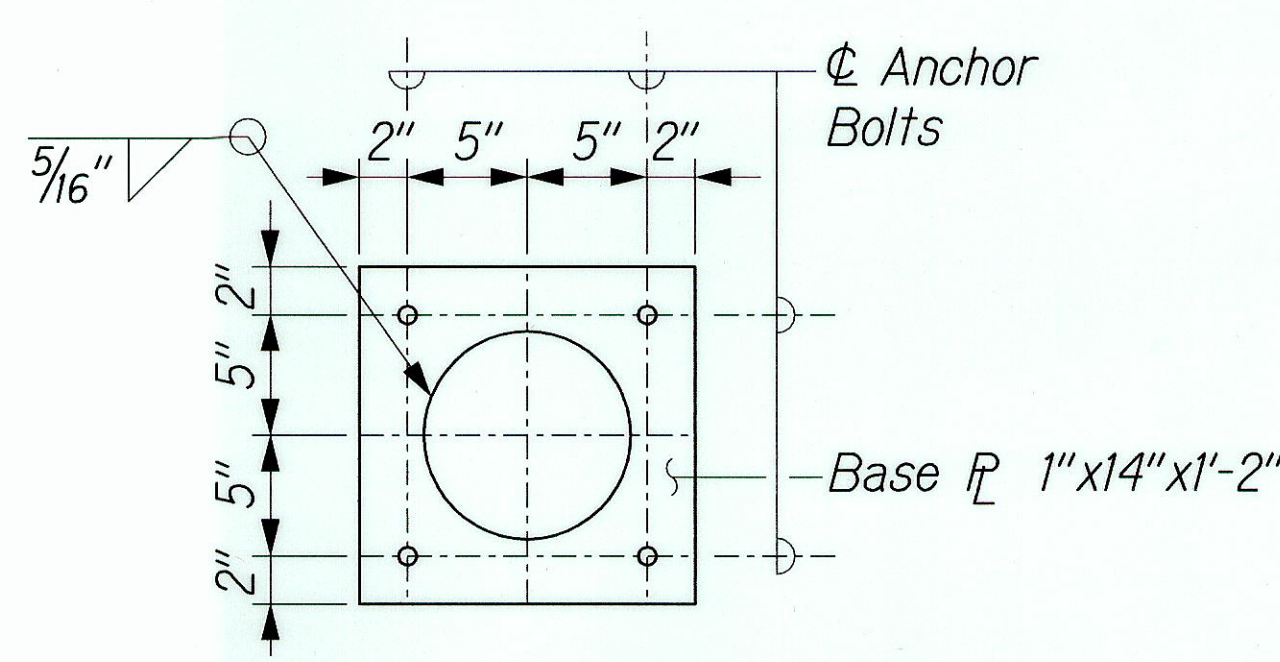
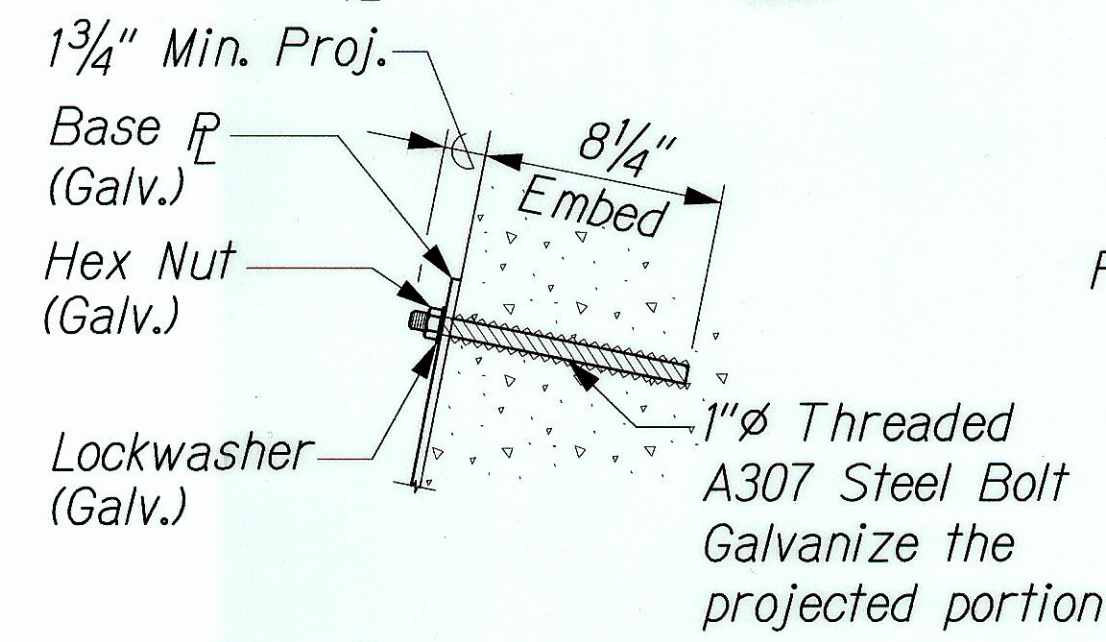


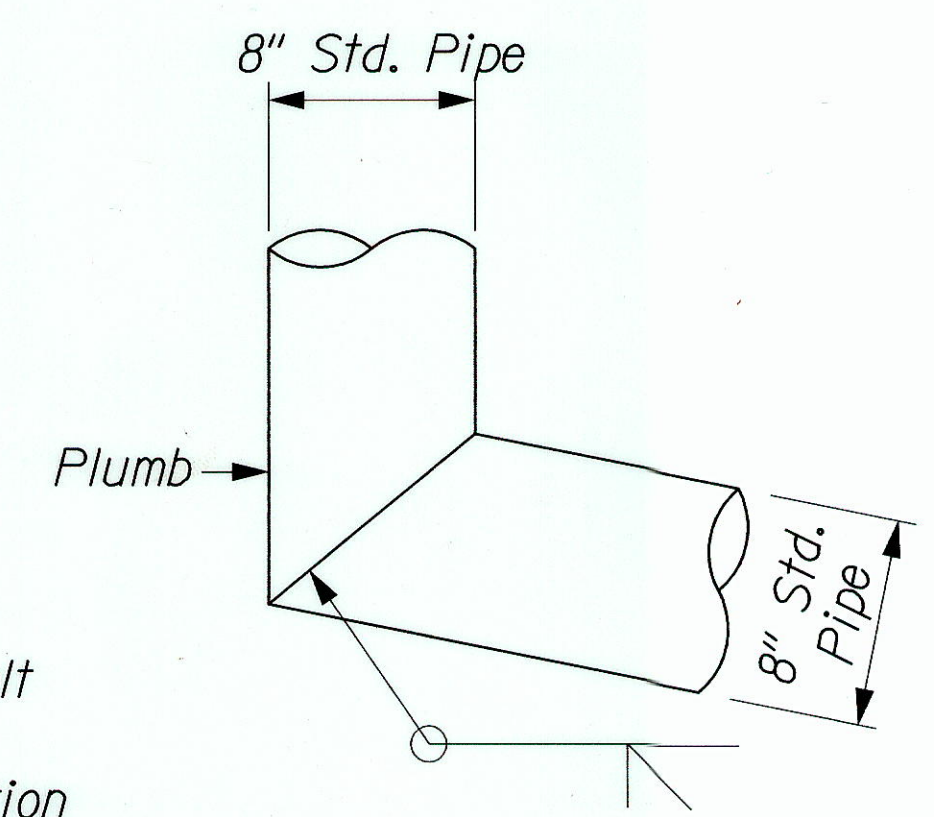
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(246)	2004	85	105



