

Std. Base File:

Plotted By: mlaroche

File: br200.dgn

Plot Location: Bridge

Plot Date: 09-AUG-2019 13:26

SUMMARY OF QUANTITIES										
Item Location	Excavation		Concrete		Reinforcing Steel		* Piles	Bridge	Abutment	Slope
	Class I	Class II	(Grade 4.0) (AE) ()	(Grade 4.0) (AE)	(Grade 60) (Epoxy Coated)	(Grade 60)	Lin. Ft.	Backwall Prot. System	Aggregate Drain	Protection (Shot Rock)
	Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs.	Lbs.		Sq. Yds.	Sq. Yds.	Cu. Yds.
Abutment No. 1			**		**					
Pier No. 1										
Pier No. 2										
Abutment No. 2			**		**					
Substr. Total										
Superstr. Total										
Total							†			

**Quantities are included in the Superstr. Total Quantity.

† Summary of Piling
Abutment No. 1
Pier No. 1
Pier No. 2
Abutment No. 2

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@ /
@ /
@ /

Example Format(s)

* NOTE: Only steel pile HPIOX42 shall be used on this project.

*Note: Steel Shell 12¾" ø ½" Wall Thickness

TRAFFIC DATA - (XXX)	
AADT (YYYY)	xx,xxx
AADT (YYYY)	xx,xxx
DHV	xx%
D	xx/xx
T	xx%

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0		

INDEX TO BRIDGE DRAWINGS	
Sheet No.	Drawing
	General Notes and Quantities
	Contour Map
	Construction Layout
	Engineering Geology
	Abutment Details
	Abutment Aggregate Drain
	Pier Details
	Superstructure Details
	Auxiliary Details
	Bill of Reinforcing Steel and Bending Diagrams
Standards	
	Bridge Excavation
	Standard Pile Details
	Supports and Spacers for Reinforcing Steel

GENERAL NOTES

EXISTING STRUCTURE: Plans of the existing structure are on file and available for inspection by qualified bidders at the: State Bridge Office, KDOT, Eisenhower State Office Building, 700 SW Harrison St., Topeka, KS. 66603-3929.

NOT8000

CONCRETE: Superstructure concrete is bid as Concrete (Grade 4.0)(AE)(). Substructure concrete is bid as Concrete (Grade 4.0)(AE). The Contractor may use Concrete (Grade 4.0) in the footings. Bevel all exposed edges of all concrete with a ¾" triangular molding, except as otherwise noted on the plans. Construction joints are optional with the Contractor, but if used, place only at locations shown, or at locations approved by the Engineer.

NOT4000

EMBANKMENT: Complete the embankment at the abutments as shown on the Bridge Excavation sheet prior to driving the abutment piling or commencing with the abutment footing excavation.

NOT3500

BRIDGE EXCAVATION: Elevation shall designate the Excavation Boundary Plane of Class I and Class II Excavation; Class I above the plane, Class II below the plane. See the Bridge Excavation sheet for the limits of pay excavation.

NOT0010;
NOT0000 may apply

BACKFILL COMPACTION: Compact backfill at the abutments.

NOT3300;
NOT3310 may apply

REINFORCING STEEL: All reinforcing steel dimensions are to the centerline of bars unless otherwise noted. All reinforcing steel, except the spiral bars, shall conform to the requirements of ASTM A615, Grade 60. Spiral bars may meet the requirements of either ASTM A615 (Gr. 40 or 60) or AASHTO M32, and are included in the bid item "Reinforcing Steel (Gr. 60)".

NOT7010; NOT7020
may apply

CAMBER: Provide camber as shown on the Camber Diagram unless the Contractor uses either long span steel beam falsework (concrete dead load deflection greater than ¼") or timber falsework with greater than 12'-0" clear span. If either case exists, submit falsework plans that show the additional required camber.

NOT4140

PILING: Drive all piling to [penetrate or bear upon the _____ formation](or)[a minimum elevation of _____]. Driving shall stop when in the opinion of the Engineer additional driving may damage the piling. Drive all piling to the Pile Driving Formula Load of:

NOT1005; NOT1000, NOT1020,
NOT1010 & NOT1021
may apply

Abutment No. 1	Tons
Pier No. 1	Tons
Pier No. 2	Tons
Abutment No. 2	Tons

NOT4100; NOT4110
may apply

FALSEWORK PLANS: A licensed Professional Engineer shall design the falsework details. Details shall bear the seal of a licensed Professional Engineer. See the Bridge Design Manual, Section 16.1 "Review and Approval of Falsework Plans", for a listing of items to be included on the falsework plan. Submit electronic plans conforming to Section 105 of the Standard Specification with details in compliance with KDOT Specifications to the Field Engineer for review.

