

ROADWAY GENERAL CONSTRUCTION NOTES

THE CONTRACTOR SHALL CONTACT ODOT AT 918-838-9933 AND COUNTY AT 918-454-2488 14 DAYS PRIOR TO COMMENCING WORK.

COUNTY ROAD 0510 IS TO BE CLOSED DURING CONSTRUCTION.

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE TRAFFIC CONTROL DROP-OFF STANDARD TCS29-1 SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

MEET AND MATCH GRADE ON THE ROADWAY.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY STOCK TIGHT RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO MATERIALS ARE TO BE STORED IN THE FLOODPLAIN.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.

T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER 811 OR 1-800-522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ENVIRONMENTAL MITIGATION NOTES

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.

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 NBI NO. 04189 HAS BEEN OBSERVED DURING THE INITIAL SURVEY CONDUCTED AS PART OF THE BIOLOGICAL STUDIES IN 2016. THE RESIDENT ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDE 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.

SPECIAL PAY ITEM NOTES

(1) INCLUDES THE REMOVAL AND DISPOSAL OF TREES, BRUSH, WEEDS, BROKEN CONCRETE, ROCKS, MISCELLANEOUS DEBRIS AND R.O.W. RESTORATION.

(2) PRICE SHALL INCLUDE THE COST OF EXCAVATION, HAULING, PLACEMENT, COMPACTION AND DISPOSAL OF WASTE SOIL.

(3) PRICE INCLUDES FINE GRADING AND FERTILIZING. PRICE SHALL INCLUDE ALL EROSION & SEDIMENT CONTROL MEASURES TO COMPLY WITH THE SP3 AND EROSION CONTROL PLAN. (SEE SHEETS R01 & R02)

(4) COST INCLUDES REPLACEMENT OF DEAD SOD UNTIL AN ACCEPTABLE STAND HAS BEEN ESTABLISHED.

(5) PRICE INCLUDES THE REMOVAL OF ALL ITEMS REQUIRED FOR THE COMPLETION OF THE PROJECT AS SHOWN, BUT NOT SPECIFICALLY INCLUDED IN OTHER PAY ITEMS. INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, GUARDRAILS, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.

(6) COST INCLUDES MATERIALS AND CONSTRUCTION OF THE FOUNDATION, PRECAST CONCRETE BRIDGE UNITS,

HEADALLS, AND WINGWALLS FOR A 36'-0" WIDE X 8'-11 1/2" TALL CONSPAN (OR APPROVED EQUAL) STRUCTURE AS DETAILED IN THESE PLANS. COST ALSO INCLUDES EXCAVATION, BACKFILL AND CLSM REQUIRED FOR PLACEMENT OF STRUCTURE.

(7) TO INCLUDE 135 C.Y. OF AGGREGATE BASE TYPE A TO BE PLACED BENEATH THE SEGMENTS OF WINGWALL FOOTINGS BEARING ON SHEET 11.

(8) TO INCLUDE 1700 C.Y. OF SELECT BACKFILL AT 'CRITICAL BACKFILL ZONE' BEHIND THE WINGWALL AND AROUND THE PRECAST ARCH, AS IDENTIFIED ON SHEET 13, WILL BE BACKFILLED UNDER 'AGGREGATE BASE TYPE A' PAY ITEM. THE BACKFILL MATERIAL MUST MEET THE SOIL REQUIREMENTS SPECIFIED ON SHEET 13.

(9) THE WINGWALLS WILL BE PAID FOR IN SQUARE YARDS OF 'RETAINING WALL' AS MEASURED FROM TOP OF THE FOOTING TO THE WALL TOP. THE PRICE BID SHALL INCLUDE THE COST OF ALL PREFABRICATED ELEMENTS, EQUIPMENT AND LABOR, GROUT, ANCHOR UNITS, CONNECTION PLATES AND HARDWARE, AND ALL MISCELLANEOUS ITEMS AS SHOWN IN THE PLANS.

(10) ESTIMATED AT 140 LBS. PER CU. FT.

(11) ITEM "REMOVAL OF EXISTING BRIDGE STRUCTURE" CONSISTS OF REMOVAL OF A 1-25' AND 1-27' I-BEAM SPANS AT APPROXIMATE CENTERLINE STATION 15+00.53 (NOT SET). THE REMOVAL SHALL BE IN ACCORDANCE WITH SECTION 619.04(b)2 OF THE 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND IN A MANNER APPROVED BY THE ENGINEER.