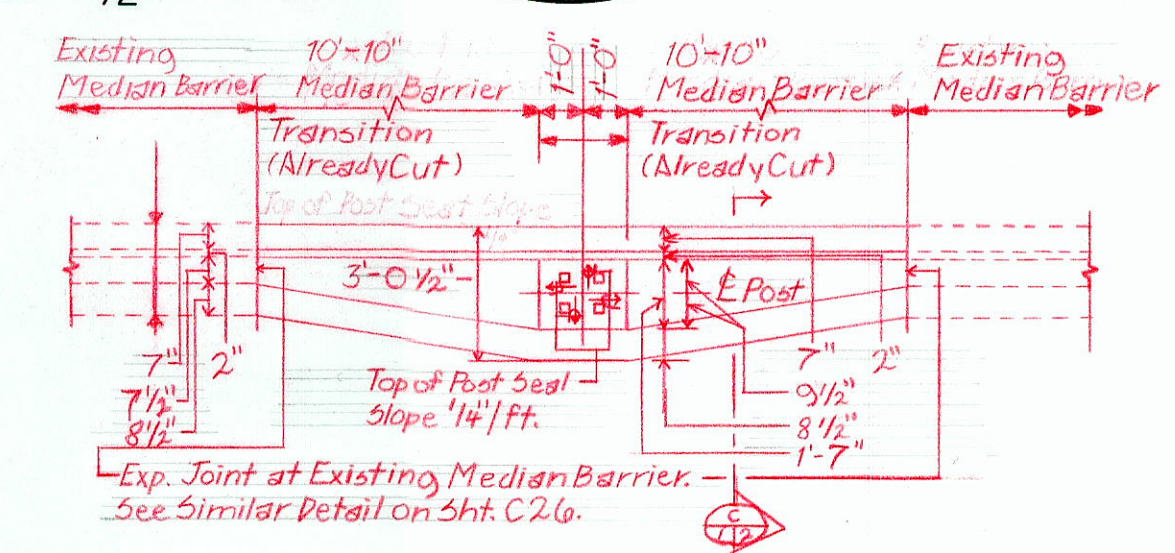
SECTION A
Scale: 1/2" = 1'-0"



ANCHOR BOLT DETAIL
(Adhesive Type Drilled Anchor Bolt)
Scale: 1/2" = 1'-0"

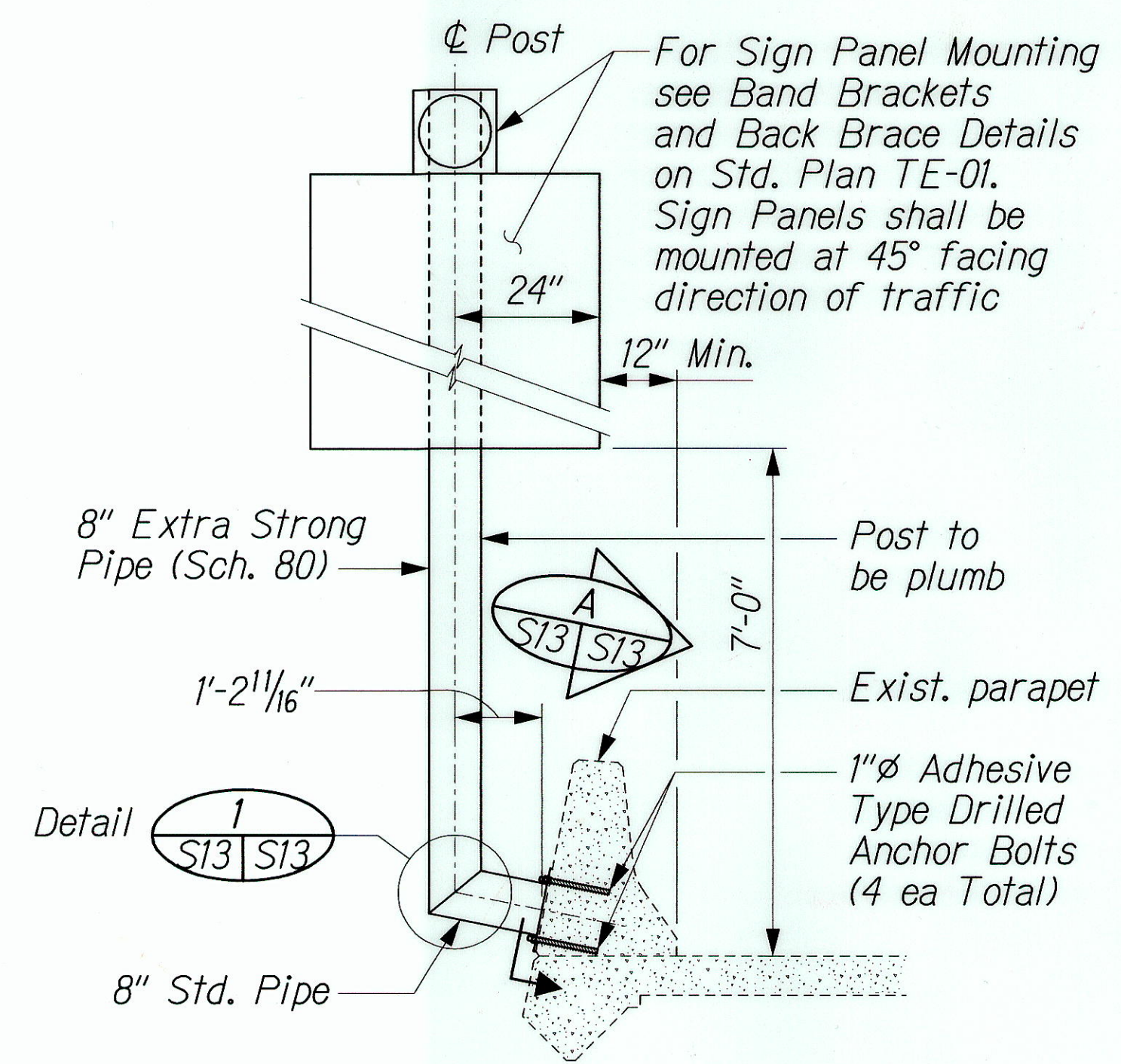


DETAIL 1
Scale: 1/2" = 1'-0"



RFI# 40
Median Barrier Mounted Sign Support at Sta. 102+70

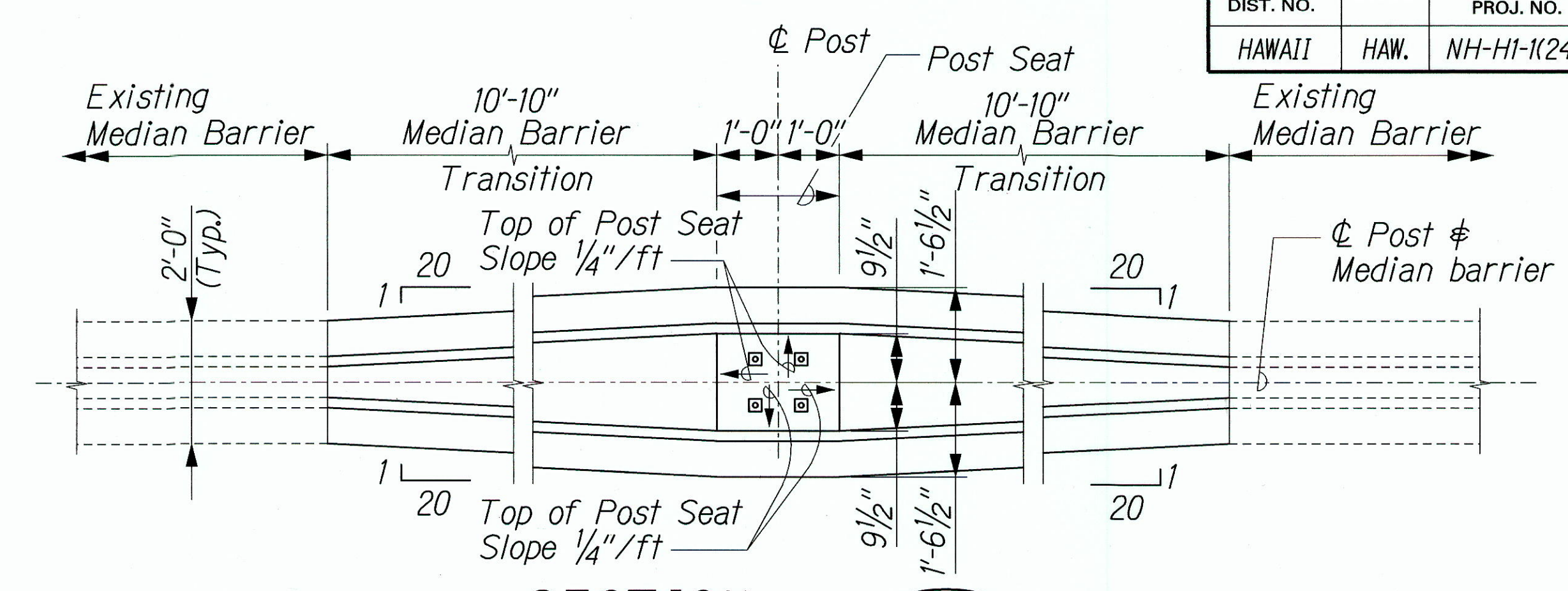
TABLE A	
LOCATION H-1 @ STA.	POST LENGTH L
67+30	17'-0"
76+90	10'-4"
83+40	17'-0"
102+70	10'-4"



