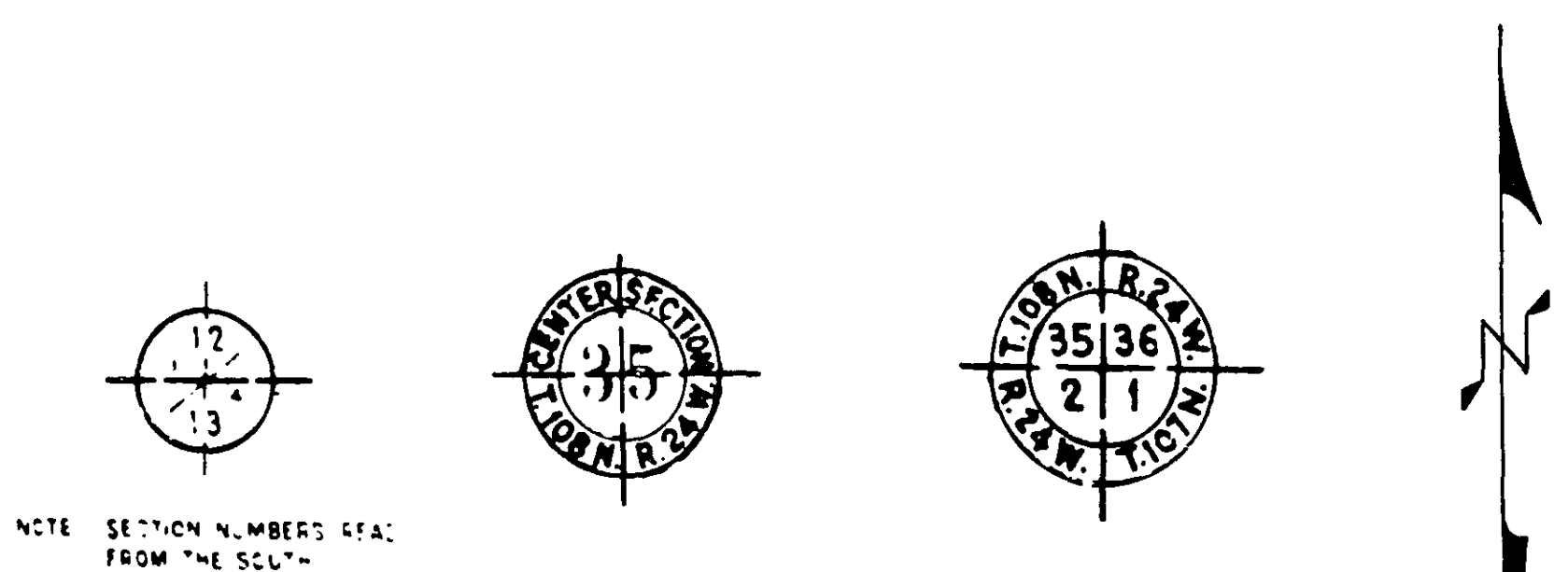


PLANS SYMBOLS

STATE LINE		SPRINGS	
COUNTY LINE		MARSH	
TOWNSHIP OR RANGE LINE		TIMBER	(TIMBER)
SECTION LINE		ORCHARD	
QUARTER LINE		BRUSH	
SIXTEENTH LINE		NURSERY	
RIGHT OF WAY LINE		CATCH BASIN	C.B.
PRESENT RIGHT OF WAY LINE		FIRE HYDRANT	
CONTROL OF ACCESS LINE		CATTLE GUARD	
PROPERTY LINE (Except Land Lines)		OVERPASS (Highway Over)	
VACATED PLATTED PROPERTY		UNDERPASS (Highway Under)	
CORPORATE OR CITY LIMITS		BRIDGE	
TRUNK HIGHWAY CENTER LINE		BUILDING (One Story Frame)	
RETAINING WALL		F FRAME C CONCRETE	
RAILROAD		S STONE T TILE	
RAILROAD RIGHT OF WAY LINE		B BRICK ST STUCCO	
RIVER OR CREEK		IRON PIPE OR ROD	
DRY RUN		MONUMENT (STONE, CONCRETE, OR METAL)	
DRAINAGE DITCH		WOODEN HUB	
DRAIN TILE			
CULVERT			
DROP INLET			
GUARD RAIL			
BARBED WIRE FENCE			
WOVEN WIRE FENCE			
CHAIN LINK FENCE			
RAILROAD SNOW FENCE			
STONE WALL OR FENCE			
WEDGE			
RAILROAD CROSSING SIGN			
RAILROAD CROSSING BELL			
ELECTRIC WARNING SIGN			
CROSSING GATE			
MEANDER CORNER			

UTILITIES SYMBOLS

POWER POLE LINE		CONDUIT	
TELEPHONE OR TELEGRAPH POLE LINE		TELEPHONE CABLE IN CONDUIT	
JOINT TELEPHONE AND POWER ON POWER POLES		ELECTRIC CABLE IN CONDUIT	
ON TELEPHONE POLES		TELEPHONE MANHOLE	
ANCHOR		ELECTRIC MANHOLE	
STEEL TOWER		BURIED TELEPHONE CABLE	T-BUR
STREET LIGHT		BURIED ELECTRIC CABLE	P-BUR
PEDESTAL (TELEPHONE CABLE TERMINAL)		AERIAL TELEPHONE CABLE	T-AE
GAS MAIN		SEWER, (SANITARY OR STORM)	
WATER MAIN		SEWER MANHOLE	



PIT DATA

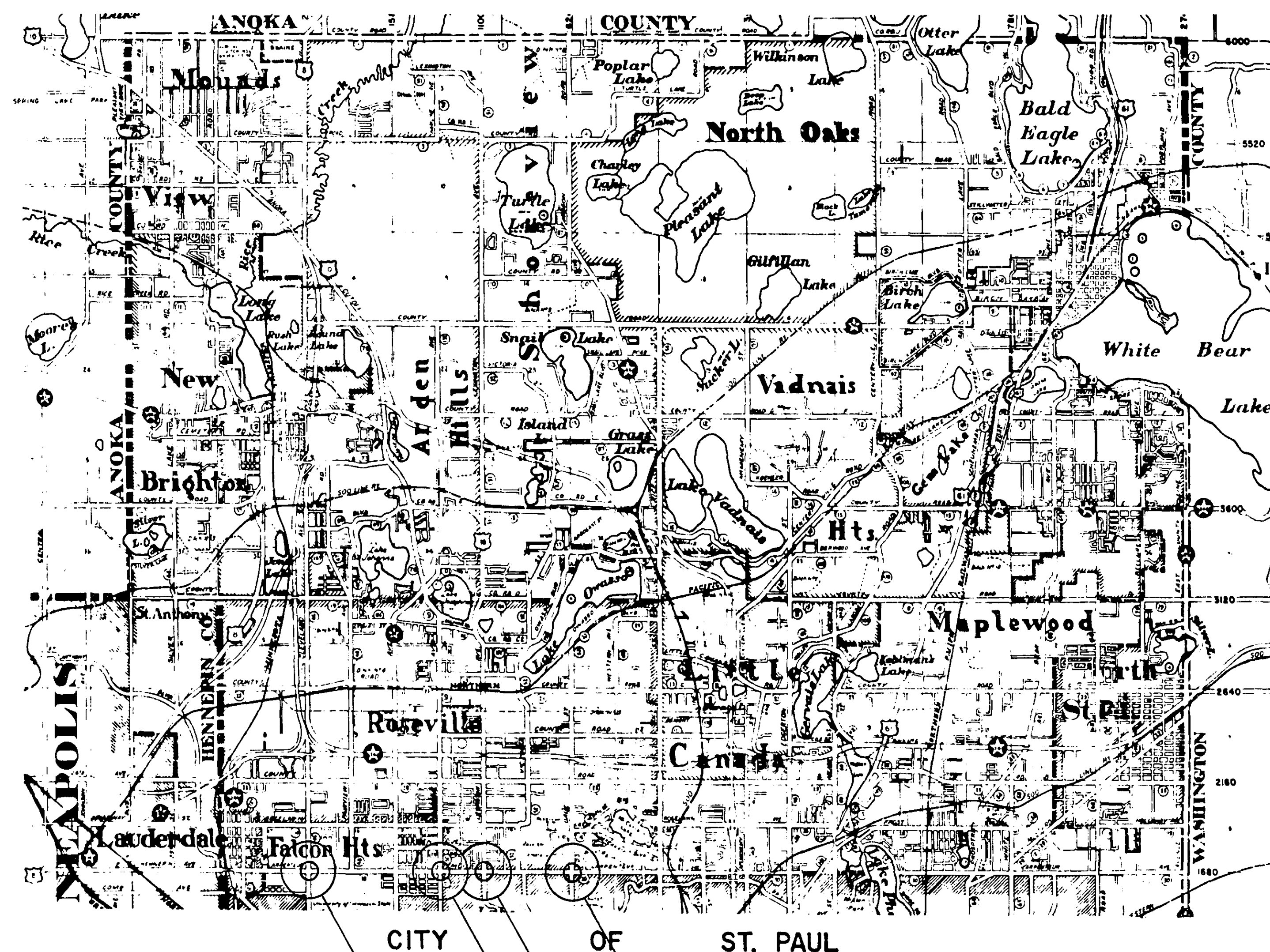
PIT NO.	Located in	Dead Haul
PIT NO.	Located in	Dead Haul

THE "MINNESOTA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1972 SHALL GOVERN.

OFFICE OF COUNTY ENGINEER RAMSEY COUNTY

PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTIONS OF

- LARPENTEUR AVE. & CLEVELAND AVE. (B)
 LARPENTEUR AVE. & HAMLINE AVE. (C)
 LARPENTEUR AVE. & LEXINGTON AVE. (D)
 LARPENTEUR AVE. & DALE ST. (E)



CITY OF ST. PAUL

- INTERSECTION (E)
 INTERSECTION (D)
 INTERSECTION (C)
 INTERSECTION (B)

INDEX

SHEET NO. DESCRIPTION

- | | | |
|-----|-------------------------|------------------------|
| 1 | TITLE SHEET | |
| 2-5 | DETAIL SHEET | |
| 6 | INTERSECTION (B) LAYOUT | LARPENTEUR & CLEVELAND |
| 7 | FIELD WIRING DIAGRAM | |
| 8 | INTERSECTION (C) LAYOUT | LARPENTEUR & HAMLINE |
| 9 | FIELD WIRING DIAGRAM | |
| 10 | INTERSECTION (D) LAYOUT | LARPENTEUR & LEXINGTON |
| 11 | FIELD WIRING DIAGRAM | |
| 12 | INTERSECTION (E) LAYOUT | LARPENTEUR & DALE |
| 13 | FIELD WIRING DIAGRAM | |

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.

Dean K. Ankla
 Date 5-26-72 Reg. No. 5031

RECOMMENDED FOR APPROVAL *W. V. Chenoweth* DATE 4/26/72
 DIRECTOR OF SAFETY

RECOMMENDED FOR APPROVAL *Dean K. Ankla* DATE 4/26/72
 MAINTENANCE ENGINEER

RECOMMENDED FOR APPROVAL *Chenoweth* DATE 4/26/72
 CONSTRUCTION ENGINEER

RECOMMENDED FOR APPROVAL _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____

APPROVED _____ DATE _____
 COUNTY ENGINEER

DESIGNED BY *Wm V. Chenoweth* DATE 4/26/72
 DIRECTOR OF SAFETY

RECOMMENDED FOR APPROVAL *Dean K. Ankla* DATE 4/3/72
 COUNTY ENGINEER

APPROVED *Chenoweth* DATE 3/31/72
 CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED _____ DATE _____

APPROVED _____ DATE _____

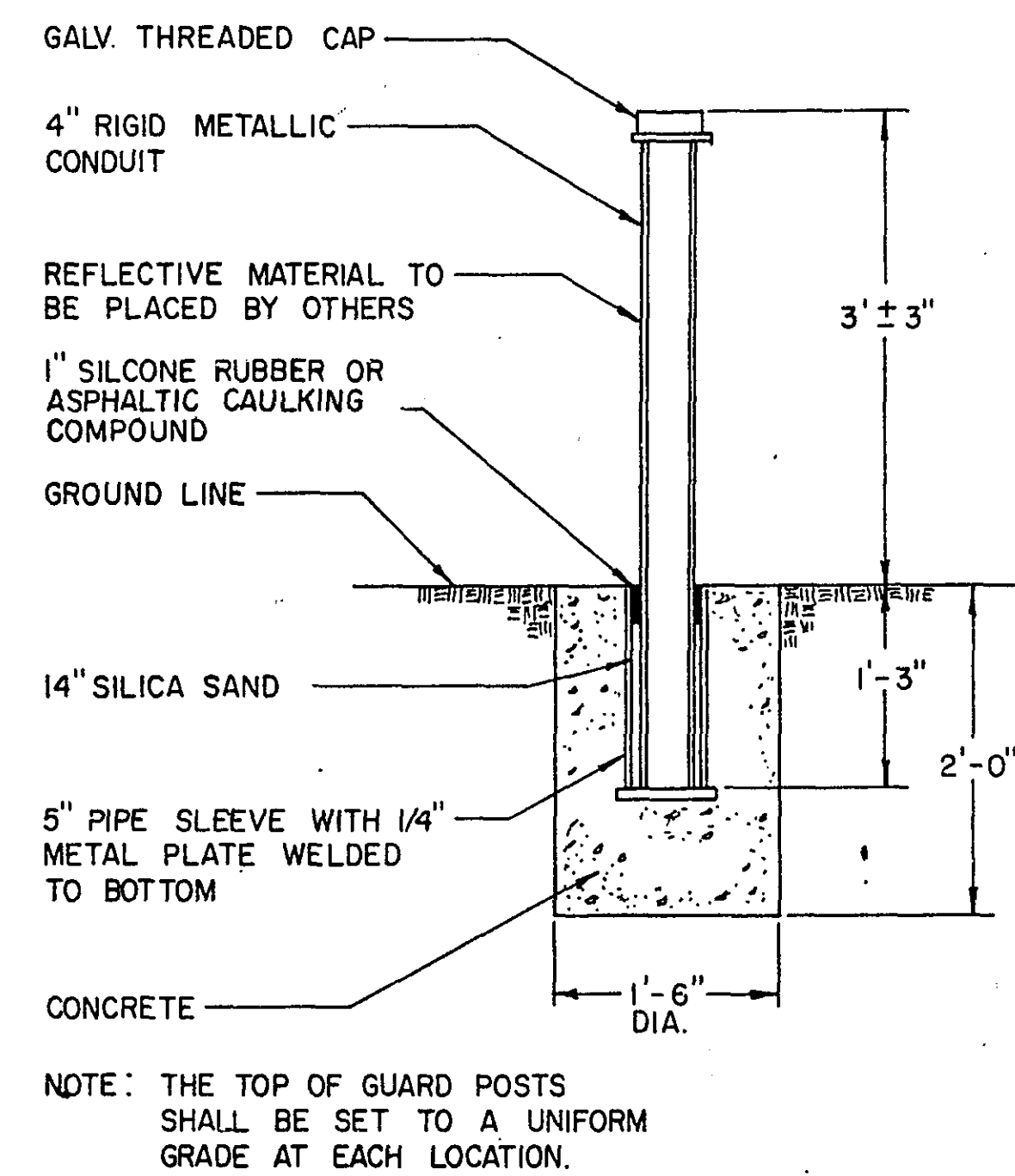
MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL *J. F. Brandy* DATE 6-14-72

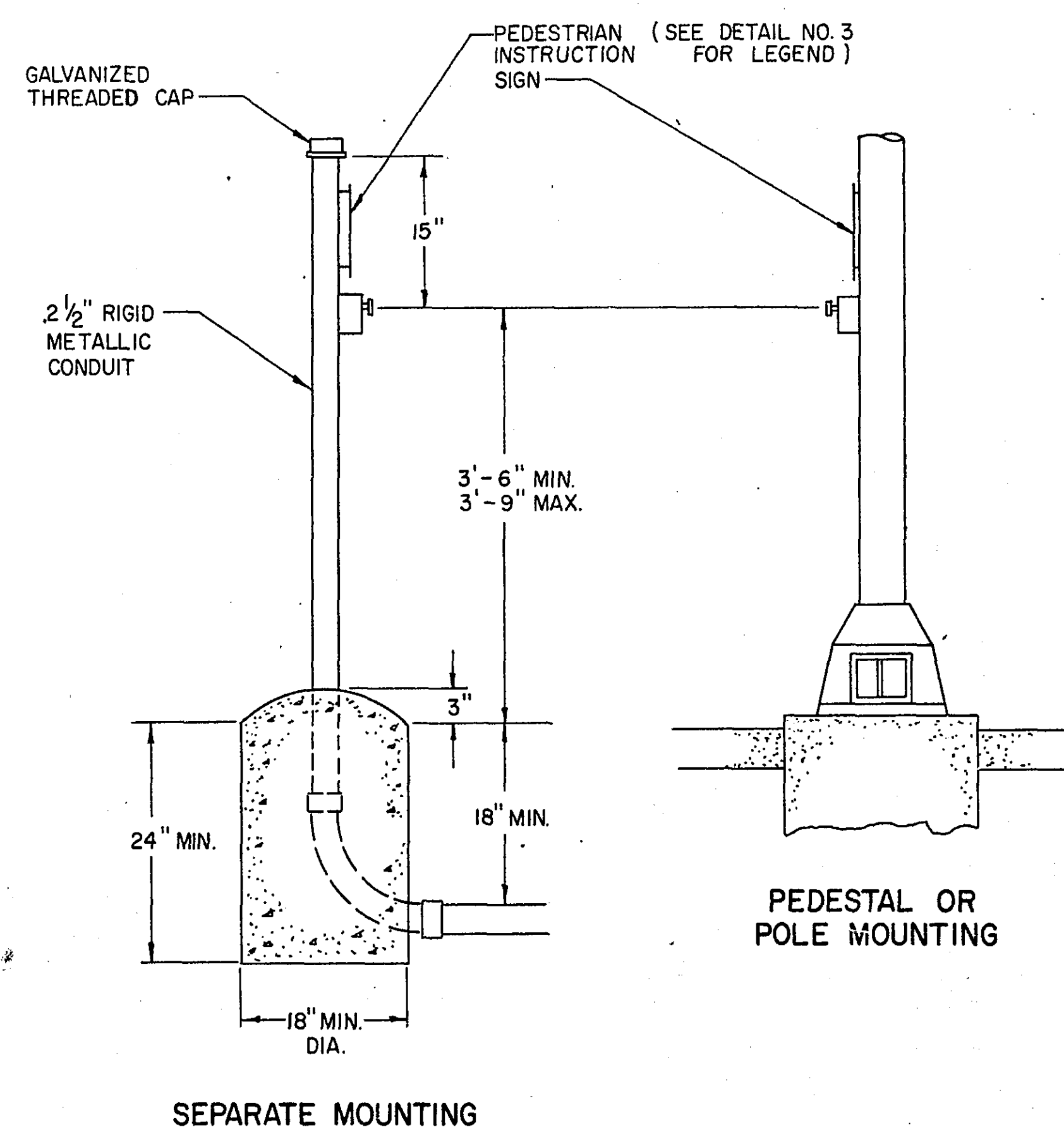
RECOMMENDED FOR APPROVAL *J. F. Brandy* DATE 5/10/72
 DISTRICT STATE HIGHWAY ENGINEER