(12) THE CONTRACTOR SHALL REMOVE BEAMS FROM THE EXISTING BRIDGE WITH CARE AND PLACE THEM ON THE RIGHT-OF-WAY FOR COUNTY REMOVAL. THE CONTRACTOR SHALL ENSURE THAT THE BEAMS ARE FREE OF CONSTRUCTION DEBRIS AND CONCRETE. THE REMAINING STRUCTURE AND MATERIALS REMOVED DURING THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING BRIDGE, AS DESCRIBED ABOVE AND AS DIRECTED BY THE ENGINEER INCLUDING LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "REMOVAL OF EXISTING BRIDGE STRUCTURE".

(13) THIS ITEM TO BE UTILIZED IF ROCK EXCAVATION IS NECESSARY FOR ROADWAY CONSTRUCTION. THE EXTENTS WILL BE AGREED TO BY THE ENGINEER PRIOR TO BEGINNING THIS ACTIVITY. THE RESPONSIBILITY FOR MEASURING, DOCUMENTING, AND COMPUTING THIS QUANTITY WILL BE INCLUDED IN THE COST BID FOR CONSTRUCTION STAKING.

(14) CONSTRUCTION STAKING SHALL INCLUDE ESTABLISH AND RE-ESTABLISH STAKING OF CENTERLINE, BENCHMARKS, AND RIGHT OF WAY. INCLUDES SLOPE STAKING, STRUCTURE AND BRIDGE STAKING, ROADWAY STAKING (DRIVEWAYS INCLUDED), BLUETOPPING, AND CHECKING ALIGNMENTS AND ELEVATIONS AS REQUIRED.

(15) QUANTITY INCLUDES 6" OF T.B.S.C. OVER BRIDGE BACKFILL ZONE B AND 8" OF SUBGRADE METHOD B UP TO BRIDGE BACKFILL ZONE B.

ROADWAY PAY ITEM NOTES

(R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.

(R-5) AN ESTIMATED QUANTITY OF 87 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.

(R-7) FOR 205(A) TYPE A SALVAGED TOPSOIL, PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER OR APPROVED EQUIVALENT, ESTIMATED AT 150 POUNDS PER ACRE.

(R-8) FOR 230 (A) SOLID SLAB SODDING, PRICE TO INCLUDE COST OF WATERING, ESTIMATED AT 80 GALLONS PER S.Y.

(R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.

(R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.

(R-52) INCLUDES 2% FOR GROUND MEASUREMENT.

(R-53) ALL GATES AND GATE END POSTS FOR STRANDED WIRE FENCE (SWF) SHALL BE CONSTRUCTED AT THE SAME WIDTH AS THE EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION

1. MOBILIZATION
2. INSTALL TRAFFIC AND EROSION CONTROL
3. CONSTRUCT NEW BRIDGE
4. CONSTRUCT NEW ROAD
5. OPEN ROAD

SUMMARY OF PAY ITEMS

SUMMARY OF SURFACING	
SUBGRADE, METHOD B	TRAFFIC BOUND SURFACE COURSE
310(B)	TYPE E 402(E)
S.Y.	TON
413.88	181.14

SUMMARY OF EROSION CONTROL				
TYPE A-SALVAGED TOPSOIL	TEMPORARY SILT FENCE	SOLID SLAB SODDING	TYPE I-A PLAIN RIPRAP	FILTER FABRIC (RIPRAP)
205(A)	221(C)	230(A)	601(B)	601(I)
C.Y.	L.F.	S.Y.	TON	S.Y.
72.28	237.80	520.42	218.00	277.00

SUMMARY OF EARTHWORK - ROADWAY

UNCLASSIFIED EXCAVATION	EMBANKMENTS
202(A)	202(F)
C.Y.	C.Y.
43.38	10.45

SUMMARY OF FENCE			
LOCATION		FENCE-STYLE	
STATION TO STATION	LT. RT.	SWF (5 BARBED WIRE)	624(C)
13+88.68 TO 14+92.77	X		114.28
13+89.62 TO 14+39.17	X		64.20
15+03.04 TO 16+16.39	X		129.21
16+04.57 TO 16+19.80	X		21.54
TOTALS=			329.23

