

| OKLAHOMA    | DEPARTMENT OF | TRANSPORTATION) |
|-------------|---------------|-----------------|
| DESCRIPTION | REVISIONS     | DATE            |
|             |               |                 |

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| OKLAHOMA DEPARTMEN<br>OKLAHOMA DEPARTMEN<br>BRIDGE D<br>MOLANDE<br>DATE | RED BY:<br>T OF TRANSPORTATION<br>DIVISION<br>ELYAZGI, P.E.<br>D/201/2542<br>CFESSION<br>MOHAMED<br>F.<br>ELYAZGI<br>17542<br>CFESSION<br>MOHAMED<br>F.<br>ELYAZGI<br>17542<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>MOHAMED<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F.<br>CFESSION<br>F. |
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| DEPARTMENT OF TRANSPORTATION                                            | FEDERAL HIGHWAY ADMINISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DATE APPROVED                                                           | DATE APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CHIEF ENGINEER                                                          | DIVISION ADMINISTRATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| JP# 30318(06) PROJECT NO STPY-X                                         | XXXX(XX) SHEET NO. 0001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

#### GENERAL NOTES

#### SPECIFICATIONS

Comply with the requirements of the 2009 Oklahoma Standard Specifications for Highway Construction, except as modified by the Plans and Special Provisions

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 work and shall be solely responsible for the accuracy thereof. Bidders shall fully inform themselves of the nature of the work and condition under which it will be performed. The Contractor shall adopt methods consistent with good construction practice and shall take all necessary preventions to prevent damage to the existing bridge or attachments. Any damage to the existing bridge structure or roadway due to the Contractor's negligence shall be repaired at the Contractor's expense, to the satisfaction of the Engineer. Construction plans for the existing bridge structures may be obtained from the Reproduction Branch of the Oklahoma Department of Transportation. Ask for:

Bridge 'A' F.A.P. No. BRM-8401(14) Structure A, US-64 over Arkansas River;

in Tulsa County. Bridge 'B' F.A.P. No. BRM-8401(14) Structure B, US-64 over Arkansas River

Overflow; in Tulsa County.

Bridge "C" F.A.P. No. I-44-2(200)090 Structure B, I-44 over Arkansas River; Widening Project: 0637(44) Bridge 'B'; in Tulsa County.

Bridge 'D' F.A.P. No. I-44-2(149)090 Structure E, I-44 over Arkansas River; Widening Project: 0637(44) Bridge 'A'; in Tulsa County.

#### LANE CLOSURE:

The Engineer reserves the right to prohibit lane closures during holidays or special events. All work requiring the closing or narrowing of one lane of traffic on the bridges shall be performed during daylight hours only unless approved by the Engineer. The contractor shall make every effort to reopen these lane closures as soon as possible.

#### 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 swept clean of all debris at the conclusion of work. All costs for cleaning the bridge seats and pier caps shall be included in other items of work.

#### 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

EXISTING LIGHTING AND ELECTRICAL:

Lights and electrical conduits on the bridgeS shall not be removed or disturbed. If any part is removed or damaged during construction, it shall be replaced in the original condition at the Contractor's expense, to the satisfaction of the Engineer.

SPECIAL BRIDGE NOTES

## (1) REHABILITATED EXPANSION JOINTS: REPAIR BRIDGE ITEM (TYPE A) (BRIDGES 'A' AND 'B') REPAIR BRIDGE ITEM (TYPE B) (BRIDGES 'C' AND 'D')

Remove existing expansion angles, expansion anchor bars (where required) and existing concrete on the bridge deck side of existing expansion joint and down full depth as shown in the plans. Replace existing expansion device with new Sealed Expansion Joint in accordance with the bridge standards and section 415, subsection 504.04(C) and subsection 506.05(H) of the 2009 Oklahoma Standard Specifications for Highway Construction and as shown in the plans. The new deck concrete shall be finished by hand tining begining within 2 feet of the concrete curb or parapet and run continuously across the width of the deck to within 2 feet of the opposite curb or parapet. No tining shall be done within 6" of any joint. Contractor is allowed to use Early Strength Concrete at no additional costs to ODOT. All costs including labor, equipment, material, and incidentals necessary to complete the work as shown in the plans shall be included in the price bid per each of "REPAIR BRIDGE ITEM (TYPE A)" for Bridges 'A' and 'B' and "REPAIR BRIDGE ITEM (TYPE B)" for Bridges 'C' and 'D'.

(2) REHABILITATED CONSTRUCTION JOINT SAW AND SEAL: (BRIDGES A & B) (See Sheet "DETAILS OF REPAIR BRIDGES 'A' & 'B' (SHEET 2 OF 2))

Saw existing Construction Joints as shown in the plans and seal 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. 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".

(3) TRAFFIC MARKER REMOVAL: REPAIR BRIDGE ITEM (TYPE C) (BRIDGES A, B, C & D)

Remove all Traffic Markers and repair the area(s) of removal with Class A Bridge Deck Repair or per Engineer direction. Estimated quantities:



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 EACH of "REPAIR BRIDGE ITEM (TYPE C)

(4) STRUCTURE REPAIR WITH PNEUMATICALLY PLACED MORTAR: (BRIDGES A, B, C & D)

The pay item "Pneumatically Placed Mortar" consists of repairing surface areas of the

The pay item "Pneumatically Placed Mortar" consists of repairing surface areas of the Structure. The actual extent of the repairs shall be determined in the field by the engineer. The repairs shall be in accordance with section 521 of the 2009 Oklahoma Standard Specifications for Highway Construction and in a manner approved by the engineer. The removal of deteriorated concrete shall be done using hand tools. Power tools will not be allowed unless hand tools prove incapable of excavating all deteriorated concrete to sound concrete and as approved by the engineer. Should power tools be necessary, power tools shall be of a size approved by the engineer should power tools be necessary, power tools shall be of a size approved by the engineer should power tools be necessary, power tools shall be repaired at the contractor's expense to the satisfaction of the engineer. Any deteriorated concrete for the bridge engineer for remedial action. Prior to mortar application, blast clean the concrete surface and reinforcing steel free of debris and corrosion. Apply Pneumatically Placed Mortar to replace deteriorated concrete. Build up mortar to match the original lines and grades of the substructure.

the substructure. The contractor may propose and use as an alternate one of the following repair methods: (1) Cast-In-Place Concrete (2) Pre-Placed Aggregate Concrete and Mortar (3) Formed and Pumped Concrete and Mortar (4) Troweling and Dry-Packing of Repair Mortar The contractor shall submit a proposed work plan of the repair method to be used to the engineer for his approval. The work plan should include surface preparation methods, patching material, bonding agents, material placing methods, and finishing methods. The contractor shall test repair an area to verify the effectiveness of the proposed repair methods prior to commencement of the work. Faulty repairs shall be replaced at the contractor's expense to the satisfaction of the engineer. engineer

All costs including labor, equipment, material, and incidentals necessary to complete the work described above shall be included in the price bid per square yard of "PNEUMATICALLY PLACED MORTAR".