APPROVAL *Dean K. Ankla* DATE 6/14/72
 STATE HIGHWAY ENGINEER

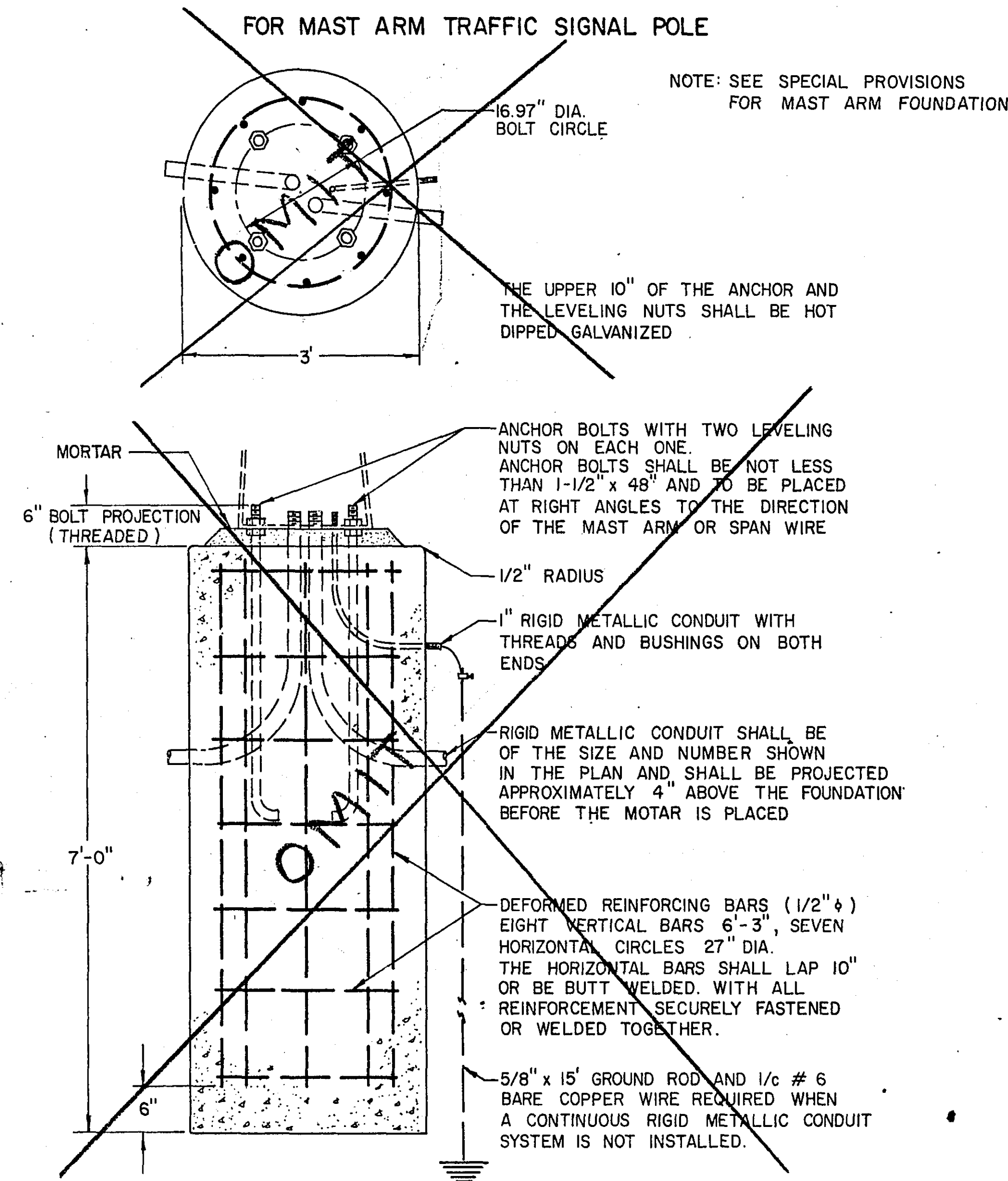
GUARD POST



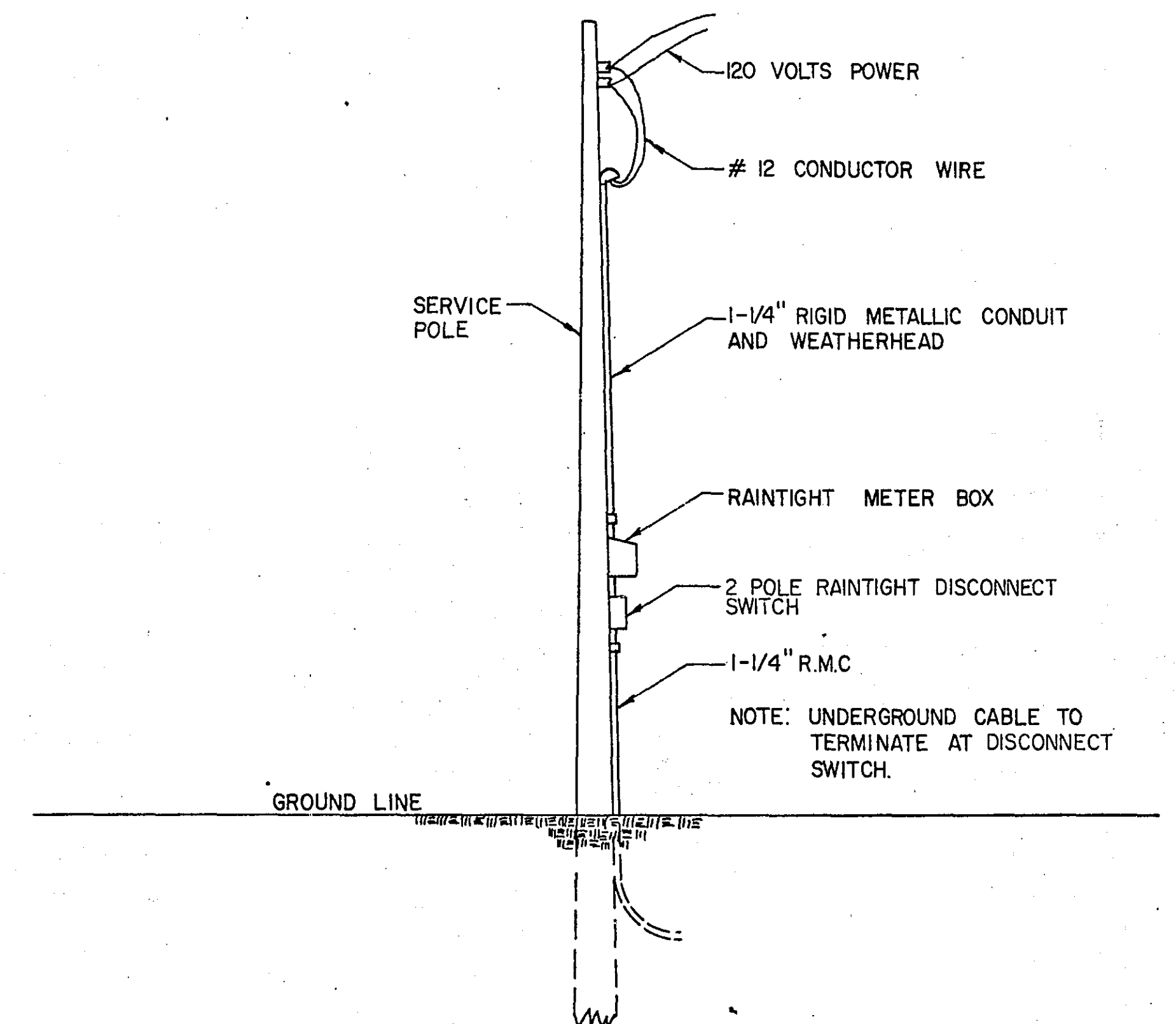
PEDESTRIAN PUSH BUTTON DETAIL NO. 1



CONCRETE FOUNDATION

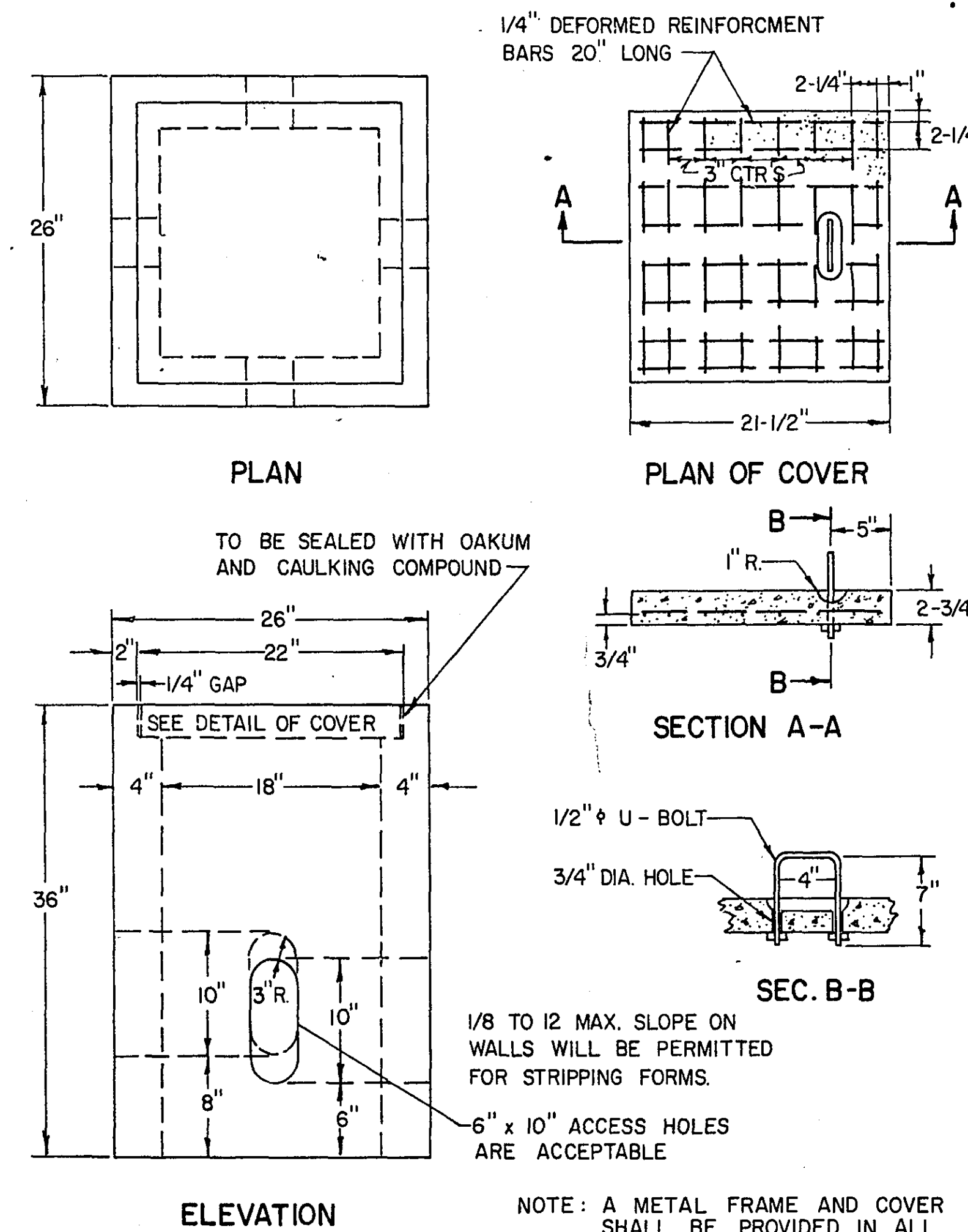
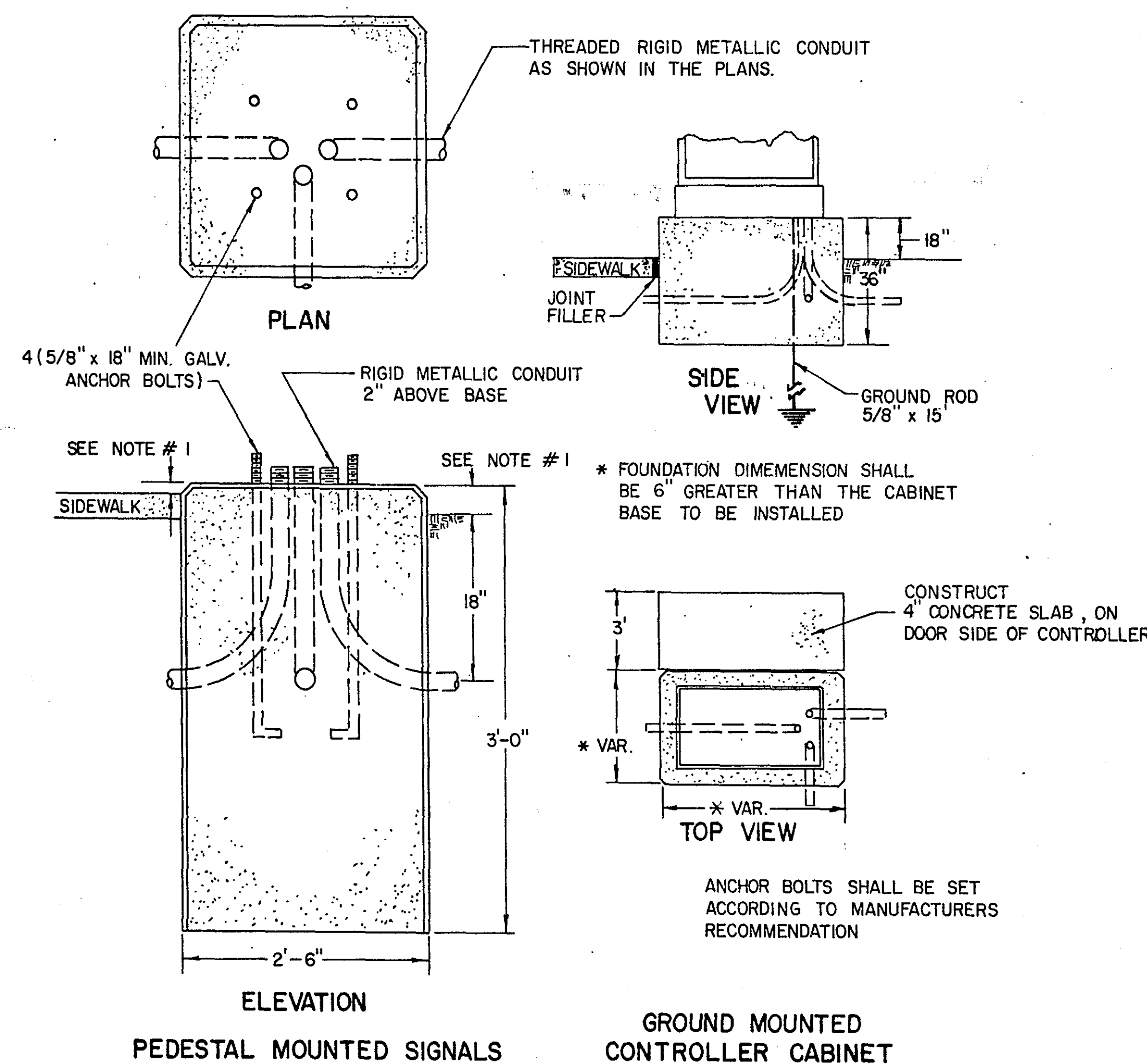


POLE FOR POWER CONNECTION

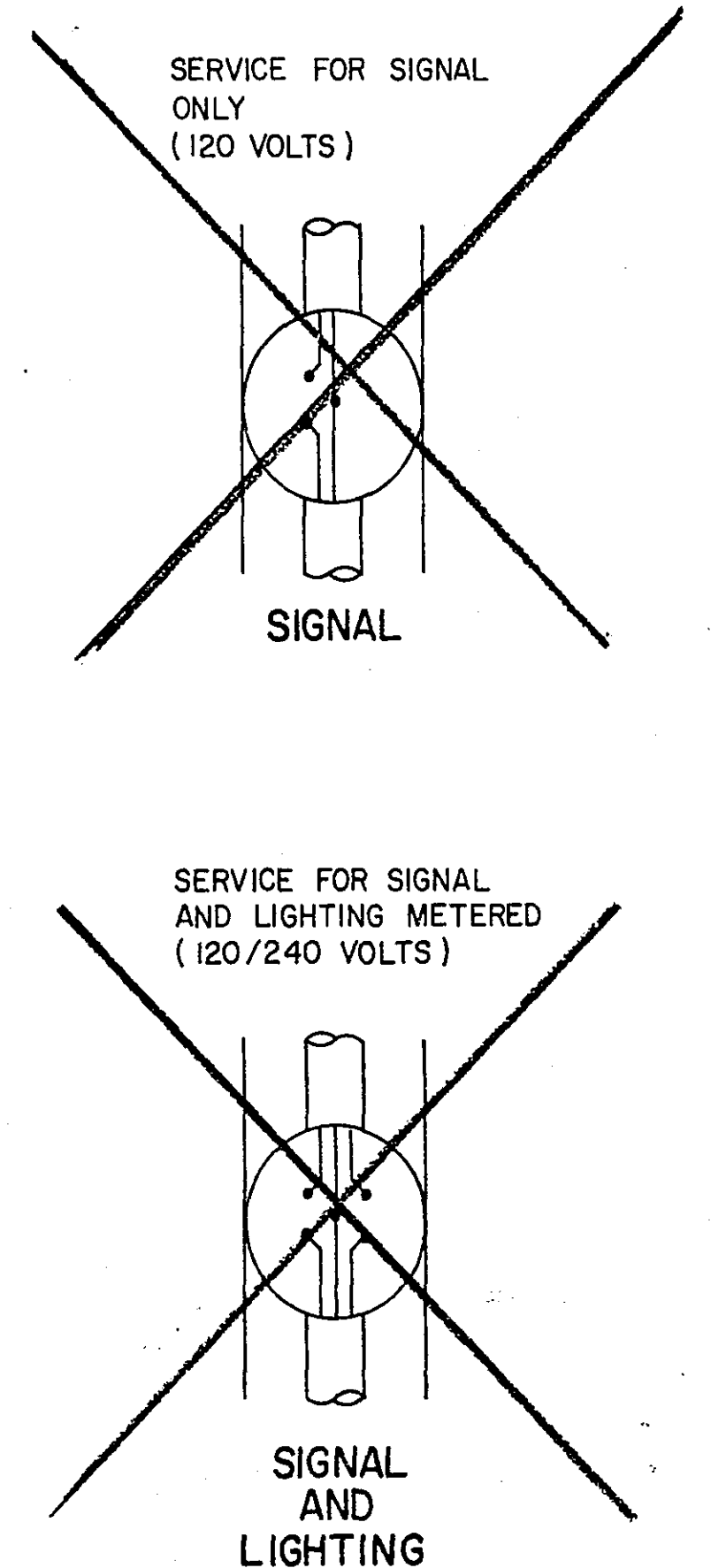
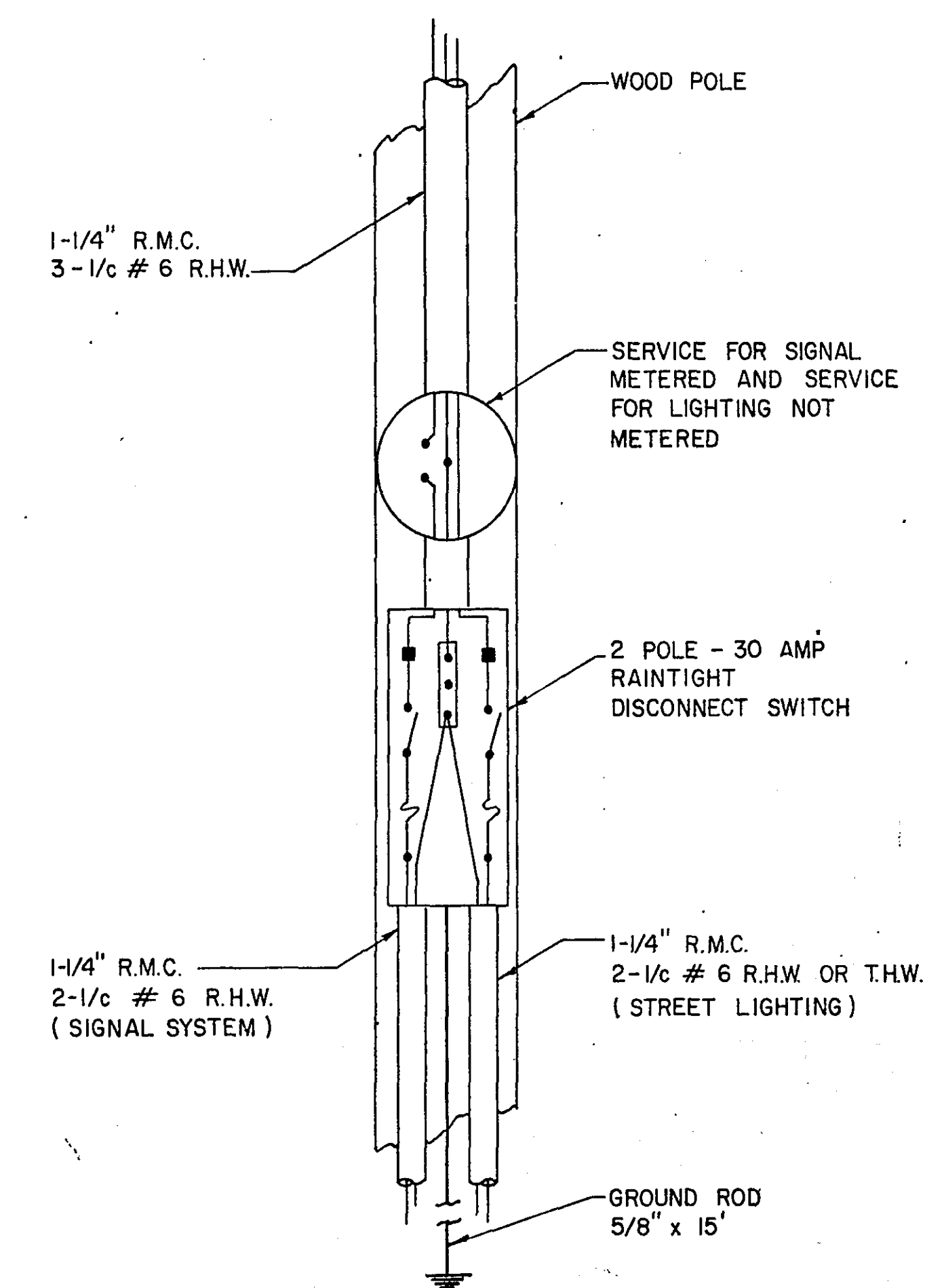


NOTE # 1

DISTANCE FROM GROUND LINE VARIABLE FROM 1/4" IN THE SIDEWALK AREA TO 2" IN THE SHOULDER OR BLVD. AREA.



