



**PUBLIC WORKS**  
Engineering

**DATE:**  
May 4, 2026

**TO:**  
Plan Holders  
Contractors

**FROM:**  
Jenna Richardson  
918-596-9637  
[jennarichardson@cityoftulsa.org](mailto:jennarichardson@cityoftulsa.org)

## EMAIL TRANSMITTAL

ADDENDUM NO. 1

PROJECT NO. 2436B0005Z-189, 190, 219B, 224, 272, 300A & 304  
– BRIDGE REHABILITATIONS FOR BRIDGE # 189, 190, 219B, 224,  
272, 300A & 304

Number of pages: 12

All addenda to the contract documents should be denoted on the  
last page of the Proposal in the space provided.

Thank you,  
Contract Administration



**PUBLIC WORKS**  
Engineering

**DATE:**  
May 4, 2026

**ADDENDUM NO. 1  
TO  
PROJECT NO. 2436B0005Z-189, 190, 219B, 224, 272, 300A & 304 – BRIDGE  
REHABILITATIONS FOR BRIDGE # 189, 190, 219B, 224, 272, 300A & 304**

This Addendum No. 1 consisting of three (3) items and four (4) clarifications, submitted by Benham Design, LLC is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.**

This Addendum No. 1 consists of the following:

1. The attached documents list the detailed items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project.
2. Question: There is no detail for slope wall replacement or location shown.  
Answer: A note is shown in the profile view on Sheet 25 for locations of the slopewall to be replaced.
3. Question: Is barrier wall required for Bridges 224 & 219B? There is a item for Barrier Wall delineator ? There is no item for this.  
Answer: Addendum will be issued to address this concern.
4. Question: On Bridge 300A it mentions not to impede traffic . Since the piers that are to be worked on are in the water this might be impossible and will need to possibly done from top side. Will city consider allowing lane closures on top? And is the pedestrian trail allowed to be closed for construction?  
Answer: It is the intent of the City that traffic on the top side should not be impeded, however the awarded contractor may propose construction traffic control to be evaluated based on construction methods. For the pedestrian trail, a plan will need to be presented to the City for approval of any change to pedestrian flow paths.

1836 x 1838

TUL x USA



**PUBLIC WORKS**  
Engineering

5. Question: Can you add traffic control plans for all locations? They only one that is included is Bridge 272.

Answer: Contractor shall provide proposed Traffic Control plans at each bridge site to the Engineer for approval. Per plans "Traffic Control shall use MUTCD standards with a 25MPH Construction Zone Speed".

**All other provisions of the Plans and Specifications shall remain in full force and effect.**

**CITY OF TULSA**

  
Paul D. Zachary, P.E.  
Deputy Director

HAS/ML/JR/kt

1000 x 1000

TUL \* USA



15 West 6<sup>th</sup> Street, Suite 900  
Tulsa, OK 74119  
918.599.4155 / benham.com

**ADDENDUM NO. 1  
TO  
PROJECT NO. 2436B0005Z  
BRIDGE REHABILITATION  
189, 190, 219B, 224, 272, 300A, and 304**

Date: May 1, 2026

This Addendum No. 1 consists of 3 items submitted by Benham Design, LLC, is hereby made a part of the contract Documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. **All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.**

This Addendum No. 1 consists of the following:

**ITEMS**

1. REMOVE Sheet 4, "PAY ITEMS & NOTES (1 OF 2)" from plan set and REPLACE with revised Sheet 4, "PAY ITEMS & NOTES (1 OF 2)".
2. REMOVE Sheet 5, "PAY ITEMS & NOTES (2 OF 2)" from plan set and REPLACE with revised Sheet 5, "PAY ITEMS & NOTES (2 OF 2)".
3. DELETE the existing Proposal in its entirety and REPLACE with the revised Proposal found at [www.cityoftulsa.org/government/departments/public-works/engineering-services/construction-bids/project no. 2436B0005Z](http://www.cityoftulsa.org/government/departments/public-works/engineering-services/construction-bids/project.no.2436B0005Z). It is the Bidders responsibility to download the revised Proposal onto their existing thumb drive.

All other provisions of the Plans and Specifications shall remain in full force and effect.