(5) BEAM ENDS REPAIR: (BRIDGE A) REPAIR BRIDGE ITEM (TYPE D)

(See Sheet "DETAILS OF REPAIR BRIDGES 'A' & 'B' (SHEET 2 OF 2))

An estimated quantity of 10 Beam Ends need repair as per the following description and as

An estimated quantity of to beam Ends need repair as per the following accomption and as directed by the Engineer: The Contractor shall remove unsound concrete from portion of beam to be wrapped and clean any exposed reinforcing steel. Apply Corrosion Inhibitor and Pneumatically Placed Mortar. Apply FRP to Beam End per drawing. All work shall be in accordance with 2009 Specifications. All costs including labor, equipment, material, and incidentals necessary to complete the work described above shall be included in the price bid per EACH of "REPAIR BRIDGE ITEM (TYPE D)".

(9) BEARING ASSEMBLIES REPLACEMENT: (BRIDGE A) REPLACE BRIDGE ITEM (TYPE A)

(10) PAINTING BEARINGS: (BRIDGE C & D) (10) PAINTING BEARINGS: (BRIDGE C & D) Bearing Assemblies shall be cleaned/sand blasted and painted with a zinc-rich paint system in accordance with section 512 of the 2009 Oklahoma Standard Specifications for Highway Construction and as directed by the Engineer. There is an estimated quantity of 160 bearings per Bridge which need painting. Some Bearing Assemblies have missing hardware, an estimated quantity of 100 lb. of structural steel should be included in this work item. All costs for completing the work as specified including labor, materials and incidentals shall be included in the unit bid price per Lump Sum of "PAINTING EXISTING STRUCTURES".

(6) CLASS B BRIDGE DECK REPAIR: (BRIDGES A, B, C & D)

The pay item "Class B Bridge Deck Repair" has been estimated to be used as directed by the engineer to repair any area of the deck requiring such repair. The location and extent of the deck repairs shall be as shown in the plans or as determined in the field by the engineer. Payment for actual repairs shall be done in accordance with section 513.04D(2) and subsection 701.20 of the 2009 Oklahoma Standard Specifications for Highway Construction. Early strength concrete shall be used at no additional cost to ODOT. All cost of repair including labor, equipment, material, and incidentals necessary to complete the work as described above shall be included in the price bid per square yard of "CLASS B BRIDGE DECK REPAIR".

(7) FLOOD COATING TREATMENT: (BRIDGES A, B, C & D)

A flood coat deck seal shall be applied to the driving surface of the Bridge Deck and Approach Slabs. The Contractor must protect all traffic striping from the flood coat deck seal. Any traffic striping rendered ineffective or damaged during the flood coat seal application shall be replaced at the Contractor's expense to the satisfaction of the Engineer. The Contractor must prevent the flood coat deck seal from penetrating any joint that has been sealed with silicone. If flood coat deck seal penetrates any silicone joint the Contractor, at his own expense, will be required to: 1) After bulk cure, remove all flood coat deck seal from these joints.

2) Remove and replace the silicord codt deck sed from these joints.
2) Remove and replace the silicore joint sedlant.
The application of the flood coat shall be in accordance with Section 523.04E of the Standard
Specification and shall be performed only after all other work is complete.
All costs including labor, equipment, material, and incidentals necessary to complete the work described above and as shown in the plans shall be included in the unit price bid per Square Yard of "DECK AREA SEALED (FLOOD COATS)".

(8) PAINTING BEARINGS AND DIAPHRAGM BOLTS: (BRIDGE A)

The exposed end areas of intermediate diaphragm bolts (outside beams)and all bearings (except those being replaced) shall be cleaned and painted with a zinc-rich paint system in accordance with section 512 of the 2009 Oklahoma Standard Specifications for Highway Construction and as directed by the Engineer. There is an estimated quantity of 150 Bearings on Bridge A which need painting. All costs for completing the work as specified including labor, materials and incidentals shall be included in the unit bid price per Lump Sum of "PAINTING EXISTING STRUCTURES" and "COLLECTION AND HANDLING OF WASTE".

Bearing Assemblies are to be replaced as determined in the field by the Engineer. An estimated total of 10 bearings will need replacement. There is an estimated 95 pounds of TYPE 3 Weathering Steel per Bearing Assembly. All cost of repair including labor, equipment, material, and incidentals necessary to complete the work as described above shall be included in the price bid per EACH of "REPLACE BRIDGE ITEM

| 1 | BRIDGES 'A' - 'D' |                         | TULSA COUNTY | Design                | N/A                 | N/A     |
|---|-------------------|-------------------------|--------------|-----------------------|---------------------|---------|
|   | JOINT MAINT.      |                         |              | Detail                | RWM                 | 6/16    |
|   | G                 | ENERAL NOTES            | 6            | Check                 | KMS                 | 6/16    |
|   |                   |                         |              | Squad: M<br>Engr.: El | AYFIEL<br>LYAZG     | .D<br>I |
|   |                   |                         |              |                       | <b>.</b> . <b>.</b> |         |
|   | STATE OF          | DEPARTMEN               | I OF TRANSP  | ŰR                    | IAI                 | ION     |
|   | OKLAHOMA          | JOB PIECE NO. 31944(04) |              |                       | SHEET NO.           | AB01    |
|   |                   |                         |              |                       |                     |         |

#### GENERAL NOTES

#### (11) REMOVAL OF VEGETATION: (BRIDGES A&B)

All trees, brush, shrubs, vines and other vegetation growing under the bridge or within ten feet of the overhang of the bridge deck shall be removed. Any vegetation or trees growing around or under the bridge or along the trail that is deemed by the Engineer to be a cause for concern to the structure shall also be removed at the discretion of the Engineer. Immediately following removal, a pre-approved herbicide should be applied per the manufacturer's instructions. All vegetation and debris shall be disposed of outside the Right-of-Way and in accordance with Section 201 of the Standard Specifications. All costs of clearing the bridge of vegetation and trees shall be included in the unit price bid per LSUM of "SELECTIVE CLEARING".

#### (12) MECHANICAL SPLICES; (BRIDGES A, B, C & D)

Mechanical Splices shall be used to connect the transverse reinforcing steel in the Phased Construction as specified or as shown in the plans. The Mechanical Splices shall be Erico Lenton or an approved equal. The Mechanical Splices shall satisfy the requirements of Section 511.04 C of the Standard Specifications and shall be installed in accordance with the manufacturer's specifications. All cost of installing the Mechanical Splices including the cost of materials, labor, equipment and incidentals shall be included in the unit price bid per Each of "MECHANICAL SPLICES". The lengths of reinforcing steel bars with Mechanical Splices shown in the Phase I construction bar lists include the length of the Mechanical Splice. The lengths of reinforcing steel bars to be engaged into Mechanical Splices shown in the Phase II construction bar lists do not include any additional length for engagement into the Mechanical Splices. The actual Mechanical Splice engagement lengths shall be determined by the Mechanical Splice manufacturer, and the lengths of the reinforcing steel bars to be engaged into Mechanical Splices shall be adjusted accordingly. The cost to adjust the length of any reinforcing steel shown in the plans to accomodate the Mechanical Splices will not be measured for payment and shall be included in the unit price bid per Each of "MECHANICAL SPLICES".

