

PLANS SYMBOLS

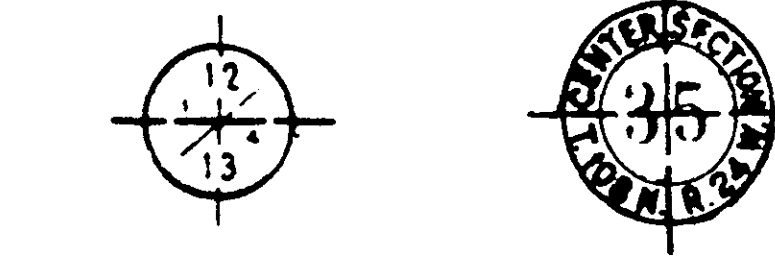
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT 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



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

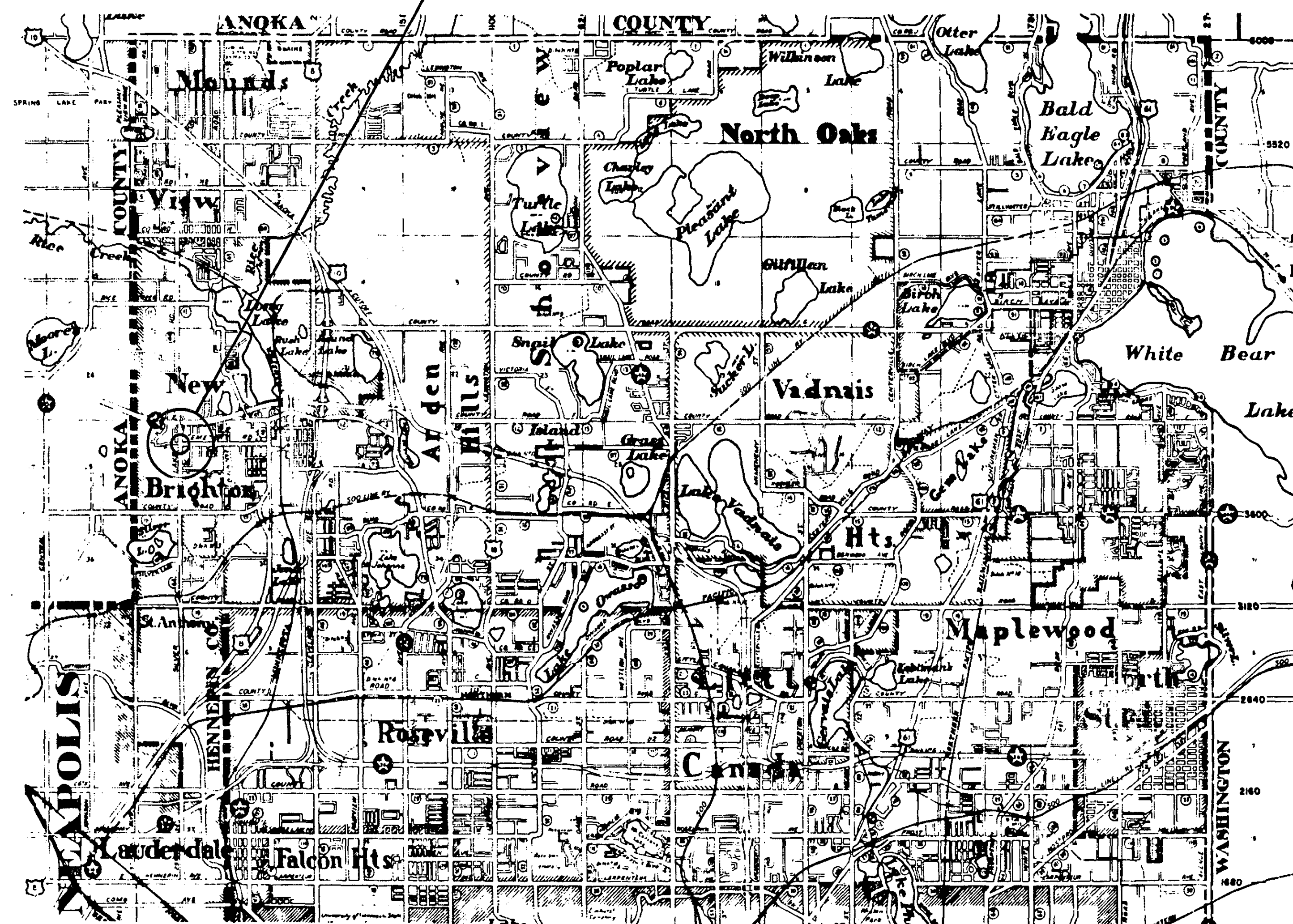
PIT NO. Located in Dead Haul
PIT NO. Located in Dead Haul

THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1968 AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 1969 SHALL GOVERN.

OFFICE OF COUNTY ENGINEER RAMSEY COUNTY

PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF SILVER LAKE RD. & 7th ST. N.W.

COUNTY PROJ. NO. 70-44-S



CITY OF ST. PAUL

INDEX

SHEET NO. DESCRIPTION
1 TITLE SHEET
2-4 DETAILS
5 INTERSECTION LAYOUT
6 FIELD WIRING DIAGRAM

DESIGNED BY *Wm V. Schenck* DATE 4-17-70
DIRECTOR OF SAFETY
RECOMMENDED FOR APPROVAL *Wm V. Schenck* 4-17-70
DIRECTOR OF SAFETY
RECOMMENDED FOR APPROVAL _____ DATE _____
MAINTENANCE ENGINEER
RECOMMENDED FOR APPROVAL _____ DATE _____
CONSTRUCTION ENGINEER
RECOMMENDED FOR APPROVAL _____ DATE _____
RECOMMENDED FOR APPROVAL _____ DATE _____
APPROVED *Wm V. Schenck* DATE 4-17-70
CITY OF ST. PAUL
RECOMMENDED FOR APPROVAL _____ DATE _____
COUNTY ENGINEER
APPROVED *Pharmark Butte* DATE 4-27-70
CHAIRMAN OF THE RAMSEY COUNTY BOARD
APPROVED *Gayle C. Burman* DATE 5-12-70
MAYOR, VILLAGE OF NEW BRIGHTON
APPROVED *Robert W. Schaefer* DATE 5-12-70
MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL _____ DATE _____
RECOMMENDED FOR APPROVAL _____ DATE _____
DISTRICT STATE AID ENGINEER
APPROVAL _____ DATE _____
STATE AID ENGINEER

