

UTILITY COORDINATION		
UTILITY	CONTACT	PHONE NO.
CITY OF TULSA	TONY GLYNN	918-598-9245
AEP/PSO	LONNY HICKS	918-250-6211
ONG	CODY YOST	918-831-8292
AT&T	ALFRED NICHOLS	539-444-1069
COX COMMUNICATIONS	JASON HOLT	918-830-7238
MTA	BILL NORMAN	918-398-1424
COT FIBER OPTIC	ANDREW MAGGARD	918-576-5197

SYMBOL LEGEND

	<i>EM</i>	- Electric Meter
	<i>EB</i>	- Electric Box
	<i>ET</i>	- Electric Transformer
	<i>FH</i>	- Fire Hydrant
	<i>FP</i>	- Flagpole
	<i>GM</i>	- Gas Meter
	<i>GV</i>	- Gas Valve
	<i>GUY</i>	- Guy Anchor
	<i>ICV</i>	- Irrigation Control Valve
	<i>JB</i>	- Junction Box
	<i>LP</i>	- Light Pole
	<i>MB</i>	- Mailbox
	<i>PP</i>	- Power Pole
	<i>SN</i>	- Sign
	<i>SSCO</i>	- Sanitary Sewer Cleanout
	<i>SSMH</i>	- Sanitary Sewer Manhole
	<i>SWMH</i>	- Storm Water Manhole
	<i>SH</i>	- Sprinkler Head
	<i>TS</i>	- Traffic Signal
	<i>TSB</i>	- Traffic Signal Box
	<i>TSJB</i>	- Traffic Signal Junction Box
	<i>TPED</i>	- Telephone Pedestal
	<i>WM</i>	- Water Meter
	<i>WV</i>	- Water Valve

	- Deciduous Tree
	- Coniferous Tree
	- Bush
	- Fence Line (All Types)
	- Overhead Electric
	- Underground Electric
	- Underground Cable Television
	- Underground Fiber Optic
	- Underground Telephone
	- Natural Gas Line
	- Stormwater Line
	- Sanitary Sewer Line
	- Water Line
	- Bench Mark
	- Survey Control Point Found
	- Survey Control Point Set
	- Type III Barricade w/ 2 Type "A" Lights
	- Drums w/ Type "C" Light

NOTE:
THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS.

DESIGN DATA
S. UTICA AVE.
E. 11TH ST. TO E. 15TH ST.
V=30 MPH
ADT(2015) = 10,900 VPD
ADT(2035) = 16,200 VPD
RIGID ESALs 2.9 X 10⁶
Kmin = 19 (CREST)
Kmin = 37 (SAG)

CITY OF TULSA PERMANENT BENCHMARKS
BENCH MARKS: SOURCE BENCH MARK IS C.O.T. BM#2016-13 5/8" REBAR w/ 3" ALUMINUM CAP FLUSH STAMPED "2016-13" SET IN CONCRETE POST 36" IN GROUND APPROX. 60' N. AND 30' W. OF INTERSECTION OF E. 22ND ST. AND S. UTICA AVE. NAVD 1988 ELEV=747.279
BENCH MARKS: SOURCE BENCH MARK IS C.O.T. BM#2016-17 5/8" REBAR w/ 3" ALUMINUM CAP FLUSH STAMPED "2016-17" SET IN CONCRETE POST 36" IN GROUND APPROX. 15' S. AND 45' W. OF INTERSECTION OF E. 8TH ST. AND S. UTICA AVE. NAVD 1988 ELEV=711.571
BENCH MARKS: SOURCE BENCH MARK IS C.O.T. BM#2016-18 5/8" REBAR w/ 3" ALUMINUM CAP FLUSH STAMPED "2016-18" SET IN CONCRETE POST 36" IN GROUND APPROX. 250' E. AND 35' S. OF INTERSECTION OF E. 11TH ST. AND S. LEWIS AVE. NAVD 1988 ELEV=746.030

IN ACCORDANCE WITH ODOT SECTION 105.14, THE CITY OF TULSA IS ANTICIPATING THAT THE SUCCESSFUL CONTRACTOR WILL UTILIZE THE APPROPRIATE MEANS AND METHODS TO ACCOMPLISH THE WORK DESCRIBED IN THE PLANS WITHOUT CAUSING COLLATERAL DAMAGE TO THE EXISTING INFRASTRUCTURE.

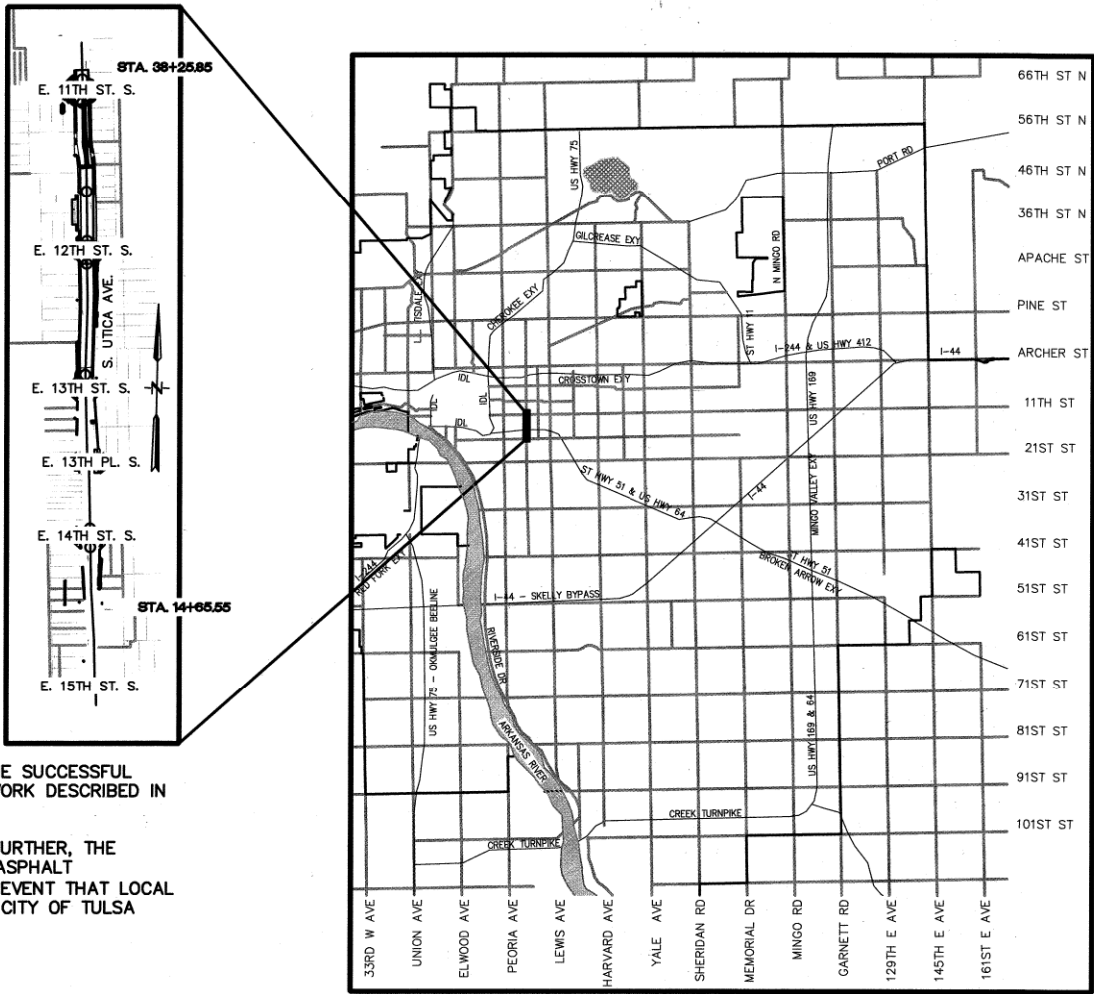
FURTHER, THE ANTICIPATED CONSTRUCTION PHASING WILL MINIMIZE THE TIME BETWEEN MILLING AND NEW ASPHALT PLACEMENT. LEAVING OPEN MILLED SECTIONS WILL BE AT THE CONTRACTOR'S RISK IN THE EVENT THAT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO PREVIOUSLY UNDAMAGED AREA. CURRENT CITY OF TULSA CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECT.

VERTICAL CONTROL
NAVD 1988

HORIZONTAL CONTROL
OKLAHOMA STATE PLANE COORDINATE SYSTEM
NAD 1983 (1993)

NOTE:
CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION *As Adopted by City of Tulsa.*

CITY OF TULSA, OKLAHOMA CONSTRUCTION PLANS FOR S. UTICA AVE. - 11th ST. TO 15th ST. and 11th ST. and UTICA AVE. INTERSECTION AND 12th ST. and UTICA AVE. INTERSECTION and WATERLINE REPLACEMENT PROJECT NO. 144017-W AND 144017-AX TMUA-W-16-33 AND TMUA-W 16-36 PUBLIC WORKS DEPARTMENT TULSA, OKLAHOMA



LOCATION MAP
N.T.S.

Note: Entire project is within the Corporate and City Limits of Tulsa, Oklahoma

11TH TO 15TH - PROJECT LENGTH = 2360.30 FT = 0.45 MILES
TOTAL PROJECT LENGTH = 2360.30 FT = 0.45 MILES

INDEX OF SHEETS

1	TITLE SHEET	26	STORMWATER MANAGEMENT PLAN
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CITY OF TULSA STANDARDS

102	PROJECT SIGN	608A	STREET NAME SIGNS
126	STANDARD SILT FENCE, AND CONSTRUCTION ENTRANCE	608B	TRAFFIC SIGNS
304	BEDDING DETAIL - RIGID PIPE	610A	332 CONTROLLER CABINET DETAIL
305	BEDDING DETAIL - SEMI RIGID PIPE	610B	336S CONTROLLER CABINET DETAIL
306	TRENCH DETAIL CONSTRUCTION ADJACENT TO ROADWAY	610C	CABINET WIRING
307	BORE/OPEN CUT CONDUIT DETAIL	611C	POLE WIRING DETAIL
308	COMBINATION AIR VACUUM / AIR RELIEF, CHECK VALVES AND VAULTS	612	CABINET GUARD DETAIL
309	FIRE HYDRANT	613	PEDESTAL AND MAST ARM POLE DETAILS
312	FRAME AND LID FOR WATER VAULTS	614A	TRAFFIC SIGNALS AND ACCESSORIES
313	VALVE BOX	614B	SIGNAL HEAD WIRING
315	THRUST BLOCKS AND TRENCH CONDITIONS	616	MAST ARM BRACKETS
401	MANHOLE GRADE ADJUSTMENT	617A	SIGNAL POLES AND MAST ARMS
409	CONCRETE MANHOLE COLLAR	617B	SIGNAL MAST ARM DETAILS
414	MANHOLE ADJUSTMENT RING	618	BONDING DIAGRAM
501	STANDARD METER SETTINGS FOR 5/8" X 3/4" AND 3/4" WATER SERVICE	706	COMMERCIAL DRIVEWAY
502	STANDARD METER SETTINGS FOR 1" WATER SERVICE	707	COMMERCIAL DRIVEWAY
503	STANDARD METER SETTINGS FOR 1-1/2" WATER SERVICE	713	PAVEMENT REMOVAL AND REPLACEMENT
504	STANDARD METER SETTINGS FOR 2" WATER SERVICE	714	PAVEMENT CUTS
506	METER CAN WITH RIM AND LID FOR 1-1/2" WATER METER INSTALLATION	725	STANDARD PAVEMENT PATCH AND REPAIR
507	METER CAN WITH RIM AND LID FOR 2" WATER METER INSTALLATION	730	STANDARD ASPHALT PAVEMENT CUT AND REPAIR
601	PULL BOX INSTALLATION	733	STANDARD PAVEMENT REHABILITATION FOR UTILITY CONSTRUCTION
602	CONDUIT INSTALLATION	751	STANDARD PIPE BEDDING DETAIL FOR STORM SEWER
603	SIGNAL POLE FOOTING DETAILS	753	STANDARD DETAIL FRAME AND LID FOR 4' AND 5' I.D. STORMWATER MANHOLE
606	EMERGENCY PRE-EMPTION DETAIL	754	STANDARD DETAIL FRAME AND LID FOR 6' AND 8' I.D. STORMWATER MANHOLE
607A	TRAFFIC SIGNAL SERVICE POLE AND SERVICE TO SIGNAL STANDARD	761	STANDARD INLETS AND GRATES
605A	STANDARD METER CAN WITH RIM AND LID FOR 5/8" X 3/4" AND 1" WATER METER INSTALLATION FOR UNPAVED AREAS	764	STANDARD REINFORCED CONCRETE STORMWATER INLETS
605B	STANDARD METER CAN WITH RIM AND LID FOR 5/8" X 3/4" AND 1" WATER METER INSTALLATION FOR PAVED AREAS	765	STANDARD STORMWATER FRAMES
		766	STANDARD STORMWATER GRATES
		769B	RECESSED CURB INLET DETAILS RCI 1096-10" THROAT
		775	STANDARD PRECAST CONCRETE STORMWATER MANHOLE
		790	STANDARD SIDEWALK RAMP

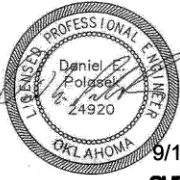
ODOT STANDARDS

ROADWAY		TRAFFIC	
TESCA-0	CSCD-6-2	PM1-1-03	SSA1-1-00
TSD-0	LECS-5-2	PM3-1-02	SSP1-1-02
TFL-0	LTU-5-1	PM5-1-00	TCS1-1-01
SSS-2-1		PM6-1-00	TCS2-1-00
ASCD6-1		RSD1-1-00	TCS4-1-01
		RSD2-1-00	TCS5-1-00
		SBS1-1-00	TCS6-1-02
		SBS2-1-00	TCS8-1-00
			TCS9-1-01
			TCS10-1-00
			TCS11-1-01
			TCS13-1-00
			TCS14-1-00
			TCS19-1-01
			TCS21-1-02

APPROVED BY: [Signature] 8/22/2025
CITY ENGINEER DATE

AUGUST 29, 2025
ADVERTISE DATE

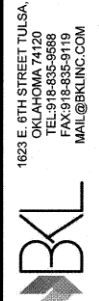
PREPARED BY:
DANIEL E. POLASEK, P.E.
PROJECT MANAGER
BKL, INCORPORATED



9/12/2024
SHEET 1 OF 77



S. UTICA AVE. - PROJ. No. 144017-W & -AX
TMUA-W 16-33 & TMUA-W 16-36



X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-PQ02.dwg, 240813 - 2:16 PM, DEP

GENERAL

- G-1: 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.
- G-2: MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
EXCLUDES MOBILIZATION FOR WATERLINE WORK.
- G-3: 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.
- G-4: 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.
- G-5: SHALL INCLUDE THREE ROW BARBED WIRE ON TOP OF FENCE AND GATES.
- G-6 ALL HOUSE NUMBERS SHALL BE REPLACED/ REESTABLISHED THROUGHOUT PROJECT LIMITS. COST TO BE INCLUDED IN URBAN RIGHT OF WAY RESTORATION. CONTRACTOR SHALL REESTABLISH DRAINS, ROOF DRAINS AND OTHER DRAINAGE THROUGH THE CURBS IN ACCORDANCE WITH CITY OF TULSA STANDARD 758. NO NEW CURB OUTLETS SHALL BE CONSTRUCTED WITHOUT APPROVAL OF THE ENGINEER.
- G-7 ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
- G-8 TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.
- G-9 CONTRACTOR SHALL COORDINATED HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.
- G-10 PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION

DRAINAGE

- D-1: THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS.752, 753, 754, 761, 762, 769A, 769B AND 775. *ALL WORK PERFORMED ON SANITARY SEWER MANHOLES SHALL MEET COT SPECIFICATION 418.*
- D-2: THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.
- D-3: NO MASONRY STRUCTURES SHALL BE CONSTRUCTED WITHIN THE RIGHT OF WAY.
- D-4: ADDITIONAL DEPTH IN A MANHOLE SHALL BE MEASURED FROM 6FT AS MEASURED FROM THE TOP OF RIM TO THE LOWEST FLOWLINE.
- D-5: ALL MANHOLES SHALL BE COMPLETE IN PLACE. THIS PAY ITEM INCLUDES FRAME, COVER, CONCRETE AND ALL OTHER INCIDENTALS REQUIRED FOR PLACEMENT.
- D6: THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS , EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
- D-7: INCLUDES THE COST REQUIRED TO MAKE CONNECTION AND REMOVAL OF EXISTING INLETS. THE COST OF PC CONCRETE CURB AND GUTTER THROUGH THE INLET, 5' EACH SIDE OF THE INLET, AND THE PC CONCRETE INLET APRON SHALL BE INCLUDED. GRATE AND FLOWLINE ELEVATIONS SHALL MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED IN THE PLANS.
- D-8: QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND STREET CURB INLETS AND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.
- D-9: ALL INLETS, COMPLETE IN PLACE, SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. THIS PAY ITEM INCLUDES ANY INLET FRAME(S), GRATE(S), HOOD(S) AND CONCRETE REQUIRED FOR COMPLETE INSTALLATION OF STRUCTURE PER THE CONSTRUCTION DOCUMENTS.
- D-10: ADDITIONAL DEPTH QUANTITIES SHALL BE MEASURED AND PAID FOR ALL INLETS EXCEEDING STANDARD DEPTH. STANDARD DEPTHS ARE AS FOLLOWS:
A) CAST IRON CURB INLET: 3.71 VF, MEASURED FROM CENTER ELEVATION OF LOWEST CAST IRON CURB TO FLOWLINE OF OUTLET PIPE.
B) RECESSED CURB INLET: 3.00 VF, MEASURED FROM TOP OF SLAB TO FLOWLINE OF OUTLET PIPE.
C) STANDARD DROP INLET: SEE STANDARD DETAILS 770, 771, 772 AND 773 - VARIES BASED ON PIPE SIZE, MEASURED FROM LOWEST ELEVATION OF INFLOW APRON TO FLOWLINE OF OUTLET PIPE.
- D-11: NOT USED
- D-12: REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE AND MANHOLES TO BE SUPPLIED WITH AN OMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE ALLOWED.
- D-13: THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED MOBILE CLOSED-CIRCUIT CAMERA SYSTEM.
- D-14: WHERE CORRUGATED POLYPROPYLENE PIPE CONNECTS TO REINFORCED CONCRETE STRUCTURES, CONTRACTOR SHALL ENSURE CONNECTIONS ARE WATER-TIGHT AND FULLY SEALED AGAINST SOIL INFILTRATION.
- D-15: WHERE QUICKSET FLOWABLE FILL IS USED TO BACKFILL AROUND CORRUGATED POLYPROPYLENE PIPE, THE CONTRACTOR SHALL UTILIZE AN ANCHORING SYSTEM APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. *ALL COSTS FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT APPROVED ANCHORING SYSTEM INCLUDED IN PRICE BID FOR CORRUGATED POLYPROPYLENE PIPE.*

TRAFFIC

- T-1: NOT USED
- 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 PAVEMENT MARKINGS SHALL BE:THERMOPLASTIC

EXTRUDED APPLIED THERMOPLASTIC. THERMOPLASTIC PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN PAVEMENT SURFACE TEMPERATURE EXCEEDS 55°F FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION WITH A MINIMUM 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.
- T-7: PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.
- T-8: NOT USED



REVISION		BY	DATE	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:	
				NA	DESIGNED BY:	DEP	7/24		
					SURVEY BY:	TLS	1/17		
				PROFILE SCALE	PROJ. MGR.	11/11/2024	9/20/24		
				HORIZONTAL:	LEAD ENGR.	5/5			
				NA	FIELD MGR.	2/24/25		CITY ENGINEER	
				VERTICAL:	RECOMMENDED:	199 8/25 HAS 8-25			
				NA	DESIGN MANAGER				
				FILE:	DRAWING:		DATE JULY 2024		
				ATLAS PAGE NO: 3		SHEET 03 OF 77 SHEETS			

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WATERLINE PAY QUANTITIES BASE BID					
					BASE BID
ITEM	SPEC. NO.	DESCRIPTION	NOTES	UNIT	QTY
75	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	1951
76	WS 303	MOBILIZATION		EA	1
77	ODOT 642	CONSTRUCTION STAKING <i>LÉVEL II</i>		EA	1
78	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	382
79	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	164
80	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	1245
81	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	2,8	EA	2
82	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	2,8	EA	16
83	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	2,8	EA	10
84	WS 312(F)	12"x12"x6" DI TEE (RJ)	2,8	EA	10
85	WS 312(G)	12"x12"x12" DI TEE (RJ)	2,8	EA	1
86	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	2,8	EA	1
87	WS 312(J)	6" SLEEVE DI (RJ)	2,8,12	EA	38
88	WS 312(K)	12" SLEEVE DI (RJ)	2,8,12	EA	36
89	WS 312(L)	12"x6" DI REDUCER (RJ)	2,8	EA	2
90	WS 315(B)	3/4" WATER SERVICE CONNECTION (LONG)	15,16	EA	1
91	WS 315(B)	3/4" WATER SERVICE CONNECTION (SHORT)	15,16	EA	3
92	WS 315(D)	3/4" WATER SERVICE METER CAN, LID, & RIM		EA	4
93	WS 317(A)	6" GATE VALVE (RJ)	8	EA	11
94	WS 317(B)	12" GATE VALVE (RJ)	8	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	21	EA	19
100	WS 318(B)	VALVE BOX EXTENSION	21	VF	19
101	WS 325	SODDING AND SEEDING	23	SY	18
102	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	31	SY	1046
103	COT 334	CONSTRUCTION AS-BUILTS	24,25,27	LSUM	1
104	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1
105	SPECIAL	OWNER ALLOWANCE	18	EA	5000

WATERLINE PAY QUANTITIES ADD ALT.					
					ADD ALT.
ITEM	SPEC. NO.	DESCRIPTION	NOTES	UNIT	QTY
106	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	1872
107	WS 307(A)	6" DIP, CL51 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	137
108	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	451
109	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	264
110	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	645
111	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	2,8	EA	2
112	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	2,8	EA	17
113	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	2,8	EA	10
114	WS 312(E)	6"x6"x6" DI TEE (RJ)	2,8	EA	2
115	WS 312(F)	12"x12"x6" DI TEE (RJ)	2,8	EA	3
116	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	2,8	EA	2
117	WS 312(J)	6" SLEEVE DI (RJ)	2,8,12	EA	33
118	WS 312(K)	12" SLEEVE DI (RJ)	2,8,12	EA	25
119	WS 312(L)	12"x6" DI REDUCER (RJ)	2,8	EA	3
120	WS 315(F)	1" WATER SERVICE CONNECTION (LONG)	15,16	EA	2
121	WS 315(F)	1" WATER SERVICE CONNECTION (SHORT)	15,16	EA	4
122	WS 315(H)	1" WATER SERVICE METER CAN, LID, & RIM		EA	6
123	WS 317(A)	6" GATE VALVE (RJ)	8	EA	9
124	WS 317(B)	12" GATE VALVE (RJ)	8	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	21	EA	13
130	WS 318(B)	VALVE BOX EXTENSION	21	VF	13
131	WS 325	SODDING AND SEEDING	23	SY	28
132	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	31	SY	867

ITEMS LISTED OR SHOWN ON 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.

WATER LINE PAY ITEM NOTES (05/15/2025):

- TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CITY OF TULSA. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH SECTION 109.3 OF THE GENERAL SPECIFICATIONS.
 - CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PLUGS WITH ADEQUATE BLOCKING OR RESTRAINTS, PLUS/RECOR CORPORATION STOPS, AS DIRECTED BY CITY TESTING PERSONNEL. THEN, ONCE TESTING, CHLORINATION AND FLUSHING BY CITY PERSONNEL IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISTING SYSTEM USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION.
 - TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY CITY PERSONNEL ON MAINS WHICH ARE PHYSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY CONNECTED TO THE EXISTING SYSTEM.
 - ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH, AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED IN UNIT PRICE BID FOR PIPE AND FITTINGS.
- CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- CONTRACTOR SHALL INSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN "RIGHT-OF-WAY CLEARING AND RESTORING". NO ADDITIONAL PAYMENT SHALL BE MADE.
- ALL HYDRANTS, VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO THE SOUTH YARD AT 2317 S JACKSON AVE. PAYMENT TO BE MADE UNDER RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS, ROOF DRAINS, AND FENCING DAMAGED IN THE ZONE OF CONSTRUCTION DURING THE COURSE OF CONSTRUCTION TO SATISFACTION OF THE PROPERTY OWNER. PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.
- COST OF ANY TEMPORARY LIVESTOCK FENCING AND POLES SHALL BE INCLUDED IN COST OF RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.
- ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR FITTINGS.
 - DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK, CLOW TUFGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASD BORES, ONLY US/PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED.
 - POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. LOCKING GASKETS NOT PERMITTED; SHOULD RJ PIPE BE SPECIFIED ON BORE, CASING IS REQUIRED.
 - HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT.

NO ADDITIONAL PAYMENT SHALL BE MADE.

- ALL WATER MAINS TO BE ABANDONED SHALL BE FILLED TO 100% OF THE ABANDONED PIPE VOLUME. FILL MATERIAL SHALL BE EITHER CELLULAR CONCRETE OR FLOWABLE FILL AS APPROVED BY THE ENGINEER. COST OF CONCRETE PLUGGING TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE.
- TRACER WIRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HDPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HDPE PIPE.
- DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONST SPEC 307.3 AND 307.4. COST WILL BE INCLUDED IN THE COST OF DUCTILE IRON PIPE.
- ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN THE COST OF PIPE. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SLEEVES. NO ADDITIONAL PAYMENT SHALL BE MADE.
- AT THE DIRECTION OF THE ENGINEER, CONTRACTOR SHALL FURNISH A "LICENSED AND BONDED PLUMBER", WHICH SHALL INCLUDE ALL COSTS OF LABOR, TOOLS, PERMIT FEES, AND EQUIPMENT TO REROUTE THE EXISTING CUSTOMER SERVICE ON CUSTOMER PROPERTY TO THE PROPOSED CUSTOMER METER CAN. COST SHALL NOT EXCEED AN ALLOWANCE OF \$1000 PER OCCURRENCE. MATERIALS COSTS SHALL BE INCLUDED UNDER THE UNIT PRICE FOR WATER SERVICE CONNECTION AND/OR WATER SERVICE LINE EXTENSION. NO ADDITIONAL PAYMENT SHALL BE MADE.
- CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½ -IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY. COST TO BE INCLUDED IN THE UNIT PRICE FOR EXCAVATION AND BACKFILL. NO ADDITIONAL PAYMENT SHALL BE MADE.
- WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR, AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORPORATION STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION, WITH THE EXCEPTION OF METER CANS, RIMS AND LIDS. NO ADDITIONAL PAYMENT SHALL BE MADE. METER CANS, LIDS AND RIMS SHALL BE PAID AS A SEPARATE BID ITEM.
 - A SHORT SERVICE SHALL BE ANY SERVICE LINE THAT IS 25-FEET OR LESS IN LENGTH. SHORT SERVICES DO NOT INCLUDE PAVEMENT REPLACEMENT.
 - LONG SERVICE SHALL BE ANY SERVICE LINE THAT IS GREATER THAN 25-FEET UP TO 80-FEET IN LENGTH. LONG SERVICES INCLUDE PAVEMENT REPLACEMENT AND/ OR COST TO BORE.
 - SERVICE LINES EXCEEDING THE ABOVE PARAMETERS WILL BE COMPENSATED FOR LINEAR FOOTAGE ABOVE AND BEYOND. COMPENSATION SHALL BE PAID AS "SERVICE LINES, EXTENSION", PER LF
- SERVICE LINES ON NON-ARTERIALS SHALL BE EITHER COPPER TUBING (TYPE K SOFT ANNEALED CONFORMING TO ASTM B 88) OR PEX TUBING (VIEGA PUREFLOW PEX BLUE 5306 OR UPONOR AQUA PEX 5206 BLUE CONFORMING TO ASTM F876/F877/F2023). PEX TUBING IS NOT PERMITTED WITHIN ARTERIAL RIGHT OF WAY. WHEN CONTRACTOR ELECTS TO USE PEX TUBING:
 - ¾-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM
 - 1-INCH WATER SERVICE CONNECTION SHALL USE 1¼-INCH PEX TUBING MINIMUM
- CONTRACTOR'S PLUMBER SHALL PROVIDE AN INFORMATIONAL BROCHURE TO THE PROPERTY OWNERS OUTLINING THE STEPS REQUIRED TO THOROUGHLY FLUSH THEIR WATERLINES AFTER CONNECTION TO THE NEW WATER MAIN. ALL COSTS TO PRODUCE AND DISTRIBUTE THE BROCHURE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. /

WATER LINE PAY ITEM NOTES (CONT.):

- THE "OWNER ALLOWANCE" CAN BE USED FOR VARIOUS WORK AND MISCELLANEOUS ITEMS NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING PROVISIONS: THE ALLOWANCE SHALL BE USED FOR COST OF MATERIALS, LABOR, INSTALLATION AND OVERHEAD AND PROFIT FOR ADDITIONAL WORK AND MISCELLANEOUS ITEMS THAT ARE NOT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND PLANS, AND NOT INCLUDED IN THE BID ITEMS OF THE CONTRACT.
 - THE ALLOWANCE SHALL BE USED ONLY AT THE DISCRETION OF THE CITY. ANY ALLOWANCE BALANCE REMAINING AT THE COMPLETION OF THE PROJECT WILL BE CREDITED BACK TO THE CITY ON THE FINAL APPLICATION FOR PAYMENT SUBMITTED BY THE CONTRACTOR.
 - WATER SERVICE LINES OF UNKNOWN OR UNEXPECTED SIZE.
 - THE CONTRACTOR SHALL PROVIDE, TO THE CITY, A WRITTEN REQUEST FOR THE USE OF ANY ALLOWANCE, WITH A SCHEDULE OF VALUES, AND ALL ASSOCIATED BACKUP INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK.
 - THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE ONLY AFTER RECEIVING A WRITTEN ORDER, FROM THE ENGINEER AND CITY AUTHORIZING SUCH WORK. PROCEEDING WITH WORK IN THE ALLOWANCE WITHOUT A WRITTEN ORDER FROM THE CITY WILL BE AT THE CONTRACTOR'S EXPENSE.
- WHERE PLANS IDENTIFY A 22.5-DEG OR 11.25-DEG VERTICAL OR HORIZONTAL BEND, HDPE WILL BE DEFLECTED PER MANUFACTURER'S MINIMUM ALLOWABLE BEND RADIUS.
- WHERE PLANS IDENTIFY A CROSS, HDPE WILL USE TWO (2) TEE'S. NO ADDITIONAL PAYMENT SHALL BE MADE.
- TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING IMPROVEMENTS. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTORS EXPENSE. STREETS, DRIVEWAYS AND ASSOCIATED ITEMS SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTORS EXPENSE. PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.
- SPOT ELEVATIONS ON THE MAIN WATER LINE RELATIVE TO FINISHED GRADE SHALL BE PROVIDED AT EACH 100-FT INTERVAL, COMPLETE WITH STATION AND OFFSET. IN ADDITION, ALL VALVES, FITTINGS, FIRE HYDRANTS (TOP OF NUT) AND OTHER MAJOR APPURTENANT ITEMS SHALL BE SHOWN WITH THE PROPER DESCRIPTION, STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM.
- SPOT ELEVATIONS ON WATER METER CANS, VAULTS, SHALL BE SHOWN WITH THE PROPER DESCRIPTION (METER TYPE, METER SIZE, METER NUMBER, SERVICE MATERIAL, SERVICE SIZE), STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM. UPON DISCOVERY OF A LEAD SERVICE, NOTIFICATION SHALL BE MADE TO WATER DISTRIBUTION AND WORK SHALL CEASE UNTIL RELEASED AT WHICH TIME ANY AND ALL SERVICE LINES LOCATED THAT ARE LEAD OR GALVANIZED ARE TO BE REPLACED WITH APPROVED MATERIALS.
- WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING HDPE WALL ANCHOR AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION, BACKFILLING, OR CONCRETE BLOCKING.
- PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED REQUIRED CONSTRUCTION AS-BUILT RECORDS.
- MARKER BALLS SHALL BE INSTALLED ABOVE ALL FITTINGS, BLIND FLANGES, SERVICE TAPS AND EVERY 100 FEET, IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET. COST OF MARKER BALLS SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE. MARKERS SHALL BE VIVAX WATER MARKER BALLS OR EQUAL THAT WORK WITH THE VIVAX VLOC3 -PRO RECEIVER AND LOC3-10TX TRANSMITTER.
- COST INCLUDES EBAA MEGASTOPS OR EQUAL, INSTALLED ON ALL PVC JOINTS THROUGH BORES TO PREVENT OVERBELLING.
- AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 701 - 702, SHALL BE PAID UNDER EXCAVATION AND BACKFILL.
- AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 703 - 704, SHALL BE PAID UNDER EXCAVATION AND BACKFILL.
- 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.
- EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
 - AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM.
 - IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY.
 - FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER.
 - 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.
- PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.



TMUA-W 16-33 & 16-36			
PAY QUANTITIES AND NOTES (WATER)(1)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
PLAN SCALE:	DRAWN BY: CGD 7/24	DESIGNED BY: DEP 7/24	APPROVED:
NA	SURVEY BY: TLS 1/17		
PROFILE SCALE:	PROJ. MGR. <i>M. G.</i> 7/2025	LEAD ENGR. <i>KEW</i> 7/2025	
HORIZONTAL:	NA	FIELD MGR. <i>KEW</i> 7/16	
VERTICAL:	NA	RECOMMENDED: <i>Shawn G. M.</i>	
		DESIGN MANAGER	
FILE:	DRAWING:		DATE JULY 2024
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WATERLINE CONSTRUCTION NOTES (05/15/2025):

1.

THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION.
2.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF TULSA ENGINEERING SERVICES DEPARTMENT.
3.

EXISTING SERVICE CONNECTIONS ARE TO BE KEPT IN SERVICE UNTIL CONNECTIONS TO NEW MAIN ARE MADE. ALL SERVICE LINE RECONNECTIONS SHALL BE MADE BY THE CONTRACTOR. SERVICE RECONNECTIONS SHALL BE INSTALLED AS PER CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS.
4.

MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON THE PLANS.
5.

CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF THE SAME TYPE AND VARIETY OR AS NOTED ON PLANS.
6.

CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
7.

CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER.
8.

WATER OPERATIONS SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16" AND LARGER). CONTRACTOR SHALL OPERATE ALL VALVES ON DISTRIBUTION MAINS (SMALLER THAN 16") WITH THE COORDINATION OF FIELD ENGINEERING AND WATER OPERATIONS AND IN THE PRESENCE OF A FIELD ENGINEERING INSPECTOR.
- A.

ATTEMPTS WILL BE MADE WITH ASSISTANCE FROM THE CONTRACTOR TO NOTIFY ALL AFFECTED CUSTOMERS 48 HOURS IN ADVANCE, PARTICULARLY IF COMMERCIAL OR INDUSTRIAL CUSTOMERS ARE INVOLVED. PRIOR TO SHUTDOWN, FIELD ENGINEERING WILL NOTIFY WATER OPERATIONS AT 918-596-9488, GIVING AN ESTIMATED DOWNTIME. WATER OPERATIONS WILL NOTIFY THE FIRE DEPARTMENT OF ALL FIRE HYDRANTS OUT OF SERVICE AND WHEN THEY ARE BACK IN SERVICE, BY STREET ADDRESS OR INTERSECTION.
- B.

WHERE COMMERCIAL, INDUSTRIAL, OR CRITICAL CUSTOMERS ARE AFFECTED, AND FOR ALL LINES 16-INCH AND LARGER IN SIZE, FIELD ENGINEERING WILL REQUEST WATER OPERATIONS TO SHUT DOWN THE MAIN. THERE WILL BE A MINIMUM OF 48-HOUR NOTICE TO WATER OPERATIONS.
9.

CONTRACTOR SHALL PROVIDE AT LEAST 48 HOUR NOTICE TO ALL RESIDENTS OR BUSINESSES AFFECTED BEFORE TURNING OFF ANY WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING DOOR HANGERS ON AFFECTED HOMES AND BUSINESSES.
10.

CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO LATER THAN 48 HOURS OR SOONER THAN 10 DAYS PRIOR TO COMMENCEMENT OF WORK (EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS). PHONE: 1-800-522-6543.
11.

LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. OPEN CUT STREET CROSSINGS REQUIRE AN APPROVED TRAFFIC CONTROL PLAN WITH TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT MUTCD REQUIREMENTS.
12.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ADJACENT TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE TRAFFIC ENGINEER.
13.

PRIOR TO PAVEMENT SAWING AND EXCAVATION NEAR SIGNALIZED INTERSECTION, CONTRACTOR SHALL CONTACT ENGINEERING SERVICES AND TRAFFIC OPERATIONS (918-596-9766) FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.
14.

CONSTRUCTION FOR ALL ENGINEERING SERVICE FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ).
15.

ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS OF TULSA.
16.

ANY CHANGES FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF TULSA FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.