RESPONSIBILITY OF COUNTY:

RIGHT-OF-WAY
UTILITY COORDINATION

OKLAHOMA DEPARTMENT OF TRANSPORTATION

DESCRIPTION	REVISIONS	DATE
REMOVED PAY ITEM	Δ1	OCT. 17, 2017
REMOVED PAY ITEM	Δ2	OCT. 23, 2017
ADDED PAY ITEM	Δ3	OCT. 23, 2017

PAY QUANTITIES				
ROADWAY 0100				
ITEM	DESCRIPTION	UNITS	QUANTITY	
201(A) 0102	CLEARING AND GRUBBING	(1) (5) LSUM	1	
202(A) 0183	UNCLASSIFIED EXCAVATION	(2) CY	43	
202(F) 0110	EMBANKMENTS	CY	10	
205(A) 4230	TYPE A-SALVAGED TOPSOIL	(R-5) CY	72	
221(C) 2801	TEMPORARY SILT FENCE	(3) (R-11) LF	238	
230(A) 2806	SOLID SLAB SODDING	(3) (4) (R-7) (R-8) SY	520	
310(B) 0149	SUBGRADE, METHOD B	(15) SY	414	
402(E) 0225	TRAFFIC BOUND SURFACE COURSE TYPE E	(11) (15) TON	181	
619(A) 0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(R-48) (R-49) LSUM	1	
624(C) 4459	FENCE-STYLE SWF (5 BARBED WIRE)	(R-52) (R-53) LF	329	

PAY QUANTITIES				
BRIDGE 0200				
ITEM #	DESCRIPTION	UNITS	QUANTITY	
202(A) 1301	UNCLASSIFIED EXCAVATION	(R-1) CY	2500	
202(C) 0182	ROCK EXCAVATION	(13) CY	100	
303(A) 2100	AGGREGATE BASE TYPE A	(7) (8) (R-1) CY	1835	
508 6359	PRECAST ARCH CULVERT (BRIDGE A)	(6) (R-1) LF	38	
509(A) 1326	CLASS AA CONCRETE	(R-1) CY	43	
511(A) 0332	REINFORCING STEEL	(R-1) LB	926	
601(B) 1353	TYPE I-A PLAIN RIPRAP	(R-1) TON	218	
601(I) 6312	FILTER FABRIC (RIPRAP)	(R-1) SY	277	
619(D) 1397	REMOVAL OF EXISTING BRIDGE STRUCTURE	(11) (12) LSUM	1	

PAY QUANTITIES				
TRAFFIC 0300				
ITEM	DESCRIPTION	UNITS	QUANTITY	
880(B) 8818	CONSTRUCTION SIGNS 0 TO 6.25 SF	(TC-26) (TC-33) (TC-84) 5B	240	
880(B) 8821	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF	(TC-26) (TC-33) (TC-84) 5B	480	
880(B) 8824	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF	(TC-26) (TC-33) (TC-84) 5B	240	
880(C) 8842	CONSTRUCTION BARRICADES (TYPE III)	(TC-26) (TC-84) 5B	240	
880(E) 8868	WARNING LIGHTS (TYPE A)	(TC-26) (TC-84) 5B	480	
880(J) 8905	CONSTRUCTION TRAFFIC CONTROL	(TC-26) (TC-33) LSUM	1	

PAY QUANTITIES				
STAKING 0600				
ITEM	DESCRIPTION	UNITS	QUANTITY	
642(B) 0096	CONSTRUCTION STAKING LEVEL II	(14) LSUM	1	

PAY QUANTITIES				
CONSTRUCTION 0640				
ITEM	DESCRIPTION	UNITS	QUANTITY	
220 2800	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1	
641 1399	MOBILIZATION	LSUM	1	

DESIGN	RJP	6/17	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	ATD	6/17	
CHECKED	BWF	6/17	
APPROVED	WTM	6/17	
SQUAD	MESHEK		
COUNTY PAWNEE COUNTY RD. E0510 STATE JOB NO JP29930(04) SHEET NO AR01			PAY QUANTITIES & NOTES (ROADWAY & BRIDGE)

M:\COUNTY PAWNEE\13PAW03_County_Bridge_089\DESIGN\DRAWINGS\13PAW03_QUANT_ROADWAY.DWG