Benham Design, LLC

Karen Jones, P.E.  
Sr. Structural Engineer

Appended hereto and part of Addendum No. 1: Proposal; Sheet 4, "PAY ITEMS & NOTES (1 OF 2)"; Sheet 5, "PAY ITEMS & NOTES (2 OF 2)"

**END ADDENDUM**

**ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET  
PROJECT NO. 2436B0005Z**

**Please read the following instructions carefully.**

1. After opening this file re-save it as your company's name.
2. Open the BID FORM Sheet from the tabs below.
3. Input the unit price of the appropriate pay item in the cells highlighted in blue.
4. Review all data input and check calculations to ensure accuracy of Bid.
5. Print 1 hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
6. Complete and sign the "Signature Page" document.
6. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

**AGREEMENT FOR USING ELECTRONIC BID PROPOSAL**

By and Between: Benham, (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for Project No. 2436B0005Z. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ENGINEER has and retains ownership of the electronic media. ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT'S computer hardware or software, and ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. !!! By opening and using this FILE, You AGREE to these TERMS AND CONDITIONS!!!

**PROPOSAL  
BRIDGE REHABILITATION  
CITYWIDE BRIDGES 189, 190, 219B, 224, 272, 300A, AND 304  
PROJECT NO. 2436B0005Z**

TO: HONORABLE MAYOR  
CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents hereto attached and other documents referred to therein: to complete said work within 230, calendar days after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineer as set forth in the Contract.

**Basis of Award**

**THE BID PROPOSAL INCLUDES A ROADWAY AND BRIDGE BASE BID.  
IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE TOTAL BID SHALL BE DETERMINED  
BY THE BRIDGE AND CONSTRUCTION BASE BID.**

**Note:** - Item numbers omitted are not a part of the Contract.

**BID FORM**  
**BRIDGE REHABILITATION**  
**CITYWIDE BRIDGES 189, 190, 219B, 224, 272, 300A, AND 304**  
**PROJECT NO. 2436B0005Z**

ITEM NUMBER	SPEC NO.	DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	TOTAL EACH ITEM
<b>BRIDGE</b>						
1	504(B)	SAW-CUT GROOVING	SY	1,012		\$0.00
1	504(D)	CONCRETE RAIL (TR4)	LF	85		\$0.00
2	504(F)	HANDRAILING	LF	85		\$0.00
3	505(A)	BRIDGE DECK CONCRETE OVERLAY	CY	45		\$0.00
4	505(E)	HYDRODEMOLITION	SY	804		\$0.00
5	506(A)	STRUCTURAL STEEL M270 GRADE 50W	LB	57,790		\$0.00
6	507(A)	STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	18		\$0.00
7	509(A)	CLASS AA CONCRETE	CY	140		\$0.00
8	509(B)	CLASS A CONCRETE	CY	9		\$0.00
9	510( C)	SLOPE WALL (5")	SY	105		\$0.00
10	510(D)	GRAFFITI TREATMENT	SF	1,446		\$0.00
11	511	MECHANICAL SPLICES	EA	290		\$0.00
12	511(B)	EPOXY COATED REINFORCING STEEL	LB	25,890		\$0.00
13	512	CLEANING BRIDGE SURFACES	SY	247		\$0.00
14	512(A)	PAINTING EXISTING STRUCTURES	LSUM	1		\$0.00
15	512(B)	COLLECTION AND HANDLING OF WASTE	SF	7,626		\$0.00
16	513(B)	CLASS C BRIDGE DECK REPAIR	SY	40		\$0.00
17	515(A)	WATER REPELLENT (VISUALLY INSPECTED)	SY	230		\$0.00
18	517	ELASTOMERIC COATING	SF	1,034		\$0.00
19	518(C)	RAPID CURE JOINT SEALANT	LF	72		\$0.00
20	518(D)	ELASTOMERIC MORTAR	CF	4		\$0.00
21	520(A)	PREPARATION OF CRACKS, ABOVE WATER	LF	438		\$0.00
22	520(C)	EPOXY RESIN, ABOVE WATER	GAL	5		\$0.00
23	521(A)	PNEUMATICALLY PLACED MORTAR	SY	42		\$0.00
24	523(A)	SEALER CRACK PREPARATION	LF	299		\$0.00
25	523(B)	SEALER RESIN	GAL	3		\$0.00
26	524(A)	(SP) CARBON FIBER-REINFORCED POLYMER	SF	125		\$0.00
27	535	CORROSION INHIBITOR(SURFACE APPLIED)	SY	98		\$0.00
28	601(A)	TYPE I PLAIN RIPRAP (24")	TON	72		\$0.00
29	601(C)	TYPE I-A FILTER BLANKET	TON	18		\$0.00
30	619(B)	REMOVAL OF BRIDGE ITEMS	LSUM	1		\$0.00
31	623(F)	GUARDRAIL ANCHOR UNIT (TYPE D-BF)	EA	1		\$0.00
32	623(G)	GUARDRAIL END TREATMENT (GET)	EA	1		\$0.00
<b>BRIDGE TOTAL</b>						<b>0</b>