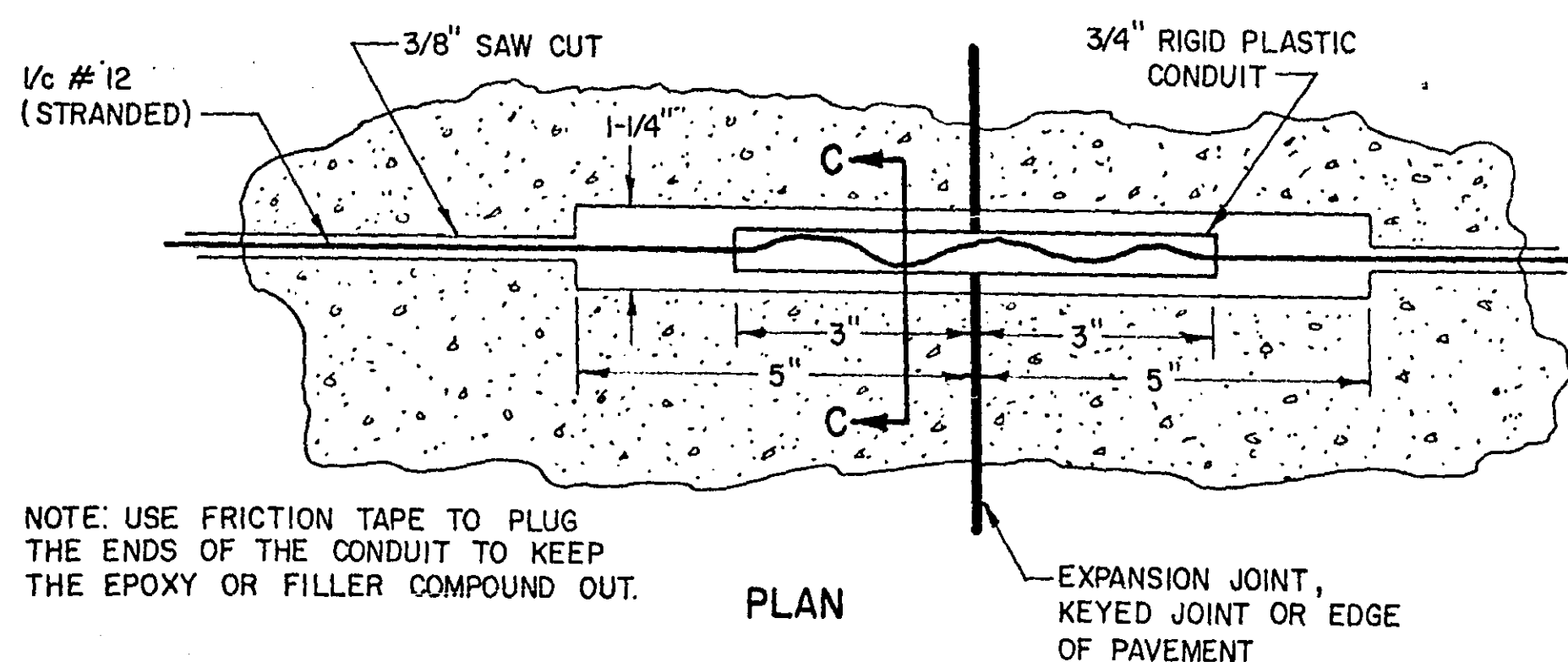
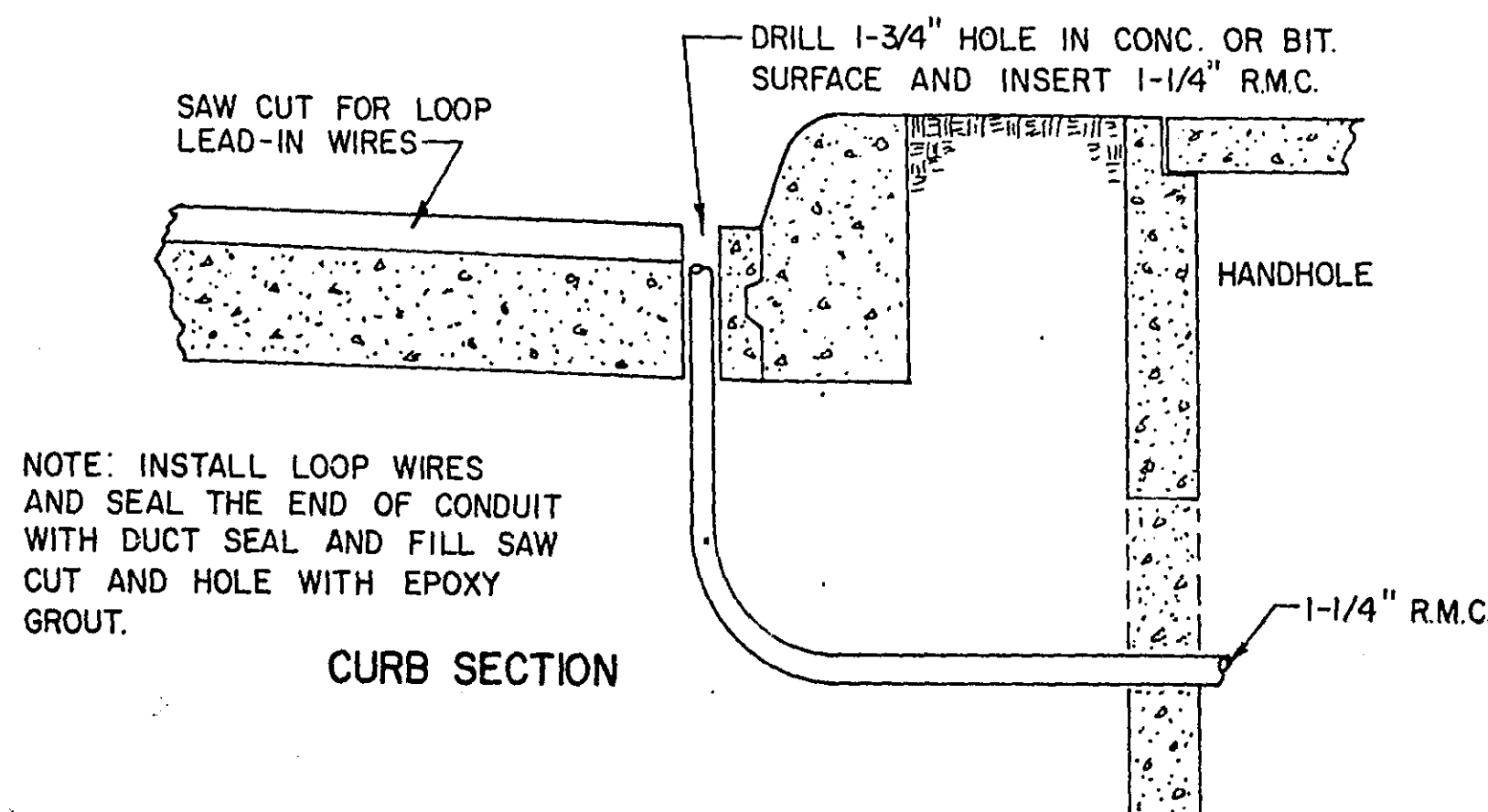
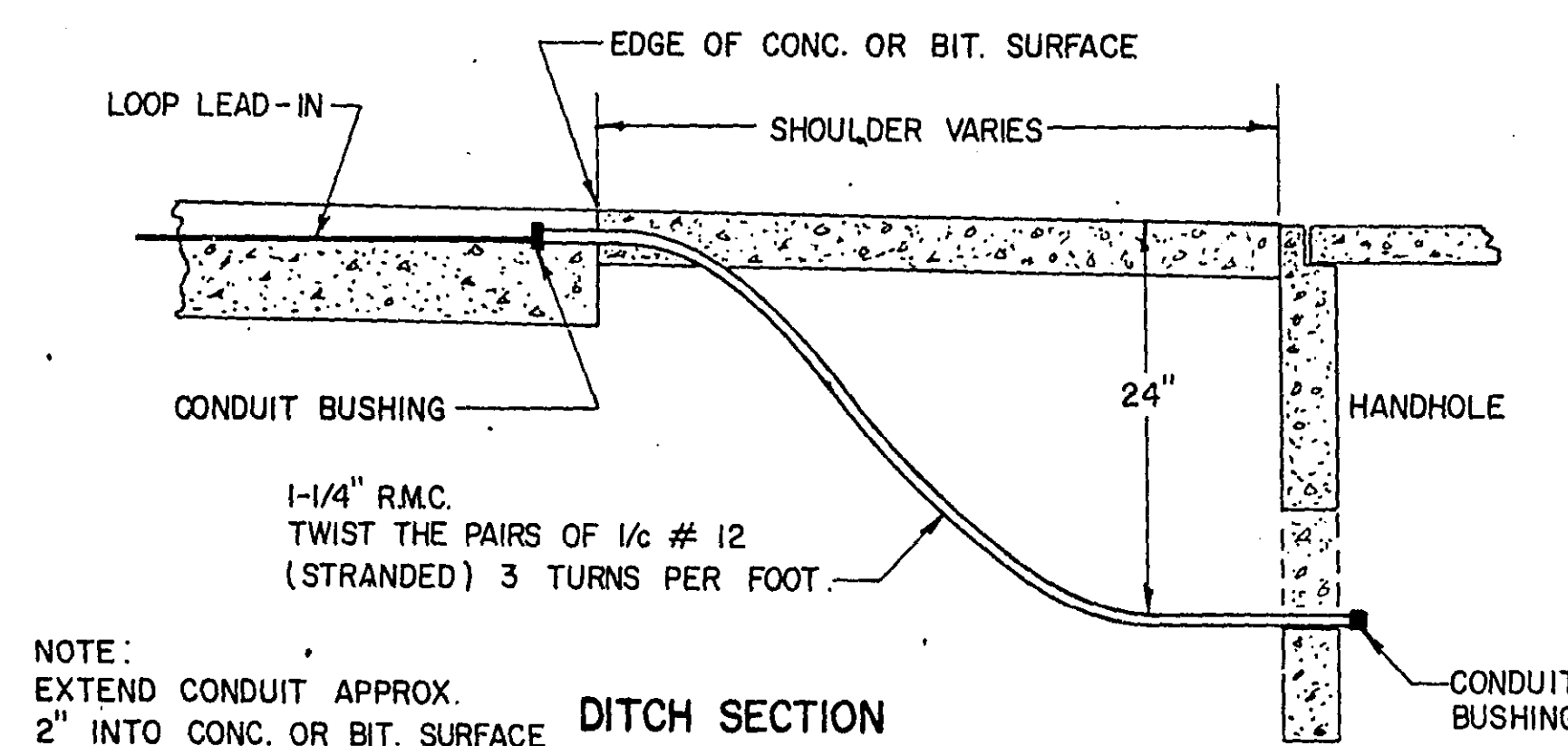
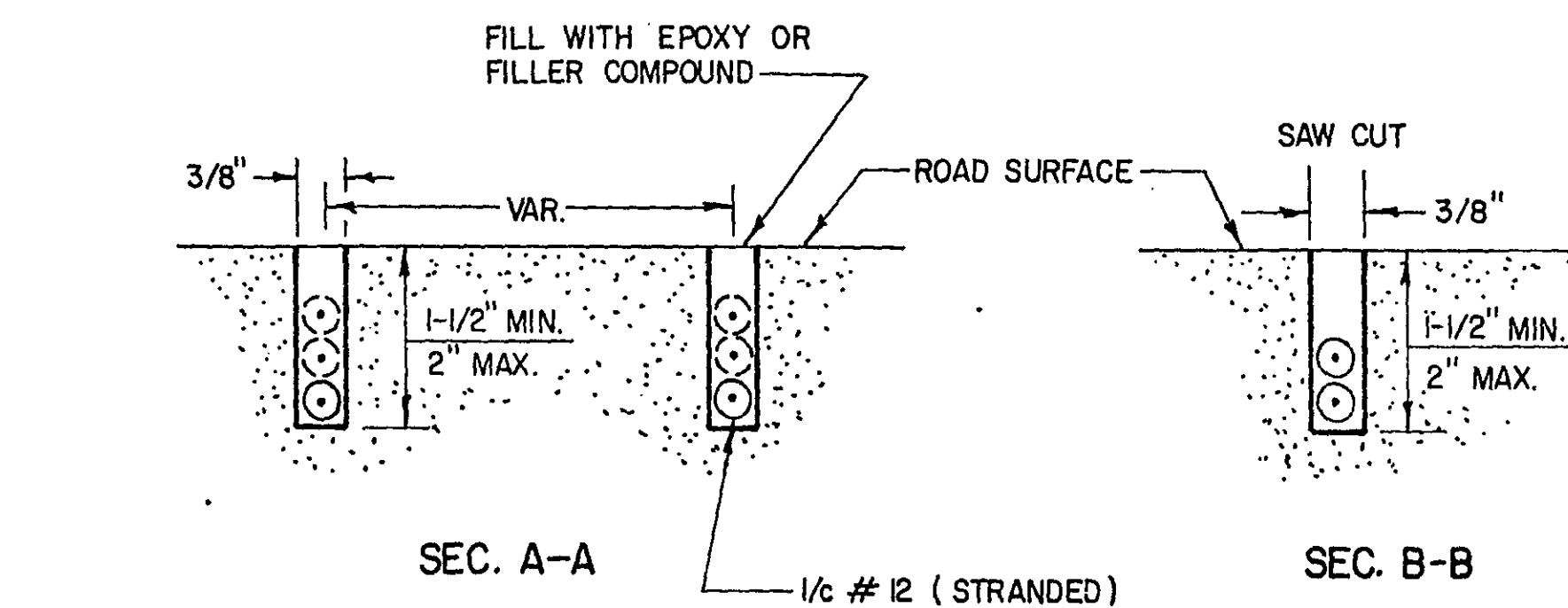
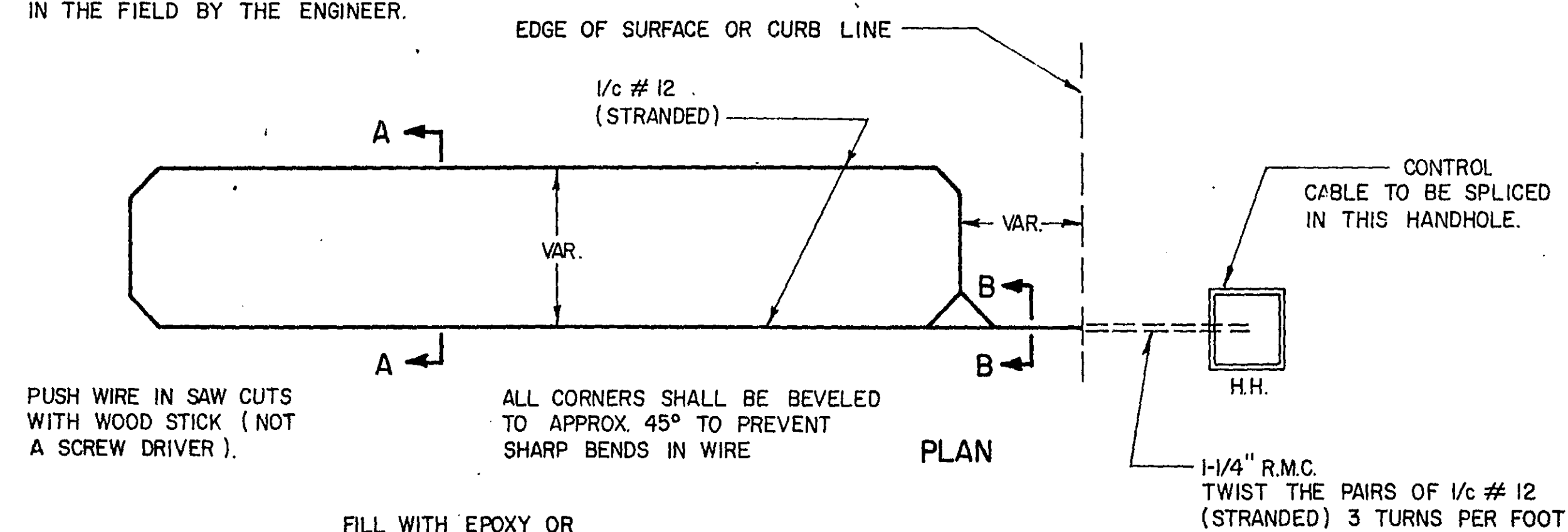
NOTE: A METAL FRAME AND COVER SHALL BE PROVIDED IN ALL SIDE WALK OR CONCRETE AREAS UNLESS OTHERWISE SPECIFIED SPEC. 332 (CLASS 25B) LIGHT DUTY SEE MINN. HWY. DEPT. STD. PL. NO. 8117C



