

BEARING STIFFENER DETAILS

DETAIL SHOWN AT INTERIOR BEAM. OMIT BOLT HOLES IN

BEARING STIFFENERS AT OUTSIDE FACE OF EXTERIOR BEAM.

OMIT BOLT HOLES IN BEARING STIFFENERS AT ABUTMENT

DIAPHRAGMS OF INTEGRAL BRIDGES

② MILL TO BEAR AT BOTTOM FLANGE

27'-10"

A1 #5 x 29'-0"

INTERMEDIATE DIAPHRAGM STIFFENER DETAILS

DETAIL SHOWN AT INTERIOR BEAM, OMI

INTERMEDIATE DIAPHRAGM STIFFENERS

AT OUTSIDE FACE OF EXTERIOR BEAM.

7'-3"

180° HOOK TYP.

AC #5 x 7'-10"

180° HOOK TYP.

O° SKEW" ARE FOR USE IN CONSTRUCTION OF SINGLE SPAN BRIDGES WITH EITHER CONCRETE INTEGRAL ABUTMENTS OR STEEL CONVENTIONAL ABUTMENTS UTILIZING THE OLD 1-40 CROSSTOWN SALVAGED BEAMS SIZES W33X130, W33X141, W36X135 OR W36X150. 1. SINGLE SPAN INTEGRAL CONCRETE ABUTMENT BRIDGES: THE FOLLOWING 2009 LRFD COUNTY BRIDGE STANDARDS, OR PARTS OF THEM, ARE REQUIRED IN ADDITION TO THE DESIGN SHEETS MENTIONED ABOVE:

THE DESIGN SHEETS "TYPICAL CROSS SECTION, ROLLED BEAMS, 26" CLEAR

ROADWAY, O' SKEW" AND "ROLLED BEAM DETAILS, 26' CLEAR ROADWAY,

CB26-I-SKO-LSECT-RB - LONGITUDINAL SECTION ROLLED BEAMS CB26-I-SKO-DKSLB-BLIST-RB - DECK SLAB BAR LIST ROLLED BEAMS CB26-I-SKO-ABUT-RB-55100 - ABUTMENT DETAILS 55' THRU 100' ROLLED BEAMS

CB26-I-SKO-DIA-ABUT-RB-55100 - ABUTMENT DIAPHRAGM DETAILS 55' THRU 100'

CB26-I-SKO-BRG-RB - BEARING DETAILS ROLLED BEAMS

CB26-I-SKO-AS - APPROACH SLAB DETAILS

ROLLED BEAMS

NOTES

fc' = 4 ksi

fy = 60 ksi

fy = 36 ksi

10 lo

%" BOLTS

BEARING

STIFFENER

END OF

<u>C</u> ½" CONTINUOUS

DRIP BEAD

DETAIL "A"

fy = 36 ksi MIN.

CB26..32-I-SKO-WING-RB-55100 - WING DETAILS 55' THRU 100' ROLLED BEAMS CB26..32-I-SKO-ABUT-MISC - SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS

CB26..32-C..I-SKO..30-RB-BRACING - ROLLED BEAM BRACING DETAILS FOR PLACEMENT OF DECK SLAB CONCRETE

CB26..32-C..I-SKO..30-GRAU-BC - GUARDRAIL ANCHOR UNIT - BRIDGE CONNECTION (THESE STANDARDS ARE BASED ON A 3-BEAM SYSTEM. SOME OF THEM WILL, THEREFORE, NEED TO BE MODIFIED FOR USE ON A 4-BEAM SYSTEM.)

2. SINGLE SPAN CONVENTIONAL STEEL ABUTMENT BRIDGES:

OBSOLETE COUNTY BRIDGE STANDARD IBN-1 AND IBNA-1, OR PARTS OF THEM, ARE REQUIRED IN ADDITION TO THE DESIGN SHEETS "TYPICAL CROSS SECTION, ROLLED BEAMS, 26' CLEAR ROADWAY, O' SKEW" AND "ROLLED BEAM DETAILS, 26' CLEAR ROADWAY, O° SKEW".

STANDARD IBNA-1 WILL NEED TO BE MODIFIED AS FOLLOWS: SUBSTITUTE AN HP 12x53 PILE OF GRADE 50 IN PLACE OF THE HP 10x42 PILE SHOWN FOR THE BENT CAP. VERTICAL HP 10x42 PILES SHALL BE GRADE 50. WELD BEARING PLATES TO THE BENT CAP AT BEAM LOCATIONS AS NEEDED TO ADJUST FOR CROSS-SLOPE. PLATE DIMENSIONS SHALL BE 8" x (FLANGE WIDTH + 2") imes (THICKNESS REQUIRED). BEARING PLATE WELDS SHALL BE 5_{16} " FILLET WELD, ALL SIDES, WITH 38" TERMINATIONS.

THE 2009 LRFD COUNTY BRIDGE STANDARDS CB26..32-C...I-SKO...30-RB-BRACING -ROLLED BEAM BRACING DETAILS FOR PLACEMENT OF DECK SLAB CONCRETE, AND CB26..32-C..I-SKO..30-GRAU-BC - GUARD RAIL ANCHOR UNIT - BRIDGE CONNECTION, WILL ALSO BE REQUIRED.

GENERAL NOTES

PLATE TYP.

MC 18x42.7

2" GUSSET

PI ATF

€ BEARING

END DIAPHRAGM SECTION

(SEE BEAM DETAILS FOR

DIMENSION "C")

3<u>" TYP</u>

- STAY-IN-PLACE STEEL DECK FORMS MAY BE USED IF THE MINIMUM DECK SLAB THICKNESS OF 8" IS OBTAINED BY MEASURING FROM THE TOP OF THE DECK SLAB TO THE TOP PORTION OF THE STEEL CORRUGATION. NO ADDITIONAL CONCRETE WEIGHT OF THE DECK SLAB IS PERMITTED. ADDITIONAL STEEL WEIGHT OF THE DECK FORMS SHALL NOT EXCEED 5 PSF. STAY-IN-PLACE PRESTRESSED CONCRETE DECK FORMS MAY BE USED IF THE FOLLOWING CONDITIONS ARE MET:
- 1) SHOP DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE FORMS ARE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
- 2) A NEW STRUCTURAL DESIGN, STRUCTURAL CALCULATIONS, AND A NEW REINFORCING SCHEDULE FOR THE DECK SLAB ARE SUBMITTED TO THE BRIDGE ENGINEER FOR
- 3) SHOP DRAWINGS, NEW DECK SLAB REINFORCING SCHEDULE AND STRUCTURAL DESIGNS AND CALCULATIONS SHALL BE PREPARED BY AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA.

ALL COSTS ASSOCIATED WITH THE USE OF STAY-IN-PLACE FORMS, INCLUDING ALL PROFESSIONAL SERVICES, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS, SHALL BE AT THE CONTRACTOR'S EXPENSE. FOR ADDITIONAL INFORMATION CONCERNING THE USE OF STAY-IN-PLACE FORMS, SEE SECTION 502 OF THE STANDARD SPECIFICATIONS.

- DO NOT SAW-CUT GROOVE OR TINE THE DECK SLAB WITHIN 6" OF ANY CONSTRUCTION JOINT.



ROLLED BEAMS

26' CLEAR ROADWAY, O° SKEW

2009 SPECIFICATIONS CB26-XTBM-SKO-XSECT