#### (13) NEW APPROACH SLAB (WEST END BRIDGE 'C')

The pay item "APPROACH SLAB" shall include the removal and disposal of existing pavement, guardrail and argument installing new Approach Slab as specified or shown in the plans or as

guardrain and a fain and installing new Approach side as specified or shown in the plans or as directed by the Engineer. All costs necessary to complete the work as specified or as shown in the plans including the cost of sawing, cutting, demolition, cleaning & straightening reinforcing steel, mechanical splices, containment and removal of debris, materials, labor, equipment and incidentals shall be included in the price bid per S.Y. of "APPROACH SLAB".

#### (14) NEW SLOPE DRAIN AT END OF BRIDGE (WEST END BRIDGE 'C')

The pay item "CLASS C CONCRETE" is for installing new Drain at End of Bridge as specified or shown in the plans or as directed by the Engineer. The Slope Drain is to be located at the west end of the new Approach Slab. The slope drain length is estimated at 100 ft. All costs necessary to complete the work as specified or as shown in the plans including the cost of materials, labor, equipment and incidentals shall be included in the price bid per C.Y. of "CLASS C CONCRETE".

#### ENVIRONMENTAL MITIGATION NOTES

MIGRATORY BIRD TREATY ACT:

Cliff Swallows and Barn Swallows are small colonial nesting birds protected by the federal Migratory Bird Treaty Act. These species commonly use bridges and culverts for nesting. The nesting season for the swallows runs from April 1 to August 31. Swallow use of all the bridges within the project has been observed during the initial surveys conducted as part of the biological studies in 2015. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. The Resident Engineer will evaluate the contractor's proposed work methods and conclude whether the proposed work will harm the nesting birds before work near the structure is authorized. If the proposed work will harm the 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.

| 4(04) | PAY QUANTITIES TULSA COUNTY                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
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| BRIDG | E 'A' NBI NO. 22107                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | US 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OVER AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | KANSAS RIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| М     | DESCRIPTION                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 0181  | SELECTIVE CLEARING                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LSUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 6390  | RAPID CURE JOINT SEALANT                                                                               | BR-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L.F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 590.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 1323  | PAINTING EXISTING STRUCTURES                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LSUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 6303  | COLLECTION AND HANDLING OF WASTE                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LSUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 6019  | CLASS B BRIDGE DECK REPAIR                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 6210  | PNEUMATICALLY PLACED MORTAR                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 6570  | DECK AREA SEALED (FLOODCOATS)                                                                          | BR-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12,075.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 4515  | (PL) REPAIR BRIDGE ITEM (TYPE A)                                                                       | BR-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 4535  | (PL) REPAIR BRIDGE ITEM (TYPE C)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 135.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 4545  | (PL) REPAIR BRIDGE ITEM (TYPE D)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 4815  | (PL) REPLACE BRIDGE ITEM (TYPE A)                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|       | 4(04)<br>BRIDG<br>0181<br>6390<br>1323<br>6303<br>6019<br>6210<br>6570<br>4515<br>4535<br>4545<br>4815 | Autor         PAY QUANTITIES           BRIDGE VA' NBI NO. 22107         DESCRIPTION           M         DESCRIPTION           0181         SELECTIVE CLEARING           0181         SELECTIVE CLEARING           0390         RAPID CURE JOINT SEALANT           1323         PAINTING EXISTING STRUCTURES           6303         COLLECTION AND HANDLING OF WASTE           6109         CLASS B BRIDGE DECK REPAIR           6109         CLASS B BRIDGE DECK REPAIR           6109         DECK AREA SEALED (FLOODCOATS)           6101         DECK AREA SEALED (FLOODCOATS)           6102         PUNEMATICALLY PLACED MORTAR           6103         DECK AREA SEALED (FLOODCOATS)           6104         PUNEPAIR BRIDGE ITEM (TYPE A)           6105         PUN REPAIR BRIDGE ITEM (TYPE C)           6106         PUN REPAIR BRIDGE ITEM (TYPE D)           6107         PUNEPAACE BRIDGE ITEM (TYPE A) | PAY QUANTITIES         PAY QUANTITIES         BRIDE VA' NBI NO. 22107         M DESCRIPTION         M DESCRIPTION         M DESCRIPTION         0181       SELECTIVE CLEARING         0181       SELECTIVE CLEARING         6300       RAPID CURE JOINT SEALANT       BR-1         1323       PAINTING EXISTING STRUCTURES       BR-1         1323       PAINTING EXISTING STRUCTURES       Image: Colspan="2">Image: Colspan="2"         Image: Colspan="2"       Image: Colspan="2"       Image: Colspan="2"         6101       Image: Colspan="2"       Image: Colspan="2"       Image: Colspan="2"       Image: Colspan="2"       Im | PAY QUANTITIES         BRIDE VINDINO. 22107       US 64         M       DESCRIPTION         0181       SELECTIVE CLEARING       (11)         6390       RAPID CURE JOINT SEALANT       BR-1       (2)         1323       PAINTING EXISTING STRUCTURES       (8)         6303       COLLECTION AND HANDLING OF WASTE       (8)         6109       CLASS B BRIDGE DECK REPAIR       (6)         6210       PNEUMATICALLY PLACED MORTAR       (4)         6570       DECK AREA SEALED (FLOODCOATS)       BR-1       (7)         4515       (PL) REPAIR BRIDGE ITEM (TYPE A)       (3)         4545       (PL) REPAIR BRIDGE ITEM (TYPE D)       (5)         4815       (PL) REPAIRE BRIDGE ITEM (TYPE A)       (9) | PAY QUANTITIES         PAY QUANTITIES         BRIDGE VA' NBI NO. 22107       US 64 VER AR         M       DESCRIPTION       UNIT         0181       SELECTIVE CLEARING       (11)       LSUM         0390       RAPID CURE JOINT SEALANT       BR-1       (2)       L.F.         1323       PAINTING EXISTING STRUCTURES       (8)       LSUM         6303       COLLECTION AND HANDLING OF WASTE       (8)       LSUM         6109       CLASS B BRIDGE DECK REPAIR       (6)       S.Y.         6210       PNEUMATICALLY PLACED MORTAR       (4)       S.Y.         6370       DECK AREA SEALED (FLOODCOATS)       BR-1       (7)       S.Y.         6351       (PL) REPAIR BRIDGE ITEM (TYPE A)       BR-1       (1)       EA.         4535       (PL) REPAIR BRIDGE ITEM (TYPE C)       (3)       EA.         4545       (PL) REPLACE BRIDGE ITEM (TYPE A)       (9)       EA. |  |