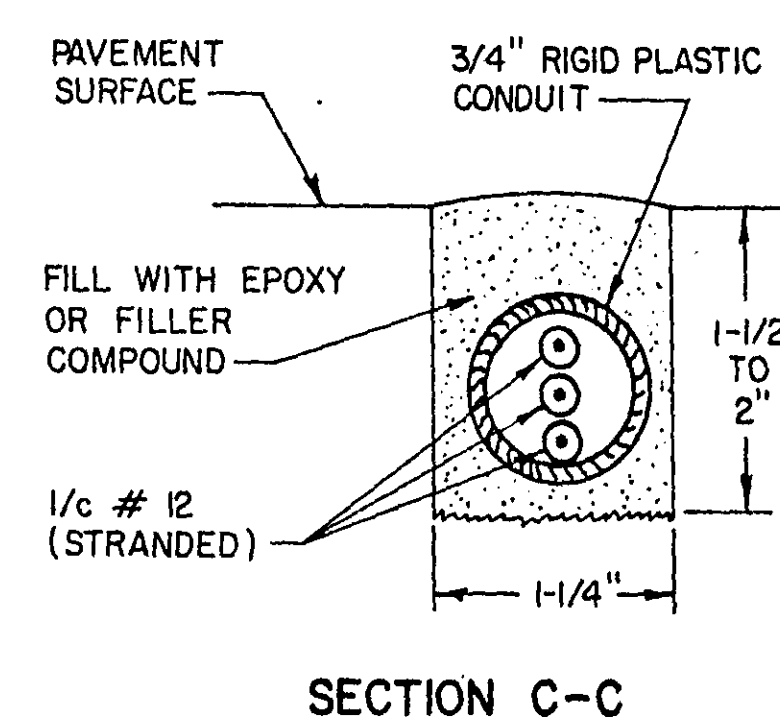
METER AND DISCONNECT SWITCH

LOOP DETECTION INSTALLATION DETAIL NO. 2

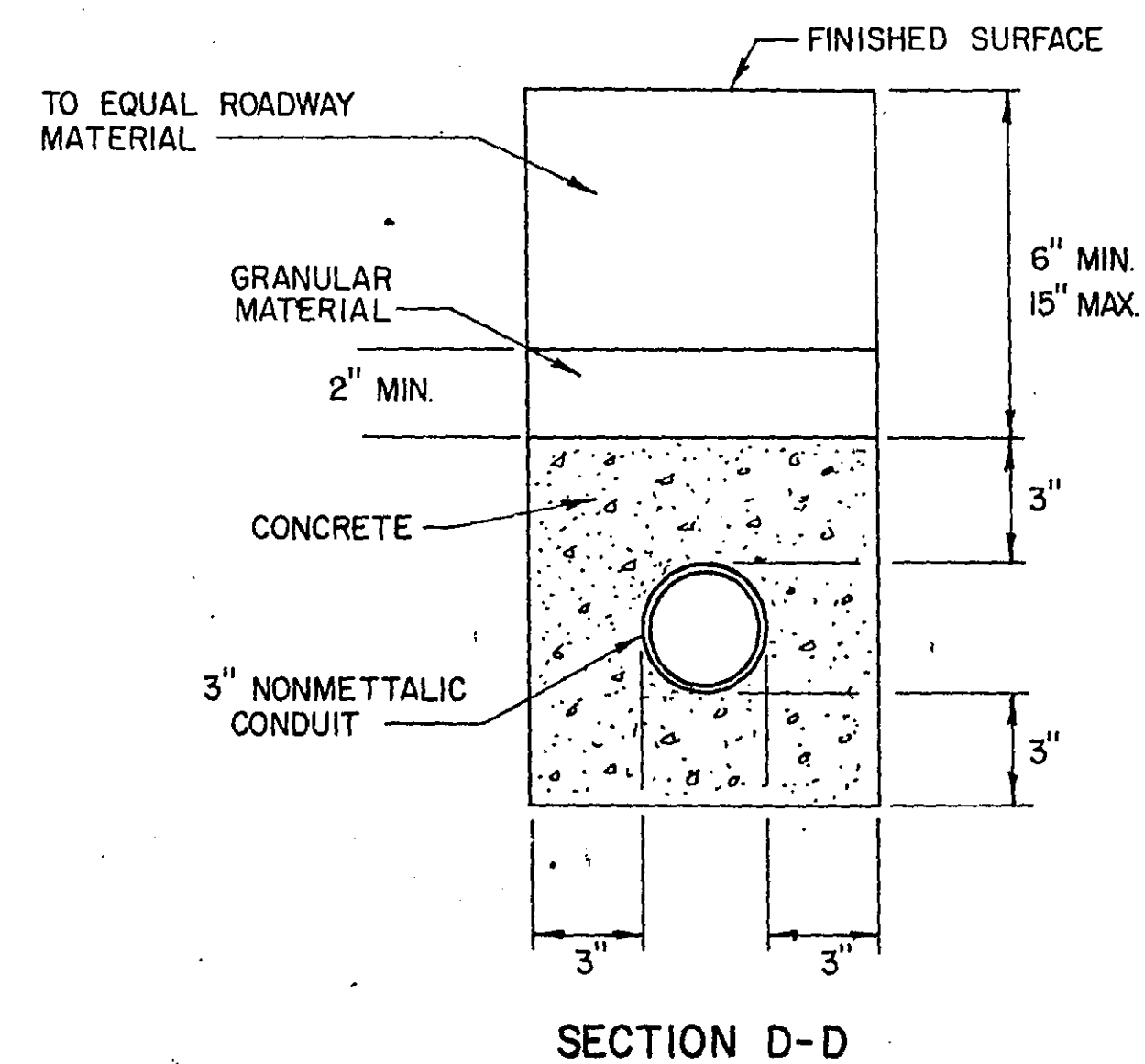
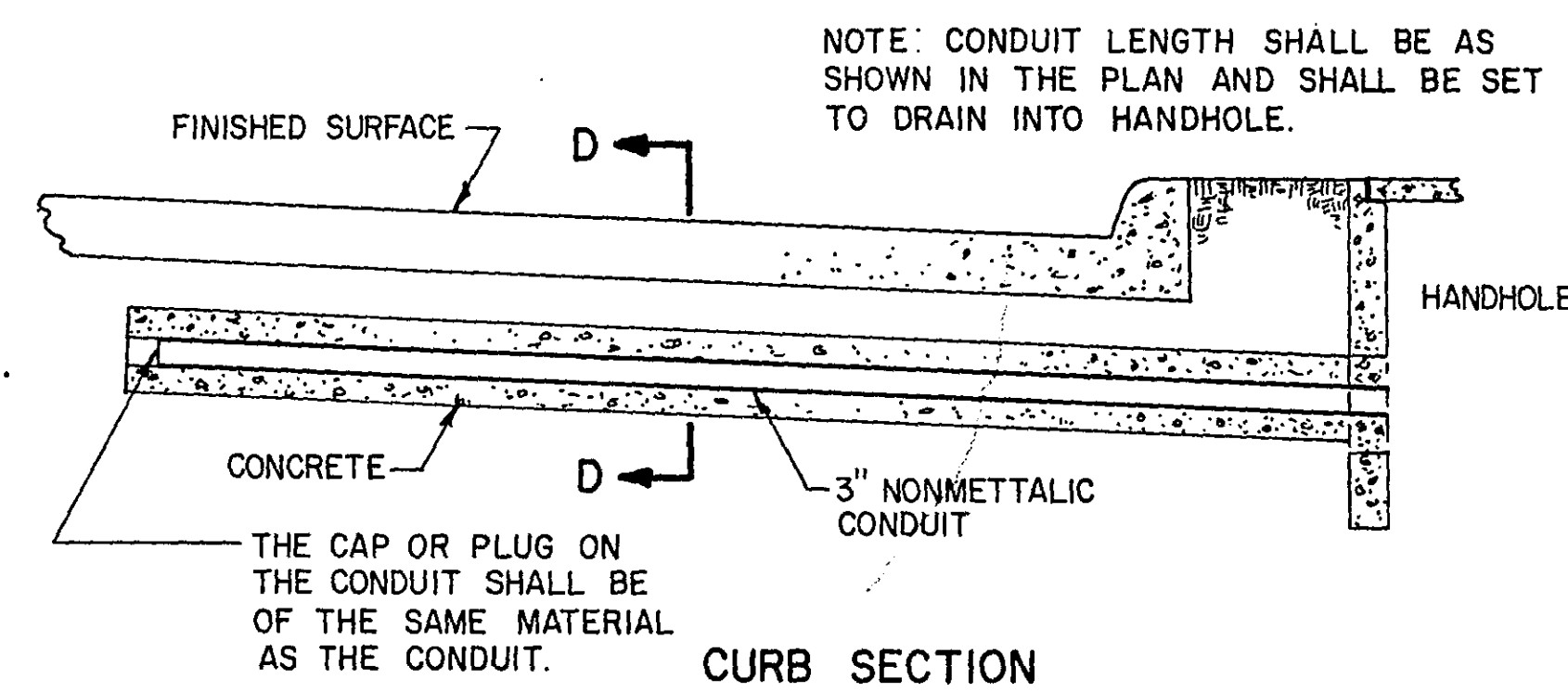
NOTE: NUMBER OF TURNS &
SIZE OF LOOP SHALL BE DETERMINED
IN THE FIELD BY THE ENGINEER.



JOINT SLEEVE INSTALLATION FOR LOOP DETECTORS

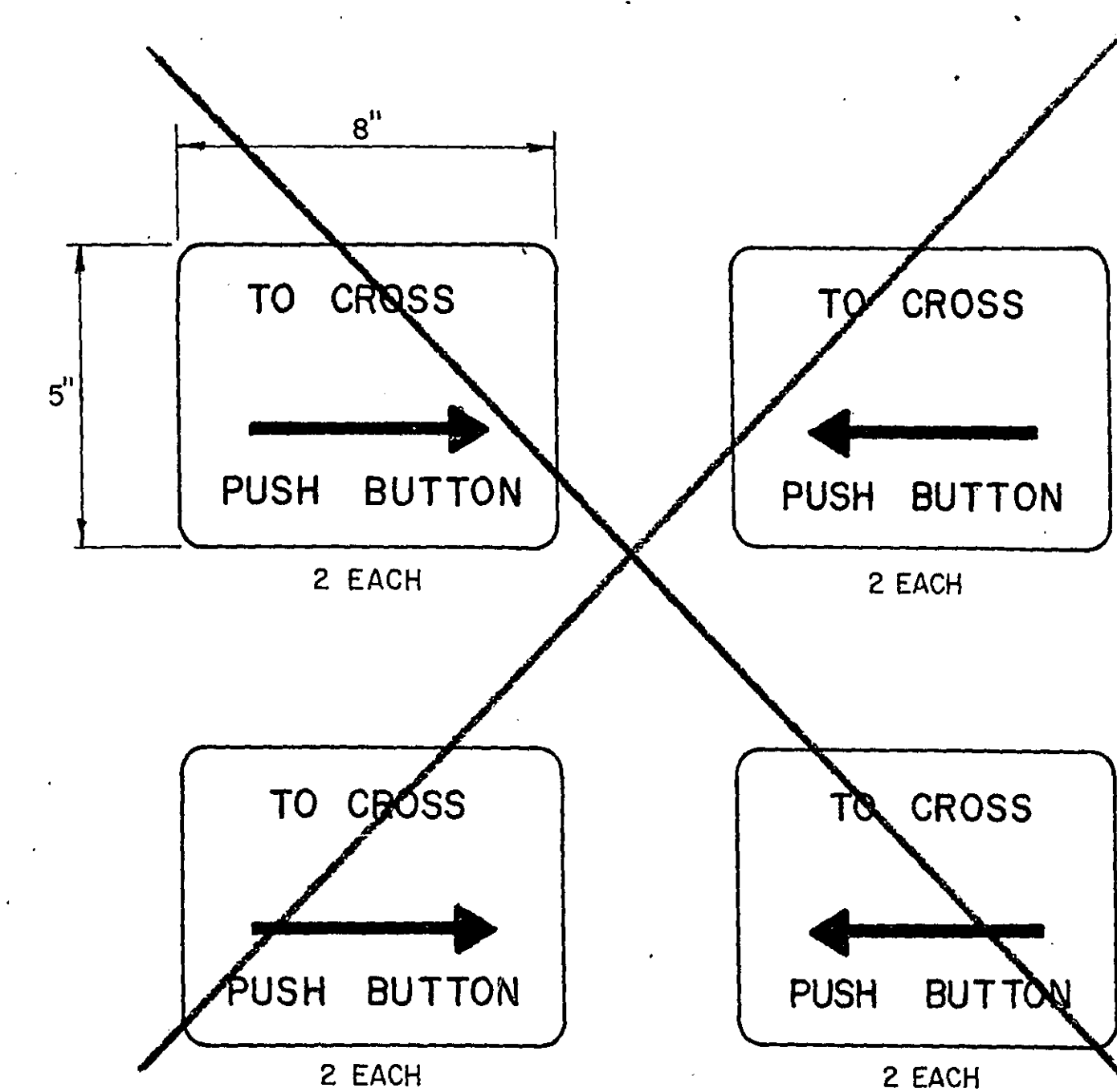


MAGNETIC VEHICLE DETECTOR INSTALLATION DETAIL NO. 4



ITEM NO.	ITEM NAME	UNIT	QUAN.
2565.501	FULL T-ACTUATED TRAFFIC CONTR. SIG. SYS. (B)	SIG. SYS.	1
2565.501	FULL T-ACTUATED TRAFFIC CONTR. SIG. SYS. (C)	SIG. SYS.	1
2565.501	FULL T-ACTUATED TRAFFIC CONTR. SIG. SYS. (D)	SIG. SYS.	1
2565.501	FULL T-ACTUATED TRAFFIC CONTR. SIG. SYS. (E)	SIG. SYS.	1
565.601	REMOVE TRAFFIC SIGNAL SYSTEM	SYSTEM	4

PEDESTRIAN INSTRUCTION SIGNS DETAIL NO. 3



ABBREVIATIONS

EQUIPMENT & INDICATIONS

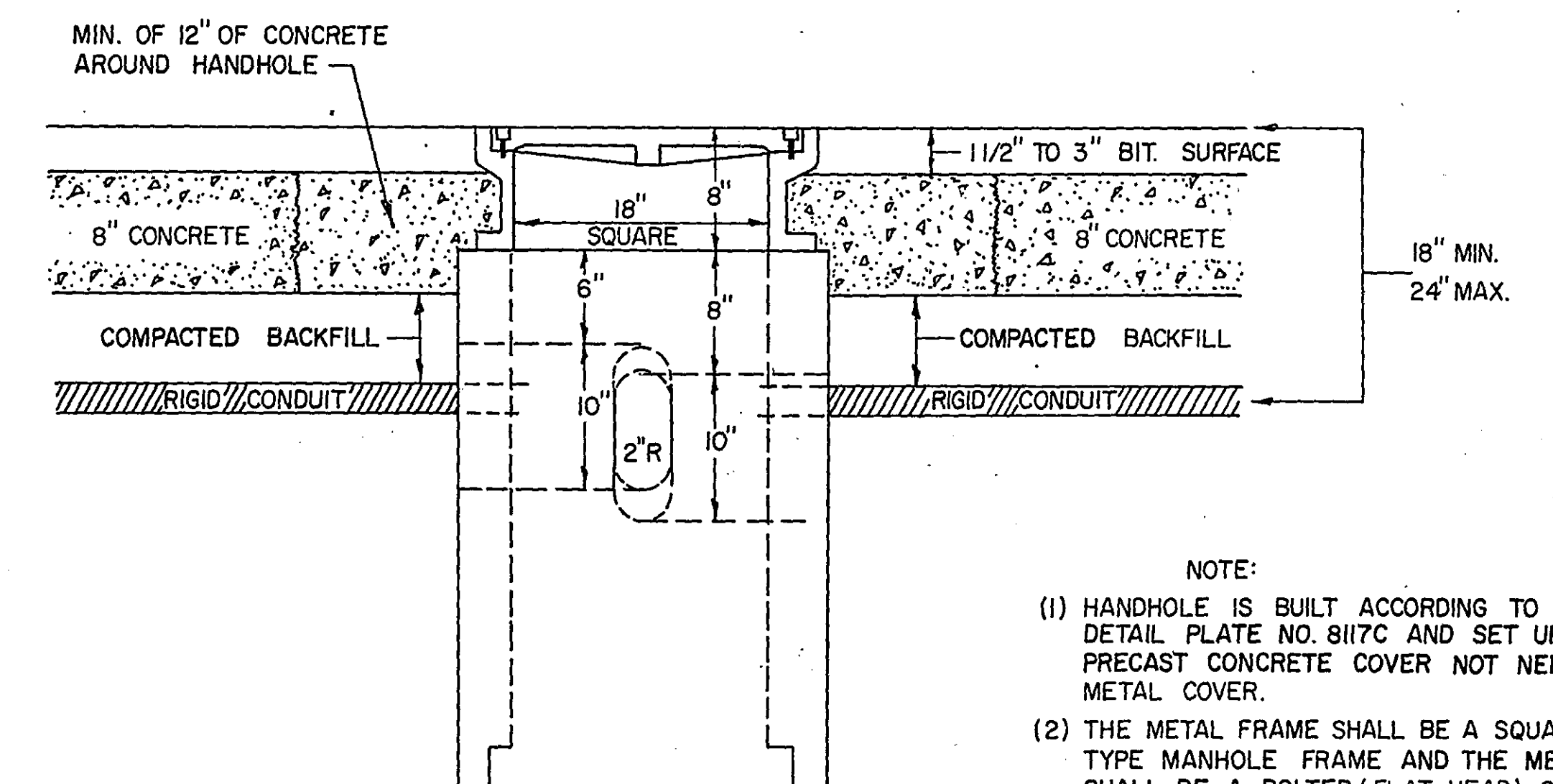
RED - RED
YEL - YELLOW
GRN - GREEN
LTA - LEFT TURN ARROW
THA - THRU ARROW
RTA - RIGHT TURN ARROW
TRA - THRU AND RIGHT ARROW
WLK - WALK
NEU - NEUTRAL
DWK - DON'T WALK
SW - SWITCH
SWD - SWITCHED
LUM - LUMINAIRE
PA1(eg) - PEDESTRIAN INDICATION - "A" PHASE
PBB2(eg) - PUSH BUTTON - "B" PHASE
C3(eg) - SIGNAL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

DNL - DOWNLIGHT
PEC - 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

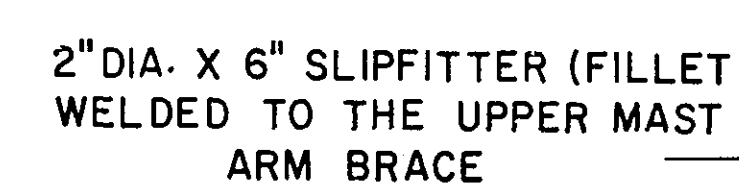
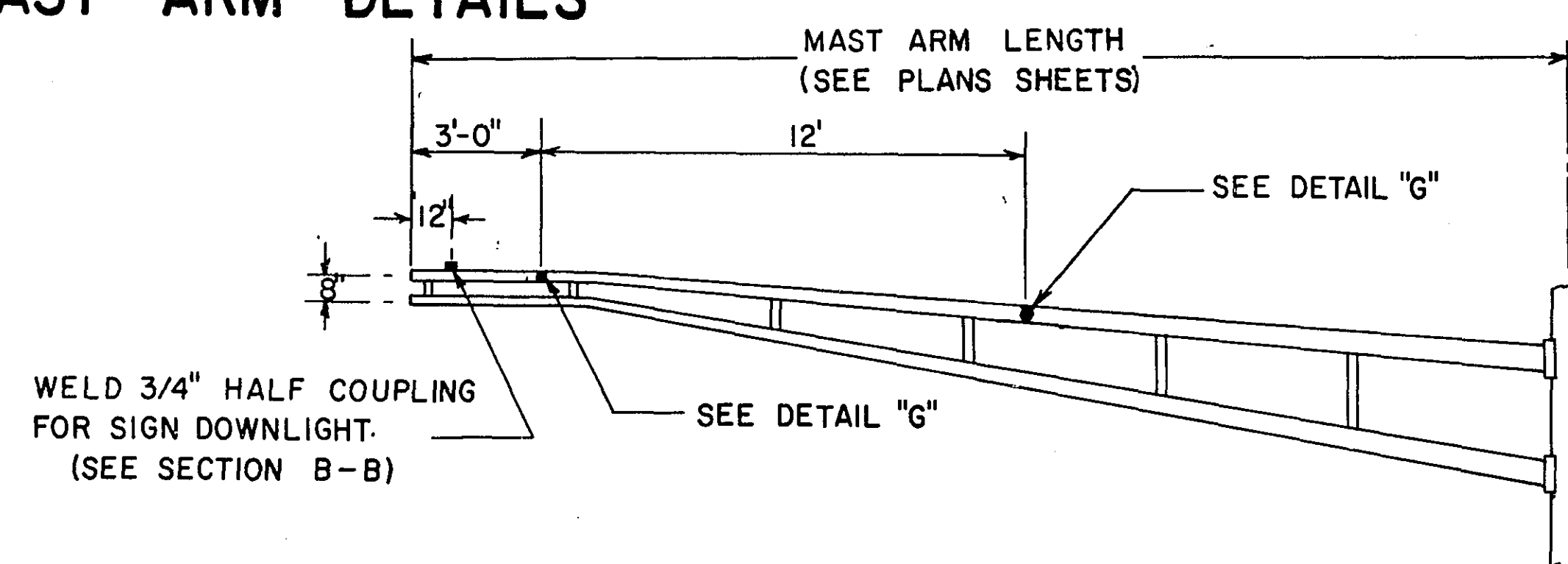
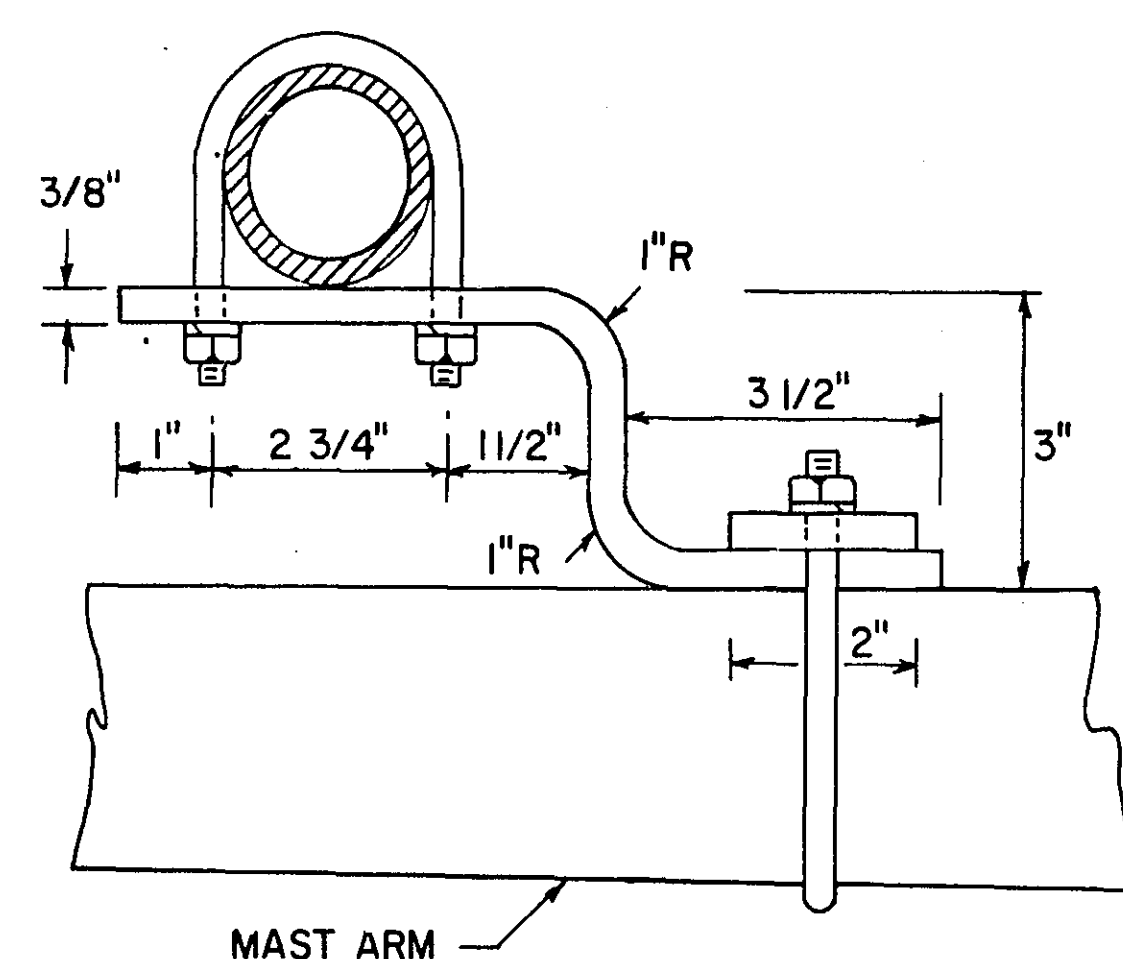
R - RED
O - ORANGE
BL - BLUE
WH - WHITE
R/BLK - RED WITH BLACK TRACER
O/BLK - ORANGE WITH BLACK TRACER
BL/BLK - BLUE WITH BLACK TRACER
WH/BLK - WHITE WITH BLACK TRACER
BLK - BLACK
BLK/WH - BLACK WITH WHITE TRACER
G/BLK - GREEN WITH BLACK TRACER
G - GREEN

