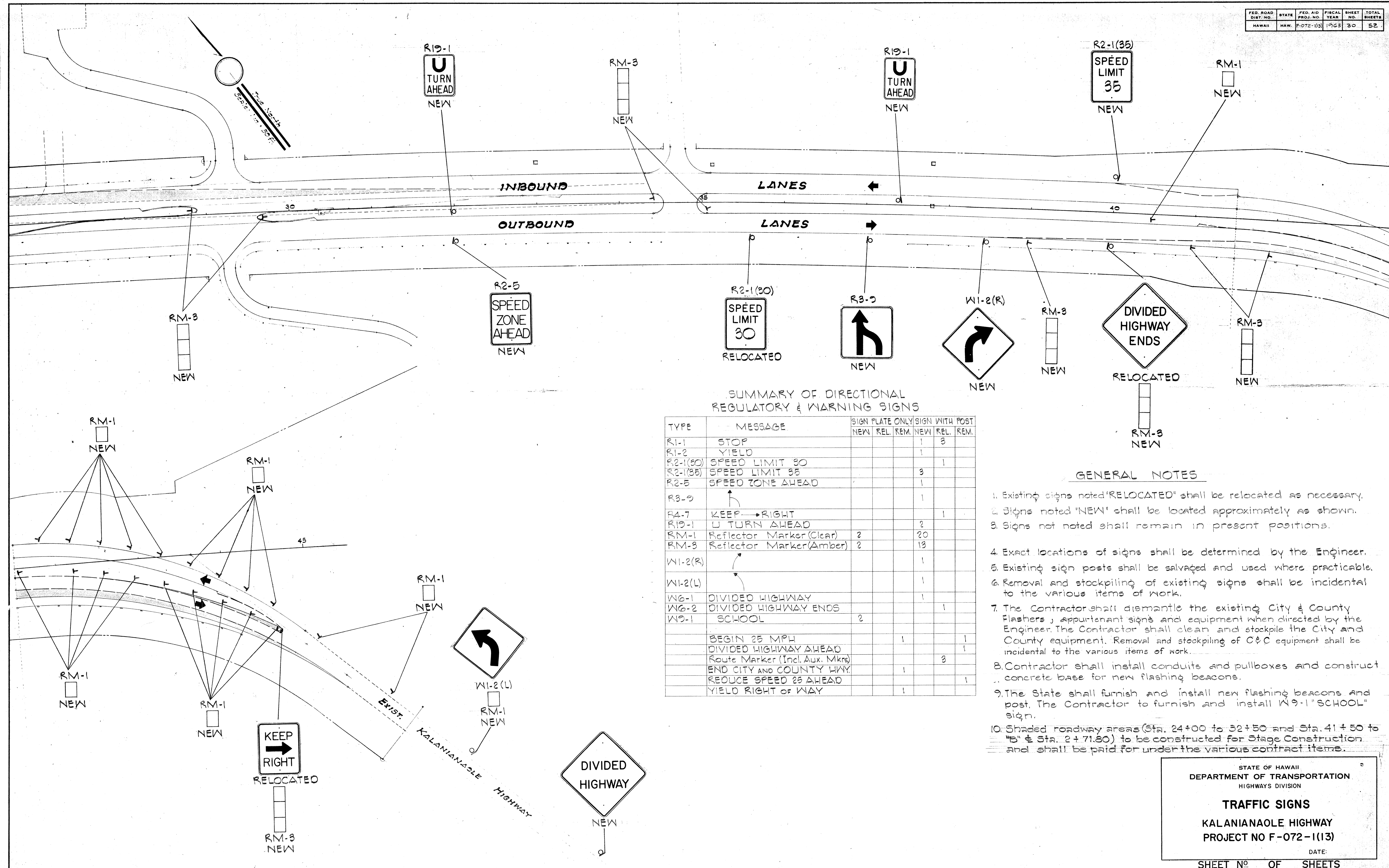




SUMMARY OF DIRECTIONAL REGULATORY & WARNING SIGNS

TYPE	MESSAGE	SIGN PLATE ONLY SIGN WITH POST					
		NEW	REL.	REM.	NEW	REL.	REM.
R1-1	STOP				1	3	
R1-2	YIELD				1		
R2-1(30)	SPEED LIMIT 30					1	
R2-1(35)	SPEED LIMIT 35				3		
R2-5	SPEED ZONE AHEAD				1		
R3-9	KEEP RIGHT				1		
R19-1	U TURN AHEAD				2		
RM-1	Reflector Marker (Clear)	2			20		
RM-3	Reflector Marker (Amber)	2			13		
W1-2(R)					1		
W1-2(L)					1		
W6-1	DIVIDED HIGHWAY				1		
W6-2	DIVIDED HIGHWAY ENDS					1	
W9-1	SCHOOL	2					
	BEGIN 25 MPH				1		1
	DIVIDED HIGHWAY AHEAD						1
	Route Marker (Incl. Aux. Mkr)					3	
	END CITY AND COUNTY HWY.				1		
	REDUCE SPEED 25 AHEAD						1
	YIELD RIGHT OF WAY				1		

GENERAL NOTES

- Existing signs noted "RELOCATED" shall be relocated as necessary.
- Signs noted "NEW" shall be located approximately as shown.
- Signs not noted shall remain in present positions.
- Exact locations of signs shall be determined by the Engineer.
- Existing sign posts shall be salvaged and used where practicable.
- Removal and stockpiling of existing signs shall be incidental to the various items of work.
- The Contractor shall dismantle the existing City & County Flashers, appurtenant signs and equipment when directed by the Engineer. The Contractor shall clean and stockpile the City and County equipment. Removal and stockpiling of C&C equipment shall be incidental to the various items of work.
- Contractor shall install conduits and pullboxes and construct concrete base for new flashing beacons.
- The State shall furnish and install new flashing beacons and post. The Contractor to furnish and install W9-1 "SCHOOL" sign.
- Shaded roadway areas (Sta. 24+00 to 32+50 and Sta. 41+50 to 49+00) to be constructed for Stage Construction and shall be paid for under the various contract items.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNS

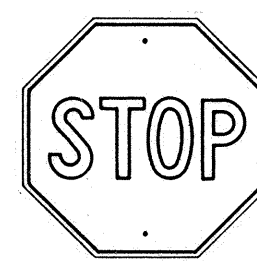
KALANIANA'OLE HIGHWAY
PROJECT NO F-072-1(13)

DATE:

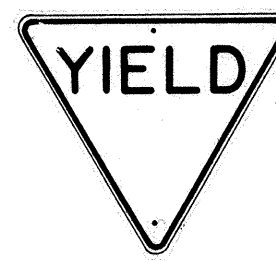
SHEET NO. 30 OF 52 SHEETS

SURVEY PLOTTED BY: DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____

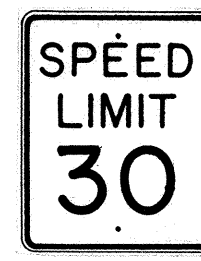
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-(113)	1963	31	52



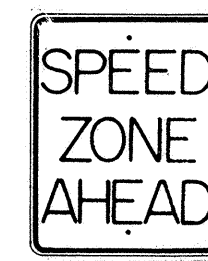
RI-1 30" x 30"



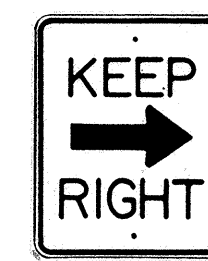
RI-2 36"x36"x36"



R2-1(30) 24"x30"



R2-5 24" x 30"



R4-7(R) 24" x 30"



WI-2(R) 30" x 30"



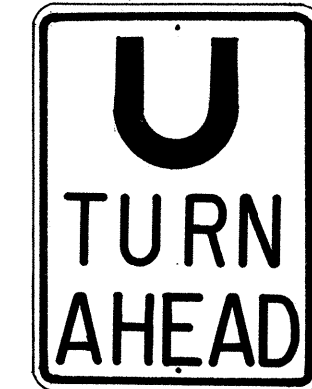
W6-1 36"x36"