| JP 3194                                                             | P 31944(04) TULSA COUNT<br>PAY QUANTITIES |                                  |                      |      |      | ULSA COUNTY |
|---------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------------|------|------|-------------|
| US 64 OVER ARKANSAS<br>0201 BRIDGE 'B' NBI NO. 22093 RIVER OVERFLOW |                                           |                                  |                      |      |      |             |
| ITE                                                                 | M                                         | DESCRIPTION                      | DESCRIPTION UNIT QUA |      |      | QUANTITY    |
| 201                                                                 | 0181                                      | SELECTIVE CLEARING               |                      | (11) | LSUM | 1.00        |
| 504(G)                                                              | 6390                                      | RAPID CURE JOINT SEALANT         | BR-1                 | (2)  | L.F. | 295.00      |
| 513(B)                                                              | 6019                                      | CLASS B BRIDGE DECK REPAIR       |                      | (6)  | S.Y. | 30.00       |
| 521(A)                                                              | 6210                                      | PNEUMATICALLY PLACED MORTAR      |                      | (4)  | S.Y. | 100.00      |
| 523(C)                                                              | 6570                                      | DECK AREA SEALED (FLOODCOATS)    | BR-1                 | (7)  | S.Y. | 4,495.00    |
| 540                                                                 | 4515                                      | (PL) REPAIR BRIDGE ITEM (TYPE A) | BR-1                 | (1)  | EA.  | 4.00        |
| 540                                                                 | 4535                                      | (PL) REPAIR BRIDGE ITEM (TYPE C) |                      | (3)  | EA.  | 50.00       |

| JP 31944(04) |         |              | PAY QUANTITIES | TULSA COUNTY |          |  |
|--------------|---------|--------------|----------------|--------------|----------|--|
| 0640         | CONSTRU | JCTION       |                |              |          |  |
| LI I         | ГЕМ     |              | DESCRIPTION    | UNIT         | QUANTITY |  |
| 641          | 1399    | MOBILIZATION |                | LSUM         | 1.00     |  |

Payment for this item will be based on the plan quantity only. See Section 109.01(b) of the Standard Specifications. BR-1:

|                                                                         |                  |                                  | s    |      | Т                          | ULSA COUNTY |
|-------------------------------------------------------------------------|------------------|----------------------------------|------|------|----------------------------|-------------|
| 1-44 EB OVER ARKAN<br>0203 BRIDGE 'D' NBI NO. 20326 RIVER AND EL WOOD / |                  |                                  |      |      | ER ARKANSAS<br>ELWOOD AVE. |             |
| ITE                                                                     | ITEM DESCRIPTION |                                  |      | UNIT | QUANTITY                   |             |
| 512(A)                                                                  | 1323             | PAINTING EXISTING STRUCTURES     |      | (10) | LSUM                       | 1.00        |
| 512(B)                                                                  | 6303             | COLLECTION AND HANDLING OF WASTE |      | (10) | LSUM                       | 1.00        |
| 513(B)                                                                  | 6019             | CLASS B BRIDGE DECK REPAIR       |      | (6)  | S.Y.                       | 20.00       |
| 521(A)                                                                  | 6210             | PNEUMATICALLY PLACED MORTAR      |      | (4)  | S.Y.                       | 100.00      |
| 523(C)                                                                  | 6570             | DECK AREA SEALED (FLOODCOATS)    | BR-1 | (7)  | S.Y.                       | 4,495.00    |
| 540                                                                     | 4525             | (PL) REPAIR BRIDGE ITEM (TYPE B) | BR-1 | (1)  | EA.                        | 6.00        |
| 540                                                                     | 4535             | (PL) REPAIR BRIDGE ITEM (TYPE C) |      | (3)  | EA.                        | 24.00       |
|                                                                         |                  |                                  |      |      |                            |             |

#### PAY QUANTITIES

JP 31944(04)

### 1-44 WB OVER ARKANSAS RIVER AND ELWOOD AVE

TULSA COUNTY

| 0202   | 0202 BRIDGE 'C' NBI NO. 20580 RIVER AND EL WOOD AVE. |                                  |      |      |      |           |
|--------|------------------------------------------------------|----------------------------------|------|------|------|-----------|
| ITE    | Μ                                                    | DESCRIPTION                      |      |      | UNIT | QUANTITY  |
| 504(A) | 1304                                                 | APPROACH SLAB                    | BR-1 | (13) | S.Y. | 212.50    |
| 504(B) | 1305                                                 | SAW CUT GROOVING                 | BR-1 |      | S.Y. | 202.00    |
| 504(E) | 6190                                                 | 42" F-SHAPED PARAPET             | BR-1 |      | L.F. | 50.00     |
| 509(D) | 1331                                                 | CLASS C CONCRETE                 |      | (14) | C.Y. | 10.00     |
| 512(A) | 1323                                                 | PAINTING EXISTING STRUCTURES     |      | (10) | LSUM | 1.00      |
| 512(B) | 6303                                                 | COLLECTION AND HANDLING OF WASTE |      | (10) | LSUM | 1.00      |
| 513(B) | 6019                                                 | CLASS B BRIDGE DECK REPAIR       |      | (6)  | S.Y. | 20.00     |
| 521(A) | 6210                                                 | PNEUMATICALLY PLACED MORTAR      |      | (4)  | S.Y. | 100.00    |
| 523(C) | 6570                                                 | DECK AREA SEALED (FLOODCOATS)    | BR-1 | (7)  | S.Y. | 14,090.00 |
| 540    | 4525                                                 | (PL) REPAIR BRIDGE ITEM (TYPE B) | BR-1 | (1)  | EA.  | 6.00      |
| 540    | 4535                                                 | (PL) REPAIR BRIDGE ITEM (TYPE C) |      | (3)  | EA.  | 24.00     |

| BRIDGES 'A' - 'D'         |                         | TULSA COUNTY | Design          | N/A       | N/A  |  |
|---------------------------|-------------------------|--------------|-----------------|-----------|------|--|
| JOINT MAINT.              |                         |              | Detail          | RWM       | 6/16 |  |
| GENERAL NOTES AND SUMMARY |                         |              |                 |           | 6/16 |  |
| OF PAY QUANTITIES         |                         |              | Squad: MAYFIELD |           |      |  |
|                           |                         |              | Engr.: E        | LYAZG     |      |  |
| STATE OF                  | DEPARTMENT              | OF TRANSF    | POR             | TAT       | ION  |  |
| OKLAHOMA                  | JOB PIECE NO. 31944(04) |              |                 | SHEET NO. | AB02 |  |

#### GENERAL CONSTRUCTION NOTES

ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER UNTIL SUCH A TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, SIGNING, AND DEVICES WITHIN THE LIMITS OF CONSTRUCTION AND DETOUR ROUTE(S), ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION", AND AS SHOWN ON TCS STANDARD DRAWINGS.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES."