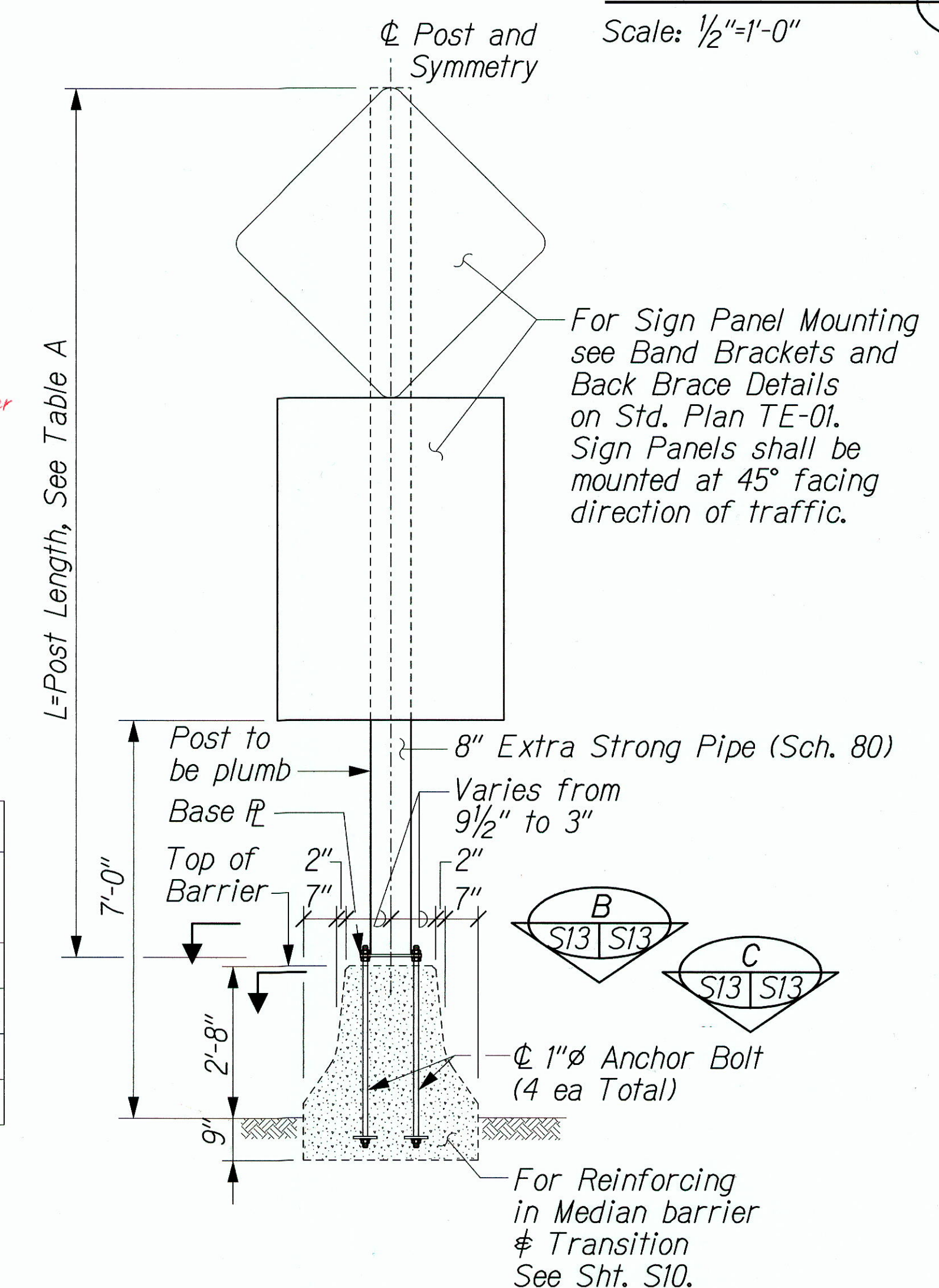
ELEVATION

PARAPET MOUNTED SIGN SUPPORT

- Scale: 1/2" = 1'-0"
- @ H-1 @ STA. 211+00
 - @ H-1 @ STA. 211+05
 - @ NIMITZ CONNECTOR (WB) @ STA. 26+00
 - @ NIMITZ CONNECTOR (WB) @ STA. 35+25
 - @ NIMITZ CONNECTOR (WB) @ STA. 37+00
 - @ NIMITZ CONNECTOR (WB) @ STA. 38+90



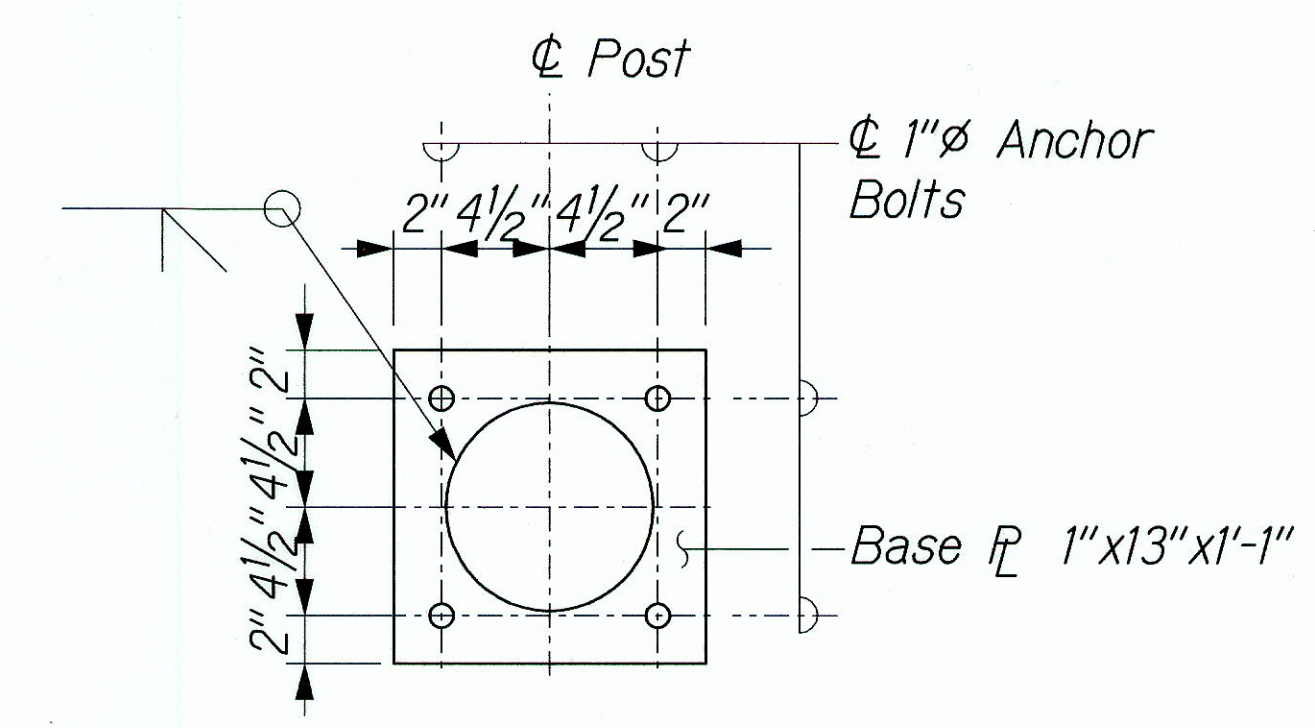
SECTION C
Scale: 1/2" = 1'-0"



