

REVISIONS		
REV. NO.	DESCRIPTION	DATE

**GENERAL NOTES**

**SPECIFICATIONS:**

COMPLY WITH THE REQUIREMENTS OF THE 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

**PLANS:**

CONSTRUCTION PLANS FOR THE EXISTING STRUCTURES, MAY BE OBTAINED FROM THE REPRODUCTIONS BRANCH OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION.

REPRODUCTION BRANCH  
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
200 NE 21ST STREET  
OKLAHOMA CITY, OKLAHOMA 73105

ASK FOR:  
BRIDGE "A": F-219(17), US-69 SB OVER US-70 IN BRYAN COUNTY  
BRIDGE "B": F-219(17), US-69 NB OVER US-70 IN BRYAN COUNTY  
BRIDGE "C": F-219(17), US-69 SB OVER W ARKANSAS ST & R.R. IN BRYAN COUNTY  
BRIDGE "D": F-219(17), US-69 NB OVER W ARKANSAS ST & R.R. IN BRYAN COUNTY  
BRIDGE "E": FAP NO F-94(7), US-270 OVER A OK R.R. IN PITTSBURG COUNTY

**VERIFICATION OF EXISTING CONDITIONS:**

ALL DIMENSIONS OF THE EXISTING BRIDGE COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO COMPLETE THE PROJECT AS DESCRIBED 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 ANY EXISTING BRIDGE STRUCTURE OR ROADWAY. ANY DAMAGE TO THE BRIDGE STRUCTURE OR ROADWAY DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

**REMOVED MATERIAL:**

ALL MATERIAL AND DEBRIS REMOVED DURING THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

**CLEANING BRIDGE SEATS AND PIER CAPS:**

ALL BRIDGE SEATS AND PIER CAPS SHALL BE SWEEPED CLEAN OF ALL DEBRIS. ALL COSTS CLEANING THE BRIDGE SEATS AND PIER CAPS SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

**LANE CLOSURE:**

THE ENGINEER RESERVES THE RIGHT TO PROHIBIT LANE CLOSURES DURING HOLIDAYS OR SPECIAL EVENTS.

**CLEANING OF DECK DRAINS AND DRAINS AT END OF BRIDGE:**

ALL PARAPET/RAIL OPENINGS, DECK DRAINS AND DRAINS AT THE ENDS OF BRIDGE SHALL BE CHECKED FOR FUNCTIONALITY AND CLEARED OF ALL DEBRIS AS NEEDED TO ENSURE THAT WATER DRAINS FROM THE BRIDGE NORMALLY. THE METHOD FOR CLEANING THE DRAINS SHALL BE APPROVED BY THE ENGINEER AND SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

**CLEANING OF EXISTING EXPANSION JOINTS:**

THE CONTRACTOR SHALL CLEAN THE EXISTING EXPANSION JOINT(S) OF DIRT, TRASH, GRAVEL AND OTHER DEBRIS AS MAY BE PRESENT IN THE OPENING OF THE EXPANSION JOINT. CLEANING MAY BE ACCOMPLISHED BY SWEEPING, COMPRESSED AIR, PRESSURE WASH OR OTHER METHOD AS APPROVED BY THE ENGINEER FOR THE SPECIFIC JOINT TYPE.

THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING JOINT MEMBRANES, GLANDS OR EXPANSION COMPONENTS. ANY DAMAGE TO THE EXPANSION JOINTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE OR FAILURE OF EXPANSION COMPONENTS UNCOVERED DURING CLEANING SHALL BE REPORTED TO THE ENGINEER.

ALL COSTS OF CLEANING THE EXISTING EXPANSION JOINTS AT LOCATIONS SHOWN IN THE PLANS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

**ANCHORAGE ASSEMBLIES: (REINFORCING STEEL)**

THE CONTRACTOR SHALL HAVE THE OPTION OF THE METHOD BY WHICH TO ANCHOR NEW REINFORCING STEEL TO THE EXISTING STRUCTURE AS SHOWN IN THE PLANS. ANCHORAGES INTO THE EXISTING CONCRETE SHALL BE THE SIZE SHOWN IN THE PLANS AND SHALL BE CONNECTED IN ACCORDANCE WITH SECTION 509.04D(3) AND SUBSECTION 701.13 OF THE STANDARD SPECIFICATIONS, AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE SYSTEM USED.

