



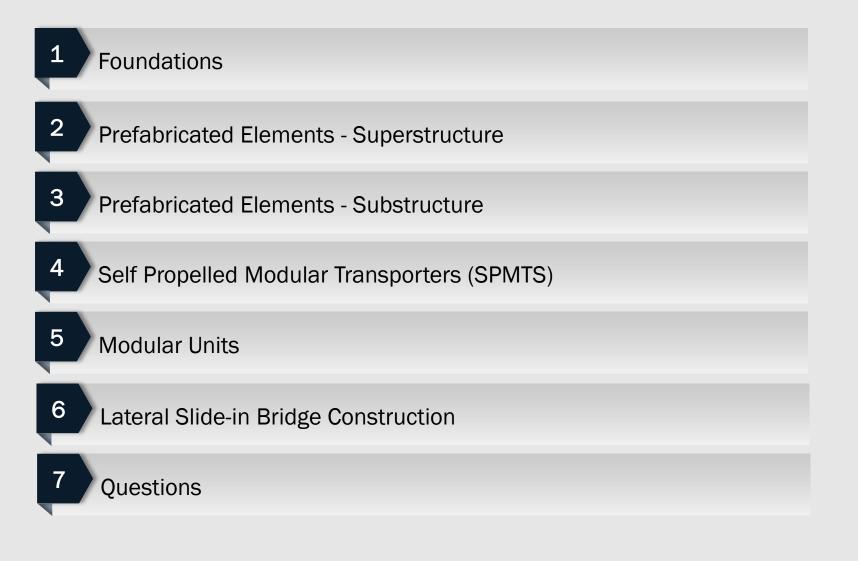


TXDOT ACCELERATED BRIDGE CONSTRUCTION

Jamie F. Farris, P.E.



February 27, 2018



Foundations: Steel and Precast/Prestressed Piling





Foundations: Precast Cylinder Piles

Copano Bay Bridge (first in TX) 54" and 66" dia.





Foundations: Large Monoshafts





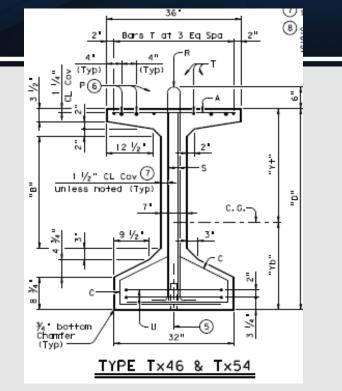
- 12 ft. dia. x 130 ft.
- IH 45 Clear Lake, TX

GIRDERS, BEAMS, AND DECKS

- Precast, Prestressed
 - I-Girders
 - Box Beams
 - X Beams
 - Slab Beams
 - Decked Slab Beams
 - U Beams
 - Precast Concrete Panels
 - Full Width, Full Depth Panels

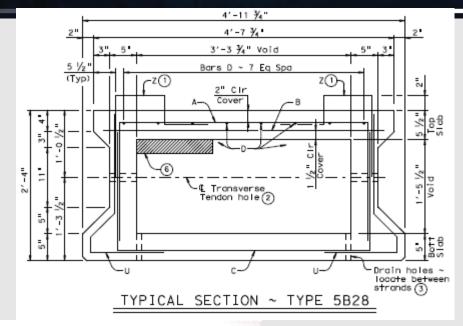
I-Girders







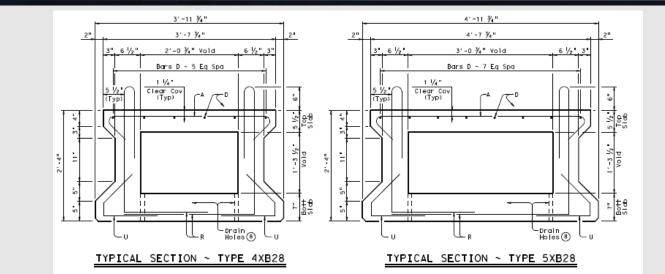
Box Beams

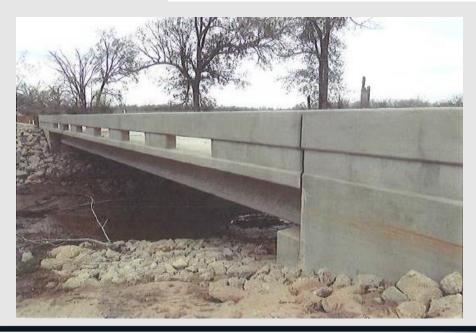






Spread Box Beam (X Beams)