**BID FORM**  
**BRIDGE REHABILITATION**  
**CITYWIDE BRIDGES 189, 190, 219B, 224, 272, 300A, AND 304**  
**PROJECT NO. 2436B0005Z**

ITEM NUMBER	SPEC NO.	DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	TOTAL EACH ITEM
<b>CONSTRUCTION</b>						
33	220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1		\$0.00
34	619(A)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LSUM	1		\$0.00
35	641	MOBILIZATION	LSUM	1		\$0.00
36	642(B)	CONSTRUCTION STAKING LEVEL II	EA	1		\$0.00
37	805(A)	REMOVAL OF TRAFFIC ITEMS	EA	25		\$0.00
38	805(D)	REMOVAL AND RESET SIGN	EA	78		\$0.00
39	855(A)	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	LF	2,510		\$0.00
40	871(B)	CONST. ZONE IMPACT ATTEN.	SD	180		\$0.00
41	877(B)	DELIVER PORTABLE LONGITUDINAL BARRIER	LF	475		\$0.00
41A	877(C)	RELOCATION OF PORT. LONGITUDINAL BARRIER	LF	1,425		\$0.00
42	880(A)	ARROW DISPLAY (TYPE A)	SD	460		\$0.00
43	880(B)	CONSTRUCTION SIGNS 0.00 TO 6.25 SF	SD	3,450		\$0.00
44	880(B)	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	SD	3,450		\$0.00
45	880(C)	BARRICADES (TYPE III)	SD	1,380		\$0.00
46	880(E)	WARNING LIGHTS (TYPE A)	SD	2,760		\$0.00
47	880(E)	WARNING LIGHTS (TYPE C)	SD	6,900		\$0.00
48	880(F)	DRUMS	SD	13,800		\$0.00
49	880(I)	FLAGGER	SD	50		\$0.00
50	882(B)	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN	SD	180		\$0.00
51	COT 202	QUICK SET FLOWABLE FILL	CY	50		\$0.00
52	COT 327	SAFETY FENCE	LF	500		\$0.00
53	COT 334	CONSTRUCTION AS-BUILT	LSUM	1		\$0.00
54	COT 335	CONTRACTOR'S QUALITY CONTROL	LSUM	1		\$0.00
55	COT 608	GROUND SIGN	SF	26		\$0.00
56	COT 608	1-3/4" SIGN POST	LF	260		\$0.00
57	COT 608	2" SIGN POST	LF	78		\$0.00
58	SPECIAL	OWNER'S ALLOWANCE	ALLOW	15,000	\$1.00	\$15,000.00
59	SPECIAL	URBAN RIGHT OF WAY RESTORATION	EA	1		\$0.00
60	SPECIAL	SPECIAL SIGNAGE FOR LOCAL BUSINESS ACCESS (BAS-1)	SD	5,060		\$0.00
<b>CONSTRUCTION TOTAL</b>						<b>\$15,000.00</b>

SUMMARY SHEET  
BRIDGE REHABILITATION  
CITYWIDE BRIDGES 189, 190, 219B, 224, 272, 300A, AND 304  
PROJECT NO. 2436E0005Z

BRIDGE	\$0.00
CONSTRUCTION	\$15,000.00
<b>TOTAL BID (Bridge and Construction Base Bid)</b>	<b>\$15,000.00</b>

SIGNATURE PAGE  
BRIDGE REHABILITATION  
CITYWIDE BRIDGES 189, 190, 219B, 224, 272, 300A, AND 304  
PROJECT NO. 2436B0005Z

TOTAL BID (Bridge and Construction Base Bid) \$15,000.00  
Figures

Enclosed is a ( ) Bidder's Surety Bond, ( ) Certified Check, ( ) Cashier's Check for  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)  
Figures

which the City of Tulsa may retain or recover as liquidated damages in the event that the undersigned fails to enter into contract for the work covered by this proposal., provided the Contract is awarded to the undersigned within thirty (30) days, or within ninety (90) days if Federal funds are utilized, from the date fixed for opening of bids and the undersigned fails to execute said Contract and furnish the required bonds and other requirements as called for in these Contract Documents within thirty (30) days after award of Contract.