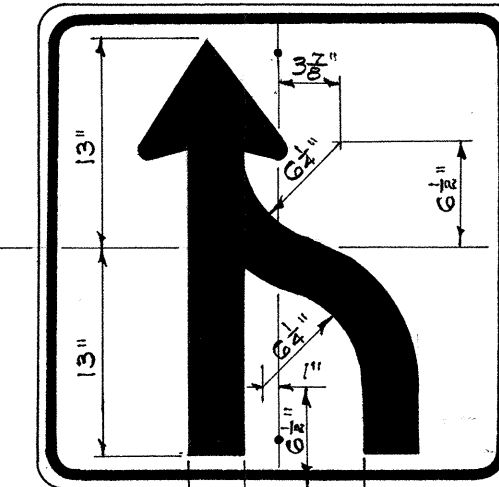
W6-2 36" x 36"



W9-1 30" x 30"



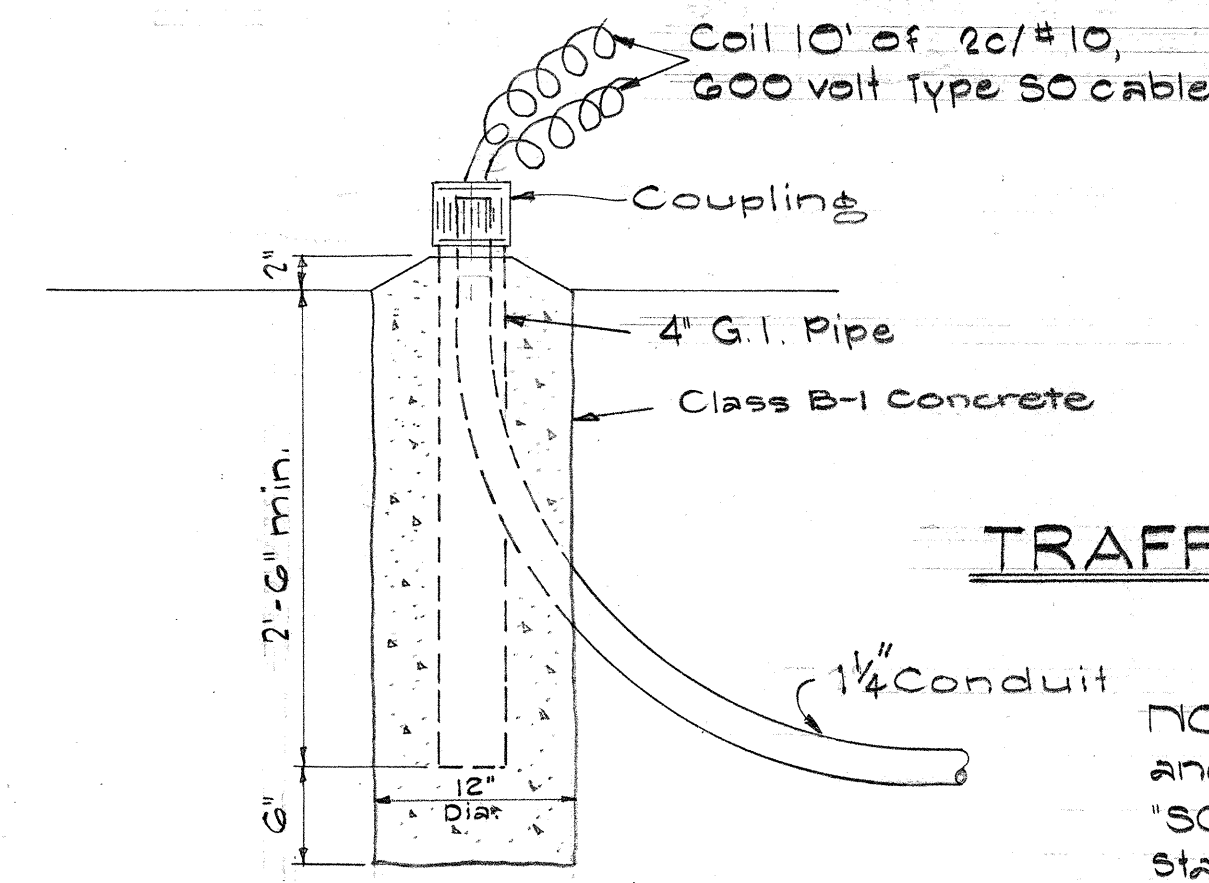
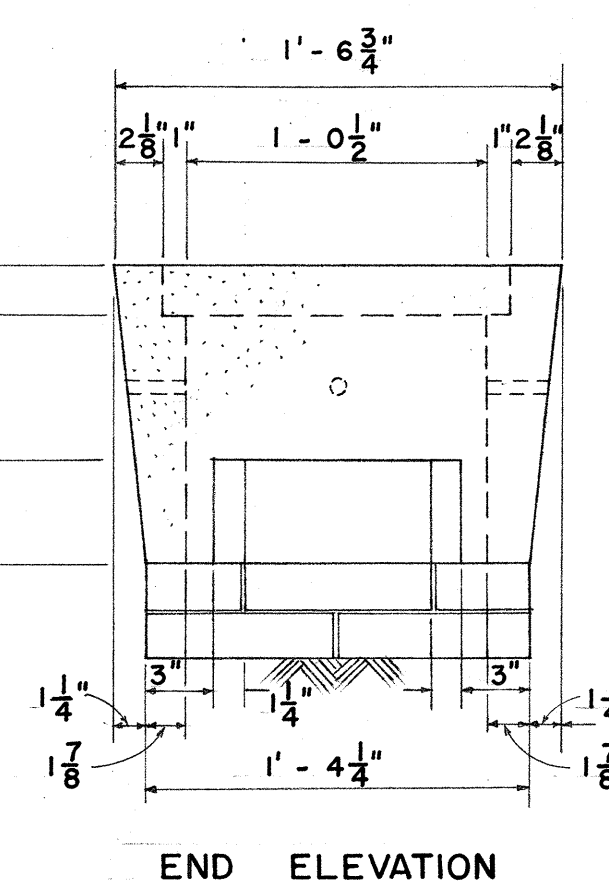
