

TYP BRIDGE SECTION
 Scale 3/16" = 1'-0"


General Notes

- Construction Specification**
 ADOT Standard Specification for Road and Bridge Construction, 2000 Edition, revised to date and The Special Provisions.
- Design Specifications**
 AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002.
- ADOT Bridge Group - Bridge Practice Guidelines.**
- Bridge Loadings**
 Dead Load - dead load includes allowance of 25 psf for future wearing surface.
- Loading Class - HS20-44**
- Composite Design - dead load carried by girders only.**
- Seismic Performance Category "A", acceleration coefficient A = 0.05.**
- Girders designed using transformed section properties**
- Concrete**
 All concrete shall be Class "S" unless noted otherwise.
 Construction joints shall be permitted only at indicated locations. Additional construction joints or changes to those shown shall be approved by the engineer. Sandblast all construction joints prior to placement of adjacent concrete. Chamfer all exposed concrete corners 3/4" per ADOT Std B19.10, UNCO.
- Reinforcing Steel**
 Reinforcing steel shall conform to ASTM Specification A615. All reinforcing steel shall be furnished as grade 60. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.
 All reinforcing steel shall have 2 inch clear cover unless noted otherwise.
 All bends & hooks shall meet the requirements of sheet S20.
- Structural Steel**
 Structural steel shall conform to ASTM Specification A58 unless noted otherwise. Structural rectangular tubing shall conform to ASTM A-500, Grade B. All welding shall conform to the requirements of the American Welding Society, AWS/AASHTO/AAS D1.3-93 Bridge Welding Code.
- Stresses**
 Deck Concrete (Class X) $f'_c = 4500$ psi ($f'_c = 1400$ psi)
 Abutments, Piers (Class S) $f'_c = 4000$ psi
 Drilled Shafts (Special Class S) $f'_c = 4000$ psi
 All other Class S concrete $f'_c = 3000$ psi
 Grade 60 rebar $f_s = 24,000$ psi ($f_s = 20,000$ psi for transverse deck reinforcing)
- Structural Steel**
 Prestressing steel $f_s = 20,000$ psi ($f_s = 270,000$ psi (1/2" dia 7-wire low relaxation strand))
- Foundations**
 Foundations shall be constructed in accordance with the construction specifications and project special provisions.
- Miscellaneous**
 Dimensions shall not be scaled from drawings.
- ADOT Standard Drawings**
 Wall drainage and corner chamfer, ADOT Standard B19.10.
 Combination Pedestrian - Traffic Bridge Railing, ADOT Standard SD 1.04 w/ sidewalk.
 Approach slab, ADOT Standard B19.11.

Bridge Section & General Notes

**Palo Parado Bridge
 at The Santa Cruz River**

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Designed by DRL
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Date 3/26/08
 Project No. 08-142
 Sheet No.

S2
 Sheet 2 of 2