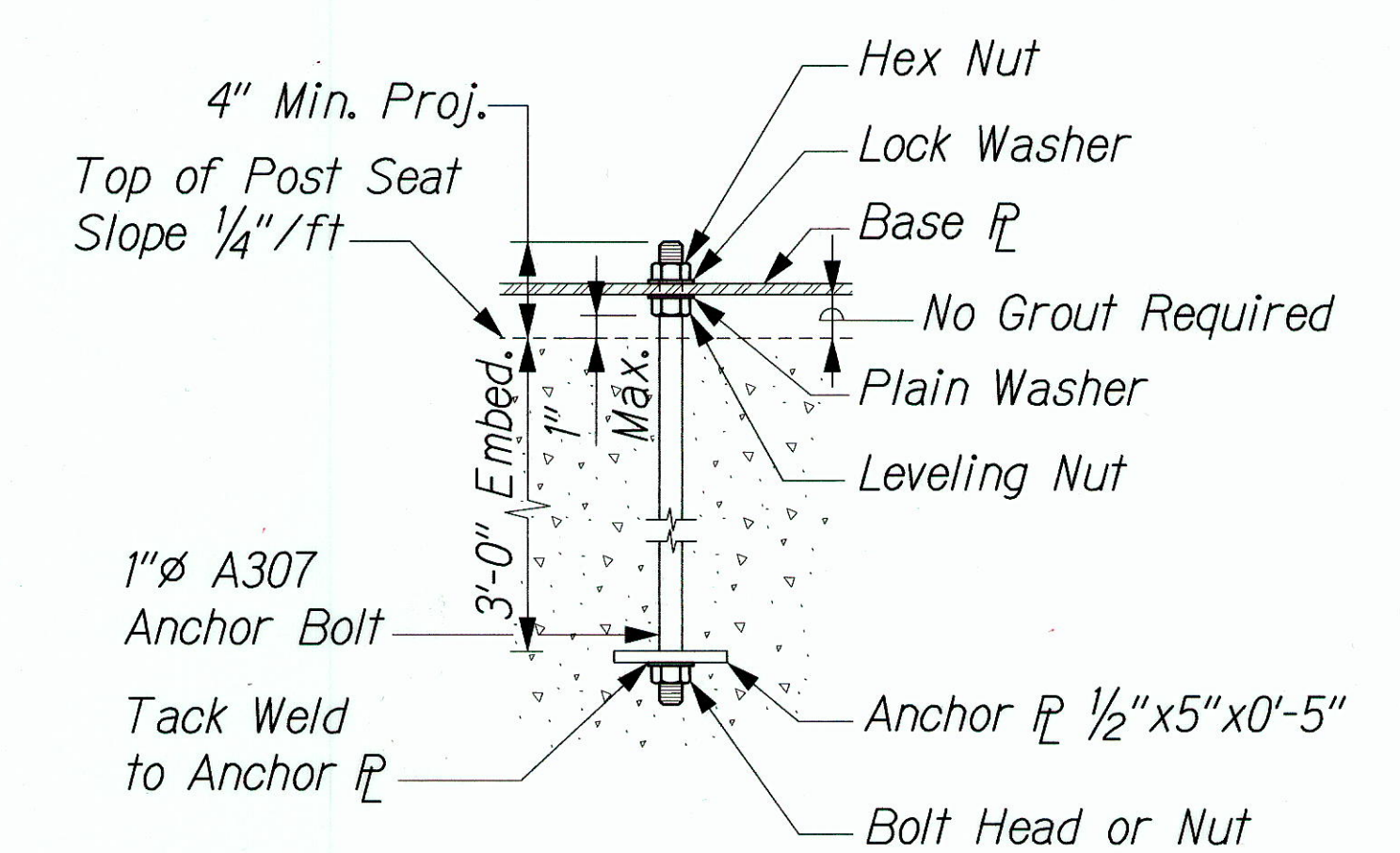
ELEVATION

MEDIAN BARRIER MOUNTED SIGN SUPPORT

- Scale: 1/2" = 1'-0"
- @ H-1 @ STA. 67+30 **67+30.5**
 - @ H-1 @ STA. 76+90 **76+74.2**
 - @ H-1 @ STA. 83+40 **83+40.1**
 - @ H-1 @ STA. 102+70 **102+70**



SECTION B
Scale: 1/2" = 1'-0"



ANCHOR BOLT DETAIL

(Adhesive Type Drilled Anchor Bolt)
Scale: 1/2" = 1'-0"

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

J:\ZIPPER EXTENSION\STRUCT\SS10.dgn

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Hui Pang Chen

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

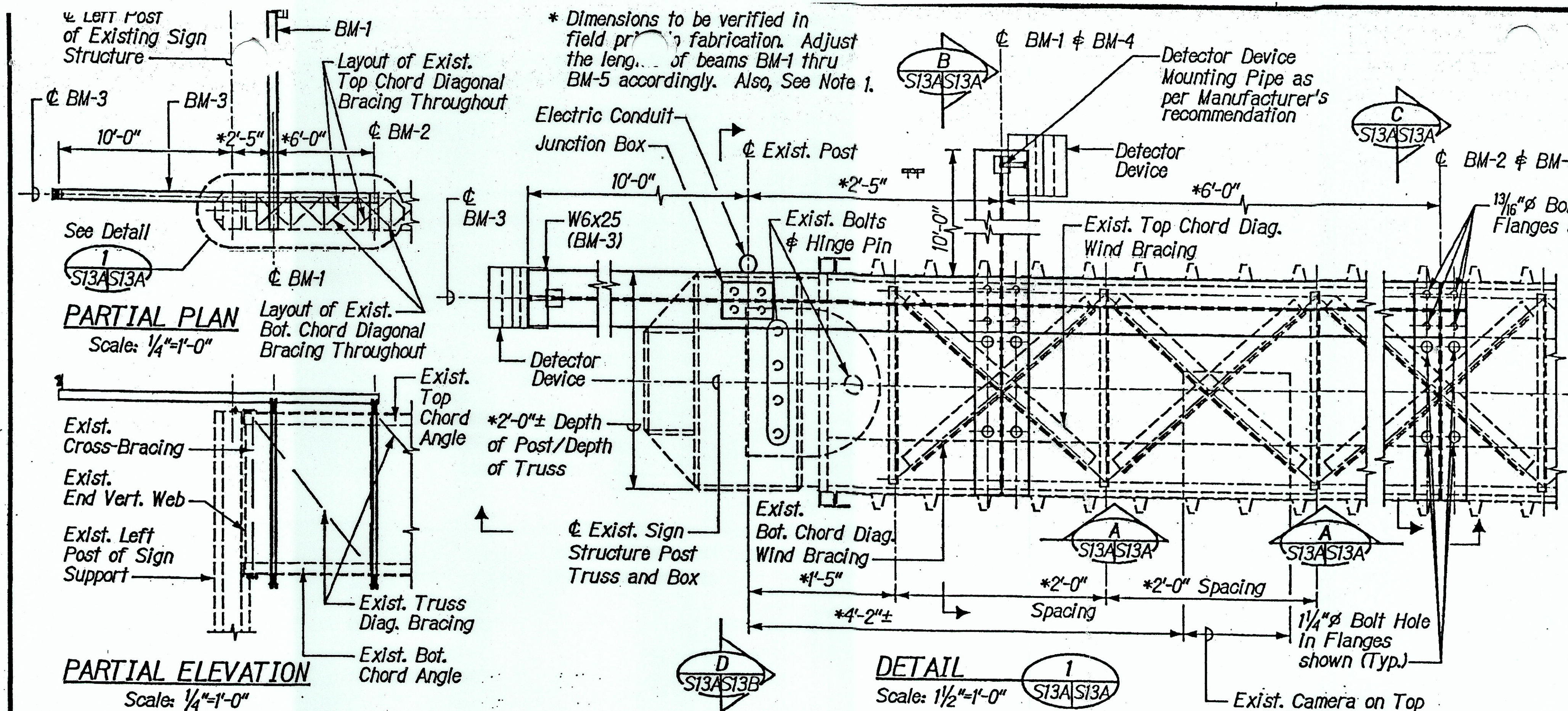
PARAPET & MEDIAN BARRIER MOUNTED SIGN SUPPORT

INTERSTATE ROUTE H-1 ZIPPER LANE EXTENSION
RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE
FEDERAL AID PROJECT NO. NH-H1-1(246)