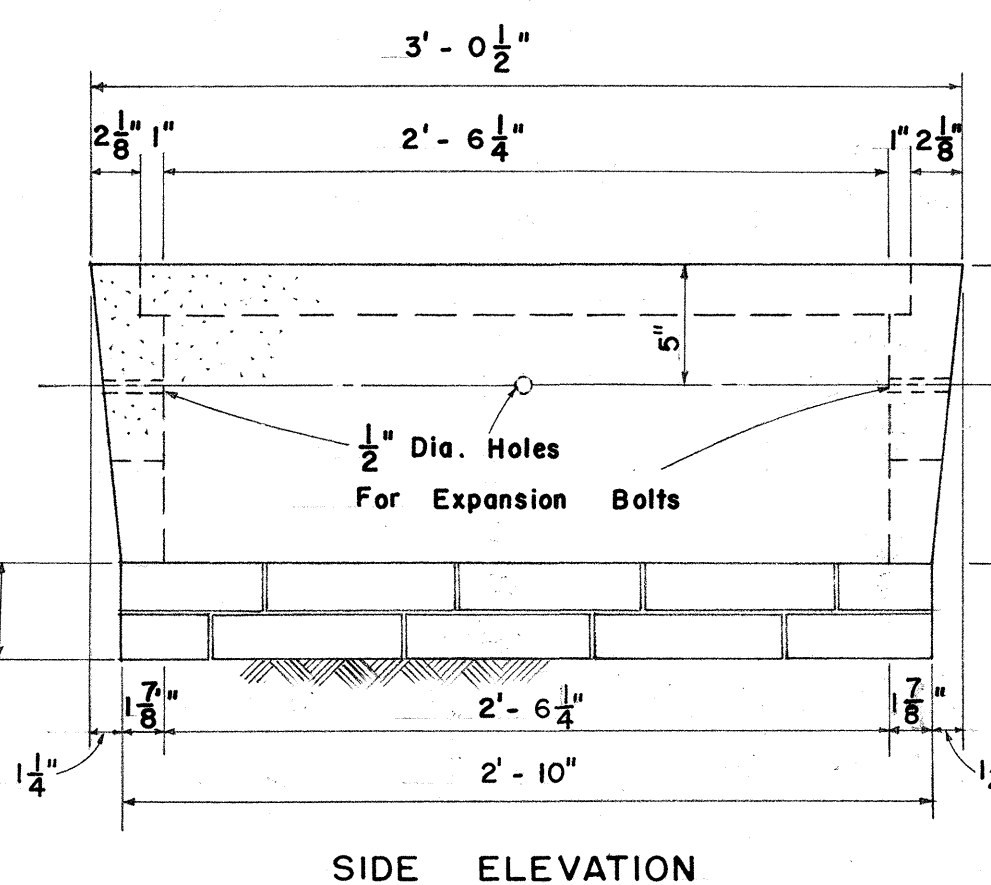
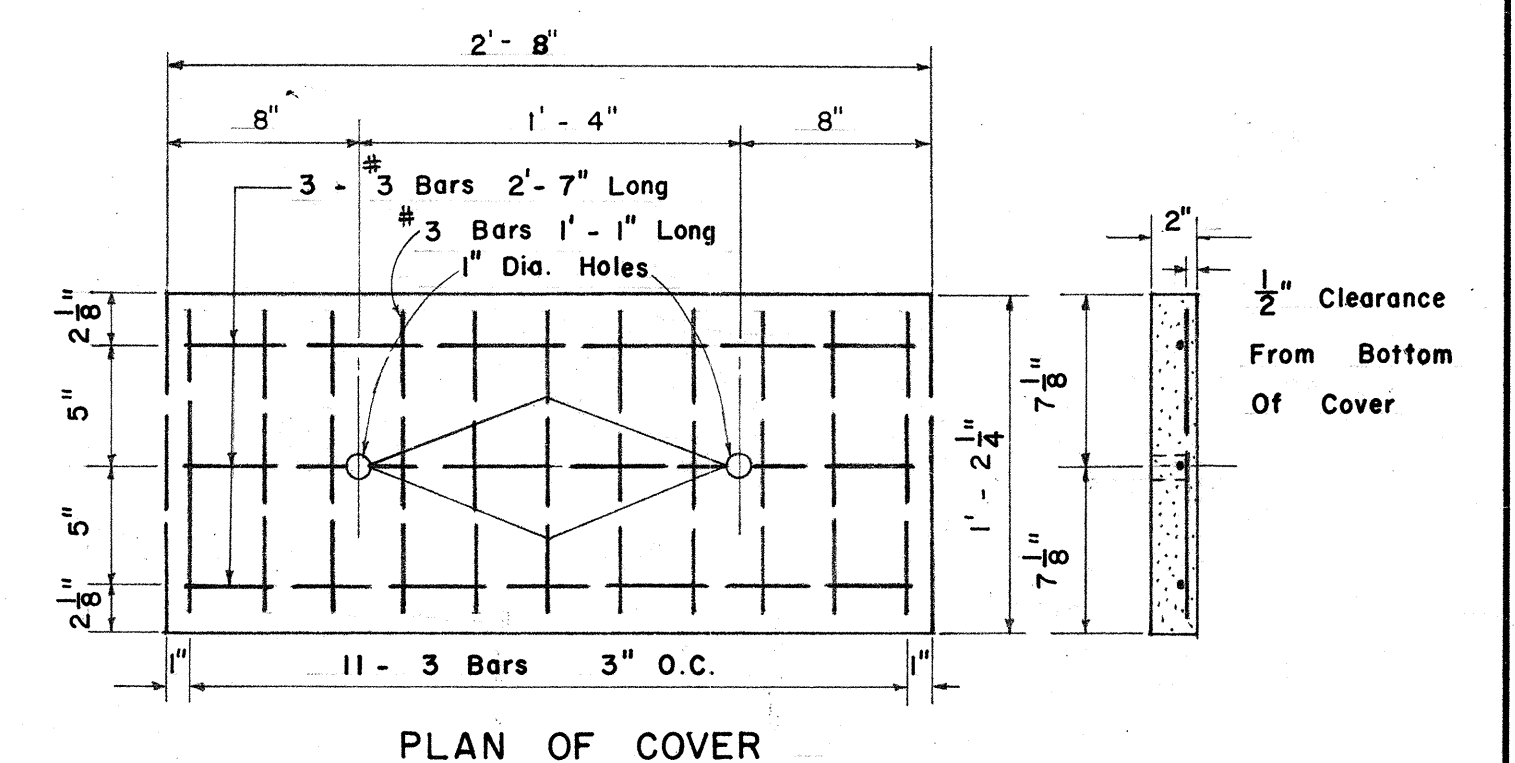
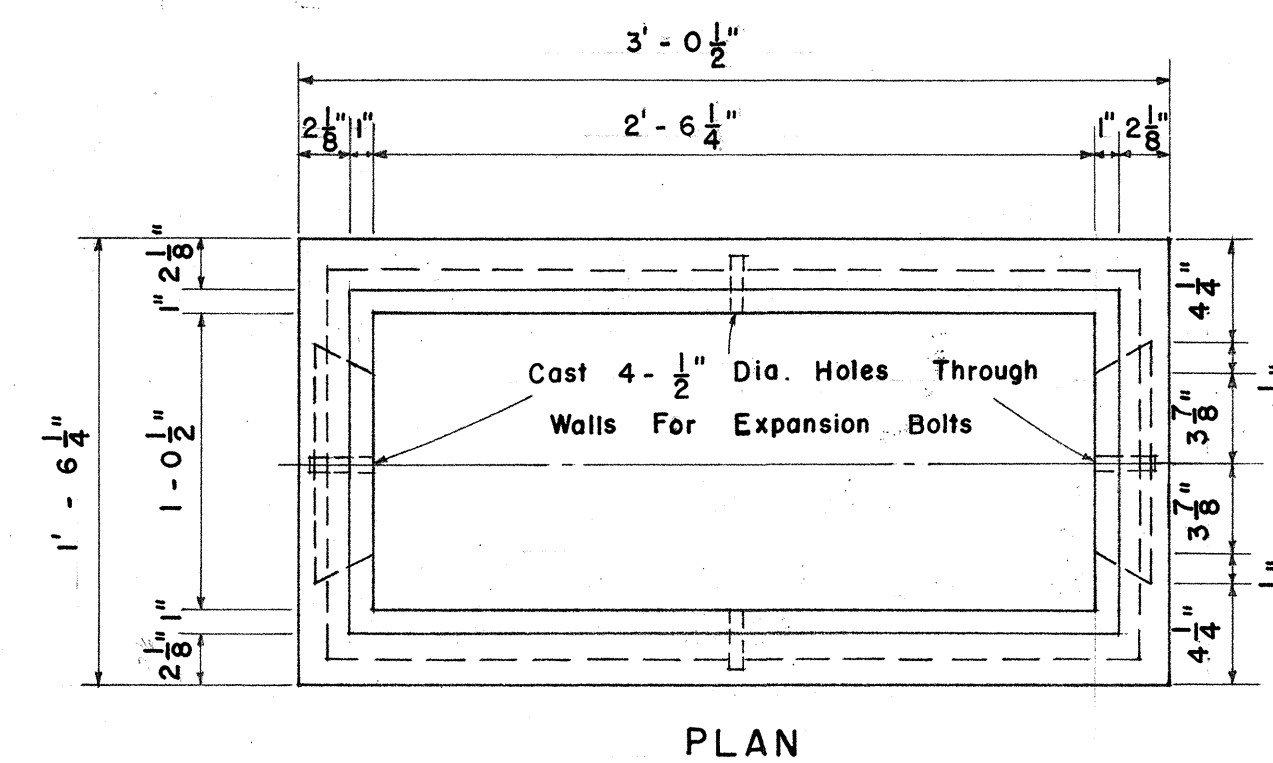
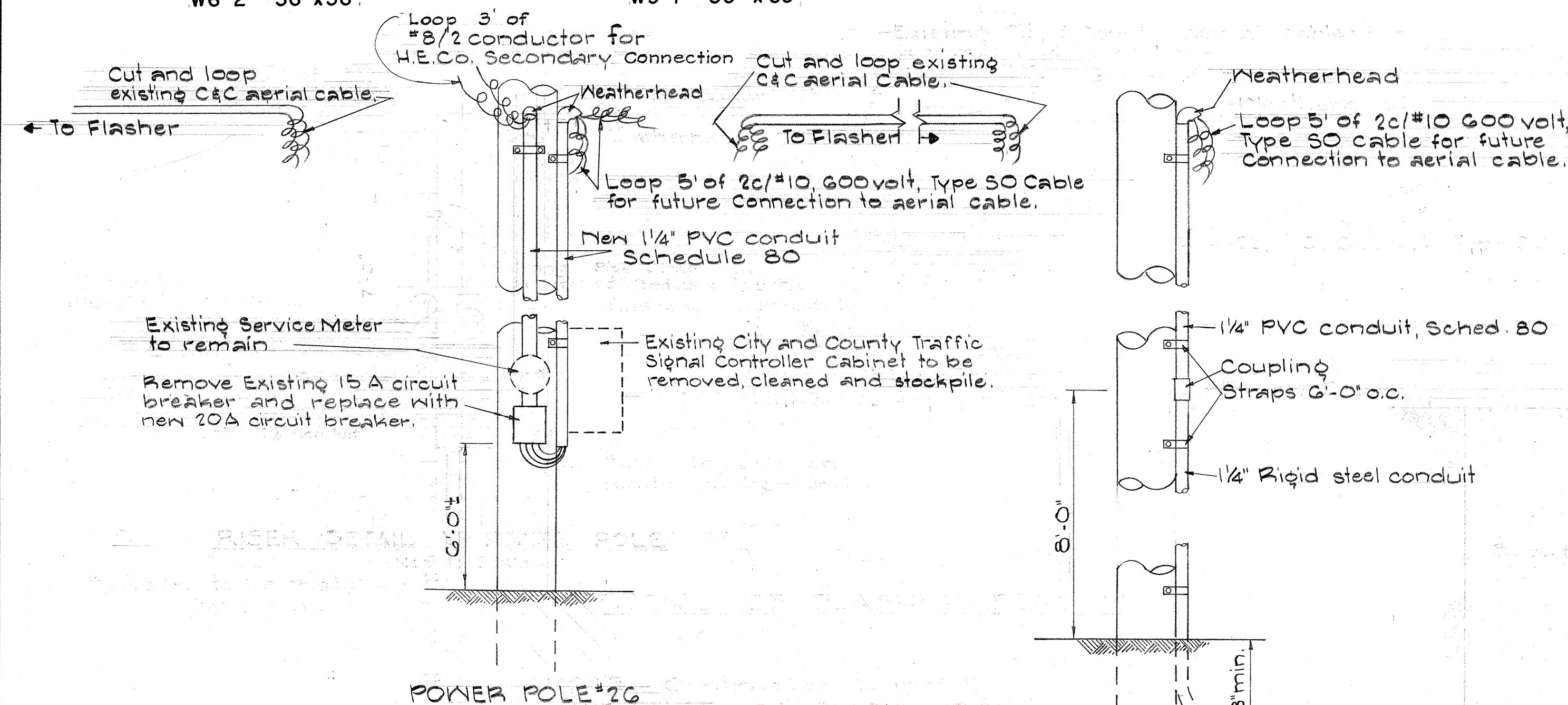
R 19 - 1 18" x 24"