7/14/2025

TMUA-W 16-33 & 16-36

PAY QUANTITIES AND NOTES (WATER)(2)

PROJ. 144017-W, 144017-AX

ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
			NA	DESIGNED BY:	DEP	7/24	
				SURVEY BY:	TLS	1/17	
			PROFILE SCALE:	PROJ. MGR.	WBM	7/2025	
			HORIZONTAL:	LEAD ENGR.	CEA	7/2025	
			NA	FIELD MGR.	AW	7/26	
			VERTICAL:	RECOMMENDED:	AW	7/26	
			NA	DESIGN MANAGER	AW	7/26	
			FILE:	DRAWING:			DATE JULY 2024
			ATLAS PAGE NO: 3				SHEET 05 OF 77 SHEETS

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 II	EA	6	3	3	12
134	COT 601	PULL BOX SIZE III	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	4
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	89.0	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	4#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)(FLT)(YA)	(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	2		4	6
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

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 STS (TRAFFIC SIGNAL)
1200 S UTICA AVE (TRAFFIC SIGNAL)
1352 S UTICA AVE (TRAFFIC SIGNAL)
- (D) 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 ASSEMBLIES.
- (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 ATBM SERIES LED LUMINAIRES OR APPROVED EQUIVALENT 120V PHOTOCCELL, 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 EDI 2018ECLIP 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 10758-701, 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 MCCAB 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 ITERIS 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:
- VIDEO DETECTION SYSTEMS SHALL INCLUDE ALL MATERIALS INCLUDING VIDEO CAMERAS, VIDEO CARDS, COMMUNICATIONS CARDS, CABLES, AND OTHER MATERIALS NECESSARY TO MAKE VIDEO DETECTION FULLY OPERATIONAL AT AN INTERSECTION.
 - VIDEO DETECTION CAMERAS SHALL USE A CAT 6 THERNET CABLE, NOT COAXIAL.
 - 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 RISER RATED, POLYOLEFIN INSULATION SHIELD 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 LOWERS IN THE BACKPLATE.

- BACKPLATES SHALL HAVE 2" REFLECTIVE FLUORESCENT YELLOW TAPE APPLIED TO THE PERIMETER. THE TAPE SHALL BE TYPE IX.

- (23) THE BATTERY BACKUP SYSTEM SHALL BE A ZINC BLUE 2 UPS PER CITY OF TULSA REQUIREMENTS.
- (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 DON'T WALK AND STEADY DON'T 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 DON'T WALK AND STEADY DON'T 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 DON'T WALK AND STEADY DON'T 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 DON'T WALK AND STEADY DON'T 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 SOUTH-WEST CORNER AND ONE PED HEAD ON THE SOUTH-EAST 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 A314BX48P-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 SENSING 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 COST IS 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-TC1 GEN 2 CYBERLOCK CYLINDER AND EITHER A15481RS CCL TRAFFIC CABINET LOCK RH, OR A15481LS 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.

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			
PLANS AND ESTIMATES PREPARED BY:		TRAFFIC ENGINEERING CONSULTANTS 6301 S. 60TH E. AVE., STE 100 TULSA, OK 74133 PHONE: 918-481-3484 FAX: 918-481-3163	
PLAN SCALE:		APPROVED:	
DRAWN		CAL	
DESIGNED		EMS	
SURVEY		09/06/24	
PROFILE SCALE:		PROJ. MGR.	
HORIZONTAL:		LEAD ENGR.	
FIELD MGR.		RECOMMENDED:	
DESIGN MANAGER		DATE:	
FILE:		DRAWING:	
ATLAS PAGE NO:		SHEET 6 OF 77 SHEETS	

Esther M. Shaw-Smith
ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25
9-6-24
DATE
Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-728-7721, Web: www.tecus.com

REGISTERED PROFESSIONAL ENGINEER
ESTHER M. SHAW-SMITH
9-6-24
23711
OKLAHOMA

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-NT01.dwg, 240813 - 2:16 PM, DEP

GENERAL CONSTRUCTION NOTES: (9/12/2016)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, ~~AS ADOPTED BY COT, AND THE CURRENT COT~~ ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCIVERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS , EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
18. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-~~9508~~ **9508** FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.
27. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.

GENERAL CONSTRUCTION NOTES CONT.:

29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
30. 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.
31. ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT STATIONING AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH CITY OF TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.
33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
34. ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS.
35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.

TRAFFIC CONTROL CONSTRUCTION NOTES:

ALL TRAFFIC CONTROL DEVICES, CONSTRUCTION SIGNAGE, BARRICADING, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL PLANS SHALL BE APPROVED BY FIELD ENGINEERING.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DEPARTMENTS 48 HOURS IN ADVANCE OF ALL STREET CLOSURES:

POLICE 596-9222
FIRE 596-9977
CITY OF TULSA, TRAFFIC OPERATIONS 596-9744
CITY OF TULSA, FIELD ENGINEERING 596-9404
EMSA 596-3043
MTTA 585-1195

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL CONSTRUCTION SIGNING AND BARRICADING INCLUDING BUT NOT LIMITED TO WASHING, REPLACING AND REPOSITIONING THE DEVICES. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL OTHER TRAFFIC CONTROL DEVICES WHERE DEEMED NECESSARY BY THE CITY OR THE ENGINEER, DUE TO CHANGING TRAFFIC CONDITIONS.

ROADSIDE HAZARDS SHALL BE COMPLETELY BARRICADED AROUND THE PERIMETER FOR THE SAFETY OF PEDESTRIANS AS WELL AS VEHICLES.

NO BARRICADES SHALL BE PLACED WITHIN THE ROADWAY UNTIL ALL ADVANCE SIGNING IS IN PLACE.

CHANNELING DEVICES SHALL EXTEND UPSTREAM OF TRAFFIC BEYOND THE HORIZONTAL OR VERTICAL CURVE UNTIL THE DEVICES ARE CLEARLY VISIBLE TO APPROACHING TRAFFIC.

ALL CHANNELING DEVICES, TYPE III BARRICADES, ETC., SHALL BE WEIGHTED DOWN WITH A NON-HAZARDOUS MATERIAL IF DEEMED NECESSARY AND SO DIRECTED BY THE CITY OR ENGINEER.

ALL ADVANCE WARNING SIGNS SHALL REQUIRE TYPE 'A' WARNING LIGHTS.

ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF TWO (2) TYPE "A" WARNING LIGHTS.

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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC. DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER 1-800-522-6543



9/12/2024



REVISION	BY	DATE

GENERAL CONSTRUCTION NOTES			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
	DESIGNED BY:	DEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE:	PROJ. MGR.	M/S	9/20/24
HORIZONTAL:	LEAD ENGR.		
VERTICAL:	FIELD MGR.		
	RECOMMENDED:		
	DESIGN MANAGER	HAS	8-25
FILE:	DRAWING:		
ATLAS PAGE NO: 3	DATE	JULY 2024	SHEET 07 OF 77 SHEETS

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-SM01.dwg, 240813 - 2:16 PM, DEP

ROADWAY PAY QUANTITIES										
ITEM	SPEC. NO.	DESCRIPTION	UNIT	QTY	SHEET 28	SHEET 29	SHEET 30	SHEET 31	SHEET 32	SHEET 33
1	201(A)	CLEARING AND GRUBBING	ACRE	0.25	0.04	0.03	0.06	0.04	0.04	0.04
2	202(A)	UNCLASSIFIED EXCAVATION	CY	1284	0	25	5	600	71	583
3	COT202	QUICK SET FLOWABLE FILL	CY	100	-	-	-	-	-	-
4	205(A)	TYPE A SALVAGED TOPSOIL	CY	203	32	28	45	30	35	33
5	220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1	-	-	-	-	-	-
6	230(A)	SOLID SLAB SODDING	SY	1216	191	168	268	180	211	198
7	303(A)	AGGREGATE BASE TYPE "A"	CY	419	15	15	44	86	136	123
8	310(B)	SUBGRADE METHOD B	SY	1254	44	45	131	257	409	368
9	325	SEPARATOR FABRIC	SY	1819	63	65	190	373	594	534
10	COT334	CONSTRUCTION AS-BUILT	LSUM	1	1	-	-	-	-	-
11	COT335	CONTRACTOR'S QUALITY CONTROL	LSUM	1	-	-	-	-	-	-
12	409	FABRIC REINFORCEMENT	SY	6445	0	0	1309	1793	2463	880
13	411(B)	SUPERPAVE, TYPE S3 (PG 70-28 OK)	TON	2166	0	0	440	602	828	296
14	411(C)	SUPERPAVE, TYPE S4 (PG 70-28 OK)	TON	723	0	0	147	201	276	99
15	411(D)	SUPERPAVE, TYPE S6 (PG 70-28 OK)	TON	344	-	-	57	100	138	49
16	412	COLD MILL PAVEMENT	SY	6445	0	0	1309	1793	2463	880
17	414(A)	P.C. CONCRETE PAVEMENT (PLACEMENT)	SY	3360	0	0	0	1801	0	1559
18	414(G)	P.C. CONCRETE FOR PAVEMENT	CY	837	0	0	0	448	0	389
19	COT 608(A)	GROUND SIGN	SF	311	93	82	43	23	11	4
20	COT 608(B)	1-1/2" SIGN POST	LF	8	2	-	4	-	-	-
21	COT 608(B)	1-3/4" SIGN POST	LF	423	113	86	46	46	28	18
22	COT 608(B)	2" SIGN POST	LF	413	30	22	12	13	8	5
23	608(B)	COMBINED CURB AND GUTTER (6" BARRIER)	LF	2417	124	128	372	731	558	504
24	610(A)	CONCRETE SIDEWALK 4"	SY	1988	158	156	418	477	488	291
25	610(A)	STAMPED CONCRETE SIDEWALK 4"	SY	222	0	20	69	92	41	0
26	610(B)	CONCRETE DRIVEWAY (6" H.E.S.)	SY	304	104	0	46	0	117	37
27	610(C)	6" CONCRETE DIVIDING STRIP	SY	2	-	-	-	2	-	-
28	610(I)	TACTILE WARNING DEVICE - NEW	SF	410	70	80	40	100	0	120
29	611(A)	(4' I.D.) MANHOLE, COMPLETE IN PLACE	EA	4	0	-	0	-	1	3
30	611(A)	(5' I.D.) MANHOLE, COMPLETE IN PLACE	EA	2	0	2	-	-	-	-
31	611(A)	(6' I.D.) MANHOLE, COMPLETE IN PLACE	EA	1	0	-	-	-	-	1
32	611(G)	INLET CICI DESIGN NO. 2, COMPLETE IN PLACE	EA	6	1	0	-	-	2	3
33	611(G)	INLET CICI DESIGN NO. 2 W/ AMH, COMPLETE IN PLACE	EA	1	-	-	-	-	-	1
34	611(G)	INLET CICI DESIGN NO. 2(D), COMPLETE IN PLACE	EA	1	-	1	-	-	-	-
35	611(G)	INLET CICI DESIGN NO. 3(A), COMPLETE IN PLACE	EA	1	1	-	-	-	-	-
36	611(G)	INLET CICI DESIGN NO. 4(B), COMPLETE IN PLACE	EA	2	-	2	-	-	-	-
37	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 2)	VF	1	1	-	-	-	-	-
38	611(H)	ADDITIONAL DEPTH IN INLET (DES. NO. 4)	VF	1	-	1	-	-	-	-
39	612(A)	MANHOLE ADJUSTED TO GRADE (PUBLIC)	EA	4	-	-	-	-	2	2
40	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LSUM	1	-	-	-	-	-	-
41	619(B)	REMOVAL OF EXISTING PAVEMENT	SY	1120	-	-	-	600	-	520
42	619(B)	REMOVAL OF CURB & GUTTER	LF	2386	124	128	352	720	558	504
43	619(B)	REMOVAL OF SIDEWALK	SY	2190	158	156	487	569	529	291
44	619(B)	REMOVAL OF DRIVEWAY	SY	267	104	-	46	-	117	-
45	641	MOBILIZATION	EA	1	-	-	-	-	-	-
46	642	CONSTRUCTION STAKING	EA	1	-	-	-	-	-	-
47	850(D)	(PL) REMOVE & RESET EXISTING SIGNS	EA	9	1	-	6	-	1	1
48	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(4")	LF	9601	2456	1134	1708	1561	1517	1225
49	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(8")	LF	331	37	0	109	138	47	0
50	855(A)	TRAFFIC STRIPE (THERMOPLASTIC)(24")	LF	1752	457	384	180	394	0	337
51	855(B)	TRAFFIC STRIPE (THERMOPLASTIC. ARROWS)	EA	51	14	15	5	6	5	6
52	857(C)	REMOVABLE PAVEMENT MARKING TAPE	LF	10000	-	-	-	-	-	-
53	857(F)	PAVEMENT MARKING REMOVAL	LF	12000	-	-	-	-	-	-
54	857(F)	PAVEMENT MARKING REMOVAL	EA	24	12	12	-	-	-	-
55	880(A)	ARROW DISPLAY	SD	360	-	-	-	-	-	-
56	880(B)	SIGNS 0.00 TO 6.25 SF	SD	4100	-	-	-	-	-	-
57	880(B)	SIGNS 6.26 TO 15.99 SF	SD	20430	-	-	-	-	-	-
58	880(B)	SIGNS 16.00 AND UP	SD	6360	-	-	-	-	-	-
59	880(C)	BARRICADES (TYPE III)	SD	17640	-	-	-	-	-	-
60	880(E)	TYPE "A" WARNING LIGHT	SD	41640	-	-	-	-	-	-
61	880(F)	DRUMS	SD	38160	-	-	-	-	-	-
62	880(G)	TUBE CHANNELIZERS	SD	30090	-	-	-	-	-	-
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	-	-	-	-	53	48
67	SPECIAL	TYPE I PCC PATCH	CY	81	-	77	4	-	-	-
68	SPECIAL	CURB RAMP	EA	30	7	5	4	7	0	7
69	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	EA	1	-	-	-	-	-	-
70	SPECIAL	OWNER ALLOWANCE	ALLOW	10000	-	-	-	-	-	-
STORMWATER PIPE MATERIAL OPTION 1 (RCP)										
71	613(A)	18" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	634	-	177	-	-	217	260
72	613(A)	24" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	36	-	-	-	-	-	36
STORMWATER PIPE MATERIAL OPTION 2 (CPP)										
73	(SP)COT215	18" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	634	-	177	-	-	217	260
74	(SP)COT215	24" CORRUGATED POLYPROPYLENE PIPE (CPP), COMPLETE IN PLACE	LF	36	-	-	-	-	-	36



9/12/2024



SUMMARIES (1 OF 4)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
PLAN SCALE:	DRAWN BY:	CGD	7/24
NA	DESIGNED BY:	DEP	7/24
PROFILE SCALE:	SURVEY BY:	TLS	1/17
HORIZONTAL:	PROJ. MGR.	M/2024	9/2024
VERTICAL:	LEAD ENGR.	DD	5/25
	FIELD MGR.	REN	6/15
	RECOMMENDED:	HBC	8-25
	DESIGN MANAGER		
FILE:	DRAWING:		
ATLAS PAGE NO: 3	DATE:	JULY 2024	
			CITY ENGINEER
			9/2024
			SHEET 08 OF 77 SHEETS

WATERLINE PAY QUANTITIES BASE BID												
					BASE BID	A				F	G	H
ITEM	SPEC. NO.	DESCRIPTION	NOTES	UNIT	QTY	40	41	42	43	46	46	47
75	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	1951	172.23	479.41	539.12	392.76	95.50	104.22	167.98
76	WS 303	MOBILIZATION		EA	1	-	-	-	-	-	-	-
77	ODOT 642	CONSTRUCTION STAKING <i>LEVEL II</i>		EA	1	-	-	-	-	-	-	-
78	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	382	-	53	37	46	84	-	162
79	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	164	-	46	37	81	-	-	-
80	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	1245	172	559	211	218	-	85	-
81	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	2,8	EA	2	-	-	1	1	-	-	-
82	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	2,8	EA	16	-	4	2	2	2	-	6
83	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	2,8	EA	10	2	-	-	6	-	2	-
84	WS 312(F)	12"x12"x6" DI TEE (RJ)	2,8	EA	10	1	4	3	2	-	-	-
85	WS 312(G)	12"x12"x12" DI TEE (RJ)	2,8	EA	1	-	1	-	-	-	-	-
86	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	2,8	EA	1	-	-	-	1	-	-	-
87	WS 312(J)	6" SLEEVE DI (RJ)	2,8,12	EA	38	2	11	8	6	3	0	8
88	WS 312(K)	12" SLEEVE DI (RJ)	2,8,12	EA	36	5	8	6	14	0	3	0
89	WS 312(L)	12"x6" DI REDUCER (RJ)	2,8	EA	2	-	-	-	-	-	-	2
90	WS 315(B)	3/4" WATER SERVICE CONNECTION (LONG)	15,16	EA	1	0	1	0	0	0	0	0
91	WS 315(B)	3/4" WATER SERVICE CONNECTION (SHORT)	15,16	EA	3	0	1	0	2	0	0	0
92	WS 315(D)	3/4" WATER SERVICE METER CAN, LID, & RIM		EA	4	0	2	0	2	0	0	0
93	WS 317(A)	6" GATE VALVE (RJ)	8	EA	11	1	3	3	2	0	0	2
94	WS 317(B)	12" GATE VALVE (RJ)	8	EA	8	1	2	2	2	0	1	0
95	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE		EA	5	1	1	2	1	0	0	0
96	WS 317(D)	6" FIRE HYDRANT EXTENSION		EA	5	1	1	2	1	0	0	0
97	WS 317(E)	12" FIRE HYDRANT EXTENSION		EA	5	1	1	2	1	0	0	0
98	WS 317(F)	18" FIRE HYDRANT EXTENSION		EA	5	1	1	2	1	0	0	0
99	WS 318(A)	VALVE BOX	21	EA	19	2	5	5	4	0	1	2
100	WS 318(B)	VALVE BOX EXTENSION	21	VF	19	2	5	5	4	0	1	2
101	WS 325	SODDING AND SEEDING	23	SY	18	2	9	3	4	0	0	0
102	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	31	SY	1046	87	273	258	219	56	57	96
103	COT 334	CONSTRUCTION AS-BUILTS	24,25,27	LSUM	1							
104	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1							
105	SPECIAL	OWNER ALLOWANCE	18	EA	5000							

WATERLINE PAY QUANTITIES ADD ALT.												
					ADD ALT.	A			B	C	D	E
ITEM	SPEC. NO.	DESCRIPTION	NOTES	UNIT	QTY	38	39	40	44	44	45	45
106	WS 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	1872	463.83	557.62	372.09	143.54	38.49	155.49	141.38
107	WS 307(A)	6" DIP, CL51 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	137	137	-	-	-	-	-	-
108	WS 307(B)	6" DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	451	155	-	-	-	43	141	112
109	WS 307(C)	12" DIP, CL50 POLYETHYLENE WRAPPED	1,2,3,9,11,27	LF	264	182	82	-	-	-	-	-
110	WS 307(D)	12" DIP, CL50 POLYETHYLENE WRAPPED (RJ)	1,2,3,8,9,11,27	LF	645	42	234	237	132	-	42	-
111	WS 312(B)	12" DI 11.25 DEGREE BEND (RJ)	2,8	EA	2	-	-	2	-	-	-	-
112	WS 312(C)	6" DI 45 DEGREE BEND (RJ)	2,8	EA	17	3	-	-	-	4	4	6
113	WS 312(D)	12" DI 45 DEGREE BEND (RJ)	2,8	EA	10	2	-	-	8	-	-	-
114	WS 312(E)	6"x6"x6" DI TEE (RJ)	2,8	EA	2	1	-	-	-	-	1	-
115	WS 312(F)	12"x12"x6" DI TEE (RJ)	2,8	EA	3	-	2	1	-	-	-	-
116	WS 312(I)	12"x12"x12"x12" DI CROSS (RJ)	2,8	EA	2	1	-	1	-	-	-	-
117	WS 312(J)	6" SLEEVE DI (RJ)	2,8,12	EA	33	8	2	2	0	5	8	8
118	WS 312(K)	12" SLEEVE DI (RJ)	2,8,12	EA	25	5	3	7	10	0	0	0
119	WS 312(L)	12"x6" DI REDUCER (RJ)	2,8	EA	3	1	-	-	-	-	-	2
120	WS 315(F)	1" WATER SERVICE CONNECTION (LONG)	15,16	EA	2	2	0	0	0	0	0	0
121	WS 315(F)	1" WATER SERVICE CONNECTION (SHORT)	15,16	EA	4	4	0	0	0	0	0	0
121	WS 315(H)	1" WATER SERVICE METER CAN, LID, & RIM		EA	6	6	0	0	0	0	0	0
122	WS 317(A)	6" GATE VALVE (RJ)	8	EA	9	3	0	1	0	1	2	2
123	WS 317(B)	12" GATE VALVE (RJ)	8	EA	4	0	1	1	2	0	0	0
124	WS 317(C)	3-WAY FIRE HYDRANT, IN PLACE		EA	3	1	0	1	0	0	1	0
125	WS 317(D)	6" FIRE HYDRANT EXTENSION		EA	3	1	0	1	0	0	1	0
126	WS 317(E)	12" FIRE HYDRANT EXTENSION		EA	3	1	0	1	0	0	1	0
127	WS 317(F)	18" FIRE HYDRANT EXTENSION		EA	3	1	0	1	0	0	1	0
128	WS 318(A)	VALVE BOX	21	EA	13	3	1	2	2	1	2	2
129	WS 318(B)	VALVE BOX EXTENSION	21	VF	13	3	1	2	2	1	2	2
130	WS 325	SODDING AND SEEDING	23	SY	28	0	0	0	0	7	21	0
131	WS 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPH)	31	SY	867	217	230	164	80	26	84	66

7/14/2025

SUMMARIES (2 OF 4)

PROJ. 144017-W, 144017-AX

S. UTICA AVE

E. 11TH ST. TO E. 15TH ST.

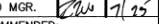
CITY OF TULSA, OKLAHOMA

PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588

REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
			1"=20'	DESIGNED BY:	DEP	7/24	
				SURVEY BY:	TLS	1/17	
			PROFILE SCALE	PROJ. MGR.	MGM	7/2025	
			HORIZONTAL:	LEAD ENGR.	CEN	7/2025	
			VERTICAL:	FIELD MGR.	CGD	7/15	
				RECOMMENDED:			 CITY ENGINEER
				DESIGN MANAGER			
			FILE:	DRAWING:			DATE JULY 2024
			ATLAS PAGE NO: 3				SHEET 09 OF 77 SHEETS

[illegible]

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-SM01.dwg, 240813 - 2:16 PM, DEP

FITTING SUMMARY								
TYPE	NORTHING	EASTING	LINE	STATION	OFFSET	ELEV.	SIZE	CONNECTION
SLEEVE	421827.17	2568724.68	A*	14+30.67	28.03 R	744.12	6	TO EXIST.
45° BEND (H)	421837.44	2568714.31	A*	14+41.65	18.40 R	743.91	6	
6"x6"x6" TEE	422090.55	2568719.56	A*	16+95.35	32.06 R	743.73	6	FH
12"x6" REDUCER	422116.35	2568720.10	A*	17+20.90	33.04 R	745.77	6	
12"x12"x12"x12" CROSS	422117.85	2568720.13	A*	17+23.15	33.11 R	745.77	12	LINE B
45° BEND (V)	422120.85	2568720.10	A*	17+26.15	33.12 R	745.79	12	
45° BEND (V)	422125.15	2568720.06	A*	17+30.46	33.13 R	741.47	12	
12"x12"x6" TEE	422456.64	2568714.90	A*	20+61.63	34.47 R	745.94	12	LINE C
12"x12"x6" TEE	422489.53	2568712.91	A*	21+00.70	39.53 R	743.68	12	LINE D
12"x12"x6" TEE	422755.95	2568694.73	A*	23+67.49	27.98 R	749.61	12	FH
12"x12"x12"x12" CROSS	422785.54	2568692.71	A*	23+97.12	26.69 R	749.62	12	LINE E
11.25" BEND	422833.15	2568689.46	A*	24+44.79	24.63 R	749.62	12	
11.25" BEND	422848.44	2568685.31	A*	24+60.18	20.86 R	749.62	12	
SLEEVE	422875.86	2568692.00	A	24+88.86	27.64 R	750.26	12	TO EXIST.
45° BEND (H)	422880.86	2568691.85	A	24+93.85	27.35 R	750.26	12	
45° BEND (H)	422887.17	2568685.87	A	25+00.00	21.21 R	750.26	12	
12"x12"x6" TEE	422979.23	2568688.51	A	25+92.10	21.42 R	753.91	12	FH
12"x12"x6" TEE	423212.79	2568691.29	A	28+24.95	19.12 R	756.18	12	FH
45° BEND (H)	423277.32	2568721.28	A	29+90.22	51.46 R	753.47	6	
SLEEVE	423377.32	2568723.28	A	29+90.24	53.64 R	753.47	6	TO EXIST.
12"x12"x6" TEE	423383.02	2568689.95	A	29+95.62	20.26 R	753.31	12	
45° BEND (H)	423383.22	2568714.86	A	29+96.05	45.16 R	753.30	6	
12"x12"x6" TEE	423387.52	2568689.92	A	30+00.12	20.18 R	753.17	12	LINE F
12"x12"x12" TEE	423393.35	2568689.87	A	30+05.95	20.08 R	753.00	12	LINE G
45° BEND (H)	423432.65	2568694.56	A	30+45.20	24.39 R	751.81	6	
12"x12"x6" TEE	423432.61	2568689.56	A	30+45.20	19.39 R	751.81	12	
45° BEND (H)	423436.53	2568698.39	A	30+49.21	28.17 R	751.81	6	
SLEEVE	423436.53	2568700.39	A	30+49.22	30.67 R	751.81	6	TO EXIST.
12"x12"x6" TEE	423450.56	2568689.42	A	30+63.15	19.07 R	751.27	12	
45° BEND (H)	423450.60	2568694.42	A	30+63.24	24.07 R	751.27	6	
45° BEND (H)	423454.48	2568698.25	A	30+67.16	27.86 R	751.27	6	
SLEEVE	423454.48	2568700.25	A	30+67.18	29.86 R	751.27	6	TO EXIST.
12"x12"x6" TEE	423546.25	2568688.67	A	31+58.98	19.12 R	746.32	12	FH
12"x12"x6" TEE	423811.03	2568686.58	A	34+20.32	22.34 R	734.35	12	FH
11.25" BEND	423818.19	2568686.53	A	34+26.95	23.51 R	733.93	12	
11.25" BEND	423884.13	2568672.42	A	34+95.73	19.95 R	730.82	12	
12"x12"x6" TEE	424072.08	2568669.25	A	36+85.63	21.28 R	723.06	12	
45° BEND (H)	424072.26	2568679.87	A	36+85.81	31.90 R	721.15	6	
45° BEND (H)	424075.43	2568682.52	A	36+88.99	34.96 R	721.15	6	
SLEEVE	424075.43	2568684.93	A	36+88.99	36.96 R	721.15	6	TO EXIST.
12"x12"x6" TEE	424086.49	2568669.01	A	37+00.00	21.04 R	723.06	12	FH
45° BEND (V)	424095.91	2568668.85	A	37+04.11	20.88 R	723.06	12	
45° BEND (V)	424090.55	2568668.94	A	37+09.47	20.97 R	718.21	12	
45° BEND (V)	424115.01	2568668.53	A	37+28.06	20.56 R	718.21	12	
45° BEND (V)	424118.11	2568668.48	A	37+34.07	20.51 R	724.22	12	
12"x12"x12"x12" CROSS	424126.31	2568668.31	A	37+39.86	20.37 R	724.18	12	
45° BEND (H)	424205.13	2568667.01	A	38+18.19	19.93 R	722.74	12	
45° BEND (H)	424208.18	2568669.96	A	38+21.16	22.96 R	722.65	12	
SLEEVE	424210.18	2568669.96	A	38+23.16	23.01 R	722.58	12	TO EXIST.

FITTING SUMMARY (CONT.)								
TYPE	NORTHING	EASTING	LINE	STATION	OFFSET	ELEV.	SIZE	CONNECTION
SLEEVE	422120.20	2568625.58	B*	100+00.00	0.00	746.49	12	TO EXIST.
45° BEND (H)	422120.25	2568628.08	B*	100+02.50	0.00	746.47	12	
45° BEND (H)	422116.71	2568631.77	B*	100+07.62	0.00	746.42	12	
45° BEND (V)	422117.39	2568684.11	B*	100+59.96	0.00	745.90	12	
45° BEND (V)	422117.45	2568689.26	B*	100+63.68	0.00	742.90	12	
45° BEND (V)	422117.56	2568697.63	B*	100+73.48	0.00	742.90	12	
45° BEND (V)	422117.59	2568699.84	B*	100+75.69	0.00	745.72	12	
45° BEND (H)	422118.19	2568746.44	B*	101+22.30	0.00	745.83	12	
45° BEND (H)	422121.79	2568750.04	B*	101+27.38	0.00	745.85	12	
SLEEVE	422121.78	2568755.04	B*	101+32.38	0.00	745.86	12	
45° BEND (V)	422456.59	2568720.23	C*	200+04.39	0.00	745.94	6	
45° BEND (V)	422456.57	2568722.11	C*	200+07.21	0.00	748.34	6	
45° BEND (H)	422456.41	2568738.09	C*	200+23.20	0.00	748.56	6	
45° BEND (H)	422448.94	2568745.45	C*	200+33.68	0.00	748.69	6	
SLEEVE	422448.96	2568748.25	C*	200+36.47	0.00	748.73	6	TO EXIST.
SLEEVE	422493.24	2568584.97	D*	300+00.00	0.00	748.37	6	TO EXIST.
45° BEND (H)	422493.38	2568589.96	D*	300+05.00	0.00	748.31	6	
45° BEND (H)	422488.53	2568595.16	D*	300+12.11	0.00	748.22	6	
6"x6"x6" TEE	422488.56	2568598.65	D*	300+15.60	0.00	748.18	6	FH
45° BEND (V)	422489.40	2568698.33	D*	301+12.23	0.00	746.98	6	
45° BEND (V)	422489.38	2568695.28	D*	301+15.28	0.00	743.68	6	
SLEEVE	422782.26	2568614.24	E*	400+00.00	0.00	750.52	6	TO EXIST.
45° BEND (H)	422782.24	2568616.74	E*	400+02.50	0.00	750.49	6	
45° BEND (H)	422785.31	2568619.79	E*	400+06.83	0.00	750.49	6	
12"x6" REDUCER	424126.33	2568670.84	E*	400+79.75	0.00	749.62	6	LINE A
12"x6" REDUCER	422785.54	2568691.68	E*	400+79.75	0.00	749.62	6	LINE A
45° BEND (V)	422785.58	2568703.93	E*	400+89.75	0.00	749.86	6	
45° BEND (V)	422785.59	2568708.27	E*	400+94.09	0.00	753.55	6	
45° BEND (H)	422785.63	2568718.29	E*	401+05.33	0.00	753.90	6	
45° BEND (H)	422782.58	2568721.37	E*	401+09.66	0.00	754.03	6	
SLEEVE	422782.60	2568723.87	E*	401+12.16	0.00	754.11	6	TO EXIST.
SLEEVE	423384.12	2568606.80	F	500+00.00	0.00	754.39	6	TO EXIST.
45° BEND (H)	423384.15	2568609.30	F	500+02.35	0.00	754.35	6	
45° BEND (H)	423386.65	2568611.78	F	500+06.02	0.00	754.30	6	
SLEEVE	423389.31	2568606.13	G	600+00.00	0.00	753.97	12	TO EXIST.
45° BEND (H)	423389.34	2568608.63	G	600+02.50	0.00	753.95	12	
45° BEND (H)	423392.48	2568611.76	G	600+06.92	0.00	753.92	12	
SLEEVE	424125.07	2568557.31	H	700+00.00	0.00	726.30	6	TO EXIST.
45° BEND (V)	424125.29	2568577.38	H	700+20.07	0.00	725.92	6	
45° BEND (V)	424125.32	2568579.38	H	700+22.07	0.00	724.22	6	
45° BEND (V)	424125.54	2568599.38	H	700+42.07	0.00	724.22	6	
45° BEND (V)	424125.55	2568600.85	H	700+43.54	0.00	725.77	6	
12"x6" REDUCER	424126.28	2568666.84	H	701+08.53	0.00	724.21	6	LINE A
12"x6" REDUCER	424126.32	2568669.32	H	701+13.53	0.00	724.14	6	LINE A
45° BEND (H)	424126.54	2568689.22	H	701+31.91	0.00	723.65	6	
45° BEND (V)	424126.54	2568689.22	H	701+38.92	0.00	723.65	6	
45° BEND (V)	424115.77	2568700.22	H	701+43.21	0.00	720.00	6	
45° BEND (H)	424107.10	2568709.09	H	701+59.71	0.00	720.00	6	
SLEEVE	424107.09	2568711.59	H	701+62.21	0.00	720.00	6	TO EXIST.

WATER VALVE SUMMARY							
NORTHING	EASTING	LINE	STATION	OFFSET	ELEV.	SIZE (INCHES)	CONNECTION
421827.17	2568724.68	A*	14+30.67	28.03 R	744.12	6	
421842.44	2568714.41	A*	14+46.63	18.86 R	743.73	6	
422090.50	256872.06	A*	16+95.23	34.55 R	743.73	6	FH
422115.35	2568720.08	A*	17+19.40	32.99 R	747.83	6	
422469.90	2568714.25	A*	20+74.90	34.01 R	743.94	12	
422753.46	2568694.90	A*	23+64.99	28.08 R	754.97	12	
422756.12	2568697.22	A*	23+67.49	30.47 R	754.33	6	FH
422783.05	2568692.88	A*	23+94.63	26.80 R	749.62	12	
422976.73	2568688.43	A	25+89.60	21.41 R	753.85	12	
422979.25	2568691.01	A	25+92.19	23.92 R	753.91	6	FH
423210.30	2568691.22	A	28+22.49	19.03 R	756.15	12	
423212.81	2568693.79	A	28+24.95	21.62 R	756.15	6	FH
423383.04	2568692.45	A	29+95.66	22.76 R	753.31	6	CONNECTION
423385.12	2568689.94	A	29+97.71	20.22 R	753.25	12	
423432.63	2568692.06	A	30+45.24	21.89 R	751.81	6	CONNECTION
423450.58	2568691.92	A	30+63.19	21.57 R	751.27	6	CONNECTION
423558.75	2568688.57	A	31+70.98	19.12 R	748.01	12	
423561.27	2568697.05	A	31+73.48	21.62 R	747.93	6	FH
423808.53	2568686.60	A	34+18.07	22.10 R	734.49	12	
423811.05	2568689.08	A	34+20.02	24.91 R	734.35	6	FH
424072.12	2568671.74	A	36+85.68	23.77 R	723.57	6	CONNECTION
424083.99	2568669.05	A	36+97.54	21.08 R	723.57	12	
424086.53	2568671.51	A	37+00.00	23.54 R	723.57	6	FH
424128.80	2568668.28	A	37+42.36	20.32 R	724.16	12	CONNECTION
422117.82	2568717.63	B*	100+93.48	NA	745.77	12	
422117.89	2568722.63	B*	100+98.48	NA	745.77	12	
422456.62	2568717.40	C*	200+02.50	NA	745.94	6	
422491.13	2568598.59	D*	300+15.56	2.57 L	748.18	6	FH
422489.51	2568710.41	D*	301+27.36	NA	743.68	6	
422785.54	2568690.21	E*	400+77.25	NA	749.65	6	
422785.55	2568695.21	E*	400+82.25	NA	749.68	12	
423387.50	2568687.42	F	500+81.67	NA	752.88	6	
423393.33	2568687.37	G	600+82.57	NA	752.26	12	
424126.28	2568665.84	H	701+06.03	NA	724.23	6	
424126.33	2568670.84	H	701+13.53	NA	724.14	6	
424126.33	2568670.84	H	701+16.03	NA	723.98	6	

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SIGN SUMMARY								
ACTION	STA.	OFFSET	SIGN DESCRIPTION	AREA (SF)	SIZE	POST LENGTH (FT)		
						1.5"	1.75"	2"
REMOVE/REPLACE	14+55	49.1 RT	STOP (R1-1)	5.18	30"X30"	2	9.5	2.5
			E. 14TH PL. 1700 (2 EA)	3.76	LENGTH X 9"			
			S. UTICA AV. 1400 (2 EA)	3.76	LENGTH X 9"			
REMOVE/RESET	14+74	36.3 RT	TERRACE DRIVE NEIGHBORHOOD			9.5	2.5	
			JUNCTION (M2-1)	2.19	21"X15"			
			US HWY 64 (M1-4)	4.00	30"X24"			
REMOVE/REPLACE	15+79	42.4 RT	STATE HWY 51 (M1-5)	4.00	30"X24"	9.5	2.5	
			WEST (M3-4)	2.00	24"X12"			
			US HWY 64 (M1-4)	4.00	30"X24"			
REMOVE/REPLACE	15+91	44' RT	STATE HWY 51 (M1-5)	4.00	30"X24"	2	9.5	2.5
			EAST (M3-2P)	2.00	24"X12"			
			RIGHT ARROW (M5-1P(R))	2.19	21"X15"			
			WEST (M3-4P)	2.00	24"X12"			
			US HWY 64 (M1-4) (2 EA)	4.00	30"X24"			
			STATE HWY 51 (M1-5) (2 EA)	4.00	30"X24"			
REMOVE/REPLACE	15+95	0' RT	AHEAD ARROW (M6-3P)	2.19	21"X15"	9.5	2.5	
REMOVE/REPLACE	16+42	41.6' LT	KEEP RIGHT (R4-7)	4.00	24"X30"			
REMOVE/REPLACE	16+99	8' LT	TULSA TRANSIT BUS STOP					
REMOVE/REPLACE	17+00	45.9' RT	KEEP RIGHT (R4-7)	4.00	24"X30"	9.5	2.5	
			EAST (M3-2P)	2.00	24"X12"			
			US HWY 64 (M1-4)	4.00	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
REMOVE/REPLACE	17+06	48' RT	RIGHT ARROW (M6-1(R))	2.19	21"X15"	9.5	2.5	
REMOVE/REPLACE	17+20	182' LT	ONE WAY (R6-1R)	3.00	36"X12"			
REMOVE/REPLACE	17+24	80' LT	LANE CONTROL MODIFIED (R3-8B)	6.25	30"X30"			
REMOVE/REPLACE	17+24	80' LT	DO NOT ENTER (R5-1)	6.25	30"X30"	9.5	2.5	
			ADVANCE INTERSECTION LANE CONTROL (R3-8)		30"X24"			
REMOVE/RESET	17+25	117' LT	HOSPITAL (D9-2)	4.00		9.5	2.5	
			"ST. JOHN" (SERVICE SIGN)					
			RIGHT ARROW (SERVICE SIGN)					
REMOVE/RESET	17+80	73' LT	HOSPITAL (D9-2)	4.00		9.5	2.5	
			"HILCREST" (SERVICE SIGN)					
			LEFT ARROW (SERVICE SIGN)					
			DO NOT ENTER (R5-1)	6.25	30"X30"			
REMOVE/REPLACE	17+90	44' LT	ONE WAY (R6-1R)	3.00	36"X12"	9.5	2.5	
REMOVE/REPLACE	17+97	0' RT	KEEP RIGHT (R4-7)	4.00	24"X30"			
REMOVE/REPLACE	18+15	50' RT	WEST (M3-4P)	2.00	24"X12"	9.5	2.5	
			US HWY 64 (M1-4)	4.00	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
			LEFT ARROW (M5-1P(L))	2.19	21"X15"			
REMOVE/REPLACE	18+20	51' LT	NO LEFT TURN (R3-1)	4.00	24"X24"	9.5	2.5	
REMOVE/REPLACE	18+26	51' RT	SIGNAL AHEAD (W3-3)	6.25	30"X30"			
REMOVE/REPLACE	18+37	52.3' LT	EAST (M3-2P)	2.00	24"X12"	9.5	2.5	
			US HWY 64 (M1-4)	4.00	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
			LEFT ARROW (M6-1P(L))	2.19	21"X15"			
REMOVE/REPLACE	19+95	51.5' LT	EAST (M3-2P)	2.00	24"X12"	9.5	2.5	
			US HWY 64 (M1-4)	4.00	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
			LEFT ARROW (M5-1P(L))	2.19	21"X15"			
REMOVE/REPLACE	20+00	48.9' RT	WEST (M3-4P)	2.00	24"X12"	9.5	2.5	
			US HWY 64 (M1-4)	4.00	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
			LEFT ARROW (M6-1P(L))	2.19	21"X15"			
REMOVE/REPLACE	20+35	50' RT	NO RIGHT TURN (R3-1)	4.00	24"X24"	9.5	2.5	
REMOVE/REPLACE	20+37	0.4' RT	KEEP RIGHT (R4-7)	4.00	24"X30"			
REMOVE/REPLACE	20+53	55.2' RT	DO NOT ENTER (R5-1)	6.25	30"X30"	9.5	2.5	
			ONE WAY (R6-1L)	3.00	36"X12"			
			HOSPITAL (D9-2)	4.00				
			ST JOHN (SERVICE SIGN)					
REMOVE/RESET	21+05	77.2' RT	LEFT ARROW (SERVICE SIGN)			9.5	2.5	
			HOSPITAL (D9-2)	4.00				
			HILCREST (SERVICE SIGN)					
			RIGHT ARROW (SERVICE SIGN)					
REMOVE/REPLACE	21+27	6' LT	ONE WAY (R6-1L)	3.00	36"X12"	9.5	2.5	
			DO NOT ENTER (R5-1)	6.25	30"X30"			
REMOVE/REPLACE	21+31	15' RT	NO LEFT TURN (R3-2)	4.00	24"X24"	9.5	2.5	
REMOVE/REPLACE	21+87	47.5' LT	KEEP RIGHT (R4-7)	4.00	24"X30"			
REMOVE/REPLACE			NO PARKING (R7-1)	1.50	18"X24"	9.5	2.5	

SIGN SUMMARY CONT.								
ACTION	STA.	OFFSET	SIGN DESCRIPTION	AREA (SF)		POST LENGTH (FT)		
						1.5"	1.75"	2"
REMOVE/REPLACE	22+30	49.8' LT	EAST (M3-2P)	2.00	24"X12"	9.5	2.5	
			WEST (M3-4P)	2.00	24"X12"			
			US HWY 64 (M1-4) (2 EA)	4.00	30"X24"			
			STATE HWY 51 (M1-5) (2 EA)	4.00	30"X24"			
			AHEAD ARROW (M6-3P)	2.19	21"X15"			
			RIGHT ARROW (M5-1P(R))	2.19	21"X15"			
REMOVE/REPLACE	23+66	6.9' RT	KEEP RIGHT (R4-7)	4.00	24"X30"	9.5	2.5	
REMOVE/REPLACE	23+76	46.1 RT	JUNCTION (M2-1)	5.00	21"X15"			
			US HWY 64 (M1-4)	2.19	30"X24"			
			STATE HWY 51 (M1-5)	4.00	30"X24"			
REMOVE/RESET	23+86	59.5' LT	NEIGHBORHOOD SIGN			2	9.5	2.5
REMOVE/REPLACE			STOP (R1-1)	5.18	30"X30"			
			S. UTICA AV. 1300 (2 EA)	3.76	LENGTH X 9"			
			E. 13TH ST. 1600 (2 EA)	3.76	LENGTH X 9"			
REMOVE/RESET	24+35	57.1' RT	ALERT NEIGHBOR (2 EA)			2	9.5	2.5
REMOVE/RESET			TERRACE DRIVE NEIGHBORHOOD					
			STOP (R1-1)	5.18	30"X30"			
			S. UTICA AV. 1300 (2 EA)	3.76	LENGTH X 9"			
			E. 13TH ST. 1700 (2 EA)	3.76	LENGTH X 9"			
REMOVE/REPLACE			NO LEFT TURN (R3-2)	4.00	24"X24"			
REMOVE/RESET	25+29	33.4' RT	TULSA TRANSIT BUS STOP				8.5	2.5
REMOVE/REPLACE	28+23	2' RT	KEEP RIGHT (R4-7)	4.00	24"X30"		8.5	2.5
REMOVE/RESET	28+56	30.5' LT	TULSA TRANSIT BUS STOP				8.5	2.5
REMOVE/REPLACE	29+66	3.6' LT	KEEP RIGHT (R4-7)	4.00	24"X30"		8.5	2.5
REMOVE/REPLACE	29+90	75' LT	LEFT LANE MUST TURN LEFT (R3-7)	6.25	30"X30"		9.5	2.5
REMOVE/REPLACE	30+50	60' RT	RIGHT ONLY (R3-5(R))	6.25	30"X36"		9.5	2.5
REMOVE/RESET	31+67	32.7' RT	TULSA TRANSIT BUS STOP				8.5	2.5
REMOVE/REPLACE	35+03	31.9' RT	WHEELCHAIR CROSSING (W11-9)	6.25	24"X24"		9.5	2.5
REMOVE/REPLACE	35+14	31.3' LT	SPEED LIMIT 30 (R2-1)	5.00	24"X30"		9.5	2.5
REMOVE/RESET	35+74	31.4' LT	HOSPITAL (D9-2)	4.00			9.5	2.5
			AHEAD ARROW (SERVICE SIGN)		21"X15"			
REMOVE/RESET	36+19	30.7' RT	TULSA TRANSIT BUS STOP				8.5	2.5
TOTAL =				273.94		8.00	346.50	92.50

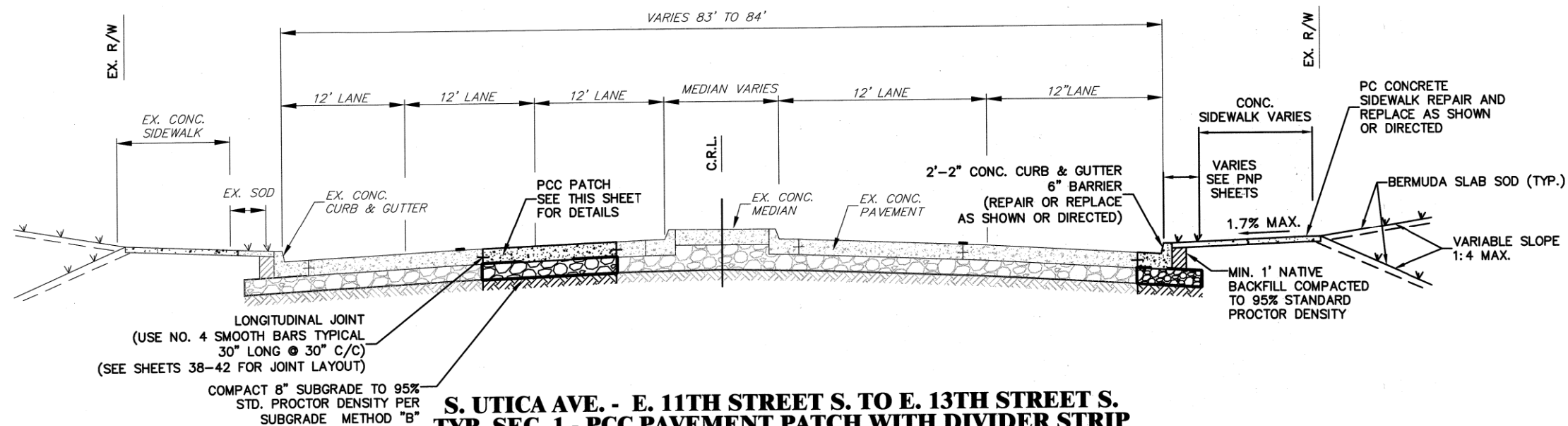
STRIPING SUMMARY							
DESCRIPTION	UNIT	QTY	S. UTICA AVE.				
			48	49	50	51	
TRAFFIC STRIPE (PLASTIC)(4" WHITE)	LF	4344	1287	1580	835	642	
TRAFFIC STRIPE (PLASTIC)(4" YELLOW)	LF	5257	1152	1134	2140	831	
TRAFFIC STRIPE (PLASTIC)(8" YELLOW)	LF	332	37	87	208	0	
TRAFFIC STRIPE (PLASTIC)(24" WHITE)	LF	1752	457	565	393	337	
TRAFFIC STRIPE (PLASTIC ARROW)	EA	51	14	20	11	6	

DRIVEWAY SUMMARY					
STA.	WIDTH	DEPTH	RADIUS	AGG. BASE	6" CONCRETE DRIVEWAY
				303 (A)	610 (B)
	FT.		FT.	C.Y.	S.Y.
15+40.19 LT	42	10	0	8	47
15+55.78 RT	37	7	0	5	29
16+14.16 RT	32	8	0	5	28
26+01.21 LT	46	9	0	5	32
34+45.39 RT	24	14	15	6	37
34+81.97 LT	45	16	15 L, 10 R	13	80
35+36.20 LT	28	12	10	6	37
			TOTAL:	48	290



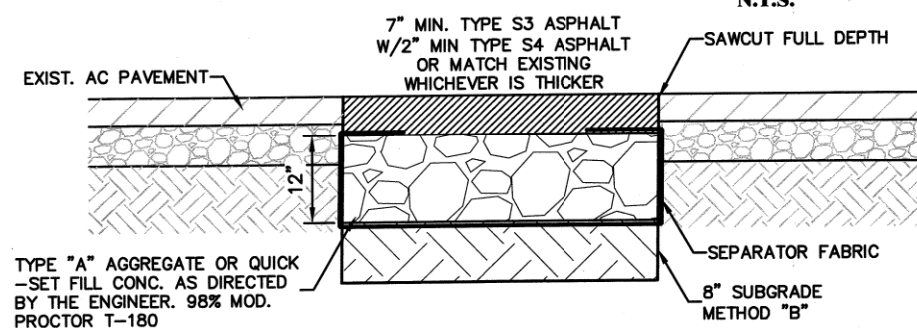
7/14/2025

SUMMARIES (4 OF 4)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
NA	DESIGNED BY:	DEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	<i>Mason</i>	7/20/25
HORIZONTAL:	LEAD ENGR.	<i>[Signature]</i>	7/15
	FIELD MGR.	<i>[Signature]</i>	7/15
VERTICAL:	RECOMMENDED:	<i>HAS</i>	7-25
	DESIGN MANAGER		CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 11 OF 77 SHEETS	



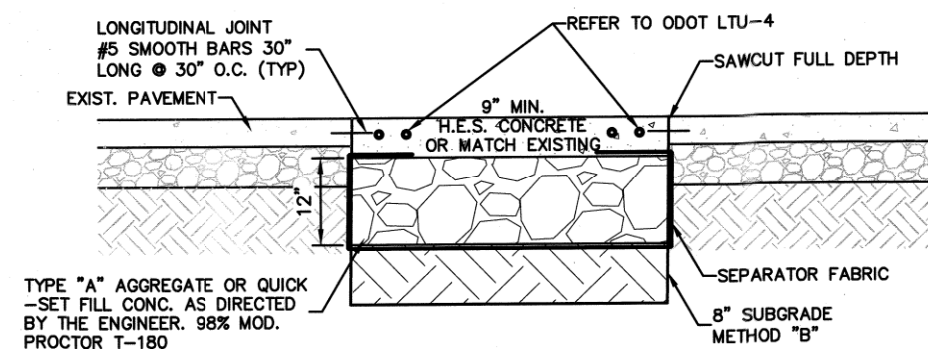
**S. UTICA AVE. - E. 11TH STREET S. TO E. 13TH STREET S.
TYP. SEC. 1 - PCC PAVEMENT PATCH WITH DIVIDER STRIP**

STA 14+65.55 TO STA 25+07.13
N.T.S.



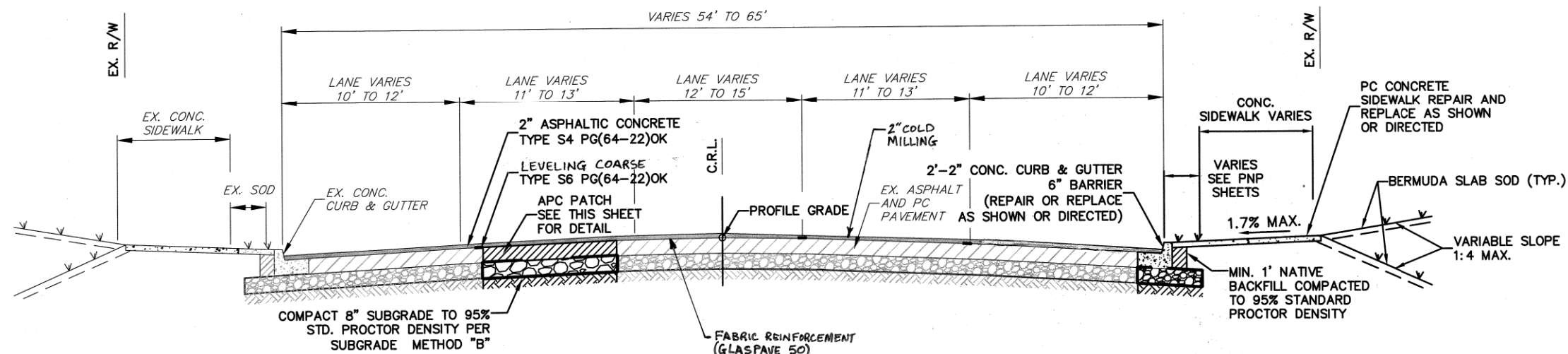
**S. UTICA AVE. - E. 11TH STREET S. TO E. 12TH STREET S.
AC PATCH DETAIL**

STA 33+94.24 TO STA. 36+69.53
N.T.S.



**S. UTICA AVE. - E. 13TH STREET S. TO E. 15TH STREET S.
PCC PATCH DETAIL**

STA 14+65.55 TO STA. 25+07.13
N.T.S.



**S. UTICA AVE. - E. 11TH STREET S. TO E. 13TH STREET S.
TYP. SEC. 2 - MILL AND AC OVERLAY**

STA 25+07.13 TO STA 28+18.01
STA 30+68.08 TO STA 36+69.53
N.T.S.

NOTES:

1. SEE PAY ITEM NOTE E-10, SHEET 2 FOR LIMITS OF SOLID SLAB SOD REPLACEMENT,
2. SEE REHABILITATION SHEETS FOR LIMITS OF COMBINED CURB & GUTTER REPLACEMENT,
3. CONTRACTOR SHALL USE TYPE S6 ASPHALT AT THE DISCRETION OF THE ENGINEER AS A SELECT LEVELING COURSE.
4. PER ODOT SECTION 417-COLD MILLING PAVEMENT: MILL THE EXISTING PAVEMENT UNIFORMLY TO PROVIDE A UNIFORM TEXTURE, TRUE TO LINE, GRADE & CROSS SECTION; IT SHALL HAVE NO DEVIATIONS IN EXCESS OF 3/16" IN 10 FEET, MAKE AS MANY PASSES AS NECESSARY TO REMOVE IRREGULARITIES AND TO PROFILE THE SURFACE TO THE DEPTH AND CROSS SLOPE SHOWN.



TYPICAL SECTIONS (1 OF 2)

PROJ. 144017-W, 144017-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

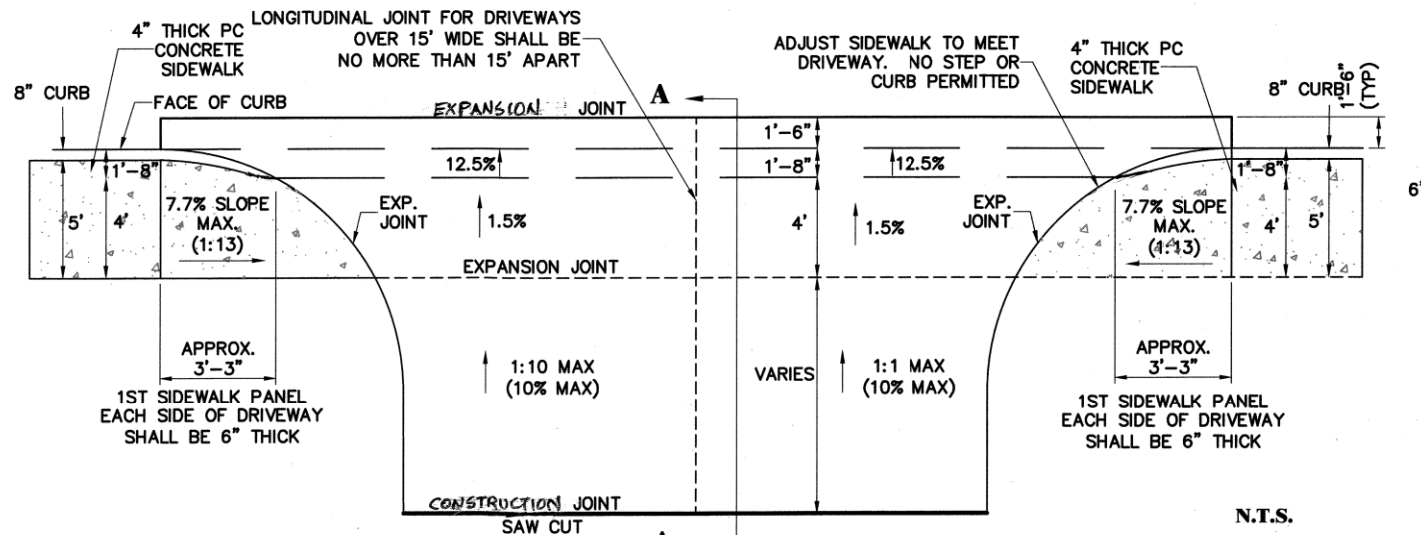
PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588

REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
			1"=20'	DESIGNED BY:	DEP	7/24	
				SURVEY BY:	TLS	1/17	
			PROFILE SCALE	PROJ. MGR.	<i>M. Gamm</i>	9/20/24	
			HORIZONTAL:	LEAD ENGR.	<i>ON</i>	5/20	
			1"=20'	FIELD MGR.	<i>R. W. 16/15</i>		
			VERTICAL:	RECOMMENDED:	<i>HAS 8.25</i>		
			1"=5'	DESIGN MANAGER			<i>Z. J. J. J.</i> CITY ENGINEER
FILE:			DRAWING:			DATE JULY 2024	
ATLAS PAGE NO: 3						SHEET 12 OF 77 SHEET	

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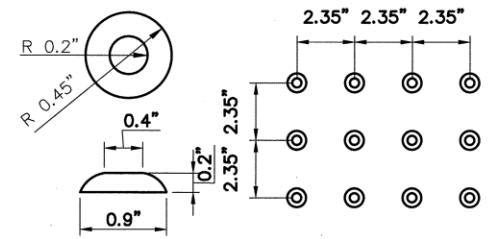


TYPICAL DRIVEWAY PLAN

N.T.S.
NOTES: CURB RADII AS SHOWN ON CONSTRUCTION PLANS

DETAIL OF 2'-2" COMBINATION CURB & GUTTER (6" BARRIER)

N.T.S.

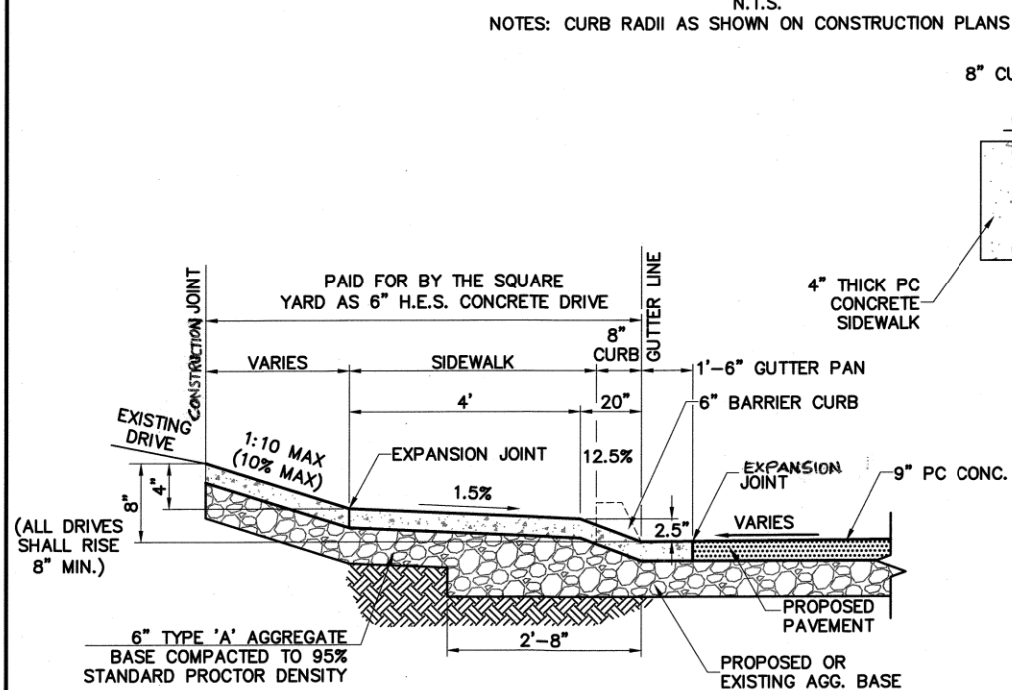


TACTILE MARKERS TRUNCATED DOMES
DETAIL "B"

TACTILE MARKERS TRUNCATED DOMES

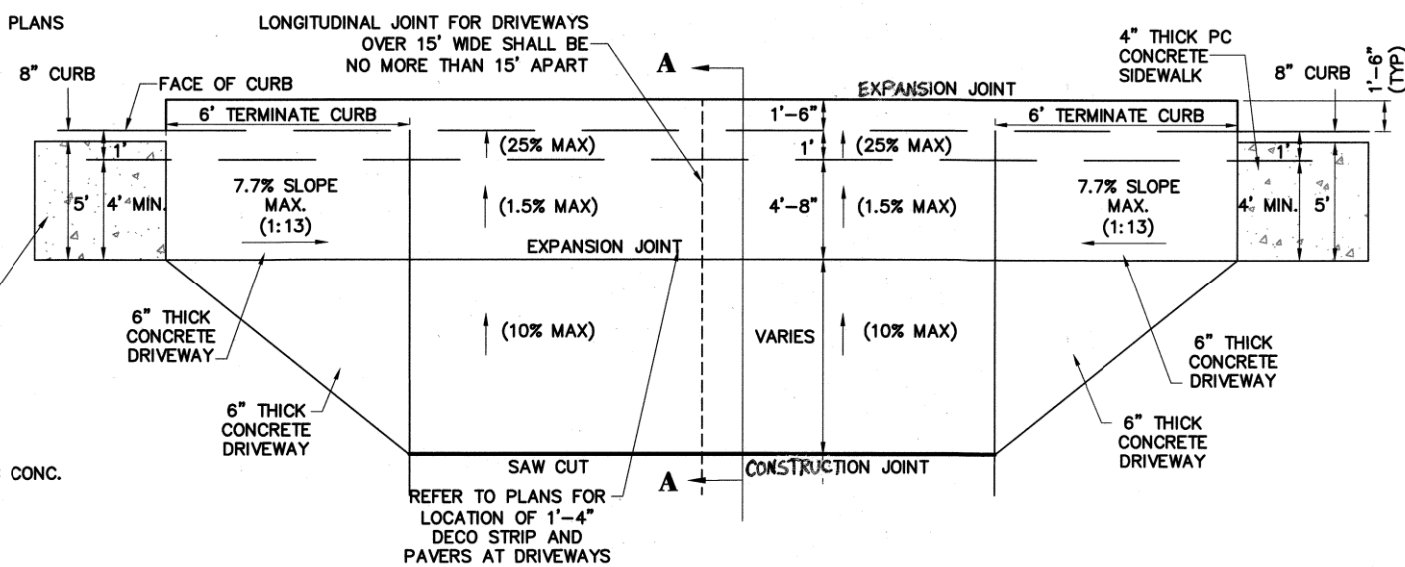
N.T.S.

FOR TACTILE WARNING DETAILS AND INSTALLATION
NOTES SEE COT STANDARD 790



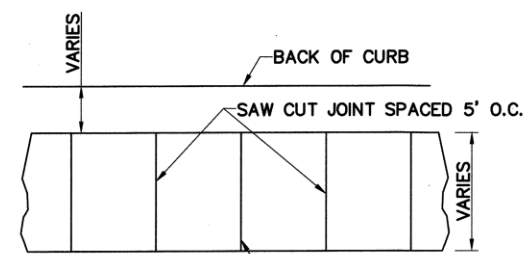
DRIVEWAY PLAN SECTION A-A

N.T.S.
JOINTS SHOWN FOR P.C. CONCRETE DRIVEWAY



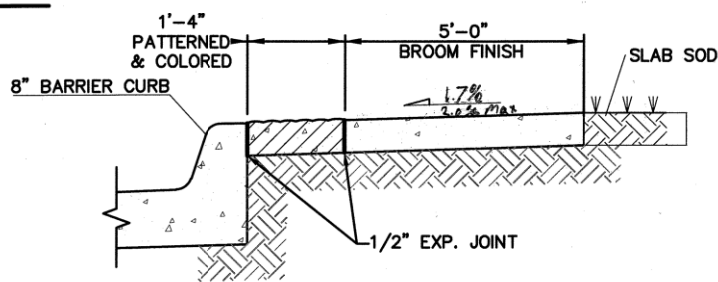
TYPICAL RAMP DRIVEWAY PLAN

N.T.S.



PLAN DETAIL OF CONCRETE SIDEWALK

N.T.S.



DECORATIVE SIDEWALK SECTION

N.T.S.

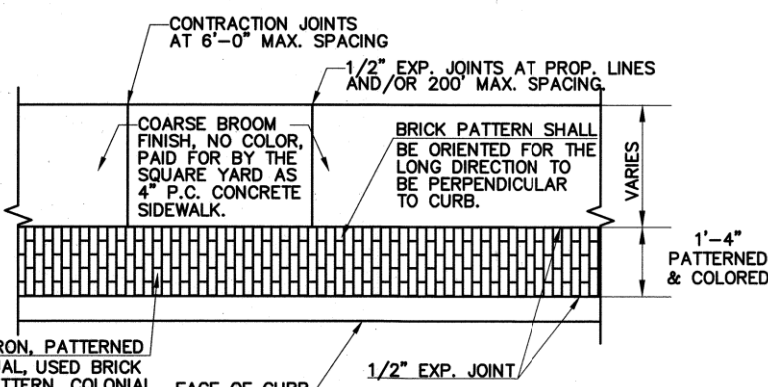
SIDEWALK NOTES:

- 1) JOINT SEALER SHALL MEET THE REQUIREMENTS OF SECTIONS 701.08b AND 701.08e.
- 2) WHEREVER PRACTICABLE, TRANSVERSE SIDEWALK JOINTS SHALL BE ALIGNED WITH PAVING JOINTS AND/OR BRICK PATTERN.

BOMANITE-BOMACRON, PATTERNED CONCRETE OR EQUAL, USED BRICK RUNNING BOND PATTERN, COLONIAL RED COLOR, PAID FOR BY THE SQUARE YARD AS 4" P.C. CONCRETE SIDEWALK.

DECORATIVE SIDEWALK PLAN

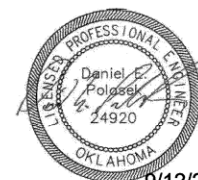
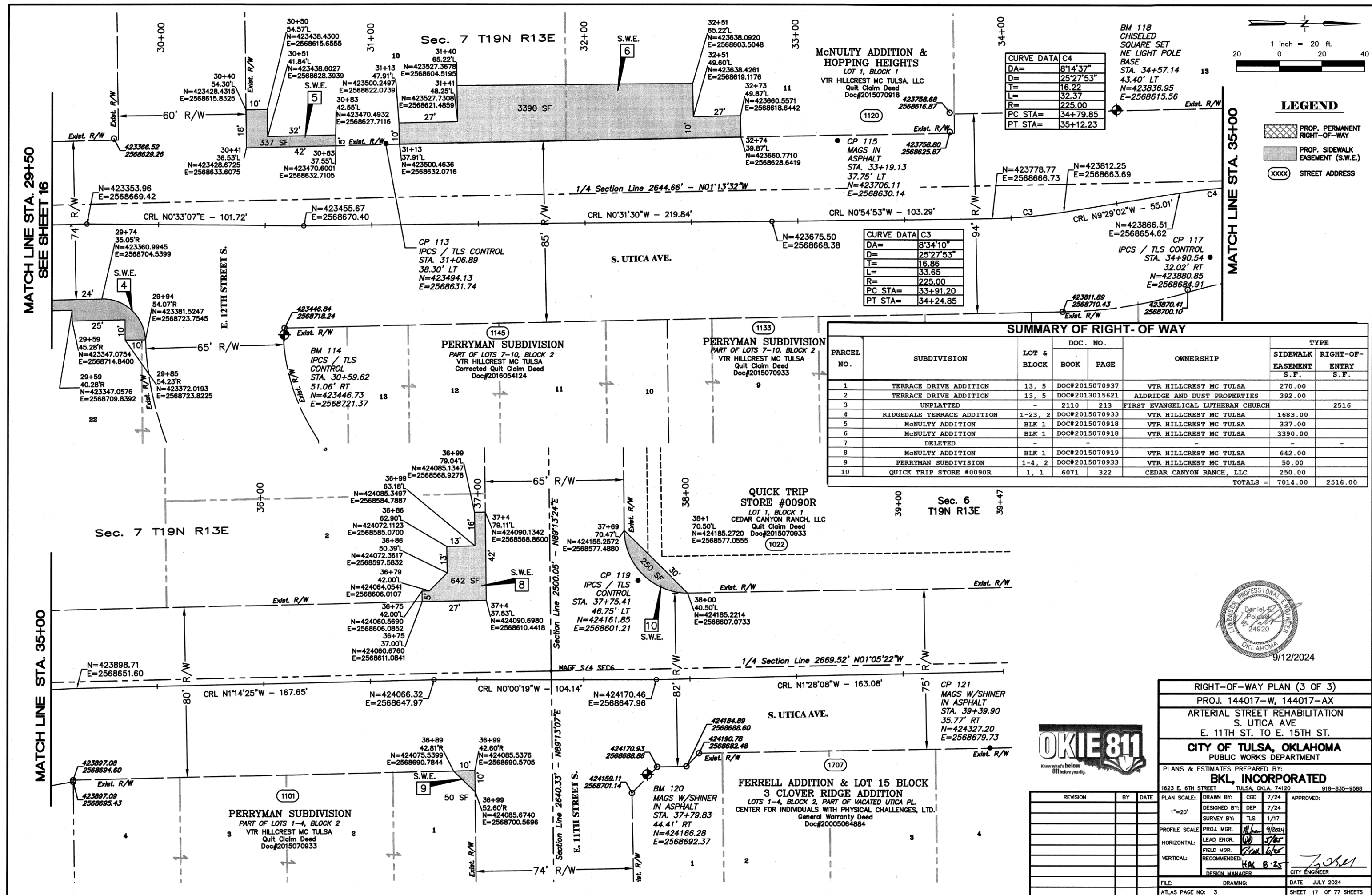
N.T.S.



9/12/2024

MISCELLANEOUS DETAILS			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	APPROVED:
NA	DESIGNED BY:	DEP 7/24	
PROFILE SCALE:	SURVEY BY:	TLS 1/17	
NA	PROJ. MGR.	M. Ban 9/2024	
HORIZONTAL:	LEAD ENGR.	5/25	CITY ENGINEER
VERTICAL:	FIELD MGR.	2/21/16	
NA	RECOMMENDED:	HB 9-25	CITY ENGINEER
FILE:	DESIGN MANAGER		
ATLAS PAGE NO: 3	DRAWING:	DATE JULY 2024	SHEET 14 OF 77 SHEETS

MATCH LINE STA. 35+00



9/12/2024

RIGHT-OF-WAY PLAN (3 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY: CGD	7/24	APPROVED:
1"=20'	DESIGNED BY: DEP	7/24	
	SURVEY BY: TLS	1/17	
PROFILE SCALE	PROJ. MGR. <i>Mham</i>	9/20/04	
HORIZONTAL:	LEAD ENGR. <i>(D)</i>	5/25	
VERTICAL:	FIELD MGR. <i>Rm</i>	6/6/05	
	RECOMMENDED: <i>KAR</i>	8-25	
	DESIGN MANAGER		CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 17 OF 77 SHEETS	

LOTS 1, BLOCK 1 STILLWATER NATIONAL BANK STILLWATER NATIONAL BUILDING CORP. Special Warranty Deed Bk. 5953, Pg. 1095

1500

E. 15th Street S.

Exist. R/W

Exist. R/W

CP 100 CHXS 15TH & UTICA INC. General Warranty Deed Doc.#2004093066

1515

ARVEST MIDTOWN AMENDED LOTS 1, BLOCK 1

MAGF CEN SEC7

LAKE VIEW ADDITION PART OF LOTS 10-12, BLOCK 4

14th & Utica LLC Special Warranty Deed Doc.#2016114798

1436

LAKE VIEW ADDITION PART OF LOTS 8-9, BLOCK 4

14th & Utica LLC Special Warranty Deed Doc.#2016114798

1436

LAKE VIEW ADDITION PART OF LOTS 7-8, BLOCK 4

14th & Utica LLC Special Warranty Deed Bk. 6186, Pg. 1038

1430

BLOCK 4 PART OF LOT 6, LAKE VIEW ADDITION

HILLCREST REAL ESTATES DEV. CO. General Warranty Deed Bk. 6383, Pg. 1023

1404

BLOCK 4 PART OF LOT 5, LAKE VIEW ADDITION

HILLCREST REAL ESTATES DEV. CO. General Warranty Deed Bk. 6383, Pg. 1023

1404

LAKE VIEW ADDITION PART OF LOTS 1-4, BLOCK 4

HILLCREST REAL ESTATES DEV. CO. General Warranty Deed Bk. 6383, Pg. 1023

1404

E. 14th Street S.

BLOCK 1 LAKE VIEW ADDITION PART OF LOTS 6-12, BLOCK 4, PART OF BLOCK 1

State of Oklahoma c/o Dept. Of Transportation

BM 106 CHSOS NORTH SIDE OF TSCB CONC PAD

LAKE VIEW ADDITION BLOCK 1 PART OF LOT 3,

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1312

BLOCK 1 PART OF LOT 3, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1312

BLOCK 1 PART OF LOT 2, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1308

BLOCK 1 PART OF LOT 1, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1302

E. 13th Street

South Utica Avenue 1/4 Section Line 2644.66' - N01°13'32"W

CP 105 IPCS TLS CONTROL

STATE OF OKLAHOMA C/O DEPT. OF HIGHWAYS R/W DIVISION

TERRACE DRIVE ADDITION RESUB. BLOCK 6 & LOTS 1-3 BLOCK 4, ALL BLOCKS 15-17, PART OF LOTS 1-14, BLOCK 10, & ALL BLOCK 11, PART OF LOTS 12 & 13 BLOCK 14

E. 13th Place S.

BM 108 IPCS TLS CONTROL

VTR HILLCREST MC TULSA Quit Claim Deed Doc#2015070937

TERRACE DRIVE ADDITION RESUB. BLOCK 6 & LOTS 1-3, BLOCK 4 PART OF LOTS 12-13, BLOCK 14

CP 122 IPCS TLS CONTROL

South Utica Avenue 1/4 Section Line 2644.66' - N01°13'32"W

CP 105 IPCS TLS CONTROL

STATE OF OKLAHOMA C/O DEPT. OF HIGHWAYS R/W DIVISION

TERRACE DRIVE ADDITION RESUB. BLOCK 6 & LOTS 1-3 BLOCK 4, ALL BLOCKS 15-17, PART OF LOTS 1-14, BLOCK 10, & ALL BLOCK 11, PART OF LOTS 12 & 13 BLOCK 14

E. 13th Place S.

BM 108 IPCS TLS CONTROL

VTR HILLCREST MC TULSA Quit Claim Deed Doc#2015070937

TERRACE DRIVE ADDITION RESUB. BLOCK 6 & LOTS 1-3, BLOCK 4 PART OF LOTS 12-13, BLOCK 14

CP 122 IPCS TLS CONTROL

E. 13th Street

UNPLATTED FIRST EVANGELICAL LUTHERAN CHURCH General Warranty Deed Bk. 2110 Pg. 213

CP 109 CHXF

E. 11th Street

BLOCK 1 LAKE VIEW ADDITION PART OF LOTS 6-12, BLOCK 4, PART OF BLOCK 1

State of Oklahoma c/o Dept. Of Transportation

BM 106 CHSOS NORTH SIDE OF TSCB CONC PAD

LAKE VIEW ADDITION BLOCK 1 PART OF LOT 3,

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1312

BLOCK 1 PART OF LOT 2, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1312

BLOCK 1 PART OF LOT 1, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

1308

BLOCK 1 PART OF LOT 1, LAKE VIEW ADDITION

MANDALAY BAY INVESTMENTS, ET AL General Warranty Deed Doc.#2014010679

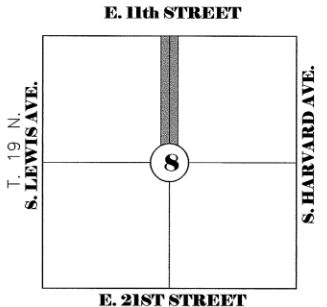
1302

BM 110 IPCS TLS CONTROL

1265

13

1 inch = 50 ft. 50 0 50 100



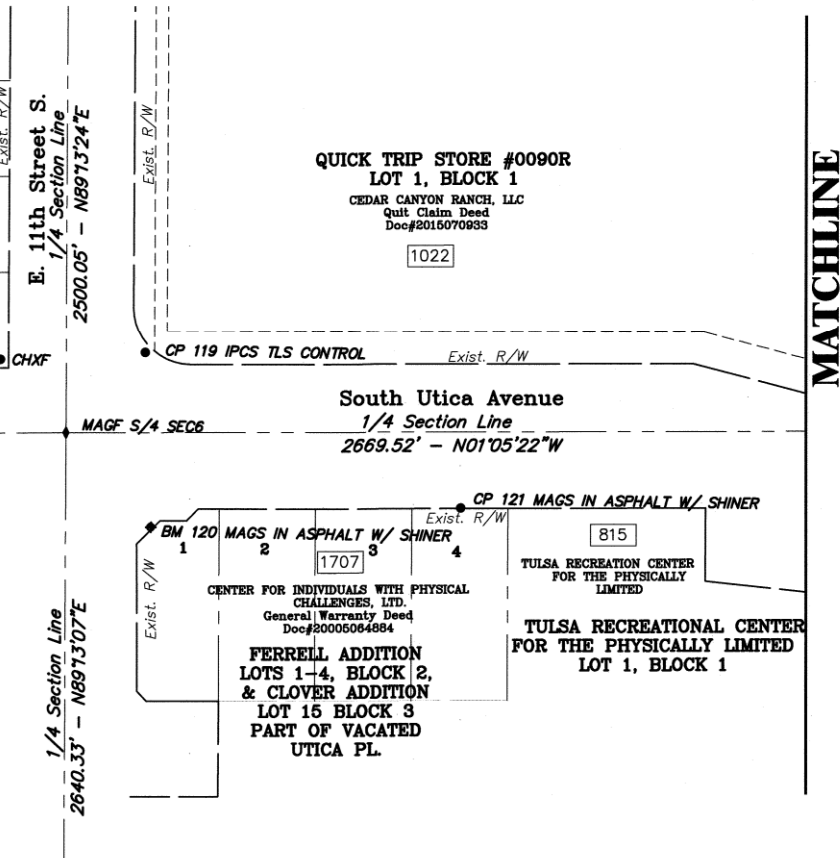
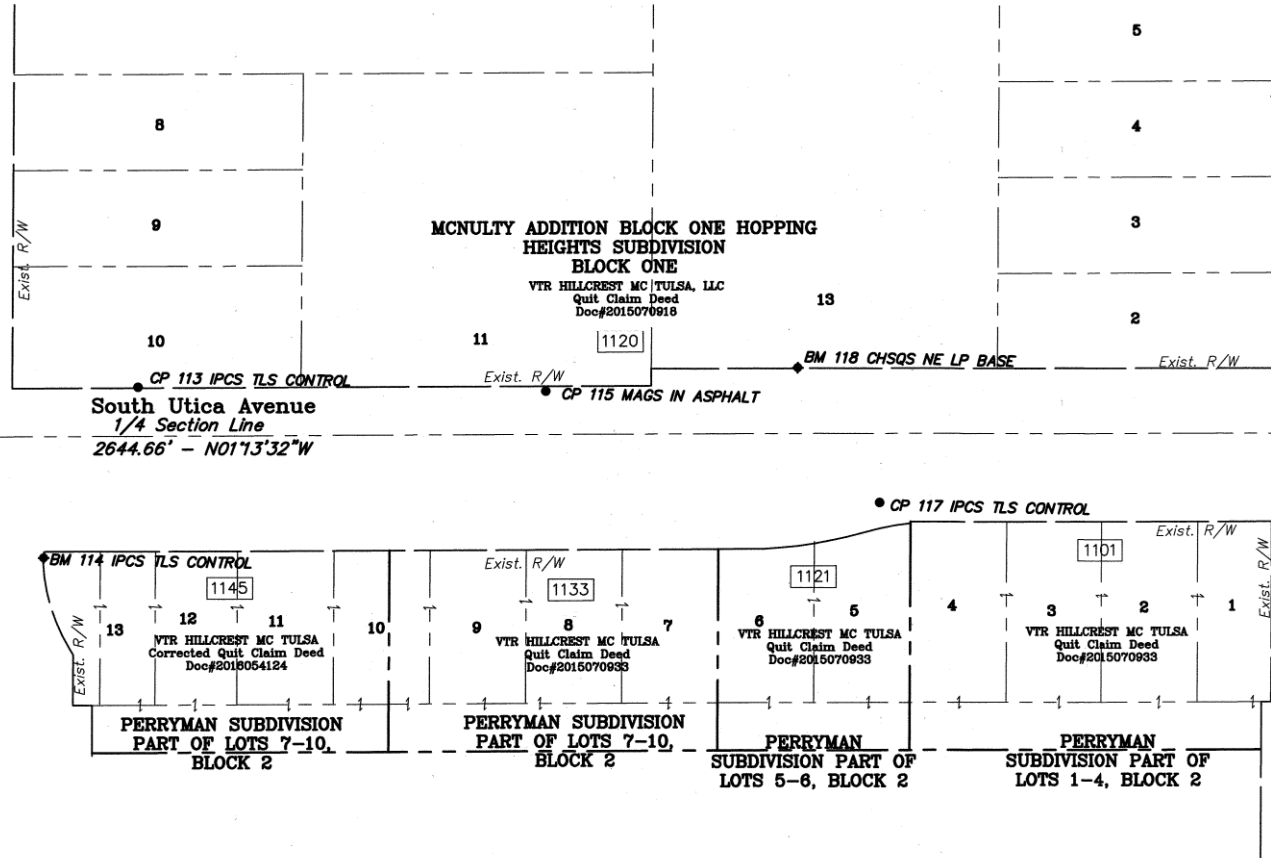
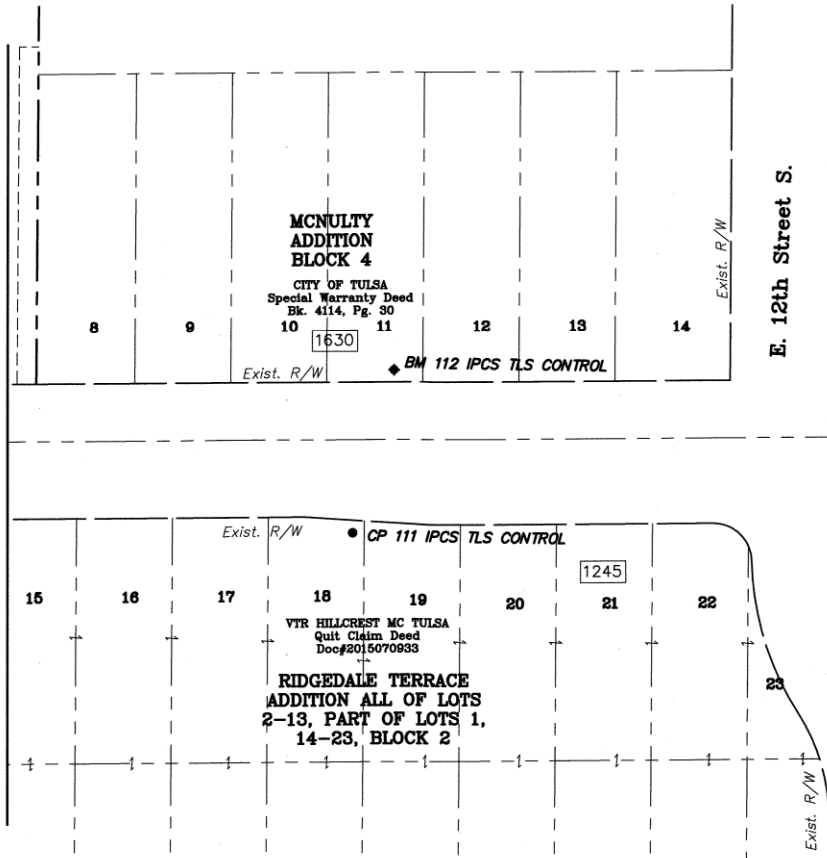
E. Dane Trout, P.L.S. #1893

SURVEYORS CERTIFICATE

I, E. Dane Trout of Tulsa County, State of Oklahoma, and a Professional Surveyor, do hereby certify that the above shown survey is true and correct to the best of my knowledge. WITNESS MY HAND AND SEAL THIS 17th DAY OF SEP, 2024

SURVEY DATA SHEET (1)				
PROJ. 144017-W, 144017-AX				
ARTERIAL STREET REHABILITATION SOUTH UTICA AVENUE				
E. 11th ST. S. TO E. 15th ST. S.				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
TROUT LAND SURVEYING, LLC 916.734.3423 - 5710 S. Garnett Tulsa, OK 74146 CA 7312 (LS) 6/30/2017				
REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:
			1" = 50'	DT 4/17
				DESIGNED BY: DT 4/17
				SURVEY BY: TLS 1/17
			PROFILE SCALE:	PROJ. MGR. Mpm 9/2024
				LEAD ENGR. 5/20
			HORIZONTAL:	FIELD MGR. 12/16/25
			N/A	RECOMMENDED: HAJ 8-25
			N/A	DESIGN MANAGER
FILE:	DRAWING:		DATE:	8/22/2025
ATLAS PAGE NO.: 2, 3			SHEET 18	OF 77 SHEETS

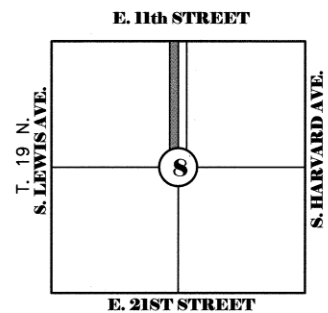
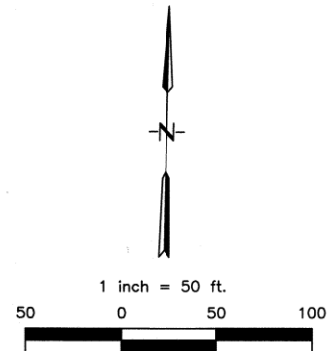
MATCHLINE



MATCHLINE

CONTROL POINTS				
Pnt. NO.	Northing	Easting	Elevation	Description
100	421444.4800	2568767.3340	748.101	CP 100 CHXS
117	423880.8540	2568684.9140	737.010	CP 117 IPCS TLS CONTROL
109	422854.7240	2568621.8010	757.371	CP 109 CHXF
101	421541.6460	2568664.3920	751.100	CP 101 IPCF
111	423173.6900	2568712.4280	762.170	CP 111 IPCS TLS CONTROL
103	421860.3520	2568737.7700	748.990	CP 103 IPCS TLS CONTROL
105	422191.4910	2568739.2350	752.331	CP 105 IPCS TLS CONTROL
107	422426.3190	2568626.0380	753.370	CP 107 IPCS TLS CONTROL
115	423706.1094	2568630.1406	753.290	CP 115 MAGS IN ASPHALT
119	424161.8520	2568601.2100	730.181	CP 119 IPCS TLS CONTROL
121	424327.2040	2568679.7280	724.550	CP 121 MAGS IN ASPHALT W/ SHINER
122	422663.5600	2568718.3590	756.518	CP 122 IPCS TLS CONTROL
113	423494.1330	2568631.7390	756.890	CP 113 IPCS TLS CONTROL

BENCHMARKS				
Pnt. NO.	Northing	Easting	Elevation	Description
5	429170.4350	2568517.2720	751.591	BM
110	422850.0150	2568711.3650	759.401	BM 110 IPCS TLS CONTROL
102	421597.2920	2568659.3370	751.645	BM 102 CHSQS ON CURB
6	429170.4400	2568517.2740	751.560	BM
112	423193.6590	2568627.4490	760.271	BM 112 IPCS TLS CONTROL
104	421858.7040	2568640.5600	750.231	BM 104 IPCS TLS CONTROL
8	424128.6830	2571530.6850	746.043	BM 2016-18
106	422190.6150	2568626.8930	753.071	BM 106 CHSQS NORTH SIDE OF TSCB CONC PAD
108	422514.4650	2568744.6920	756.429	BM 108 IPCS TLS CONTROL
114	423446.7270	2568721.3730	758.090	BM 114 IPCS TLS CONTROL
118	423836.9470	2568615.5620	740.750	BM 118 CHSQS NE LP BASE
120	424166.2760	2568692.3740	728.031	BM 120 MAGS IN ASPHALT W/ SHINER
123	422673.1530	2568619.0130	754.690	BM 123 IPCS TLS CONTROL




E. DANE TROUT, P.L.S. #1893

SURVEYORS CERTIFICATE

I, E. Dane Trout of Tulsa County, State of Oklahoma, and a Professional Surveyor, do hereby certify that the above shown survey is true and correct to the best of my knowledge.
WITNESS MY HAND AND SEAL THIS 18th DAY OF SEP 2024

SURVEY DATA SHEET (2)	
PROJ. 144017-W, 144017-AX	
ARTERIAL STREET REHABILITATION SOUTH UTICA AVENUE E. 11th ST. S. TO E. 15th ST. S.	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	

TROUT LAND SURVEYING, LLC	
915.731.3423 • 5710 S. Garnett Tulsa, OK 74146 CA 7312 (LS) 6/30/2017	
PLAN SCALE: 1" = 50'	DRAWN BY: DT 4/17
DESIGNED BY: DT 4/17	SURVEY BY: TLS 1/17
PROFILE SCALE: N/A	PROJ. MGR. 9/2024
HORIZONTAL: N/A	LEAD ENGR. 5/25
VERTICAL: N/A	FIELD MGR. 6/25
RECOMMENDED: N/A	DESIGN MANAGER: B-25
FILE: 144017-W, 144017-AX	DRAWING: 8/22/2025
ATLAS PAGE NO.: 2, 3	SHEET 19 OF 77 SHEETS

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-GE01.dwg, 240813 - 2:18 PM, DEP

B.O.P.
STA. 14+65.55
N 421872.61, E 2568693.34

PC STA=14+46.26
N=421840.75
E=2568695.63
R=1500.00'
L=2947.10'

PT STA=15+11.35
N=421905.76
E=2568692.47

N1°32'30"W
196.16'

STA=16+90.47
OFFSET=77.62' R
N=422086.90
E=2568765.24

STA=17+06.15
OFFSET=65.73' L
N=422098.72
E=2568621.52

PI STA=17+07.51
N=422101.85
E=2568687.19

PI STA=17+90.70
N=422185.04
E=2568686.28

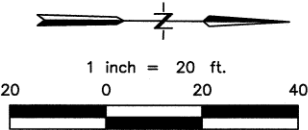
N0°37'50"W
83.19'

N1°14'00"W
284.23'

S. UTICA AVE.

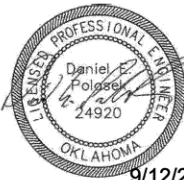
E. 14th STREET

MATCH LINE STA. 19+50
SEE SHEET 21



LEGEND

PROG. DRIVEWAY

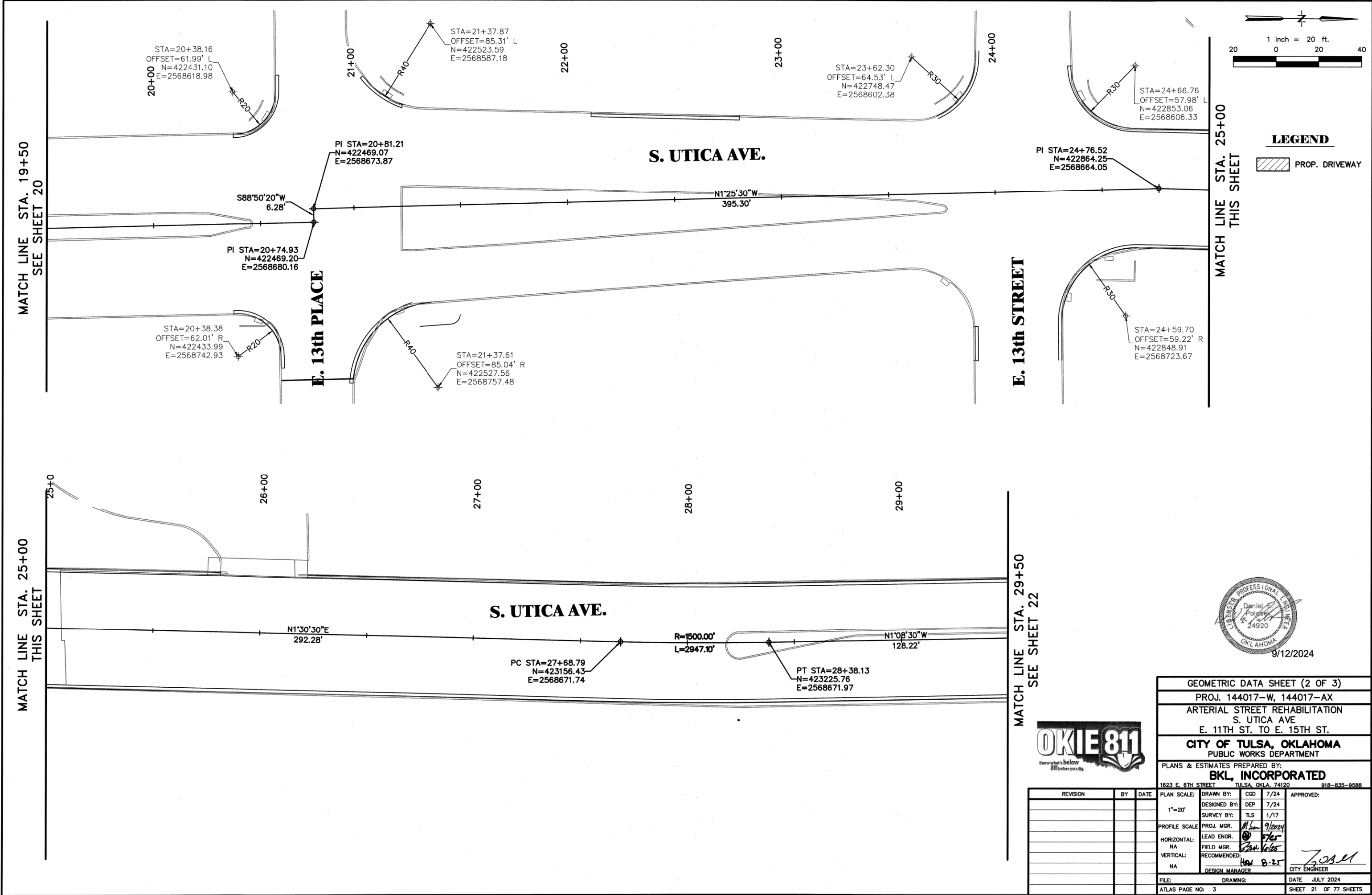


9/12/2024



GEOMETRIC DATA SHEET (1 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	PLAN SCALE: DRAWN BY: CGD 7/24
			DESIGNED BY: DEP 7/24
			SURVEY BY: TLS 1/17
			PROFILE SCALE: PROJ. MGR. M. 9/20/24
			LEAD ENGR. W. 9/20/24
			HORIZONTAL: NA FIELD MGR. K. 8/25
			VERTICAL: NA RECOMMENDED: K. 8/25
			DESIGN MANAGER
			FILE: DRAWING: DATE JULY 2024
			ATLAS PAGE NO: 3 SHEET 20 OF 77 SHEETS