Scale: As Noted Date: Mar. 2, 2004

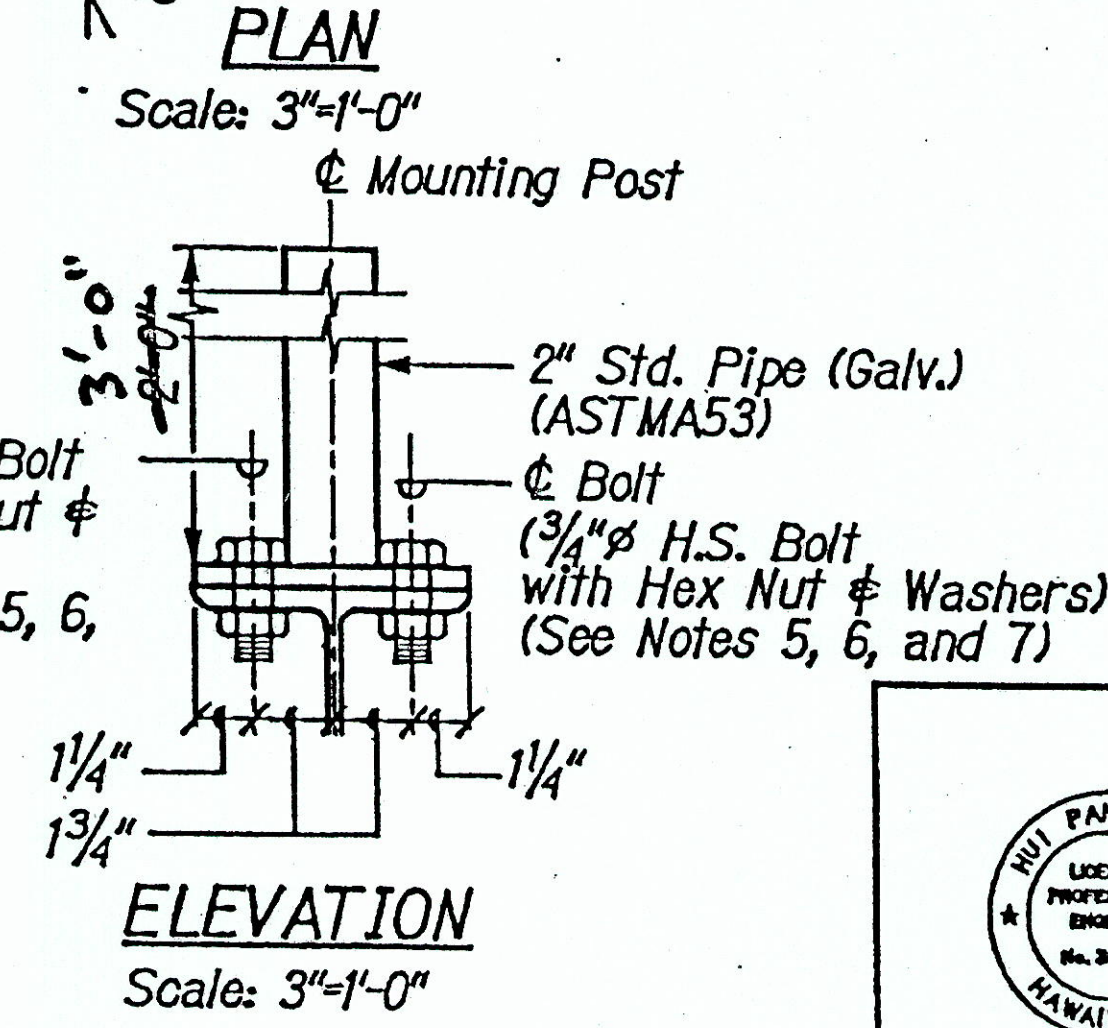
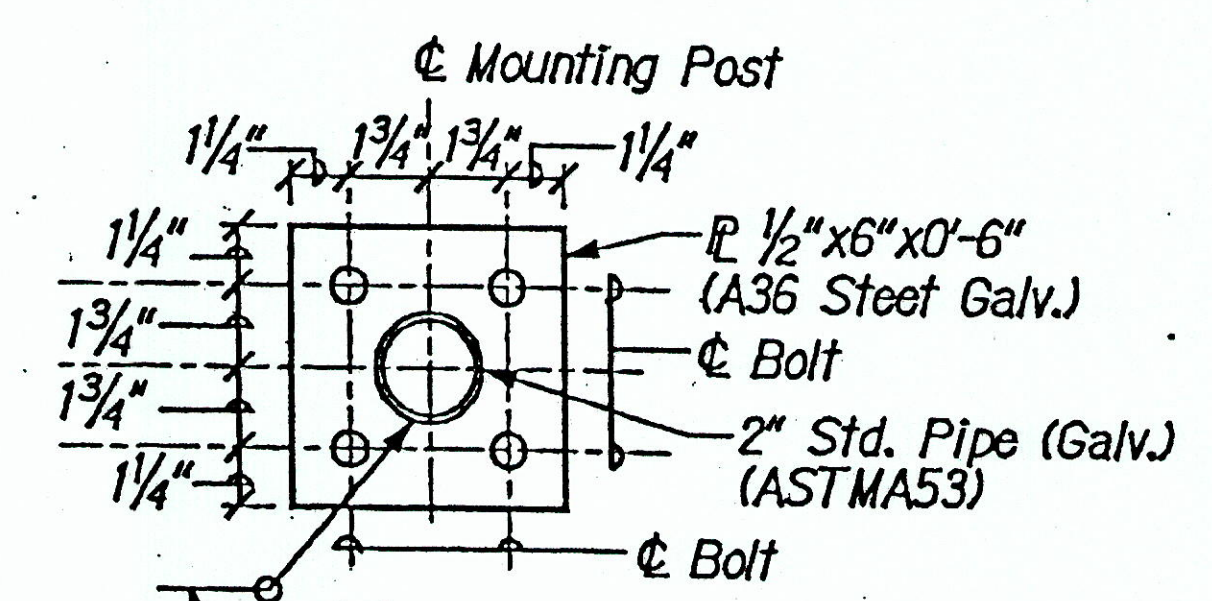
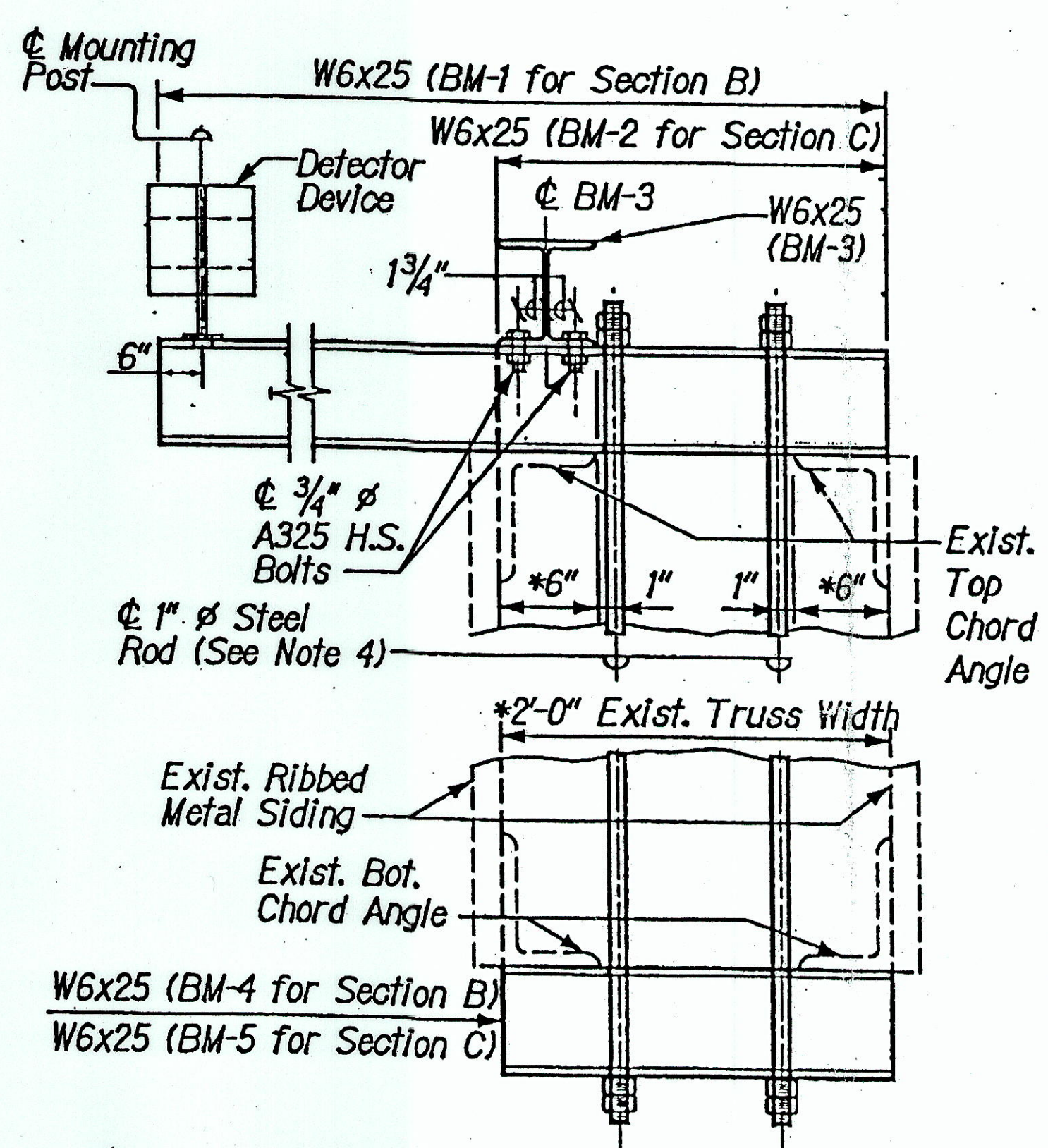
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11-HI-1246	2004	85 S-1	105

