

J:\PROJECTS\2023\20230810\0431\_COW\_WDC\_BRIDGE REPLACEMENT AT 15TH STREET\100\_230431\_CADD\SHOTS\06\_CIVIL\PAV\230431\_SUMMARY OF QUANTITIES.DWG  
 PLOTTED: Friday, August 01, 2025 @ 02:15PM  
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EARTHWORK									
Location	EXCAVATION ITEMS					VMF	Fill, Compacted (90% Density) (cy)	Fill, Compacted (95% Density) (cy)	Excavation to be Wasted# (cy)
	Pavement &/or Curb Removed <sup>Δ</sup> (sy)	Sidewalk, Drive, &/or Pkg Lot Removed* (sy)	Concrete Channel Lining Removed (sy)	Excavation, Common (cy)	Excavation, Rock (cy)				
Asphalt Pavement (Including Curb)	1622.45								
Concrete Pavement (Including Curb)	674.34								
Sidewalk, Path and Drives		272.78							
Shared Use Path and Sidewalks				73.2		0.80	970.90	292.5	
Cul-de-sac and Parking Area				138.2		0.80		22.3	
Drainage Channel			709.0	2,531.5	196.7	0.80	304.40		755.3
<b>Totals</b>	<b>2,296.8</b>	<b>272.8</b>	<b>709.0</b>	<b>2,742.9</b>	<b>196.7</b>		<b>1,275.3</b>	<b>314.8</b>	<b>755.3</b>

\* Includes all sidewalk, ramps and driveways  
 Δ See General note concerning existing pavement thicknesses.  
 # See General notes concerning existing soil storage and re-use as project fills.

REMOVAL OF EXISTING STRUCTURES *					
Location	Offset	Item	Pipe Removed (lf)	MH Removed (ea)	Remarks
49+23.87 to 50+76.13	CL	15th Street bridge			
50+50.71 to 50+62.63	Rt.	Storm sewer outfall structure			East bank of drainage channel
49+14.20	Lt.	Bollards			3 each
49+21.94	Rt.	Bollards			3 each
47+96.10 to 48+20.44	Lt.	Wire gate and concrete barriers			See general note on sheet 2
48+08.44 to 49+26.75	Lt.	30" brick arch storm sewer	139		
49+26.75 to 49+58.73	Rt.	3' x 3' RCB	37		
49+58.73 to 49+96.46	Rt.	42" RCP	43		Includes end section
49+02.45	Rt.	SWS manhole		1	Approximately 7' deep
49+26.75	Rt.	SWS manhole		1	Approximately 11' deep
49+58.74	Rt.	SWS manhole		1	Approximately 7' deep
<b>Totals</b>			<b>219</b>	<b>3</b>	

\* This list does not necessarily constitute a complete list of all items to be removed during construction. This list is provided for information only. Pavement removal and tree removal are paid for separately. Pipe removal and inlet/manhole removal will also be paid for separately but are noted in this table. Sign removals are shown on the signing plans.

TREE REMOVAL				
Location	Side	Offset	Large	Small
53+00.95	Rt.	36.37	1	
<b>Totals</b>			<b>1</b>	<b>0</b>

