

| REV. NO. | DESCRIPTION | DATE |
|----------|------------------|------------|
| A | REMOVED PAY ITEM | 07-25-2016 |

SUMMARY OF PAY QUANTITIES - BRIDGE "A"

0200 BRIDGE "A": WESTBOUND S.H. 74 OVER I-35 J/P NO. 29572(04)

| ITEM NO. | DESCRIPTION | NOTES | UNIT | QUANTITY | |
|-------------------|-----------------|---|------------|-----------------|-----------------|
| 202(A) | 1301 | UNCLASSIFIED EXCAVATION | (BR-1, 2) | CY | 310.00 |
| 501(G) | 6309 | CLSM BACKFILL | (BR-3) | CY | 105.00 |
| 504(A) | 1304 | APPROACH SLAB | (BR-1, 4) | SY | 306.60 |
| 504(B) | 1305 | SAW-CUT GROOVING | (BR-1) | SY | 1,265.00 |
| 504(C) | 6250 | SEALED EXPANSION JOINT | (BR-1) | LF | 98.60 |
| 504(D) | 6245 | CONCRETE RAIL (TR4) | (BR-1) | LF | 598.90 |
| 504(E) | 6190 | 42" F-SHAPED PARAPET | (BR-1, 5) | LF | 162.50 |
| 506(A) | 1322 | STRUCTURAL STEEL | (BR-6) | LB | 5,310.00 |
| 509 | 6152 | SPECIAL CONCRETE FINISH | (BR-1, 7) | SY | 91.00 |
| 509(A) | 1326 | CLASS AA CONCRETE | (BR-1, 8) | CY | 370.00 |
| 509(D) | 1331 | CLASS C CONCRETE | | CY | 10.00 |
| 510(C) | 6137 | SLOPE WALL (4") | (BR-9) | SY | 120.00 |
| 511(B) | 6010 | EPOXY COATED REINFORCING STEEL | (BR-1, 8) | LB | 88,990.00 |
| 512(A) | 1323 | PAINTING EXISTING STRUCTURES | (BR-10) | LSUM | 1.00 |
| 512(B) | 6303 | COLLECTION AND HANDLING OF WASTE | | LSUM | 1.00 |
| 515(A) | 6013 | WATER REPELLENT (VISUALLY INSPECTED) | (BR-1) | SY | 399.00 |
| 520(A) | 6058 | PREPARATION OF CRACKS, ABOVE WATER | (BR-11) | LF | 50.00 |
| 520(C) | 6060 | EPOXY RESIN, ABOVE WATER | (BR-12) | GAL | 5.00 |
| 521(A) | 6210 | PNEUMATICALLY PLACED MORTAR | (BR-13) | SY | 15.00 |
| 523(A) | 6550 | SEALER CRACK PREPARATION | (BR-1) | LF | 99.60 |
| 523(B) | 6560 | SEALER RESIN | (BR-1, 14) | GAL | 2.00 |
| 525(A) | 0490 | (SD) NEST PREVENTION NETTING | | LSUM | 1.00 |
| 540 | 4515 | (PL) REPAIR BRIDGE ITEM (TYPE A) | (BR-15) | EA | 10.00 |
| 540 | 4525 | (PL) REPAIR BRIDGE ITEM (TYPE B) | (BR-16) | EA | 20.00 |
| 545 | 4815 | (PL) REPLACE BRIDGE ITEM (TYPE A) | (BR-17) | EA | 7.00 |
| 619(D) | 1397 | REMOVAL OF EXISTING BRIDGE STRUCTURE | (BR-18) | LSUM | 1.00 |