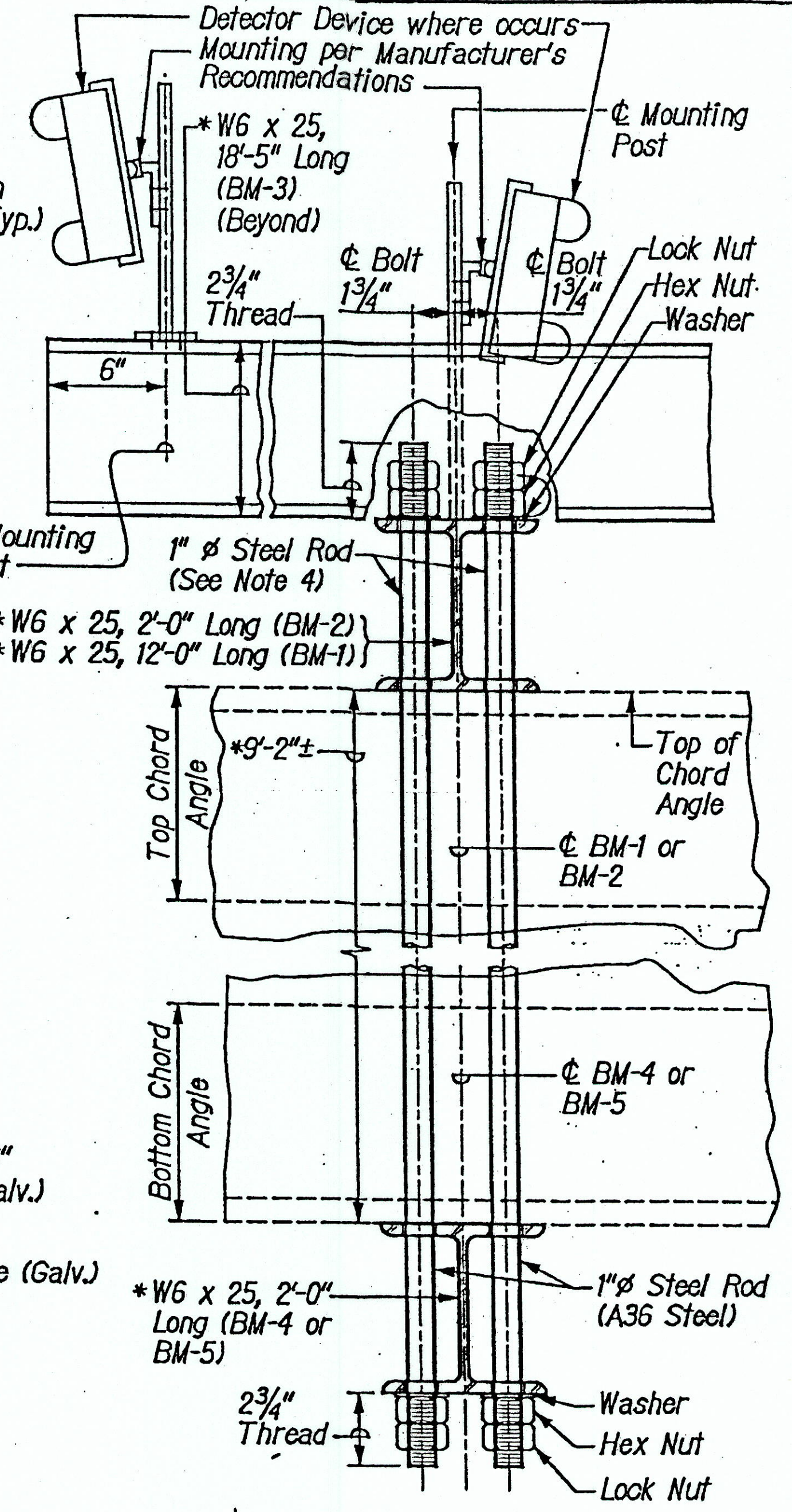


NOTES:

1. Prior to fabrication, the Contractor shall verify the spacing of existing top and bottom chord wind bracings to ensure that the 1" diameter steel rods can be installed clearly through the existing box truss without interference with any box truss angle. Notify the Engineer immediately if any interference occurs.
2. The Contractor shall verify the location of existing camera on top of existing sign structure at H-1 Station 137+20± to ensure that there is no interference with new beam BM-1. Notify the Engineer immediately if any interference occurs.
3. All structural steel shall conform to ASTM A36 and shall be hot-dipped galvanized after fabrication.
4. The 1" diameter steel rod with threads shall conform to ASTM A307 or A36 and shall be hot-dipped galvanized after fabrication.
5. The high strength bolts connecting BM-3 and Mounting Post shall conform to ASTM A325 and shall be hot-dipped galvanized.
6. The nuts shall be hexagon nuts and shall conform to ASTM A563 Gr. DH and shall be hot-dipped galvanized.
7. The washers shall conform to ASTM F436 and shall be hot-dipped galvanized.
8. After snugly tightening nuts of the 1" diameter steel rod in place, torque the nuts to 45 foot-pound before installing the lock nuts as shown.
9. The galvanized surfaces of Beams BM-1 thru BM-5 shall be painted in accordance with the requirements of Subsection 501.03(FX3) Preparation of Zinc-Coated Surfaces and Section 708 Paints of HDOT Standard Specifications, except that the color shall be off-white matching existing sign structure color.