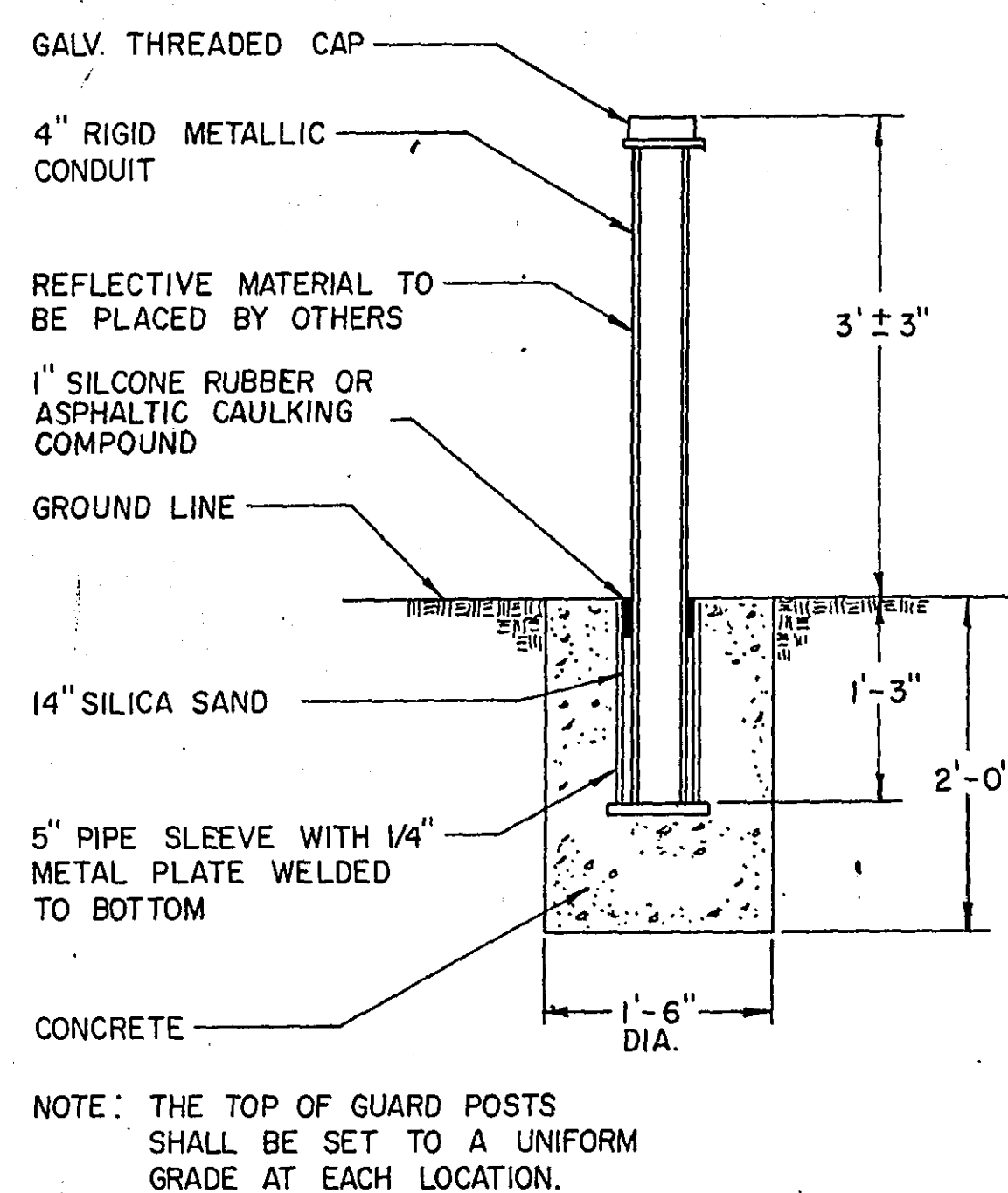
CO. PROJ. NO. 70-44-S

Sheet No. 1 of 6 Sheets

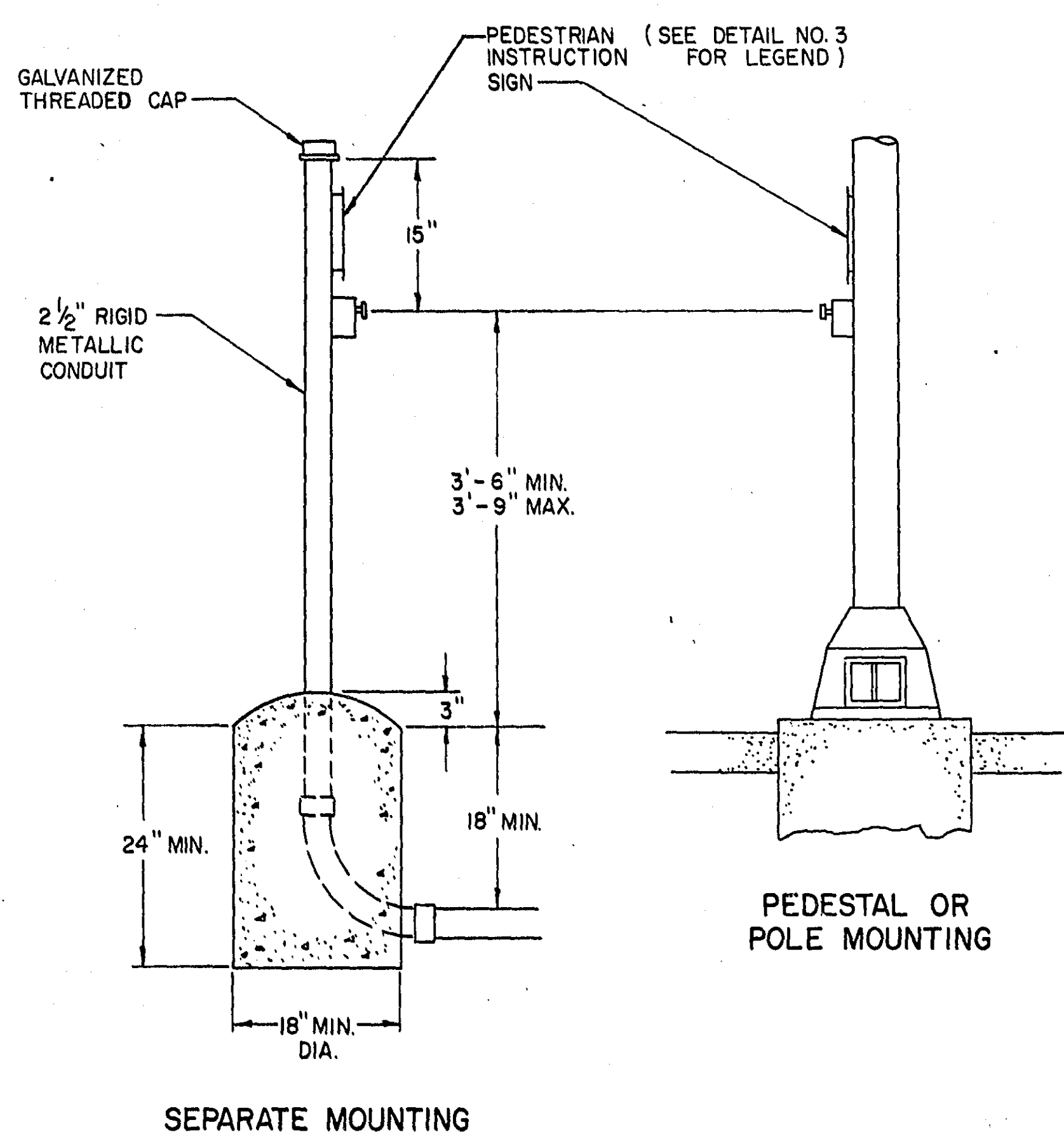
MICROFILMED
BY THE STATE ARCHIVE