METAL COVER DETAIL

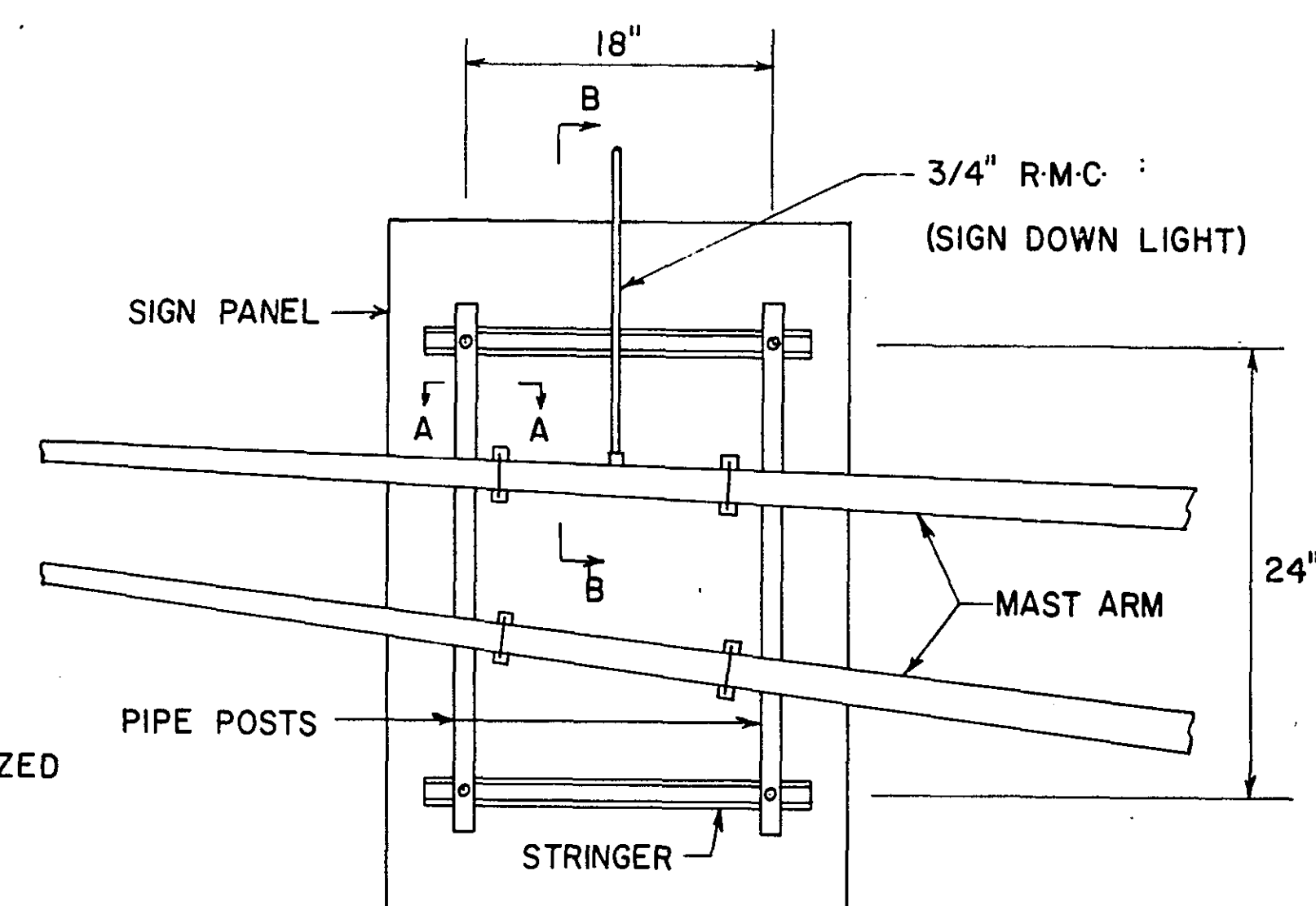
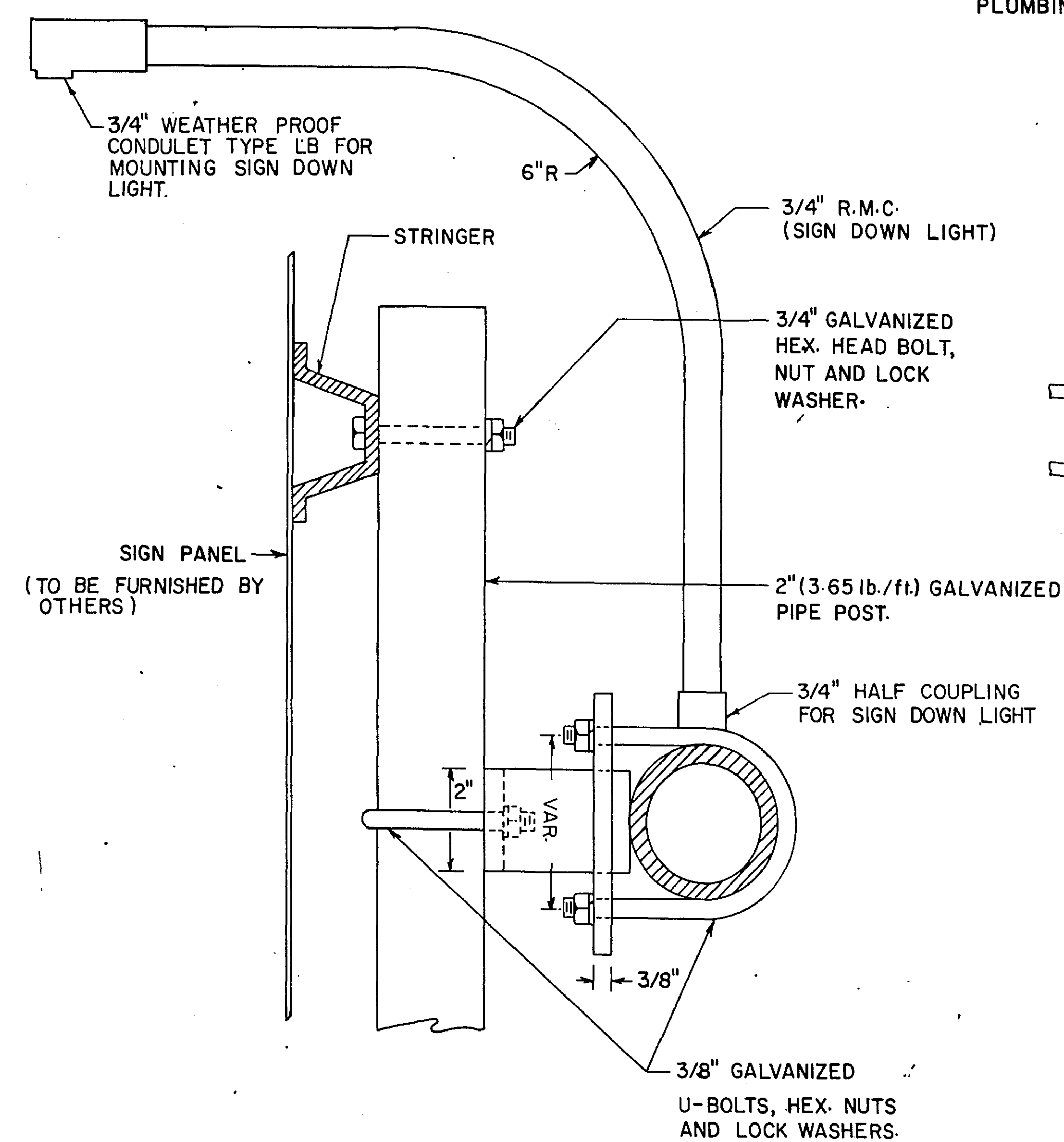


NOTE:
(1) HANDHOLE IS BUILT ACCORDING TO STANDARD
DETAIL PLATE NO. 817C AND SET UP SIDE DOWN,
PRECAST CONCRETE COVER NOT NEEDED, USE
METAL COVER.
(2) THE METAL FRAME SHALL BE A SQUARE SLAB
TYPE MANHOLE FRAME AND THE METAL COVER
SHALL BE A BOLTED (FLAT HEAD), GASKET-SEALED
LID WITH A WATERPROOF LIFT HANDLE.
SPEC. 3321 (CLASS 35B) HEAVY DUTY.

MAST ARM DETAILS



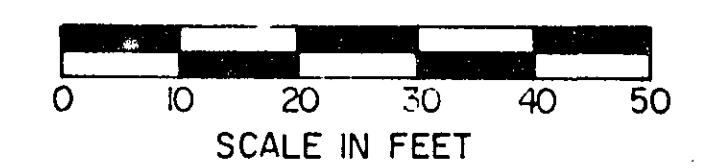
INTERSECTION		MAST ARM NUMBER
B	LARPENTEUR & CLEVELAND	①, ②, ③ & ④
C	LARPENTEUR & HAMLINE	①, ②, ③ & ④
D	LARPENTEUR & LEXINGTON	①, ②, ③ & ④
E	LARPENTEUR & DALE	①, ②, ③ & ④



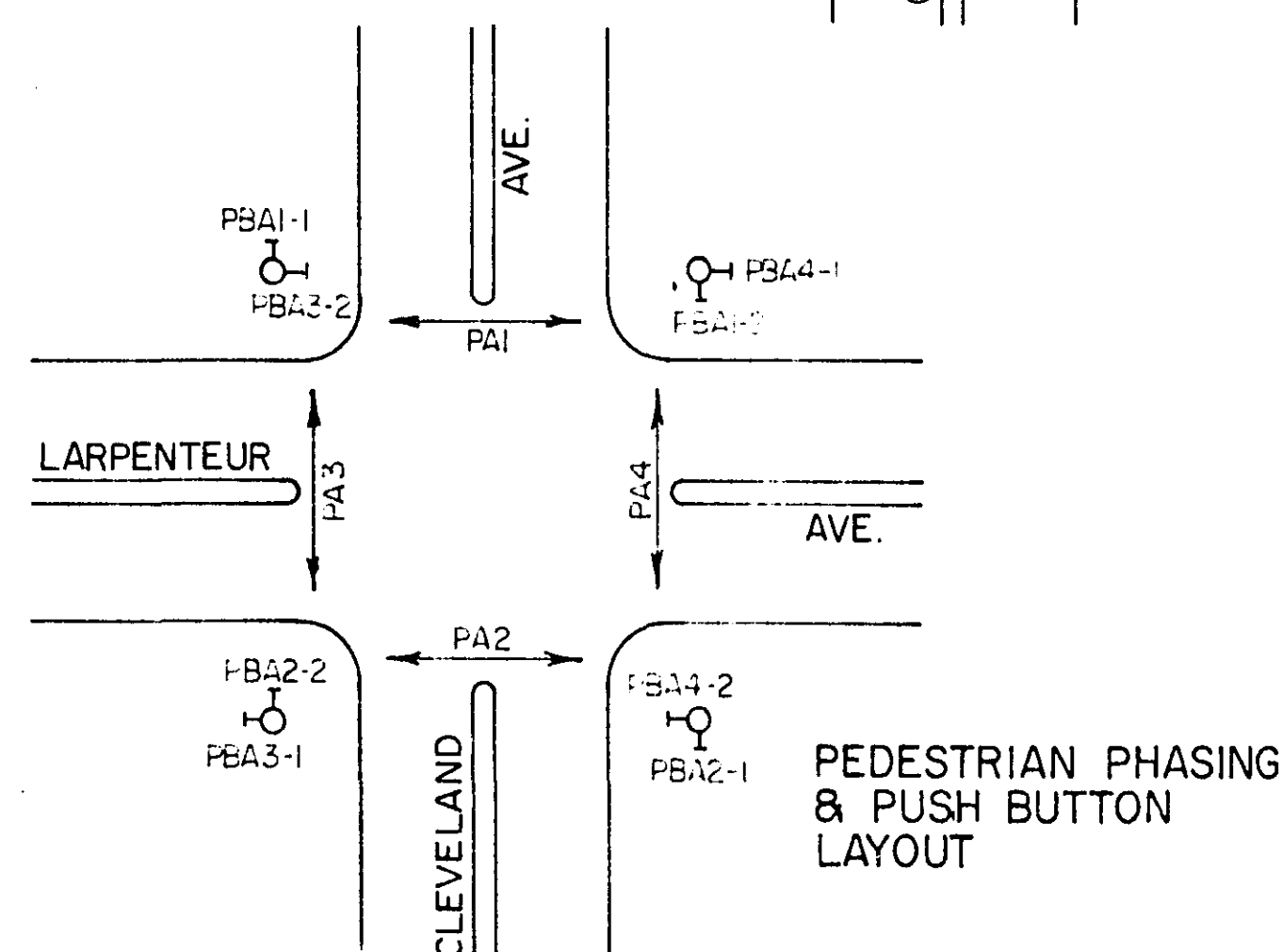
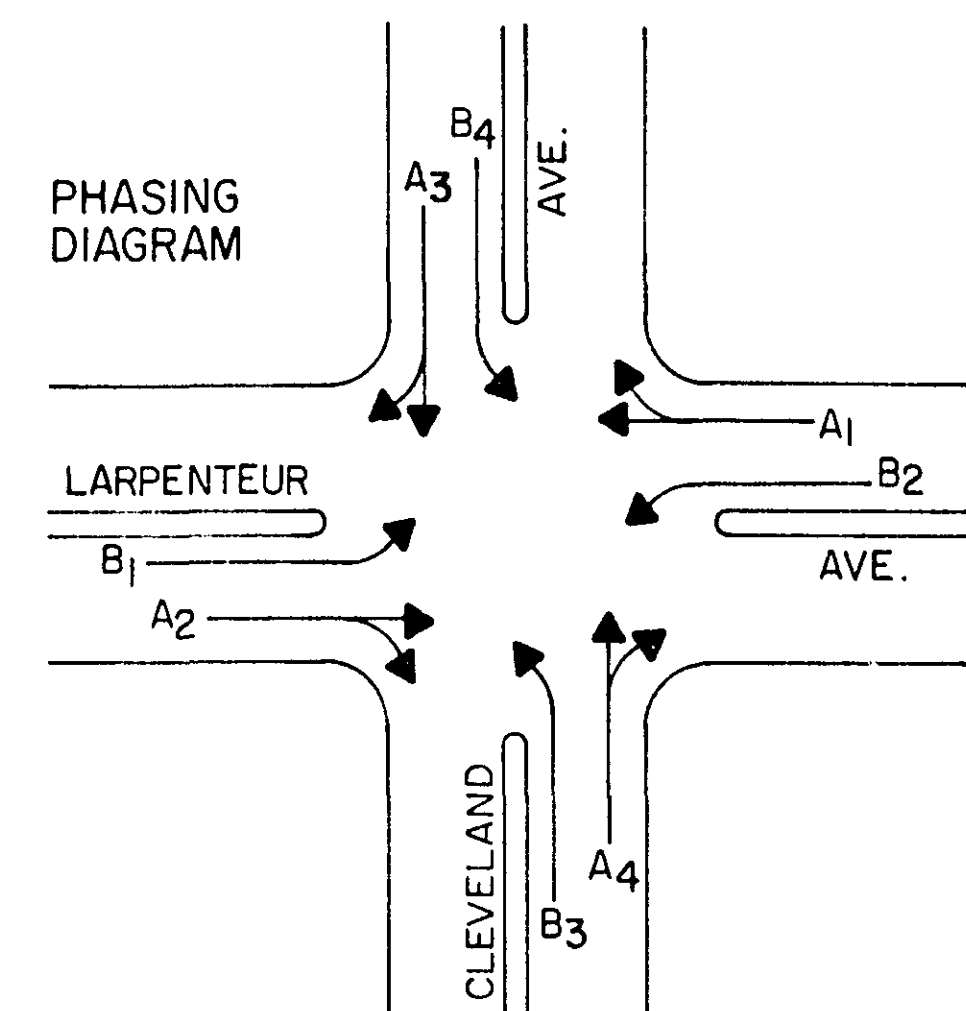
TYPICAL MOUNTING

NOTES:

1. PIPE MATERIAL SHALL CONFORM TO A.S.T.M. DESIGNATION A53,
SCHEDULE 40.
2. STRUCTURAL STEEL SHALL CONFORM TO M.H.D. 3306.
3. GALVANIZING SHALL CONFORM TO M.H.D. 3392 AND
M.H.D. 3394



LEGEND OF SYMBOLS	
	CONTROLLER
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PEDESTRIAN INDICATION
	SOURCE OF POWER (S.O.P.)
	EXISTING CONCRETE PAVEMENT



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1-1	A1	R	12"	12"	12"	-	-	-
A1-2	A1	R	12"	12"	12"	-	-	-
A2-1	A2	R	12"	12"	12"	-	-	-
A2-2	A2	R	12"	12"	12"	-	-	-
A3-1	A3	R	12"	12"	12"	-	-	-
A3-2	A3	R	12"	12"	12"	-	-	-
A4-1	A4	R	12"	12"	12"	-	-	-
A4-2	A4	R	12"	12"	12"	-	-	-
* B1-1	B1	R	12"	12"	-	12"	-	-
* B2-1	B2	R	12"	12"	-	12"	-	-
* B3-1	B3	R	12"	12"	-	12"	-	-
* B4-1	B4	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS

- 10' x 19' LOOP DETECTOR
(SEE DETAIL NO. 2)
- 1 1/2" R.M.C.
1 - 2/C #14 SHIELDED CABLE
- 6' x 10' LOOP DETECTOR
(SEE DETAIL NO. 2)
- 3" R.M.C.
2 - 12/C #12
4 - 3/C #12
2 - 1/C #6 TYPE R.H.W. OR T.H.W.
2 - 2/C #14 SHIELDED CABLE
- 3" R.M.C.
2 - 12/C #12
4 - 3/C #12
2 - 1/C #6 TYPE R.H.W. OR T.H.W.
1 - 2/C #14 SHIELDED CABLE
- 3" R.M.C.
2 - 12/C #12
4 - 3/C #12
2 - 1/C #6 TYPE R.H.W. OR T.H.W.