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, ATTENUATORS, SLOPES, OR SIGNS SHALL BE REPLACED OR REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

THE ITEMS TO BE REMOVED AND/OR RESET SHALL BE HANDLED WITH CARE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING THESE OPERATIONS.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE AREAS UNDER THE BRIDGES FROM FALLING DEBRIS AND BE SOLELY RESPONSIBLE FOR SAFEGUARDING THESE AREAS.

THE CONTRACTOR MUST NOTIFY THE RESIDENT ENGINEER 7 DAYS PRIOR TO ANY LANE CLOSURE.

THE CONTRACTOR SHALL PROVIDE A PERSON TO BE ON CALL AS NEEDED AS DETERMINED BY THE ENGINEER. THIS PERSON SHALL HOLD A CURRENT CERTIFICATION FROM THE AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA) OR THE OKLAHOMA TRAFFIC ENGINEERING ASSOCIATION (OTEA) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.

REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING TRAFFIC ON CROSS STREETS. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. SEE O.D.O.T. STANDARDS AND DETAIL DRAWINGS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ALL REGULATORY SIGNS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) FOR TYPE III SHEETING.

ALL WARNING SIGNS SHALL HAVE FLUORESCENT YELLOW SHEETING. THE FLUORESCENT YELLOW SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) REQUIREMENTS FOR TYPE VIII SHEETING.

THE MANUFACTURER SHALL FURNISH A TYPE 'A' CERTIFICATION IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS, LATEST EDITION, SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON THE MATERIAL SUBMITTED FOR APPROVAL.

#### SPECIAL PAY QUANTITY NOTES

- (SP-1) TYPE 'C' WARNING LIGHTS ARE NOT REQUIRED.
- CHANGEABLE MESSAGE SIGNS TO BE PLACED ON THE PROJECT 14 DAYS IN ADVANCE OF THE START DATE. (SP-2)
- (SP-3) PRICE BID TO INCLUDE ALL DELINEATORS FOR TEMPORARY IN-PLACE BARRIER WALL IN ACCORDANCE WITH TRAFFIC STANDARD TCS24-1(LATEST REVISION).
- REMOVE THE EXISTING TRAFFIC STRIPES ON THE BRIDGES AND APPROACHES PRIOR TO FLOODCOATING. THE NEW TRAFFIC STRIPES FOR BRIDGES AND APPROACHES SHALL BE APPLIED AFTER FLOODCOATING. ALL COSTS OF REMOVING TRAFFIC STRIPES, EQUIPMENT, MATERIAL, AND INCIDENTALS INCESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE (SP-4) PRICE BID PER L.F. "TRAFFIC STRIPE(MULTI-POLY.)(4"WIDE).
- (SP-5) QUANTITY SHOWN INCLUDED 24,100 LF TRQFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 20,700 LF TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND 700 LF TRAFFIC STRIPE (MULTI-POLYMER)(BLACK) AND WILL ALL BE MEASURED BY THE LINEAR FOOT OF FOOR (4') WIDE TRAFFIC STRIPE.

#### PAY QUANTITY NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PRECAST CONCRETE MEDIAN (TC-1) BARRIE
- QUANTITY INCLUDES SUFFICIENT LENGTH OF MEDIAN BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON (TC-2) OTHER DETOUR PHASES.
- ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VIOF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS, PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSCOULENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE (TC-26) PROJECT.

ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.

- INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS (TC-30) WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST (TC-33) REVISION) THE MANUFACTURER SHALL FURNISH A TYPE 'D' CERITFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR

- ANY USED PORTABLE CHANGEABLE MESSAGE SIGN, OR CONSTRUCTION ZONE IMPACT ATTENUATOR TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT. (TC-52)
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER
- TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING. (TC-75)
- INCLUDED IN THIS ITEM SHALL BE ONE (1) ADDITIONAL UNIT TO BE USED AS A STAND BY OR REPLACEMENT. THIS STAND BY UNIT SHALL BE IMMEDIATELY ACCESSIBLE TO REPLACE A DAMAGED, STOLEN OR MALFUNCTIONING UNIT. THE AMOUNT OF TIME BETWEEN THE REMOVAL OF THE DAMAGED UNIT AND THE INSTALLATION OF THE STAND BY UNIT SHALL BE NO MORE THAN TWENTY FOUR (24) HOURS. (TC-80)
- 90 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT ODOT STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING (TC-84) CONSTRUCTION
- THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS, FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: http://www.okladot.state.ok.us/traffic/qpl/index.php (TC-85)

| PAY QUANTITY SCHEDULE |                       |                                             |                     |      |           |  |  |  |  |
|-----------------------|-----------------------|---------------------------------------------|---------------------|------|-----------|--|--|--|--|
| 0300 TR/              | 300 TRAFFIC CONTROL   |                                             |                     |      |           |  |  |  |  |
| ITEM<br>NO.           | CODE<br>NO.           | DESCRIPTION                                 |                     | UNIT | QUANTITY  |  |  |  |  |
| 871(B)                | 8705                  | (SP)CONST. ZONE IMPACT ATTEN.               | (TC-52,70,80)       | SD   | 40.00     |  |  |  |  |
| 877(B)                | 8484                  | DELIVER PORTABLE LONGITUDINAL BARRIER       | (SP-3)(TC-1,2)      | LF   | 6,112.50  |  |  |  |  |
| 877(C)                | 8486                  | RELOCATION OF PORTABLE LONGITUDINAL BARRIER | (SP-3)(TC-1,2)      | LF   | 18,337.50 |  |  |  |  |
| 880(A)                | 8812                  | ARROW DISPLAY (TYPE C)                      | (TC-84)             | SD   | 270.00    |  |  |  |  |
| 880(B)                | 8818                  | CONSTRUCTION SIGNS 0 TO 6.25 SF             | (TC-26,33,84)       | SD   | 4,500.00  |  |  |  |  |
| 880(B)                | 8821                  | CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF      | (TC-26,33,84)       | SD   | 3,600.00  |  |  |  |  |
| 880(B)                | 8824                  | CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF      | (TC-26,30,33,84)    | SD   | 6,300.00  |  |  |  |  |
| (C)088                | 8842                  | CONSTRUCTION BARRICADES(TYPE III)           | (TC-26,84)          | SD   | 3,780.00  |  |  |  |  |
| 880(C)                | 8848                  | WING BARRICADES                             | (TC-26,84)          | SD   | 720.00    |  |  |  |  |
| 880(E)                | 8860                  | WARNING LIGHTS(TYPE A)                      | (TC-26,84)          | SD   | 10,080.00 |  |  |  |  |
| 880(F)                | 8878                  | DRUMS                                       | (SP-1)(TC-26,84)    | SD   | 6,300.00  |  |  |  |  |
| 880(G)                | 8890                  | CHANNELIZER CONES                           | (TC-26,84)          | SD   | 7,650.00  |  |  |  |  |
| 882(A)                | 8306                  | PORTABLE CHANGEABLE MESSAGE SIGN            | (SP-2)(TC-52,84,85) | SD   | 416.00    |  |  |  |  |
| 0301 TRA              | PAY QUANTITY SCHEDULE |                                             |                     |      |           |  |  |  |  |
| ITEM<br>NO.           | CODE<br>NO.           | DESCRIPTION                                 |                     | UNIT | QUANTITY  |  |  |  |  |