17-114

GUARD POST

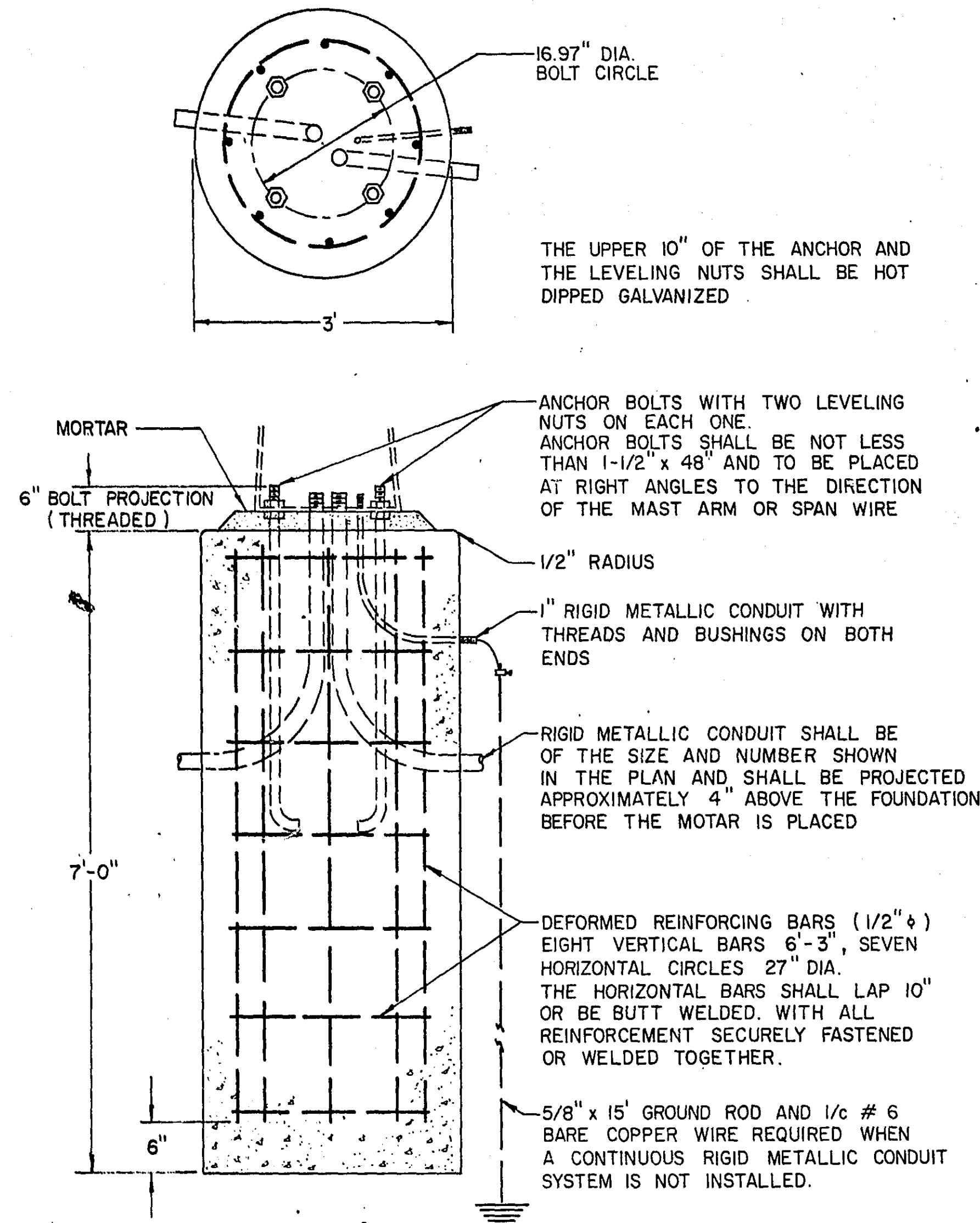


PEDESTRIAN PUSH BUTTON DETAIL NO. 1

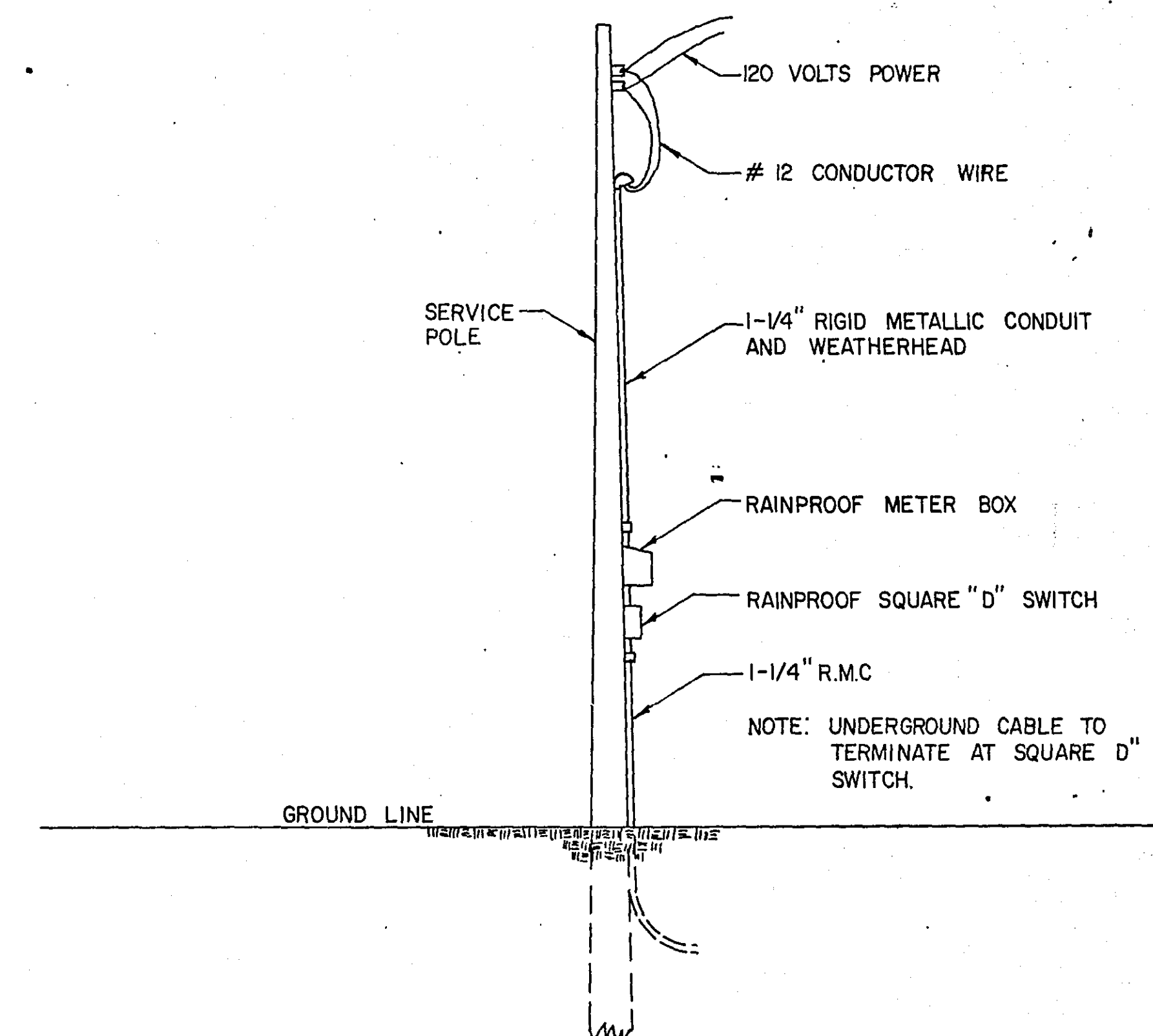


CONCRETE FOUNDATION