TYPE A - 35 - T - 30 - 15
LUMINAIRE (APPROX. 315°)
2 - ONE WAY SIGNALS (OVERHEAD MTD.)
1 - ONE WAY SIGNAL (POLE MTD. 270°)
2 - SETS PEDESTRIAN INDICATIONS
2 - PEDESTRIAN PUSH BUTTONS
SIGN DOWN LIGHT (OVERHEAD MTD.)
PHOTOELECTRIC CELL (ST. LIGHTS)

- 6' x 10' LOOP DETECTOR
(SEE DETAIL NO. 2)

- 10' x 19' LOOP DETECTOR
(SEE DETAIL NO. 2)

- 1 1/2" R.M.C.
1 - 2/C #14 SHIELDED CABLE

- 3" R.M.C.
1 - 2/C #14 SHIELDED CABLE

- 3" R.M.C.
2 - 12/C #12
3 - 3/C #12

TYPE A - 35
2 - ONE WAY SIGNALS (OVERHEAD MTD.)
1 - ONE WAY SIGNAL (POLE MTD. 270°)
2 - SETS PEDESTRIAN INDICATIONS
2 - PEDESTRIAN PUSH BUTTONS
SIGN DOWN LIGHT (OVERHEAD MTD.)

- 3" R.M.C.
2 - 12/C #12
3 - 3/C #12
2 - 2/C #14 SHIELDED CABLE

- 3" R.M.C.
2 - 12/C #12
3 - 3/C #12
2 - 2/C #14 SHIELDED CABLE

- 6' x 10' LOOP DETECTOR
(SEE DETAIL NO. 2)

- 1 1/2" R.M.C.
1 - 2/C #14 SHIELDED CABLE

- 10' x 19' LOOP DETECTOR
(SEE DETAIL NO. 2)

SOURCE OF POWER (EXISTING SERVICE POLE)
SERVICE EQUIPMENT

TYPE A - 35
2 - ONE WAY SIGNALS (OVERHEAD MTD.)
1 - ONE WAY SIGNAL (POLE MTD. 270°)
2 - SETS PEDESTRIAN INDICATIONS
2 - PEDESTRIAN PUSH BUTTONS
SIGN DOWN LIGHT (OVERHEAD MTD.)
PHOTOELECTRIC CELL (DOWN LIGHTS)

CONTROLLER CABINET
(SEE SPECIAL PROVISIONS)

- 3" R.M.C.
3 - 12/C #12
7 - 3/C #12

- 2 - 1 1/2" R.M.C.
4 - 1/C #6 TYPE R.H.W. OR T.H.W.

- 2 - 1 1/2" R.M.C.
6 - 12/C #12
8 - 3/C #12
8 - 1/C #6 TYPE R.H.W. OR T.H.W.
8 - 2/C #14 SHIELDED CABLE

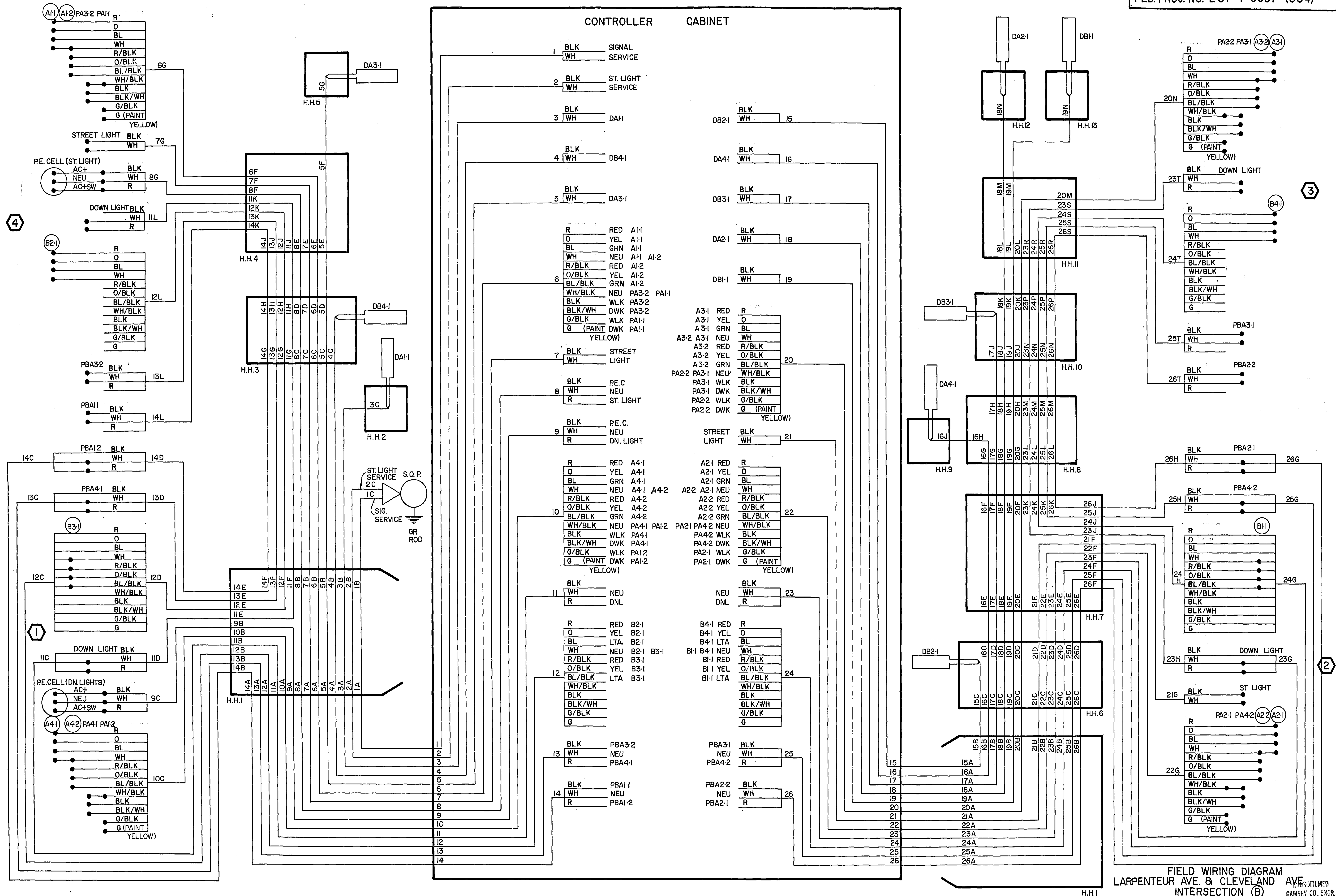
- 1 1/2" R.M.C.
1 - 2/C #14 SHIELDED CABLE

- 10' x 19' LOOP DETECTOR
(SEE DETAIL NO. 2)

NOTE:
(1) HANDHOLE 1 SHALL BE TWO HANDHOLES PLACED SIDE BY SIDE WITH 3' R.M.C. BETWEEN
(2) CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING SIGNAL SYSTEM (SEE SPECIAL PROVISIONS)

STATION	LOCATION	DESCRIPTION
LARPEN TEUR AVE.		
51+17	RT. 37'	HANDHOLE 12
52+24	RT. 37'	HANDHOLE 11
52+24	LT. 6'	HANDHOLE 13
52+29	LT. 40'	SIGNAL N° 4
52+42	RT. 53'	SIGNAL N° 3
52+47	LT. 60'	HANDHOLE 4
52+76	RT. 50'	HANDHOLE 10
52+80	LT. 50'	HANDHOLE 3
53+17	RT. 60'	HANDHOLE 8
53+22	LT. 53'	SIGNAL N° 1
53+28	LT. 53'	CONTROLLER CABINET
53+35	RT. 40'	SIGNAL N° 2
53+39	RT. 37'	HANDHOLE 7
53+39	RT. 6'	HANDHOLE 1
53+46	LT. 37'	HANDHOLE 2
CLEVELAND AVE.		
6+35	RT. 35'	HANDHOLE 9
9+65	LT. 35'	HANDHOLE 5

LARPEN TEUR AVE. & CLEVELAND AVE.
INTERSECTION (B)



PHASING DIAGRAM

HAYLINE

LARPENTEUR

A1

A2

A3

A4

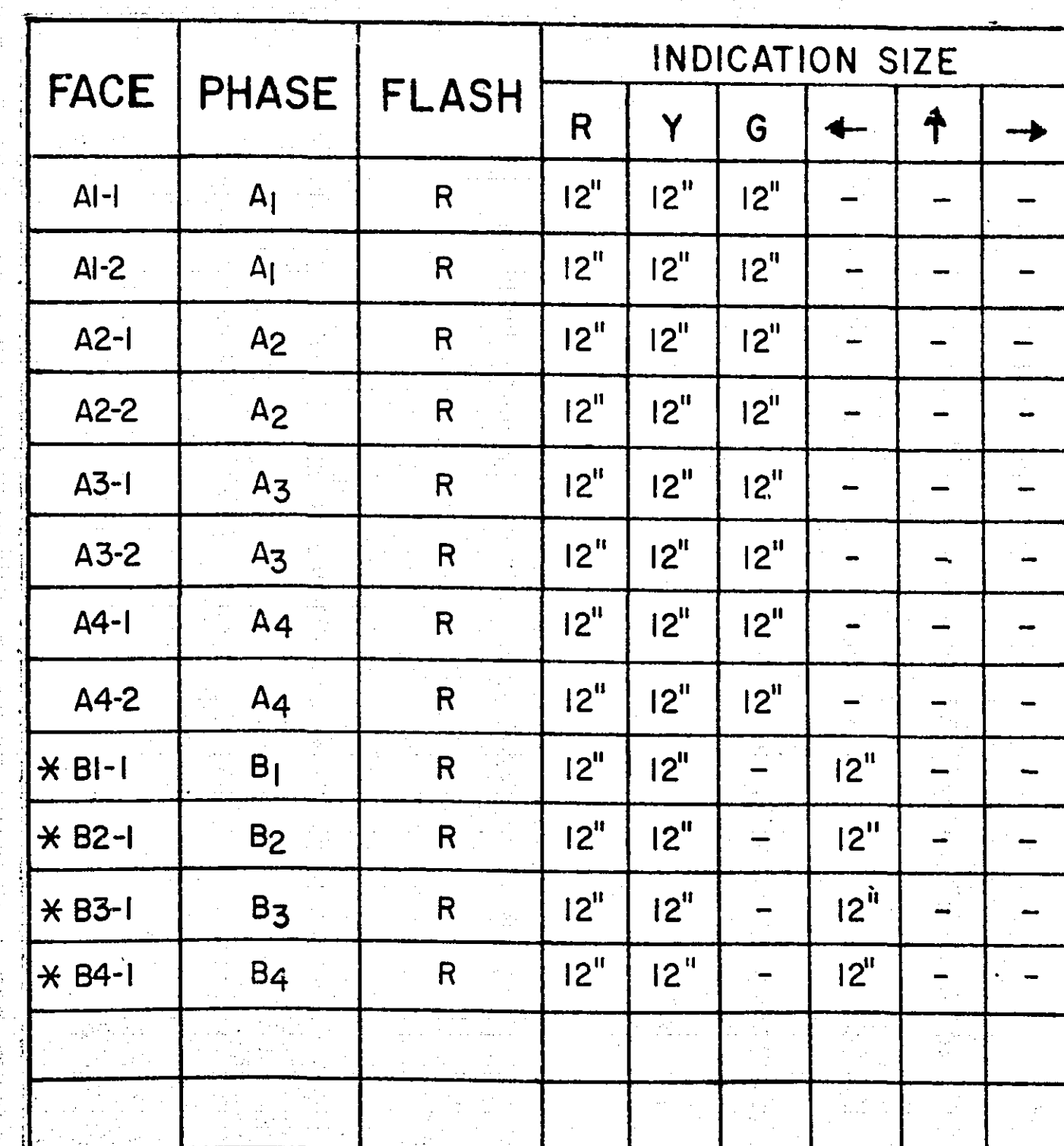
B1

B2

B3

B4

AVE.



10' x 19' LOOP DETECTOR
(SEE DETAIL NO.2)

1 1/2" R.M.C. _____
1 - 2/G #14 SHIELDED CABLE _____
3" R.M.C. _____
2 - 12/G #12 _____
4 - 3/G #11 SHIELDED CABLE _____
TYPE A - 33 - T - 30 - 15
LUMINAIRES (APPROX. 315°)
1 - ONE WAY SIGNALS (OVERHEAD MTD.)
1 - ONE WAY SIGNAL (POLE MTD. 270°)
2 - SETS PEDESTRIAN INDICATION
2 - PEDESTRIAN FUSH BUTTIS
SIGN DOWN LIGHT (OVERHEAD MTD.)
PHOTOELECTRIC CELL (ST. LIGHTS)

3" R.M.C.
3 - 12/C #12
7 - 3/C #12
2 - 1/C #6 TYPE R.H.W. OR T.H.W.

4" R.M.C.
3 - 12/C #12
4 - 3/C #12
2 - 1/C #6 TYPE R.H.W. CR T.H.W.
4 - 2/C #14 SHIELDED CABLE _____
6' x 40' LOOP DETECTOR
(SEE DETAIL NO.2) _____

1" R.M.C.
3 - 12/C #12
4 - 3/C #12
2 - 1/C #5 TYPE R.H.W. CR T.H.W.
5 - 2/C #14 SHIELDED CABLE _____
10' x 21' LOOP DETECTOR (CALLING)
(SEE DETAIL NO.2) _____

-- 10' x 21' LOOP DETECTOR
(SEE DETAIL NO.2)

1¹/₄" R.M.C.
1 - 2/C #14 SHIELDED CABLE-

SOURCE OF POWER (EXISTING SERVICE POLE)
SERVICE EQUIPMENT

2 - 1 $\frac{1}{2}$ " R.M.C.
4 - 1 $\frac{1}{2}$ " # 6 TYPE R.H.W. OR T.H.W

4th R.M.C.
3 - 12/C #12
4 - 3/C #12
6 - 1/C #6 TYPE R.H.W. OR T.H.W.
6 - 2/C #14 SHIELDED CABLE. _____

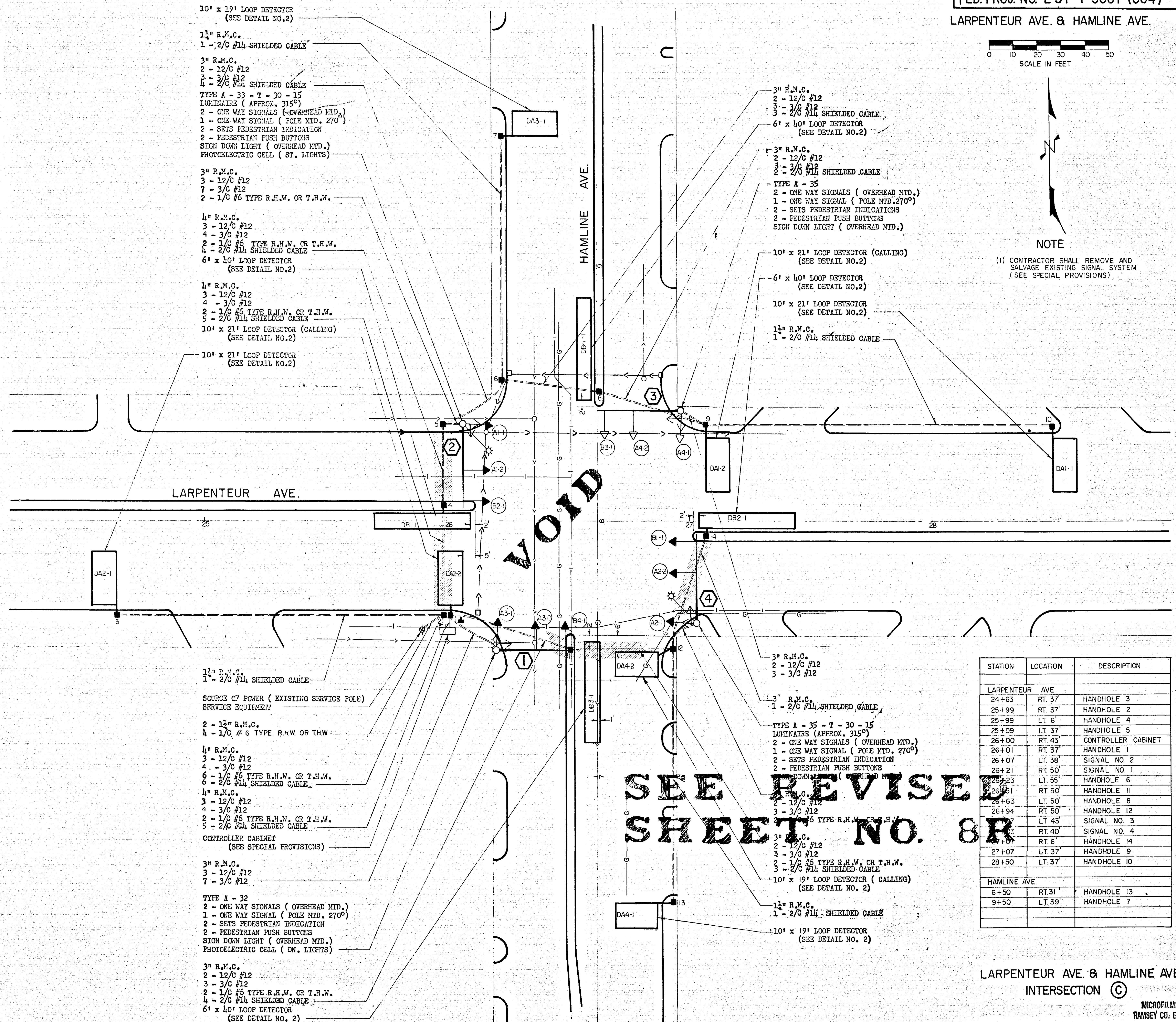
4th R.M.C.
3 - 12/C #12
4 - 3/C #12
2 - 1/C #6 TYPE R.H.W. OR T.H.W.
5 - 2/C #14 SHIELDED CABLE

CONTROLLER CABINET
(SEE SPECIAL PROVISIONS)

3rd R.M.C.
3 - 12/C #12
7 - 3/C #12

TYPE A - 32
2 - ONE WAY SIGNALS (OVERHEAD MTD.
1 - ONE WAY SIGNAL (POLE MTD. 270°
2 - SETS PEDESTRIAN INDICATION
2 - PEDESTRIAN PUSH BUTTONS
SIGN DOWN LIGHT (OVERHEAD MTD.)
PHOTOELECTRIC CELL (DN. LIGHTS) —