PAY QUANTITY NOTES

- (BR-1) PAYMENT TO THE CONTRACTOR SHALL BE BASED ON PLAN QUANTITIES. REFER TO THE 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (PLAN QUANTITIES 109.01B).
- (BR-2) ITEM "UNCLASSIFIED EXCAVATION" INCLUDES EXCAVATION FOR THE CONSTRUCTION OF THE CONCRETE PIER PROTECTION SYSTEM AT LOCATIONS SHOWN ON SHEETS 9-10 AND 28, AND DETAILED IN STD. CPP-1-00.
- (BR-3) CLSM BACKFILL SHALL BE PLACED UNDERNEATH THE APPROACH SLABS AS DETAILED IN THE PLANS. 5 C.Y. OF CLSM TO BE USED TO BACKFILL UNDER ABUTMENTS AT EACH BRIDGE AS DIRECTED BY THE ENGINEER.
- (BR-4) BRIDGE "A" APPROACH SLABS CONTAIN AN ESTIMATED TOTAL OF 111.0 C.Y. OF CLASS AA CONCRETE AND 22,310 LBS OF EPOXY COATED REINFORCING STEEL. BRIDGE "B" APPROACH SLABS CONTAIN AN ESTIMATED TOTAL OF 111.0 C.Y. OF CLASS AA CONCRETE AND 22,310 LBS OF EPOXY COATED REINFORCING STEEL. THE DEPARTMENT INCLUDES THE COST OF CLASS AA CONCRETE, EPOXY COATED REINFORCING STEEL (INCLUDING SR1 BARS), SAW-CUTTING PAVEMENT AT END OF APPROACH SLAB, SUBGRADE REMOVAL AND PREPARATION AS DIRECTED BY THE ENGINEER, SAW-CUTTING, BACKER ROD, POLYSTYRENE, RAPID CURE JOINT SEALANT, LABOR, EQUIPMENT AND INCIDENTALS INCLUDED IN THE CONTRACT UNIT PRICE PER S.Y. OF "APPROACH SLAB".
- (BR-5) ITEM "42" F-SHAPED PARAPET" IS INCLUDED FOR THE CONSTRUCTION OF THE CONCRETE PIER PROTECTION SYSTEM AT LOCATIONS SHOWN ON SHEETS 9-10 AND 28, AND DETAILED IN STD. CPP-1-00.
- (BR-6) ITEM "STRUCTURAL STEEL" INCLUDES THE SHEAR CONNECTORS PLACED ON TOP OF THE EXISTING BEAMS, STRUCTURAL STEEL QUANTITY ESTIMATED AT 1.14 LB AND 1.31 LB FOR EACH 6" AND 7" LENGTH STUD, RESPECTIVELY. ITEM ALSO INCLUDES 300 LBS. QUANTITY FOR MISCELLANEOUS REPAIRS TO THE TOP FLANGE OF BEAMS, TO BE USED AT THE DISCRETION OF THE ENGINEER.
- (BR-7) ITEM "SPECIAL CONCRETE FINISH" CONSISTS OF PROVIDING A CLASS C MORTAR FINISH ON ALL EXPOSED SURFACES OF ABUTMENTS, FRONT FACE OF ABUTMENT SEATS AND OUTSIDE FACE OF ABUTMENT SEATS.
- (BR-8) ITEM "CLASS AA CONCRETE" INCLUDES 81 C.Y. EACH FOR BRIDGE "A" AND BRIDGE "B" AND ITEM "EPOXY COATED REINFORCING STEEL" INCLUDES 5,260 LBS. EACH FOR BRIDGE "A" AND BRIDGE "B", FOR THE CONSTRUCTION OF THE CONCRETE PIER PROTECTION SYSTEM AT LOCATIONS SHOWN ON SHEETS 9-10 AND 28 AND DETAILED IN STD. CPP-1-00.
- (BR-9) ITEM "SLOPE WALL (4") CONSISTS OF REPLACEMENT OF DEFICIENT EXISTING SLOPE WALL AT LOCATIONS AND TO THE EXTENT DETERMINED BY THE ENGINEER. QUANTITY IS DETERMINED FROM FIELD INSPECTION. ALL COSTS TO REMOVE AND REPLACE SLOPE WALL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD OF "SLOPE WALL (4)". ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- (BR-10) ITEM "PAINTING EXISTING STRUCTURES" INCLUDES CLEANING AND PAINTING PORTIONS OF THE EXISTING GIRDERS AND DIAPHRAGMS PREVIOUSLY IN CONTACT WITH THE DECK SLAB AND AS DESIGNATED ON SHEET 20. CATEGORY "N" AND "E" SHALL BE USED FOR THE NEW STEEL AND TOP FLANGE OF EXISTING BEAMS, RESPECTIVELY. ALL REPLACEMENT AND NEW STRUCTURAL STEEL WILL BE PAINTED PER SPECIFICATIONS AND WILL BE INCLUDED IN OTHER ITEMS OF WORK.
- (BR-11) PREPARE SURFACE AND REBOND CRACKS AND DELAMINATIONS WITH EPOXY RESIN AS DIRECTED BY THE ENGINEER. THE ACTUAL LOCATIONS AND EXTENTS OF REPAIRS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. INCLUDE COSTS FOR LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN THE CONTRACT UNIT PRICE OF "PREPARATION OF CRACKS ABOVE WATER".
- (BR-12) EPOXY RESIN QUANTITY IS ESTIMATED AT 0.08 GALLONS PER FOOT.