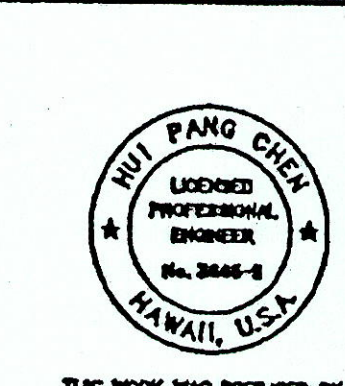


MOUNTING POST DETAILS



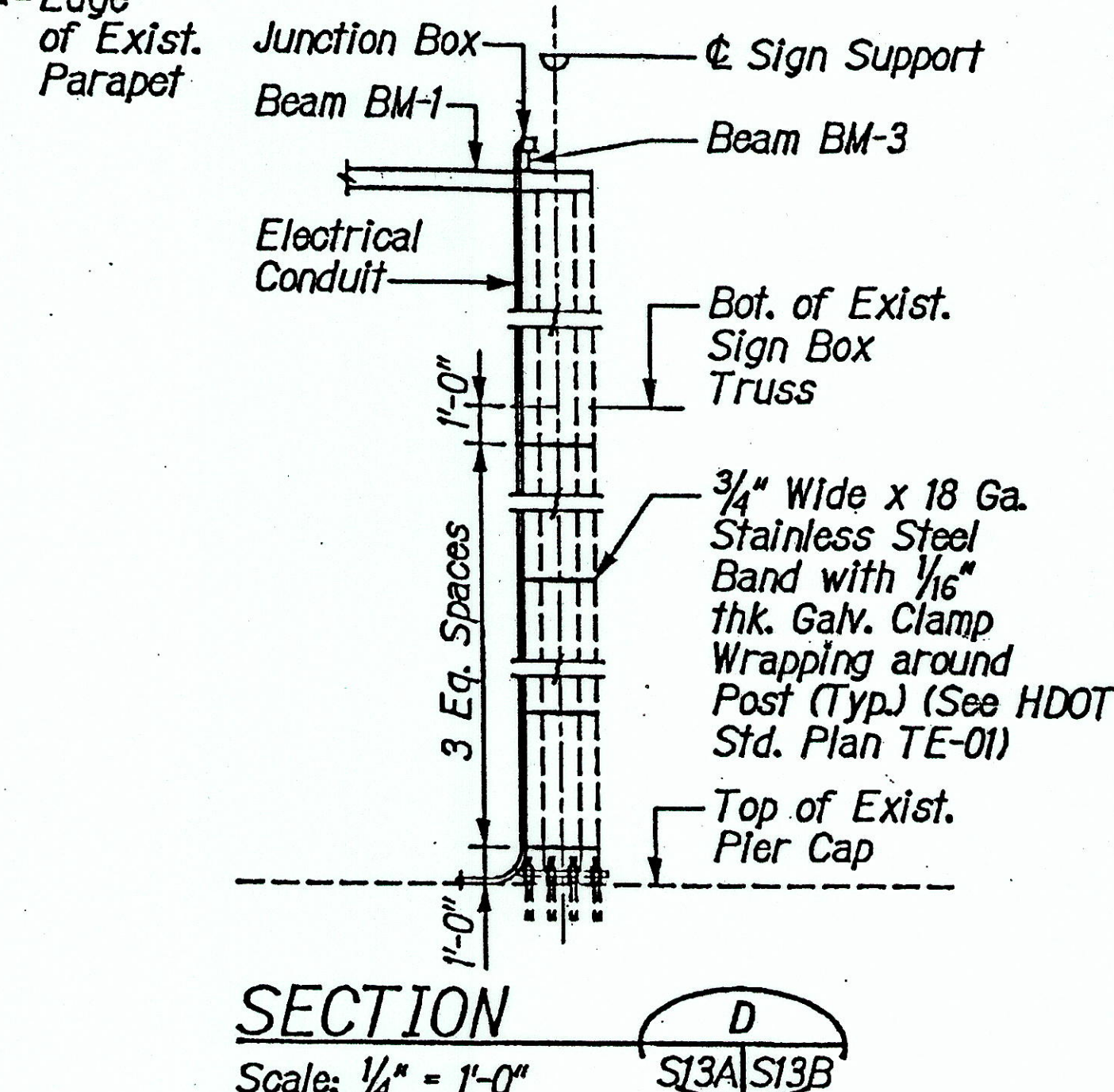
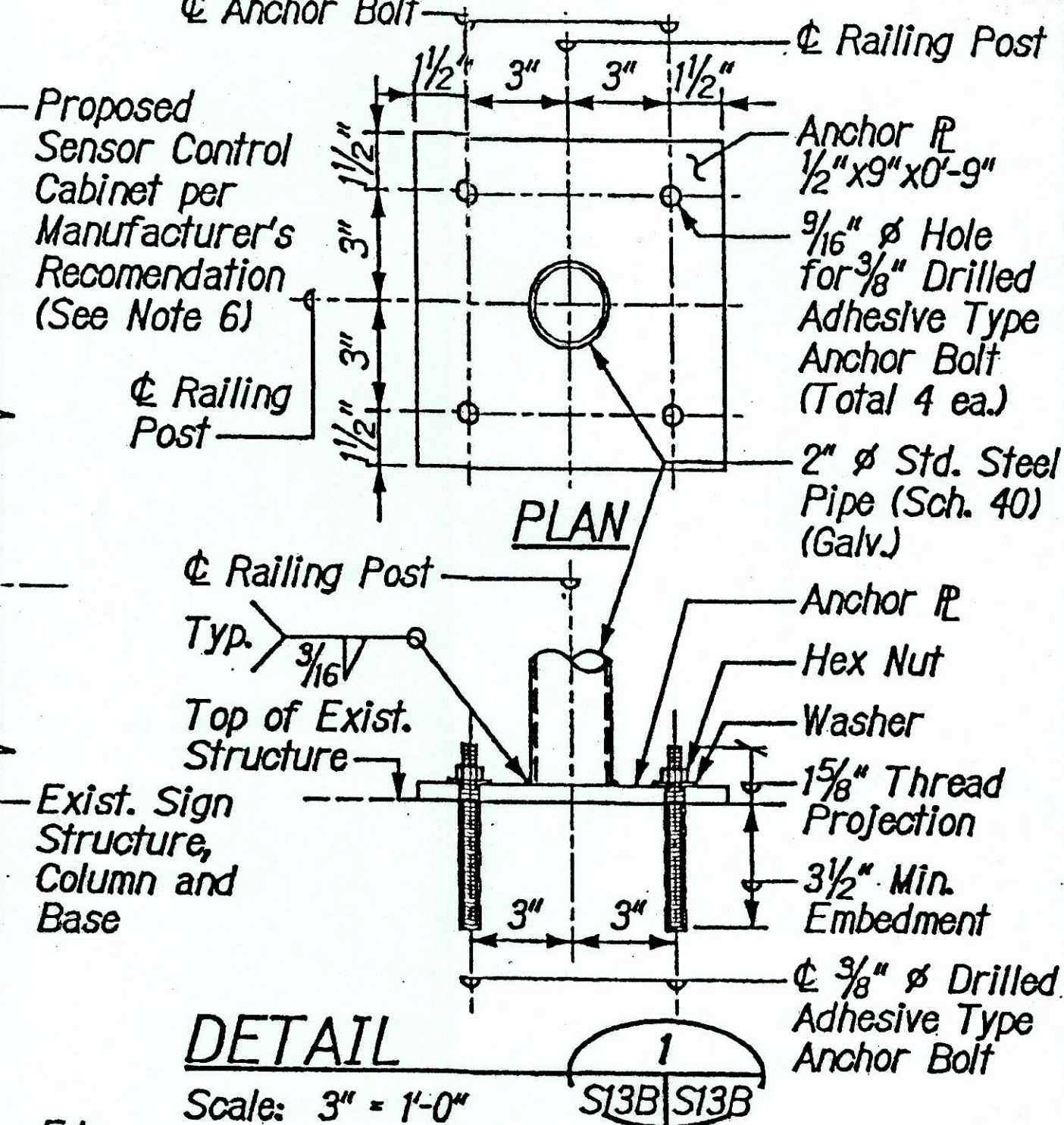
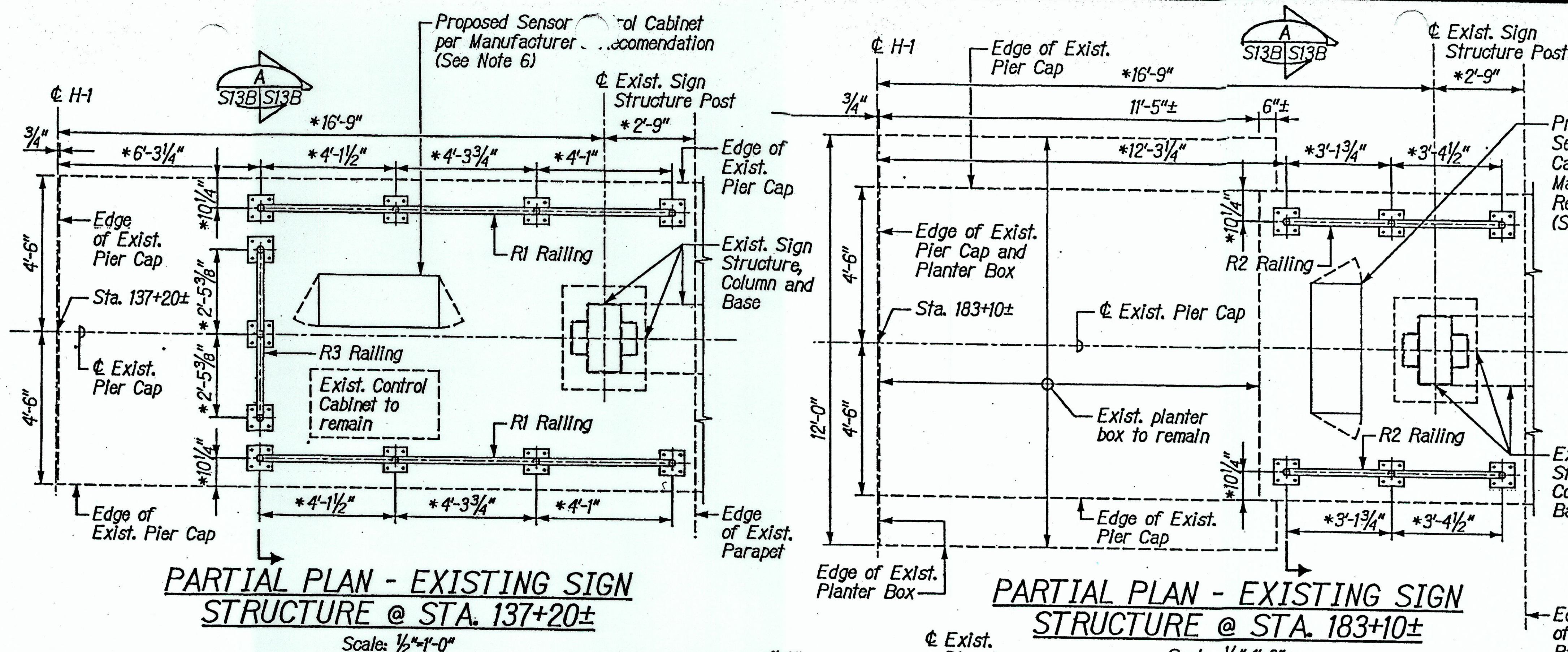
4/4/05	Added this Sheet
Date	Revision