Dated at Tulsa, Oklahoma, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Respectfully submitted,

\_\_\_\_\_  
(Complete legal name of company)

\_\_\_\_\_  
(State of Organization)

By: \_\_\_\_\_  
Title: \_\_\_\_\_

ATTEST: \_\_\_\_\_  
Title: Corporate Secretary

(SEAL)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

The undersigned acknowledge receipt of the following Addenda (give number and date of each):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

P:\140\_Civil\140405 COT Pine St. Bridge Rehab\Design\Working\CVL\INFRDGE\Microstation\140405\_COT\_IOT3\_BridgeRehab.dgn

3:35:21 PM

5/1/2026

BRIDGE PAY ITEMS					BRIDGE #189	BRIDGE #190	BRIDGE #219B	BRIDGE #224	BRIDGE #272	BRIDGE #300A	BRIDGE #304	TOTAL
ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1	504(B)	SAW-CUT GROOVING	(301)	SY			645	208	159			1012
1	504(D)	CONCRETE RAIL (TR4)	(101,301)	LF				85				85
2	504(F)	HANDRAILING		LF				85				85
3	505(A)	BRIDGE DECK CONCRETE OVERLAY	(101,301,305)	CY			36		9			45
4	505(E)	HYDRODEMOLITION	(310)	SY			645		159			804
5	506(A)	STRUCTURAL STEEL M270 GRADE 50W	(317)	LB				57790				57790
6	507(A)	STAINLESS STEEL FIXED BEARING ASSEMBLY	(315,316)	EA				18				18
7	509(A)	CLASS AA CONCRETE	(101,314)	CY	1			77		62		140
8	509(B)	CLASS A CONCRETE	(101,301,311)	CY	1	2		1		3		9
9	510(C)	SLOPE WALL (5")		SY				105				105
10	510(D)	GRAFFITI TREATMENT		SF								105
11	511	MECHANICAL SPLICES		EA				1446				1446
12	511(B)	EPOXY COATED REINFORCING STEEL		LB				290				290
13	512	CLEANING BRIDGE SURFACES		SY	22	55		18090		7800		25890
14	512(A)	PAINTING EXISTING STRUCTURES		LSUM		1		23		147		247
15	512(B)	COLLECTION AND HANDLING OF WASTE		SF		7626						7626
16	513(B)	CLASS C BRIDGE DECK REPAIR	(306)	SY			32		8			40
17	515(A)	WATER REPELLENT (VISUALLY INSPECTED)		SY				90		140		230
18	517	ELASTOMERIC COATING		SF				512		522		1034
19	518(C)	RAPID CURE JOINT SEALANT		LF			39		33			72
20	518(D)	ELASTOMERIC MORTAR		CF			4					4
21	520(A)	PREPARATION OF CRACKS, ABOVE WATER	(302,303)	LF	99	95		97		39	108	438
22	520(C)	EPOXY RESIN, ABOVE WATER	(302)	GAL	1	1		1		1	1	5
23	521(A)	PNEUMATICALLY PLACED MORTAR	(307,313)	SY	3	3		2		12		42
24	523(A)	SEALER CRACK PREPARATION	(301)	LF			78	155	66			299
25	523(B)	SEALER RESIN	(301)	GAL			1	1	1			3
26	524(A)	(SP) CARBON FIBER-REINFORCED POLYMER	(312)	SF						125		125
27	535	CORROSION INHIBITOR(SURFACE APPLIED)	(307)	SY	15	15	22	13		21	12	98
28	601(A)	TYPE I PLAIN RIPRAP (24")	(308)	TON	66			6				72
29	601(C)	TYPE I-A FILTER BLANKET	(309)	TON	16			2				18
30	619(B)	REMOVAL OF BRIDGE ITEMS	(102,304)	LSUM				1				1
31	623(F)	GUARDRAIL ANCHOR UNIT (TYPE D-BF)		EA			1					1
32	623(G)	GUARDRAIL END TREATMENT (GET)		EA		1						1

