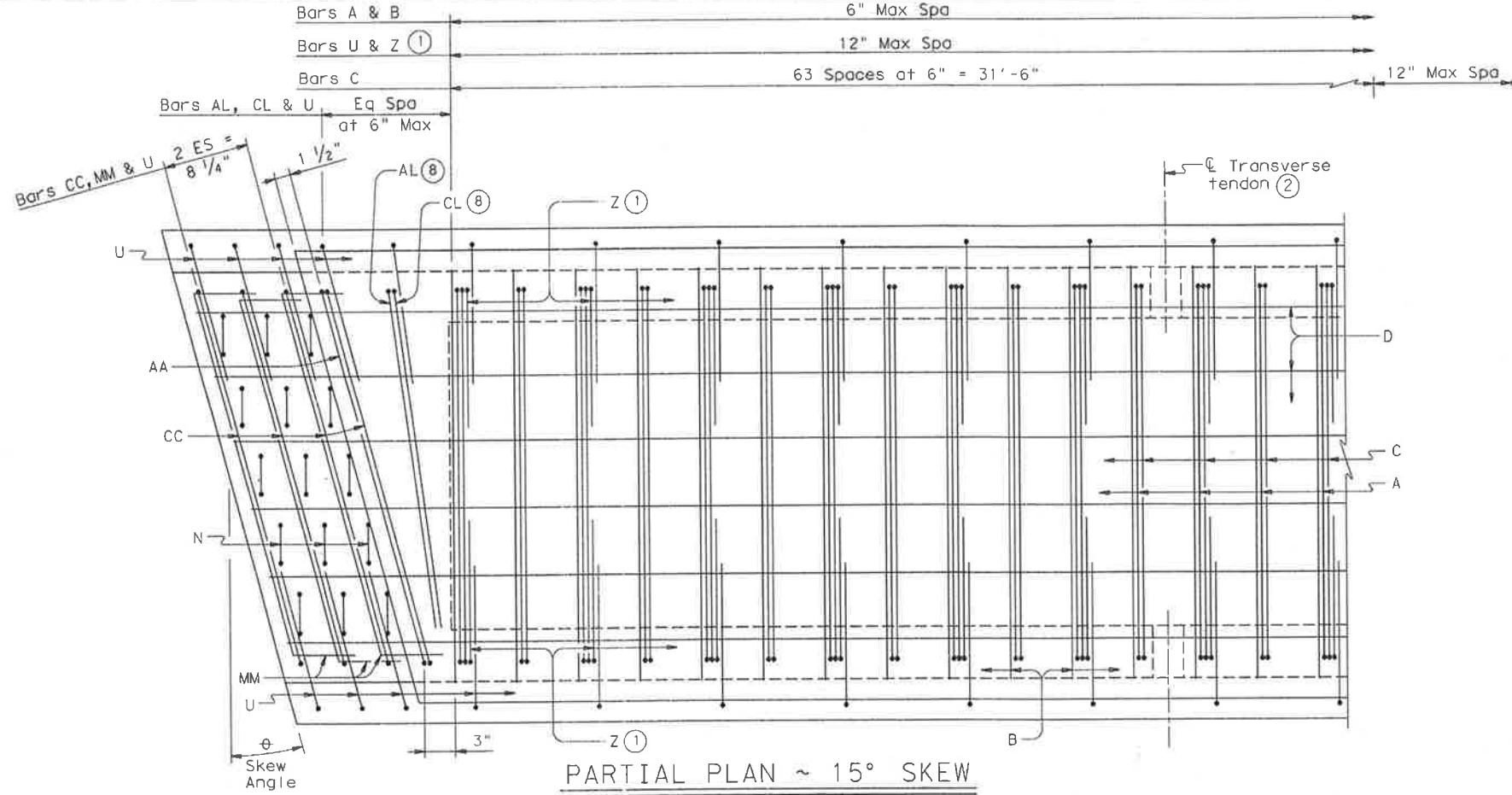
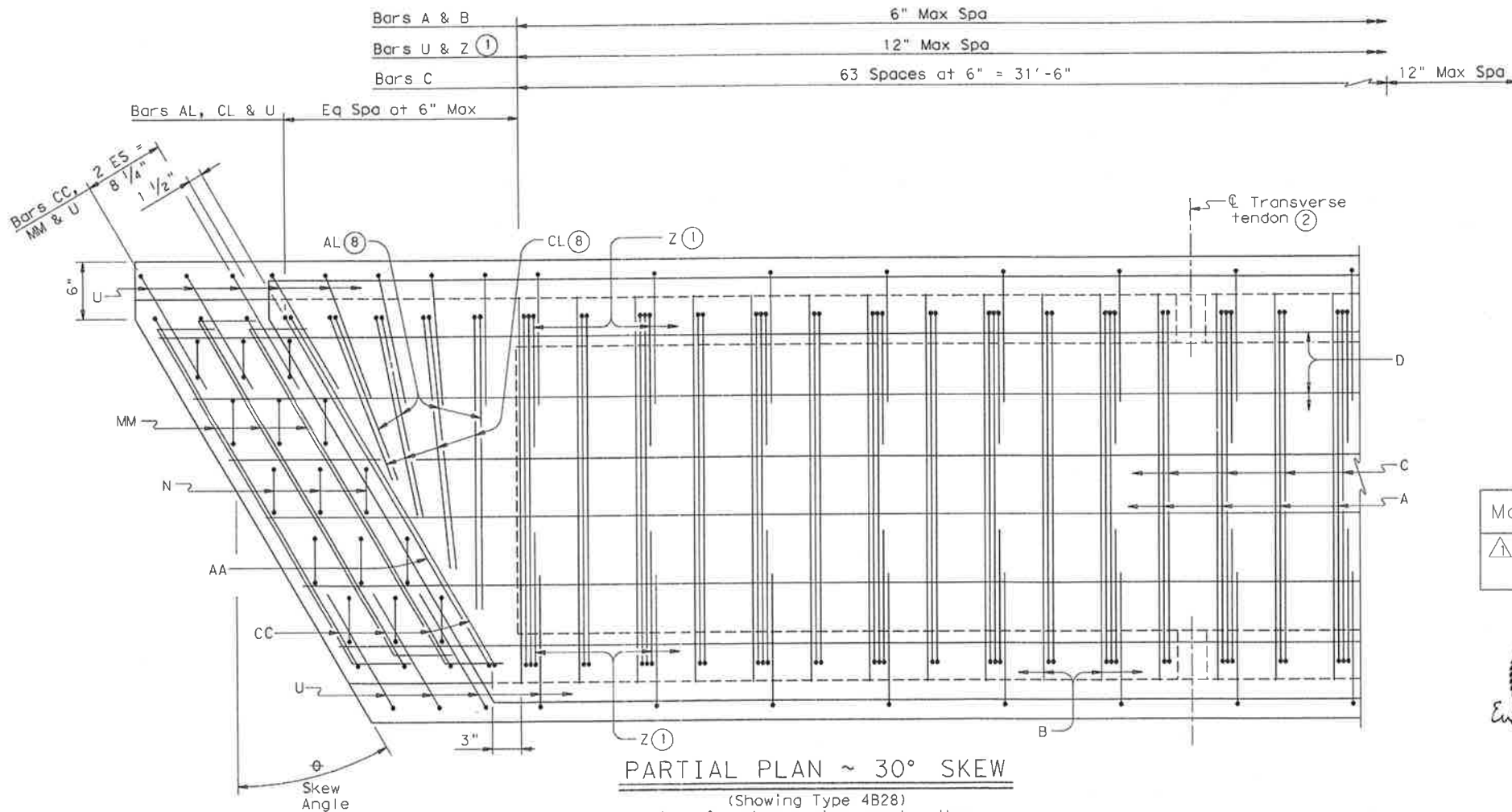


