



*** BILL OF MATERIALS - CONCRETE**

Item	Quantity	Unit
Northwest Retaining Wall	30.6	C.Y.
Southwest Retaining Wall	30.6	C.Y.
Northwest River Level Walk Retaining Wall	7.9	C.Y.
Southwest River Level Walk Retaining Wall	7.9	C.Y.

* For Information Only

NOTE: Reinforcing for Northwest and Southwest walls is not itemized in a bill of materials. See Sheet No. C27 for "General Notes". See Sheet No. C36 for associated circular wall details at Abutment No. 1 only.

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

See Arch. Sheet A16 Detail 4 for Concrete Reveal.

- The Design Capacity of each 14" Dia. Auger Cast Pile is 15 ton. Length of piles shown is based on side friction in accordance with the subsurface investigation. Installation of piles shall be verified by a licensed soils engineer.
- The bottom elevation of auger cast piles shall be 1268.00.
- It is anticipated that borings will encounter groundwater. Maintain 2'-0" of grout above the bottom of the auger at all times during casting.
- Immediately upon auger removal and while grout is still plastic, lower reinforcing into the pile. Do not push or force reinforcing into piles. Support reinforcing from above. Vibrate the upper 10' of the grout.

No.	Revisions	By	Date
CITY OF WICHITA, KANSAS MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER DOUGLAS AVENUE BRIDGE OVER ARKANSAS RIVER NORTHWEST & SOUTHWEST RETAINING WALL AT ABUTMENT #1 CITY OF WICHITA PROJECT NO. 472-82721 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	RWA	Checked by	RAS
Drawn by	WLL	Date	Sept., 1997 Job No. 95088-4

i:/1995/95088/douglas/retwall.dgn
 Drawn by: ras/wll
 Plotted by: wll 11-3-97