CONSTRUCTION PAY ITEMS					
ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
33	220	SWPPP DOCUMENTATION AND MANAGEMENT	(111,112,113)	LSUM	1
34	619(A)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(103, 115)	LSUM	1
35	641	MOBILIZATION	(105,108,109)	LSUM	1
36	642(B)	CONSTRUCTION STAKING LEVEL II	(106,107)	EA	1
37	805(A)	REMOVAL OF TRAFFIC ITEMS	(T-1)(103)	EA	25
38	805(D)	REMOVAL AND RESET SIGN		EA	78
39	855(A)	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	(T-3)	LF	2,510
40	871(B)	CONST. ZONE IMPACT ATTN.		SD	180
41	877(B)	DELIVER PORTABLE LONGITUDINAL BARRIER	(205)	LF	475
41A	877(C)	RELOCATION OF PORT. LONGITUDINAL BARRIER	(205)	LF	1,425
42	880(A)	ARROW DISPLAY (TYPE A)	(T-4)(201)	SD	460
43	880(B)	CONSTRUCTION SIGNS 0.00 TO 6.25 SF	(T-2, 4, 5) (201, 202)	SD	3,450
44	880(B)	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	(T-2, 4, 5) (201, 202)	SD	3,450
45	880(C)	BARRICADES (TYPE III)	(T-2, 4, 5) (201)	SD	1,380
46	880(E)	WARNING LIGHTS (TYPE A)	(T-4, 5) (201)	SD	2,760
47	880(E)	WARNING LIGHTS (TYPE C)	(T-4, 5) (201)	SD	6,900
48	880(F)	DRUMS	(T-2, 4, 5) (201)	SD	13,800
49	880(I)	FLAGGER	(T-6)	SD	50
50	882(B)	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN	(T-4) (201)	SD	180
51	COT 202	QUICK SET FLOWABLE FILL	(104)	CY	50
52	COT 327	SAFETY FENCE	(203)	LF	500
53	COT 334	CONSTRUCTION AS-BUILT		LSUM	1
54	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1
55	COT 608	GROUND SIGN	(114)	SF	26
56	COT 608	1-3/4" SIGN POST	(114)	LF	260
57	COT 608	2" SIGN POST	(114)	LF	78
58	SPECIAL	OWNER'S ALLOWANCE	(116)	ALLOW	15,000
59	SPECIAL	URBAN RIGHT OF WAY RESTORATION	(110)	EA	1
60	SPECIAL	SPECIAL SIGNAGE FOR LOCAL BUSINESS ACCESS (BAS-1)	(T-4) (204)	SD	5,060

△  
△  
△


ITEMS LISTED OR SHOWN IN DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS. THE PRICE BID FOR ALL WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, INCIDENTALS AND ALL OTHER REQUIRED ITEMS TO COMPLETE THE WORK AS SHOWN ON PLANS AND SPECIFICATIONS.



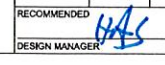
**PAY ITEMS AND NOTES**  
(1 OF 2)

BRIDGE REHABILITATION  
CITYWIDE  
PROJECT NO. 2436B0005Z  
189, 190, 219B, 224, 272, 300A, and 304

CITY OF TULSA, OKLAHOMA  
PUBLIC WORKS DEPARTMENT



Benham Design, LLC  
15 W 6th St, Suite 900  
Tulsa, Oklahoma 74119  
(918) 492-1600  
a Haskell Company

REVISION	BY	DATE	PLAN SCALE	DRAWN	ES	09/25	APPROVED:
△ UPDATED PAY ITEM 40, 41, AND 41A	JP	5/28	1"=N/A	DESIGNED	KS	09/25	 CITY ENGINEER DATE: SEPTEMBER 2025
			1"=N/A	SURVEY			
			PROFILE SCALE	FIELD MGR			
			HORIZONTAL:	PROJECT MGR			
			VERTICAL:	LEAD ENGR			
			1"=N/A	RECOMMENDED			
				DESIGN MANAGER			
			FILE:				
			ATLAS PAGE NO.: 76, 77, 115, 116, 162, 163, 217, 218, 280, 281				SHEET 4 OF 53 SHEETS



**ROADWAY PAY ITEM NOTES (11/1/2024)**

- 103 PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK WHICH ARE VISIBLE OR WHOSE LOCATION COULD REASONABLY HAVE BEEN DETERMINED WITH AVAILABLE INFORMATION.
- 104 LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.
- 105 MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
- 106 CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.
- 107 THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.
- 108 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY STAGING AREAS AND REMOVING ALL STAGING AREAS, AS WELL AS RESTORATION TO PRE-PROJECT OR BETTER. NO ADDITIONAL COST TO CITY.
- 109 SHALL INCLUDE ALL LABOR, EQUIPMENT, AND ASSOCIATED COSTS TO COMPLETE THE REQUIRED BID ITEM TO THE FULL EXTENT REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
- 110 ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID.
- 111 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.
- 112 EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
  - A. AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;
  - B. IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;
  - C. FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER;
  - D. WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN.

ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.
- 113 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION. APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.
- 114 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS.
- 115 INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- 116 CONTRACTOR NOT TO EXCEED ALLOWED MAXIMUM

**TRAFFIC PAY ITEM NOTES (6/27/2025)**

- T-1 ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- T-2 REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- T-3 ALL PLASTIC PAVEMENT MARKINGS SHALL BE:
  - EXTRUDED-APPLIED THERMOPLASTIC (USE ON ASPHALT AND CONCRETE PAVEMENT). THERMOPLASTIC PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN THE SURFACE TEMPERATURE EXCEEDS 55°F FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION AND MAXIMUM WIND GUSTS ARE BELOW 15 MPH AT THE TIME OF APPLICATION. PRICE BID TO INCLUDE FLEX TABS OR LIKE KIND FOR POST CONSTRUCTION LANE MARKING/SEPARATION. MECHANICALLY APPLIED PREFORMED PLASTIC TAPE ("COLD TAPE") WILL NOT BE ACCEPTED.
- T-4 PAYMENT SHALL BE MADE ON A SIGN-DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE REMOVAL AND REPLACEMENT, AS NEEDED AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE BID.
- T-5 IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- T-6 THE PAY ITEM FOR FLAGGER SHALL BE PAID FOR ON A FLAG DAY (F.D.) BASIS. ONE F.D. IS ONE COMPLETE WORKDAY PERFORMED BY THE CONTRACTOR AS SET FORTH IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 201 230 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY AND FLAG DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY AND FLAG DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT COT STANDARDS, MUTCD STANDARDS, AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY AND FLAG DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- 202 QUANTITIES SHOWN FOR CONSTRUCTION SIGNING HAVE BEEN INCREASED TO ALLOW FOR TRAFFIC CONTROL ON CROSS STREETS NOT SHOWN ON THE PLANS.
- 203 CONTRACTOR SHALL INSTALL AND MAINTAIN SAFETY FENCE ALONG THE EDGE OF OPEN CUTS WITHIN THE CONSTRUCTION ZONE. SAFETY FENCE SHALL BE AN OPEN MESH TYPE, HIGH-DENSITY PLASTIC MATERIAL, 48-INCHES IN HEIGHT, AND COLORED INTERNATIONAL SAFETY ORANGE. FENCE SHALL BE SUPPORTED BY FENCE POSTS SPACED AT NO MORE THAN 10 FEET. PAYMENT FOR SAFETY FENCE SHALL BE AT THE UNIT PRICE BID PER LINEAR FOOT BASED ON THE TOTAL FOOTAGE USED FOR THE DURATION OF THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING THE FENCE AS THE JOB SITE CHANGES.
- 204 CONTRACTOR SHALL INSTALL AND MAINTAIN INFORMATION SIGNS TO ADVISE THE PUBLIC THAT BUSINESSES ARE OPEN AND WHERE ACCESS POINTS TO THE BUSINESSES ARE LOCATED.
- 205 CONCRETE BARRIER SHALL NOT BE USED AS PORTABLE LONGITUDINAL BARRIER FOR PHASED CONSTRUCTION OF BRIDGE 224. STEEL BARRIER SHALL BE USED PER ODOT STD. TCS24-1 AND AS SHOWN ON SHEET 27.