| 0301 TRAF | FFIC SIGNING | 3 & STRIPING |
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|                       | PAY QUANTITY SCHEDULE |                                             |                     |      |           |  |  |  |
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| 0300 TR               | AFFIC CO              | NTROL                                       |                     |      | _         |  |  |  |
| ITEM<br>NO.           | CODE<br>NO.           | DESCRIPTION                                 |                     | UNIT | QUANTITY  |  |  |  |
| 871(B)                | 8705                  | (SP)CONST. ZONE IMPACT ATTEN.               | (TC-52,70,80)       | SD   | 40.00     |  |  |  |
| 877(B)                | 8484                  | DELIVER PORTABLE LONGITUDINAL BARRIER       | (SP-3)(TC-1,2)      | LF   | 6,112.50  |  |  |  |
| 877(C)                | 8486                  | RELOCATION OF PORTABLE LONGITUDINAL BARRIER | (SP-3)(TC-1,2)      | LF   | 18,337.50 |  |  |  |
| 880(A)                | 8812                  | ARROW DISPLAY (TYPE C)                      | (TC-84)             | SD   | 270.00    |  |  |  |
| 880(B)                | 8818                  | CONSTRUCTION SIGNS 0 TO 6.25 SF             | (TC-26,33,84)       | SD   | 4,500.00  |  |  |  |
| 880(B)                | 8821                  | CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF      | (TC-26,33,84)       | SD   | 3,600.00  |  |  |  |
| 880(B)                | 8824                  | CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF      | (TC-26,30,33,84)    | SD   | 6,300.00  |  |  |  |
| 880(C)                | 8842                  | CONSTRUCTION BARRICADES(TYPE III)           | (TC-26,84)          | SD   | 3,780.00  |  |  |  |
| 880(C)                | 8848                  | WING BARRICADES                             | (TC-26,84)          | SD   | 720.00    |  |  |  |
| 880(E)                | 8860                  | WARNING LIGHTS(TYPE A)                      | (TC-26,84)          | SD   | 10,080.00 |  |  |  |
| 880(F)                | 8878                  | DRUMS                                       | (SP-1)(TC-26,84)    | SD   | 6,300.00  |  |  |  |
| 880(G)                | 8890                  | CHANNELIZER CONES                           | (TC-26,84)          | SD   | 7,650.00  |  |  |  |
| 882(A)                | 8306                  | PORTABLE CHANGEABLE MESSAGE SIGN            | (SP-2)(TC-52,84,85) | SD   | 416.00    |  |  |  |
| PAY QUANTITY SCHEDULE |                       |                                             |                     |      |           |  |  |  |
|                       |                       |                                             |                     |      |           |  |  |  |
| ITEM<br>NO.           | CODE<br>NO.           | DESCRIPTION                                 |                     | UNIT | QUANTITY  |  |  |  |
| 856(A)                | 8530                  | TRAFFIC STRIPE (MULTI-POLY.) (4" WIDE)      | (SP-4,5)            | LF   | 45,500.00 |  |  |  |

## SPECIAL CONSTRUCTION SIGN









PLAN



TYPICAL CROSS SECTION









|   | REV. NO. | DATE |
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|  | GENERAL PLAN AND TYPICAL |                        | Detail    | DjG                   | 05/16           |         |
|--|--------------------------|------------------------|-----------|-----------------------|-----------------|---------|
|  |                          |                        | Check     | KMS                   | 07/16           |         |
|  | SECTION BRIDGE B         |                        |           | Squad: M<br>Engr.: El | AYFIEL<br>_YAZG | _D<br>I |
|  | STATE OF                 | DEPARTMENT             | OF TRANSF | POR                   | ΓΑΤ             | ION     |
|  | OKLAHOMA                 | JOBPIECE NO. 31944(04) |           |                       | SHEET NO.       | B003    |



|    |              | REVISIONS |
|----|--------------|-----------|
| 10 | DECODIDITION |           |

| BRIDGE 'A' & 'B' TULSA COUNTY Design N/A    | N/A             |  |  |
|---------------------------------------------|-----------------|--|--|
| Detail RWM C                                | 05/16           |  |  |
|                                             | 07/16           |  |  |
| Squad: MAYFIELD                             | Squad: MAYFIELD |  |  |
| Engr.: ELYAZGI                              |                 |  |  |
| STATE OF DEPARTMENT OF TRANSPORTATION       | NC              |  |  |
| OKLAHOMA JOBPIECE NO. 31944(04) SHEET NO. E | 3004            |  |  |



| BRIDGE 'C'                      |                                      | TULSA COUNTY | Design          | N/A       | N/A   |
|---------------------------------|--------------------------------------|--------------|-----------------|-----------|-------|
| 1-44 WB OVER ARK.F              | I-44 WB OVER ARK.RIVER & ELWOOD AVE. |              |                 | ADG       | 06/16 |
| GENERA                          | L PLAN AND TYI                       | PICAL        | Check           | KMS       | 07/16 |
| SECTION BRIDGE C (SHEET 1 OF 2) |                                      |              | Squad: MAYFIELD |           |       |
|                                 |                                      |              | Engr.: E        | LYAZG     | I     |
| STATE OF                        | DEPARTMENT                           | OF TRANSF    | POR             | ΤΑΤ       | ION   |
| OKLAHOMA                        | JOB PIECE NO. 31944(04)              |              |                 | SHEET NO. | B005  |





TYPICAL CROSS SECTION

|    |             | REVISIONS |
|----|-------------|-----------|
| NO | DESCRIPTION |           |



REMOVE ALL TRAFFIC MARKERS AND APPLY CLASS "A" REPAIR. BRIDGE 'D' I-44 EB OVER ARK, RIVER & ELWOOD AVE. TULSA COUNTY Design N/A N/A Detail ADG 05/16 GENERAL PLAN AND TYPICAL Check KMS 07/16 SECTION BRIDGE D (SHEET 1 OF 2) Sauad MAYFIELD ingr.: ELYAZGI STATE OF DEPARTMENT OF TRANSPORTATION OKLAHOMA JOBPECENO. 31944(04) SHEETNO. BOO7