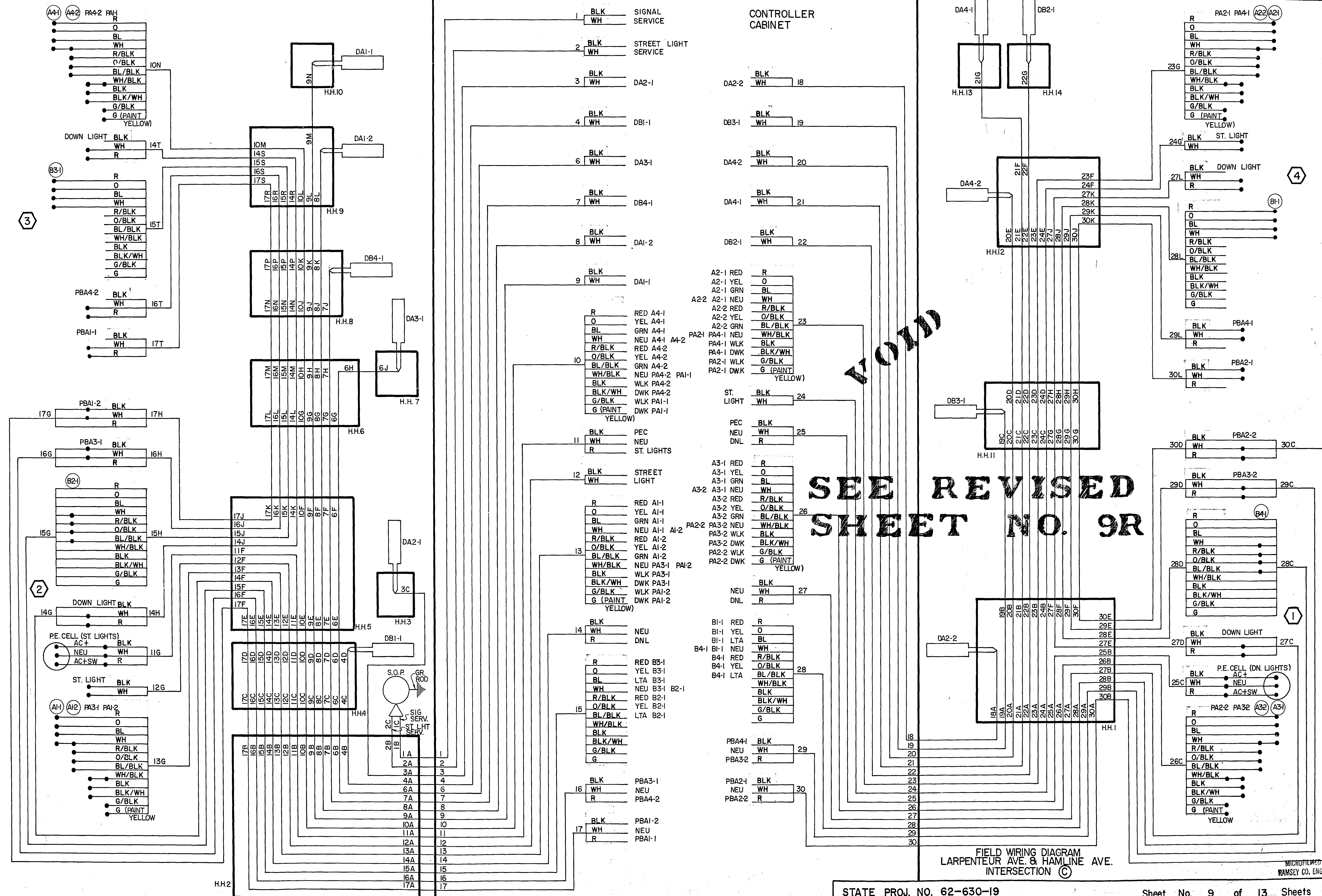
3" R.M.C.
2 - 12/C #12
3 - 3/C #12
2 - 1/C #5 TYPE R.H.W. OR T.H.W.
4 - 2/C #14 SHIELDED CABLE
6' x 40" LOOP DETECTOR
(SEE DETAIL NO. 2)

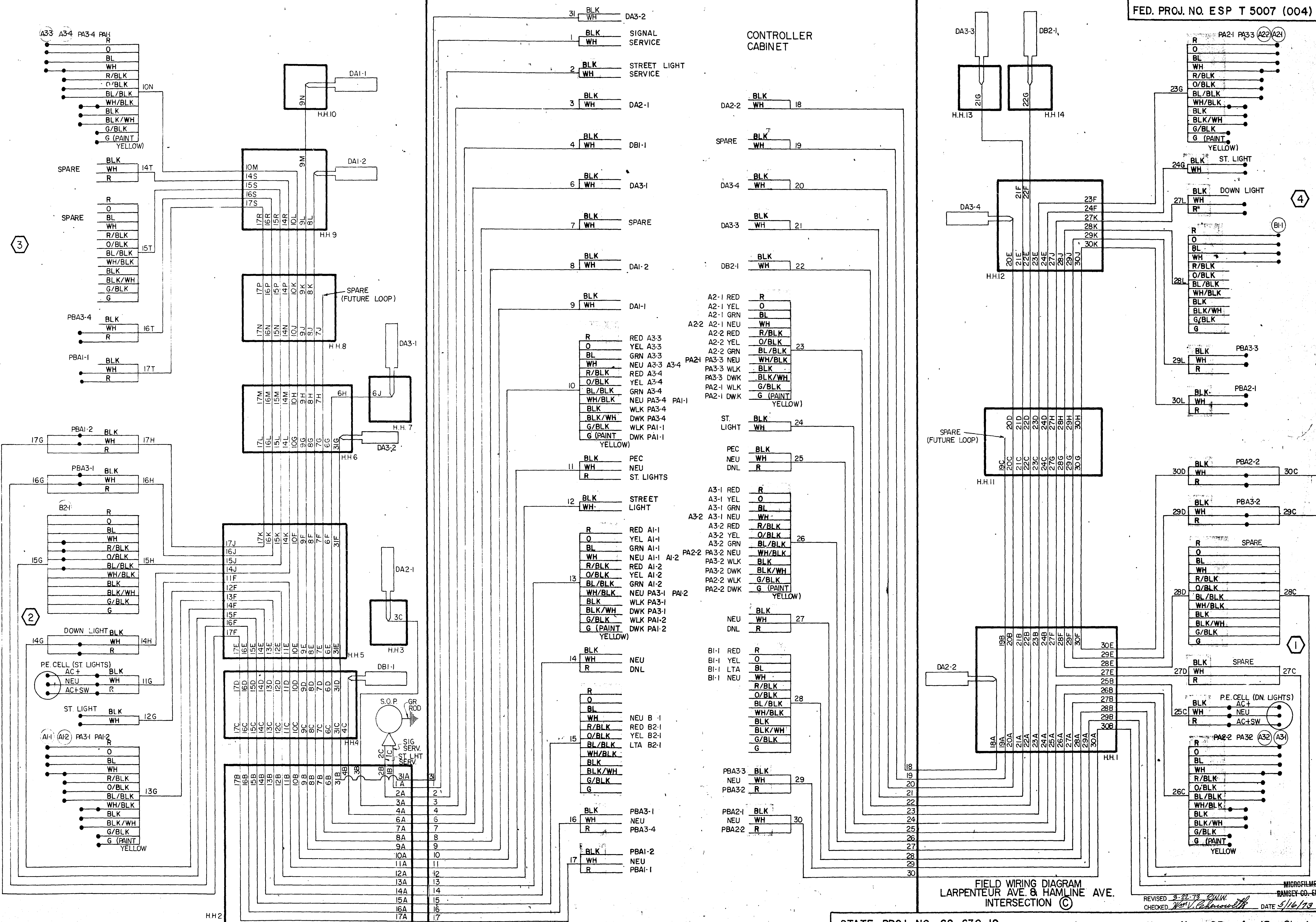


STATION	LOCATION	DESCRIPTION
LARPENTEUR	AVE	
24+63	RT 37'	HANDHOLE 3
25+99	RT 37'	HANDHOLE 2
25+99	LT 6'	HANDHOLE 4
25+99	LT 37'	HANDHOLE 5
26+00	RT 43'	CONTROLLER CABINET
26+01	RT 37'	HANDHOLE 1
26+07	LT 38'	SIGNAL NO. 2
26+21	RT 50'	SIGNAL NO. 1
26+23	LT 55'	HANDHOLE 6
26+51	RT 50'	HANDHOLE 11
26+63	LT 50'	HANDHOLE 8
26+94	RT 50'	HANDHOLE 12
27+07	LT 43'	SIGNAL NO. 3
27+07	RT 40'	SIGNAL NO. 4
27+07	RT 6'	HANDHOLE 14
27+07	LT 37'	HANDHOLE 9
28+50	LT 37'	HANDHOLE 10
HAMLINE AVE.		
6+50	RT 31'	HANDHOLE 13
9+50	LT 39'	HANDHOLE 7

LARPEN TEUR AVE. & HAMLINE AVE.
INTERSECTION (C)

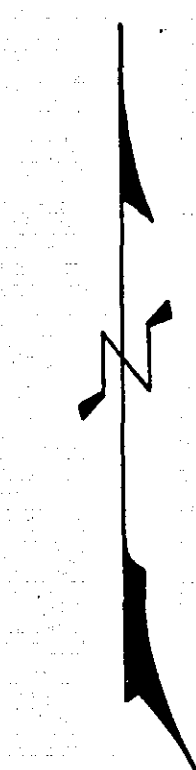
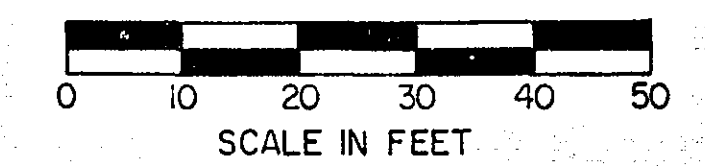
**MICROFILMED
RAMSEY CO. ENGR.**





FIELD WIRING DIAGRAM
LARPENNEUR AVE. & HAMLINE AVE.
INTERSECTION ©

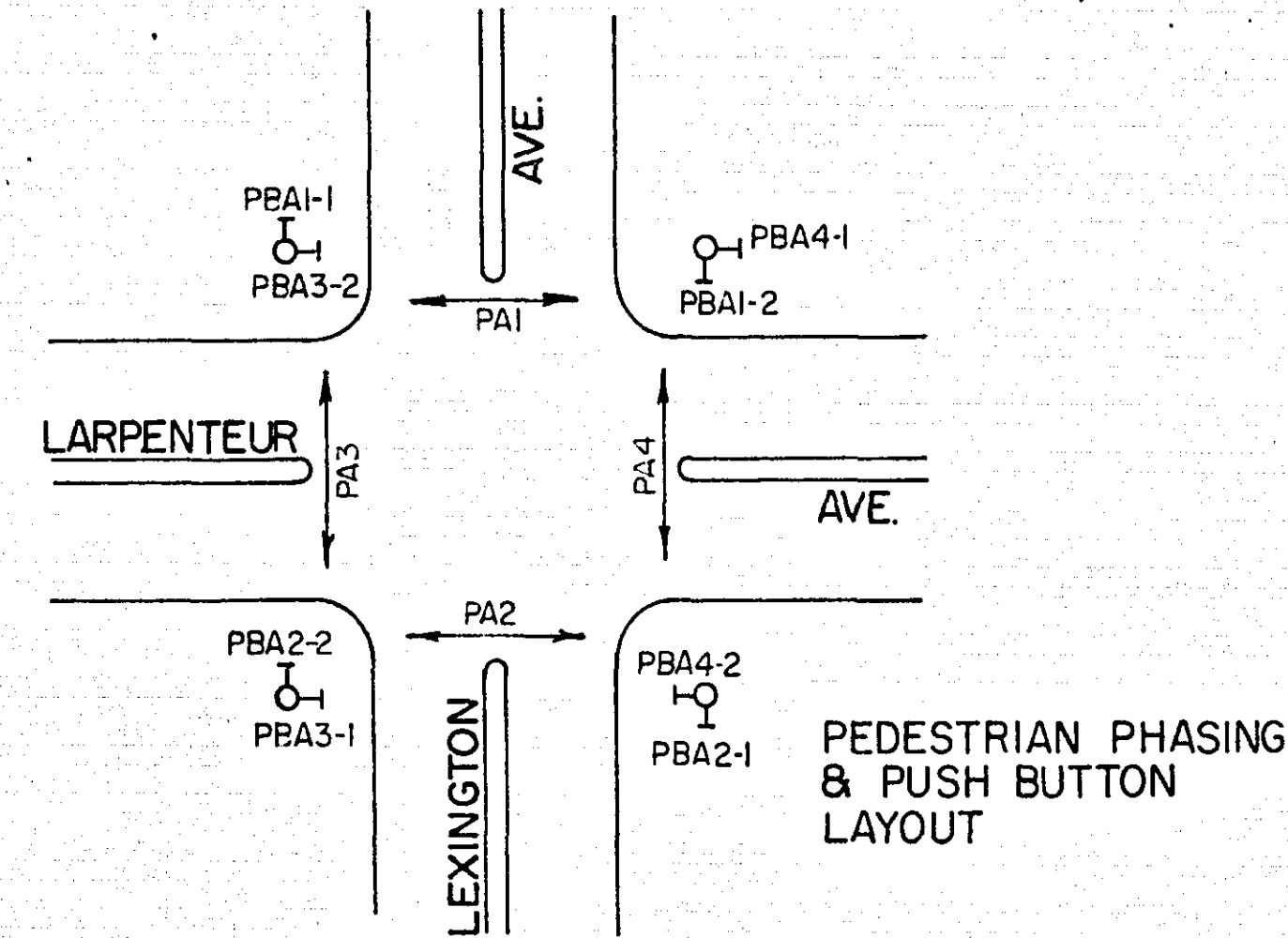
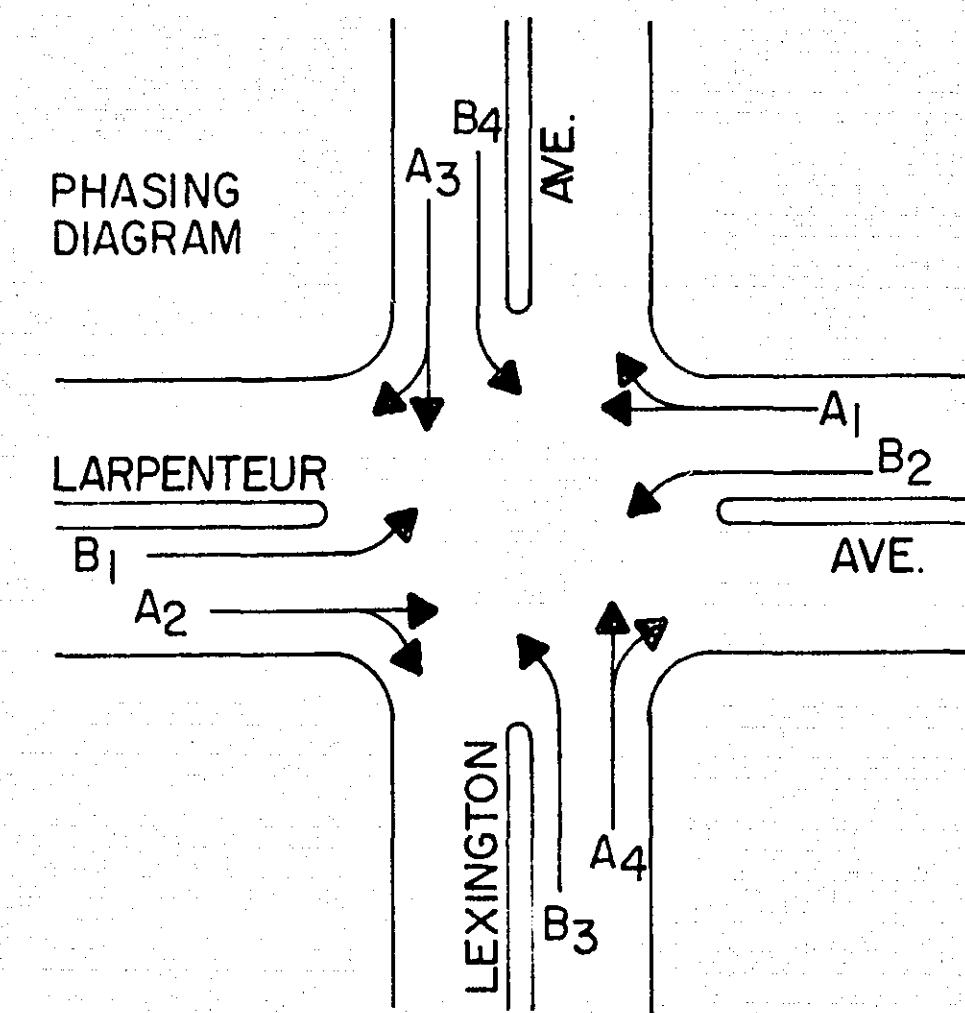
REVISION 3-22-73
CHECKED *[Signature]* DATE 5/16/73
MICROFILMED
RAMSEY CO. ENGR.



NOTE:

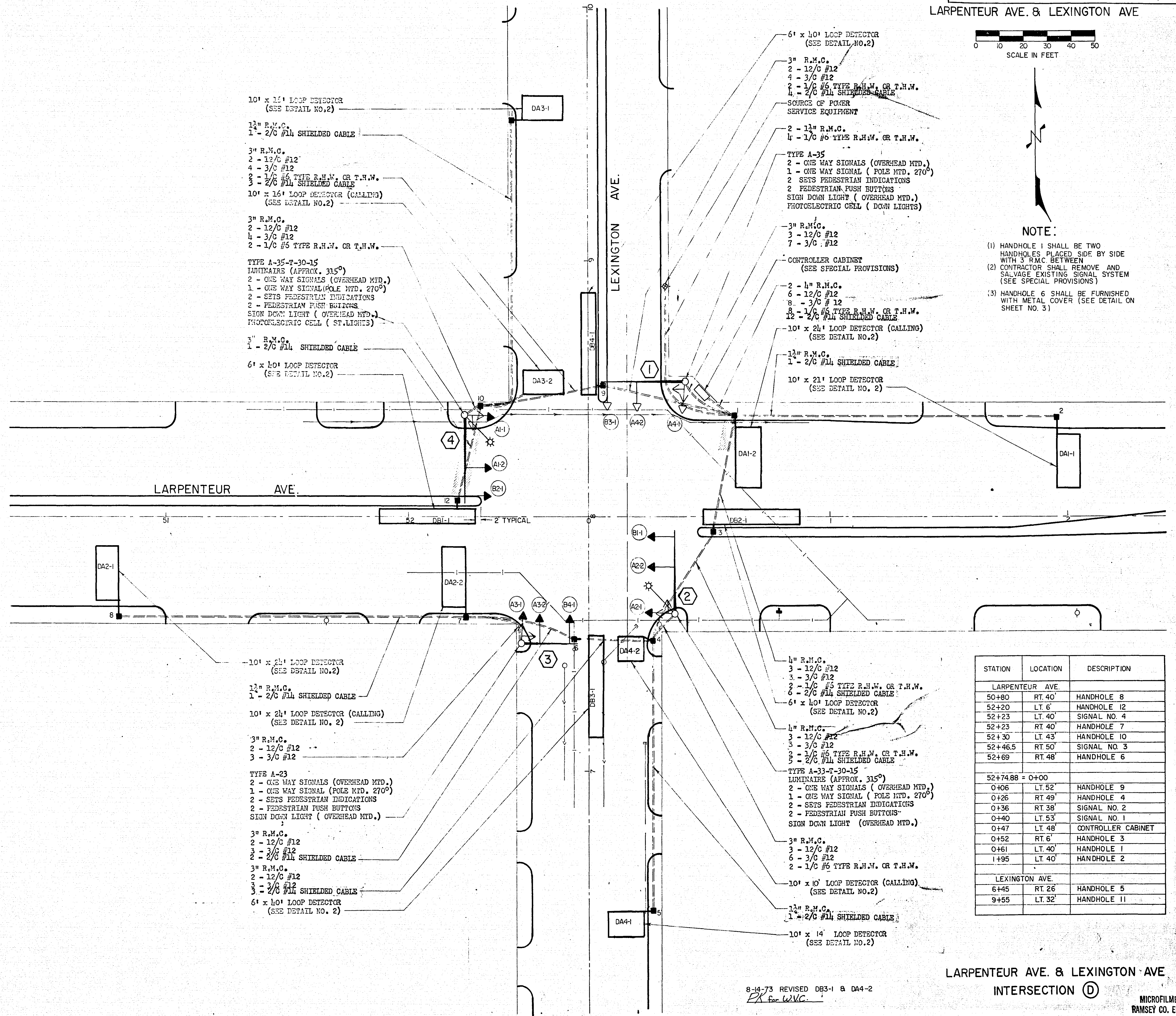
- (1) HANDHOLE 1 SHALL BE TWO HANDHOLES PLACED SIDE BY SIDE WITH 3 R.M.C. BETWEEN
- (2) CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING SIGNAL SYSTEM (SEE SPECIAL PROVISIONS)
- (3) HANDHOLE 6 SHALL BE FURNISHED WITH METAL COVER (SEE DETAIL ON SHEET NO. 3)