RECAPITULATION OF QUANTITIES		
BID ITEM DESCRIPTION	QUANTITY	UNIT
<b>Lump Sum Bid Items - Paving and Grading</b>		
Mobilization	1	LS
Construction Staking	1	LS
Removal of Existing Structures	1	LS
Transportation of Salvaged Material	1	LS
Site Clearing	1	LS
Site Restoration	1	LS
Pavement &/or Curb Removed	2,297	SY
Sidewalk, Drive &/or Parking Lot Removed	273	SY
Concrete Channel Lining Removed	709	SY
Excavation, Common	2,743	CY
Excavation, Rock	197	CY
Fill, Compacted (90% Density)	1,276	CY
Fill, Compacted (95% Density)	315	CY
Crushed Rock Base 5", Reinforced	496	SY
Dewatering	1	LS
<b>Lump Sum Bid Items - Roadside Improvement</b>		
Seeding	1	LS
Sodding, Buffalo	1	LS
Artist Coordination	1	LS
<b>Lump Sum Bid Items - Traffic</b>		
Pavement Marking	1	LS
Signing	1	LS
Traffic Control	1	LS
<b>Measured Quantity Bid Items - Paving and Grading</b>		
Field Office	1	EA
Concrete Pavement 6"	628	SY
Concrete Driveway 8" (Reinf.)	265	SF
Concrete Sidewalk 4"	4,503	SF
Concrete Sidewalk 5" (Reinf.)	5,826	SF
Concrete Approach 8"	535	SF
Concrete Sidewalk 8" (Reinf.) (Colored)	440	SF
Sidewalk Thickening	371	LF
Wheelchair Ramp w/ Detectable Warnings	3	EA
Crushed Rock Surface (Special)	71	SY
Concrete Protection Curb	50	LF
Concrete C & G, Type 1 (6" & 1-1/2")	375	LF
Concrete C & G, Type 1 (6"), Special	154	LF
A.C. Pavement Removed & Replaced	13	SY
Concrete Pad Removed & Replaced	4	SF
Concrete (Grade 4.0)	11	CY
Reinforcing Steel (Grade 60)	1,360	LBS
Riprap, Concrete 6" (Reinf.)	62	SY
Riprap, Light Stone	119	SY
Gabion Basket	88	CY
Gabion Blanket	265	SY
Gate, Wire Rope	2	EA
Fence, Temporary Construction	800	LF
Bollard	2	EA
Pipe Removed	219	LF
MH Removed	3	EA
MH Frame & Cover, Replaced	1	EA
Valve Adjusted	1	EA
<b>Measured Quantity Bid Items - Drainage</b>		
Pipe, SWS, RCP 18"	100	LF
Pipe, SWS, RCP 42"	186	LF
Pipe, End Section 18"	2	EA
Fill, Sand (Flushed & Vibrated)	98	LF
MH, Standard SWS (6')	2	EA
MH, Standard SWS (6')(Doghouse)	1	EA
Connect to Existing Structure	1	EA
Concrete Collar	1	EA
Concrete (Grade 4.0)	30	CY
Reinforcing Steel (Grade 60)	3,020	LBS
Flap Gate, 42"	1	EA
Flap Gate, 48"	1	EA

RECAPITULATION OF QUANTITIES		
<b>Measured Quantity Bid Items - Bridge</b>		
Class I Excavation	144	CY
Class II Excavation	2	CY
Concrete (Grade 4.0)(AE)(SA)(MPC)	56	CY
Concrete (Grade 4.0)(AE)	81	CY
Reinforcing Steel (Gr. 60)	9,516	LBS
Reinforcing Steel (Gr. 60)(Epoxy Coated)	13,588	LBS
Structural Steel (M270)(Gr. 50T2)	40,321	LBS
Structural Steel (A709)(Gr. 50)	2,336	LBS
Structural Steel (A709)(Gr. 36)	345	LBS
Drilled Shaft (42")(Cased)	70	LF
Welded Stud Shear Connectors	534	EA
Bridge Backwall Protection System	34	SY
Abutment Strip Drain	32	SY
Bearing (Steel Reinforced Elastomeric)	6	EA
Sonic Test (Drilled Shaft)	2	EA
Bridge Deck Grooving	184	SY
<b>Measured Quantity Bid Items - Erosion Control BMP</b>		
BMP, Back of Curb Protection	243	LF
BMP, Biodegradable Log	3,317	LF
BMP, Curb Inlet Protection	2	EA
BMP, Drop Inlet Protection	6	EA
BMP, Ditch Check, Rock	1	EA
BMP, Construction Entrance	4	EA
<b>Measured Quantity Bid Items - Roadside Improvement</b>		
Tree Removed, Large	1	EA
Turf Reinforcement Mat	2,679	SY
Combination Rail	360	LF
Light Tower	8	EA
Information Panel	2	EA
<b>Measured Quantity Bid Items - Electrical</b>		
Electrical Service	1	EA
Quazite Box	1	EA
Enclosure	1	EA
Fused Disconnect	1	EA
Non-Fused Disconnect	1	EA
Light Pole, Fixture and Footing	2	EA
Light Driver	8	EA
Tube Light	32	EA
Conduit, Fiberglass	300	LF
Conduit, PVC	1,050	LF
Conductors	1,350	LF

See paving plan sheets for utility adjustments  
 See sheet 25 for storm sewer outfall quantities  
 See sheet 30 for abutment wingwall quantities  
 See sheet 32 for bridge quantities  
 See sheet 77 for BMP and roadside improvement  
 See sheet 89 for pavement marking quantities  
 See sheet 91 for signing quantities



IMPROVEMENT PLANS FOR  
**15TH STREET BRIDGE OVER THE  
 WICHITA DRAINAGE CANAL**  
 WICHITA, KS

SUMMARY OF QUANTITIES		
PROJECT NO.	472-2023-085864	
SCALE	NO SCALE	
DRAWN	DESIGNED	CHECKED
LDG	JRA	JRA
ISSUED FOR CONSTRUCTION	NO.	DATE
0		8-1-2025
SHEET NO.		
75 OF 114		