

**ROADWAY PAY QUANTITIES**

ITEM	DESCRIPTION	UNITS	QUANTITY
1000 - ROADWAY			
201(A)	CLEARING AND GRUBBING	(30)	LSUM
202(A)	UNCLASSIFIED EXCAVATION	(R-1)(24)(25)	CY
202(H)	EARTHWORK	(1)(2)	LSUM
221(C)	TEMPORARY SILT FENCE	(3)(32)	LF
221(F)	TEMPORARY SILT DIKE	(3)	LF
228	NYLON EROSION CONTROL MAT	(26)	SY
230(A)	SOLID SLAB SODDING	(R-7)(R-8)	SY
233(A)	2817 VEGETATIVE MULCHING	(R-11)(12)(33)	AC
303(A)	2100 AGGREGATE BASE TYPE A	(4)	CY
307(K)	4300 STABILIZED SUBGRADE	(R-25)(5)(6)	SY
402(A)	0217 TRAFFIC BOUND SURFACE COURSE TYPE A	(R-28)	TON
408	5774 PRIME COAT	(R-30)(R-32)(7)	GAL
411(B)	5945 SUPERPAVE. TYPE S3 (PG 64-22 OK)	(R-30)(R-32)(7)	TON
411(C)	5960 SUPERPAVE. TYPE S4 (PG 64-22 OK)	(R-32)(8)	TON
501(A)	0313 STRUCTURAL EXCAVATION UNCLASSIFIED	(R-1)	CY
501(G)	6315 CLSM BACKFILL	(29)	CY
509(A)	0319 CLASS AA CONCRETE	(R-1)	CY
509(D)	0325 CLASS C CONCRETE	(R-41)(23)	CY
511(A)	0332 REINFORCING STEEL	(R-1)	LB
601(A)	0297 TYPE I PLAIN RIPRAP	(9)(10)	TON
611(G)	5708 INLET CDI RCP DES. 5	(9)(10)	EA
611(G)	6004 INLET (SMD-TYPE 2A)	(11)	EA
611(G)	6006 INLET (SMD-TYPE 2B)	(11)	EA
613(A)	0493 30" R.C.PIPE CLASS III	(11)	LF
613(A)	0494 36" R.C.PIPE CLASS III	(11)	LF
613(A)	0496 48" R.C.PIPE CLASS III	(11)	LF
613(A)	4496 28" X 18" R.C.PIPE ARCH CLASS A-III	(11)	LF
613(A)	4497 36" X 22" R.C.PIPE ARCH CLASS A-III	(11)	LF
613(A)	4498 43" X 26" R.C.PIPE ARCH CLASS A-III	(11)	LF
613(B)	0689 18" CORR. GALV. STEEL PIPE	(11)	LF
613(B)	0690 24" CORR. GALV. STEEL PIPE	(11)	LF
613(B)	4527 21" X 15" CORR. GALV. STEEL PIPE ARCH	(11)	LF
613(B)	4528 28" X 20" CORR. GALV. STEEL PIPE ARCH	(11)	LF
613(B)	4529 35" X 24" CORR. GALV. STEEL PIPE ARCH	(11)	LF
613(B)	4530 42" X 29" CORR. GALV. STEEL PIPE ARCH	(11)	LF
613(B)	4531 49" X 33" CORR. GALV. STEEL PIPE ARCH	(11)	LF
613(L)	4504 21" X 15" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4515 28" X 18" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4516 28" X 20" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4522 35" X 24" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4526 36" X 22" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4530 42" X 29" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4531 43" X 26" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	4640 49" X 33" PREFAB. CULVERT END SECTION, ARCH	(11)	EA
613(L)	5726 18" PREFAB. CULVERT END SECTION, ROUND	(11)	EA
613(L)	5730 24" PREFAB. CULVERT END SECTION, ROUND	(11)	EA
613(L)	5732 30" PREFAB. CULVERT END SECTION, ROUND	(11)	EA
613(L)	5738 48" PREFAB. CULVERT END SECTION, ROUND	(11)	EA
613(M)	7189 TYPE D4 CULVERT END TREATMENT	(11)	EA
619(A)	0920 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	(R-48)(R-49)(13)(14)	LSUM
619(B)	4128 REMOVAL OF ASPHALT PAVEMENT	(27)(28)	SY
619(C)	0924 SAWING PAVEMENT	(27)(28)	LF
623(A)	1418 BEAM GUARDRAIL W-BEAM SINGLE	(15)	LF
623(F)	5686 GUARDRAIL ANCHOR UNIT (TYPE D-BF)	(15)	EA
623(F)	6029 GUARDRAIL ANCHOR UNIT (TYPE A)	(15)	EA
624(C)	4459 FENCE-STYLE SWF (5 BARBED WIRE)	(R-52)(R-53)(16)	LF
629(E)	5048 REMOVE AND RESET MAILBOX	(17)	EA
640(A)	1398 FIELD OFFICE	(31)	EA
805(D)	8756 (PL) REMOVE AND RESET EXISTING SIGNS	(18)(19)	EA
850(A)	8110 SHEET ALUMINUM SIGNS	(18)(19)	SF
851(C)	8327 2 1/4" SQUARE TUBE POST	(22)	LF
854(A)	8800 TRAFFIC STRIPE (PAINT) (4" WIDE)	(22)	LF
880(J)	8905 CONSTRUCTION TRAFFIC CONTROL	(20)	LSUM

