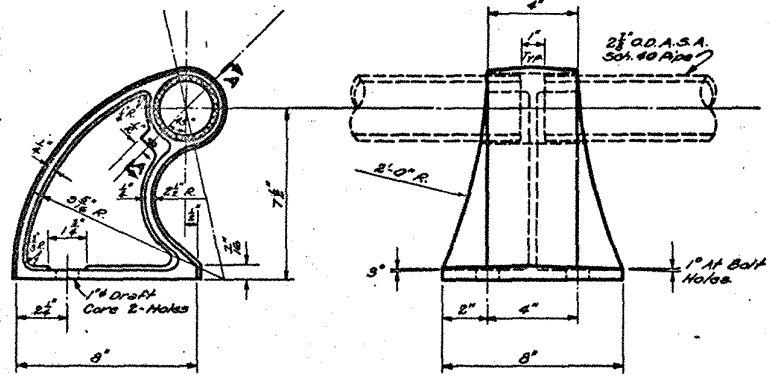
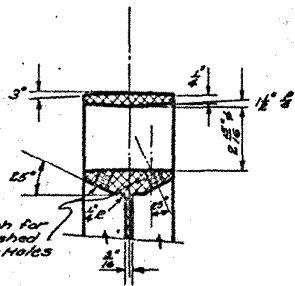


TYPE 2

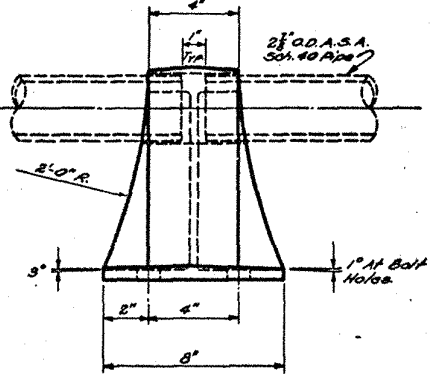


END ELEVATION

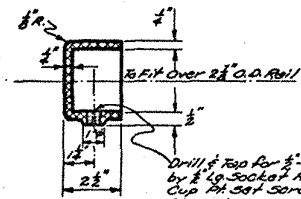
SIDE ELEVATION



SECTION A-A



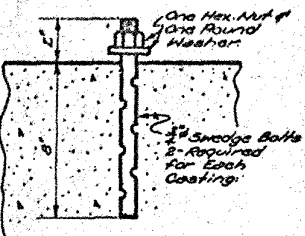
SIDE ELEVATION



RAIL CAP

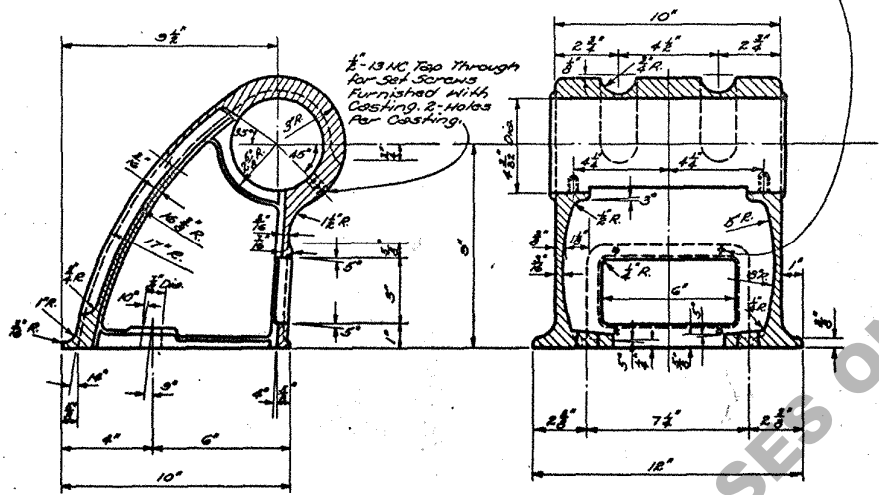
NOTES:

1. Handrail Castings shall be Full Permanent Mold Castings Using Aluminum Alloy 356-T6 or Shall Have a "Sand Blast" Finish (ASTM B108 S4T, Alloy 35-T6 T6A-T6).
2. Anodize Bolts, Nuts, Shims & Washers shall be Aluminum. Bolts & Nuts shall be 1/2" (ASTM B21-S2T, Alloy 3042A-T6 or Alloy 2025 Aluminum Finish (ASTM B21-S2T, Alloy 3042A-T6, & Given An Anodic Coating of At Least .00025 Inches Thick if Chromate Sealed). Shims shall be of Alloy 1100-O (ASTM B209-S2T, Alloy 390A-O). Aluminum Washers shall be of Alloy 2024-T4 (ASTM B209-S4T, Alloy 6061-C642A-T4).
3. The Cast Nuts shall be R5 D.D. A.S.A. Schedule 40 Aluminum Alloy 6061-T6. (ASTM B24, 610A-T6).
4. The Set Screws for Holding Rail in Casting shall be Stainless Steel with Socket Head & Cup End.
5. All Aluminum Surfaces to be Placed in Contact with, or attached to, steel members shall be thoroughly cleaned with an Approved Aluminumizing or Inorganic Coating Compound. All Aluminum Surfaces to be Placed in Contact with concrete, shall be Given a Heavy Coat of An Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, & Allowed to Dry Before Placing on the Concrete.
6. The Ends of the Handrails, in Place when starting on this Plan shall be in accordance with applicable sheets of the Project Plans.



