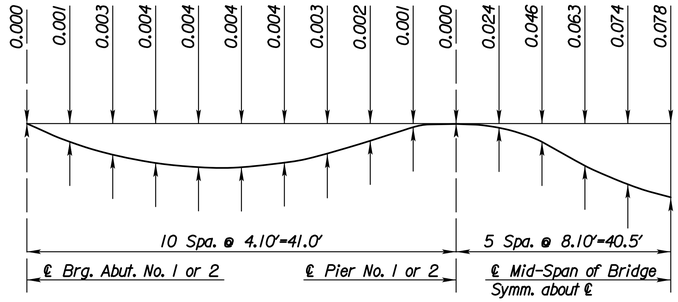
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85066	2014	119	388



DEAD LOAD DEFLECTION DIAGRAM

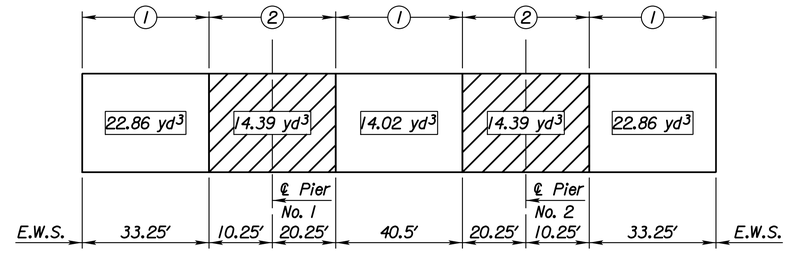
Ordinates are in feet
Beam Concrete: $E = 4.074 \times 10^6$ psi
$E_f = 4.463 \times 10^6$ psi

DEFLECTIONS: Concrete Dead Load Deflections are due to the 7½" Concrete Slab, 1½" Silica Fume Overlay and F4 Barrier Curb.

CAMBER: Construct the finished deck to plan grade by varying the depth of the fillet over the beam to provide for prestress camber, concrete dead load deflection and, if necessary, vertical curvature. After the prestressed beams are erected measure the camber in the field by taking a profile of each beam. Correct any variation between the actual camber and concrete dead load deflection shown in the plans by varying the depth of the concrete fillets over the beam so that the finished floor is constructed to the theoretical grade. The minimum depth of the slab over the beam shall be 9 inches. Prior to shipping, the camber shall be no greater than the design camber + ½". The design camber is equal to the 50 day camber shown in the plans.

The theoretical amount of concrete required for fillets is 3.5 C.Y. This amount of concrete is included in the Summary of Quantities. Any additional concrete required to construct the fillets will be subsidiary.

Note:
Beam Camber @ release:
span #1 & #3 0.013'
span #2 0.112'
Beam Camber @ 50 days:
span #1 & #3 0.022'
span #2 0.192'



CONCRETE PLACING SEQUENCE

CONCRETE PLACING SEQUENCE: The sequence of placing concrete in the slab shall be as shown, or the Contractor shall submit an alternate placing sequence for review. Submit the alternate placing sequence to the Engineer at the Preconstruction Conference. Include the proposed rate of concrete placement in C.Y./hr., the plant capacity, equipment used in placing the concrete, proposed admixtures, and the quantity of concrete in each placing segment. Any additional cost for the Contractor's alternate plan of placing concrete, including admixtures, shall be at Contractor's expense and shall be considered to be subsidiary to the bid item "Concrete (Grade 4.0) (AE)(SA)". Approval of the Contractor's alternate sequence is required prior to placement of concrete in the deck.

CONCRETE PLACING: Place and hand vibrate all concrete for the pier diaphragms and the abutments above the construction joint to the bottom of the deck just prior to th enormal paving train opperations. Do this work in a manner to avoid a cold joint in either the abutments or in the diaphragms.

No.	Revisions	By	Date
1			

BR. NO. 96-87-32.78 (412) E.B. STA. 463+49.36
BR. NO. 96-87-32.79 (411) W.B. STA. 463+48.72

SUPERSTRUCTURE DETAILS

K-96 OVER GREENWICH ROAD

PROJECT NO. 472-85066 SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	C.W.P.J.	Checked by	M.S.N.	
Drawn by	C.W.P.J.	Date	Jan. 2014	Job No. 09521