**PAY QUANTITIES**

ITEM	DESCRIPTION	UNITS	QUANTITY
220	SWPPE DOCUMENTATION AND MANAGEMENT	LSUM	1.00
641	MOBILIZATION	LSUM	1.00

**PAY QUANTITIES**

ITEM	DESCRIPTION	UNITS	QUANTITY
0600 - STAKING			
642(B)	CONSTRUCTION STAKING LEVEL II	LSUM	1.00

<p>(R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.</p> <p>(R-7) FOR 230(A) PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 LBS. PER 1,000 SQUARE YARDS.</p> <p>(R-11) FOR 230(A) PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 80 GALLONS PER SQUARE YARD.</p> <p>(R-25) THE QUANTITY ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 57.5 ACRES.</p> <p>(R-28) ESTIMATED AT 120 LBS. PER CU. FT.</p> <p>(R-30) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.</p> <p>(R-30) PRICE BID TO INCLUDE COST OF 6.614 GALLONS OF TACK COAT MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.</p> <p>(R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.</p> <p>(R-41) QUANTITY INCLUDES AN ESTIMATED 50 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.</p> <p>(R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.</p> <p>(R-49) TO BECOME THE PROPERTY OF AND DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.</p> <p>(R-52) INCLUDES 2% FOR GROUND MEASUREMENT.</p> <p>(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.</p> <p>(1) SEE SUMMARY OF EARTHWORK QUANTITIES, SHEET NO. AX01.</p> <p>(2) INCLUDES COST OF SALVAGING AND PLACING TOPSOIL APPROXIMATELY 5 INCHES DEEP ON COMPLETED FORESLOPE, DITCHES AND BACKSLOPES AND 18-46-0 FERTILIZER (ESTIMATED AT 150 LBS PER ACRE). SEE TOPSOIL NOTE, SHEET NO. R002.</p> <p>(3) PRICE BID TO INCLUDE COST OF TEMPORARY SEDIMENT REMOVAL.</p> <p>(4) AGGREGATE BASE WILL BE MEASURED BY THE CUBIC YARD AND COMPACTED TO AT LEAST 98 PERCENT STANDARD PROCTOR DENSITY. MEASUREMENT BY THE CUBIC YARD WILL BE BASED ON THE ACTUAL LENGTH MULTIPLIED BY THE THEORETICAL CROSS SECTIONS SHOWN ON THE PLANS.</p> <p>(5) COST INCLUDES 1,000 TONS TO BE USED AS TEMPORARY ACCESS IN A MANNER APPROVED BY THE ENGINEER.</p> <p>(6) INCLUDES 140 TONS FOR RURAL DRIVES. (ESTIMATED)</p> <p>(7) INCLUDES 1,290 TONS FOR RURAL DRIVES. (ESTIMATED)</p> <p>(8) INCLUDES 870 TONS FOR RURAL DRIVES. (ESTIMATED)</p> <p>(9) ESTIMATED AT 110 LBS. PER CUBIC FOOT.</p> <p>(10) PRICE BID TO INCLUDE EXCAVATION FOR PLACEMENT OF RIPRAP.</p> <p>(11) PRICE BID INCLUDES TRENCH EXCAVATION &amp; STANDARD BEDDING QUANTITIES.</p> <p>(12) QUANTITY BASED ON 57.5 ACRES AT TWO APPLICATIONS.</p> <p>(13) A SUMMARY OF REMOVALS IS PROVIDED ON SHEET NO. AX04. IN ADDITION TO STRUCTURES LISTED, THE CONTRACTOR SHALL REMOVE OTHER OBSTRUCTIONS TO PROJECT COMPLETION FOR THE LUMP SUM PRICE BID. THE CONTRACTOR SHALL USE CAUTION TO SALVAGE ALL GUARDRAIL REMOVED TO BE REUSED LATER BY THE COUNTY.