ALL COSTS TO CONNECT THE NEW REINFORCING AS SHOWN IN THE PLANS INCLUDING, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS SHALL BE INCLUDED IN THE QUANTITY FOR CLASS 'AA' CONCRETE.

**TINING:**

ALL NEWLY-POURED CONCRETE FOR EXPANSION AND CONSTRUCTION JOINT CUTBACKS SHALL BE TINED IN ACCORDANCE WITH 504.04(G) OF THE 1999 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. ALL COSTS ASSOCIATED WITH TINING SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK.

**PAY ITEM NOTES**

**(1) REHABILITATED CONSTRUCTION JOINTS AT ABUTMENTS / APPROACHES: (MASTIC ASPHALT) (BRIDGE "A", "B", "C", "D" & "E")**

THE CONSTRUCTION JOINTS AT ABUTMENTS / APPROACHES INDICATED IN THE PLANS SHALL BE SEALED WITH MASTIC ASPHALT JOINT MATERIAL AND RAPID CURE JOINT SEALANT AS SHOWN IN PLANS AND IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATION.  
MASTIC ASPHALT JOINT MATERIAL MUST MEET THE PHYSICAL PROPERTIES AS FOLLOWS:

MASTIC BINDER	TEST METHOD	SPECIFICATIONS
PENETRATION @ 0 F (-18 C)	ASTM D-5329	10 DMM MINIMUM
PENETRATION @ 77 F (25 C)	ASTM D-5329	70 DMM MINIMUM
PENETRATION @ 140 F (65 C)	ASTM D-5329	85 DMM MINIMUM
FLOW # 140 F (60 C)	ASTM D-5329	3 DMM MAXIMUM
EXTENSION/ELONGATION	DAC	1000%
SOFTENING POINT (R&B)	ASTM D-36	180 F(82 C)MINIMUM
LOW TEMPERATURE FLEXIBILITY	DAC	PASS @ 0 F (-18 C)
ASPHALT COMPATIBILITY	ASTM D-5329	COMPLETE
SAFE HEATING TEMPERATURE	ASTM D-5167	400 F (204 C)MAXIMUM***
RECOMMENDED APPLICATION TEMPERATURE RANGE	390 -400 F (200-204 C)**	
PROPERTIES AND CONDITIONS MAY CHANGE WITHOUT NOTICE.		

\*\*\*TEMPERATURE OF PRODUCT MEASURED AT PAVEMENT SURFACE. USE MAXIMUM APPLICATION TEMPERATURE IN COOL WEATHER.  
\*\*PROLONGED HEATING AT OR ABOVE SAFE HEATING TEMPERATURE MAY SEVERELY DAMAGE PRODUCT. MINERAL AGGREGATE

SIEVE SIZE	1-1/2" (37.5 MM)	90% PASSING MINIMUM
SIEVE SIZE	1" (25 MM)	80% PASSING MINIMUM
SIEVE SIZE	1/2" (12.5 MM)	50% PASSING MINIMUM

THE RAPID CURE JOINT SEALANT SHOULD BE APPLIED TO A DEPTH NEEDED TO BRING IT LEVEL WITH THE FINISHED ROADWAY AND HAVE A MINIMUM THICKNESS OF 3/8".

ALL COSTS OF MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE WORK AS SHOWN INCLUDING THE USE OF 'RAPID CURE JOINT SEALANT' OVER THE MASTIC ASPHALT IN ORDER TO PRESERVE THE APPLICATION OF 'MASTIC' SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC FOOT OF 'MASTIC ASPHALT JOINT MATERIAL'

**(2) REHABILITATED EXPANSION JOINT WITH PREFORMED SILICONE EXPANSION MATERIAL AND ELASTOMERIC MORTAR: (BRIDGE "A", "B", "C" & "D")**

SEAL EXISTING EXPANSION JOINTS AS SHOWN IN THE PLANS WITH PREFORMED SILICONE EXPANSION MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS 701-18(A-B)09 AND 504-8(A-C)09.

BROKEN OR SPALLED CONCRETE SHALL BE REPAIRED AS SHOWN IN THE PLANS WITH ELASTOMERIC MORTAR IN ACCORDANCE WITH SUBSECTION 504.04C(2) OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL TAKE CARE NOT TO CUT INTO EXISTING DECK REINFORCING. ANY DAMAGE TO THE REINFORCING, EXISTING BEAMS, COVER PLATES, SHEAR CONNECTORS OR STRUCTURAL BRACING DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "EXPANSION DEVICE" AND THE UNIT PRICE BID PER CUBIC FOOT OF "ELASTOMERIC MORTAR".