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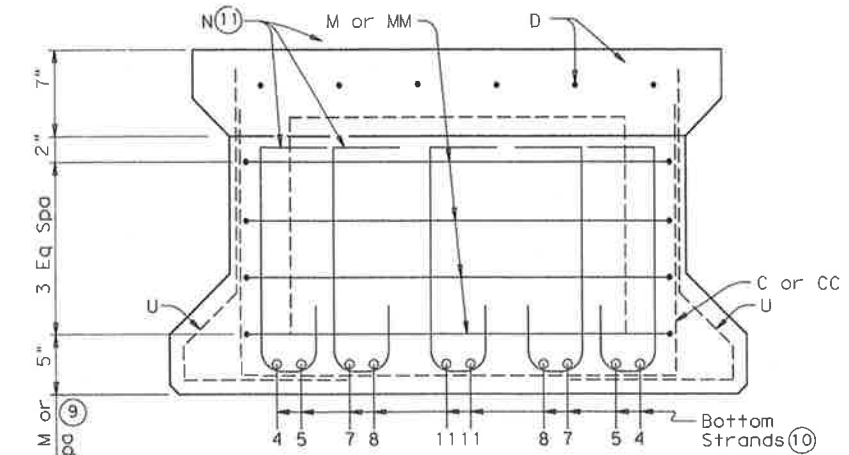
PARTIAL PLAN ~ 15° SKEW

