LFD OPERATING RATING
- 2.0% SLOPE
- 0% SLOPE

DATE
4-27-2012

"FILLET WELD, 16"

TYPICAL CROSS SECTION

DRIP BEAD

COUNTY BRIDGE STANDARDS (ENGLISH)
OKLAHOMA DEPARTMENT OF TRANSPORTATION

ROLLED BEAMS 32' CLEAR ROADWAY

2009 SPECIFICATIONS

APPROVED BY BRIDGE ENGINEER

GENERAL NOTES

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

NOTES

END DIAPHRAGM DETAILS FOR W36 BEAMS SHALL BE USED FOR BOTH W33 AND W36 BEAMS. STRUCTURAL STEEL FOR CHANNEL DIAPHRAGMS AND GUSSET PLATES BE ADJUSTED AS NECESSARY TO ACCOMMODATE BEAMS SHOWN IN TYPICAL SECTION.

THE DESIGN SHEETS "TYPICAL CROSS SECTION, ROLLED BEAMS, 32' CLEAR ROADWAY, 30^ SKEW" AND "ROLLED BEAM DETAILS, 32' CLEAR ROADWAY, 30^ SKEW" ARE FOR USE IN CONSTRUCTION OF SINGLE SPAN BRIDGES (WITH 32' CLEAR ROADWAY, SKEWED 30^) AND HAVING CONVENTIONAL STEEL ABUTMENTS, UTILIZING THE OLD I-40 CROSSTOWN SALVAGED BEAMS SIZES W33X130, W33X141, W36X135 OR W36X150.

USE OBSOLETE COUNTY BRIDGE STANDARD IBNA-2 FOR STEEL ABUTMENTS, MAKING THE FOLLOWING MODIFICATIONS:

ALSO REFER TO OBSOLETE COUNTY BRIDGE STANDARD IBN-1 FOR LONGITUDINAL SECTION AND STEEL CHANNEL HEADER DETAILS.

USE 2009 LRFD COUNTY BRIDGE STANDARDS CB-26..32-C..I-SK0..30-RB-BRACING AND RESPECTIVELY. THE FOLLOWING MODIFICATION WILL BE NECESSARY FOR THE END DIAPHRAGM BRACING:

ALSO REFER TO STANDARD CB-26..32-C..I-SK0..30-GRAU-BC FOR GUARD RAIL CONNECTION.

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 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) A NEW STRUCTURAL DESIGN, STRUCTURAL CALCULATIONS, AND A NEW REINFORCING SCHEDULE FOR THE DECK SLAB 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 APPROVAL.

3) SHOP DRAWINGS, NEW DECK SLAB REINFORCING SCHEDULE AND STRUCTURAL DESIGNS AND CALCULATIONS SHALL BE REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA.

ALL COSTS ASSOCIATED WITH THE USE OF STAY-IN-PLACE FORMS, INCLUDING ALL THE CONTRACTOR'S EXPENSE. FOR ADDITIONAL INFORMATION CONCERNING THE USE OF SUBSTITUTE AN HP 12x63 PILE OF GRADE 50 IN PLACE OF THE HP 10x42 PILE SHOWN FOR THE BENT CAP. VERTICAL HP 10x42 PILES SHALL BE GRADE 50.

ADJUST FOR CROSS-SLOPE. PLATE DIMENSIONS SHALL VARY 2'-11" TO 32'-11" THICKNESS REQUIRED).

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EXCEPT AS MODIFIED BY CURRENT ODOT BRIDGE DIVISION DESIGN POLICIES.

DECK SLAB HAUNCH HEIGHT SHOWN IS AT CENTERLINE BEARING ONLY, MEASURED FROM BOTTOM OF DECK SLAB TO TOP OF BEAM, AND VARIES ACROSS THE SPAN. HAUNCH HEIGHT TO BE DETERMINED AFTER ERECTION OF BEAMS TO PROVIDE FOR DEAD LOAD DEFLECTION AND GRADE ADJUSTMENT.

DESIGN DATA

CLASS AA CONCRETE
REINFORCING STEEL, AASHTO M 31 (GRADE 60)
EXISTING STRUCTURAL STEEL, GRADE 36
LOADING - HL-93
20 PSF FUTURE WEARING SURFACE

REFERENCE BEAM DETAIL SHEETS
AC #5 x 10'-1"
A1 #5 x 17'-11" AVG.

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