**(3) REHABILITATED CONSTRUCTION JOINT: (BRIDGE "A", "B", "C" & "D")**

THIS WORK CONSISTS OF REPLACING THE EXISTING CONSTRUCTION JOINT AT THE LOCATION INDICATED. REMOVE THE DECK TWO FEET EACH SIDE OF THE JOINT. CLEAN AND STRAIGHTEN THE EXISTING LONGITUDINAL REINFORCING STEEL IN ACCORDANCE WITH SUBSECTION 513.04D(3) OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. NEW CONCRETE SHALL BE CLASS AA CONCRETE AND THE NEW REINFORCING SHALL BE GRADE 60 EPOXY-COATED REINFORCING STEEL.

ANY DAMAGE TO THE EXISTING BEAMS, COVER PLATES, SHEAR CONNECTORS AND STRUCTURAL BRACING DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE EXISTING DECK REINFORCING STEEL SHALL BE CLEANED, STRAIGHTENED, AND LEFT IN PLACE. EXISTING NON-EPOXY COATED REINFORCING STEEL AND DECK AREAS EXPOSED MAY BE TREATED WITH CORROSION INHIBITOR. IF THE DIVISION ELECTS TO USE CORROSION INHIBITOR IT SHALL BE APPLIED ACCORDING TO THE SPECIAL PROVISIONS AND PAID FOR SEPARATELY PER UNIT PRICE BID FOR SQUARE YARD OF "(SP) CORROSION INHIBITOR (SURFACE APPLIED)".

MECHANICAL SPLICES FOR JOINING THE REINFORCING STEEL MAY BE CONSIDERED FOR USE WITH THE APPROVAL OF THE ENGINEER.

ALL COSTS FOR THE REPLACEMENT OF THE CONSTRUCTION JOINT INCLUDING EQUIPMENT, MATERIAL, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF "CLASS AA CONCRETE" AND THE UNIT PRICE BID PER POUND OF "EPOXY COATED REINFORCING STEEL".

ALL COSTS OF SEALING NEW CONSTRUCTION JOINTS AT COLD POUR LOCATIONS AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "SEALER CRACK PREPARATION" AND PRICE BID PER GALLON OF "SEALER RESIN".

THE SEALING OF THE PARAPETS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "RAPID CURE JOINT SEALANT".

**(4) CLASS B BRIDGE DECK REPAIR: (BRIDGE "A", "C" & "D")**

THIS REPAIR CONSISTS OF REMOVING AND REPLACING PORTIONS OF UNSOUND CONCRETE ON THE BRIDGE DECK DOWN TO THE BOTTOM MAT OF REINFORCING STEEL IN ACCORDANCE WITH SECTION 513.04 D(2) OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

THE CONTRACTOR SHALL NOT REMOVE CONCRETE BELOW THE LEVEL SPECIFIED. IF SOUND CONCRETE IS NOT REACHED BY THIS LEVEL OF REPAIR, THE CONTRACTOR SHALL IMMEDIATELY REPORT THIS TO THE ENGINEER FOR FURTHER ACTION.

THE ACTUAL LOCATION AND EXTENT OF THE REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PAYMENT SHALL BE FOR THE ACTUAL REPAIRS MADE. NO PAYMENT SHALL BE MADE FOR WORK NOT PERFORMED.

THE EXISTING DECK REINFORCING STEEL SHALL BE CLEANED, STRAIGHTENED, AND LEFT IN PLACE. EXISTING NON-EPOXY COATED REINFORCING STEEL AND DECK AREAS EXPOSED MAY BE TREATED WITH CORROSION INHIBITOR. IF THE DIVISION ELECTS TO USE CORROSION INHIBITOR IT SHALL BE APPLIED ACCORDING TO THE SPECIAL PROVISIONS AND PAID FOR SEPARATELY PER UNIT PRICE BID FOR SQUARE YARD OF "(SP) CORROSION INHIBITOR (SURFACE APPLIED)".

ALL COSTS OF THE REPAIR INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CLASS "B" BRIDGE DECK REPAIR".

