



GENERAL NOTES :

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| TRWCB 8-6-87   | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 8' SPAN.                                                                                        |
| TRWCB 8-8-87   | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 8' SPAN.                                                                                        |
| TRWCB 8-10-87  | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 8' SPAN.                                                                                        |
| TRWCB 10-6-87  | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 10' SPAN.                                                                                       |
| TRWCB 10-8-87  | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 10' SPAN.                                                                                       |
| TRWCB 10-10-87 | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 10' SPAN.                                                                                       |
| TRWCB 10-12-87 | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 10' SPAN.                                                                                       |
| TRWCB 12-6-87  | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 12' SPAN.                                                                                       |
| TRWCB 12-8-87  | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 12' SPAN.                                                                                       |
| TRWCB 12-10-87 | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 12' SPAN.                                                                                       |
| TRWCB 12-12-87 | CULVERT BARREL DETAILS,<br>VARIABLE DIMENSIONS AND QUANTITIES TABLE - 12' SPAN.                                                                                       |
| TWH 0-1-87     | DIMENSION TABLE.                                                                                                                                                      |
| TWH 0-2-87     | CURTAIN WALL DETAILS AND<br>PLAN VIEW - APRON REINFORCING, TOP & BOTTOM.                                                                                              |
| TWH 0-3-87     | TYPICAL VIEW - FRONT & BACK FACE REINFORCING, WINGWALLS, CENTER WALL.<br>TYPICAL SECTION - NEAR CENTER OF APRON, TOP OF WINGWALL DETAILS<br>AND SECTION THRU PARAPET. |
| TWH 0-4-87     | BENT BAR DETAILS AND<br>BILL OF REINFORCING FOR ONE HEADWALL, 0° SKEW - 12', 10' & 8' SPANS.                                                                          |
| TWH 15-1-87    | DIMENSION TABLE.                                                                                                                                                      |
| TWH 15-2-87    | PLAN VIEW - APRON REINFORCING TOP & BOTTOM.                                                                                                                           |
| TWH 15-3-87    | TYPICAL SECTION - NEAR CENTER OF APRON, SECTION THRU PARAPET,<br>TOP OF WINGWALL DETAILS AND CURTAIN WALL DETAILS.                                                    |
| TWH 15-4-87    | TYPICAL VIEWS - FRONT & BACK FACE REINFORCING, SHORT &<br>LONG WINGWALL, CENTER WINGWALL.                                                                             |
| TWH 15-5-87    | BENT BAR DETAILS AND<br>BILL OF REINFORCING FOR ONE HEADWALL, 15° SKEW - 12', 10' & 8' SPANS.                                                                         |

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| TWH 30-1-87 | DIMENSION TABLE.                                                                                                |
| TWH 30-2-87 | PLAN VIEW - APRON REINFORCING TOP & BOTTOM.                                                                     |
| TWH 30-3-87 | TYPICAL SECTION - NEAR CENTER OF APRON, SECTION THRU PARAPET, TOP OF WINGWALL DETAILS AND CURTAIN WALL DETAILS. |
| TWH 30-4-87 | TYPICAL VIEWS - FRONT & BACK FACE REINFORCING, SHORT & LONG WINGWALL, CENTER WINGWALL.                          |
| TWH 30-5-87 | BENT BAR DETAILS AND BILL OF REINFORCING FOR ONE HEADWALL, 30° SKEW - 12', 10' & 8' SPANS.                      |
| TWH 45-1-87 | DIMENSION TABLE.                                                                                                |
| TWH 45-2-87 | PLAN VIEW - TOP OF APRON REINFORCING.                                                                           |
| TWH 45-3-87 | PLAN VIEW - BOTTOM OF APRON REINFORCING.                                                                        |
| TWH 45-4-87 | TYPICAL SECTION - NEAR CENTER OF APRON, SECTION THRU PARAPET, TOP OF WINGWALL DETAILS AND CURTAIN WALL DETAILS. |
| TWH 45-5-87 | TYPICAL VIEWS - FRONT & BACK FACE REINFORCING, SHORT & LONG WINGWALL, CENTER WINGWALL.                          |
| TWH 45-6-87 | BENT BAR DETAILS AND BILL OF REINFORCING FOR ONE HEADWALL, 45° SKEW - 12', 10' & 8' SPANS.                      |
| TWCBJ 1-87  | CULVERT BELL JOINT DETAILS AND ESTIMATE OF QUANTITIES TABLE - 8' SPAN.                                          |
| TWCBJ 2-87  | CULVERT BELL JOINT DETAILS AND ESTIMATE OF QUANTITIES TABLE - 10' & 12' SPANS.                                  |
| TWCBJ 3-87  | PERMISSIBLE CULVERT BELL JOINT DETAILS.                                                                         |

DESIGN STRESSES :

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 1983:

REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60.  
CONCRETE IN ACCORDANCE WITH SECTION 8,  $f'_c = 3,500$  PSI.

TWRCB-GI-87

**LATEST REVISION DATE :**

William A. Lundquist