**BRIDGE PAY ITEM NOTES**

- 101 THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- 102 WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
- 301 PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITIES ONLY. SEE SECTION 109.01B OF THE ODOT 2019 STANDARD SPECIFICATIONS.
- 302 ALL COST INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "PREPARATION OF CRACKS, ABOVE WATER" AND THE PRICE BID PER GALLON OF "EPOXY RESIN, ABOVE WATER".
- 303 AN ADDITIONAL 25 LF OF QUANTITY FOR EACH BRIDGE WITH THE PAY ITEM "PREPARATION OF CRACKS, ABOVE WATER" HAS BEEN INCLUDED IN THE QUANTITIES, TO BE USED AT THE DISCRETION OF THE ENGINEER.
- 304 PAY ITEM FOR REMOVAL OF EXISTING SUPERSTRUCTURE INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS.
- 305 QUANTITY ASSUMES 2" THICK LAYER OF OVERLAY. INCLUDES ALL LABOR, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE CONSTRUCTION OF OVERLAY. ADDITIONAL PAYMENT NOT ALLOWED.
- 306 ESTIMATED QUANTITY IS 5% OF BRIDGE DECK SURFACE AREA IN SQUARE YARDS. PAYMENT ONLY FOR ACTUAL REPAIRS PERFORMED WILL BE ALLOWED. PAYMENT WILL NOT BE MADE FOR REPAIRS NOT PERFORMED.
- 307 QUANTITY INCLUDES REPAIRS OF WEST SIDE OF COLUMN AT BRIDGE 219C NB, ESTIMATED TO BE 3.0 SY. BRIDGE 219C NB IS DIRECTLY ADJACENT TO BRIDGE 219B SB. ADDITIONAL PAYMENT FOR FOR REPAIRS TO BRIDGE 219C NB WILL NOT BE CONSIDERED.
- 308 RIPRAP SIZE SHALL BE 24", PER ODOT 2019 STANDARD SPECIFICATIONS SECTION 713.
- 309 FILTER BLANKET SHALL BE 6", PER ODOT 2019 STANDARD SPECIFICATIONS SECTION 713.
- 310 ALL COST INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS TO COMPLETE THE WORK AS SHOWN IN THE PLANS AND SPECIFIED IN SECTION 505 OF THE 2019 ODOT STANDARD SPECIFICATIONS AND THE SPECIAL PROVISION SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "HYDRODEMOLITION".
- 311 ALL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO FABRICATE, TRANSPORT, AND INSTALL ANTI-LOITERING DEVICES SHALL BE INCLUDED IN THE PRICE BID PER CY OF "CLASS A CONCRETE".
- 312 AN ADDITIONAL 10% OF QUANTITY FOR BRIDGE 300A WITH THE PAY ITEM "(SP) CARBON FIBER-REINFORCED POLYMER" HAS BEEN INCLUDED IN THE QUANTITIES, TO BE USED AT THE DISCRETION OF THE ENGINEER.
- 313 AN ADDITIONAL 2 SY OF QUANTITY FOR BRIDGE 300A WITH THE PAY ITEM "PNEUMATICALLY PLACED MORTAR" HAS BEEN INCLUDED IN THE QUANTITIES, TO BE USED AT THE DISCRETION OF THE ENGINEER.
- 314 AN ADDITIONAL 1 CY OF QUANTITY FOR BRIDGE 300A WITH THE PAY ITEM "CLASS AA CONCRETE" HAS BEEN INCLUDED IN THE QUANTITIES, TO BE USED AT THE DISCRETION OF THE ENGINEER.
- 315 INCLUDES 2,000 POUNDS OF STAINLESS STEEL FOR ANCHOR PLATES AND SHIM PLATES FOR BRIDGE 224 BEARING PLATES.
- 316 ANCHOR BOLTS AND ALL DRILLING AND GROUTING OF ANCHOR BOLTS AND REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD OF CLASS AA CONCRETE.
- 317 INCLUDES QUANTITIES FOR BEARING ASSEMBLY SHIM PLATES WEIGHT.



9-30-25

**PAY ITEMS AND NOTES  
(2 OF 2)**

**BRIDGE REHABILITATION  
CITYWIDE  
PROJECT NO. 2436B0005Z  
189, 190, 219B, 224, 272, 300A, and 304**

**CITY OF TULSA, OKLAHOMA  
PUBLIC WORKS DEPARTMENT**



REVISION	BY	DATE	PLAN SCALE	DRAWN	ES	09/25	APPROVED:
△	JP	5/28	1" = N/A	DESIGNED	KS	09/25	
				SURVEY			
				FIELD MGR			
				PROJECT MGR			
				LEAD ENGR			
				RECOMMENDED			
				DESIGN MANAGER	HAL		
				FILE:			CITY ENGINEER
							DATE: SEPTEMBER 2025
							SHEET 5 OF 53 SHEETS