</p> <p>(14) COST INCLUDES HEADWALLS, WING WALLS, APRONS AND OTHER ITEMS DEEMED NECESSARY BY THE ENGINEER TO COMPLETE STRUCTURAL REMOVAL IN PREPARATION FOR EXTENSION OF EXISTING REINFORCED CONCRETE BOXES IN ACCORDANCE WITH STANDARD SBI-4.</p> <p>(15) PRICE BID TO INCLUDE THE COST OF 8 TYPE 1 CODE 3 DELINEATORS. (MAMBER COLOR)</p> <p>(16) ALL GATE, CORNER AND STRETCH POSTS SHALL BE STEEL PIPE AS PER STD. RWF2-2.</p> <p>(17) THE CONTRACTOR SHALL REMOVE AND RESET MAILBOXES AS NECESSARY. MAILBOXES ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIER'S CAR DURING CONSTRUCTION. ANY DAMAGE TO BOXES OR SUPPORTS SHALL BE REPAIRED BY THE CONTRACTOR.</p> <p>(18) HIGH INTENSITY REFLECTIVE SHEETING, TYPE III SHALL BE USED FOR ALL PERMANENT SIGNING.</p> <p>(19) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH THE O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1 (LATEST REVISION).</p> <p>(20) CONSTRUCTION TRAFFIC CONTROL SHALL INCLUDE ALL BARRICADES AND SIGNS REQUIRED ON EACH END OF THE CONSTRUCTION AREA AND OTHER AREAS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNS, BARRICADES, LIGHTS, ETC., ACCORDING TO THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND AS SHOWN ON THE STANDARD DRAWINGS. COST OF ALL NECESSARY CONSTRUCTION SIGNING WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "CONSTRUCTION TRAFFIC CONTROL."</p> <p>(21) IN ADDITION TO SECTION 642.04(B), THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: SURVEY CONTROL POINTS, REFERENCE POINTS AND BENCHMARKS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND REFRESHING THE CENTERLINE OF PERMANENT CONSTRUCTION, AND SETTING ALL OTHER CONTROL POINTS AND REFERENCE POINTS REQUIRED FOR CONSTRUCTION AND INSPECTION TO INCLUDE BRIDGE CURVES, CONSTRUCTION REFERENCE LINES (CRL), AND RIGHT-OF-WAY. THE SURVEYOR WILL PROVIDE THE RESIDENT ENGINEER WITH A COMPUTERIZED DISK OF SURVEY DATA. THE SURVEYOR WILL IDENTIFY AND VERIFY BENCHMARKS SET AND MAINTAIN ADDITIONAL BENCHMARKS WITHIN THE PROJECT UNITS AT A MINIMUM OF 500' SMOOTH TRANSITIONS AT THE BOP, FOP, AND BRIDGES AS REQUIRED IN SECTIONS 642.04(C). THE SURVEYOR WILL PROVIDE A COPY OF CHECKED BENCHMARKS TO THE RESIDENT ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO BEGINNING ANY EARTHWORK PAY ITEMS. THE CONTRACTOR SHALL PROVIDE FOR THE RESIDENT ENGINEERS USE A ROVING CABLE FREE INTEGRATED GPS &amp; RTK SYSTEM WITH FIELD CONTROLLER. THIS SYSTEM SHALL BE COMPATIBLE WITH THE SURVEY BASE STATION USED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THE BASE STATION DURING WORK HOURS FROM THE BEGINNING OF EARTHWORK ACTIVITIES UNTIL SUBSTANTIAL COMPLETION IS ACHIEVED. THE CONTRACTOR SHALL PROVIDE A ONE WEEK TRAINING COURSE FOR THIS EQUIPMENT FOR UP TO FOUR ODOT INSPECTORS. THIS TRAINING WILL BE CONDUCTED PRIOR TO COMMENCING EARTHWORK ACTIVITIES. THIS TRAINING SHALL INCLUDE ANY TECHNICAL SUPPORT REQUIRED BY THE INSPECTORS DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE OF EQUIPMENT. ALL COST OF THE SYSTEM TO BE INCLUDED IN THE STAKING PAY ITEM.