PLAN





PHASE 1 PIERS 4 - 16



PHASE 1 PIER 20



PHASE 2 PIERS 4 - 16



PHASE 2 PIER 20

|                                    | REVISIONS               |       |
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| BRIDGE 'C'                         | TULSA COUNTY Design N/A | N/A   |
| I-44 WB OVER ARK. RIVER & ELWOOD A | VE. Detail ADG          | 06/16 |
| BRIDGE C PHASI                     | NG Check KMS            | 07/16 |
|                                    | Squad: MAYFIEL          | D     |
|                                    |                         |       |
|                                    | VI OF TRANSPORTAT       |       |
|                                    | ) SHEET NO.             | R008  |



| BRIDGE 'D'         |                         | TULSA COUNTY | Design    | N/A       | N/A   |
|--------------------|-------------------------|--------------|-----------|-----------|-------|
| I-44 EB OVER ARK.R | IVER & ELWOOD AVE.      |              | Detail    | ADG       | 06/16 |
| BRIDGE D PHASING   |                         | Check        | KMS       | 07/16     |       |
|                    |                         |              | Squad: M  | AYFIEL    | D     |
|                    |                         |              | Engr.: El | YAZG      | 1     |
| STATE OF           | DEPARTMENT              | OF TRANSF    | POR       | ΓΑΤ       | ION   |
| OKLAHOMA           | JOB PIECE NO. 31944(04) |              |           | SHEET NO. | B010  |



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|    | BAR LIST<br>(ONE EXP. JOINT)<br>EPOXY COATED |     |      |      |         |  |
|----|----------------------------------------------|-----|------|------|---------|--|
|    | MARK                                         | NO. | SIZE | FORM | LENGTH  |  |
| A  | D1                                           | 12  | #6   | STR. | 29'-4"  |  |
| B  | D1                                           | 12  | #6   | STR. | 29'-4"  |  |
| Ă  | EP                                           | 6   | #5   | BNT. | 5'-5"   |  |
| B) | EP                                           | 6   | #5   | BNT. | 5'-5"   |  |
| à  | F1                                           | 8   | #8   | BNT. | 8'-8"   |  |
| B  | F1                                           | 6   | #8   | BNT. | 8'-8"   |  |
| à  | F2                                           | 8   | #4   | STR. | 5'-6"   |  |
| B  | F2                                           | 6   | #4   | STR. | 5'-6"   |  |
| Ă  | F3                                           | 1   | #4   | STR. | 26'-11" |  |
| B) | F3                                           | 1   | #4   | STR. | 26'-11" |  |
| à  | F4                                           | 1   | #8   | STR. | 26'-7"  |  |
| B  | F4                                           | 1   | #8   | STR. | 26'-7"  |  |
| à  | PR                                           | 6   | #5   | BNT. | 5'-0"   |  |
| B) | PR                                           | 6   | #5   | BNT. | 5'-0"   |  |
| Ã  | U1                                           | 64  | #4   | BNT. | 3'-3"   |  |
| B  | U1                                           | 62  | #4   | BNT. | 3'-3"   |  |
|    |                                              |     |      |      |         |  |

| QUANTITIES<br>(ONE EXPANSION JOINT) |      |          |  |  |  |  |
|-------------------------------------|------|----------|--|--|--|--|
| ITEM                                | UNIT | TOTAL    |  |  |  |  |
| SEALED EXPANSION JOINT              | L.F. | 60.00    |  |  |  |  |
| MECHANICAL SPLICES                  | EA.  | 14.00    |  |  |  |  |
| STRUCTURAL STEEL                    | LB.  | 98.00    |  |  |  |  |
| CLASS AA CONCRETE                   | C.Y. | 11.60    |  |  |  |  |
| EPOXY COATED REINFORCING STEEL      | LB.  | 2,020.00 |  |  |  |  |
| SEALER CRACK PREPARATION            | L.F. | 112.00   |  |  |  |  |
| SEALER RESIN                        | GAL. | 1.00     |  |  |  |  |



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| _             | APPLY RAPID CURE JOINT           |            |          |       |
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| R BRIDGE I    | TEM (TYPE D)                     |            |          |       |
| BRIDGE A      | 'ONLY)                           |            |          |       |
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| ĺ             | BRIDGE A & B TULSA COUNTY        | Design     | N/A      | N/A   |
|               |                                  | Detail     | DjG      | 05/16 |
|               | DETAILS OF REPAIR                | Check      | KMS      | 06/16 |
|               | (BRIDGE A & B)                   | Squad: M.A | YFIEL    | D     |
|               |                                  | Engr.: EL  | YAZGI    |       |
|               | STATE OF DEPARTMENT OF TRANSF    | ORT        | AT       | ION   |
|               | OKLAHOMA JOB PIECE NO. 31944(04) | \$         | HEET NO. | B012  |



| BRIDGE 'C' & 'D' TULSA (<br>I-44 OVER ARK. RIVER & ELWOOD AVE. |                                           | TULSA COUNTY | Design | N/A       | N/A   |
|----------------------------------------------------------------|-------------------------------------------|--------------|--------|-----------|-------|
|                                                                |                                           |              | Detail | ADG       | 06/16 |
|                                                                | DETAILS OF JOINT REPAIR<br>(BRIDGE C & D) |              | Check  | KMS       | 07/16 |
|                                                                |                                           |              | Squad  |           |       |
|                                                                |                                           |              | Engr.: |           |       |
|                                                                | STATE OF DEPARTMEN                        | T OF TRANSF  | POR    | ΤΑΤ       | ION   |
|                                                                | OKLAHOMA JOBPIECE NO. 31944(04)           |              |        | SHEET NO. | B013  |









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| STATE OF | DEPA          | RTMENT    | OF TRANSF | PORTAT    | ION  |
| OKLAHOMA | JOB PIECE NO. | 31944(04) |           | SHEET NO. | B015 |



|    |              | REVISIONS |
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| 10 | DECODIDITION |           |

| BRIDGE 'C' TULSA COUNTY<br>I-44 WB OVER ARK. RIVER & ELWOOD AVE.<br>DRAIN AT END OF BRIDGE<br>(BRIDGE C) |                         | Design          | N/A       | N/A       |      |
|----------------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------|-----------|------|
|                                                                                                          |                         | Detail          | ADG       | 06/16     |      |
|                                                                                                          |                         | Check           | KMS       | 07/16     |      |
|                                                                                                          |                         | Squad: MAYFIELD |           |           |      |
|                                                                                                          |                         |                 | Engr.: El | YAZG      |      |
| STATE OF                                                                                                 | DEPARTMENT              | OF TRANSF       | 'OR       | ΓΑΤ       | ION  |
| IOKLAHOMA                                                                                                | JOB PIECE NO. 31944(04) |                 |           | SHEET NO. | B016 |



MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

## NOTE 2

MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS; IT SHALL NOT EXCEED 50 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS. A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THRU THIS AREA.

NOTE 4 A SUFFICIENT NUMBER OF TYPE III BARRICADES, WITH SIGNS AS SHOWN, SHALL BE USED TO COMPLETELY CLOSE THE ROADWAY TO TRAFFIC FROM THE EDGE OF PAVEMENT TO THE EDGE OF PAVEMENT.

FOR INFORMATION REGARDING THE LENGTHS OF TAPERS, TANGENTS, AND CROSSOVERS, AS WELL AS THE SPACING OF CHANNELIZING DEVICES, SEE STANDARD DRAWING TCS2-1-(LATEST REVISION).