NOT4106;
NOT4105
May Apply

FALSEWORK INSPECTION: This project has falsework plan requirements which are considered "Category 2" by KDOT specifications. If falsework deficiencies or variations from the approved and sealed plans are found, the falsework design Engineer of Record will provide written approval of the changes. If for the convenience of the Contractor the falsework becomes "Category 1" by the use of non-typical supports; then the inspection and review requirement of "Category 1" will be fully enforced, but at no cost to the State. "Category 2" falsework inspection is not paid for directly, but is subsidiary to other bid items.

NOT9001;
NOT9002;
NOT9003;
May Apply
Use with NOT8210

DEMOLITION PLANS Note:
Category A, Category B or Category C

NOT4120; NOT4130
may apply

FALSEWORK: Leave the falsework in place for the entire unit until 15 days after the last concrete pour for the unit or longer as directed by the Engineer.

NOT9040

CONCRETE PLACING SEQUENCE: The sequence of placing concrete in the slab and curbs shall be as shown, or the Contractor may 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./h, the plant capacity, placement direction, construction joint location, a description of the 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 the Contractor's expense and shall be considered subsidiary to the bid item, "Concrete (Grade 4.0)(AE)()". Approval of the Contractor's alternate sequence is required prior to placement of concrete in the deck.

NOT7300;
NOT7312
May Apply

CONSTRUCTION LOADS: Only foot traffic is permitted on the new sub-deck, one-course deck or any concrete overlay during the seven day curing period, keep any exposed deck wet during the 7-day curing period. See KDOT Specifications Section 710 Table 710-2.

NOT9100

SLAB ELEVATIONS: The Contractor shall record elevation readings on the "Slab Elevations" sheet in the table at locations designated by a "I2)".

NOT4300

The Engineer shall submit the table on a half-sized sheet to the: State Bridge Office, KDOT, Eisenhower State Office Building, 700 SW Harrison St., Topeka, KS. 66603-3929.

TEMPERATURE: The design temperature for all dimensions is 60° F.

QUANTITIES: Items not listed separately in the Summary of Quantities are subsidiary to other items in the proposal.

DIMENSIONS: All dimensions shown on the design plans are horizontal dimensions unless otherwise noted. Make necessary allowances for roadway grade and cross slope.

CONSTRUCTION JOINTS: The construction joints shown are optional with the Contractor. If used, place the construction joints only at locations shown or at locations approved by the Engineer.

BRIDGE DECK GROOVING: After the bridge deck has cured, transversely groove the deck in accordance with KDOT Specifications. For phased construction groove each completed phase before opening to traffic. Align the grooves from each adjacent phase across the bridge deck without jogs or discontinuities. For skewed bridges all grooving will be perpendicular to the centerline of the bridge.

NOT7220

DESIGN DATA

NOT9200

DESIGN SPECIFICATIONS:
AASHTO Specifications, 2007 Edition and latest Interim Specifications. Load and Resistance Factor Design.

NOT9250; NOT9210
May Apply

DESIGN LOADING:
HL-93

NOT9255; NOT9220, NOT9230
& NOT9240
may apply

Design Dead Load includes an allowance of _____ psf for a future wearing surface.

UNIT STRESSES:

Concrete (Grade 4.0)	f'c = 4 ksi
Concrete (Grade 4.0)(AE)	f'c = 4 ksi
Concrete (Grade 4.0)(AE)()	f'c = 4 ksi
Reinforcing Steel (Grade 60)	fy = 60 ksi
Steel Piles	fy = 50 ksi

NOT9410

LRFD DESIGN PILE LOAD:

Design Loading (Tons/Pile)	Strength	Service	Phi
Abutment	---	-----	-----
Piers	---	-----	-----

NOT9301; NOT9300, NOT9310
NOT9311, NOT9301, NOT9302,
NOT9320 & NOT9321
May Apply

LFD & LRFR RATING FACTORS		
Rating Level	Inventory	Operating
Truck		
HS-20 (36T)	X.XX	X.XX
Type HET (110T)		X.XX
2002 LFD Rating. 17th Edition AASHTO		
HL-93 Loading	X.XX	X.XX
20xx Manual for Bridge Evaluation		

6	10/19/15	Added Asbestos	NOT8221 Option	JPJ	CER
5	2/4/15	Modified Per	2015 Specification	JPJ	CER
4	4/7/14	Current Release		JPJ	CER
3	2/12/14	Added Benchmark		JPJ	CER
2	08/2/12	ADDED NOT3135 & NOT3145		JPJ	TLF
1	04/29/10	ADDED RATING TABLES		JPJ	KFH
NO.	DATE	REVISIONS		BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION					
Br. No.			Sta.		
GENERAL NOTES AND QUANTITIES					
Proj. No.			Co.		
SHEET NO.	OF	SCALE	APP'D		
DESIGNED		DETAILED	QUANTITIES	CADD	
DESIGN CK.		DETAIL CK.	QUAN. CK.	CADD CK.	