

FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	472-85210	2015	3	28

SUMMARY OF QUANTITIES														
Item Location	Concrete (4.0)(AE)	Area Prepared for Patching	Concrete Repair	Machine Preparation 1 3/4"	Mobilization	Silica Fume Overlay (1 3/4")	Bearing Rehabilitation	Epoxy Resin Crack Repair	Expansion Device	Bridge Jacking	Traffic Control	Pavement Markings	Site Clearing and Restoration	Sign, Electric Portable Message
	Cu. Yds.	Sq. Yds.	Sq. Ft.	Sq. Yds.	Lump Sum	Sq. Yds.	Lump Sum	Lin. Ft.	Lin. Ft.	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Each
Substr. Total	15.2	267.2	1603.2	2671.9	--	2671.9	--	3206.3	252.0	Lump Sum	--	--	--	--
Superstr. Total	--	--	832.0	--	--	--	Lump Sum	504.0	--	--	--	--	--	--
Total	15.2	267.2	2435.2	2671.9	Lump Sum	2671.9	Lump Sum	3710.3	252.0	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Each

**GENERAL NOTES**

- This design is for repairs to the existing concrete arch bridge located in Sedgwick County on Broadway over Arkansas River.
- Dimensions shown on these plans are based on design plans (dated 1929), Bridge repair plans (dated 1994).
- The utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Contractor of the construction starting date.
- The Contractor shall be responsible for accurately locating all utilities within the work area prior to commencing work. All existing utilities shall be protected by the Contractor throughout construction of the project. The Contractor shall be fully responsible for any and all damages which might occur by failing to exactly locate any and all utilities.
- All costs associated with the removal of the existing overlay shall be included in the bid item "Machine Preparation 1 3/4". Removal of existing overlay shall be computed in square yards from the measurement of areas removed. The Contractor will be paid the contract price per square yard for furnishing all equipment and labor necessary to remove the concrete to the classification line.
- Upon completion of the removal of the existing overlay and 1/4" of deck, the Engineer shall determine the areas of deck to be repaired as "Area Prepared for Patching". Actual hollow areas, as determined by the Engineer, shall be repaired.
- All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.
- Minimum clear distance from face of concrete to near reinforcing bar is to be 2" unless otherwise noted or shown.
- All new reinforcing steel required is to be grade 60 and epoxy coated.
- The top and interior faces of the concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P of the Standard Specifications. All costs associated with cleaning and sealing of the concrete barrier rails shall be included in the unit price bid item "Silica Fume Overlay (1 3/4)".
- No preliminary deck survey is shown. The plan quantity for "Area Prepared for Patching" is estimated as 10% of the total deck area. The actual quantity is determined by the Engineer after the existing concrete overlay has been removed. Actual spalled and hollow areas as determined by the Engineer shall be repaired.
- Present deck thickness is about 9 1/2 inches including existing overlay. The Contractor shall exercise care in removing concrete in order to prevent unnecessary removal of concrete below the top of the top reinforcing. The energy of hand tools shall be restricted near the bottom of the designated Class A Repair areas in order to prevent unbonding of reinforcing. No concrete shall be removed below the top of the top longitudinal reinforcing without prior permission from the Bridge Engineer.

- The Contractor shall execute the work in such a manner and take precautions necessary to prevent construction debris from falling into the Arkansas River.
- The bridge superstructure shall be jacked at each pier to repair the end floor beams. Suggested jacking scheme is shown on Sheet 6. Actual jacking details are the responsibility of the Contractor.
- Concrete repair areas shown on Sheets 9 through 12 are based on a visual inspection of the structure. Actual repair areas will be determined by the Engineer in the field. Repair of deteriorated sidewalk overhang brackets is also included in the quantity for concrete repair. Locations of the repairs are shown on Sheet 4.
- Existing trails under each end of the bridge shall remain open during construction unless approved by the Engineer. The trails shall be protected from any falling construction debris and signs shall be placed on the trails to warn users of construction activity.
- Reset of bearing at Pier 5 shall be subsidiary to other items for which payment is made.
- Bridge shall be closed to traffic during construction. See Traffic Control Plan.
- Cost for removal and disposal of existing concrete, cleaning reinforcing and structural steel members and forming as well as form supports for floor beam repair shall be included in the cost of structural concrete.
- Rehabilitation of south bearing at Pier 3 shall consist of removal of steel bearing, sandblasting to remove rust and galvanizing. Cleaned and galvanized bearing shall be replaced under floorbeam after floorbeam has been repaired.

**DESIGN STRESSES:**

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.  
Reinforcing steel in accordance with Section 8, Grade 60.  
Concrete in accordance with Section 8, f'c=4,000 psi. (Grade 4.0)(AE)

**SPECIFICATIONS:**

Design: AASHTO Series 2002.

Construction: the Kansas Department of Transportation Standard Specifications for State Road and Bridge Construction - 2015.

Plotted By: AJD/INKEL | Plot Location: Quantities.dgn  
 File: c:\trans\systems\lw\local\trans\scarp\pw\ajd\inkel\020779\General Notes and  
 Plot Date: 10/5/2015

3				
2				
1				
NO.	DATE	REVISIONS	BY	APP'D
<b>CITY OF WICHITA</b> BR. NO. 53040087000AR30 STA. 236+89.80 <b>GENERAL NOTES AND QUANTITIES</b> REHABILITATION OF THE JOHN MACK BRIDGE OVER THE KANSAS RIVER				
SHEET NO.	OF	SCALE	APP'D	
DESIGNED		DETAILED	AJD	QUANTITIES
DESIGN CK.		DETAIL CK.	MJJ	QUAN. CK.
				CADD
				CADD CK.