FOR MAST ARM TRAFFIC SIGNAL POLE

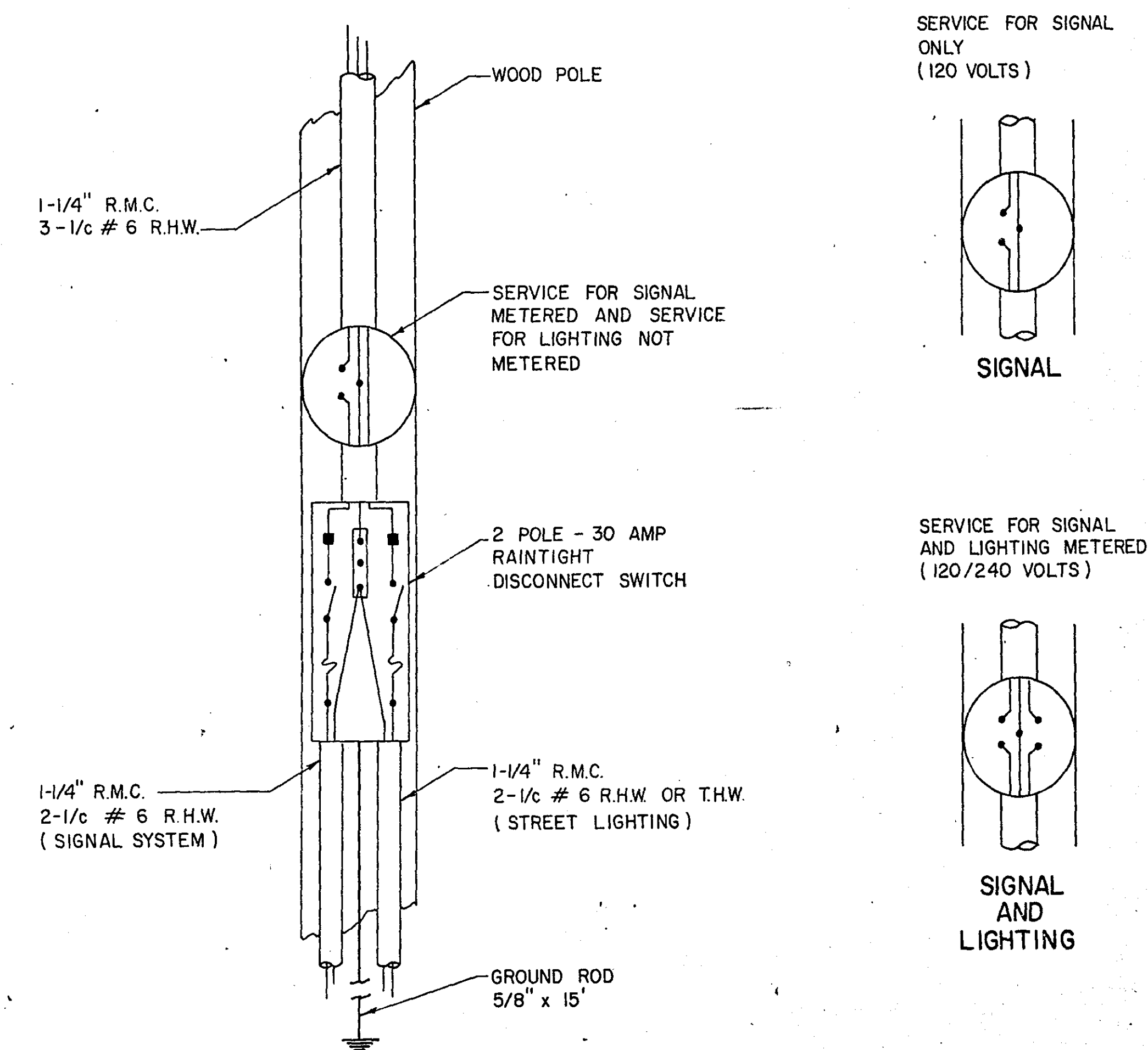
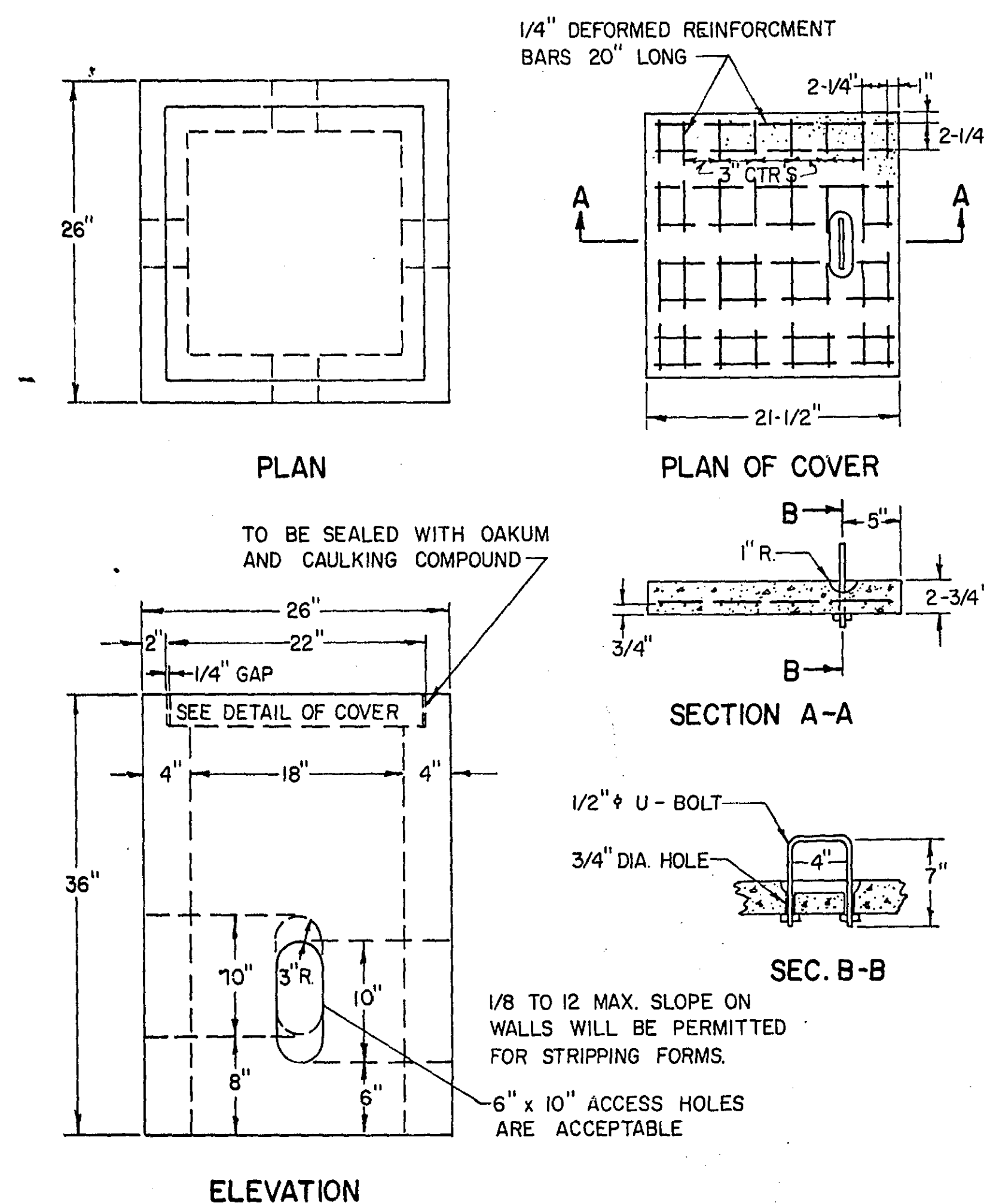
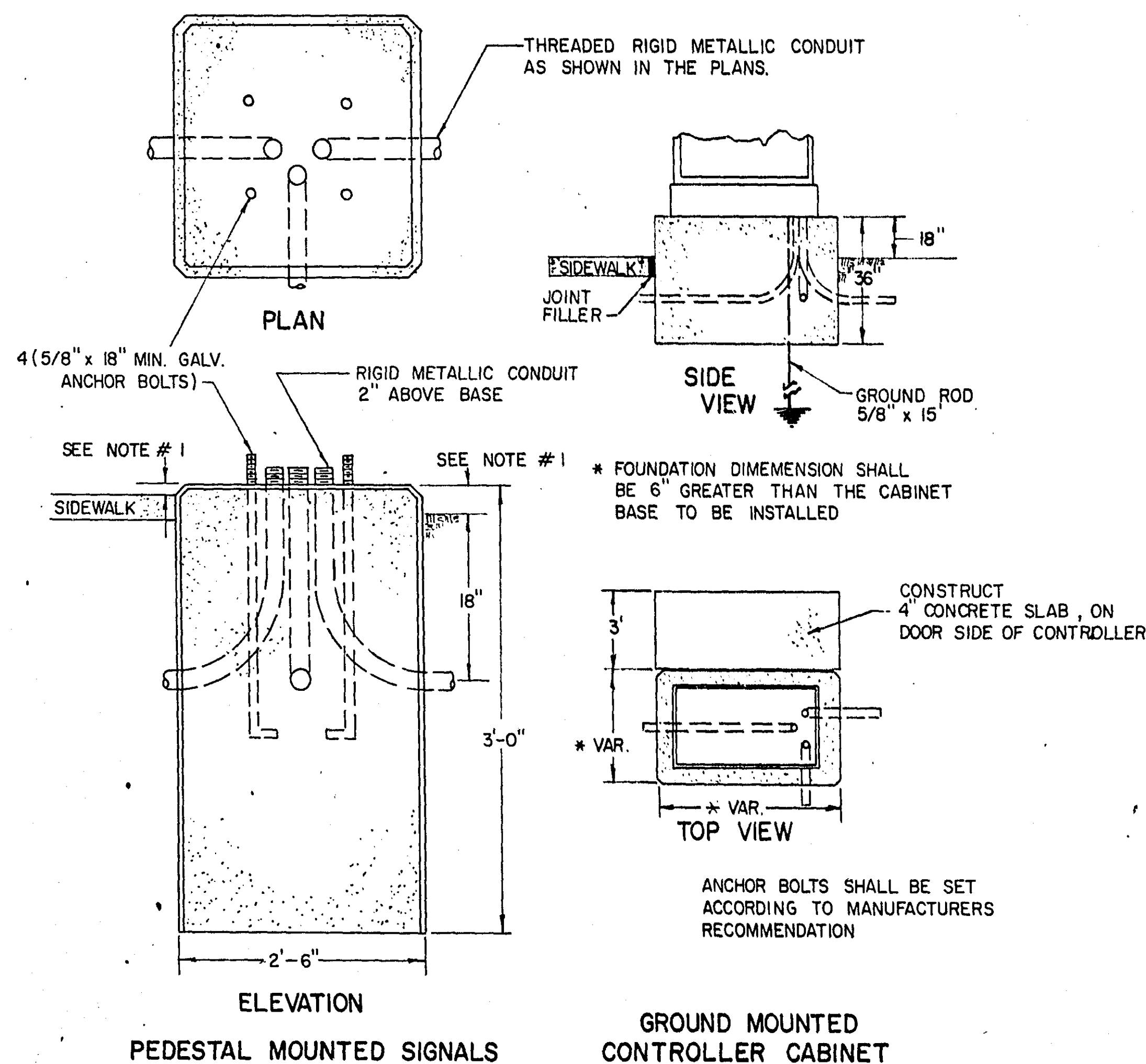