- (BR-13) REPAIR BRIDGE SUBSTRUCTURE COMPONENTS WITH PNEUMATICALLY PLACED MORTAR IN ACCORDANCE WITH SECTION 521 OF THE STANDARD SPECIFICATIONS. THE EXTENT OF THE REPAIRS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL COST OF REPAIR, INCLUDING REMOVAL OF UNSOUND CONCRETE, LABOR, MATERIALS, TOOLS, REINFORCEMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "PNEUMATICALLY PLACED MORTAR". ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER.
- (BR-14) SEALER RESIN QUANTITY ESTIMATED AT 0.011 GALLONS PER FOOT OF CONSTRUCTION JOINT.
- (BR-15) ITEM "(PL) REPAIR BRIDGE ITEM (TYPE A)" INCLUDES THE REPAIR TO EACH PEDESTAL AS NOTED AND DETAILED ON SHEET 12, AND AS DIRECTED BY THE ENGINEER. THE ACTUAL LOCATIONS AND EXTENTS OF REPAIRS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE REPAIR ITEM REQUIRES AN ESTIMATED TOTAL OF 50 POUNDS OF EPOXY COATED REINFORCING STEEL AND 0.1 C.Y. OF CLASS AA CONCRETE PER EACH PEDESTAL. THE DEPARTMENT CONSIDERS THE COST OF MATERIALS, LABOR AND INCIDENTALS NECESSARY FOR THE COMPLETE REPAIR IN THE CONTRACT UNIT PRICE PER EACH "(PL) REPAIR BRIDGE ITEM (TYPE A)".
- (BR-16) ITEM "(PL) REPAIR BRIDGE ITEM (TYPE B)" INCLUDES THE RESETTING OF EACH EXPANSION ROLLER BEARING TO A VERTICAL POSITION. THE DEPARTMENT CONSIDERS THE COST OF MATERIALS, LABOR, AND INCIDENTALS NECESSARY FOR THE COMPLETED REPAIR IN THE CONTRACT UNIT PRICE PER EACH "(PL) REPAIR BRIDGE ITEM (TYPE B)".

THE CONTRACTOR SHALL BE REQUIRED TO JACK THE SUPERSTRUCTURE AND INSTALL FALSEWORK TO SUPPORT THE SUPERSTRUCTURE DURING THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH RESETTING EXISTING EXPANSION ROLLER BEARINGS AS DETAILED AND LOCATED IN THE PLANS. THE CONTRACTOR SHALL SUBMIT TO THE BRIDGE ENGINEER A PLAN FOR JACKING AND SUPPORTING THE SUPERSTRUCTURE. THE PLAN SHALL INCLUDE A LAYOUT OF JACKING AND FALSEWORK, JACKING SEQUENCE, JACK CAPABILITIES, AND STRUCTURAL CALCULATIONS FOR THE DESIGN OF THE FALSEWORK AND JACKING SCHEME. THE SUBMITTED PLAN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF OKLAHOMA. THE PLAN SHALL BE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, LATEST EDITION AND SECTION 502 OF THE CONSTRUCTION SPECIFICATIONS. JACKING SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS RECEIVED APPROVAL OF THE SUBMITTED PLAN FROM THE BRIDGE ENGINEER. ALL COST OF FALSEWORK, JACKS, ENGINEERING SERVICES, LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE IN THE CONTRACT UNIT PRICE PER EACH "(PL) REPAIR BRIDGE ITEM (TYPE B)".
- (BR-17) ITEM "(PL) REPLACE BRIDGE ITEM (TYPE A)" INCLUDES THE REPAIR TO THE DIAPHRAGMS AS NOTED AND DETAILED ON SHEET 19 AND 20. THE QUANTITY INCLUDES AN ADDITIONAL 3 EACH PER BRIDGE TO BE USED AS DIRECTED BY THE ENGINEER. EACH REPLACEMENT ITEM REQUIRES AN ESTIMATED TOTAL OF 280 LBS. OF STRUCTURAL STEEL. THE DEPARTMENT CONSIDERS THE COST OF MATERIALS, LABOR, AND INCIDENTALS NECESSARY FOR THE COMPLETED REPAIR IN THE CONTRACT UNIT PRICE PER EACH "(PL) REPLACE BRIDGE ITEM (TYPE A)".
- (BR-18) ITEM "REMOVAL OF EXISTING BRIDGE STRUCTURE" CONSISTS OF THE REMOVAL AND DISPOSAL OF PARAPETS, RAILING, BRIDGE DECK AND APPROACH SLABS WITH 38' CLEAR ROADWAY. THIS ITEM ALSO CONSISTS OF THE SAWING, REMOVAL AND DISPOSAL OF PORTIONS OF THE WINGWALLS, AND REMOVAL AND DISPOSAL OF ITEMS REMOVED WHEN MAKING REPAIR ITEMS NOTED IN THE PLANS. THIS ITEM ALSO INCLUDES REMOVAL OF EXISTING PIER PROTECTION SYSTEM.

SWALLOW NOTE

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. 17337 AND 17338 WAS NOT OBSERVED DURING THE INITIAL SURVEY CONDUCTED AS PART OF THE BIOLOGICAL STUDIES IN 2016. MIGRATORY BIRD USE OF THE REMAINING BRIDGES AND CULVERTS WAS NOT OBSERVED DURING THE INITIAL SURVEY. MIGRATORY BIRDS MAY OCCUPY THESE STRUCTURES IN THE FUTURE NESTING SEASONS. 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.

