GENERAL NOTES

The horizontal members of the rail and posts shall be hollow structural tubing. All structural steel and tubing shall comply to A.S.T.M. Designation A36 or A500 Grade B respectively.

Rail shall be fabricated in lengths as shown.

Posts and bars shall be set vertical and shimmed if required.

The Handrail shall be sandblasted prior to painting.

The Handrail shall be painted shop and field with an inorganic zinc-vinyl paint system complying with the Standard Specifications for State Road and Bridge Construction, 1990 Edition Kansas Department of Transportation. Color of paint shall be "Black" and shall be approved by the Engineer before application.

Material and construction shall conform to the Structural Welding Code A.W.S. D1.1-88.

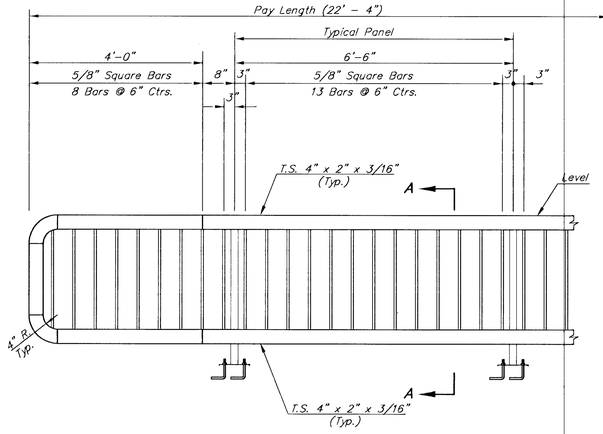
Shop details must be submitted to and approved by the Engineer.

All dimensions are ± and shall be field verified.

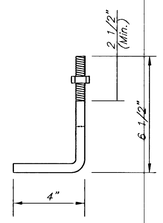
Class A Concrete (AE) - 4000 p.s.i. @ 28 days.

Rebar - A615, #4, Gr. 60

Chamfer exposed edges 3/4" (Typical).



Hand Rail Fabricator should coordinate location of achor bolts and/or base plates with the Wing Wall Contractor.

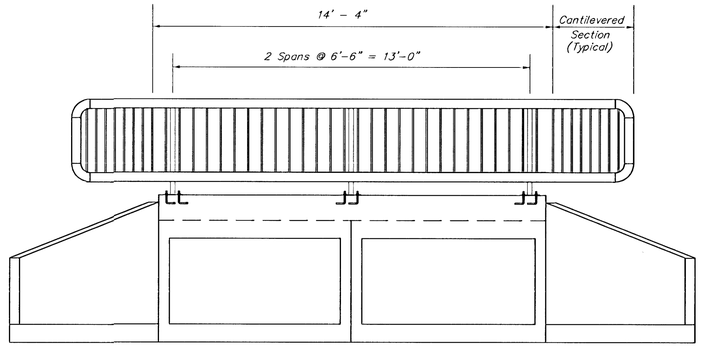


Galvanized (ATSM A153)

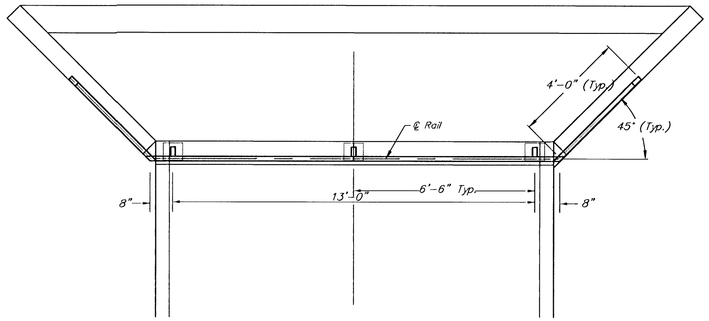
(May Substitute expandable anchor bolts when approved by the Engineer)

ANCHOR BOLT *

Orient to provide min. 2" edge clearance to either top of footing or adjacent bolts.



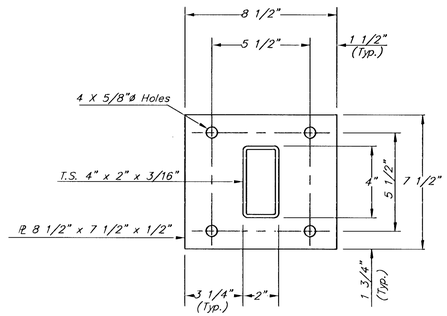
HANDRAIL DETAIL



HANDRAIL SECTION A-A

BASIS OF PAYMENT

The L.F. Bid Item "Handrail" shall include all labor, material, anchor bolts, fabrication, installation, concrete and etc. necessary to place the handrails as shown along the Reinf. Conc. Box Culvert.



BASE PLATE

(3 Required)

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472-76-245-83324	Handrail	F:\\Hydraulic\Pond

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB	Aziere	JFB	Sept 2001	None	99-09-E453

CAPITAL IMPROVEMENT PROJECT

HAND RAIL DETAIL

HYDRAULIC AVENUE PAVING - INCIDENTAL DRAINAGE PROJECT - PHASE 2

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 * 315 ELLIS * WICHITA, KANSAS 67211

SHEET 24 OF 47

F:\Eng\Hydraulic\Pond\Details\Handrail.dwg Mon Sep 17 13:17:58 2001