

**GENERAL BRIDGE NOTES:**

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

THE 6" PERFORATED PIPE UNDERDRAIN ROUND AND THE 6" NON-PERFORATED PIPE UNDERDRAIN ROUND, AS SHOWN ON THE STANDARDS, SHALL NOT BE INSTALLED.

PLACE 2" VENT PIPE IN THE DECK SLAB BETWEEN EACH BEAM IN EACH SPAN. TOTAL 8.0 EACH VENTS. COST TO BE INCLUDED IN COST OF CLASS AA CONCRETE.

**ABUTMENT PILING CAPACITY:**

THE REQUIRED ULTIMATE PILE CAPACITY FOR HP 12X53 IS 67.20 TONS/PILE.

THE REQUIRED ULTIMATE PILE CAPACITY FOR HP 10X42 IS 67.20 TONS/PILE.

THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

**ANCHOR BOLTS:**

SIZING: THE MINIMUM REQUIREMENT FOR ANCHOR BOLT SIZE AND LENGTH (FIXED OR EXPANSION BEARING) IS 1/2" DIAMETER BOLT - SET 15" MINIMUM INTO CONCRETE.

**BRIDGE PAY ITEM NOTES:**

- (1) PAYMENT FOR PAY ITEMS WILL BE BASED ON PLAN QUANTITIES ACCORDING TO SECTION 109.01(b) OF THE STANDARD SPECIFICATIONS.
- (2) THE "REMOVAL OF EXISTING BRIDGE STRUCTURE" SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF 3-9 CONCRETE SLAB SPAN BRIDGE. THE REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BY HIM/HER IN A MANNER APPROVED BY THE ENGINEER
- (3) 18" RIPRAP ESTIMATED AT 120 LBS PER C.F.
- (4) INCLUDES REMOVAL OF THE EXISTING RETAINING WALL AND PIPE FENCE ON THE NORTHWEST CORNER OF THE BRIDGE.
- (5) CLSM BACKFILL SHALL BE USED IN PLACE OF THE GRANULAR BACKFILL AS SHOWN ON ODOT STANDARD
- (6) QUANTITY INCLUDES 27.50 CY TO PLACE THE CLSM AT A MINIMUM OF 1.0" THICK UNDER THE APPROACH SLAB.
- (7) THE FLOOR AND CURTAIN WALLS OF THE EXISTING STRUCTURE ARE TO REMAIN IN PLACE TO MINIMIZE SCOUR.
- (8) REMOVED MATERIAL IS TO BE PLACED IN THE SCOUR AREA ON THE NORTH SIDE OF THE BRIDGE AND TO BE GROUTED WITH CLASS "C" CONCRETE.
- (9) TO BE USED TO GROUT THE REMOVED EXISTING BRIDGE MATERIAL ON THE NORTH SIDE OF THE BRIDGE. ALL COST ASSOCIATED WITH THE GROUTING SHALL BE INCLUDED IN THE PRICE BID FOR CLASS C CONCRETE.

**ENVIRONMENTAL MITIGATION NOTES**

**BAT SPECIES NOTE:** THE NORTHERN LONG EARED BAT ARE MIGRATORY, INSECT EATING BATS PROTECTED BY THE ENDANGERED SPECIES ACT. THESE SPECIES CAN USE BRIDGES AS SUMMER ROOSTING SITES. IF THE BRIDGE REMOVAL OR MODIFICATIONS IS TO OCCUR BETWEEN APRIL 1 AND NOVEMBER 15, THE RESIDENT ENGINEER SHALL CONTACT THE ODOT BIOLOGIST AT 405-521-2515 TO CONDUCT A BAT SURVEY. THE SURVEY CAN BE CONDUCTED ONLY BETWEEN MAY 15 AND AUGUST 15. IF LISTED BAT SPECIES ARE DETECTED, THE ODOT BIOLOGICAL RESOURCES PROGRAM WILL CONSULT WITH US FISH AND WILDLIFE SERVICE. WORK ON THE BRIDGE WILL BE RESTRICTED AND MAY BE PROHIBITED FOR ALL OF PART OF THE DURATION OF THE BAT'S MATERNITY ROOSTING SEASON. ANY DELAY DUE TO THIS WILL NOT BE COMPENSATED.

**AMERICAN BURYING BEETLE:** THE AMERICAN BURYING BEETLE IS A LARGE CARRION BURYING BEETLE THAT IS LISTED AS ENDANGERED UNDER THE ENDANGERED SPECIES ACT. IN ORDER TO AVOID ADVERSE IMPACTS, NO ARTIFICIAL LIGHTING SHALL BE USED DURING CONSTRUCTION. CARCASSES AND ALL FOOD TRASH SHALL BE REMOVED FROM THE PERMANENT AND TEMPORARY RIGHT-OF-WAY THROUGHOUT PROJECT ACTIVITIES.

