ESTIMATED BRIDGE QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PROJECT TOTALS	BRIDGE 1 I-65 OVER CSXT RAILROAD BR. NO 19-I0065-20.10 BRIDGE QUANTITIES	SUPERSTRUCTURE	ABUT. NO. 1	ABUT. NO. 2	BRIDGE 2 I-65 OVER RIVERGATE PARKWAY BR. NO 19-I0065-20.26 BRIDGE QUANTITIES	SUPERSTRUCTURE	BENT NO. 1
(1)	202-04.01	REMOVAL OF STRUCTURES (PARTIAL, BR. NO. 19-I0065-20.10)	LS	1	1.0						
(2)	602-10.05	BRACING REPAIRS	LS	1	0.5				0.5		
(3)	603-02.01	REPAINTING EXISTING STEEL STRUCTURES (PARTIAL, 19I0065-20.10)	LS	1	1.0						
(4)	603-02.20	SPOT PAINTING EXISTING STEEL STRUCTURES	S.F.	150					150		
(3)	603-05.21	CONTAINMENT & DISPOSAL OF WASTE (BR. NOS. 19-I0065-20.10)	LS	1	1.0						
(5)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y.	201	201		93	108			
(6)	604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURES)	S.Y.	4751	3250				1501		
(7)	604-10.05	CONCRETE	S.F.	20	20		10	10			20
(8)	604-10.18	REINFORCING STEEL (REPAIRS)	LB.	16845	16845		7757	9088			
(9)	604-10.22	CONCRETE PARAPET REPAIR	L.F.	105	75	75			30	30	
(17) (7)	604-10.30	BRIDGE DECK REPAIRS (FULL DEPTH OF SLAB)	S.Y.	10	10	10					
(7)	604-10.34	CONCRETE OVERLAYED BRIDGE DECK REPAIR (FULL DEPTH)	S.Y.	190	165	165			25	25	
(10)	604-10.44	EXPANSION JOINT REPAIRS	L.F.	982	665	665			317	317	
(17) (7)	604-10.50	BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB)	S.Y.	20	20	20					
(7)	604-10.54	CONCRETE REPAIRS	S.F.	70	40		20	20	30		30
(7)	604-10.56	CONCRETE OVERLAYED BRIDGE DECK REPAIR (PARTIAL DEPTH)	S.Y.	80	70	70			10	10	
(7) (11)	604-10.63	CONCRETE REPAIRS (CRACKS)	L.F.	155	105		60	45	50	50	
(12)	604-10.70	EXPANSION JOINT REPAIRS	L.F.	140	80		40	40	60	60	
(13)	617-02	BRIDGE DECK CRACK SEALING	L.F.	1725	1050	1050			675	675	
	617-04.01	TYPE 1 THIN EPOXY OVERLAY (EPOXY-URETHANE)	S.Y.	8840	5202	5202			3638	3638	
(14)	617-05	SEALANT (HMWM)	GAL.	23	14	14			9	9	
(15)	707-07.01	CHAIN-LINK FENCE (BRIDGES)	S.F.	900	900						
(16)	709-02.01	RUBBLE STONE RIP-RAP (GROUTED)	C.Y.	40	25				15		

FOOTNOTES:

(1) ITEM INCLUDES COMPLETE REMOVAL OF EXISTING EXPANSION JOINTS AND RELATED PORTIONS OF THE ABUTMENTS, DECK, BRIDGE RAIL AND MEDIAN RAIL CONCRETE, JOINT EDGE BEAMS, DAMAGED PORTIONS OF ABUTMENT ENDWALLS AND OTHER AREAS DESIGNATED IN THE PLANS.

(2) ITEM INCLUDES ALL NECESSARY TEMPORARY SUPPORT OF THE STRUCTURE DURING THE DURATION OF THE PROJECT. ALSO INCLUDES FORMWORK TO STOP DEBRIS FROM FALLING ONTO CSXT RAILROAD TRACKS AND RIVERGATE PARKWAY. BRACING PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

(3) NOTE: THE CONTRACTOR IS REQUIRED TO PROCEED ACCORDINGLY TO TAKE ALL MANDATORY SAFEGUARDS PRESCRIBED BY STATE AND FEDERAL LAW FOR BOTH WORKER PROTECTION AND HAZARDOUS MATERIAL DISPOSAL. ALL GIRDERS AND BRACING WITHIN A DISTANCE OF 5 FEET FROM THE END OF BEAMS AT ABUTMENT NO. 1 & NO. 2 AND OTHER AREAS DESIGNATED BY THE ENGINEER SHALL BE BLAST CLEANED AND PAINTED. SEE TENNESSEE STANDARD SPECIFICATIONS SECTION 602.49 AND 602.50 AND GENERAL NOTES. APPROXIMATE WEIGHT OF STEEL TO BE PAINTED IS 25 TONS. COLOR TO MATCH EXISTING AND SYSTEM A SHALL BE USED.

(4) INCLUDES ALL ITEMS NECESSARY TO COMPLETE PAINTING OF AREAS OF STEEL BEAMS (SYSTEM A) AS DESIGNATED BY THE ENGINEER. ALL WORK SHALL BE IN FULL COMPLIANCE WITH THE STANDARD SPECIFICATIONS.

