

COMMON GENERAL NOTES

GENERAL NOTES FOR BRIDGE "B"

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	27050(04)	2017		
DESCRIPTION				REVISIONS	DATE

SPECIFICATIONS:

Comply with the requirements of the 2009 Oklahoma Standard Specifications for Highway Construction, except as modified by the Plans and Special Provisions.

VERIFICATION OF EXISTING CONDITIONS:

All dimensions of the existing components shown on the plans are approximate. The Contractor shall verify all data necessary to connect the new material and shall be solely responsible for the accuracy thereof.

Bidders shall fully inform themselves of the nature of the work and conditions under which it will be performed. The Contractor shall adopt methods consistent with good construction practice and shall take all necessary precautions to prevent damage to the existing bridge or attachments. Any damage to the existing bridge structure or roadway due to the Contractor's negligence shall be repaired at the Contractor's expense, to the satisfaction of the Engineer.

Contractor shall be aware of existing conditions and potential hazards during construction. Contractor shall take precautions to maintain the integrity of any existing utilities and structures. Any damage to these items during construction shall be repaired and/or replaced at the Contractor's expense to the Engineer's satisfaction.

PLANS:

The original project plans are available from:
 Reproduction Branch
 Oklahoma Department of Transportation
 200 N.E. 21st Street
 Oklahoma City, Oklahoma 73105

The bridges were constructed under the following Project No.
 F.A.P. No. U-F-232(32)
 Bridge "A" = Structure "A"
 Bridge "B" = Structures "68"
 Bridge "C" = Structure "B"

CONCRETE:

All concrete shall be placed in the dry. All exposed edges shall have a 3/4" chamfer unless noted or shown on plans. All chamfer strips shall be sized lumber. All Class "A" and Class "AA" Concrete shall be air-entrained.

All concrete for RCB's (Bridges "A" & "B") and Raised Median (Bridge "C") shall be Class AA, f'c = 4,000 p.s.i. minimum strength at 28 days. When vibrating concrete containing epoxy coated reinforcing steel, the vibrator shall be equipped with a sheath designed to prevent damage to the epoxy coating.

REINFORCING:

All reinforcing steel shall have 2" clearance unless shown or noted otherwise. All reinforcing steel shall be deformed bars, cold bent with no welds. Bar bend dimensions are out to out, unless noted otherwise. All reinforcing steel to be Grade 60.

Field welding of crossing reinforcing bars shall not be permitted. Tack welding of reinforcing bars shall be prohibited in all cases.

GENERAL NOTES FOR BRIDGE "A"

REMOVAL OF BRIDGE ITEMS:

The pay item "REMOVAL OF BRIDGE ITEMS" shall include the removal and disposal of portions of the existing Triple 10'x8' Reinforced Concrete Box Culvert as specified or shown in the plans including the following:

1. Wings at the exit of the structure.
2. 5'-0" of the existing RCB Barrel Section and concrete at the exit of the structure. Longitudinal reinforcement shall be preserved and cleaned to be lap spliced with the new RCB reinforcement.
3. The existing RCB Barrels shall be cleaned of all debris including silt and soil buildup.

When removing the above mentioned items, the Contractor shall take every precaution necessary to prevent damaging the barrel section of the existing RCB. Any damages caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

All costs necessary to complete the work as specified or as shown in the plans including the cost of sawing, cutting, demolition, cleaning and straightening reinforcing steel, removal and disposal of debris, materials, labor, equipment and incidentals shall be included in the price bid per Lump Sum of "REMOVAL OF BRIDGE ITEMS".

REMOVAL OF BRIDGE ITEMS:

The pay item "REMOVAL OF BRIDGE ITEMS" shall include the removal and disposal of portions of the existing Quadruple 5'x2' Reinforced Concrete Box Culvert as specified or shown in the plans including the following:

1. Wings at the exit of the structure.
2. 14'-0" along centerline of the existing RCB Barrel Section and concrete at the exit of the structure. Longitudinal reinforcement shall be preserved and cleaned to be lap spliced with the new RCB reinforcement.
3. The existing RCB Barrels shall be cleaned of all debris including silt and soil buildup.

