**ALTERNATIVE DETAILS**

- **TYPICAL DETAILS**
  - Pipe 1/2" t. n. s. sleeve sliding fit
  - 1/16" steel cable
  - Rod, pipe, and chain full loop around cable

- **ALTERNATIVE ANCHORAGE DETAIL**
  - Used when thickness of concrete is 7'-3" or more

- **SIDE VIEW**
  - Pipe handrail bracket
  - Pipe handrail elevation
  - Elevation

- **DETAIL H**
  - Plan
  - Elevation

- **TYPICAL POST DETAIL**
  - 1/16" vent in pipe
  - 1/8" hole

- **INTERMEDIATE POST**
  - 1/2" U bolt with hex nuts
  - Pocket 6" long
  - Pocket 6" long

- **END POST**
  - 1/8" bolt in ends
  - 11 Go steel wire ties

- **CHAIN LINK FABRIC**
  - 1" MESH
  - 1" mesh
g

- **JOINTS**
  - 1" vent exp at 16'-0" max
  - 3/4" x 6 x 1/3"
  - Pocket 6" long

- **ELEVATION**
  - Expansion sleeve provide for pipe handrail and concrete superstructure joint

- **NOTES:**
  1. Rolling shall conform to horizontal and vertical alignment.
  2. Horizontal pipes shall be bent if radius is 150'-0" or less, may be 6'-0" chords.
  3. When railings are on slope, fabric shall be placed parallel to slope.
  4. Alternative details may be submitted by Contractor for Engineer approval.

- **PREFABRICATED FABRIC**

- **PIPE HANDRAILING AT END**

- **PIPE HANDRAILING AT END**
  - Pipe 1 1/4" 5/6"
  - Pipe 2 1/2" Std

- **PLANS TO INCLUDE:**
  - Plan sheet
  - Plan sheet
  - Plan sheet

- **DATE PLOTTED:**
  - 14-Jul-2016

- **USERNAME:**
  - Username

- **FILE NO.:**
  - 801-160

- **REVISION DATES:**
  - Original scale in inches
  - Plans to include

- **FOR REDUCED PLANS:**
  - Earliest revision dates
  - August 2016

- **ALTERNATIVE DETAILS:**
  - Plan sheet

- **ENGINEERING SERVICES**
  - State of California

- **REVISION DATES:**
  - 7-13-16

- **NOTES:**

- **CONTACT NO.:**
  - 916-445-6000