



NOTES:

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq in. Lifting loops shall be 3/4" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-1/2" - 270 ksi strands. After beams have been erected, holes for the dowel anchors shall be drilled into the substructure (1 1/4") and the anchor dowels shall be grouted in place & cured 24 hrs (min) prior to grouting keyways. Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams". The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Lifting Loops shall be burned off after deck beams have been erected. Keyway surfaces shall be cleaned to remove oil or other bond breaking material prior to shipment of beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. An equal substitution of low-relaxation strands for the stress-relieved strands will be permitted.

FOR INFORMATION ONLY: ONE BEAM

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d	110	#3	2'-8"	U
o1	64	#4	6'-1"	U
D	4	#5	35'-6"	U
D1	8	#5	13'-10"	U
D2	4	#4	35'-6"	U
C	8	#5	3'-0"	U
C1(E)	69	#5	2'-11"	U
C2(E)	69	#5	2'-11"	U
e	3	#5	3'-3"	U
e1	3	#4	2'-6"	U
u	56	#3	7'-3"	L
u1	7	#4	7'-3"	L
u2	4	#4	5'-11"	L
CLASS X CONCRETE CU YD 11.2				
REINFORCEMENT BARS POUND 950				
REINFORCEMENT BARS (E) POUND 420				
WEIGHT OF BEAM POUND 45,478				

NOTES:

* BARS C1(E) & C2(E) REQUIRED FOR INTERIOR SIDEWALK UNITS.
 BARS DESIGNATED (E) ARE TO BE EPOXY COATED. SEE SPECIAL PROVISIONS.
 † BARS C, e, B & U2 REQUIRED FOR EXPANSION END OF BEAM ONLY.
 ** BAR C1(E) REQUIRED FOR EXTERIOR SIDEWALK UNITS.

SPAN 1 & 3
DETAILS PRECAST PRESTRESSED CONCRETE DECK BEAMS
 F.A. RTE. 18 OVER APPLE RIVER
 SECTION 103-D-BR
 JO DAVIESS COUNTY
 STATION 259 + 08.20



DESIGNED: V.S.N.	USER NAME = dheberling	DESIGNED -	REVISED -
CHECKED: D.H.C.	FILE NAME = 0430028-64E08.dgn	CHECKED -	REVISED -
DRAWN: R.A.W.	PLOT SCALE = 0:2.00000 '1' / in.	DRAWN -	REVISED -
CHECKED: K.L.F.	PLOT DATE = 8/5/2013	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 STRUCTURE NO. 043-0080
 SHEET NO. 52 OF 60 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	103BR-4	JO DAVIESS	159	102

CONTRACT NO. 64E08

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY