



WATER AND SEWER
Engineering Design

DATE:
October 1, 2025

TO:
Plan Holders
Contractors

FROM:
Jenna Richardson
918-596-9637
jennarichardson@cityoftulsa.org

EMAIL TRANSMITTAL

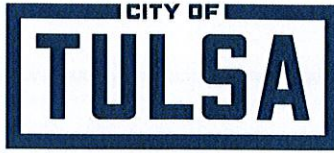
ADDENDUM NO. 2

PROJECT NO. 144017-W & 144017-AX, TMUA-W 16-33, TMUA-W 16-36 ARTERIAL STREET REHABILITATION OF S. UTICA AVE & WATERLINE REPLACEMENT E. 11th ST. TO E. 15th ST.

Number of pages: **11**

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:
October 1, 2025

**ADDENDUM NO. 2
TO
PROJECT NO. 144017-W & 144017-AX, TMUA-W 16-33, TMUA-W 16-36
ARTERIAL STREET REHABILITATION OF S. UTICA AVE &
WATERLINE REPLACEMENT E. 11th ST. TO E. 15th ST.**

This Addendum No. 2 consisting of two (2) items, submitted by City of Tulsa, is hereby made as 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. 2 consists of the following:

1. Delete the existing bid proposal form in its entirety and replace with the revised Bid Proposal located at: <https://www.cityoftulsa.org/government/departments/public-works/engineering-services/construction-bids/>. It is the Bidder's responsibility to download the revised Bid Proposal.
2. Revised plan Sheet No. 6 – TRAFFIC SIGNAL QUANTITIES & NOTES.
 - a. Added Bid Item No. 185 – COT 617 – 30' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM. EXT to the TRAFFIC PAY QUANTITIES summary – TOTAL 1 EA

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/DDH/JR
HAS/DDH/JR

1826 x 1826

TUL * USA

ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET
PROJECT NO. 144017-W, 144017-AX, TMUA-W 16-33, TMUA-W 16-36
ARTERIAL STREET REHABILITATION OF S. UTICA AVE. AND WATERLINE REPLACEMENT
E. 11TH STREET TO E. 15TH STREET

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 1hardcopy 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.

NOTES:

1. The sheet named "FOR CONTRACTOR USE" shall be used by the contractor to export data to estimating software.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and Between: BKL, Inc., (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. 144017-W, 144017-AX, TMUA-W 16-33, TMUA-W 16-36 - ARTERIAL STREET REHABILITATION OF S. UTICA AVE. AND WATERLINE REPLACEMENT - E. 11TH STREET TO E. 15TH STREET. 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

PROPOSAL
PROJECT NO. 144017-W, 144017-AX, TMUA-W 16-33, TMUA-W 16-36
ARTERIAL STREET REHABILITATION OF S. UTICA AVE. AND WATERLINE REPLACEMENT
E. 11TH STREET TO E. 15TH STREET

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 referred to therein; to complete said work within **330** 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 Engineers as set forth in the Contract.

Basis of Award

THE BID PROPOSAL INCLUDES A ROADWAY BASE BID, TWO STORMWATER PIPE MATERIAL OPTIONS, A WATERLINE BASE BID, A WATERLINE ADDITIVE ALTERNATE, AND A TRAFFIC BASE BID. IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE BID SHALL BE DETERMINED BY THE TOTAL BID = (ROADWAY BASE BID + LOWEST STORMWATER PIPE MATERIAL OPTION + WATERLINE BASE BID + WATERLINE ADDITIVE ALTERNATE + TRAFFIC BASE BID). ANY PROPOSAL SUBMITTED WITH EITHER THE STORMWATER PIPE MATERIAL OPTION INCOMPLETE OR THE WATERLINE ADDITIVE ALTERNATE INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE. THE CITY RESERVES THE RIGHT TO SELECT EITHER STORMWATER PIPE MATERIAL OPTION IN THE EVENT THE BID AMOUNTS OF THE TWO MATERIAL OPTIONS ARE EQUAL. THE WATERLINE ADDITIVE ALTERNATE MAY OR MAY NOT BE INCLUDED IN THE CONTRACT AWARD AT THE SOLE DISCRETION OF THE CITY OF TULSA.

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

PROPOSAL
PROJECT NO. 144017-W, 144017-AX, TMUA-W 16-33, TMUA-W 16-36
ARTERIAL STREET REHABILITATION OF S. UTICA AVE. AND WATERLINE REPLACEMENT
E. 11th STREET TO E. 15th STREET

ROADWAY BASE BID						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
1	201(A)	CLEARING AND GRUBBING	ACRE	0.25		\$ -
2	202(A)	UNCLASSIFIED EXCAVATION	CY	1,284		\$ -
3	COT202	QUICK SET FLOWABLE FILL	CY	100		\$ -
4	205(A)	TYPE A SALVAGED TOPSOIL	CY	203		\$ -
5	220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1		\$ -
6	230(A)	SOLID SLAB SODDING	SY	1,218		\$ -
7	303(A)	AGGREGATE BASE TYPE "A"	CY	419		\$ -
8	310(B)	SUBGRADE METHOD B	SY	1,254		\$ -
9	325	SEPARATOR FABRIC	SY	1,819		\$ -
10	COT334	CONSTRUCTION AS-BUILT	LSUM	1		\$ -
11	COT335	CONTRACTOR'S QUALITY CONTROL	LSUM	1		\$ -
12	409	FABRIC REINFORCEMENT	SY	6,445		\$ -
13	411(B)	SUPERPAVE, TYPE S3 (PG 70-28 OK)	TON	2,166		\$ -
14	411(C)	SUPERPAVE, TYPE S4 (PG 70-28 OK)	TON	723		\$ -
15	411(D)	SUPERPAVE, TYPE S6 (PG 70-28 OK)	TON	344		\$ -
16	412	COLD MILL PAVEMENT	SY	6,445		\$ -
17	414(A)	P.C. CONCRETE PAVEMENT (PLACEMENT)	SY	3,360		\$ -
18	414(G)	P.C. CONCRETE FOR PAVEMENT	CY	837		\$ -
19	COT 608(A)	GROUND SIGN	SF	274		\$ -
20	COT 608(B)	1-1/2" SIGN POST	LF	8		\$ -
21	COT 608(B)	1-3/4" SIGN POST	LF	347		\$ -
22	COT 608(B)	2" SIGN POST	LF	93		\$ -
23	609(B)	COMBINED CURB AND GUTTER (6" BARRIER)	LF	2,470		\$ -
24	610(A)	CONCRETE SIDEWALK 4"	SY	2,028		\$ -
25	610(A)	STAMPED CONCRETE SIDEWALK 4"	SY	230		\$ -
26	610(B)	CONCRETE DRIVEWAY (6" H.E.S.)	SY	304		\$ -
27	610(C)	6" CONCRETE DIVIDING STRIP	SY	2		\$ -
28	610(I)	TACTILE WARNING DEVICE - NEW	SF	410		\$ -
29	611(A)	(4' I.D.) MANHOLE, COMPLETE IN PLACE	EA	4		\$ -
30	611(A)	(8' I.D.) MANHOLE, COMPLETE IN PLACE	EA	2		\$ -
31	611(A)	(6' I.D.) MANHOLE, COMPLETE IN PLACE	EA	1		\$ -
32	611(G)	INLET CICI DESIGN NO. 2, COMPLETE IN PLACE	EA	6		\$ -
33	611(G)	INLET CICI DESIGN NO. 2 W/ AMH, COMPLETE IN PLACE	EA	1		\$ -
34	611(G)	INLET CICI DESIGN NO. 2(D), COMPLETE IN PLACE	EA	1		\$ -
35	611(G)	INLET CICI DESIGN NO. 3, COMPLETE IN PLACE	EA	1		\$ -
36	611(G)	INLET CICI DESIGN NO. 4(B), COMPLETE IN PLACE	EA	2		\$ -
37	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 2)	VF	1		\$ -
38	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 4)	VF	1		\$ -
39	612(A)	MANHOLE ADJUSTED TO GRADE (PUBLIC)	EA	4		\$ -
40	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LSUM	1		\$ -
41	619(B)	REMOVAL OF EXISTING PAVEMENT	SY	1,120		\$ -
42	619(B)	REMOVAL OF CURB & GUTTER	LF	2,386		\$ -
43	619(B)	REMOVAL OF SIDEWALK	SY	2,190		\$ -
44	619(B)	REMOVAL OF DRIVEWAY	SY	267		\$ -
45	641	MOBILIZATION	EA	1		\$ -
46	642	CONSTRUCTION STAKING LEVEL II	EA	1		\$ -
47	850(D)	(PL) REMOVE & RESET EXISTING SIGNS	EA	9		\$ -
48	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(4")	LF	9,601		\$ -
49	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(8")	LF	331		\$ -
50	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(24")	LF	1,752		\$ -
51	855(B)	TRAFFIC STRIPE (THERMOPLASTIC. ARROWS)	EA	51		\$ -
52	857(C)	REMOVABLE PAVEMENT MARKING TAPE	LF	10,000		\$ -
53	857(F)	PAVEMENT MARKING REMOVAL	LF	12,000		\$ -
54	857(F)	PAVEMENT MARKING REMOVAL (ARROWS)	EA	24		\$ -
55	880(A)	ARROW DISPLAY	SD	360		\$ -
56	880(B)	SIGNS 0.00 TO 6.25 SF	SD	4,100		\$ -
57	880(B)	SIGNS 6.26 TO 15.99 SF	SD	20,430		\$ -
58	880(B)	SIGNS 16.00 AND UP	SD	6,360		\$ -
59	880(C)	BARRICADES (TYPE III)	SD	17,640		\$ -
60	880(E)	TYPE "A" WARNING LIGHT	SD	41,640		\$ -
61	880(F)	DRUMS	SD	38,160		\$ -
62	880(G)	TUBE CHANNELIZERS	SD	30,090		\$ -
63	880(I)	FLAGGER	FD	180		\$ -
64	882(B)	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN	SD	374		\$ -
65	SPECIAL	PROJECT SIGN (CITY OF TULSA)	EA	2		\$ -
66	SPECIAL	TYPE I APC PATCH (ARTERIAL)	CY	101		\$ -
67	SPECIAL	TYPE I PCC PATCH	CY	81		\$ -
68	SPECIAL	CURB RAMP	EA	29		\$ -
69	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	EA	1		\$ -
70	SPECIAL	OWNER ALLOWANCE	EA	10,000	\$ 1.00	\$ 10,000.00
ROADWAY BASE BID SUBTOTAL						\$ 10,000.00

STORMWATER PIPE MATERIAL OPTION 1 (RCP)						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
71	613(A)	18" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	654		\$ -
72	613(A)	24" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	36		\$ -
STORMWATER PIPE MATERIAL OPTION 1 (RCP) SUBTOTAL						
STORMWATER PIPE MATERIAL OPTION 2 (CPP)						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
73	(SP)COT215	18" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	654		\$ -
74	(SP)COT215	24" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	36		\$ -
STORMWATER PIPE MATERIAL OPTION 2 (CPP) SUBTOTAL						
WATERLINE BASE BID						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
75	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	CY	1,951		\$ -
76	WS 303	MOBILIZATION	EA	1		\$ -
77	ODOT 642	CONSTRUCTION STAKING LEVEL II	EA	1		\$ -
78	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	LF	382		\$ -
79	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	LF	164		\$ -
80	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	1,245		\$ -
81	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	EA	2		\$ -
82	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	EA	16		\$ -
83	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	EA	10		\$ -
84	WS 312(F)	12"x12"x6" DI TEE (RJ)	EA	10		\$ -
85	WS 312(G)	12"x12"x12" DI TEE (RJ)	EA	1		\$ -
86	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	EA	1		\$ -
87	WS 312(J)	6" SLEEVE DI (RJ)	EA	38		\$ -
88	WS 312(K)	12" SLEEVE DI (RJ)	EA	36		\$ -
89	WS 312(L)	12"x6" DI REDUCER (RJ)	EA	2		\$ -
90	WS 315(B)	3/4" WATER SERVICE CONNECTION (LONG)	EA	1		\$ -
91	WS 315(B)	3/4" WATER SERVICE CONNECTION (SHORT)	EA	3		\$ -
92	WS 315(D)	3/4" WATER SERVICE METER CAN, LID, & RIM	EA	4		\$ -
93	WS 317(A)	6" GATE VALVE (RJ)	EA	11		\$ -
94	WS 317(B)	12" GATE VALVE (RJ)	EA	8		\$ -
95	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE	EA	5		\$ -
96	WS 317(D)	6" FIRE HYDRANT EXTENSION	EA	5		\$ -
97	WS 317(E)	12" FIRE HYDRANT EXTENSION	EA	5		\$ -
98	WS 317(F)	18" FIRE HYDRANT EXTENSION	EA	5		\$ -
99	WS 318(A)	VALVE BOX	EA	19		\$ -
100	WS 318(B)	VALVE BOX EXTENSION	VF	19		\$ -
101	WS 325	SODDING AND SEEDING	SY	18		\$ -
102	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	SY	1,046		\$ -
103	COT 334	CONSTRUCTION AS-BUILTS	LSUM	1		\$ -
104	COT 335	CONTRACTOR'S QUALITY CONTROL	LSUM	1		\$ -
105	SPECIAL	OWNER ALLOWANCE	EA	5,000	\$ 1.00	\$ 5,000.00
WATERLINE BASE BID SUBTOTAL						\$ 5,000.00
WATERLINE ADDITIVE ALTERNATE NO. 1						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
106	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	CY	1,872		\$ -
107	WS 307(A)	6" DIP, CL51 POLYETHYLENE WRAPPED	LF	137		\$ -
108	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	LF	451		\$ -
109	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	LF	264		\$ -
110	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	645		\$ -
111	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	EA	2		\$ -
112	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	EA	17		\$ -
113	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	EA	10		\$ -
114	WS 312(E)	6"x6"x6" DI TEE (RJ)	EA	2		\$ -
115	WS 312(F)	12"x12"x6" DI TEE (RJ)	EA	3		\$ -
116	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	EA	2		\$ -
117	WS 312(J)	6" SLEEVE DI (RJ)	EA	33		\$ -
118	WS 312(K)	12" SLEEVE DI (RJ)	EA	25		\$ -
119	WS 312(L)	12"x6" DI REDUCER (RJ)	EA	3		\$ -
120	WS 315(F)	1" WATER SERVICE CONNECTION (LONG)	EA	2		\$ -
121	WS 315(F)	1" WATER SERVICE CONNECTION (SHORT)	EA	4		\$ -
122	WS 315(H)	1" WATER SERVICE METER CAN, LID, & RIM	EA	6		\$ -
123	WS 317(A)	6" GATE VALVE (RJ)	EA	9		\$ -
124	WS 317(B)	12" GATE VALVE (RJ)	EA	4		\$ -
125	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE	EA	3		\$ -
126	WS 317(D)	6" FIRE HYDRANT EXTENSION	EA	3		\$ -
127	WS 317(E)	12" FIRE HYDRANT EXTENSION	EA	3		\$ -
128	WS 317(F)	18" FIRE HYDRANT EXTENSION	EA	3		\$ -
129	WS 318(A)	VALVE BOX	EA	13		\$ -
130	WS 318(B)	VALVE BOX EXTENSION	VF	13		\$ -
131	WS 325	SODDING AND SEEDING	SY	28		\$ -
132	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	SY	867		\$ -
WATERLINE ADDITIVE ALTERNATE NO. 1 SUBTOTAL						\$ -

TRAFFIC BASE BID						
BID ITEM	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
133	COT 601	PULL BOX SIZE II	EA	12		\$ -
134	COT 601	PULL BOX SIZE III	EA	4		\$ -
135	COT 602	2" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	225		\$ -
136	COT 602	3" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	320		\$ -
137	COT 602	3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	LF	10		\$ -
138	COT 602	4" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	LF	260		\$ -
139	COT 602	2-3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	LF	1,355		\$ -
140	COT 603	30" SIGNAL FOOTING S-30/36	EA	5		\$ -
141	COT 603	36" SIGNAL FOOTING S-42/50	EA	3		\$ -
142	COT 603	24" PEDESTAL FOOTING F-1	EA	23		\$ -
143	COT 606	PRE-EMPTION CABLE	LF	2,055		\$ -
144	COT 606	INFRARED PRE-EMPTION DETECTOR	EA	8		\$ -
145	COT 606	PRE-EMPTION PHASE SELECTOR	EA	4		\$ -
146	COT 607	SERVICE TO SIGNAL STANDARD	EA	2		\$ -
147	COT 608	GROUND SIGN	SF	25		\$ -
148	COT 608	OVERHEAD SIGN	SF	320		\$ -
149	COT 610	TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY	EA	3		\$ -
150	COT 611	2#14 SHIELDED ELECTRICAL CONDUCTOR	LF	3,860		\$ -
151	COT 611	4#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	485		\$ -
152	COT 611	20#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	1,680		\$ -
153	COT 611	GREEN #12 THHN ELECTRICAL CONDUCTOR	LF	4,425		\$ -
154	COT 611	2#12 UF ELECTRICAL CONDUCTOR WITH GROUND	LF	2,810		\$ -
155	COT 611	7#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	4,585		\$ -
156	COT 611	GREEN #6 THHN ELECTRICAL CONDUCTOR	LF	1,490		\$ -
157	COT 611	CAT 6 ETHERNET CABLE	LF	705		\$ -
158	COT 612	CABINET BASE, APRON AND GUARD	EA	4		\$ -
159	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON STATION AND SIGN	EA	28		\$ -
160	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONTROL CARD/UNIT	EA	4		\$ -
161	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONFIG/PROGRAMMING DEVICE	EA	3		\$ -
162	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#36)	EA	20		\$ -
163	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#54L)	EA	2		\$ -
164	COT 614	LED 4 SECTION TRAFFIC SIGNAL HEAD (#13L)(FLTYA)	EA	8		\$ -
165	COT 614	LED ICC PEDESTRIAN HEAD (#33)	EA	28		\$ -
166	COT 615	BASE COVERS	EA	9		\$ -
167	COT 617	36" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	4		\$ -
168	COT 617	42" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	2		\$ -
169	COT 617	42" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM EXT	EA	1		\$ -
170	COT 617	10' PEDESTAL POLE	EA	23		\$ -
171	COT 619	TEMP SIGNAL SPAN	EA	1		\$ -
172	COT 619	TEMP SIGNAL POLE	EA	1		\$ -
173	COT 619	TEMP SIGNAL CABINET	EA	1		\$ -
174	COT 619	TEMP SIGNAL SERVICE	EA	1		\$ -
175	COT 620	VIDEO DETECTION SYSTEM	EA	3		\$ -
176	COT 621	ROADWAY LUMINAIRE	EA	8		\$ -
177	COT 622	WIRELESS TRAFFIC SIGNAL COMMUNICATIONS SYSTEM	EA	3		\$ -
178	COT 623	BATTERY BACKUP SYSTEM	EA	2		\$ -
179	COT 625	REMOVAL OF TRAFFIC ITEMS	EA	3		\$ -
180	COT 626	TRAFFIC SIGNAL MAINTENANCE	HR	1		\$ -
181	COT 626	SIGNAL MODIFICATIONS FOR LANE CLOSURES (PER SIGNALIZED INTERSECTION)	EA	1		\$ -
182	SPECIAL	TRAFFIC ITEMS	LSUM	1		\$ -
183	COT 603	48" SIGNAL FOOTINGS-54/58	EA	1		\$ -
184	COT 617	54" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM. EXT	EA	1		\$ -
185	COT 617	30" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM. EXT	EA	1		\$ -
TRAFFIC BASE BID SUBTOTAL						

TOTAL BID = (ROADWAY BASE BID + LOWEST STORMWATER PIPE MATERIAL OPTION + WATERLINE BASE BID + WATERLINE ADDITIVE ALTERNATE + TRAFFIC BASE BID)						\$15,000.00
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TOTAL BID = (ROADWAY BASE BID + LOWEST STORMWATER PIPE OPTION + WATERLINE BASE BID + WATERLINE ADDITIVE ALTERNATE + TRAFFIC BASE BID) \$ 15000

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 _____, 202__.

Respectfully submitted,

(Complete legal name of company)

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):

FOR CONTRACTOR USE
PROJECT NO. 144017-W, 144017-AX, TMUA-W 16-33, TMUA-W 16-36
ARTERIAL STREET REHABILITATION OF S. UTICA AVE. AND WATERLINE REPLACEMENT
E. 11th STREET TO E. 15th STREET

BID ITEM	SPEC NO.	DESCRIPTION	UNIT	QUANTITY
1	201(A)	CLEARING AND GRUBBING	ACRE	0.25
2	202(A)	UNCLASSIFIED EXCAVATION	CY	1,284
3	COT202	QUICK SET FLOWABLE FILL	CY	100
4	205(A)	TYPE A SALVAGED TOPSOIL	CY	203
5	220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1
6	230(A)	SOLID SLAB SODDING	SY	1,216
7	303(A)	AGGREGATE BASE TYPE "A"	CY	419
8	310(B)	SUBGRADE METHOD B	SY	1,254
9	325	SEPARATOR FABRIC	SY	1,819
10	COT334	CONSTRUCTION AS-BUILT	LSUM	1
11	COT335	CONTRACTOR'S QUALITY CONTROL	LSUM	1
12	409	FABRIC REINFORCEMENT	SY	6,445
13	411(B)	SUPERPAVE, TYPE S3 (PG 70-28 OK)	TON	2,166
14	411(C)	SUPERPAVE, TYPE S4 (PG 70-28 OK)	TON	723
15	411(D)	SUPERPAVE, TYPE S6 (PG 70-28 OK)	TON	344
16	412	COLD MILL PAVEMENT	SY	6,445
17	414(A)	P.C. CONCRETE PAVEMENT (PLACEMENT)	SY	3,360
18	414(G)	P.C. CONCRETE FOR PAVEMENT	CY	837
19	COT 608(A)	GROUND SIGN	SF	274
20	COT 608(B)	1-1/2" SIGN POST	LF	8
21	COT 608(B)	1-3/4" SIGN POST	LF	347
22	COT 608(B)	2" SIGN POST	LF	93
23	609(B)	COMBINED CURB AND GUTTER (6" BARRIER)	LF	2,470
24	610(A)	CONCRETE SIDEWALK 4"	SY	2,026
25	610(A)	STAMPED CONCRETE SIDEWALK 4"	SY	230
26	610(B)	CONCRETE DRIVEWAY (6" H.E.S.)	SY	304
27	610(C)	6" CONCRETE DIVIDING STRIP	SY	2
28	610(I)	TACTILE WARNING DEVICE - NEW	SF	410
29	611(A)	(4' I.D.) MANHOLE, COMPLETE IN PLACE	EA	4
30	611(A)	(5' I.D.) MANHOLE, COMPLETE IN PLACE	EA	2
31	611(A)	(6' I.D.) MANHOLE, COMPLETE IN PLACE	EA	1
32	611(G)	INLET CICI DESIGN NO. 2, COMPLETE IN PLACE	EA	6
33	611(G)	INLET CICI DESIGN NO. 2 W/ AMH, COMPLETE IN PLACE	EA	1
34	611(G)	INLET CICI DESIGN NO. 2(D), COMPLETE IN PLACE	EA	1
35	611(G)	INLET CICI DESIGN NO. 3, COMPLETE IN PLACE	EA	1
36	611(G)	INLET CICI DESIGN NO. 4(B), COMPLETE IN PLACE	EA	2
37	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 2)	VF	1
38	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 4)	VF	1
39	612(A)	MANHOLE ADJUSTED TO GRADE (PUBLIC)	EA	4
40	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LSUM	1
41	619(B)	REMOVAL OF EXISTING PAVEMENT	SY	1,120
42	619(B)	REMOVAL OF CURB & GUTTER	LF	2,386
43	619(B)	REMOVAL OF SIDEWALK	SY	2,190
44	619(B)	REMOVAL OF DRIVEWAY	SY	267
45	641	MOBILIZATION	EA	1
46	642	CONSTRUCTION STAKING LEVEL II	EA	1
47	850(D)	(PL) REMOVE & RESET EXISTING SIGNS	EA	9
48	855(A)	TRAFFIC STRIPE (THERMOPLASTIC.) (4")	LF	9,601
49	855(A)	TRAFFIC STRIPE (THERMOPLASTIC.) (8")	LF	331
50	855(A)	TRAFFIC STRIPE (THERMOPLASTIC.) (24")	LF	1,752
51	855(B)	TRAFFIC STRIPE (THERMOPLASTIC. ARROWS)	EA	51
52	857(C)	REMOVABLE PAVEMENT MARKING TAPE	LF	10,000
53	857(F)	PAVEMENT MARKING REMOVAL	LF	12,000
54	857(F)	PAVEMENT MARKING REMOVAL (ARROWS)	EA	24
55	880(A)	ARROW DISPLAY	SD	360
56	880(B)	SIGNS 0.00 TO 6.25 SF	SD	4,100
57	880(B)	SIGNS 6.26 TO 15.99 SF	SD	20,430
58	880(B)	SIGNS 16.00 AND UP	SD	6,360
59	880(C)	BARRICADES (TYPE III)	SD	17,640
60	880(E)	TYPE "A" WARNING LIGHT	SD	41,640
61	880(F)	DRUMS	SD	38,160

62	880(G)	TUBE CHANNELIZERS	SD	30,090
63	880(I)	FLAGGER	FD	180
64	882(B)	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN	SD	374
65	SPECIAL	PROJECT SIGN (CITY OF TULSA)	EA	2
66	SPECIAL	TYPE I APC PATCH (ARTERIAL)	CY	101
67	SPECIAL	TYPE I PCC PATCH	CY	81
68	SPECIAL	CURB RAMP	EA	29
69	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	EA	1
70	SPECIAL	OWNER ALLOWANCE	EA	10,000
71	613(A)	18" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	654
72	613(A)	24" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	36
73	(SP)COT215	18" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	654
74	(SP)COT215	24" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	36
75	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	CY	1,951
76	WS 303	MOBILIZATION	EA	1
77	ODOT 642	CONSTRUCTION STAKING LEVEL II	EA	1
78	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	LF	382
79	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	LF	164
80	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	1,245
81	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	EA	2
82	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	EA	16
83	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	EA	10
84	WS 312(F)	12"x12"x6" DI TEE (RJ)	EA	10
85	WS 312(G)	12"x12"x12" DI TEE (RJ)	EA	1
86	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	EA	1
87	WS 312(J)	6" SLEEVE DI (RJ)	EA	38
88	WS 312(K)	12" SLEEVE DI (RJ)	EA	36
89	WS 312(L)	12"x6" DI REDUCER (RJ)	EA	2
90	WS 315(B)	3/4" WATER SERVICE CONNECTION (LONG)	EA	1
91	WS 315(B)	3/4" WATER SERVICE CONNECTION (SHORT)	EA	3
92	WS 315(D)	3/4" WATER SERVICE METER CAN, LID, & RIM	EA	4
93	WS 317(A)	6" GATE VALVE (RJ)	EA	11
94	WS 317(B)	12" GATE VALVE (RJ)	EA	8
95	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE	EA	5
96	WS 317(D)	6" FIRE HYDRANT EXTENSION	EA	5
97	WS 317(E)	12" FIRE HYDRANT EXTENSION	EA	5
98	WS 317(F)	18" FIRE HYDRANT EXTENSION	EA	5
99	WS 318(A)	VALVE BOX	EA	19
100	WS 318(B)	VALVE BOX EXTENSION	VF	19
101	WS 325	SODDING AND SEEDING	SY	18
102	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	SY	1,046
103	COT 334	CONSTRUCTION AS-BUILTS	LSUM	1
104	COT 335	CONTRACTOR'S QUALITY CONTROL	LSUM	1
105	SPECIAL	OWNER ALLOWANCE	EA	5,000
106	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	CY	1,872
107	WS 307(A)	6" DIP, CL51 POLYETHYLENE WRAPPED	LF	137
108	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	LF	451
109	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	LF	264
110	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	645
111	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	EA	2
112	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	EA	17
113	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	EA	10
114	WS 312(E)	6"x6"x6" DI TEE (RJ)	EA	2
115	WS 312(F)	12"x12"x6" DI TEE (RJ)	EA	3
116	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	EA	2
117	WS 312(J)	6" SLEEVE DI (RJ)	EA	33
118	WS 312(K)	12" SLEEVE DI (RJ)	EA	25
119	WS 312(L)	12"x6" DI REDUCER (RJ)	EA	3
120	WS 315(F)	1" WATER SERVICE CONNECTION (LONG)	EA	2
121	WS 315(F)	1" WATER SERVICE CONNECTION (SHORT)	EA	4
122	WS 315(H)	1" WATER SERVICE METER CAN, LID, & RIM	EA	6
123	WS 317(A)	6" GATE VALVE (RJ)	EA	9
124	WS 317(B)	12" GATE VALVE (RJ)	EA	4
125	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE	EA	3
126	WS 317(D)	6" FIRE HYDRANT EXTENSION	EA	3
127	WS 317(E)	12" FIRE HYDRANT EXTENSION	EA	3

128	WS 317(F)	18" FIRE HYDRANT EXTENSION	EA	3
129	WS 318(A)	VALVE BOX	EA	13
130	WS 318(B)	VALVE BOX EXTENSION	VF	13
131	WS 325	SODDING AND SEEDING	SY	28
132	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	SY	867
133	COT 601	PULL BOX SIZE II	EA	12
134	COT 601	PULL BOX SIZE III	EA	4
135	COT 602	2" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	225
136	COT 602	3" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	320
137	COT 602	3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL	LF	10
138	COT 602	4" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL	LF	260
139	COT 602	2-3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE ID	LF	1,355
140	COT 603	30" SIGNAL FOOTING S-30/36	EA	5
141	COT 603	36" SIGNAL FOOTING S-42/50	EA	3
142	COT 603	24" PEDESTAL FOOTING F-1	EA	23
143	COT 606	PRE-EMPTION CABLE	LF	2,055
144	COT 606	INFRARED PRE-EMPTION DETECTOR	EA	8
145	COT 606	PRE-EMPTION PHASE SELECTOR	EA	4
146	COT 607	SERVICE TO SIGNAL STANDARD	EA	2
147	COT 608	GROUND SIGN	SF	25
148	COT 608	OVERHEAD SIGN	SF	320
149	COT 610	TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY	EA	3
150	COT 611	2#14 SHIELDED ELECTRICAL CONDUCTOR	LF	3,860
151	COT 611	4#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	485
152	COT 611	20#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	1,680
153	COT 611	GREEN #12 THHN ELECTRICAL CONDUCTOR	LF	4,425
154	COT 611	2#12 UF ELECTRICAL CONDUCTOR WITH GROUND	LF	2,810
155	COT 611	7#14 TRAFFIC SIGNAL ELECTRICAL CABLE	LF	4,585
156	COT 611	GREEN #6 THHN ELECTRICAL CONDUCTOR	LF	1,490
157	COT 611	CAT 6 ETHERNET CABLE	LF	705
158	COT 612	CABINET BASE, APRON AND GUARD	EA	4
159	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON STATION AND SIGN	EA	28
160	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONTROL CARD/UNIT	EA	4
161	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON 'CONFIG/PROGRAMMING DEVICE	EA	3
162	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#36)	EA	20
163	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#54L)	EA	2
164	COT 614	LED 4 SECTION TRAFFIC SIGNAL HEAD (#13L)(FLTYA)	EA	8
165	COT 614	LED ICC PEDESTRIAN HEAD (#33)	EA	28
166	COT 615	BASE COVERS	EA	9
167	COT 617	36' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	4
168	COT 617	42' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	2
169	COT 617	42' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM EXT	EA	1
170	COT 617	10' PEDESTAL POLE	EA	23
171	COT 619	TEMP SIGNAL SPAN	EA	1
172	COT 619	TEMP SIGNAL POLE	EA	1
173	COT 619	TEMP SIGNAL CABINET	EA	1
174	COT 619	TEMP SIGNAL SERVICE	EA	1
175	COT 620	VIDEO DETECTION SYSTEM	EA	3
176	COT 621	ROADWAY LUMINAIRE	EA	8
177	COT 622	WIRELESS TRAFFIC SIGNAL COMMUNICATIONS SYSTEM	EA	3
178	COT 623	BATTERY BACKUP SYSTEM	EA	2
179	COT 625	REMOVAL OF TRAFFIC ITEMS	EA	3
180	COT 626	TRAFFIC SIGNAL MAINTENANCE	HR	1
181	COT 626	SIGNAL MODIFICATIONS FOR LANE CLOSURES (PER SIGNALIZED INTERSECT	EA	1
182	SPECIAL	TRAFFIC ITEMS	LSUM	1
183	COT 603	48" SIGNAL FOOTINGS-54/58	EA	1
184	COT 617	54' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM. EXT	EA	1
185	COT 617	30' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM. EXT	EA	1

TRAFFIC PAY QUANTITIES

Utica Ave. at BAXY, 12th St. and 11th St.

ITEM	SPEC	DESCRIPTION	UNIT	BAXY	12TH	11TH	TOTAL
133	COT 601	PULL BOX SIZE I	EA	6	3	3	12
134	COT 601	PULL BOX SIZE II	EA	2	1	1	4
135	COT 602	2" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	80	70	75	225
136	COT 602	3" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	LF	170	70	80	320
137	COT 602	3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	(80) LF	10			10
138	COT 602	4" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	LF	260			260
139	COT 602	2-3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	LF	735	300	320	1355
140	COT 603	30" SIGNAL FOOTING S-30/36	(20) EA	2		3	5
141	COT 603	36" SIGNAL FOOTING S-42/50	(20) EA	2		1	3
142	COT 603	24" PEDESTAL FOOTING F-1	(20) EA	9	7	7	23
143	COT 606	PRE-EMPTION CABLE	(93) LF	1350		705	2055
144	COT 606	INFRARED PRE-EMPTION DETECTOR	(93) EA	4		4	8
145	COT 606	PRE-EMPTION PHASE SELECTOR	(93) EA	2		2	4
146	COT 607	SERVICE TO SIGNAL STANDARD	(1) EA		1	1	2
147	COT 608	GROUND SIGN	(96) SF	25.0			25.0
148	COT 608	OVERHEAD SIGN	SF	162.0	69.0	89.0	320.0
149	COT 610	TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY (COT 610)(2,10,11) (91,92,93,94)	EA	1	1	1	3
150	COT 611	2#14 SHIELDED ELECTRICAL CONDUCTOR	(95) LF	1780	920	1160	3860
151	COT 611	#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(95) LF	200	135	150	485
152	COT 611	20#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(95) LF	820	410	450	1680
153	COT 611	GREEN #12 THIN ELECTRICAL CONDUCTOR	(95) LF	2070	1055	1300	4425
154	COT 611	2#12 UF ELECTRICAL CONDUCTOR WITH GROUND	(95) LF	1145	320	1345	2810
155	COT 611	7#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(95) LF	2200	935	1450	4585
156	COT 611	GREEN #6 THIN ELECTRICAL CONDUCTOR	(95) LF	810	325	355	1490
157	COT 611	CAT 6 ETHERNET CABLE	(17) LF	260	210	235	705
158	COT 612	CABINET BASE, APRON AND GUARD	EA	2	1	1	4
159	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON STATION AND SIGN	(81,82) EA	12	8	8	28
160	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONTROL CARD/UNIT	(81,82) EA	2	1	1	4
161	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONFIG/PROGRAMMING DEVICE	EA	1	1	1	3
162	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#36)	(19,22) EA	12		8	20
163	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#54L)	(19,22) EA	2			2
164	COT 614	LED 4 SECTION TRAFFIC SIGNAL HEAD (#13L)(FLTYA)	(19,22) EA	2	2	4	8
165	COT 614	LED ICC PEDESTRIAN HEAD (#33)	(83) EA	12	8	8	28
166	COT 615	BASE COVERS	EA	5		4	9
167	COT 617	36" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	1		3	4
168	COT 617	42" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	EA	1		1	2
169	COT 617	42" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM EXT	EA	1			1
170	COT 617	10" PEDESTAL POLE	EA	9	7	7	23
171	COT 619	TEMP SIGNAL SPAN	(80) EA	1			1
172	COT 619	TEMP SIGNAL POLE	(80) EA	1			1
173	COT 619	TEMP SIGNAL CABINET	(80) EA	1			1
174	COT 619	TEMP SIGNAL SERVICE	(80) EA	1			1
175	COT 620	VIDEO DETECTION SYSTEM	(13,92) EA	1	1	1	3
176	COT 621	ROADWAY LUMINAIRE	(3) EA	3	1	4	8
177	COT 622	WIRELESS TRAFFIC SIGNAL COMMUNICATIONS SYSTEM	(16,24) EA	1	1	1	3
178	COT 623	BATTERY BACKUP SYSTEM	(23) EA	1		1	2
179	COT 625	REMOVAL OF TRAFFIC ITEMS	(4,8) EA	1	1	1	3
180	COT 626	TRAFFIC SIGNAL MAINTENANCE	(80) HR	1			1
181	COT 626	SIGNAL MODIFICATIONS FOR LANE CLOSURES (PER SIGNALIZED INTERSECTION)	(80) EA	1			1
182	SPECIAL	TRAFFIC ITEMS	(19,22,97) LSUM	1			1
183	COT 603	48" SIGNAL FOOTING S-54/58	(20) EA	1			1
184	COT 617	54" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM. EXT	EA	1			1
185	COT 617	30" MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM. EXT	EA	1			1

TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES

- (A) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL IN A PROPER WORKING CONDITION DURING CONSTRUCTION, AS DIRECTED BY THE TRAFFIC ENGINEER, AND FOR FOLLOWING THE REQUIREMENTS OF COT SPEC 626 - TRAFFIC SIGNAL CONSTRUCTION AND OPERATION. ALL TRAFFIC MATERIALS SHALL MEET THE REQUIREMENTS OF COT SPEC 627 - PREQUALIFICATION FOR TRAFFIC OPERATIONS MATERIALS, OR AS DIRECTED BY THE TRAFFIC ENGINEER. CONTRACTORS SHALL MEET THE REQUIREMENTS OF COT SPEC 628 - SIGNAL AND LIGHTING PROJECT CONTRACTOR EXPERIENCE REQUIREMENTS.
 - (B) THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR ELECTRICAL INSPECTION ON ALL SIGNAL AND LIGHTING WORK PER COT SPEC 626 - TRAFFIC SIGNAL CONSTRUCTION AND OPERATION.
USE THE FOLLOWING ADDRESS(ES) FOR THE ELECTRICAL PERMIT:
702 E 11TH ST S (TRAFFIC SIGNAL)
1200 S UTICA AVE (TRAFFIC SIGNAL)
1352 S UTICA AVE (TRAFFIC SIGNAL)
 - (C) ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPEC 625 - REMOVAL OF TRAFFIC ITEMS.
 - (F) THIS PROJECT HAS BEEN DESIGNED AND IS TO BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF THE 2022 VERSION OF THE CITY OF TULSA TRAFFIC OPERATIONS STANDARDS AND SPECIFICATIONS.
- TRAFFIC OPERATIONS PAY ITEM NOTES**
- (1) THE INSTALLED SERVICE SHALL BE FULLY OPERATIONAL AND ANY COSTS CHARGED BY THE UTILITY COMPANY FOR THE SERVICE INSTALLATION SHALL BE PAID BY THE CONTRACTOR AND IS INCLUDED IN THIS PAY ITEM.
 - (2) THE CONTRACTOR SHALL DELIVER THE SIGNAL CABINET FULLY WIRED AND READY FOR INSTALLATION TO THE COT TRAFFIC OPERATIONS DIVISION FOR INSPECTION AND APPROVAL PRIOR TO INSTALLATION. COT WILL NOTIFY THE CONTRACTOR OF ANY DEFICIENCIES OR APPROVE THE CABINET WITHIN TWO WEEKS PER COT SPECIFICATION 610 FOR TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY.
 - (3) THE CONTRACTOR SHALL PROVIDE LED LUMINAIRES APPROVED BY THE CITY OF TULSA TRAFFIC ENGINEER. THIS PAY ITEM INCLUDES THE LUMINAIRE AND ALL RELATED EQUIPMENT SUCH AS AMERICAN ELECTRIC LIGHTING ATB SERIES LED LUMINAIRES OR APPROVED EQUIVALENT 120V PHOTOCELL, INLINE FUSE HOLDER AND 5 AMP KTK FUSE, ETC.
 - (4) THIS PAY ITEM INCLUDES THE REMOVAL AND DELIVERY OF THE FOLLOWING EQUIPMENT, WHICH IS TO REMAIN THE PROPERTY OF THE CITY OF TULSA, TO THE CITY OF TULSA TRAFFIC OPERATIONS YARD AT 3801 N HARVARD AVE: MULTI-SIDED GALVANIZED TRAFFIC SIGNAL POLES, SIGNAL HEADS, PEDESTRIAN HEADS AND PUSH BUTTONS, BACK PLATES, CONTROLLER CABINET ASSEMBLY, CABINET GUARD, UNDAMAGED PULL BOX LIDS, MAST ARM SIGNS, ASTRO-BRACKETS, SPAN WIRE EQUIPMENT, AND ANY OTHER TRAFFIC SIGNAL EQUIPMENT REMOVED EXCEPT FOR THE PULL BOXES, CONDUIT, AND WIRE WHICH SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE PRICE BID SHALL INCLUDE THE REMOVAL OF ALL FOOTINGS BELOW GROUND LEVEL OR AS DIRECTED BY THE ENGINEER, FOOTINGS, GREEN MAST ARM POLES, AND ALL OTHER SIGNAL POLES OTHER THAN THE MULTI-SIDED POLES, ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.
 - (8) CONTRACTOR SHALL NOTIFY CITY OF TULSA AT LEAST TWO BUSINESS DAYS PRIOR TO REMOVAL OF SIGNAL EQUIPMENT TO COORDINATE REMOVAL OF ALL SIGNAL COMMUNICATIONS EQUIPMENT. THE CITY OF TULSA SHALL REMOVE AND REINSTALL THE COMMUNICATIONS EQUIPMENT.
 - (10) THE TRAFFIC SIGNAL CONTROLLER PROVIDED SHALL BE AN ECONOLITE ATC COBALT CONTROLLER IN A 332S SIGNAL CABINET.
THE CONFLICT MONITOR SHALL BE AN 18 CHANNEL ED2018ECLIP OR APPROVED EQUAL. AN ETHERNET PORT SHALL BE PROVIDED ON THE FRONT PANEL. THE ETHERNET PORT SHALL BE ELECTRICALLY ISOLATED FROM THE MMU ELECTRONICS AND SHALL PROVIDE A MINIMUM OF 1500 VRMS ISOLATION. THE CONNECTOR SHALL BE AN RJ-45 EIGHT PIN CONNECTOR. AN HTML BASED CAPABILITY SHALL BE PROVIDED IN THE MONITOR TO CONFIGURE THE NETWORK PARAMETERS OF THE MMU ETHERNET PORT USING A STANDARD HTML BROWSER. ALL DISPLAY INDICATORS SHALL BE MOUNTED ON THE FRONT PANEL OF THE SIGNAL MONITOR AND SHALL BE WATER CLEAR, T-1 PACKAGE, SUPER BRIGHT TYPE LEDS. ALL FAULT LEDS SHALL BE RED EXCEPT THE POWER INDICATOR WHICH SHALL BE GREEN. A SEPARATE RED, YELLOW AND GREEN INDICATOR SHALL BE PROVIDED FOR EACH CHANNEL.
THE CABINET SHALL INCLUDE TWO 19" RACK SHELVES, CHATSWORTH PRODUCTS PART NUMBER 10768-701, OR APPROVED EQUAL, IN ADDITION TO WHAT IS OUTLINED IN COT SPECIFICATION 610. RACKS SHALL BE DESIGNED TO HOLD SMALL PERIPHERAL EQUIPMENT IN A CENTRAL LOCATION. EACH SHELF TYPICALLY HOLDS TWO UNITS AND ALLOWS A CONVENIENT CABLE RUN DOWN THE INSIDE OF THE RACK CHANNEL. THE RACK SHALL HOLD EQUIPMENT UP TO 17.35" WIDE BY 9.82" DEEP AND MADE OF STRONG, LIGHTWEIGHT ALUMINUM THAT CAN SUPPORT UP TO 50 LBS.
 - (11) THE CABINET PROVIDED SHALL BE A STRETCH CABINET MEETING THE CABINET AND DOOR HEIGHT SPECIFICATIONS OF A MCCANN 332S CABINET. ALL OTHER DIMENSIONS SHALL MEET CURRENT CITY OF TULSA STANDARDS AND SPECIFICATIONS.
 - (13) THE VIDEO CAMERAS PROVIDED SHALL MEET THE SPECIFICATIONS FOR THE TERIS VANTAGE NEXT CAMERAS OR APPROVED EQUAL. THE VIDEO CAMERAS PROVIDED SHALL DETECT VEHICLES, BICYCLES, AND MOTORCYCLES ON A ROADWAY BY PROCESSING VIDEO IMAGES THAT PROVIDE VEHICLE PRESENCE, TRAFFIC FLOW DATA, EVENT ALARMS, AND FULL-MOTION VIDEO FOR REAL-TIME TRAFFIC CONTROL AND MANAGEMENT SYSTEMS. VIDEO DETECTION SYSTEMS MATERIALS FOR THIS BID SHALL ALSO MEET THE FOLLOWING REQUIREMENTS:
1. VIDEO DETECTION SYSTEMS SHALL INCLUDE ALL MATERIALS INCLUDING VIDEO CAMERAS, VIDEO CARDS, COMMUNICATIONS CARDS, CABLEING, AND OTHER MATERIALS NECESSARY TO MAKE VIDEO DETECTION FULLY OPERATIONAL AT AN INTERSECTION.
2. VIDEO DETECTION CAMERAS SHALL USE A CAT 6 ETHERNET CABLE, NOT COAXIAL.
3. VIDEO DETECTION SYSTEM SHALL ALSO BE IP-ADDRESSABLE.
 - (16) THE LOCATION OF THE COMMUNICATIONS EQUIPMENT SHOWN IS FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF TULSA TO DETERMINE WHICH POLE THE CAT 6 CABLE SHOULD BE PULLED TO DURING CONSTRUCTION.
 - (17) ETHERNET CABLE USED FOR WIRELESS SIGNAL COMMUNICATIONS SHALL BE INDUSTRIAL GRADE SHIELDED CAT 6 CABLE RATED FOR OUTDOOR USE, UNLESS OTHERWISE SPECIFIED IN THE PROJECT PLANS. SHIELDING SHALL BE RESER RATED, POLYOLEFIN INSULATION SHELD BONDED TO AN OIL RESISTANT AND SUN RESISTANT PVC JACKET.
THIS PAY ITEM SHALL INCLUDE CAT 6 CABLE INSTALLED FROM THE CONTROLLER TO THE SIGNAL POLE. EXCESS CABLE SHOULD BE STORED IN THE HANDHOLE OF THE SIGNAL POLE AND IN PULL BOXES. USE CAUTION WHEN WORKING WITH CAT 6 CABLE NOT TO BEND OR CRIMP THE CABLE.
 - (19) HINGES SHALL BE LOCATED TO THE LEFT SIDE FOR 3-SECTION AND 4-SECTION SIGNAL HEADS AND TOWARD THE OUTSIDE EDGES FOR A 5-SECTION SIGNAL HEAD.
 - (20) POLE FOUNDATIONS SHALL BE CONSTRUCTED ACCORDING TO THE APPLICABLE REQUIREMENTS OF ODOT STANDARD SPECIFICATIONS FOR DRILLED SHAFT FOUNDATIONS AS DIRECTED BY THE TRAFFIC ENGINEER.
 - (22) THIS PAY ITEM SHALL INCLUDE 22 3-SECTION BACKPLATES AND 10 4-SECTION BACKPLATES. ALL BACKPLATES SHALL BE ALUMINUM WITH A DURABLE, FACTORY-APPLIED, NON-REFLECTIVE BLACK FINISH (POWDER COATED, BAKED ENAMEL, OR OTHER FINISH AS APPROVED BY THE TRAFFIC ENGINEER) WITH LOUVERS IN THE BACKPLATE.
BACKPLATES SHALL HAVE 2" REFLECTIVE FLUORESCENT YELLOW TAPE APPLIED TO THE PERIMETER. THE TAPE SHALL BE TYPE K.