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
OVERHEAD VEHICLE DETECTOR SUPPORT DETAILS - 1	
INTERSTATE ROUTE H-1 ZIPPER LANE EXTENSION RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE FEDERAL AID PROJECT NO. 11-HI-1246	
Scale: As Noted	Date: Mar. 2, 2004

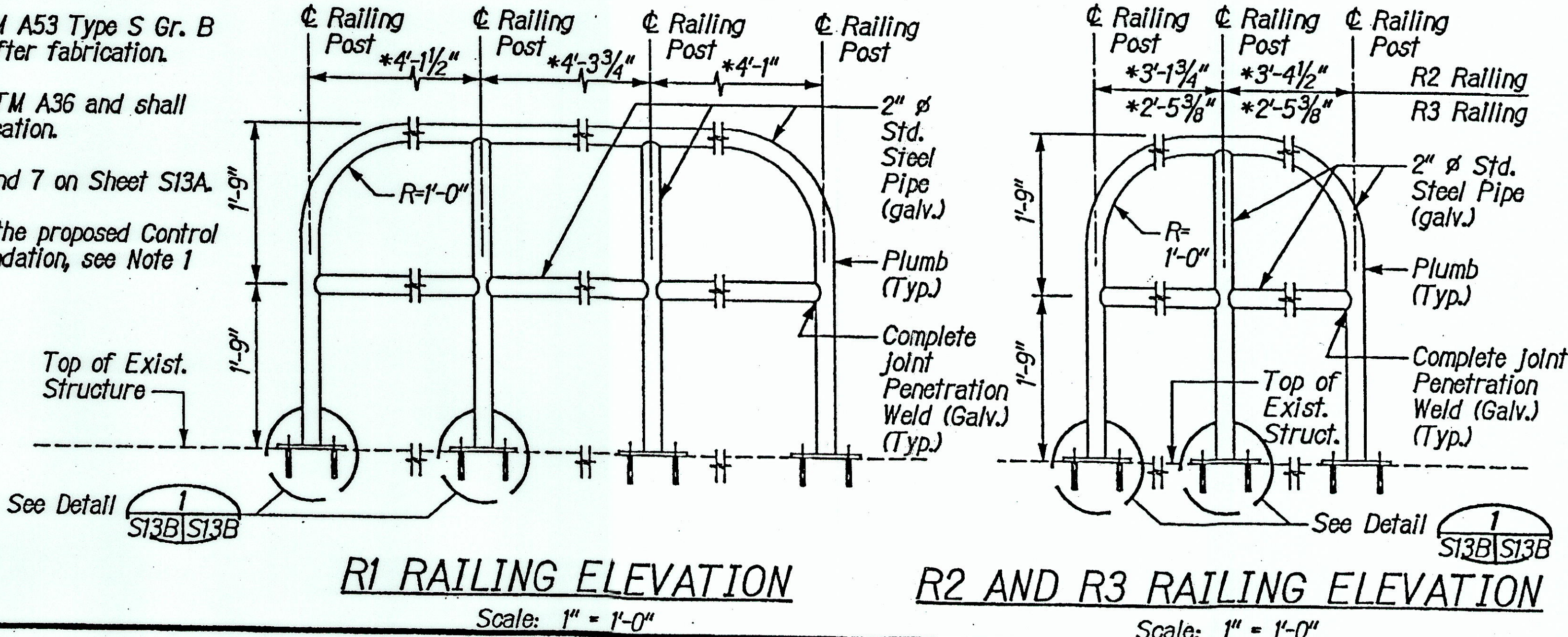
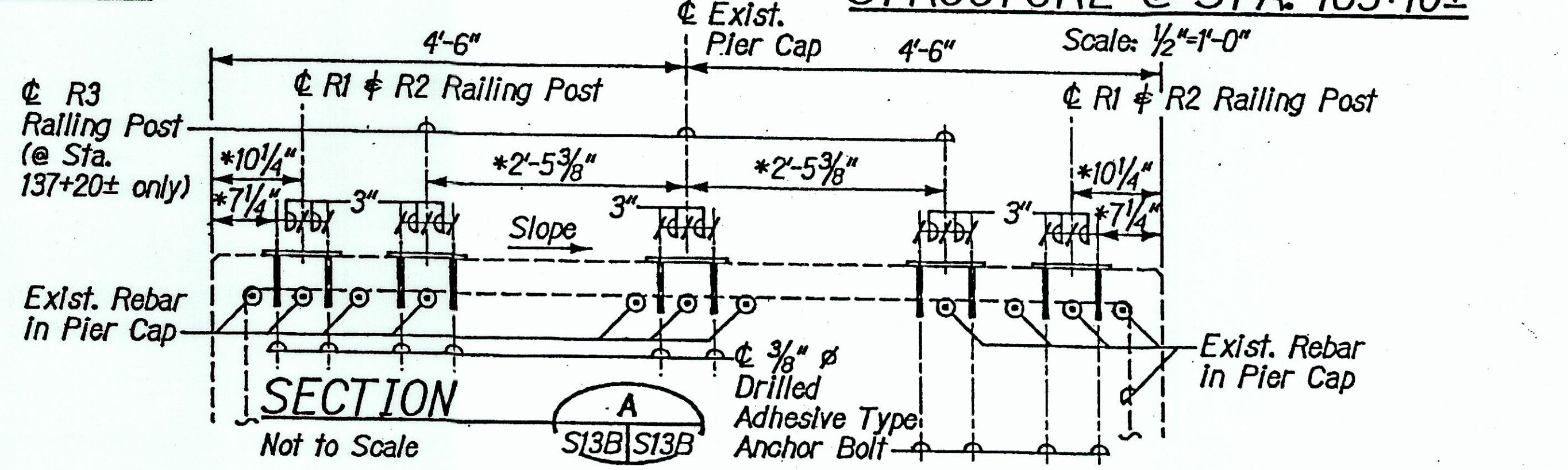


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-K246	2004	C.O. 85 S-2	105



- NOTES:**
- * Due to high congestion of rebar placement in existing pier cap, the Contractor shall use rebar detecting device to locate existing rebar prior to drilling holes and railing fabrication. The Contractor shall avoid cutting existing rebar during hole drilling. After locating anchor bolts, adjust the railing post location and length of railing accordingly.
 - All structural steel shall conform to ASTM A36 and shall be hot-dipped galvanized after fabrication.
 - All steel pipes shall conform to ASTM A53 Type S Gr. B and shall be hot-dipped galvanized after fabrication.
 - All anchor bolts shall conform to ASTM A36 and shall be hot-dipped galvanized after fabrication.
 - All nuts and washers, see Notes 6 and 7 on Sheet S13A.
 - For installation of anchor bolts for the proposed Control Cabinet per Manufacturer's recommendation, see Note 1 this Sheet.



	4/4/05	Added this Sheet
	Date	Revision
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION OVERHEAD VEHICLE DETECTOR SUPPORT DETAILS - 2 INTERSTATE ROUTE H1 ZIPPER LANE EXTENSION RADFORD DRIVE OVERPASS TO KEEHI INTERCHANGE FEDERAL AID PROJECT NO. NH-HI-K246 Scale: As Noted Date: Mar. 2, 2004	

SHEET No. S13B OF 13 SHEETS