SUMMARY OF PAY QUANTITIES - BRIDGE "B"

0201 BRIDGE "B": EASTBOUND S.H. 74 OVER I-35 J/P NO. 29572(04)

| ITEM NO. | DESCRIPTION | NOTES | UNIT | QUANTITY | |
|-------------------|-----------------|---|------------|-----------------|-----------------|
| 202(A) | 1301 | UNCLASSIFIED EXCAVATION | (BR-1, 2) | CY | 320.00 |
| 501(G) | 6309 | CLSM BACKFILL | (BR-3) | CY | 105.00 |
| 504(A) | 1304 | APPROACH SLAB | (BR-1, 4) | SY | 306.60 |
| 504(B) | 1305 | SAW-CUT GROOVING | (BR-1) | SY | 1,265.00 |
| 504(C) | 6250 | SEALED EXPANSION JOINT | (BR-1) | LF | 98.60 |
| 504(D) | 6245 | CONCRETE RAIL (TR4) | (BR-1) | LF | 598.90 |
| 504(E) | 6190 | 42" F-SHAPED PARAPET | (BR-1, 5) | LF | 162.50 |
| 506(A) | 1322 | STRUCTURAL STEEL | (BR-6) | LB | 5,310.00 |
| 509 | 6152 | SPECIAL CONCRETE FINISH | (BR-1, 7) | SY | 91.00 |
| 509(A) | 1326 | CLASS AA CONCRETE | (BR-1, 8) | CY | 372.40 |
| 509(D) | 1331 | CLASS C CONCRETE | | CY | 10.00 |
| 510(C) | 6137 | SLOPE WALL (4") | (BR-9) | SY | 120.00 |
| 511(B) | 6010 | EPOXY COATED REINFORCING STEEL | (BR-1, 8) | LB | 89,120.00 |
| 512(A) | 1323 | PAINTING EXISTING STRUCTURES | (BR-10) | LSUM | 1.00 |
| 512(B) | 6303 | COLLECTION AND HANDLING OF WASTE | | LSUM | 1.00 |
| 515(A) | 6013 | WATER REPELLENT (VISUALLY INSPECTED) | (BR-1) | SY | 399.00 |
| 520(A) | 6058 | PREPARATION OF CRACKS, ABOVE WATER | (BR-11) | LF | 50.00 |
| 520(C) | 6060 | EPOXY RESIN, ABOVE WATER | (BR-12) | GAL | 5.00 |
| 521(A) | 6210 | PNEUMATICALLY PLACED MORTAR | (BR-13) | SY | 15.00 |
| 523(A) | 6550 | SEALER CRACK PREPARATION | (BR-1) | LF | 99.60 |
| 523(B) | 6560 | SEALER RESIN | (BR-1, 14) | GAL | 2.00 |
| 525(A) | 0490 | (SD) NEST PREVENTION NETTING | | LSUM | 1.00 |
| 540 | 4515 | (PL) REPAIR BRIDGE ITEM (TYPE A) | (BR-15) | EA | 10.00 |
| 540 | 4525 | (PL) REPAIR BRIDGE ITEM (TYPE B) | (BR-16) | EA | 20.00 |
| 545 | 4815 | (PL) REPLACE BRIDGE ITEM (TYPE A) | (BR-17) | EA | 11.00 |
| 619(D) | 1397 | REMOVAL OF EXISTING BRIDGE STRUCTURE | (BR-18) | LSUM | 1.00 |

STAKING 0600 **SUMMARY OF PAY QUANTITIES** J/P NO. 29572(04)

| ITEM NO. | DESCRIPTION | NOTES | UNIT | QUANTITY | |
|----------|-------------|-------------------------------|------|----------|------|
| 642(B) | 0096 | CONSTRUCTION STAKING LEVEL II | | LSUM | 1.00 |

CONSTRUCTION 0640 **SUMMARY OF PAY QUANTITIES** J/P NO. 29572(04)

| ITEM NO. | DESCRIPTION | NOTES | UNIT | QUANTITY | |
|----------|-------------|--------------|------|----------|------|
| 641 | 1399 | MOBILIZATION | | LSUM | 1.00 |

S.H. 74 OVER I-35 McCLAIN CO.

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| DESIGN | GDD | | OKLAHOMA DEPARTMENT OF TRANSPORTATION SUMMARY OF PAY QUANTITIES (BRIDGE) STATE JOB NO. 29572(04) SHEET NO. 3 |
| DRAWN | ZTF | | |
| CHECKED | JTK | | |
| APPROVED | | | |
| SQUAD | MacArthur | | |

PRINT DATE: 7/26/2016 T:\1420\Drawings\1420-sum01.dgn