(Showing Type 4B28)
(use for skew angles of 15° or less)



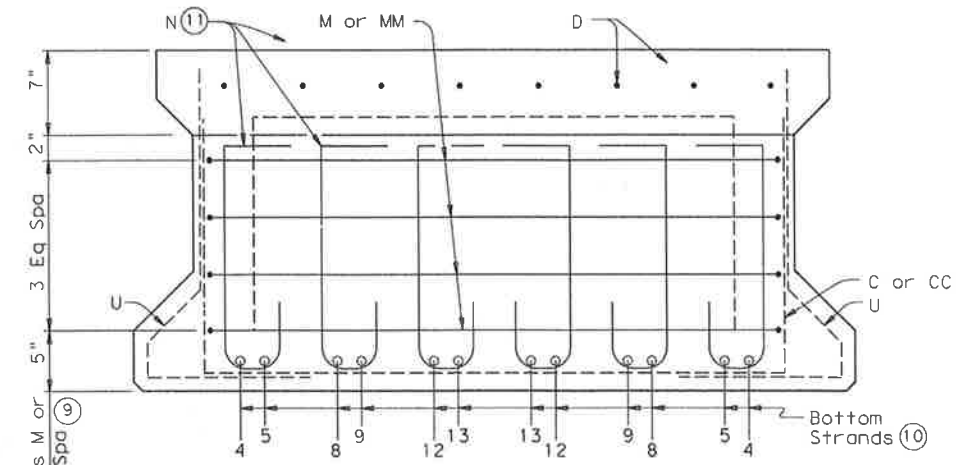
PARTIAL PLAN ~ 30° SKEW

(Showing Type 4B28)
(use for skew angles greater than 15° and less than or equal to 30°)



SECTION THRU BLOCKOUT ~ TYPE 4B28

(Showing End Mat Reinforcing)



SECTION THRU BLOCKOUT ~ TYPE 5B28

(Showing End Mat Reinforcing)

- ① Bars Z are required for beams topped with a cast-in-place concrete slab only.
- ② Post-tensioning tendons are required for beams not topped with a Min 5" cast-in-place concrete slab. See span details for number and spacing of transverse tendons. Cast interior diaphragms in exterior beams and beams that serve temporarily as exterior beams in staged constructed bridges. See "Blockout, Interior Diaphragm, and Drain Details". Form 3" Dia holes in interior beams. See standard BBPT for details.
- ⑧ Cut as required to maintain one inch clear between bars.
- ⑨ Bars M may be adjusted vertically as required to avoid pretensioning strands in web.
- ⑩ See standard BBND or appropriate Prestressed Concrete Box Beam Standard Designs sheet for locations of pretensioning strands.
- ⑪ For Type 4B28 Box Beams: Bars N may be reduced to 4 bars per row when beam design contains fewer than 22 strands. In this case, place Bars N at the 5-6 and 8-9 strand locations.
For Type 5B28 Box Beams: Bars N may be reduced to 5 bars per row when beam design contains fewer than 28 strands. In this case, place Bars N at the 4-5, 9-10 and 14-14 strand locations.

Modifications ESC 04/29/10

△ Revised Z bar



04-29-10

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HL93 LOADING SHEET 2 OF 3

Texas Department of Transportation
Bridge Division
**PRESTRESSED CONCRETE
BOX BEAM DETAILS
(TYPE B28)**

BB-B28 (MOD)

FILE: obstd02.dgn	DN: TxDOT	CK: TxDOT	DR: TxDOT	CR: TxDOT
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