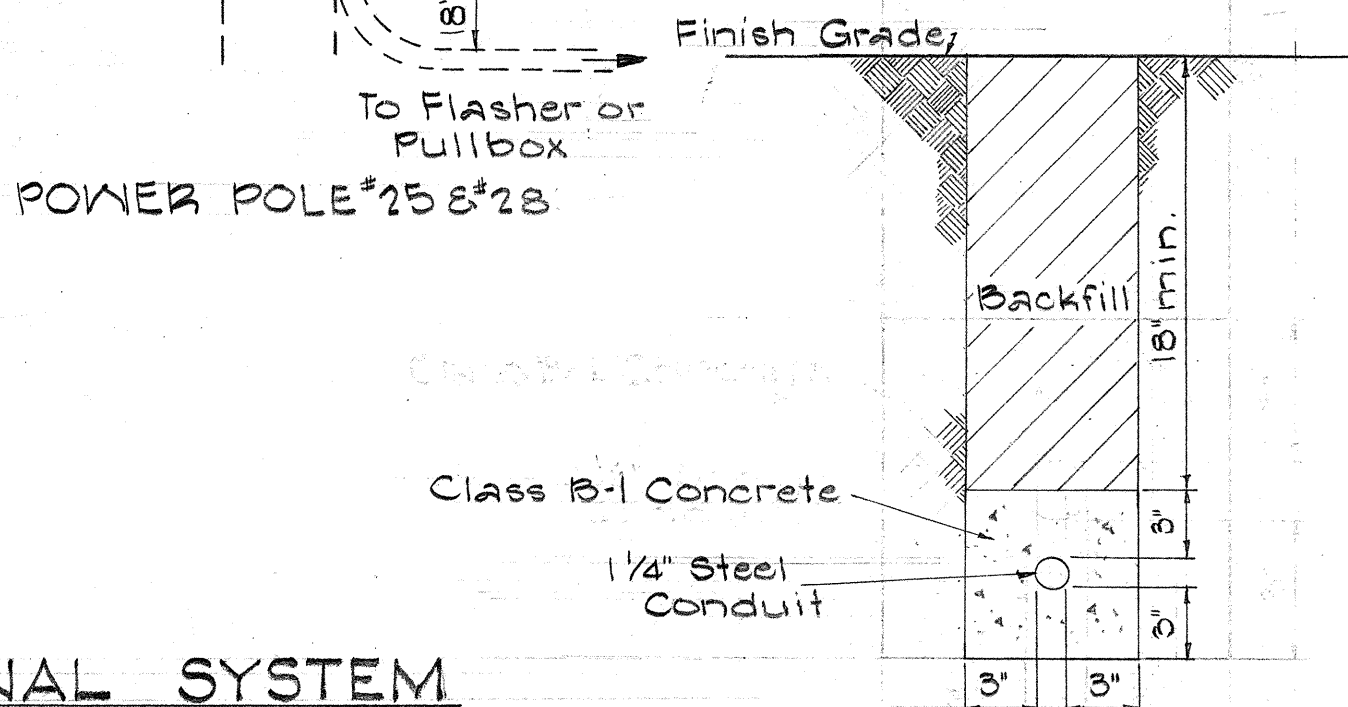
R 3 - 9 30" x 30"

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961 unless otherwise specified.
2. All regulatory & warning signs shall be reflectorized unless otherwise specified.
3. All regulatory & warning signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise noted.
4. For R2 signs, number in () indicates speed and shall be as shown on the plans.
5. (R) or (L) indicates right or left and shall be as shown on the plans.



TRAFFIC SIGNAL SYSTEM



NOTE: Contractor shall install foundation and conduit up to coupling and KY9-1 "SCHOOL" sign. (See Special Provisions), State Maintenance Section to furnish and install flashing beacon and post.

DETAIL OF CONCRETE ENCASED CONDUIT

NOTE: Direct burial conduits shall have a minimum cover of 18 inches.