(5) NOTE: CLASS "A' CONCRETE FOR ABUTMENT MODIFICATIONS SHALL BE f'c = 3,000 psi (18 HOUR).

(6) FOR NOTES AND LIMITS OF TEXTURE COATING, SEE DETAIL ON SHEET BR-114-145.

(7) THIS ITEM IS BID ON THE CONTINGENCY MAY BE INCREASED, DECREASED OR ELIMINATED FROM THE PROJECT AS DIRECTED BY THE ENGINEER.

(8) INCLUDES ALL REINFORCING AS SPECIFIED IN THE PLANS INCLUDING EPOXY COATING DESIGNATED BARS AND COUPLERS (IF REQUIRED). ALSO INCLUDES REQUIRED DRILLING AND GROUTING OF BARS AND DRILLING THROUGH EXISTING STEEL BEAMS FOR PLACEMENT OF REINFORCING BARS.

(9) ITEM INCLUDES FURNISHING ALL MATERIALS, TOOLS AND LABOR NECESSARY FOR COMPLETION OF REPAIRS TO EXISTING PARAPET AND MEDIAN BARRIER RAIL FROM REMOVAL OF EXISTING EXPANSION JOINTS AND OTHER AREAS DESIGNATED BY THE ENGINEER. REFER TO STANDARD DRAWINGS FOR REQUIRED SUPPLEMENTAL REINFORCING STEEL. 1" DEEP SAW CUT JOINT AT ENDS OF BRIDGE IN ALL RAILS IN ALSO INCLUDED IN THIS ITEM.

(10) INCLUDES ALL LABOR, TOOLS AND MATERIALS FOR THE COMPLETE INSTALLATION OF NEW EXPANSION JOINTS (INCLUDING NEW CONCRETE ELASTOMERIC HEADERS) BETWEEN EXISTING PAVEMENT AT BRIDGE ENDS AND ROADWAY PAVEMENT. SEE BRIDGE SHEET BR-114-149 FOR COMPLETE DETAILS AND RELATED NOTES.

(11) INCLUDES ALL LABOR, TOOLS AND MATERIALS FOR THE COMPLETE REPAIR OF CRACKS AS DESIGNATED IN THE PLANS. SEE BRIDGE SHEET BR-114-154 FOR NOTES AND DETAILS.

(12) INCLUDES ALL LABOR, TOOLS AND MATERIALS FOR THE COMPLETE REPAIR OF EXISTING OPEN JOINTS BETWEEN EXISTING PAVEMENT AT BRIDGE ENDS AND WINGWALL / BRIDGE RAIL. SEE BRIDGE SHEET BR-114-149 FOR COMPLETE DETAILS AND RELATED NOTES.

(13) NOTE: INCLUDES ALL COSTS FOR INSTALLING THE BRIDGE DECK CRACK SEALER (HMWM) INCLUDING CRACK PREPARATION, CLEANING, LABOR AND ALL MISCELLANEOUS MATERIALS REQUIRED TO SEAL THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS ACCORDING TO SPECIAL PROVISION 604CR AND MANUFACTURER'S SPECIFICATIONS. THIS ITEM DOES NOT INCLUDE THE COST OF FURNISHING THE SEALANT ITSELF.

(14) NOTE: INCLUDES ALL COST FOR FURNISHING THE SEALER (HMWM) FOR SEALING CRACKS. THE SEALER (HMWM) SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 604CR.

(15) NOTE: QUANTITIES ARE BASED ON A 5' TALL FENCE MOUNTED ON TOP OF THE OUTSIDE BARRIER WALLS EXTENDING 90' ON EACH SIDE. SEE ROADWAY SHEET 7A FOR ADDITIONALS NOTES AND DETAILS.

(16) ERODED AREAS AT BRIDGE ENDS TO BE FILLED AS DIRECTED BY THE ENGINEER. RUBBLE STONE RIP-RAP SHALL BE HAND-PLACED IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS. GROUT TO BE APPLIED AS LAYERS OF RIP-RAP ARE PLACED.

(17) INCLUDES SPALLED AREAS IN THE APPROACH SLAB AS DESIGNATED BY THE ENGINEER..

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
19012-4159-04	2014	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	2/4/14	GSP	ADDED ITEMS 604-10.34 & 604-10.56

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2/5/2014
PRF

DESIGNED BY GRESHAM SMITH & PARTNERS DATE 6/13
DRAWN BY GDY DATE 6/13
SUPERVISED BY TAK DATE 6/13
CHECKED BY TQT DATE

GS&P GRESHAM SMITH AND PARTNERS

TED A. KNIAZEWICZ REGISTERED ENGINEER XV AGRICULTURE OKLAHOMA NO. 020751 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

1 ESTIMATED BRIDGE QUANTITIES

BRIDGE NO. 1
BR. NO. 19-I0065-20.10
BRIDGE NO. 2
BR. NO. 19-I0065-20.26
DAVIDSON COUNTY
2014

BR-114-144