POLE FOR POWER CONNECTION



NOTE # 1

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



CONCRETE FOUNDATIONS

PRECAST CONCRETE HANDHOLE OR PULLBOX

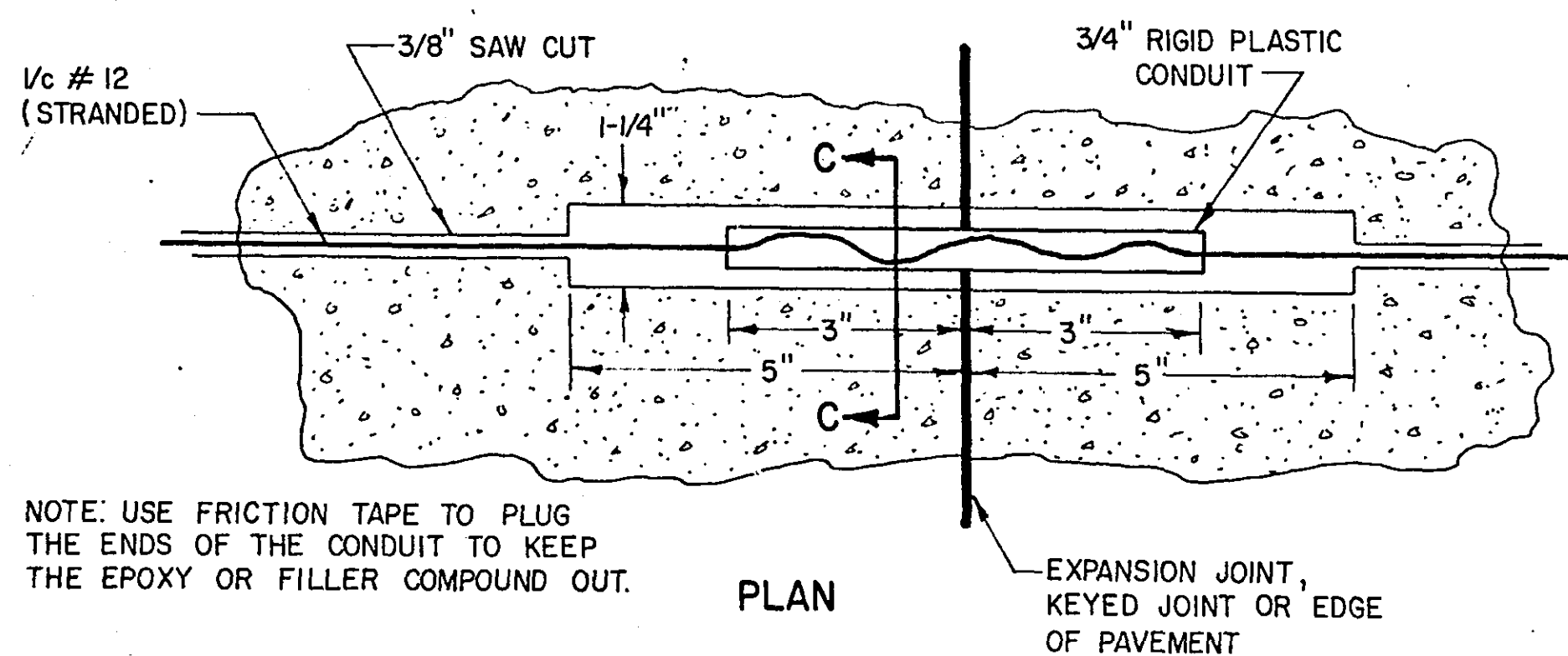
