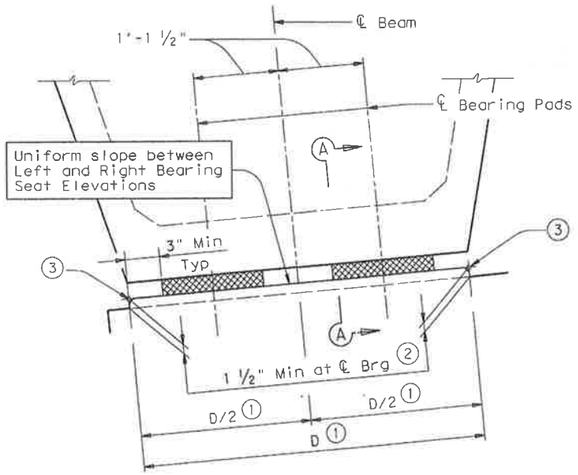
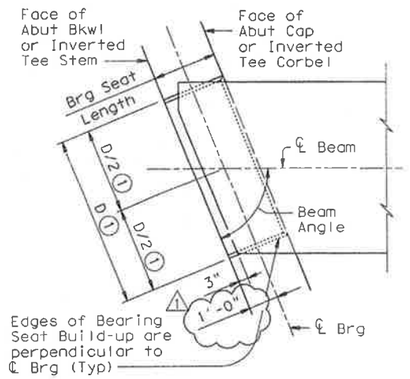
LEVELS DISPLAYED

PATH:



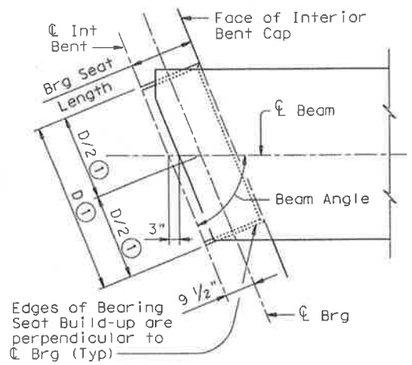

## BEARING SEAT DETAIL

Looking up-station with two-pad condition.




BEAM END DETAIL

(At Abutment Backwall or Inverted Tee Stem)




BEAM END DETAIL

(At Conventional Bent)

## BEARING SEAT DIMENSION "D" ④

| BEAM ANGLE | "D" |
|---|---|
| 75° + thru 90° | 4'-6" |
| 60° + thru 75° | 5'-0" |
| 45° thru 60° | 5'-6" |

① Measured along ℄ of Bearing.

② Reinforce bearing seat build-ups greater than 3" high with #4 bars at 12" Max Spa as per Item 420, "Concrete Structures".

③ See Estimated Quantities and Bearing Seat Elevations sheet for right and left elevations and locations.

④ Unless noted otherwise in the plans.

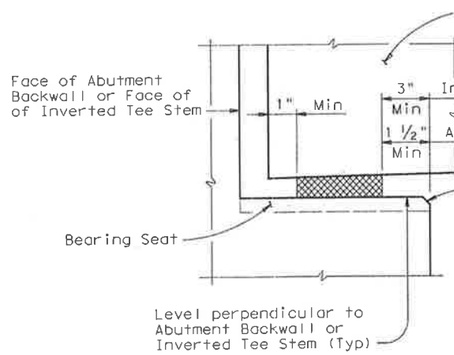
⑤ Locate permanent mark here.

⑥ Fabricated pad top surface slope must not vary from plan bearing pad taper by more than $\left(\frac{0.0625"}{\text{Length}}\right)$ (IN/IN).

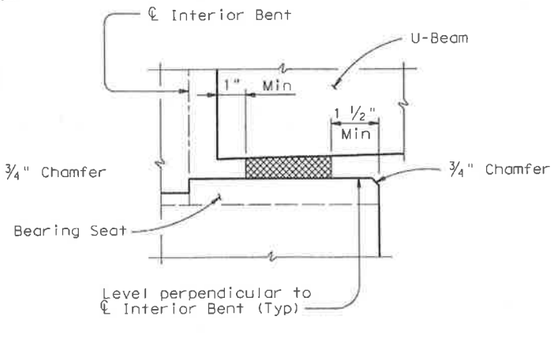
⑦ Place 0.105" thick steel laminates parallel to the bottom surface of the pad, except the top laminate(s) may be sloped to satisfy maximum and minimum thickness criteria for tapered elastomeric layers.

