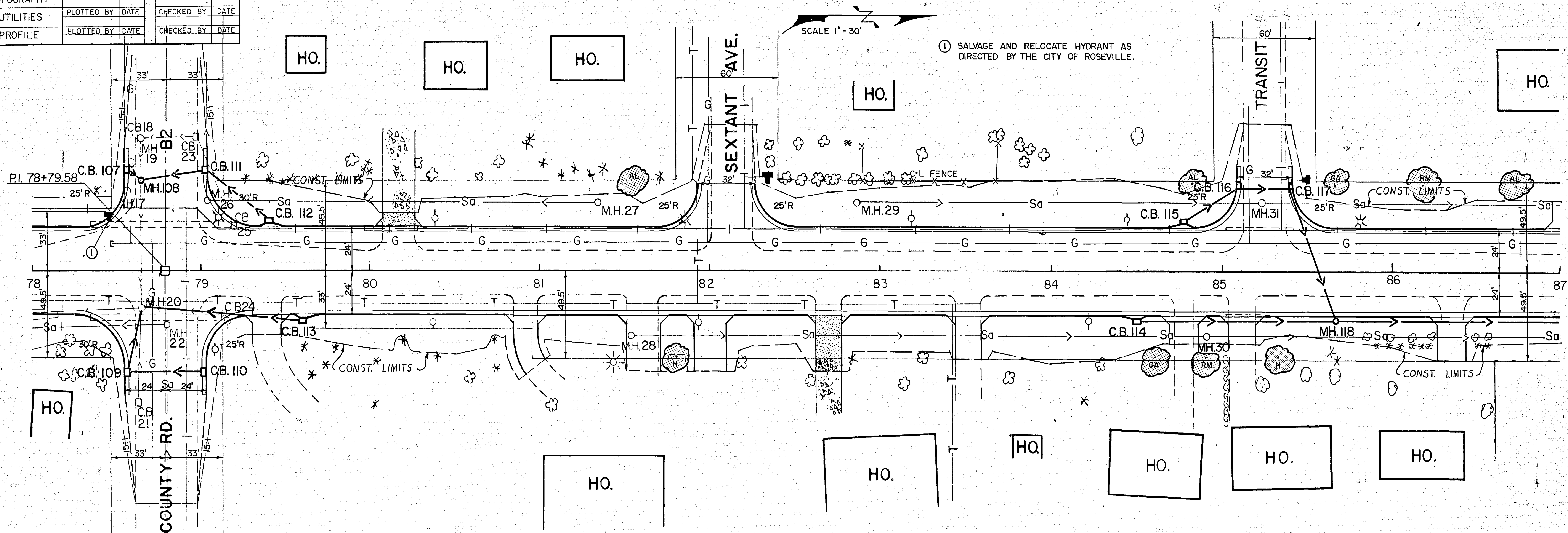
PLATE NO.	DESCRIPTION
8117D	PRECAST CONCRETE HANDHOLE
8118B	SERVICE EQUIPMENT & POLE TRAFFIC CONTROL SIGNALS
8130B	SAW CUT LOOP DETECTORS
8115B	PEDESTRIAN PUSH BUTTON INSTALLATION

* STATE OF MINNESOTA, DEPT. OF HIGHWAYS
STANDARD PLATES MANUAL 5-296

FOR INFORMATION ONLY
INPLACE SIGNAL SYSTEM

MICROFILMED
RAMSEY CO. ENGR.

TOPOGRAPHY	PLOTTED BY	DATE	CHECKED BY	DATE
UTILITIES	PLOTTED BY	DATE	CHECKED BY	DATE
PROFILE	PLOTTED BY	DATE	CHECKED BY	DATE



REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

FOR INFORMATION ONLY

PROPOSED CONSTRUCTION

I hereby certify that this plan, specification, or report 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.
Robert J. Lomax
 Date: 7/12/78 Reg. No. 5782