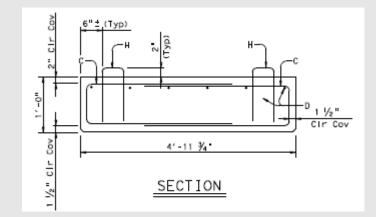






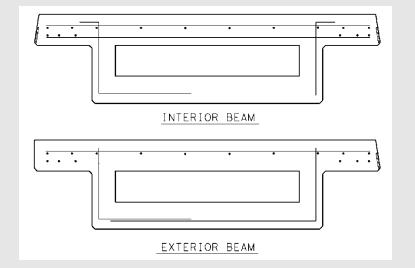
Slab Beams

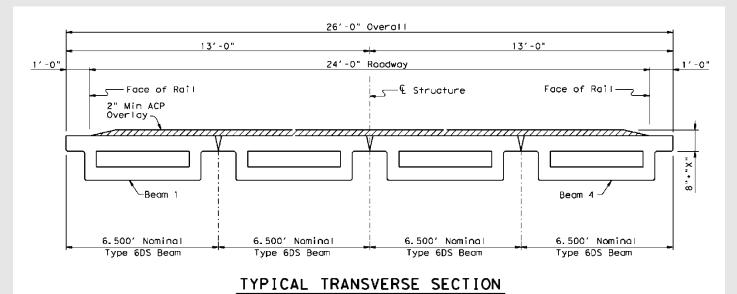






Decked Slab Beams





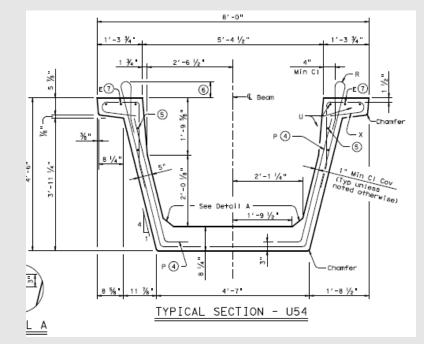
Decked Slab Beams





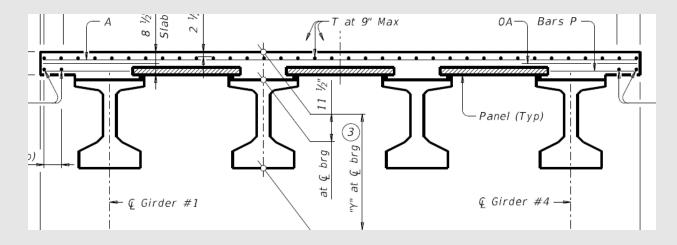


U Beams





Prestressed Concrete Panels





Prestressed Concrete Overhang Panels

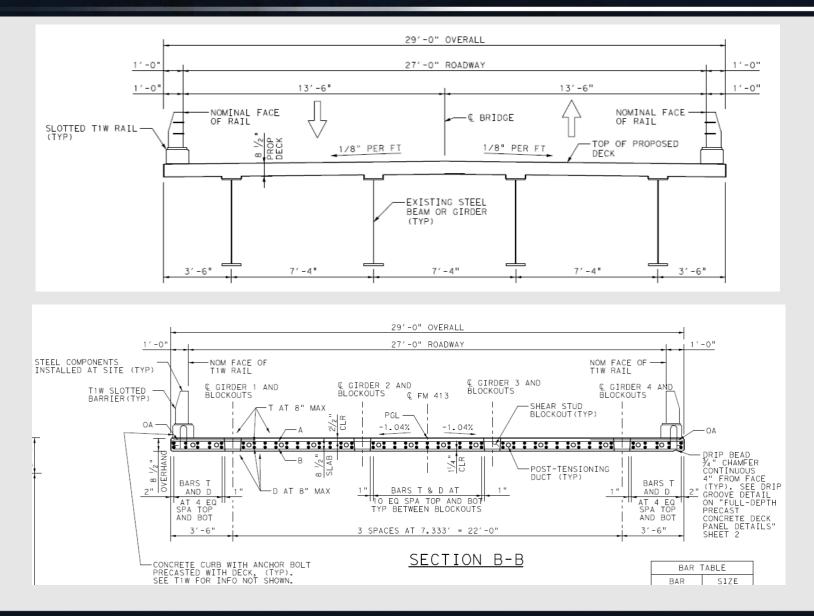


- Improved work area
- No overhang forms to strip
- TxDOT Standard