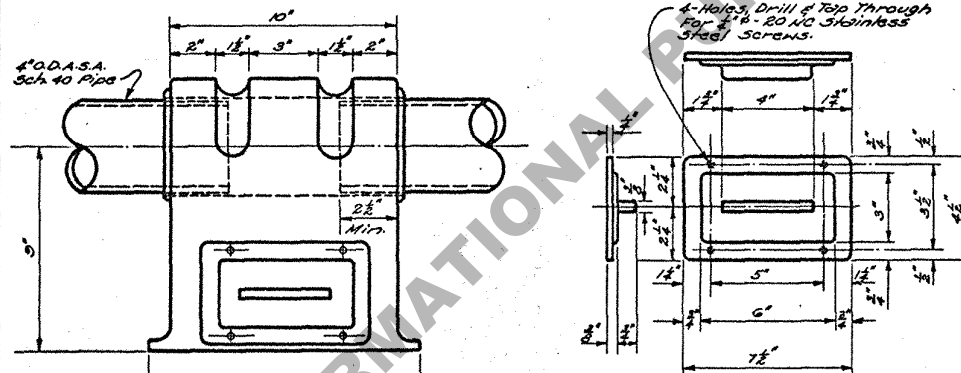
ANCHOR BOLT DETAIL

TYPES 3 & 4

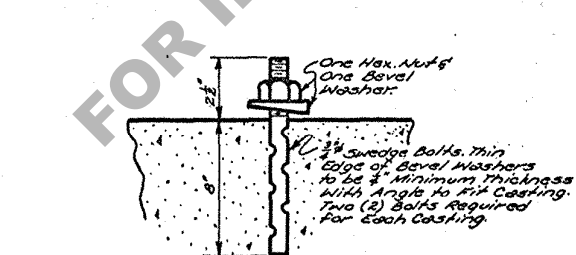


END SECTION

SIDE SECTION



SIDE ELEVATION



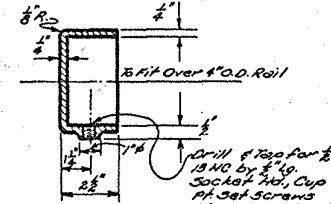
ANCHOR BOLT DETAIL

NOTES:

- NOTES:**
1. Handrail Casting shall be Full Permanent
Cast, using minimum Alloy 325-785
shall have a "Sand Blast" Finish. (ASTM B108
347, Alloy 3670A-78)
 2. Anchor Bolts, Nuts, Shims & Washers shall be
Minimum. Bolts & Nuts shall be Made From
Roof of Alloy 2024-74 With Nt 205 Aluminum
Washers (ASTM B167, Alloy 330 A-0)
Anodized Coating At Least 0.0005 Inches
Thick & Chromate Sealed. Shims shall be of
Alloy 1100-A (ASTM B209-58 T. Alloy 330 A-0).
Minimum Washers shall be of Alloy 2024-74
(ASTM B209-347, Alloy 330 CG 42A-74)
 3. The Pipe Rail shall be of A.S.A. Schedule 40
Alloy 330 A-0 (ASTM B167, Alloy 330 A-0-78).
 4. The 547 Screws for Nailing Rail in Casting
shall be Stainless Steel with Socket Head
& Flat End.



ACCESS DOOR COVER
Cast To Fit & Furnished
With Casting



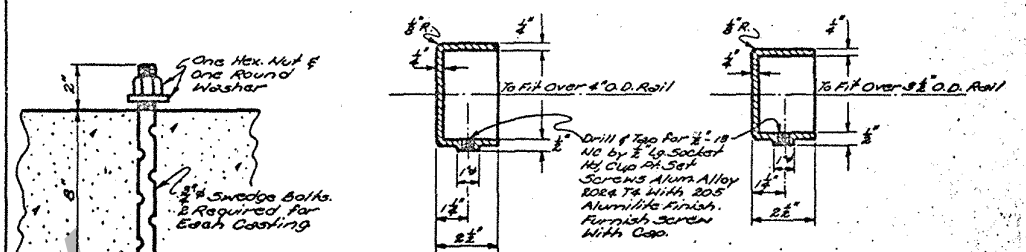
RAIL CAP

5. All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members Shall be Thoroughly Coated With An Approved Aluminum Impregnated Caulking Compound. Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members Shall be Coated With a Heavy Coat of An Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, & Allowed to Dry Before Being in Contact With Steel Members.