**(5) CLASS C BRIDGE DECK REPAIR: (BRIDGE "A", "B" & "D")**

THIS REPAIR CONSISTS OF REMOVING AND REPLACING PORTIONS OF UNSOUND CONCRETE ON THE BRIDGE DECK THE FULL DEPTH OF THE DECK IN ACCORDANCE WITH SECTION 513.04 D(3) OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

THE CONTRACTOR SHALL USE THE APPROPRIATE FORM WORK FOR THE AREA OF REPAIR AS APPROVED BY THE DIVISION IN ACCORDANCE WITH SECTION 502 OF THE STANDARD SPECIFICATIONS.

THE ACTUAL LOCATION AND EXTENT OF THE REPAIR SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PAYMENT SHALL BE FOR THE ACTUAL REPAIRS MADE. NO PAYMENT SHALL BE MADE FOR WORK NOT PERFORMED.

THE EXISTING DECK REINFORCING STEEL SHALL BE CLEANED, STRAIGHTENED, AND LEFT IN PLACE. EXISTING NON-EPOXY COATED REINFORCING STEEL AND DECK AREAS EXPOSED MAY BE TREATED WITH CORROSION INHIBITOR. IF THE DIVISION ELECTS TO USE CORROSION INHIBITOR IT SHALL BE APPLIED ACCORDING TO THE SPECIAL PROVISIONS AND PAID FOR SEPARATELY PER UNIT PRICE BID FOR SQUARE YARD OF "(SP) CORROSION INHIBITOR (SURFACE APPLIED)".

ALL COSTS OF THE REPAIR INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CLASS "C" BRIDGE DECK REPAIR".

**(6) REHABILITATED EXPANSION JOINT WITH ELASTOMERIC MORTAR, SAW AND SEAL: (BRIDGE "B")**

REHABILITATE EXISTING EXPANSION JOINT BY REBUILDING THE JOINT WITH ELASTOMERIC MORTAR AND SAWING AND SEALING WITH BACKER ROD AND RAPID CURE JOINT SEALANT PLACED IN ACCORDANCE WITH SECTION 415 AND SUBSECTION 701.08G OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND AS SHOWN IN THE PLANS. ENSURE THAT NEW ELASTOMERIC MORTAR MATCHES GRADE WITH SURFACE CONCRETE OR ASPHALT OVERLAY.

THE CONTRACTOR SHALL TAKE CARE NOT TO CUT INTO EXISTING DECK REINFORCING OR STRUCTURAL STEEL, UNLESS IT IS SPECIFICALLY REQUESTED BY THE PLANS, ANY DAMAGE TO THE REINFORCING, EXISTING BEAMS, COVER PLATES, SHEAR CONNECTORS OR STRUCTURAL BRACING DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "RAPID CURE JOINT SEALANT" AND THE UNIT PRICE BID PER CUBIC FOOT OF "ELASTOMERIC MORTAR".

**(7) FINGER JOINT REHABILITATION: (BRIDGE "E")**

THE EXISTING FINGER TYPE EXPANSION JOINTS ON THE AFFECTED BRIDGES SHALL BE RETROFITTED WITH ANGLES AND SEALED WITH ELASTOMERIC MORTAR AND RAPID CURE JOINT SEALANT IN ACCORDANCE WITH SECTION 415, SUBSECTION 504.04C(2) AND SUBSECTION 701.08G OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND AS SHOWN IN THE PLANS.

ALL COSTS INCLUDING ANGLES, WELDING, LABOR, EQUIPMENT, MATERIAL, TROUGH REMOVAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "RAPID CURE JOINT SEALANT" AND THE UNIT PRICE BID PER CUBIC FOOT OF "ELASTOMERIC MORTAR".

**(8) REHABILITATED CONSTRUCTION JOINT WITH PREFORMED SILICONE FOAM JOINT: (BRIDGE "E")**

SEAL EXISTING CONSTRUCTION JOINTS AS SHOWN IN THE PLANS WITH PREFORMED SILICONE FOAM JOINT MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISION 504-X(A-C)09.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "PREFORMED SILICONE FOAM JOINT".

MULTIPLE LOCATIONS		DIVISION TWO	
Design	N/A	N/A	
Detail	TEE	3/16	
Check	N/A	N/A	
Squad	HENSFLEY		
Engr.	DEFRANCO		
<b>STATE OF OKLAHOMA</b>	<b>DEPARTMENT OF TRANSPORTATION</b>		
JOB/PIECE NO.	24333(08)		SHEET NO. AB01

GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (SHEET 1 OF 3)(BRIDGE)