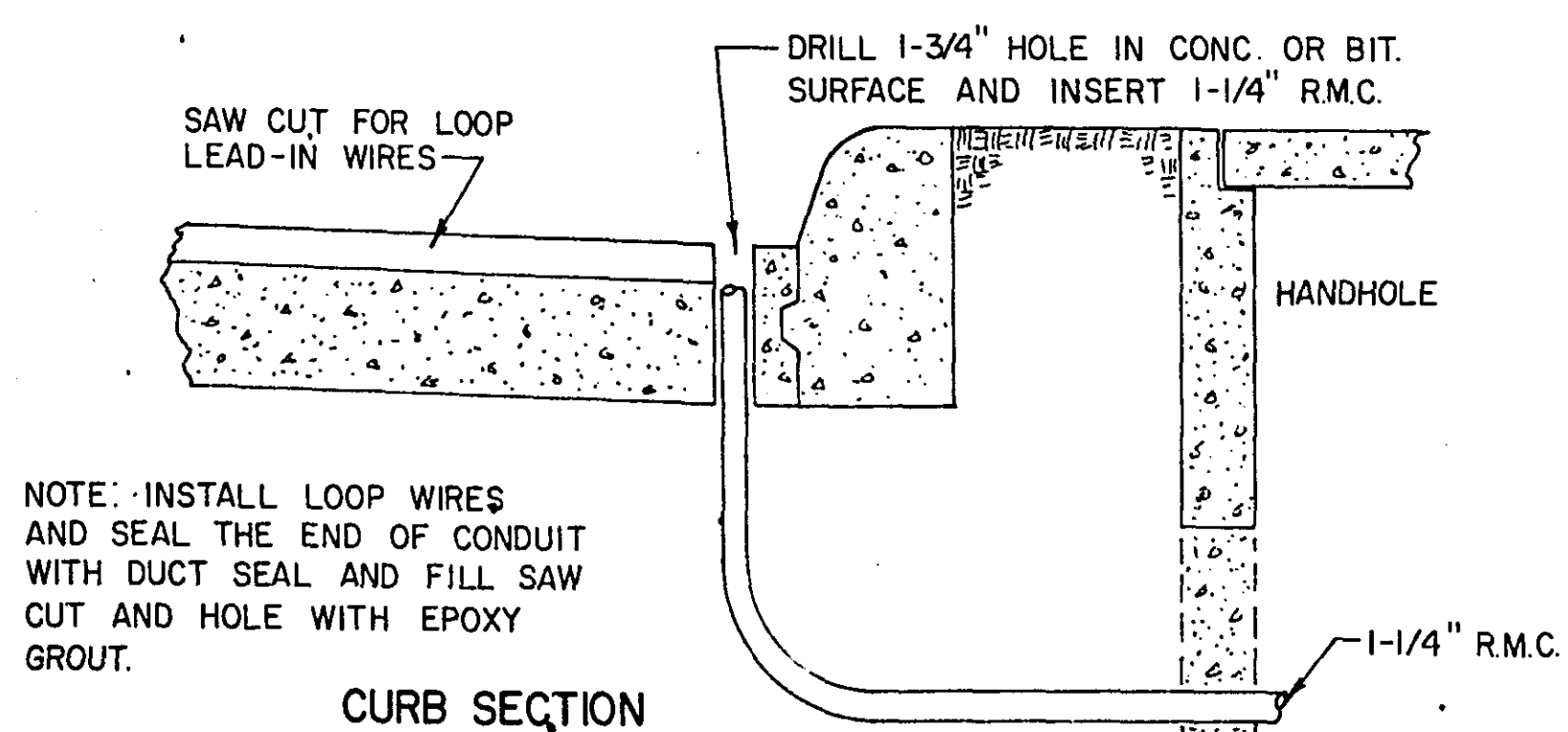
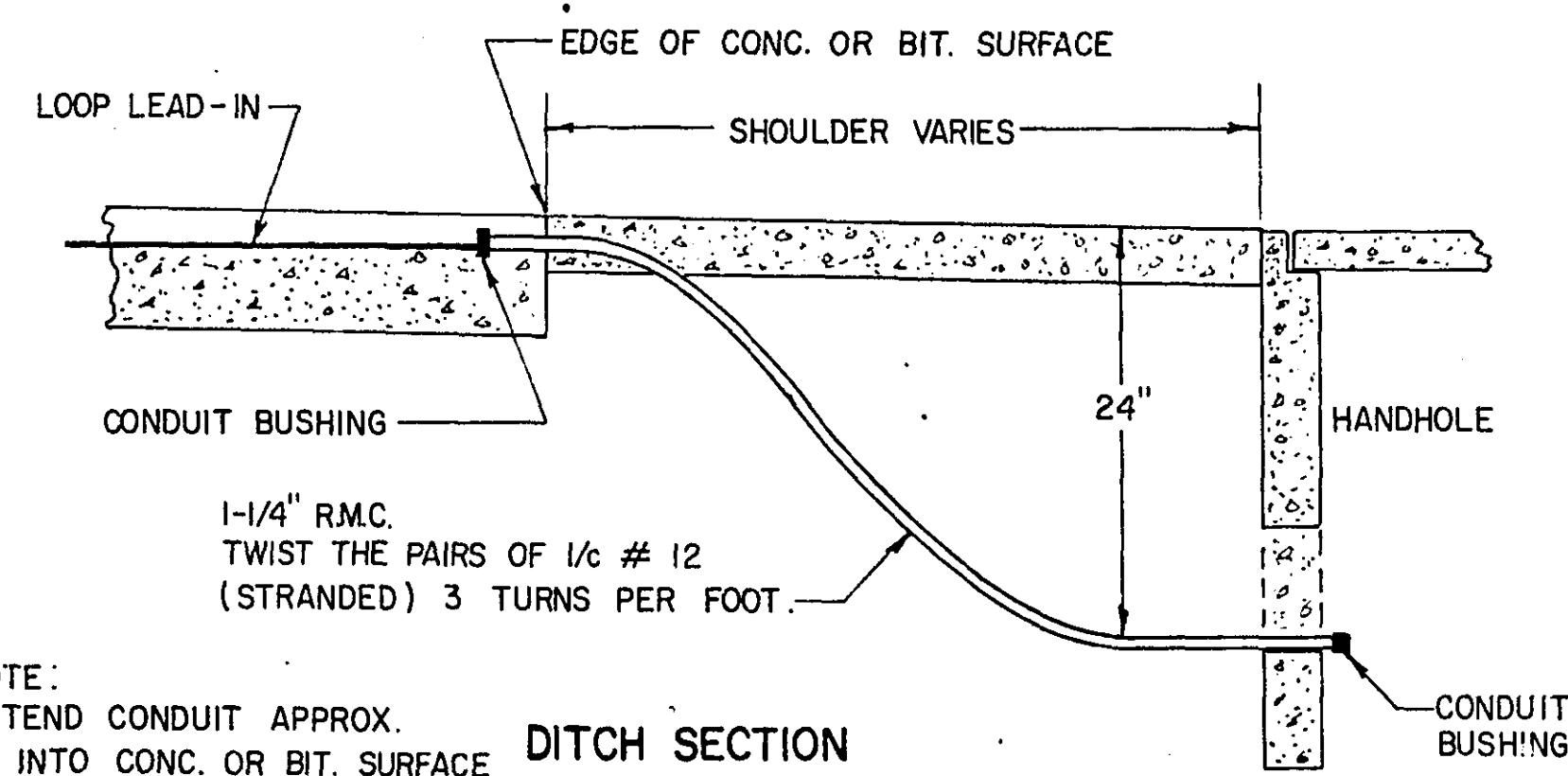
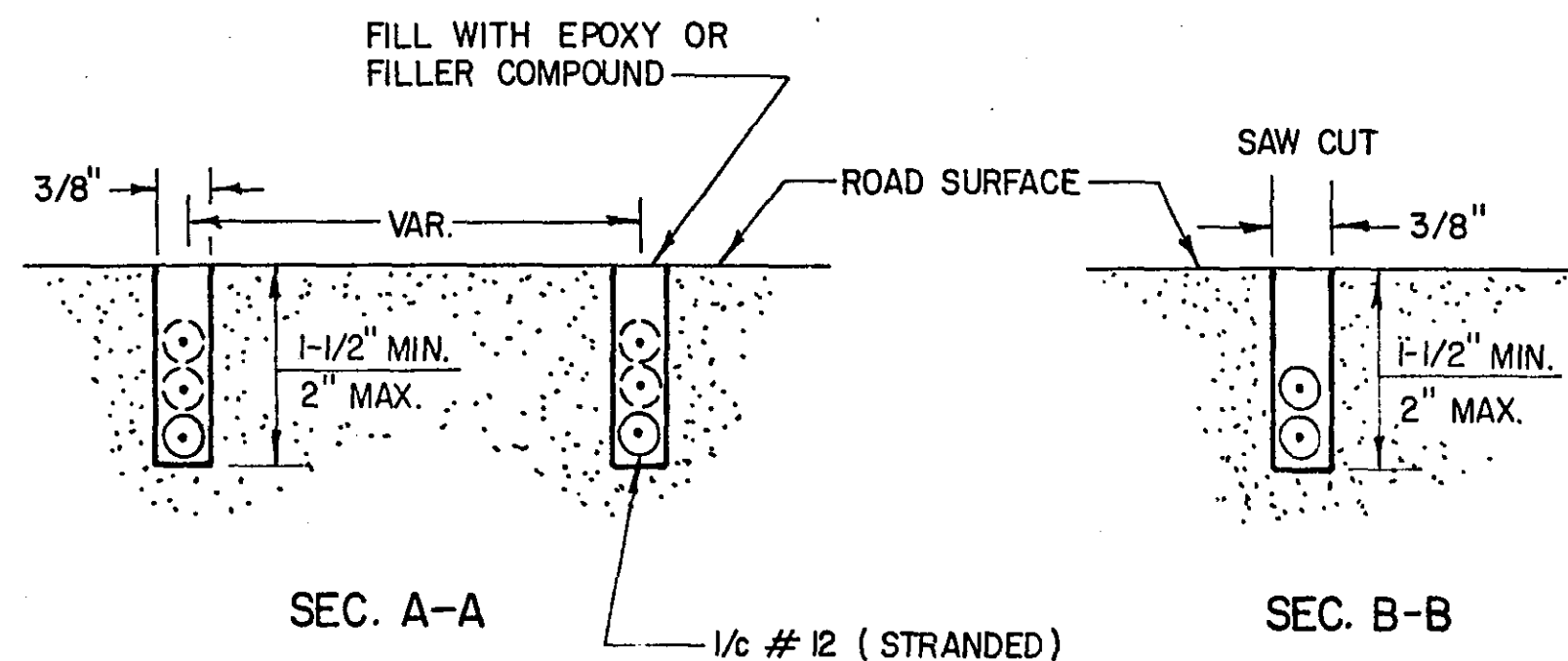
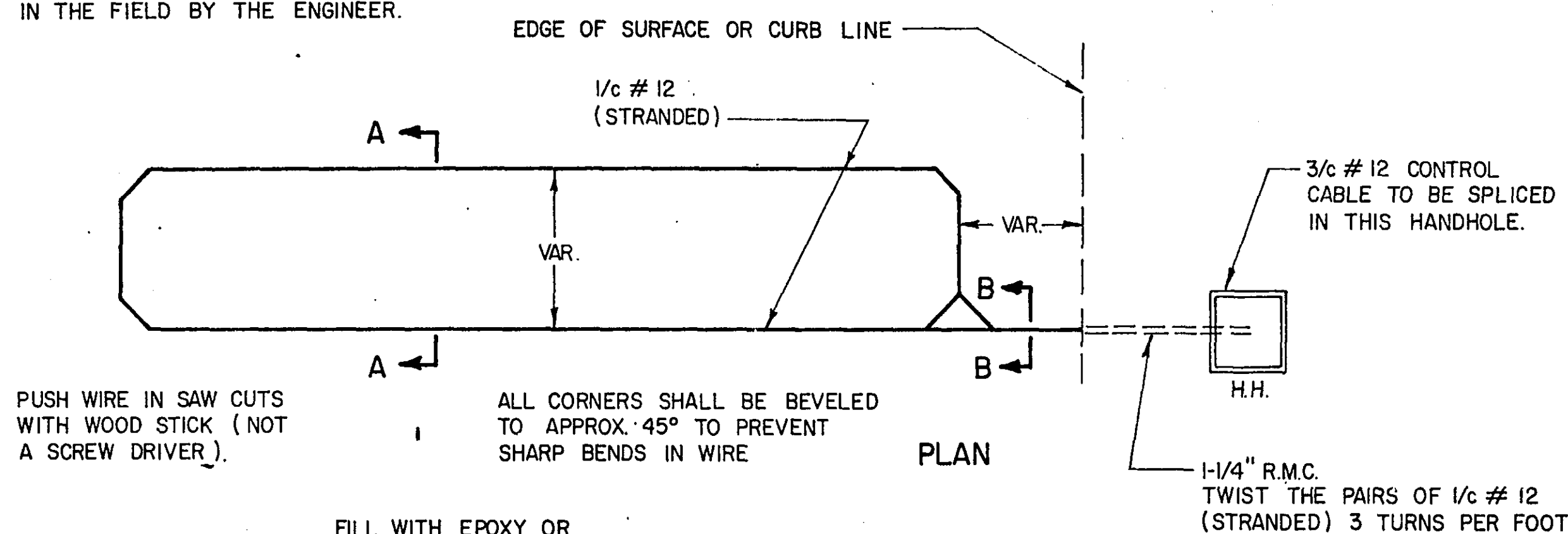
CO. PROJ. NO. 70-44-S