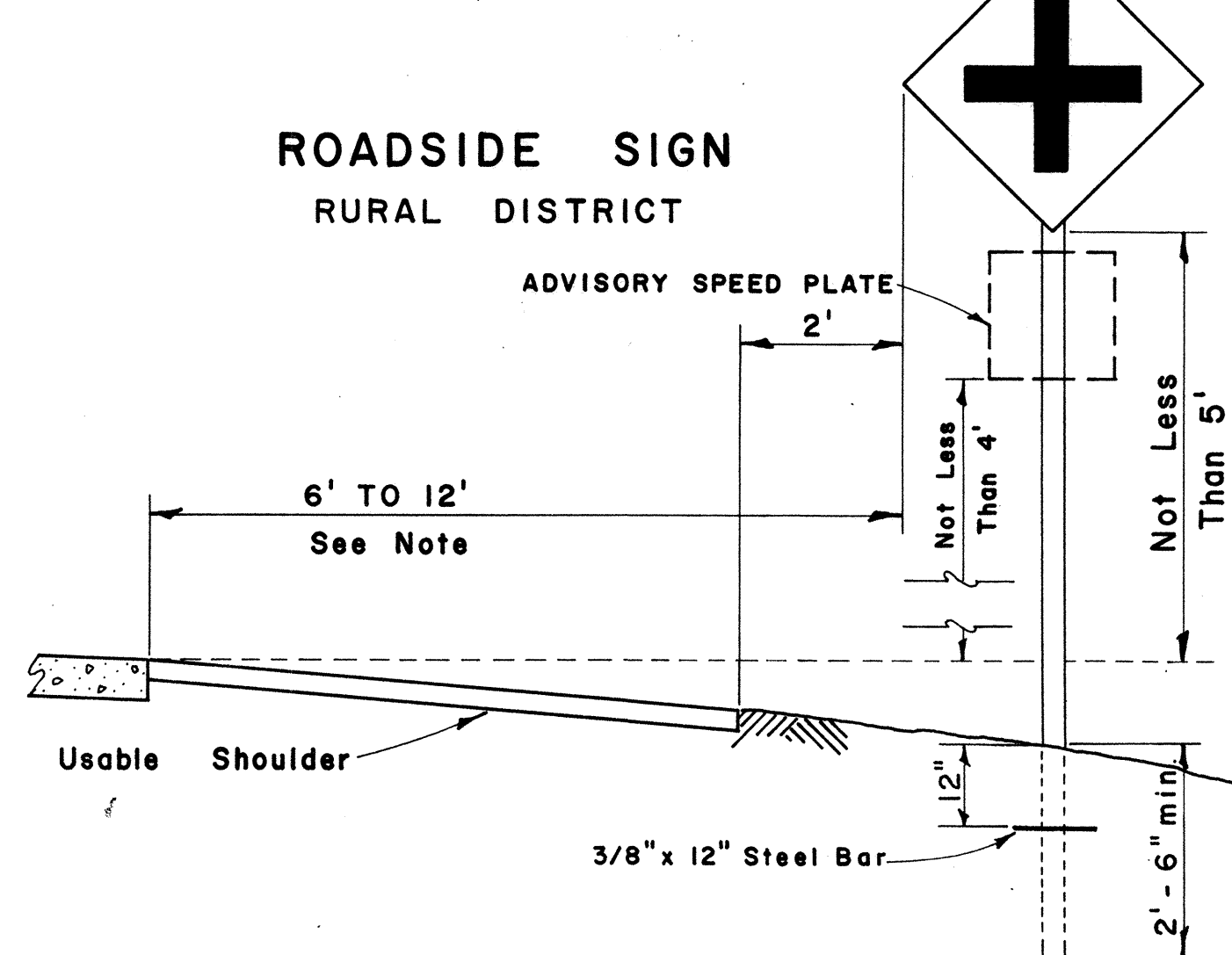
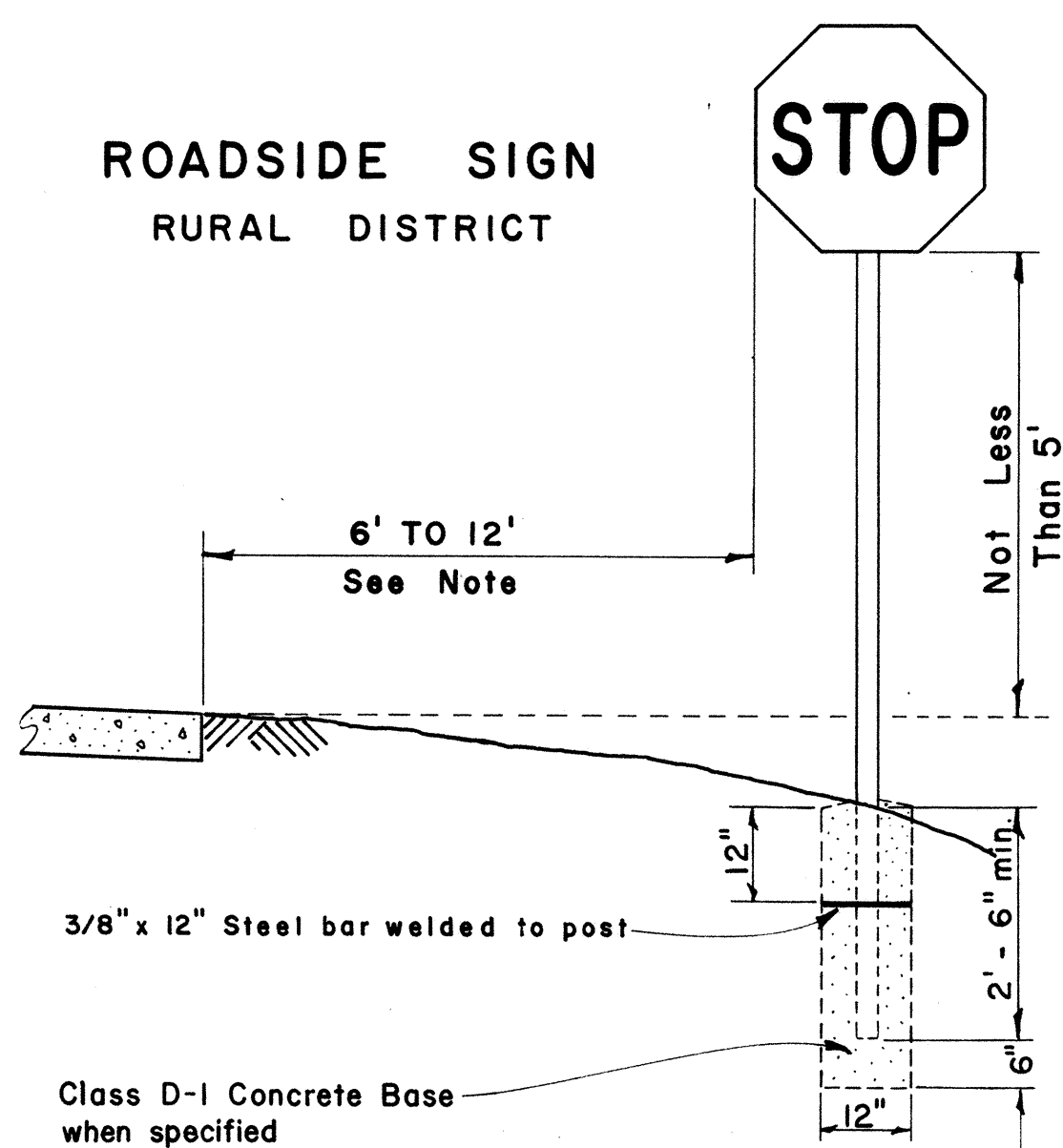
TYPE C PULLBOX
Scale $\frac{1}{8}'' = 1'$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**REGULATORY & WARNING
SIGN DETAILS**
AND
MISC. TRAFFIC DETAILS
KALANIANA'OLE HIGHWAY
PROJECT NO. F-072-1(13)