⑧ Indicate BEARING TYPE on all pads. For tapered pads, locate BEARING TYPE on the high side. The Fabricator must include the value of "N" (amount of taper in ⅛" increments) in this mark.
Examples: N=0, (for 0" taper)
N=1, (for ⅛" taper)
N=2, (for ¼" taper)
(etc.)

## BEARING DIMENSIONS

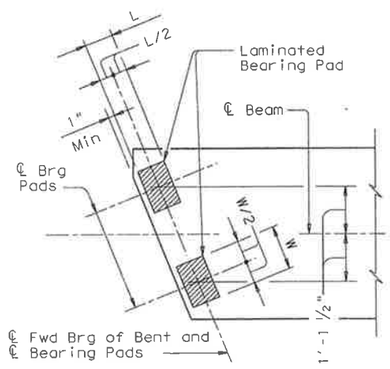



AT ABUTMENT OR INVERTED TEE BENT



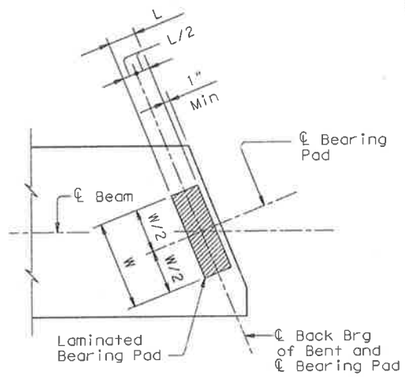

AT CONVENTIONAL BENT

## SECTION A-A




TWO-PAD DETAIL

Type U2-"N" Bearing

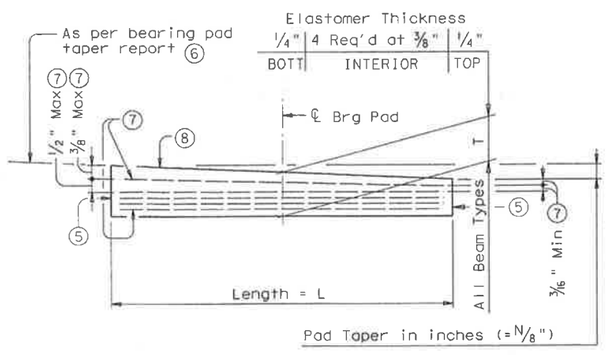



ONE-PAD DETAIL

Type U1-"N" Bearing

## BEARING PAD DETAILS

Place one bearing at forward station beam end.
Place two bearings at back station beam end.




## LAMINATED BEARING PAD

(50 DUROMETER)

## TABLE OF ELASTOMERIC BEARING PAD DIMENSIONS (ALL U-BEAM TYPES)

| One-Pad (Ty U1-"N") ⑧ | | | Two-Pad (Ty U2-"N") ⑧ | | |
|---|---|---|---|---|---|
| W | L | T | W | L | T |
| 32" | 9" | 2 ½" | 16" | 9" | 2 ½" |

04-29-10

STATE OF TEXAS
ERIC S. CHRISTIANSEN
85412
LICENSED
PROFESSIONAL ENGINEER

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GENERAL NOTES:

Shop drawings for approval are required.

Finish Bearing Surface with a wood float finish. Bearing Surface must be clean and free of all loose material before placing Bearing Pads.

For Transition Bents with backwall, the beams and elastomeric bearing pads must receive the same treatment as shown for Abutments.

See Bearing Pad Taper Report sheet for Fabricator's Report of bearing pad taper.

A bearing layout which identifies location and orientation of all bearings will be developed by the bearing fabricator. Permanently mark each bearing in accordance with the bearing layout. Provide a copy of the bearing layout to the Engineer.

Cost of furnishing and installing elastomeric bearings is included in unit price bid for "Prestressed Concrete U-Beams".

Note: The use of Polyisoprene (natural rubber) for the manufacture of bearing pads is not permitted.

| Modifications | ESC | 04/29/10 |
|---|---|---|
| ⚠1 Chaged distance from L bearing to face of backwall to 1'-0" | | |

HL93 LOADING

Texas Department of Transportation
Bridge Division

# ELASTOMERIC BEARING AND BEARING SEAT DETAILS
## PRESTR CONC U-BEAMS

## UBEB (MOD)

| FILE: ubstde02.dgn | DN: TxDOT | CK: TxDOT | DW: TxDOT | CK: TxDOT |
|---|---|---|---|---|
| ©TxDOT July 2006 | DISTRICT | FEDERAL AID PROJECT | | SHEET |
| REVISIONS | | | | S4-22 |
| | COUNTY | CONTROL | SECT | JOB | HIGHWAY |
| | | | | | |