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**FILE:**

**SLOPE**

3:1

**2:1**

**GIRDER**

Tx46

Tx46

Tx40

Tx40

Tx34

**Type**

Cantilevered

Cantilevered

Cantilevered

Cantilevered

**Founded**

**Type**

roadway surface

Parallel to approach slab

**TOP OF CAP**

**SIDEWALL**

**BEARING SEAT DETAIL**

(Drainage material must be clean and free of all loose material before placing bearing pad.)

**REINFORCING STEEL**

Provide Grade 60 reinforcing steel.

Provide Class C (HPC) concrete if shown elsewhere.

Provide Class C concrete (f’c = 3,600 psi).

**MATERIAL NOTES:**

Provide Class C concrete (f’c = 3,600 psi).

Provide Class C (HPC) concrete if shown elsewhere in the plans.

Provide Grade 60 reinforcing steel.

Girder details shown are out-to-out of bars.

**COVER DIMENSIONS:**

Cover dimensions are clear dimensions, unless noted otherwise.

**Reinforcing bar dimensions shown are out-to-out of bars.**

**Table of Foundation Loads**

**Span/Length**

All Girder Types

<table>
<thead>
<tr>
<th>Span</th>
<th>Type</th>
<th>Lf</th>
<th>Pn</th>
<th>Ft</th>
<th>Pn</th>
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</table>

**GENERAL NOTES:**

- Designed according to AASHTO LRFD Bridge Design Specifications.
- See Bridge Layout for header slope and girder type.
- See Common Foundation Details (FD) standard sheet for all foundation details and notes.
- See Concrete Riprap (CRR) standard sheet or Stone Wall (SW) standard sheet for riprap attachment details, if applicable.
- See applicable rail details for rail anchorage in riprap.
- See Bridge Layout for actual skew direction.
- Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.
- These abutment details may be used with standard Bridge Layout for actual skew direction.
- Details are shown to clear piles.
- Increase as required to maintain 3" of air gap between girders.
- Tighten reinforcing steel total accordingly.
- Spacing based on girder type.
- Spacing at end of multi-span unit.
- Adjust reinforcing steel total accordingly.
- Provide Grade 60 reinforcing steel.
- Provide Class C (HPC) concrete if shown elsewhere.
- Provide Class C concrete (f’c = 3,600 psi).
- Reinforcing bar dimensions shown are out-to-out of bars.
- Cover dimensions are clear dimensions, unless noted otherwise.
- Reinforcing bar dimensions shown are out-to-out of bars.
- Provide Class C (HPC) concrete if shown elsewhere.
- Provide Grade 60 reinforcing steel.
- Girder details shown are out-to-out of bars.
- Cover dimensions are clear dimensions, unless noted otherwise.
- Reinforcing bar dimensions shown are out-to-out of bars.
- Provide Class C concrete (f’c = 3,600 psi).
- Provide Class C (HPC) concrete if shown elsewhere in the plans.
- Provide Grade 60 reinforcing steel.
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**FILE:**
- **DATE:**
- **CAP BACKWALL**
  - **Section B-B**
  - **Corner Details**
  - **Wingwall Elevation**

**ABUTMENTS**
- **Type TX28 Thru TX54**
- **Prestr Conc I-Girders**
- **40° ROADWAY 30° SKEW**

**AIG-40-30**

**See Table A for length "WL"**

- Bars wV & wV
- Bars S
- Bars wS
- Bars U
- Bars L2
- Bars L1

- Spacing
  - Parallel to roadway grade
  - Perpendicular to roadway grade

- See Span Details for "Y" value.
- Spacing based on girder type:
  - Tx28 ~ 3 spaces at 1'-0" Max
  - Tx40 ~ 4 spaces at 1'-0" Max
  - Tx46 ~ 4 spaces at 1'-0" Max
  - Tx54 ~ 5 spaces at 1'-0" Max

- Field bend as needed to clear piles.
- Adjust as required to avoid stringing.

**HL93 LOADING**

**Sheet 2 of 3**

**TxDOT State Highway Standard**

**Contractor's Cap may be cast in hole at Contractor's option.**

*Adjust as required to avoid stringing.*

**See Span Details for "Y" value.**

**Spacing based on girder type:**
- Tx28 ~ 3 spaces at 1'-0" Max
- Tx40 ~ 4 spaces at 1'-0" Max
- Tx46 ~ 4 spaces at 1'-0" Max
- Tx54 ~ 5 spaces at 1'-0" Max
### TABLES OF ESTIMATED QUANTITIES WITH 2:1 HEADER SLOPE

<table>
<thead>
<tr>
<th>TYPE Tx28 Girders</th>
<th>TYPE Tx34 Girders</th>
<th>TYPE Tx40 Girders</th>
<th>TYPE Tx46 Girders</th>
<th>TYPE Tx54 Girders</th>
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Reinforcing Steel:
- Class "C" Concrete
- CT 25.7

### TABLES OF ESTIMATED QUANTITIES WITH 3:1 HEADER SLOPE

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Reinforcing Steel:
- Class "C" Concrete
- CT 26.7

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2. Quantities shown are for one abutment only (both approach sides). With no approach span, add 1.8 CY Class "C" concrete and 264 lbs reinforcing steel to approach slab, add 1.8 CY Class "C" concrete.