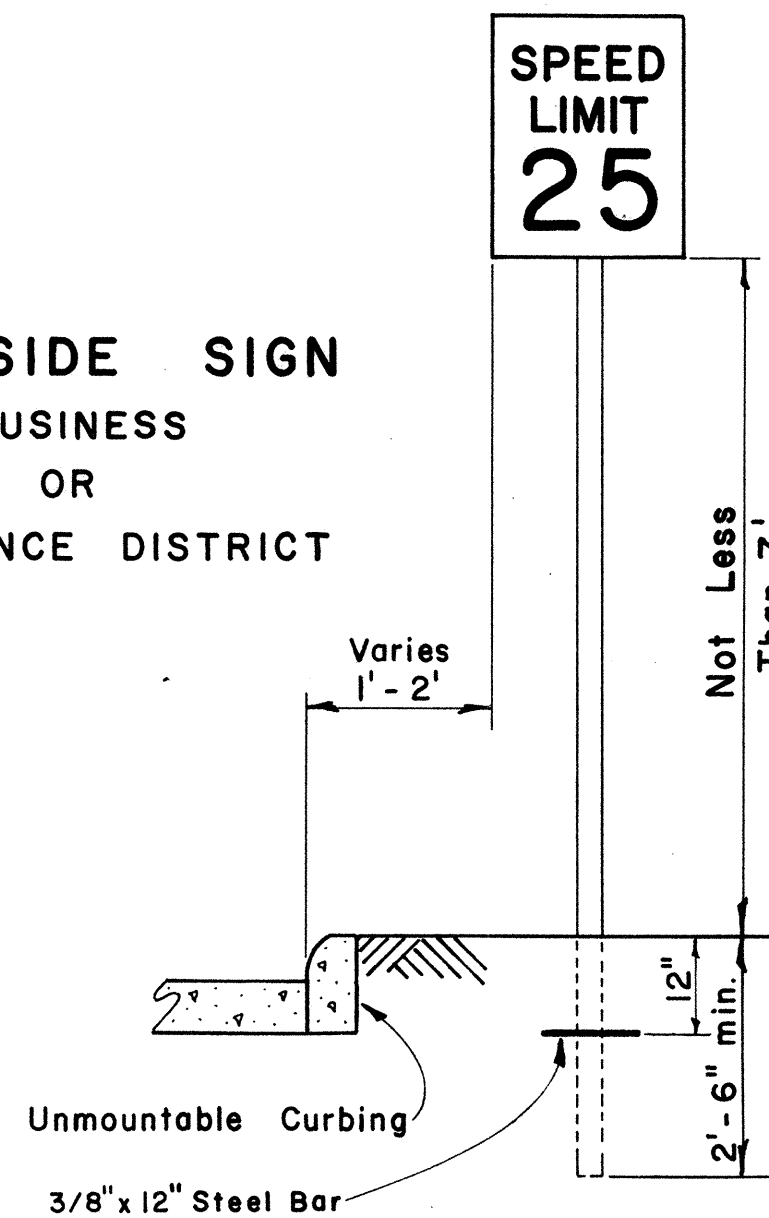
SHEET No. OF SHEETS

NOTE:

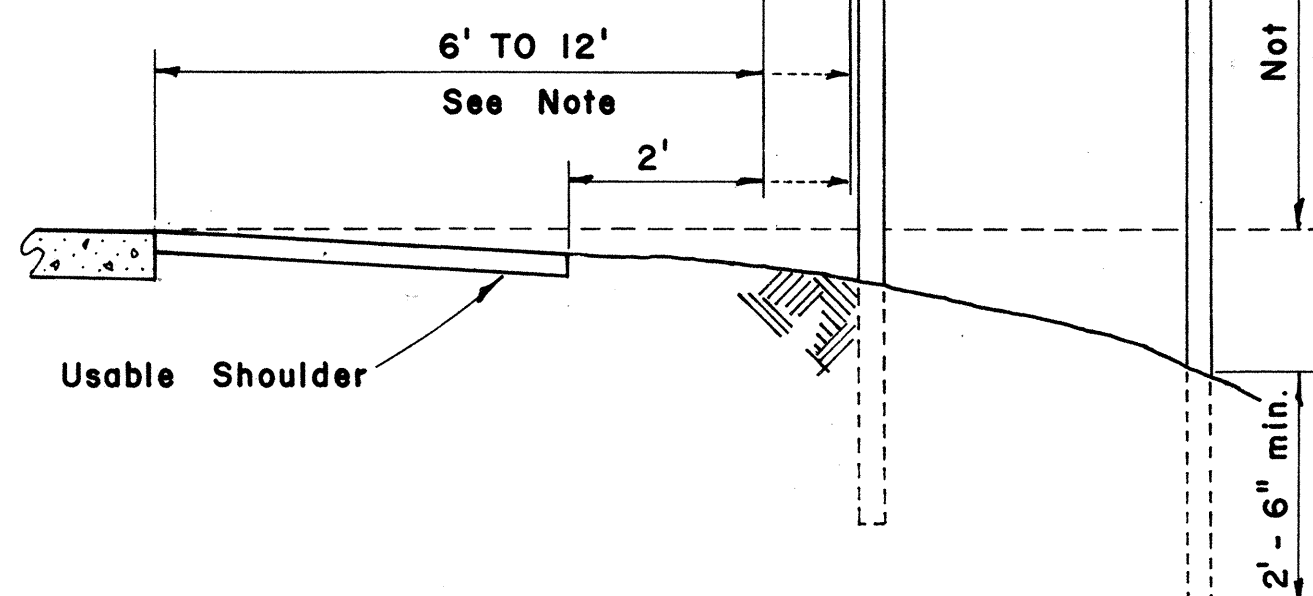
1. All signs and road delineators shall be placed 2' outside the usable roadway shoulder or 1' outside unmountable curbing present and within the limits shown below.
2. Except as noted below, sign posts shall be 3" galv. std. pipe for signs larger than 24" in any dimension and 2" galv. std. pipe for signs not over 24" in any dimension, with two $\frac{3}{8}$ " ϕ bolt holes or adjustable band brackets.
3. Sign shall be attached to post with $\frac{5}{16}$ " galvanized carriage bolts with nuts and $\frac{7}{8}$ " x $\frac{7}{16}$ " x .120 stainless-steel washers with neoprene rubber gasket.
4. Clearance Markers (RM-4, RM-3) shall be installed with the inside edge of the marker in line with the inner edge of the obstruction.
5. Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 3" galv. std. pipe with appropriate $\frac{3}{8}$ " bolt holes.