Full Width, Full Depth Panels – Ozona Live Oak Creek 2008



Full Width, Full Depth Panels – Upcoming Waco Project



PRECAST CAPS AND COLUMNS

Precast Bent Caps

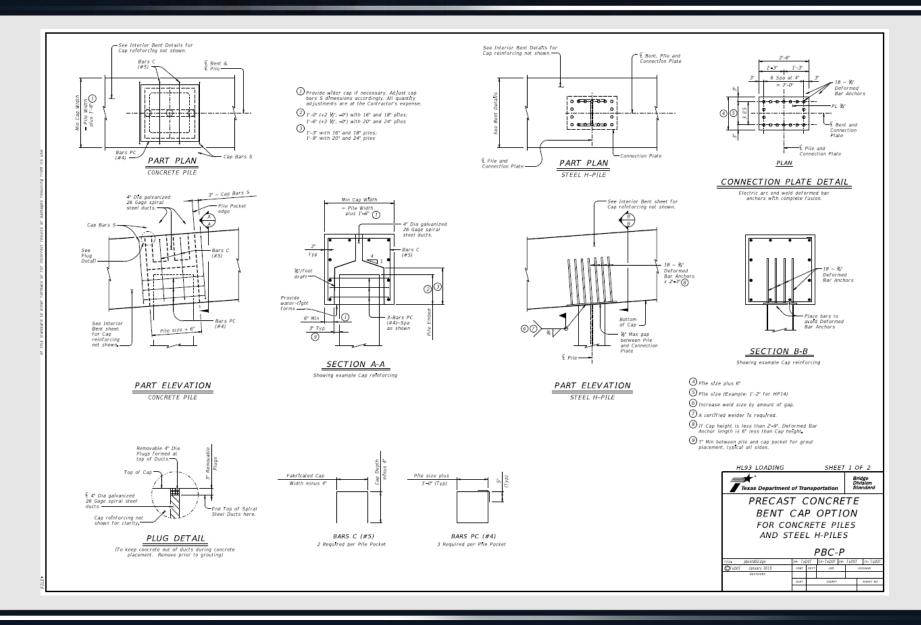






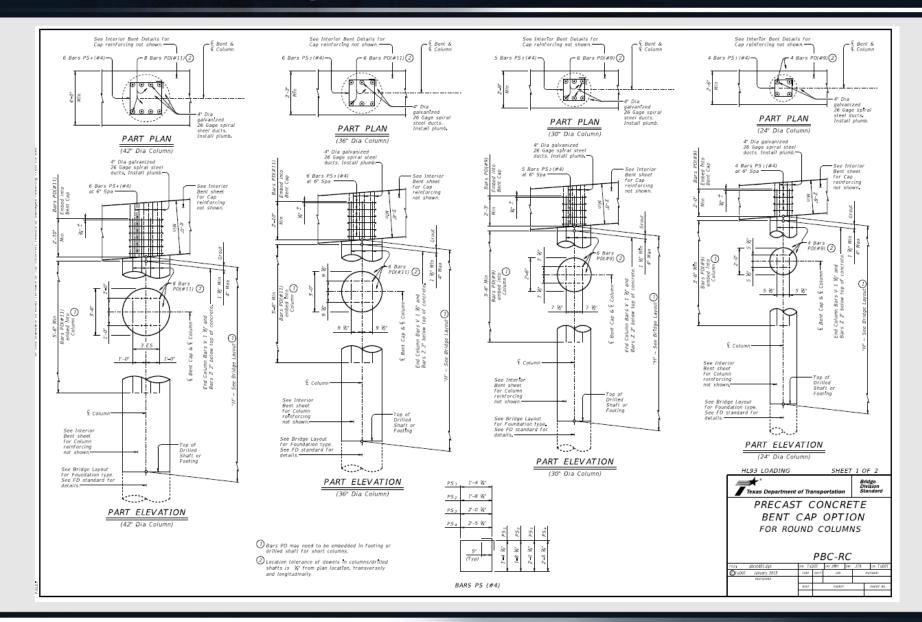


Standard Precast Cap Details for Conc Piles and Steel H Piles



21

Standard Precast Cap Details for Round Columns



Standard Precast Cap Details for Round Columns



Precast Abutments