**RIPARIAN VEGETATION:** THE REMOVAL OF TREES AND SHRUBS SHALL BE RESTRICTED TO AREAS WITHIN THE ACTUAL LIMITS OF CONSTRUCTION. TREES TO REMAIN IN PLACE SHALL BE FLAGGED WITH BRIGHT-COLORED FLAGS BY THE RESIDENT ENGINEER.

MIGRATORY BIRDS ARE PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. THESE BIRDS COMMONLY USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR THE BIRDS RUNS FROM APRIL 1 TO AUGUST 31. ANY ACTIVITIES WHICH WOULD DESTROY ACTIVE NESTS OR HARM EGGS OR BIRDS WOULD VIOLATE THE MIGRATORY BIRD TREATY ACT. MIGRATORY BIRD USE OF BRIDGE NIB NO. 07077 WAS NOT OBSERVED DURING THE INITIAL SURVEYS CONDUCTED AS PART OF THE BIOLOGICAL STUDIES IN JULY 2016. MIGRATORY BIRDS MAY OCCUPY THE BRIDGE IN THE FUTURE NESTING SEASONS. THE RESIDENT ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDED WHETHER THE PROPOSED WORK WOULD POSE DISRUPTION TO ANY NESTING BIRDS BEFORE WORK NEAR THE STRUCTURE IS AUTHORIZED. IF THE PROPOSED WORK WILL HARM ANY NESTING BIRDS, THE BRIDGE MAY BE NETTED PRIOR TO APRIL 1 OR THE WORK DELAYED UNTIL THE NESTING SEASON IS COMPLETE. METHODS OTHER THAN NETTING MUST BE PRE-APPROVED BY THE ODOT BIOLOGIST.

29946(04) SUMMARY OF PAY QUANTITIES				
0200 BRIDGE TYPE II - 60' P.C. BEAM, 26'-0" CL RDWY, TR3-2				
ITEM NO.	DESCRIPTION		UNIT	QUANT.
501(B) 1307	SUBSTRUCTURE EXCAVATION COMMON		(1) CY	180.00
501(G) 6309	CLSM BACKFILL		(1)(5)(6) CY	93.50
503(A) 1311	PRESTRESSED CONCRETE BEAMS (TYPE II)		(1) LF	179.00
504(A) 1304	APPROACH SLAB		(1) SY	114.80
504(B) 1305	SAW-CUT GROOVING		(1) SY	239.96
504(D) 6239	CONCRETE RAIL (TR3)		(1) LF	176.00
506(A) 1322	STRUCTURAL STEEL		(1) LB.	1400.00
507(A) 6172	WEATHERING STEEL FIXED BEARING ASSEMBLY		(1) EA	3.00
507(B) 6176	WEATHERING STEEL EXPANSION BEARING ASSEMBLY		(1) EA	3.00
509(A) 1326	CLASS AA CONCRETE		(1) CY	48.50
509(B) 1328	CLASS A CONCRETE		(1) CY	60.40
509(D) 1331	CLASS C CONCRETE		(9) CY	20.00
511(A) 1332	REINFORCING STEEL		(1) LB.	20,160.00
514(A) 6010	PILES, FURNISHED (HP 10X42)		LF	106.96
514(A) 6011	PILES, FURNISHED (HP 12X53)		LF	234.64
514(B) 6292	PILES, DRIVEN (HP 10X42)		LF	106.96
514(B) 6294	PILES, DRIVEN (HP 12X53)		LF	234.64
514(L) 6220	PILE SPLICE, H-PILE (NON-BIDDABLE)		EA	1.00
601(B) 1353	TYPE I-A PLAIN RIPRAP		(3) TON	374.00
601(I) 6312	FILTER BLANKET (RIPRAP)		SY	461.00
619(D) 1397	REMOVAL OF EXISTING BRIDGE STRUCTURE		(1)(2)(4)(7)(8) LSUM	1.00

29946(04) PAY QUANTITIES				
0600 STAKING				
ITEM NO.	DESCRIPTION		UNIT	QUANT.
642(B) 0096	CONSTRUCTION STAKING LEVEL II		LSUM	1.00

**SUMMARY OF GUARD RAIL**

LOCATION	Lane		Anchor Units			Total Panel Length Including Anchor Units	Total Rail Between Anchor Units
	Lt.	Rt.	Type "D-BF"	Type "B"	GET EXTRUDER TERMINAL		
			Ea.	Ea.	Ea.		
102+00.05 TO 103+00.05	X		1		1	100	25
102+00.05 TO 103+00.05		X	1		1	100	25
103+85.88 TO 104+85.88	X		1		1	100	25
103+85.88 TO 104+85.88		X	1		1	100	25
Totals			4		4	400	100

EW-1470/SW-LIMESTONE RD. LATIMER COUNTY  
**SOUTHEAST #3 CIRCUIT ENGINEERING DISTRICT**  
 SUMMARY OF QUANTITIES  
 BRIDGE  
 STATE JOB NO. 29946(04) SHEET NO. ABO1