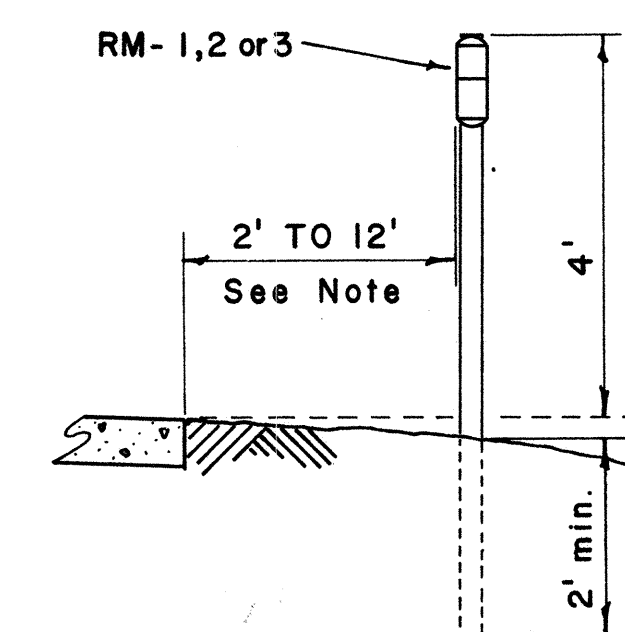
ROADSIDE SIGN
BUSINESS
OR
RESIDENCE DISTRICT



ROADSIDE SIGN
(DOUBLE POSTS)
RURAL DISTRICT

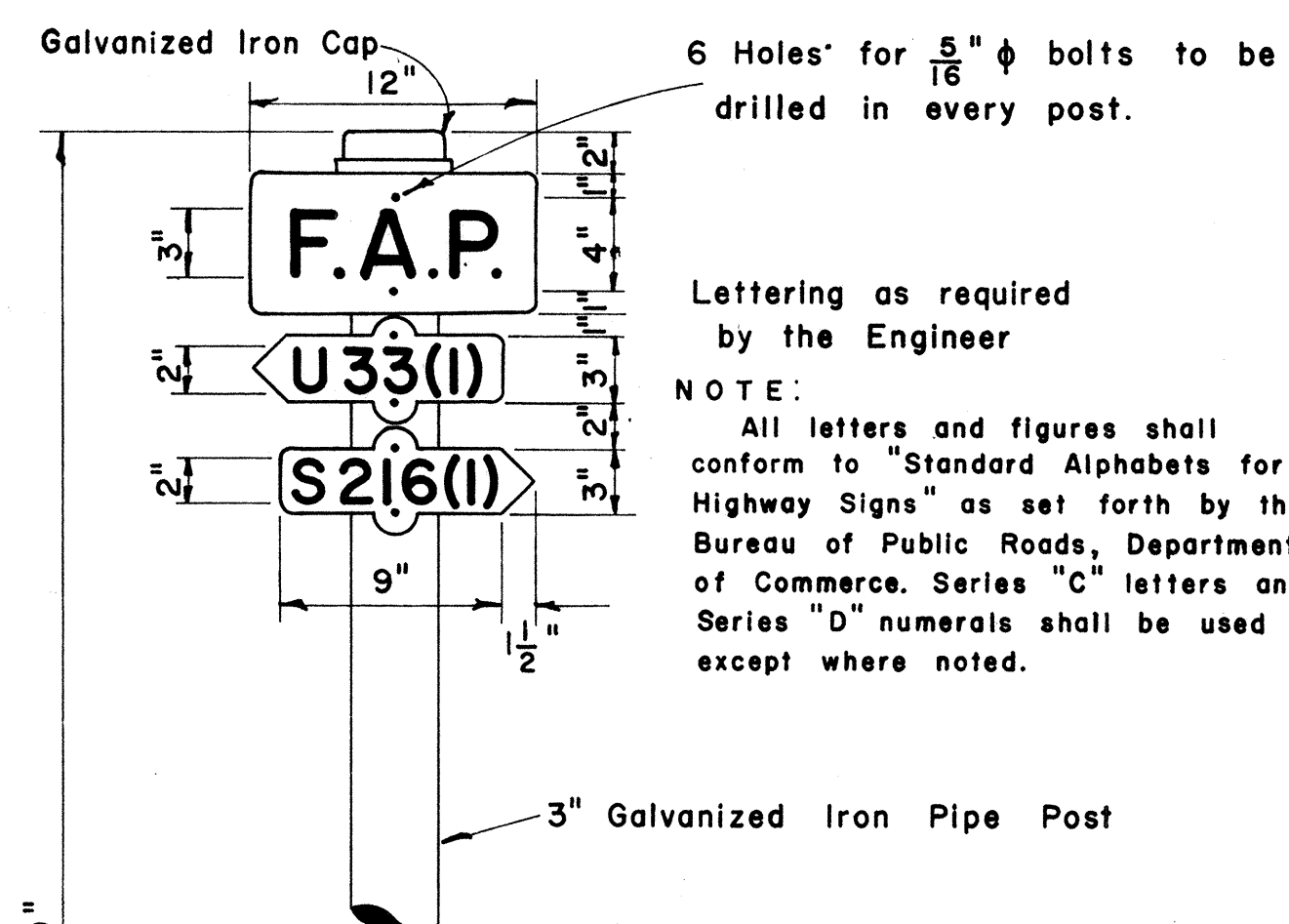


ROAD DELINEATOR



HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

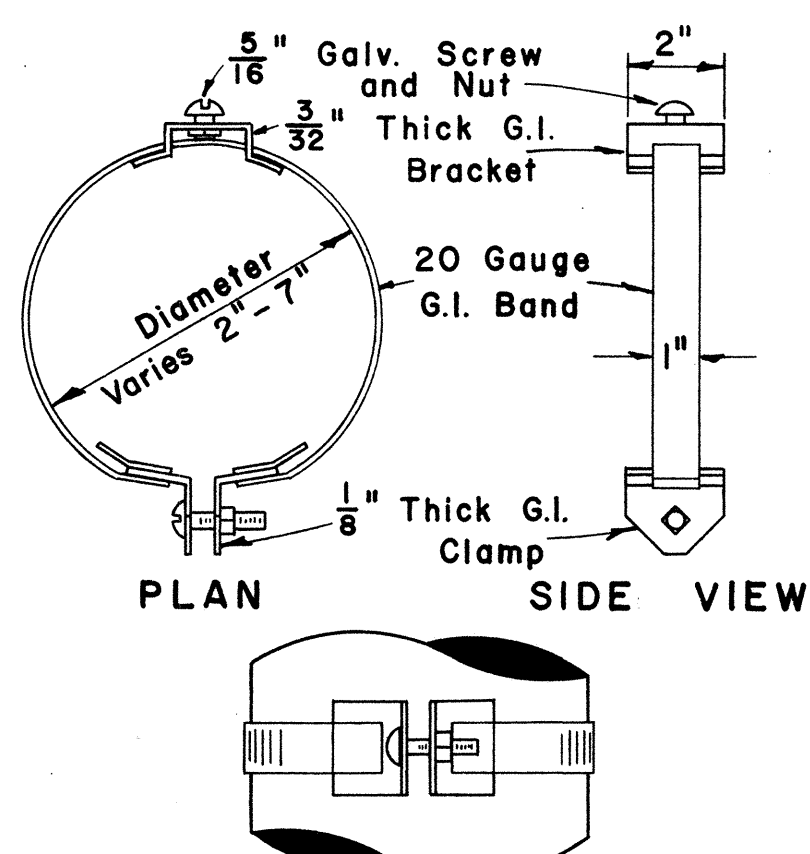
Scale: $\frac{1}{2}$ " = 1' - 0"



Lettering as required by the Engineer

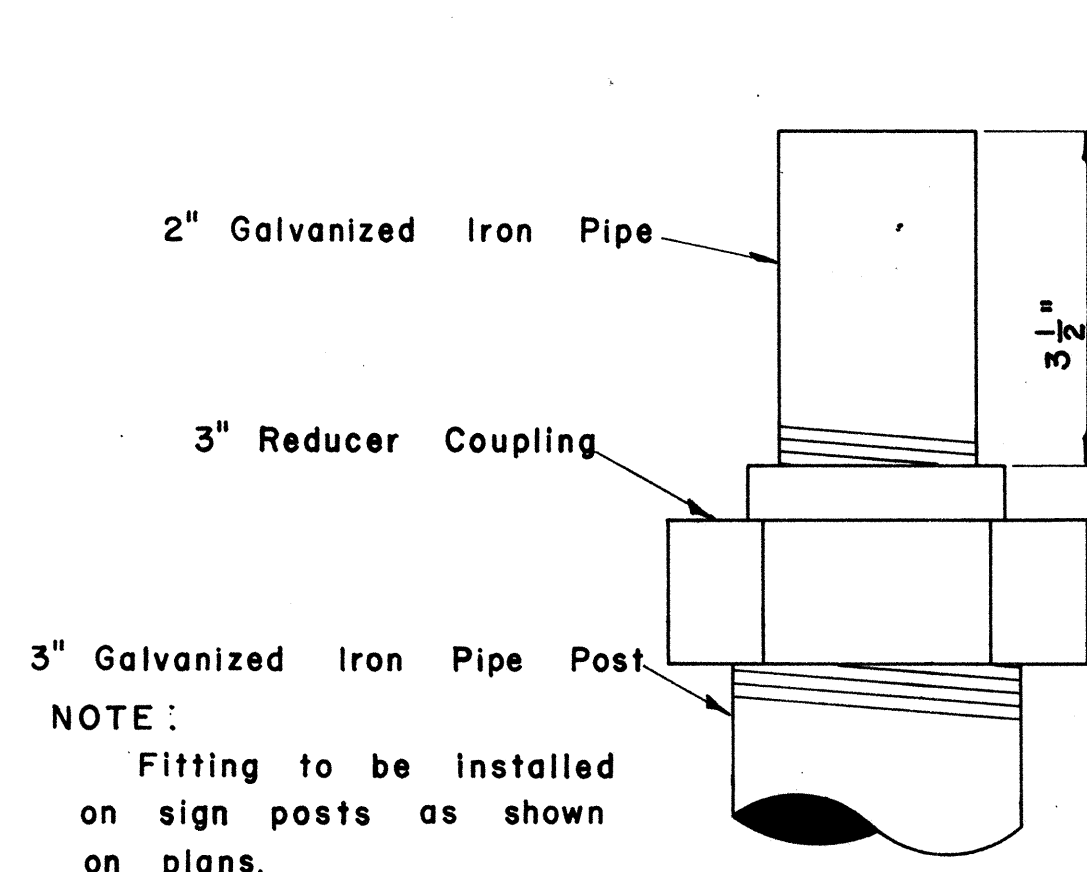
NOTE:

All letters and figures shall conform to "Standard Alphabets for Highway Signs" as set forth by the Bureau of Public Roads, Department of Commerce. Series "C" letters and Series "D" numerals shall be used except where noted.