SHEET NO. 2 OF 6 SHEETS

17-114

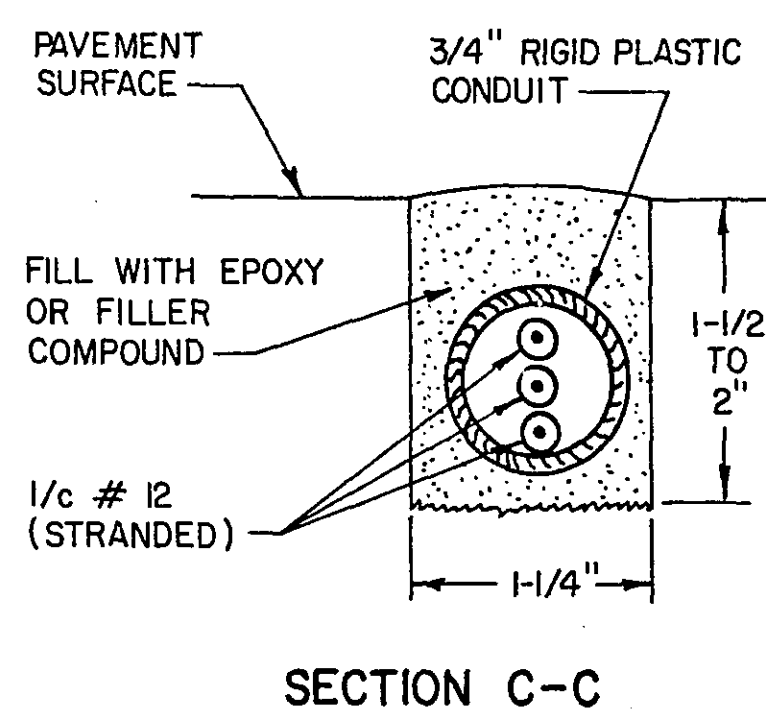
LOOP DETECTION INSTALLATION DETAIL NO. 2

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

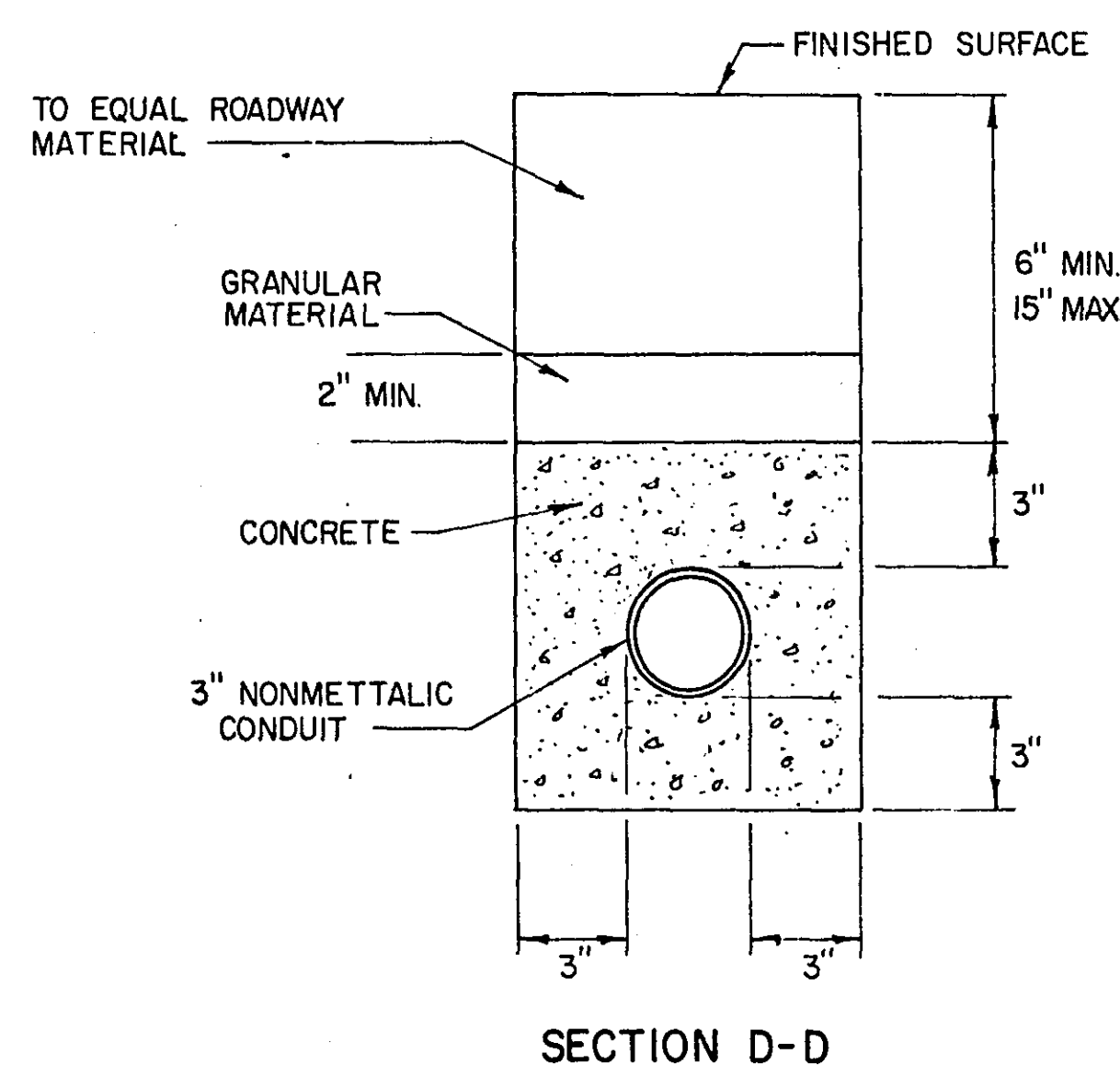
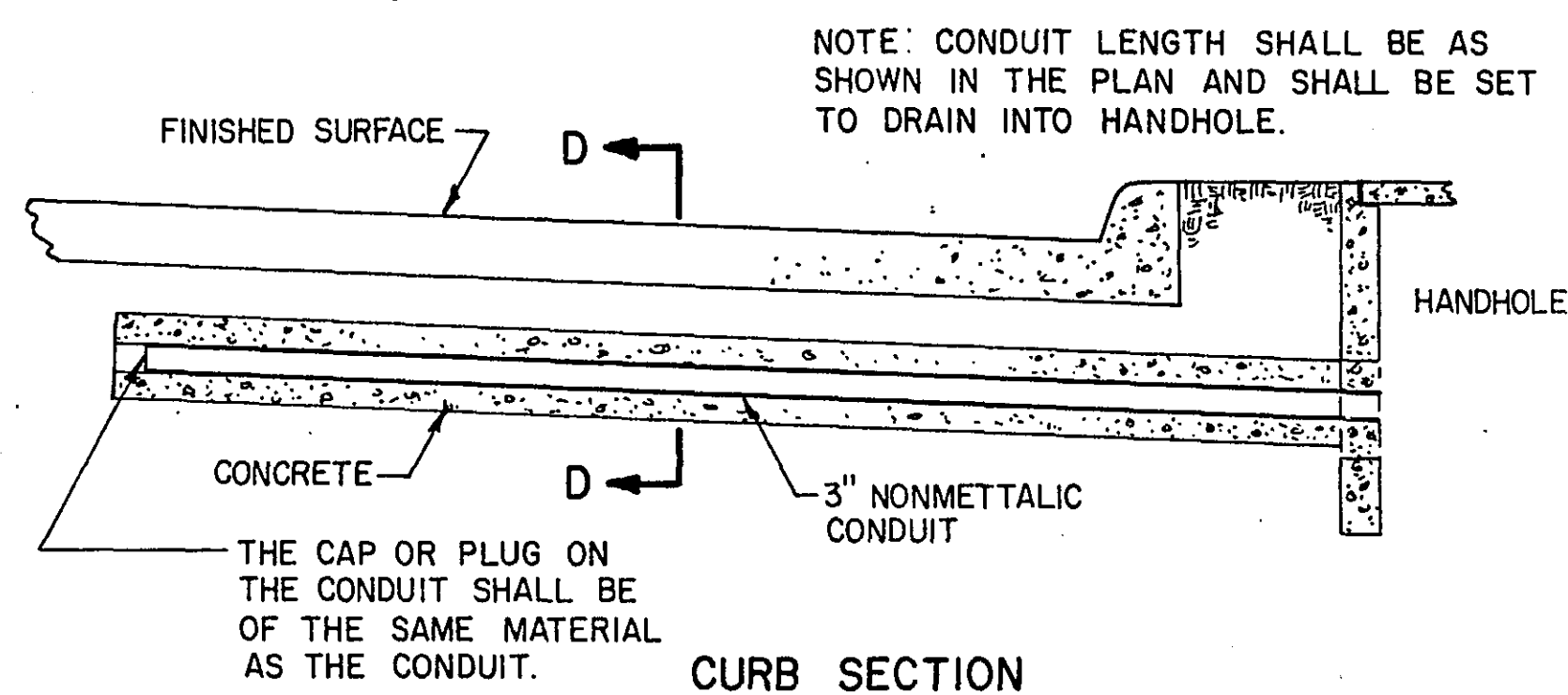


NOTE: USE FRICTION TAPE TO PLUG THE ENDS OF THE CONDUIT TO KEEP THE EPOXY OR FILLER COMPOUND OUT.

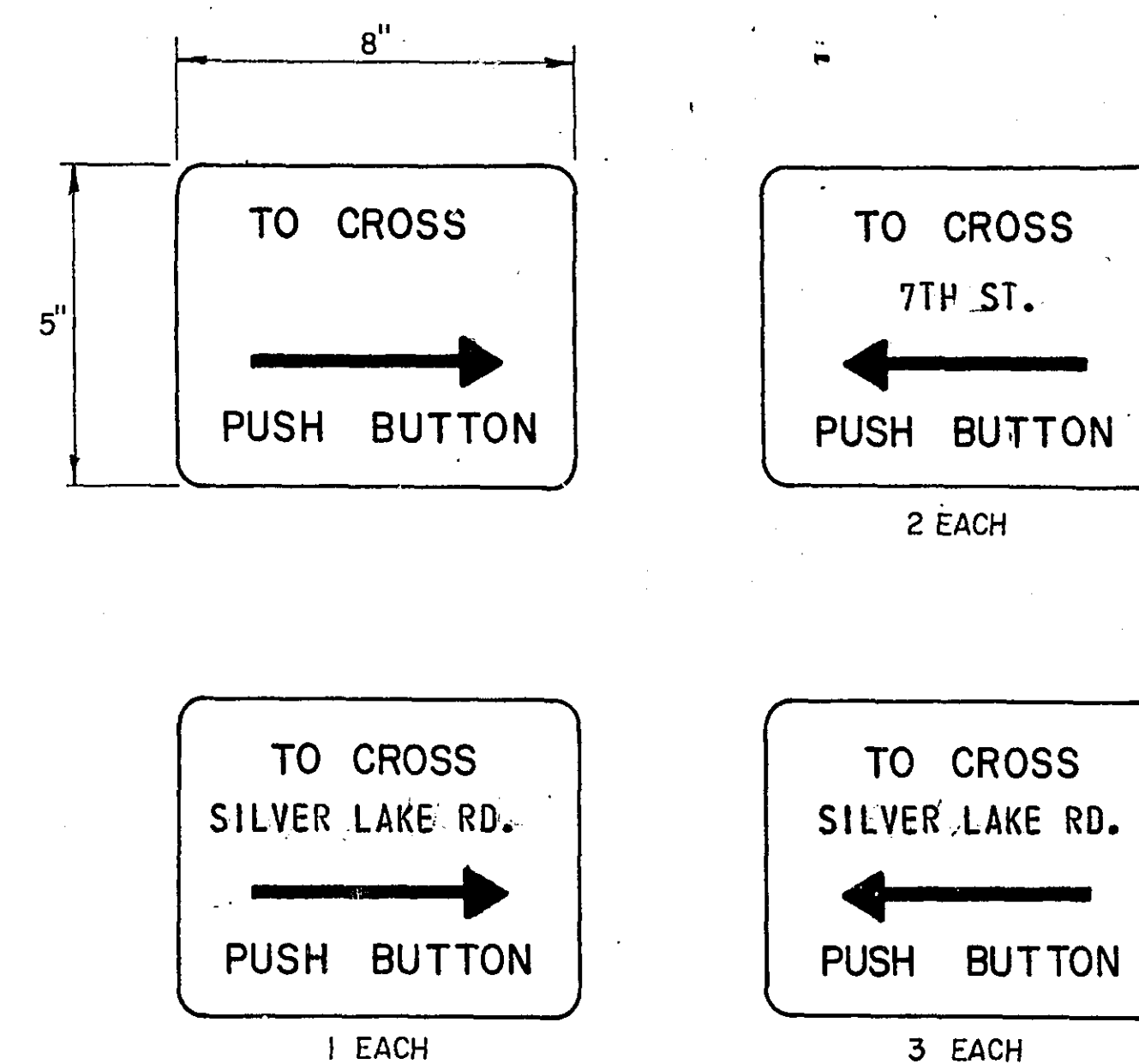
JOINT SLEEVE INSTALLATION
FOR LOOP DETECTORS



MAGNETIC VEHICLE DETECTOR INSTALLATION DETAIL NO. 4



PEDESTRIAN INSTRUCTION SIGNS DETAIL NO. 3



ABBREVIATIONS

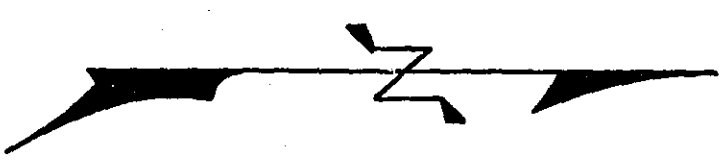
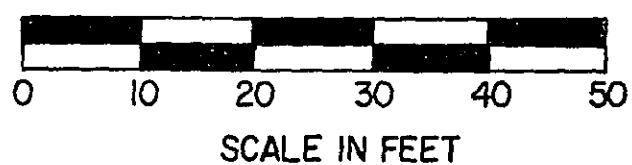
EQUIPMENT & INDICATIONS