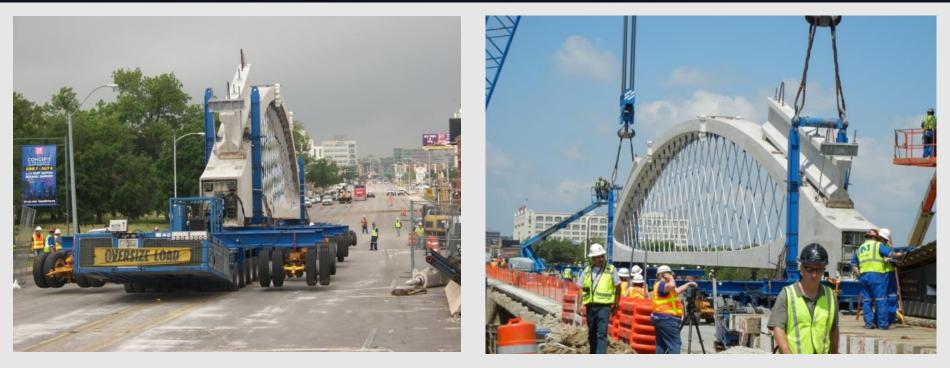


Precast Columns





SPMT – Fort Worth West 7th Street Arches

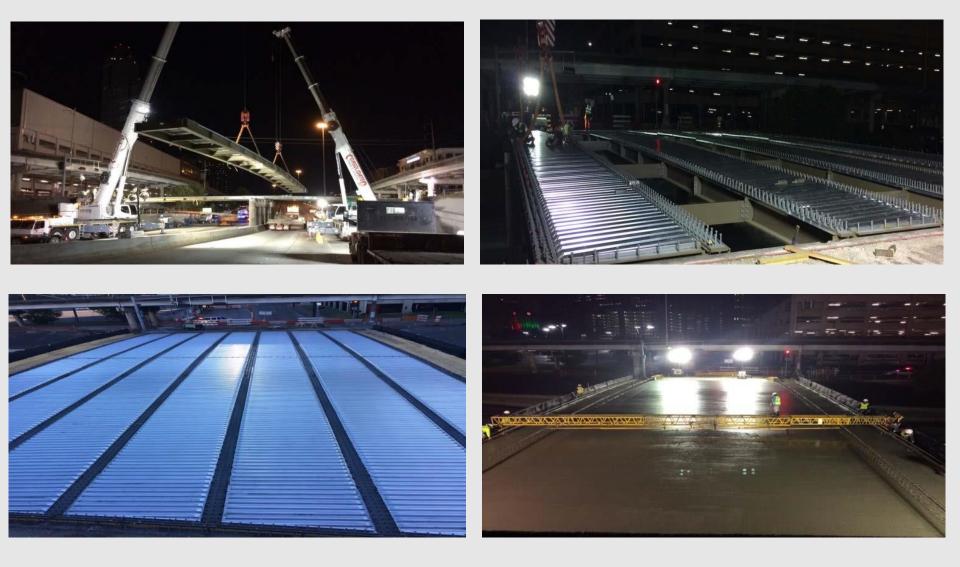




Modular Units (No Deck) – West Dallas St. in Houston



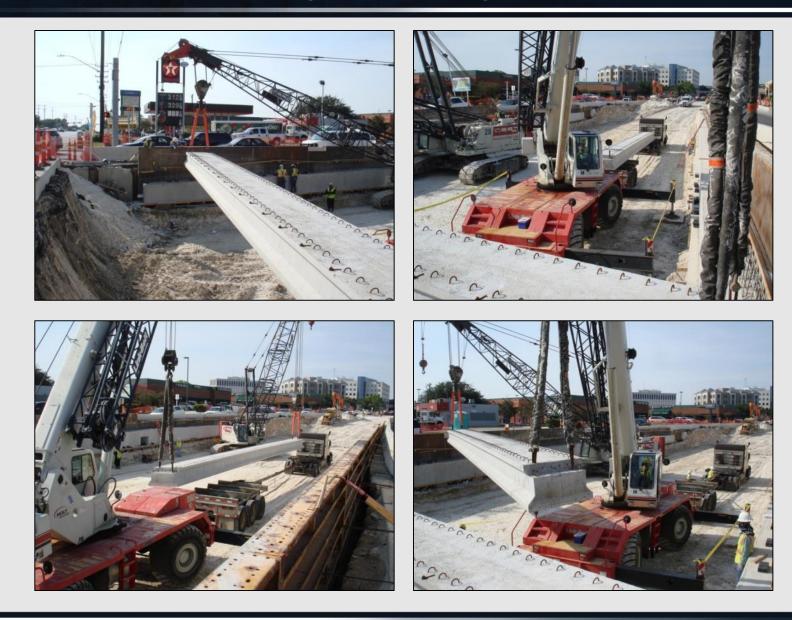
Modular Units – West Dallas St. in Houston



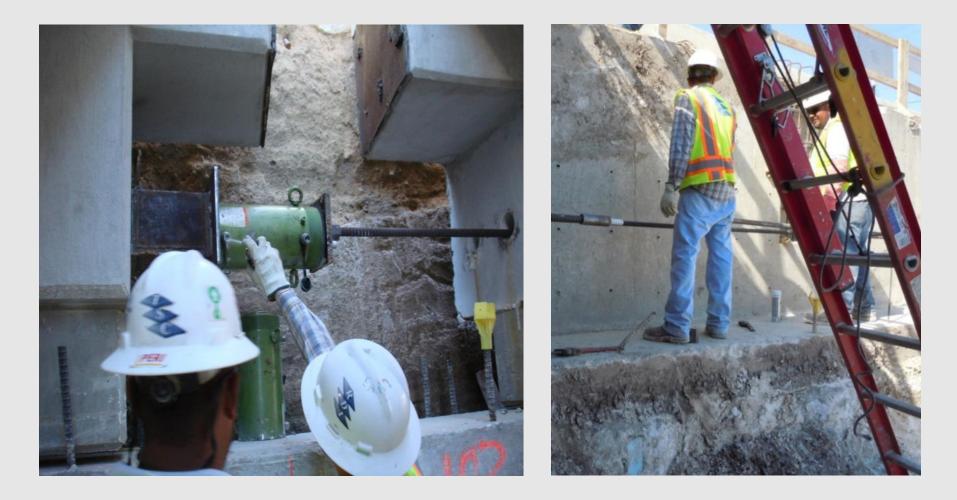
Lateral Slide-in – LP 345 (San Antonio)



Lateral Slide-in – LP 345 (San Antonio)



Lateral Slide-in – LP 345 (San Antonio)



Questions?



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For more

- TxDOT Bridge Design Manual LRFD <u>http://onlinemanuals.txdot.gov/txdotmanuals/lrf/lrf.pdf</u>
- TxDOT Bridge Division Website
 <u>http://www.txdot.gov/inside-txdot/division/bridge.html</u>
- TxDOT Bridge Standard Details

http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/bridge-e.htm

TxDOT Bridge Detailing Guide

http://ftp.dot.state.tx.us/pub/txdot-info/brg/design/bridge-detailing-guide.pdf