When removing the above mentioned items, the Contractor shall take every precaution necessary to prevent damaging the barrel section of the existing RCB. Any damages caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

All costs necessary to complete the work as specified or as shown in the plans including the cost of sawing, cutting, demolition, cleaning and straightening reinforcing steel, removal and disposal of debris, materials, labor, equipment and incidentals shall be included in the price bid per Lump Sum of "REMOVAL OF BRIDGE ITEMS".

GENERAL NOTES FOR BRIDGE "C"

REMOVAL OF BRIDGE ITEMS:

The pay item "REMOVAL OF BRIDGE ITEMS" shall include the following as shown in the plans:

1. Removal and disposal of the existing 4" Raised Median on the bridge and roadway as specified or shown in the plans.
2. Drilling out the exposed ends of the embedded existing transverse reinforcing steel found in the existing raised median on the approach roadway and bridge. Patch drilled holes using Class A Bridge Deck Repair.

When removing the Raised Median, the Contractor shall take every precaution necessary to prevent damaging the existing Bridge Floor Overlay on the existing bridge. Any damages caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

All costs necessary to complete the work as specified or as shown in the plans including the cost of sawing, cutting, drilling out reinforcing, patching, demolition, cleaning and straightening reinforcing steel, removal and disposal of debris, materials, labor, equipment and incidentals shall be included in the price bid per Lump Sum of "REMOVAL OF BRIDGE ITEMS".

BRIDGE DECK CONCRETE OVERLAY:

The High Density Concrete Overlay shall conform to Section 505 of the Standard Specifications.

All concrete for the proposed Bridge Deck Overlay repairs shall be Class AA, f'c = 4,000 p.s.i. minimum strength at 28 days. When vibrating concrete containing epoxy coated reinforcing steel, the vibrator shall be equipped with a sheath designed to prevent damage to the epoxy coating.

The concrete used for the 2" concrete bridge deck overlay repair shall have steel and polypropylene fiber blend additives such as Novomesh 850 manufactured by Propex, PSI Crimped Steel Fiber FB manufactured by Euclid Chemical or approval equal. Fiber additives shall conform to Section 701.15 of the Standard Specifications and Special Provision Section 435 "Fiber Reinforced, Bonded Portland Cement Concrete Overlay". Application rate shall be a minimum of 40 pounds of fiber reinforcement per cubic yard of concrete. Fiber reinforcement will not be measured for payment. All costs of fiber reinforcement to be included in the price bid per Cubic Yard of "CLASS AA CONCRETE".

The cost of repairing the 2" concrete bridge deck overlay repairs including surface preparation, materials, equipment, labor and incidentals, at the discretion of the Engineer, shall be included in the price bid per Square Yard of "BRIDGE DECK CONCRETE OVERLAY".

DIAMOND GRINDING:

Diamond Grinding may be required to provide a smooth driving surface once the existing raised median is removed from the approach roadway & bridge surfaces and shall be performed in accordance with Section 425 of the Standard Specifications. Under no circumstances shall the diamond grinding process remove or damage the existing Bridge Floor Overlay on the bridge deck. The Contractor shall take every precaution necessary to prevent damaging the existing Bridge Floor Overlay on the bridge deck. Any damages caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

All materials removed from Bridge "C" shall become the property of the Contractor and shall be disposed of in a manner approved by the Engineer.

All costs of the Diamond Grinding including disposal of removed materials, vacuuming, shielding, slurry removal, jack hammering in areas inaccessible to the diamond grinding equipment and all other aspects of work necessary to provide a smooth driving surface shall be included in the price bid per Square Yard of "DIAMOND GRINDING CONCRETE PAVEMENT".