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

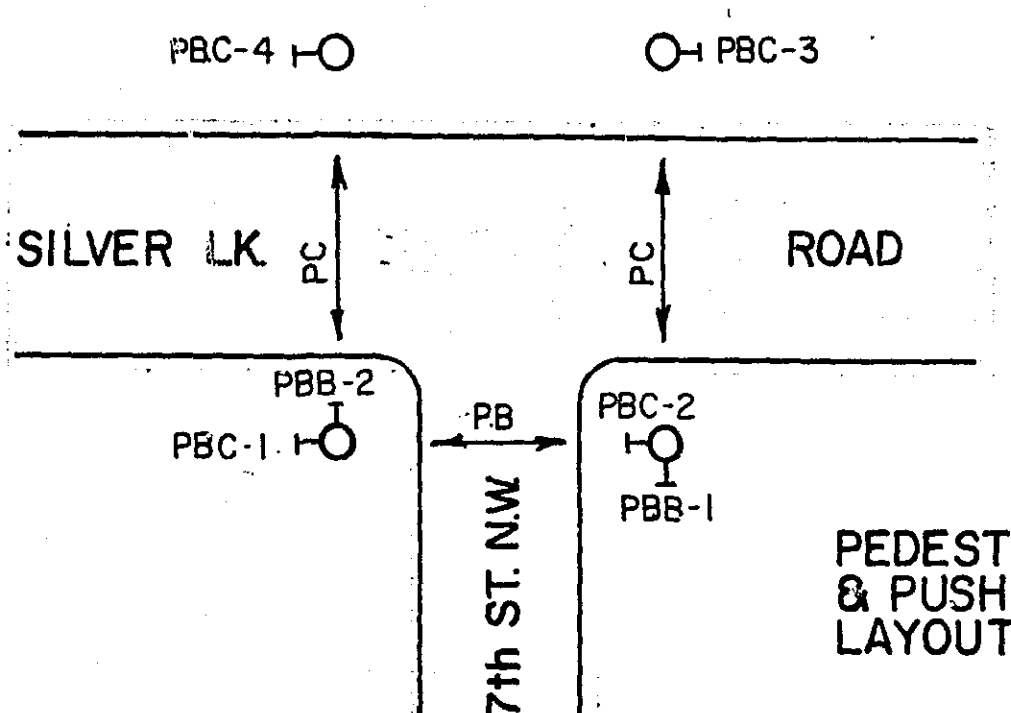
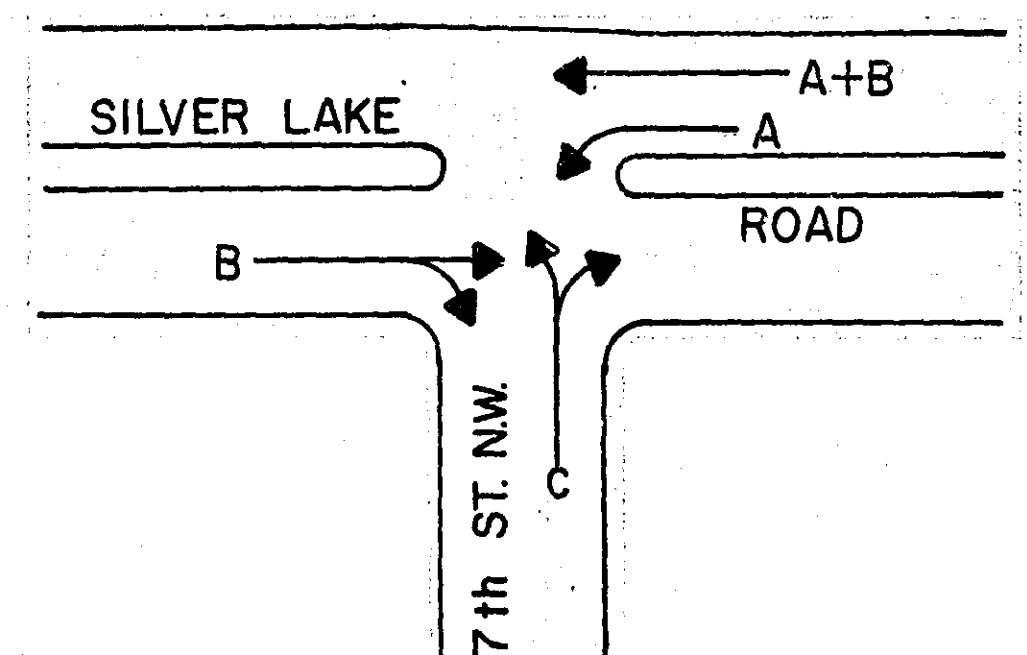
COLOR CODING OF CONDUCTORS

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



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.)

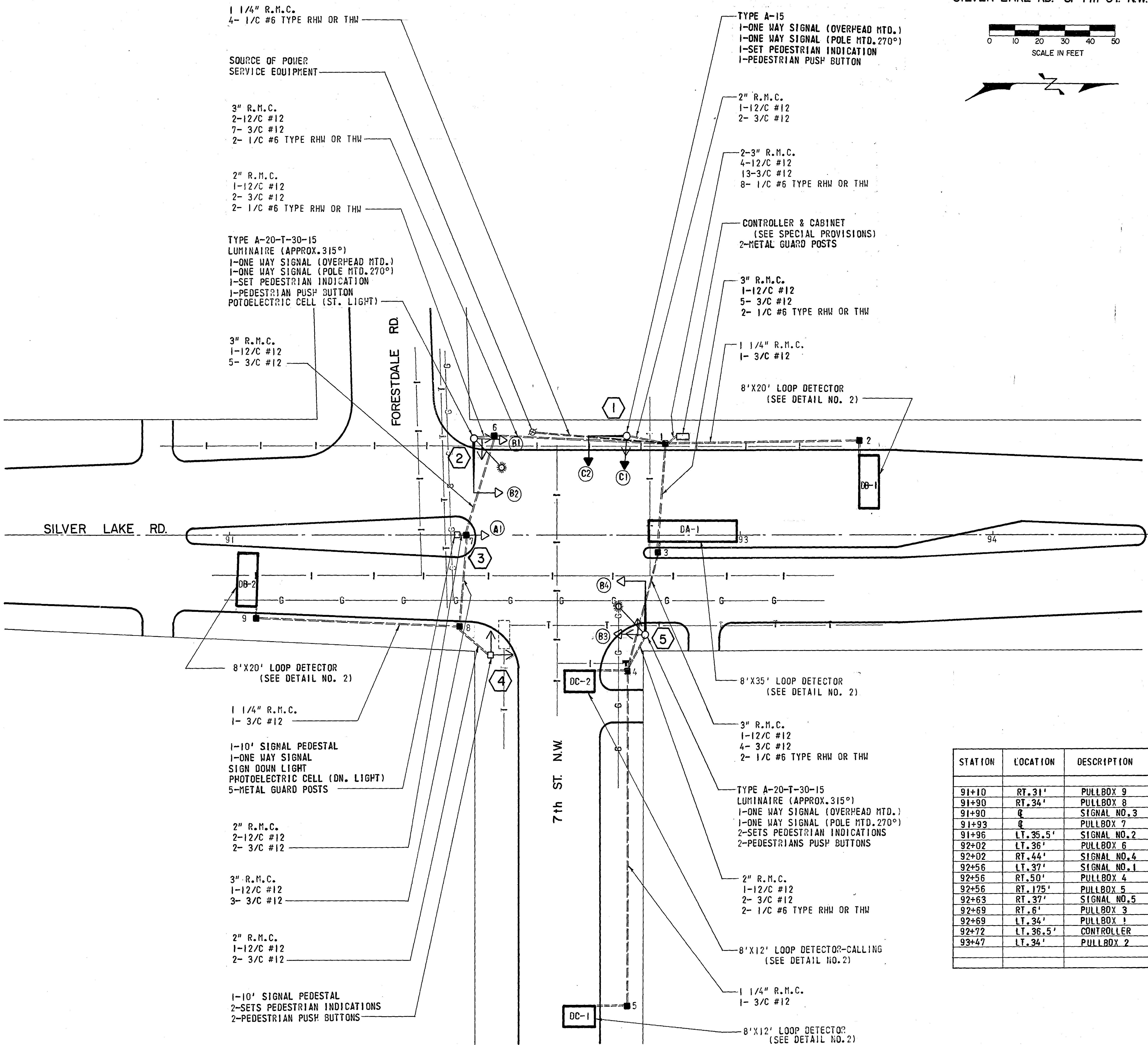
PHASING
DIAGRAM



PEDESTRIAN PHASING
& PUSH BUTTON
LAYOUT

FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
B1	A+B	R	12"	12"	-	-	12"	-
B2	A+B	R	12"	12"	-	-	12"	-
B3	B	R	12"	12"	12"	-	-	-
B4	B	R	12"	12"	12"	-	-	-
C1	C	R	12"	12"	12"	-	-	-
C2	C	R	12"	12"	12"	-	-	-
* A1	A	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS



STATION	LOCATION	DESCRIPTION
91+10	RT. 31'	PULLBOX 9
91+90	RT. 34'	PULLBOX 8
91+90	Q	SIGNAL NO. 3
91+93	Q	PULLBOX 7
91+96	LT. 35.5'	SIGNAL NO. 2
92+02	LT. 36'	PULLBOX 6
92+02	RT. 44'	SIGNAL NO. 4
92+56	LT. 37'	SIGNAL NO. 1
92+56	RT. 50'	PULLBOX 4
92+56	RT. 175'	PULLBOX 5
92+63	RT. 37'	SIGNAL NO. 5
92+69	RT. 6'	PULLBOX 3
92+69	LT. 34'	PULLBOX 1
92+72	LT. 36.5'	CONTROLLER
93+47	LT. 34'	PULLBOX 2