</p> <p>(22) QUANTITY INCLUDES 33,730 L.F. OF 4" YELLOW CENTERLINE STRIPE AND 63,684 L.F. OF 4" WHITE EDGE LINE STRIPE.</p> <p>(23) INCLUDES 10 C.Y. TO BE USED AT THE INLET AND OUTLET OF STR. 23.</p> <p>(24) QUANTITY INCLUDES 7,966 C.Y. ASSOCIATED WITH STRUCTURES 18, 20, 29, 42, 45, 46, 53, 54, 55, 57, AND 59.</p> <p>(25) INCLUDES 1,000 C.Y. FOR MISCELLANEOUS EARTHWORK, WHERE NO QUANTITY IS SHOWN ON THE PLANS.</p> <p>(26) INCLUDES COST OF SEEDING METHOD 'A' AS SPECIFIED IN SECTION 232.04.B OF THE STANDARD SPECIFICATIONS.</p> <p>(27) ITEM INCLUDES MILLING THE EXISTING PAVEMENT IN ORDER TO USE MILLINGS FOR SHOULDERING ON THE PROPOSED ROADWAY.</p> <p>(28) ITEM INCLUDES THE REMOVAL OF ASPHALT THROUGH THE EXISTING BRIDGE EXCEPTION FROM STA. 183+67.39 TO STA. 184+65.21.</p> <p>(29) ITEM TO BE USED ON STR. 53 AND 54 IF VOIDS ARE ENCOUNTERED.</p> <p>(30) ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE AND NO BURNING WILL BE ALLOWED ON LANDOWNER'S REMAINING PROPERTY.</p> <p>(31) THE FIELD OFFICE IS TO BE EQUIPPED WITH A HARDWIRED INTERNET LINE FOR USE IN THE FIELD OFFICE. 1 MFR FOR USE OUTSIDE THE FIELD OFFICE (NEEDS TO WORK AT PROJECT LOCATION), AND SHALL PROVIDE POTABLE DRINKING WATER FOR INSPECTORS. ALL COST ASSOCIATED WITH THESE ITEMS, INCLUDING MONTHLY EXPENSES, SHALL BE INCLUDED IN THE PRICE BID FOR FIELD OFFICE.</p> <p>(32) COST INCLUDES 10,000 L.F. TO BE USED IN A MANNER APPROVED BY THE ENGINEER.</p> <p>(33) ITEM TO BE INSTALLED ON TEMPORARY SLOPES OR ON PERMANENT SLOPES DURING THE NON-GROWING SEASON FOR SOLID SLAB SODDING. ITEM SHOULD BE INSTALLED ON EXCAVATION OR EMBANKMENT SLOPES AS WORK PROGRESSES IN VERTICAL INCREMENTS OF NOT MORE THAN 10 FT. IF DURING SOLID SLAB SODDING GROWING SEASON AND PERMANENT SLOPES ARE COMPLETED, PERMANENT EROSION CONTROL MUST BE INSTALLED WITHIN THE ALLOWABLE EXPOSED 1 MILE SECTION BEFORE EXPOSING THE NEXT MILE SECTION.</p>	<table border="1"> <thead> <tr> <th>FED. ROAD DIST. NO.</th> <th>PROJECT NO.</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td align="center">6</td> <td></td> <td align="center">AR01</td> <td align="center">130</td> </tr> </tbody> </table> <p align="right">             8/16/17              8/16/17              ADDED PAY ITEM AND NOTE              ADDED NOTES              REMOVED ENVIRONMENTAL NOTES 8/16/17         </p>	FED. ROAD DIST. NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS	6		AR01	130
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OSWALT ROAD LOVE COUNTY

**SUMMARY OF PAY QUANTITIES**

JOB PIECE NO. 25447(04) SHEET NO. AR01