6. All Doors and Windows, other than shown on this Plan shall be in Accordance With Applicable sheets of the Project Plans.

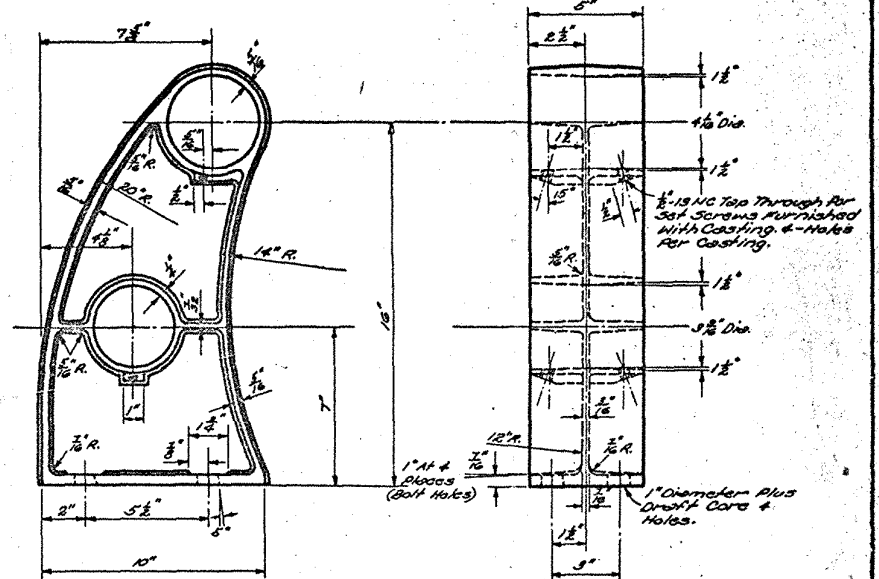
7. The Casing Shown is Same as Part 14, Appendix 1, except that the casing shall be a 4" x 6" x 1/2" Door Cover & Use of 1/2" x 1/2" x 1/2" Steel Screws to Hold Pipe Rail.

TYPE 5



ANCHOR BOLT DETAIL

RAIL CAPS

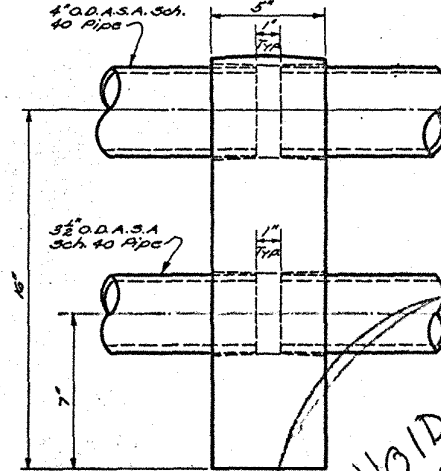


END ELEVATION

SIDE ELEVATION

NOTES:

1. Handrail Casing shall be Full Permanent Mold Castings of U.S. Aluminum Alloy 356-T6 & shall have a "Good Bright Finish." (ASTM B202 & T6, Alloy 356 T6A-T6)
2. Anchor Bolts, Nuts, Shims & Washers shall be Aluminum Bolts, Nuts, Shims & Washers, 6061-T6, Alloy 6061-T6, N1204, Aluminumite Finish (ASTM B211-52T, Alloy CG 42A-T6, and Given An Anodic Coating of Least 0.0002 Inches Thick of Chromate Sealcoat), Shims shall be of Alloy 100-0-4 (ASTM B209-52T, Alloy 100-0-4) and Bolts shall be of Alloy 2024-T6 (ASTM B209-52T, Alloy 2024 CG 42A-T6).
3. The Pipe Rails shall be 42A, A.S.A. F56 or A.S.A. Schedule 40, Aluminum Alloy 6063-T6. (ASTM B261, CG 104-T6)
4. The End Stopping Rail in End Caps shall be Stainless Steel with Socket Head & Cup End.
5. All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members shall be Thoroughly Coated With An Approved Aluminum Impregnating Coating Compound. All Steel Surfaces to be Healed & Coated With Concrete shall be Given A Heavy Coat of An Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, Allowed to Dry Before Applying the Concrete.
6. All Details for Handrailing, other than Staining in this Plan, shall be in accordance with Architect's details of the Project Plans.
7. The Contractor shall be responsible for Allowing 500% Extra Allowance of 1/4" Stainless Steel Screws to Hold Pipe Rails.



SIDE ELEVATION
SHOWING RAILS

VOID
w. 1.59
CEN

			STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS		
			DESIGNED	DETAILED <i>Robert</i>	TRACED <i>Lesley Hay</i>
DATE	DESCRIPTION	BY	CHECKED	CHECKED	CHECKED <i>Robert</i>
REVISIONS			BRIDGE DESIGN SECTION		