RAPID CURE JOINT SEALANT:

The longitudinal joints between the approach roadway & bridge driving surfaces & existing/proposed raised median & the sawed construction joints of the proposed Raised Median shall be sealed with rapid cure joint sealant as shown in the plans.

All costs including materials, labor, equipment and incidentals necessary to complete the work as shown in the plans shall be included in the price bid per Linear Foot of "RAPID CURE JOINT SEALANT".

27050(04)		PAY QUANTITIES		1-44	
0200 BRIDGE "A"		OVER MISSION CREEK			
ITEM	DESCRIPTION	UNIT	QUANTITY		
202(A) 1301	UNCLASSIFIED EXCAVATION	(BR-1) C.Y.	337.000		
501(A) 1306	STRUCTURAL EXCAVATION UNCLASSIFIED	(BR-1) C.Y.	202.000		
509(A) 1326	CLASS AA CONCRETE	(BR-1) C.Y.	379.100		
511(A) 1332	REINFORCING STEEL	(BR-1) LB.	55,013.000		
619(B) 2500	REMOVAL OF BRIDGE ITEMS	LSUM	1.000		

27050(04)		PAY QUANTITIES		1-44	
0201 BRIDGE "B"		OVER CREEK			
ITEM	DESCRIPTION	UNIT	QUANTITY		
202(A) 1301	UNCLASSIFIED EXCAVATION	(BR-1) C.Y.	243.000		
501(A) 1306	STRUCTURAL EXCAVATION UNCLASSIFIED	(BR-1) C.Y.	147.000		
509(A) 1326	CLASS AA CONCRETE	(BR-1) C.Y.	316.700		
511(A) 1332	REINFORCING STEEL	(BR-1) LB.	49,569.000		
601(A) 1351	TYPE I PLAIN RIPRAP	TON	64.000		
619(B) 2500	REMOVAL OF BRIDGE ITEMS	LSUM	1.000		

27050(04)		PAY QUANTITIES		1-44	
0202 BRIDGE "C"		UNDER ROGERS LANE			
ITEM	DESCRIPTION	UNIT	QUANTITY		
425 5195	DIAMOND GRINDING CONCRETE PAVEMENT	(BR-2) S.Y.	79.000		
504(G) 6390	RAPID CURE JOINT SEALANT	(BR-1) L.F.	1,747.900		
505(A) 6065	BRIDGE DECK CONCRETE OVERLAY	(BR-3) S.Y.	77.000		
509 6152	SPECIAL CONCRETE FINISH	(BR-4) S.Y.	2,401.000		
509(A) 1326	CLASS AA CONCRETE	(BR-1) C.Y.	66.900		
511(B) 6010	EPOXY COATED REINFORCING STEEL	(BR-1) LB.	15,946.000		
512 6280	CLEANING AND PAINTING OF BRIDGE METAL RAIL	(BR-4) L.F.	328.600		
619(B) 2500	REMOVAL OF BRIDGE ITEMS	LSUM	1.000		

BR-1:

Payment for this item will be based on the plan quantities only. See Section 109.01.B of the Standard Specifications.

BR-2:

To be used at the discretion of the Engineer for grinding smooth the driving surface of the approach roadway & existing Bridge Floor Overlay in the areas shown on Sheet Nos. 151 & 152 once the existing Raised Median is to be removed.

BR-3:

To be used at the discretion of the Engineer for repairing damaged areas of the existing Bridge Floor Overlay once the existing Raised Median is removed. For additional information, see the General Note "BRIDGE DECK CONCRETE OVERLAY" on this sheet.

BR-4:

See General Notes on Sheet No. 17A for specific information related to the aesthetic applications.

1-44		COMANCHE COUNTY		DESIGN	BSB	04/13
BRIDGES "A", "B" & "C"				DETAIL	BSB	04/13
SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE) (SHEET 1 OF 2)				CHECK	BRT	08/17
				GARVER		
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION				
		JOB PIECE NO. 27050(04)		SHEET NO. 17		