Replace existing structure.

Remove cross-hatched portion of existing structure to breakback line and replace with new materials as shown elsewhere in plans.

Overall length of bridge: 585'-5".

7 - 31'-0" reinforced concrete girders spans - 217'-0".

217'-0" concrete rail.

Approximate ground line.

TYPICAL TRANSVERSE SECTION

EAST ABUTMENT

ELEVATION
TYPICAL TRANSVERSE SECTION

- Remove cross-hatched portion of existing structure to breakback line and replace with new materials as shown elsewhere in plans.

OVERALL LENGTH OF BRIDGE = 585'-5"
- 31'-0" REINF CONC GIRDERS SPANS = 211'-0"

- 150'-0" STEEL TRUSS = C/C BEARING
- 400'-0" STEEL PEDESTRIAN RAIL

WATER LINE ELEV = 1798.00

Texas Department of Transportation
Bridge Division

BRIDGE LAYOUT
LONE WOLF BRIDGE

ELEVATION
NOTE
Core shall be taken not to damage end diaphragms when removing exterior beams, and to avoid casting reinforcement into new concrete.

SECTION A-A

*Remove and replace portion of Existing Structure to Breakback Line. Clean and straighten Existing Reinforcing a minimum of 1'-0" into new construction.

NOTE
Remove existing concrete to the breakback line shown. After removing the asphalt overlay, the breakback line shall be cut (scored) to a depth of 1". After scoring, remove existing concrete from the development of reinforcing. Reinforcement shall be cleaned and bent into new concrete, and contractor shall be responsible for making sure all debris is captured and removed. Core shall be taken so that existing reinforcement extending from the portion of the existing structure to remain is not damaged. Clean and bend this existing, exposed reinforcement a minimum of 1'-0" into new construction. Clean the remaining portion of all joints and resail as needed, in accordance with Item 438, "Cleaning and Sealing Joints and Cracks."

*Replace Exist Struct
**NOTE:** Roughen outside of PVC with coarser asperity equal to ensure bond with cast-in-place concrete.
LONE WOLF BRIDGE

PLAN

TYPICAL TRANSVERSE SECTION

REPLACE EXISTING STRUCTURE

REPLACE EXISTING STRUCTURE

BREAKBACK LINE

BREAKBACK LINE

CONC PED RAIL

CONC PED RAIL

REPLACE EXISTING STRUCTURE

BREAKBACK LINE

BREAKBACK LINE

REPLACE EXISTING STRUCTURE

REPLACE EXISTING STRUCTURE

OVERALL LENGTH OF BRIDGE = 585'-5"

7 = 31'-0" REINFORCED CONCRETE GIRDERS SPANS + 217'-0"

217'-0" CONC PED GIRDERS

APPROXIMATE GROUND LINE

WEST ABUTMENT

1830
1820
1810
1800
1790
1780
1770

1830
1820
1810
1800
1790
1780
1770

Texas Department of Transportation
Bridge Division

FILE 6699L101

© ThOOT JUNE 2006

PROJECT SHEET

DI AGRAE

J. L. GREEN

09-01 24 026

SHEET 3 OF 3
## SUMMARY OF ESTIMATED QUANTITIES

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<tr>
<th>BRIDGE ELEMENT</th>
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Texas Department of Transportation

Bridge Division

ESTIMATED QUANTITIES

LONE WOLF BRIDGE

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<th>ITEM</th>
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P.E. SEAL REQUIRED

PRELIMINARY

SUBJECT TO REVISION

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TABLE OF STEEL MEMBERS

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<tr>
<td>FLOOR BEAMS</td>
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TRUSS SPAN REMOVAL

Prior to beginning the work, the Contractor shall submit proposed repair procedures to the Engineer of Record for approval. Submission shall include proposed heating patterns, method of providing external force and equipment. The Contractor shall also submit proposed work procedures, sequence of work to be followed, and plans for performing the work.

Repair, replace, and heat-straighten truss members as shown in "Key to Truss Member Repairs" table in accordance with the provisions of Item 784 "Repairing Steel Bridge Members" and as shown in these plans. No cold forming or bending of any truss member is permissible. All straightening of bent truss members shall be done by not mechanical or flame straightening as per Item 784.

Rivets which must be removed or are missing shall be replaced with ASTM A325 High Strength round headed bolts of the same diameter and located as per Item 447, "Structural Bolting." Damaged rivet bolts may be removed by drilling or flame cutting the rivet bolt heads and then driving the rivet bolt shanks from the hole.

Repair, replace, and heat-straighten truss members as shown in "Key to Truss Member Repairs" table in accordance with the provisions of Item 784 "Repairing Steel Bridge Members." No welding to any steel bridge member shall be allowed. Care shall be taken to avoid damaging any steel members. Any damage caused by the Contractor's operations shall be repaired as directed by the Engineer at the Contractor's expense.

All repairs to damaged steel bridge members shall be in accordance with Item 784, "Repairing Steel Bridge Members.

Cleaning and painting of steel members in accordance with the provisions of Item 448, "Cleaning and Painting Steel." Provide appearance coat to all steel surfaces to be painted. Use oil free and dry high pressure air to blow all moisture from joints and connection.

Remove debris, mill scale, corrosion, and paint rust from the bearing areas, and floor beam/rail connections using an approved surface preparation method. A zero degree nozzle is required. Clean and paint all bearers. Stagger Bracket to 1000tions.

Submit for approval plans and procedures for cleaning and painting steel. Include water and waste containment plans, painting methods, and all equipment. The Contractor shall have a zero degree nozzle to blow all moisture from joints and connections.

Apply appearance coat to all steel surfaces to be painted. Apply urethane appearance coat to all exposed steel surfaces.

Bridge Rehabilitation

SECTION A-A

ELEVATION OF FENCE

TRUSS REHABILITATION

DETAILS

LONE WOLF BRIDGE
CONCRETE PEDESTRIAN RAIL DETAILS

PARTIAL PLAN

SECTION A-A (Showing Reinforcing Steel)

SECTION B-B

ELEVATION VIEW OF RAILS

LONE WOLF BRIDGE

Texas Department of Transportation
Bridge Division

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It is hereby ordered that it be used for planning purposes only.

P. E. SEAL
REQUIRED

FACE OF BACKWALL
Abut No. 1 or 12

1 1/2" Dia Soft 80 Pipe

See Handrail Bracket Detail

3 1/2" Embedment

3 1/2" Embedment

2" Cl. Con

2" Cl. Con

3 1/2" Embedment

1/2" Chanfer
(Typ all sides)

1/2" Chanfer
(Typ all sides)

1/2" Threaded
Epoxy Anchor

2 1/2" ACP

SECTION B-B

ELEVATION

TYPICAL HANDRAIL

HANDRAIL TERMINATION

HANDRAIL TRANSITION

PARTIAL ELEVATION

SECTION A-A (Showing Dimensions)

SECTION A-A (Showing Reinforcing Steel)