- (23) THE BATTERY BACKUP SYSTEM SHALL BE ECONOLITE ZX2000-48 SUPER CAPACITOR BATTERY MODULES AND DBLXU-48 SERIES DOUBLE CONVERSION UPS.
 - (24) WIRELESS COMMUNICATIONS SYSTEM SHALL COMPLY WITH THE LATEST CITY OF TULSA REQUIREMENTS AND SPECIFICATIONS.
 - (80) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
 - (81) THE NORTHSOUTH PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DONT WALK AND STEADY DONT WALK-
"WAIT TO CROSS 11TH STREET AT UTICA AVENUE"
DURING WALK-
"11TH STREET - WALK SIGN IS ON TO CROSS 11TH STREET"
THE EASTWEST PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DONT WALK AND STEADY DONT WALK-
"WAIT TO CROSS UTICA AVENUE AT 11TH STREET"
DURING WALK-
"UTICA AVENUE - WALK SIGN IS ON TO CROSS UTICA AVENUE"
 - (82) THE NORTHSOUTH PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DONT WALK AND STEADY DONT WALK-
"WAIT TO CROSS 12TH STREET AT UTICA AVENUE"
DURING WALK-
"12TH STREET - WALK SIGN IS ON TO CROSS 12TH STREET"
THE EASTWEST PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DONT WALK AND STEADY DONT WALK-
"WAIT TO CROSS UTICA AVENUE AT 12TH STREET"
DURING WALK-
"UTICA AVENUE - WALK SIGN IS ON TO CROSS UTICA AVENUE"
 - (83) THIS PAY ITEM INCLUDES RELOCATING ONE PED HEAD ON THE SOUTHWEST CORNER AND ONE PED HEAD ON THE SOUTHEAST CORNER OF 14TH STREET.
 - (91) THE DIAMOND INTERCHANGE JUNCTION CABINET SHALL BE A 336S CABINET. THE INTERIOR SHALL BE POWDER COATED WHITE. IT SHALL HAVE A 12-POSITION CARD RACK WIRED FOR RACK MOUNT, VIDEO DETECTION VIEWCOM AND 3M OPTICOM 752 CARD. IT SHALL HAVE A 24-VOLT STAND ALONE POWER SUPPLY FOR CARD RACK, AND RELAY POWER. IT SHALL HAVE A RELAY PANEL WITH EIGHT 24-VOLT COIL RELAYS. THE RELAYS SHALL BE STRUTHER DUNN A314XB48P-24VDC OR EQUAL.
THE CABINET SHALL HAVE A VIDEO FILTER/ POWER PANEL. THE VIDEO FILTERS SHALL BE INNOVATIVE TECHNOLOGIES VIDEO FILTER COAX-BNC-1.5GHZ. IT SHALL HAVE A DUPLEX OUTLET WITH GFI FOR AC POWER. IT SHALL HAVE TERMINAL BLOCKS FOR FIELD WIRING CONNECTIONS, PEDESTRIAN PUSH BUTTONS, SIGNAL HEADS, AND PEDESTRIAN HEADS. IT SHALL HAVE A 20 AMP AC CIRCUIT BREAKER FOR AUXILIARY AND A 30 AMP AC CIRCUIT BREAKER FOR MAIN. IT SHALL HAVE AN INNOVATIVE TECHNOLOGIES HS-30A FOR POWER FILTERING. THE CABINET SHALL BE WIRED FOR 3M OPTICOM GREEN SENSORS AND SHALL HAVE AN INTERFACE PANEL FOR 3M OPTICOM DETECTOR HOOKUP.
THE CABINET SHALL HAVE A FAN, AIR FILTER, FAN THERMOSTAT, AND CABINET LIGHT. THE EXTERIOR SHALL BE ANODIZED ALUMINUM FINISH OR CLEAR POWDER COAT. IT SHALL BE INSTALLED ON AN ALUMINUM BASE THAT IS 18 INCHES TALL.
SEE ADDITIONAL CABINET DETAILS ON CABINET MODIFICATION DETAILS SHEET.
 - (92) A SEPARATE VIDEO PROCESSOR AND RELATED EQUIPMENT SHALL BE INSTALLED IN THE JUNCTION CABINET SO THAT ONLY THE OUTPUT IS TRANSMITTED BACK TO THE CONTROL CABINET.
 - (93) ALL OPTICOM DETECTOR SIGNALS SHALL BE TRANSMITTED TO THE CONTROL CABINET WITHOUT ANY INTERMEDIATE PROCESSING.
 - (94) THE JUNCTION CABINET SHALL BE FURNISHED AS PART OF THE "TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY".
 - (95) CONTRACTOR IS TO DETERMINE IF LARGER GAUGE CONDUCTORS ARE REQUIRED TO CROSS UNDER THE HIGHWAY AND SERVE THE NORTH INTERSECTION DUE TO THE DISTANCE INVOLVED. IF LARGER GAUGE CONDUCTORS ARE REQUIRED THE ADDITIONAL COSTS TO BE INCLUDED IN THE CABLE PAY ITEMS INCLUDED IN THE PLANS.
 - (96) THIS PAY ITEM INCLUDES TWO R3-7R (30"x30") AND TWO R3-8L (30"x30") ON 14TH STREET WEST OF UTICA AVENUE. REUSE EXISTING POSTS.
 - (97) THIS PAY ITEM INCLUDES TWO S-16L TRAFFIC SIGNAL HEADS TO BE USED AT THE INTERSECTIONS OF 14TH STREET AND 13TH PLACE.
- (COT 610) THE CONTROLLER CABINET DOORS SHALL BE EQUIPPED WITH A CL-TC10EN2 CYBERLOCK CYLINDER AND EITHER A 15481RS CCL TRAFFIC CABINET LOCK RH, OR A 15481LS CCL TRAFFIC CABINET LOCK LH. THE CONTRACTOR WILL BE REQUIRED TO PURCHASE A CYBERKEY BLUE 3 THAT SHALL BE PROGRAMMED BY TRAFFIC OPERATIONS AT 4015 N HARVARD AVE, TULSA, OK 74115.

9/30/2025 G:\Projects\02 Tulsa Office Projects\10-804 13th Pl 4th St. & Utica Signal Mod - Tulsa (See 10-826 & 10-6220)\CAD\QUANT.dgn

PROJECT NO. 144017 w and ax
TRAFFIC SIGNAL QUANTITIES & NOTES
14th ST., 13th PL., 12th ST. & 11th ST.
at S. UTICA AVE.
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Esther M. Shaw-Smith
ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-27
9-30-25
DATE



REVISION	BY	DATE	PLAN SCALE	DRAWN	CAL	9/30/2025	APPROVED
ADDENDUM NO. 1	TEC	09/25/25	1" = NA	DESIGNED	EMS	9/30/2025	
ADDENDUM NO. 2	TEC	09/30/25	1" = NA	SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.			
			1" = NA	FIELD MGR.			
			VERTICAL:	RECOMMENDED			
			1" = NA	DESIGN MANAGER			
			FILE:	DRAWING:			
			ATLAS PAGE NO:				

Esther M. Shaw-Smith
CITY ENGINEER