• CHANNELIZER CONE  $\square$ WORK AREA ARROW DISPLAY TYPE III BARRICADE PORT. LONG. BARRIER

DRUM





MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

#### NOTE 2

MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS; IT SHALL NOT EXCEED 50 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

|                                                                                                                                                    | KEY:     |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|
| MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL<br>E PLACED THRU THIS AREA.                                                                         | <u> </u> | SIGN                |
|                                                                                                                                                    | •        | DRUM                |
| IGNS AS SHOWN, SHALL BE USED TO COMPLETELY<br>LOSE THE ROADWAY TO TRAFFIC FROM THE EDGE OF                                                         |          | CHANNELIZER CONE    |
| AVEMENT TO THE EDGE OF PAVEMENT.                                                                                                                   |          | WORK AREA           |
| OR INFORMATION REGARDING THE LENGTHS OF TAPERS,<br>ANGENTS, AND CROSSOVERS, AS WELL AS THE SPACING OF<br>HANNELIZING DEVICES, SEE STANDARD DRAWING | -        | ARROW DISPLAY       |
| CS2-1-(LATEST REVISION).                                                                                                                           |          | TYPE III BARRICADE  |
|                                                                                                                                                    |          | PORT. LONG. BARRIER |
|                                                                                                                                                    | DRAWING  | NOT TO SCALE        |





MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS. NOTE 2

MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 50 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS. NOTE 3

## A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL

BE PLACED THROUGH THIS TAPER. NOTE 4

A LONGITUDINAL BUFFER AREA, TO ALLOW WORKERS TIME DOWNSTREAM TAPERS SHALL CONTAIN A MINIMUM OF TO EVACUATE THE WORK AREA, SHOULD BE PROVIDED. FOR GUIDELINES ON SETTING THE LENGTH OF THIS BUFFER, SEE STANDARD DRAWING TCS2-1-(LATEST REVISION) ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND THE JUDGEMENT OF THE ENGINEER. DRAWING TCS2-1-(LATEST REVISION). NOTE 5

TYPE III BARRICADES WITH SIGNS READING "LANE CLOSED" (R11-2) SHALL BE PLACED EVERY 2,000 FEET THROUGH ACTIVITY AREA. THESE TYPE III BARRICADES AND SIGNS MAY BE OMITTED ON MOVING OPERATIONS AND SHORT DURATION PROJECTS.

NOTE 6 CONSTRUCTION SPEED LIMIT TO BE DETERMINED BY THE DIVISION ENGINEER. NOTE 7

FOUR (4) CHANNELIZING DEVICES.

FOR ADDITIONAL INFORMATION ABOUT TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES, SEE STANDARD

DRAWING NOT TO SCALE

|                         | REVISI<br>REV.NO. DESCRIPTION    | ONS DATE            |
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|                         | BRIDGES 'C' & 'D'                |                     |
| IZZI WUKK AREA          |                                  | Drawn RGN 6/16      |
| ARROW DISPLAY           |                                  | Design RGN 6/16     |
| ممم TYPE III BARRICADES | UUTSIDE LANE CLUSURES            | Unecked SEB 6/16    |
| C. Z. IMPACT ATTENUATOR |                                  |                     |
| PORT. LONG. BARRIER     | STATE OF DEPARTMENT OF TRANSP    | SHEET NO. TOO3      |

TULSA COUNTY/



MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS. NOTE 2

MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 50 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS.

#### NOTE 3

A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THROUGH THIS TAPER.

#### NOTE 4

A LONGITUDINAL BUFFER AREA, TO ALLOW WORKERS TIME TO EVACUATE THE WORK AREA, SHOULD BE PROVIDED. FOR GUIDELINES ON SETTING THE LENGTH OF THIS BUFFER, SEE STANDARD DRAWING TCS2–1–(LATEST REVISION). ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND THE JUDGEMENT OF THE ENGINEER.

#### NOTE 5 TYPE III BARRICADES WITH SIGNS READING "LANE CLOSED" (R11-2) SHALL BE PLACED EVERY 2,000 FEET THROUGH ACTIVITY AREA. THESE TYPE III BARRICADES AND SIGNS MAY BE OMITTED ON MOVING OPERATIONS AND SHORT DURATION PROJECTS.

CONSTRUCTION SPEED LIMIT TO BE DETERMINED BY THE DIVISION ENGINEER.

FOR ADDITIONAL INFORMATION ABOUT TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES, SEE STANDARD DRAWING TCS2-1-(LATEST REVISION).

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KEY:

TYPE III BARRICADES ممه

CHANNELIZER CONE

C. Z. IMPACT ATTEN

PORT. LONG. BARRIE

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MULTIPLE COUNTY/



MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS.

NOTE 2 MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 50 FEET FOR TYPE III BARRICADES, VERTICAL PANELS OR DRUMS.

#### NOTE 3

A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THROUGH THIS TAPER.

#### NOTE 4

A LONGITUDINAL BUFFER AREA, TO ALLOW WORKERS TIME TO EVACUATE THE WORK AREA, SHOULD BE PROVIDED. FOR GUIDELINES ON SETTING THE LENGTH OF THIS BUFFER, SEE STANDARD DRAWING TCS2-1-(LATEST REVISION). ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND THE JUDGEMENT OF THE ENGINEER. NOTE 5

(R11-2) SHALL BE PLACED EVERY 2,000 FEET THROUGH ACTIVITY AREA. THESE TYPE III BARRICADES AND SIGNS MAY BE OMITTED ON MOVING OPERATIONS AND SHORT DURATION PROJECTS.

| NOTE 6<br>CONSTRUCTION SPEED LIMIT TO BE DETERMINED BY THE<br>DIVISION ENGINEER.                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|
| NOTE 7<br>DOWNSTREAM TAPERS SHALL CONTAIN A MINIMUM OF<br>FOUR (4) CHANNELIZING DEVICES.                                                 |
| FOR ADDITIONAL INFORMATION ABOUT TAPER LENGTHS<br>AND SPACING OF CHANNELIZING DEVICES, SEE STANDARD<br>DRAWING TCS2–1–(LATEST REVISION). |

CHANNELIZER CONE

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|                                       | PLACE "CLOSED" SIGN ON<br>ALL TYPE III BARRICADES |                         |                           |           |
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| WORK AREA                             |                                                   |                         |                           |           |
| ARROW DISPLAY                         | BRIDGES 'C' & 'D'                                 |                         |                           |           |
| ممم Type III Barricades               |                                                   |                         | Drawn RG                  | N 6/16    |
| CHANNELIZER CONE                      |                                                   |                         | Design RGI<br>Checked SET | N 6/16    |
| C. Z. IMPACT ATTENUATOR               | I-44 WESTBOUN                                     | ND                      | TRAFFIC EN                | GINEERING |
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MULTIPLE COUNTY/



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