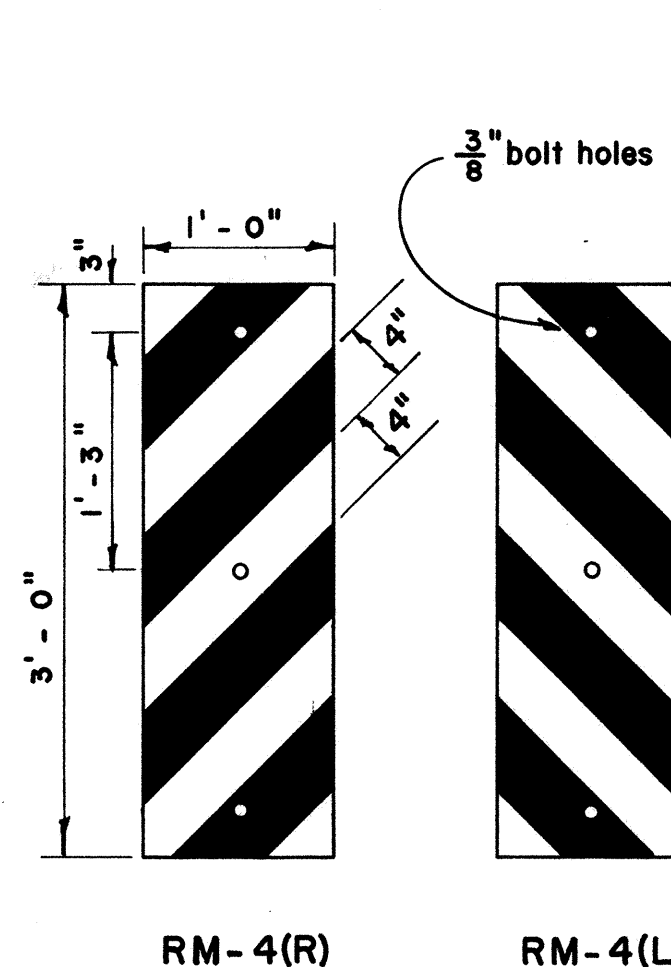
ADJUSTABLE BAND BRACKET
FOR MOUNTING TRAFFIC SIGNS

Scale: 3" = 1' - 0"

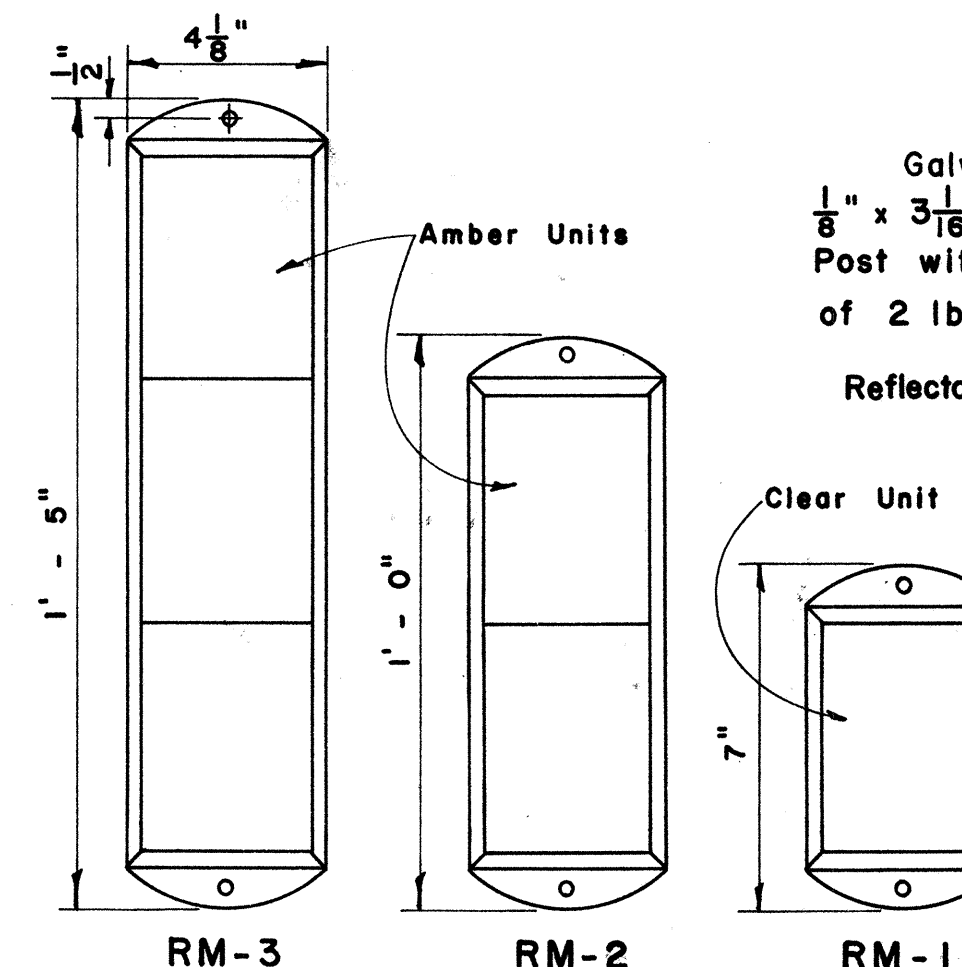


DETAIL OF SIGN POST FITTING
FOR CITY & COUNTY
STREET NAME SIGNS

Scale: $\frac{1}{2}$ " = 1"



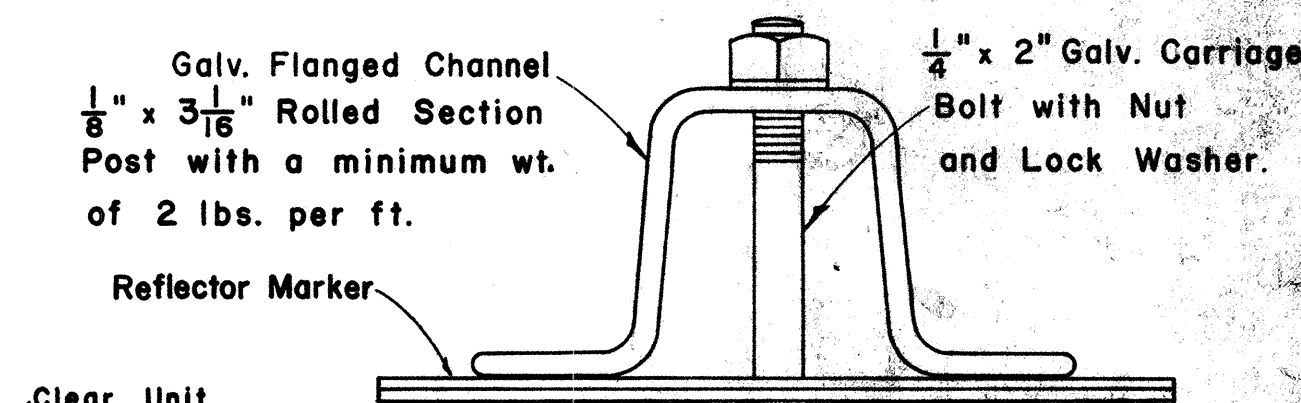
Scale: 1" = 1' - 0"



Scale: 3" = 1' - 0"

REFLECTOR MARKERS

Scale: As Shown



TYPICAL SECTION
OF ROAD DELINEATOR

Full Size

NOTE:

Reflector Units for RM-1,2,3 shall be 4" x 5" in size and shall consist of reflective sheeting encapsulated in acrylic plastic.

NOTE:

Markers and Number plates shall be 0.081" thick with $\frac{3}{8}$ " ϕ holes for fastening as shown on sketch. Markers on Number plates shall be given one coat of best Zinc Chromate primer and two coats of White Marine Enamel. Before painting, the Aluminum blank shall be treated as specified in the Standard Specifications. Markers and plates shall be fastened with $\frac{5}{16}$ " ϕ galvanized bolts and washers in addition to Stainless-Steel washers with Neoprene rubber gaskets attached on front face of each plate. Letters and numbers shall be of two coats of Black Marine Enamel.