LEGEND OF SYMBOLS	
	CONTROLLER
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PEDESTRIAN INDICATION
	SOURCE OF POWER (S.O.P.)
	EXISTING CONCRETE PAVEMENT



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1-1	A1	R	12"	12"	12"	-	-	-
A1-2	A1	R	12"	12"	12"	-	-	-
A2-1	A2	R	12"	12"	12"	-	-	-
A2-2	A2	R	12"	12"	12"	-	-	-
A3-1	A3	R	12"	12"	12"	-	-	-
A3-2	A3	R	12"	12"	12"	-	-	-
A4-1	A4	R	12"	12"	12"	-	-	-
A4-2	A4	R	12"	12"	12"	-	-	-
* B1-1	B1	R	12"	12"	-	12"	-	-
* B2-1	B2	R	12"	12"	-	12"	-	-
* B3-1	B3	R	12"	12"	-	12"	-	-
* B4-1	B4	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS

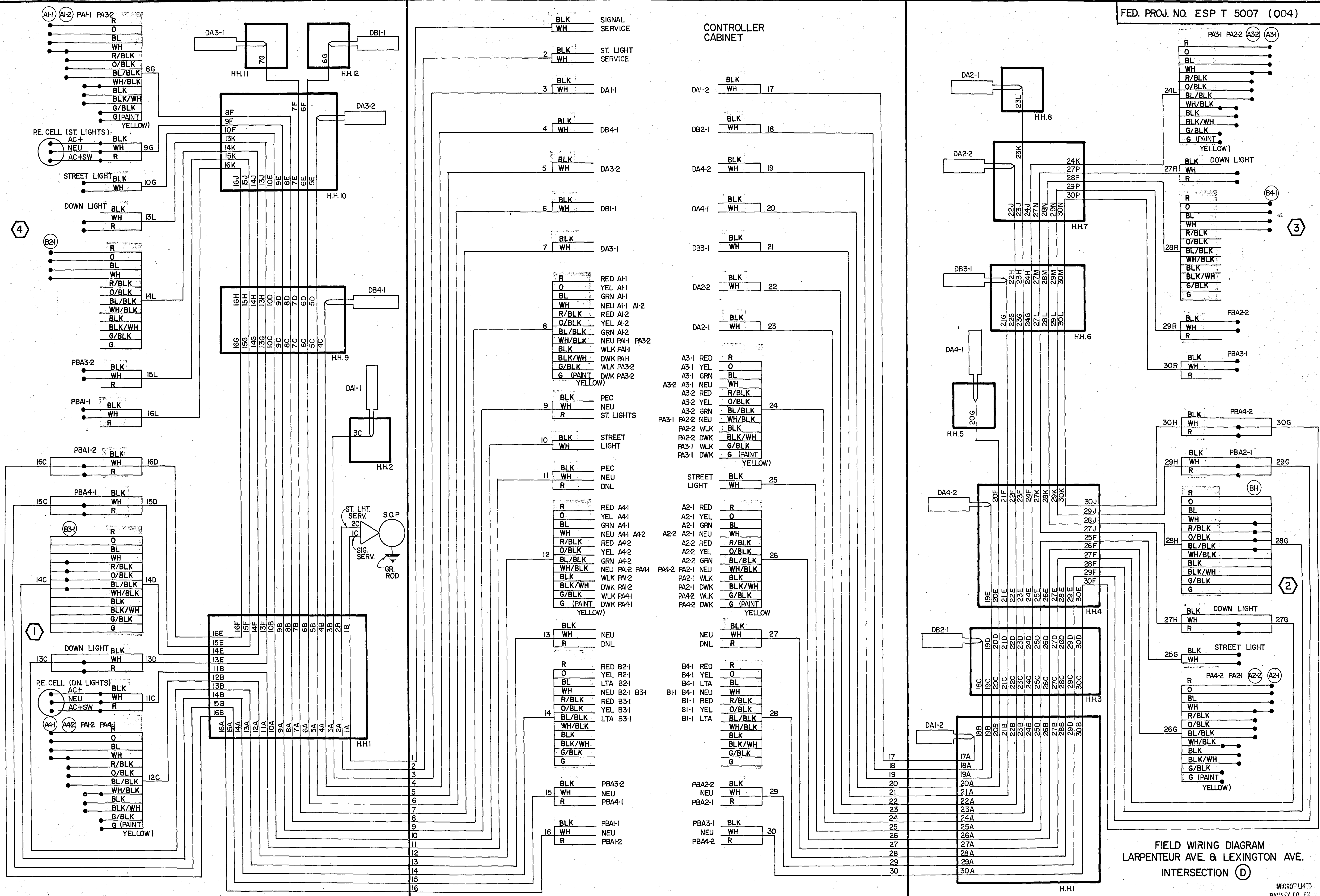


STATION	LOCATION	DESCRIPTION
LARPEN TEUR AVE		
50+80	RT. 40'	HANDHOLE 8
52+20	LT. 6'	HANDHOLE 12
52+23	LT. 40'	SIGNAL NO. 4
52+23	RT. 40'	HANDHOLE 7
52+30	LT. 43'	HANDHOLE 10
52+46.5	RT. 50'	SIGNAL NO. 3
52+69	RT. 48'	HANDHOLE 6
52+74.88 = 0+00		
0+06	LT. 52'	HANDHOLE 9
0+26	RT. 49'	HANDHOLE 4
0+36	RT. 38'	SIGNAL NO. 2
0+40	LT. 53'	SIGNAL NO. 1
0+47	LT. 48'	CONTROLLER CABINET
0+52	RT. 6'	HANDHOLE 3
0+61	LT. 40'	HANDHOLE 1
1+95	LT. 40'	HANDHOLE 2
LEXINGTON AVE		
6+45	RT. 26'	HANDHOLE 5
9+55	LT. 32'	HANDHOLE 11

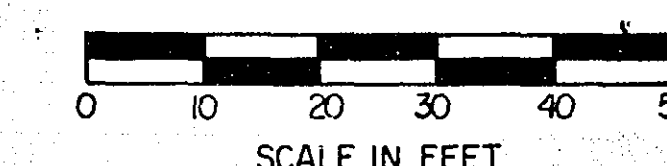
LARPEN TEUR AVE. & LEXINGTON AVE
INTERSECTION (D)

8-14-73 REVISED DB3-1 & DA4-2
PK for WVC.

MICROFILMED
RAMSEY CO. ENGR.



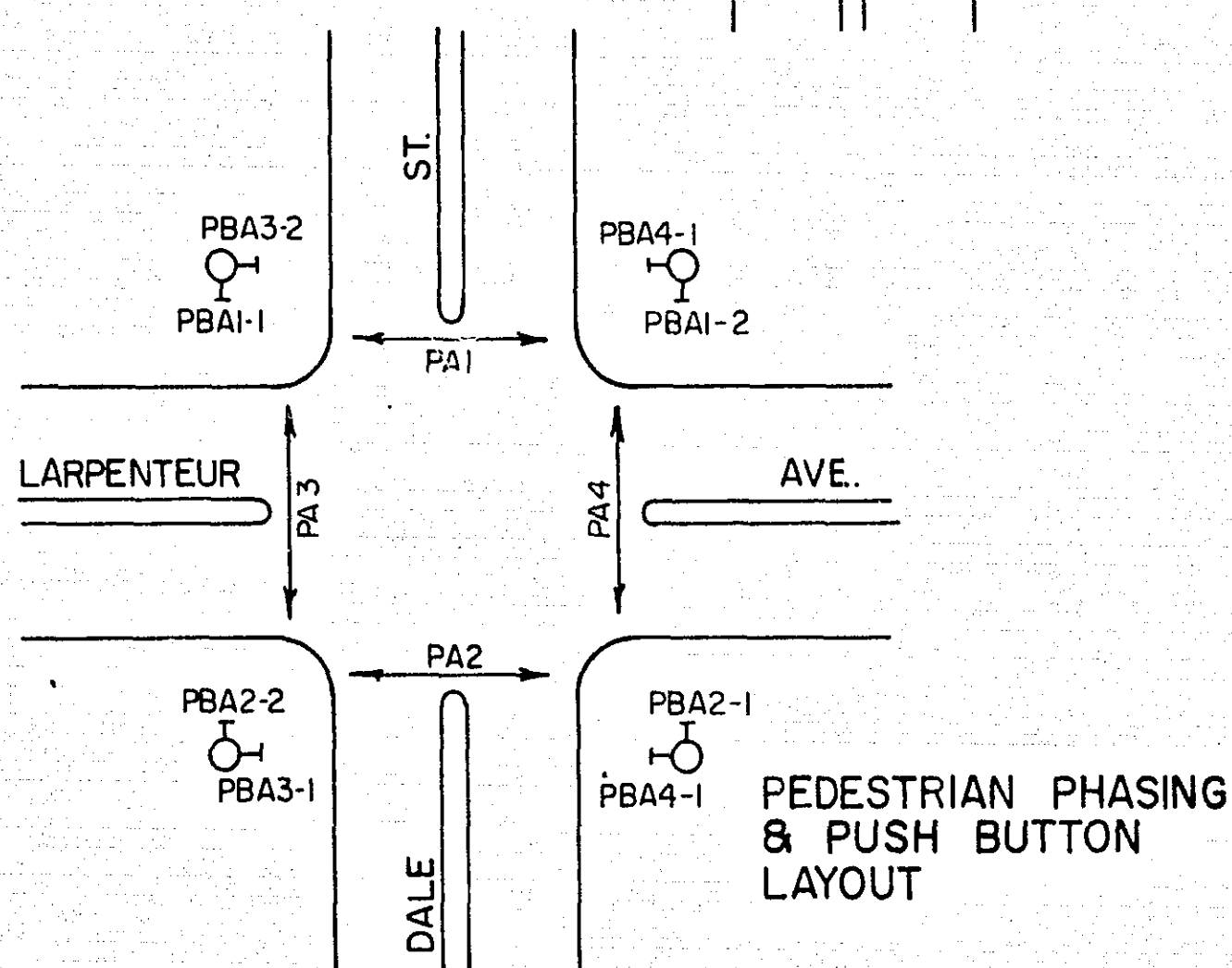
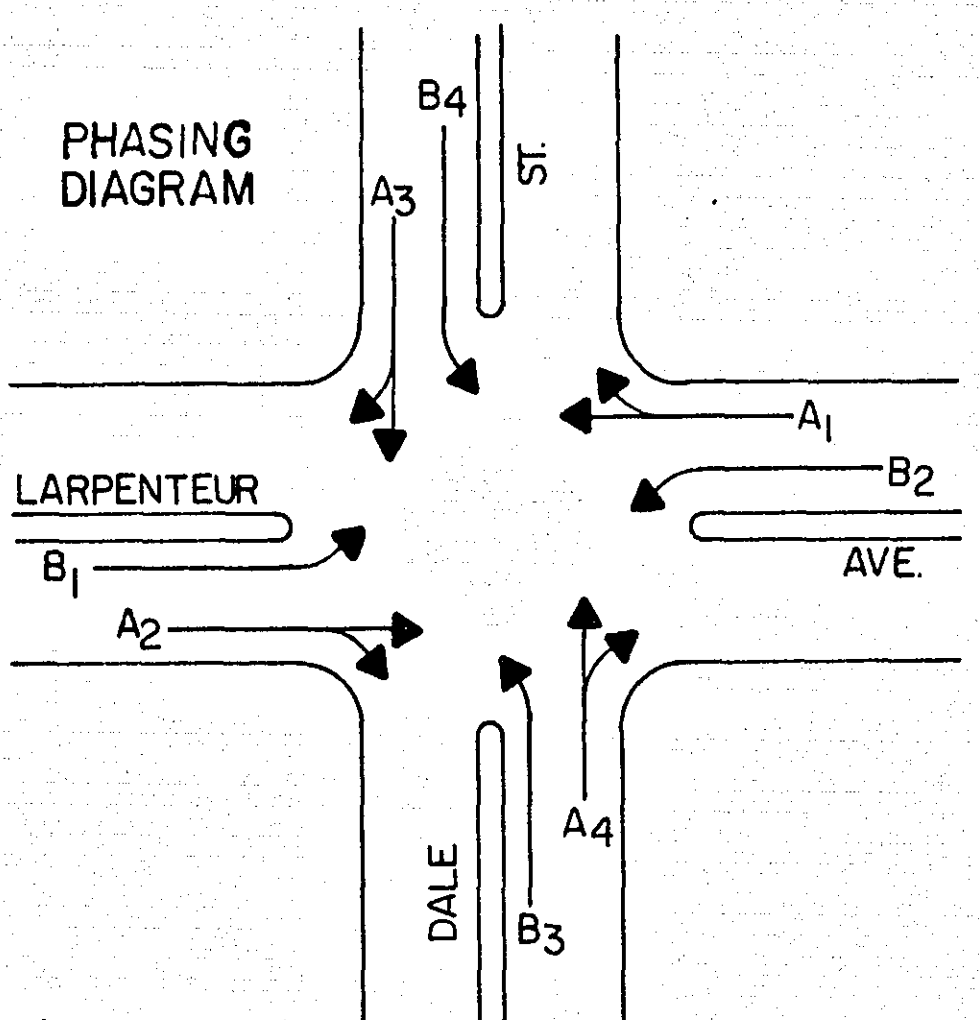
FIELD WIRING DIAGRAM
LARPENTEUR AVE. & LEXINGTON AVE.
INTERSECTION (D)



NOTE:

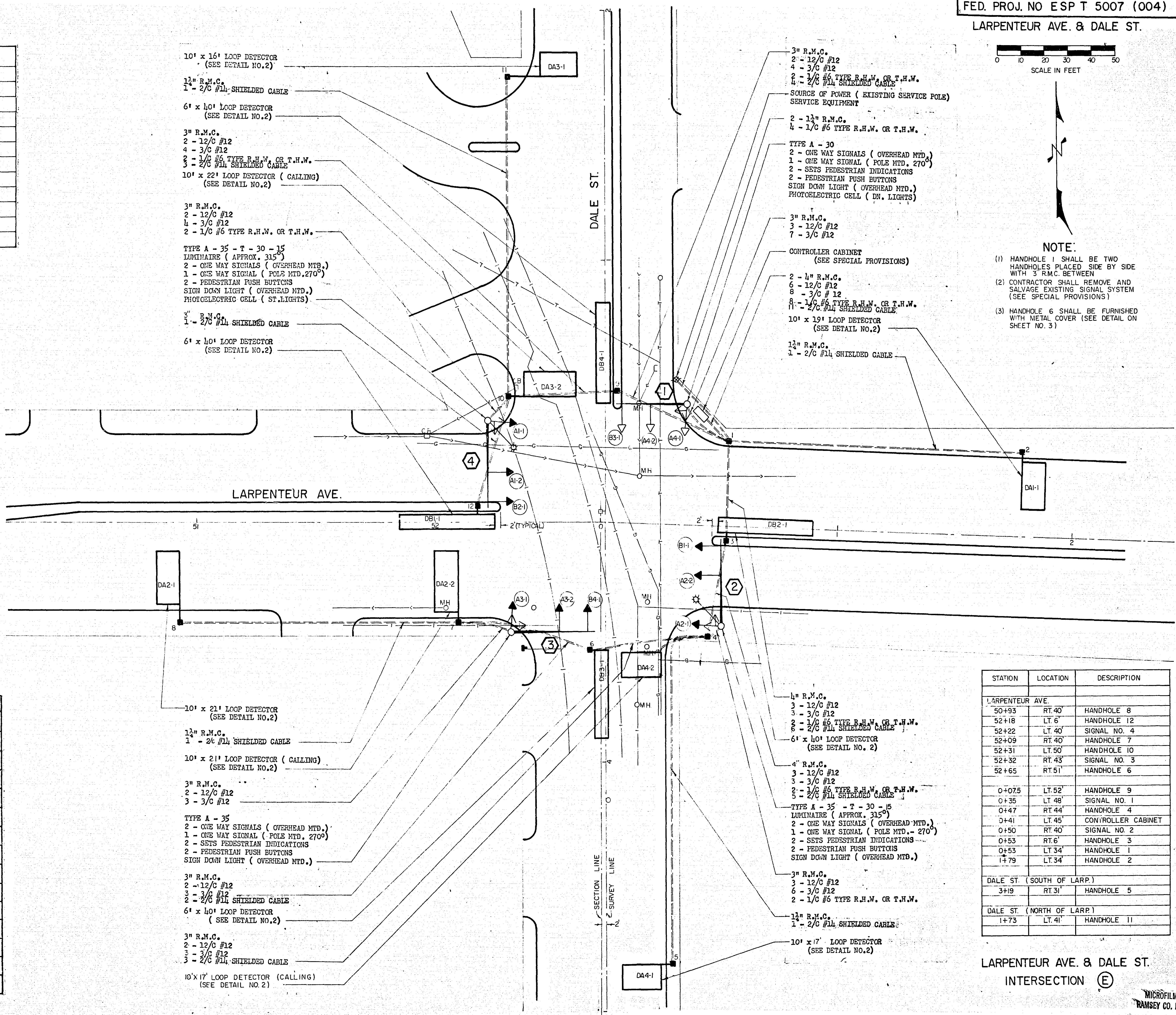
- (1) HANDHOLE 1 SHALL BE TWO HANDHOLES PLACED SIDE BY SIDE WITH 3" R.M.C. BETWEEN
- (2) CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING SIGNAL SYSTEM (SEE SPECIAL PROVISIONS)
- (3) HANDHOLE 6 SHALL BE FURNISHED WITH METAL COVER (SEE DETAIL ON SHEET NO. 3)

LEGEND OF SYMBOLS	
	CONTROLLER
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PEDESTRIAN INDICATION
	SOURCE OF POWER (S.O.P.)
	EXISTING CONCRETE PAVEMENT



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1-1	A1	R	12"	12"	12"	-	-	-
A1-2	A1	R	12"	12"	12"	-	-	-
A2-1	A2	R	12"	12"	12"	-	-	-
A2-2	A2	R	12"	12"	12"	-	-	-
A3-1	A3	R	12"	12"	12"	-	-	-
A3-2	A3	R	12"	12"	12"	-	-	-
A4-1	A4	R	12"	12"	12"	-	-	-
A4-2	A4	R	12"	12"	12"	-	-	-
* B1-1	B1	R	12"	12"	-	12"	-	-
* B2-1	B2	R	12"	12"	-	12"	-	-
* B3-1	B3	R	12"	12"	-	12"	-	-
* B4-1	B4	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS



STATION	LOCATION	DESCRIPTION
LARPEN TEUR AVE.		
50+93	RT. 40'	HANDHOLE 8
52+18	LT. 6'	HANDHOLE 12
52+22	LT. 40'	SIGNAL NO. 4
52+09	RT. 40'	HANDHOLE 7
52+31	LT. 50'	HANDHOLE 10
52+32	RT. 43'	SIGNAL NO. 3
52+65	RT. 51'	HANDHOLE 6
0+075	LT. 52'	HANDHOLE 9
0+35	LT. 48'	SIGNAL NO. 1
0+47	RT. 44'	HANDHOLE 4
0+41	LT. 45'	CONTROLLER CABINET
0+50	RT. 40'	SIGNAL NO. 2
0+53	RT. 6'	HANDHOLE 3
0+53	LT. 34'	HANDHOLE 1
1+79	LT. 34'	HANDHOLE 2
DALE ST. (SOUTH OF LARP.)		
3+19	RT. 31'	HANDHOLE 5
DALE ST. (NORTH OF LARP.)		
1+73	LT. 41'	HANDHOLE 11

LARPEN TEUR AVE. & DALE ST.
INTERSECTION (E)

MICROFILMED
RAMSEY CO. ENGR.