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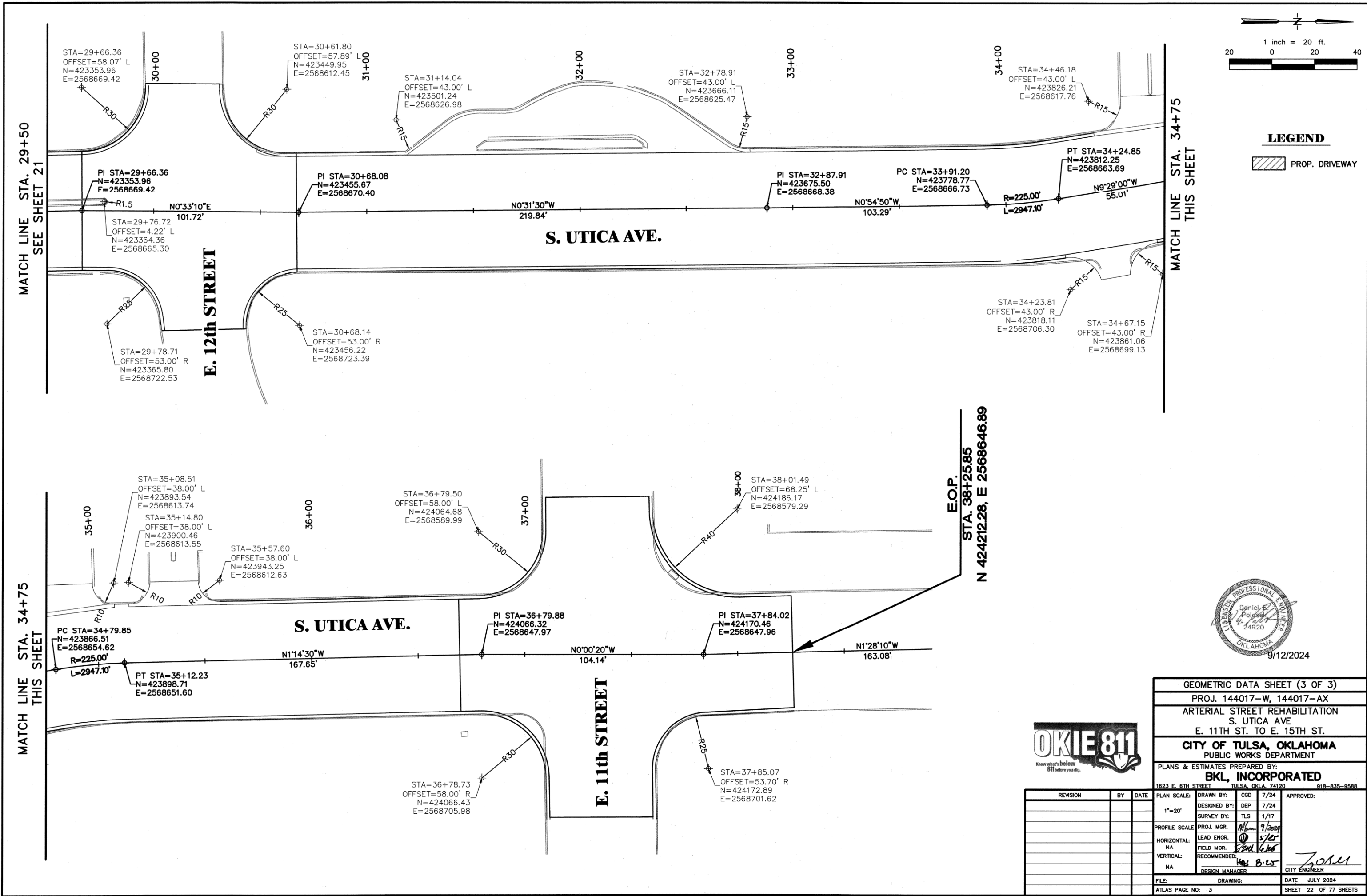


9/12/2024



GEOMETRIC DATA SHEET (2 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
1"=20'	DESIGNED BY:	DEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	M. Ziem	9/2024
HORIZONTAL:	LEAD ENGR.	JD	5/25
	FIELD MGR.	Dan	6/26
VERTICAL:	RECOMMENDED:	Ray	8-25
NA	DESIGN MANAGER		CITY ENGINEER
FILE:	DRAWING:		DATE JULY 2024
ATLAS PAGE NO: 3		SHEET 21 OF 77 SHEETS	

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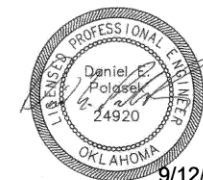


9/12/2024

GEOMETRIC DATA SHEET (3 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
PLAN SCALE:	DRAWN BY:	CGD	7/24
DESIGNED BY:	DEP	7/24	
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HORIZONTAL:	LEAD ENGR.	5/25	
VERTICAL:	FIELD MGR.	6/25	
RECOMMENDED:	DESIGN MANAGER	H. B. 5/25	
FILE:	DRAWING:		
ATLAS PAGE NO:	3		
APPROVED:			
CITY ENGINEER			
DATE	JULY 2024		
SHEET	22 OF 77 SHEETS		

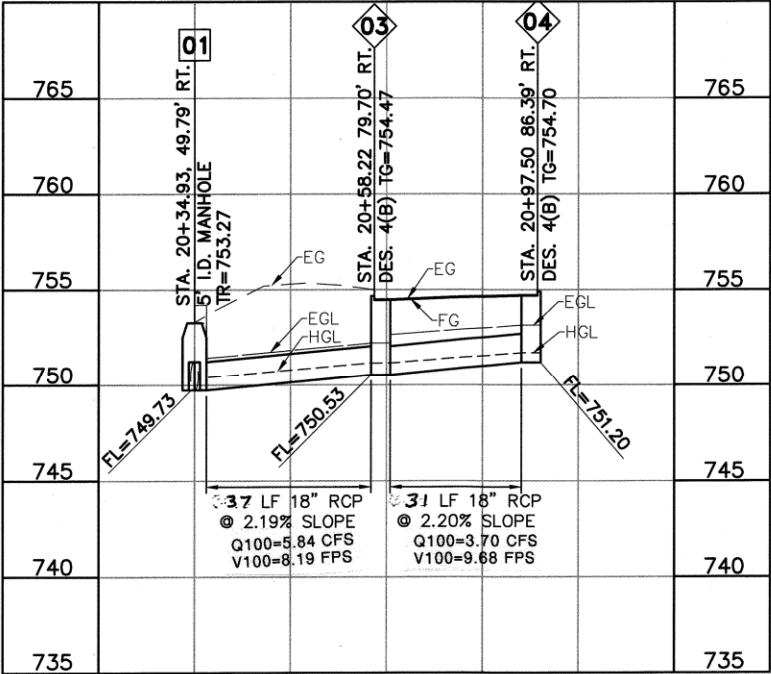
SUMMARY OF DRAINAGE STRUCTURES																						
STR. NO.	STATION/OFFSET	NORTHING	EASTING	DESCRIPTION	DESIGN	ELEV. TOP OF GRATE (CI INLET)	ELEV. TOP OF COVER (MANHOLE)	FL. ELEV. BOTTOM OF INLET, MANHOLE OR JCT. BOX	STRUCTURE DEPTH	PIPE SLOPE	PIPE FLOWLINE UPSTREAM	PIPE FLOWLINE DOWNSTREAM	MANHOLE (4' DIAMETER)	MANHOLE (5' DIAMETER)	MANHOLE (6' DIAMETER)	INLET CI DES. 2	INLET CI DES. 2 W/ACCESS MANHOLE	INLET CI DES. 2(D)	INLET CI DES. 3(A)	INLET CI DES. 4(B)	REINFORCED CONCRETE PIPE	
													611 (A)			611 (G)	611 (G)	611 (G)	611 (G)	611 (G)	18"	24"
													EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
						FT	FT	FT	FT	FT/FT	FT	FT	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	
Inlet-1	17+26.22, 58.95' RT	422121.21	2568745.93	CONS. CAST IRON CURB INLET	3(A)	750.79	-	746.99	3.80	-			-	-	-	-	-	-	1	-	-	-
Inlet-2	17+28.76, 52.82' LT	422122.51	2568634.15	CONS. CAST IRON CURB INLET	2	751.03	-	745.65	5.38	-			-	-	-	1	-	-	-	-	-	-
Inlet-3	20+58.22, 79.70' RT	422454.20	2568760.20	CONS. CAST IRON CURB INLET W/36.5 LF 18" RCP TO SWMH-1	4(B)	754.47	-	750.53	3.94	2.19			-	-	-	-	-	-	-	1	38	-
Inlet-4	20+97.50, 86.39' RT	422487.56	2568759.83	CONS. CAST IRON CURB INLET W/30.5 LF 18" RCP TO INLET 3	4(B)	754.70	-	751.20	3.50	2.20			-	-	-	-	-	-	-	1	32	-
Inlet-5	21+38.29, 44.92' RT	422527.24	2568717.36	CONS. CAST IRON CURB INLET W/55.5 LF 18" RCP TO SWMH-2	2(D)	753.64	-	750.14	3.50	0.47			-	-	-	-	-	1	-	-	52	-
Inlet-6	34+00.00, 28.00' RT	423789.08	2568695.05	CONS. CAST IRON CURB INLET W/ 23.87 LF 18" RCP TO SWMH-3	2	741.68	-	738.17	3.51	5.58			-	-	-	1	-	-	-	-	24	-
Inlet-7	34+00.00, 28.00' LT	423786.03	2568637.79	CONS. CAST IRON CURB INLET W/ 29.51 LF 18" RCP TO SWMH-3	2	741.68	-	738.17	3.51	2.63			-	-	-	1	-	-	-	-	30	-
Inlet-8	36+75.25, 28.00' RT	424062.27	2568676.07	CONS. CAST IRON CURB INLET W/ 16.00 LF 18" RCP TO SWMH-4	2	728.69	-	726.08	2.61	0.50			-	-	-	1	-	-	-	-	16	-
Inlet-9	36+75.25, 28.00' LT	424061.13	2568620.08	CONS. CAST IRON CURB INLET W/ ACCESS MH W/ 33.00 LF 18" RCP TO SWMH-4	2	730.34	-	726.08	4.26	1.24			-	-	-	1	-	-	-	-	34	-
Inlet-10	37+08.15, 67.85' LT	424094.59	2568580.12	CONS. CAST IRON CURB INLET W/ACCESS MH W/22.50 LF 18" RCP TO SWMH-6	2 W/MH	731.13	-	726.00	5.13	4.56			-	-	-	-	1	-	-	-	24	-
Inlet-11	37+59.66, 70.98' LT	424146.09	2568576.98	CONS. CAST IRON CURB INLET W/46.00 LF 18" RCP TO INLET 10	2	730.79	-	727.35	3.44	2.92			-	-	-	1	-	-	-	-	46	-
SWMH-1	20+34.93, 49.79' RT	422430.27	2568730.80	CONS. 5' I.D. MANHOLE	STD. 5' MH	-	753.27	749.73	3.54	-			-	1	-	-	-	-	-	-	-	-
SWMH-2	20+83.86, 21.08' RT	422472.24	2568694.88	CONS. 5' I.D. MANHOLE W/50.5 LF 18" RCP TO SWMH-1	STD. 5' MH	-	753.43	749.88	3.55	0.30			-	1	-	-	-	-	-	-	52	-
SWMH-3	34+00.00, 2.82' RT	423787.75	2568699.23	CONS. 4' I.D. MANHOLE W/161.1 LF 18" RCP TO SWMH-4	STD 4' MH	-	741.75	737.08	4.67	4.88			1	-	-	-	-	-	-	-	160	-
SWMH-4	35+62.09, 8.50' RT	423948.74	2568659.02	CONS. 4' I.D. MANHOLE W/109.50 LF 18" RCP TO SWMH-5	STD 4' MH	-	733.88															

SEE STORM PROFILES FOR HGL, EGL, Q100 & V100.

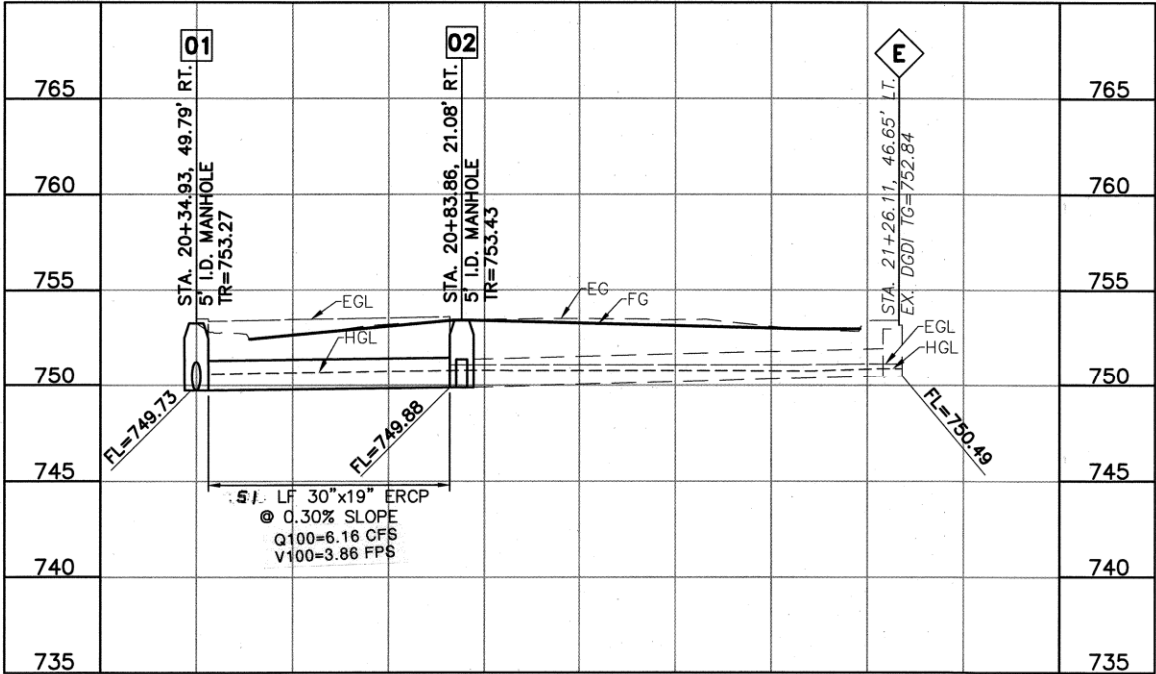


STORMWATER STRUCTURE SUMMARY			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CBD	7/24
	DESIGNED BY:	DEP	7/24
NA	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	<i>11/2m</i>	<i>10/28/24</i>
	LEAD ENGR.	<i>BOC</i>	<i>12/24</i>
HORIZONTAL:	FIELD MGR.	<i>22m</i>	<i>6/6</i>
VERTICAL:	RECOMMENDED:	<i>12m</i>	<i>2/6m</i>
	DESIGN MANAGER		
			CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 23 OF 77 SHEETS	

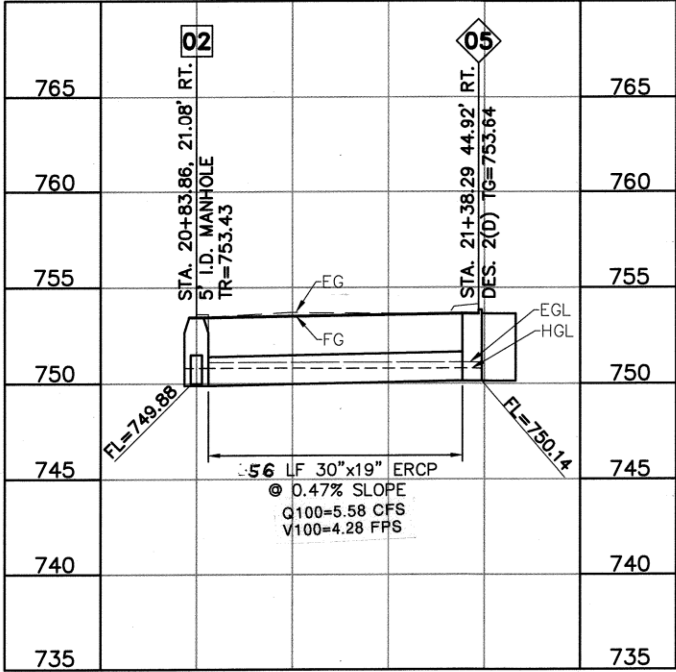
SWMH 01 TO INLET 04



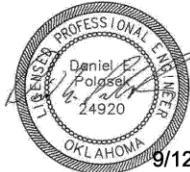
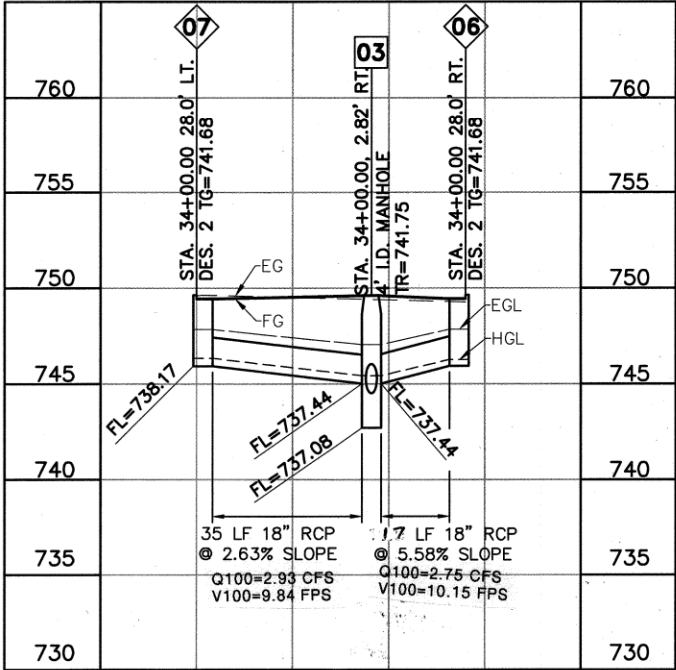
SWMH 01 TO SWMH 02



SWMH 02 TO INLET 05



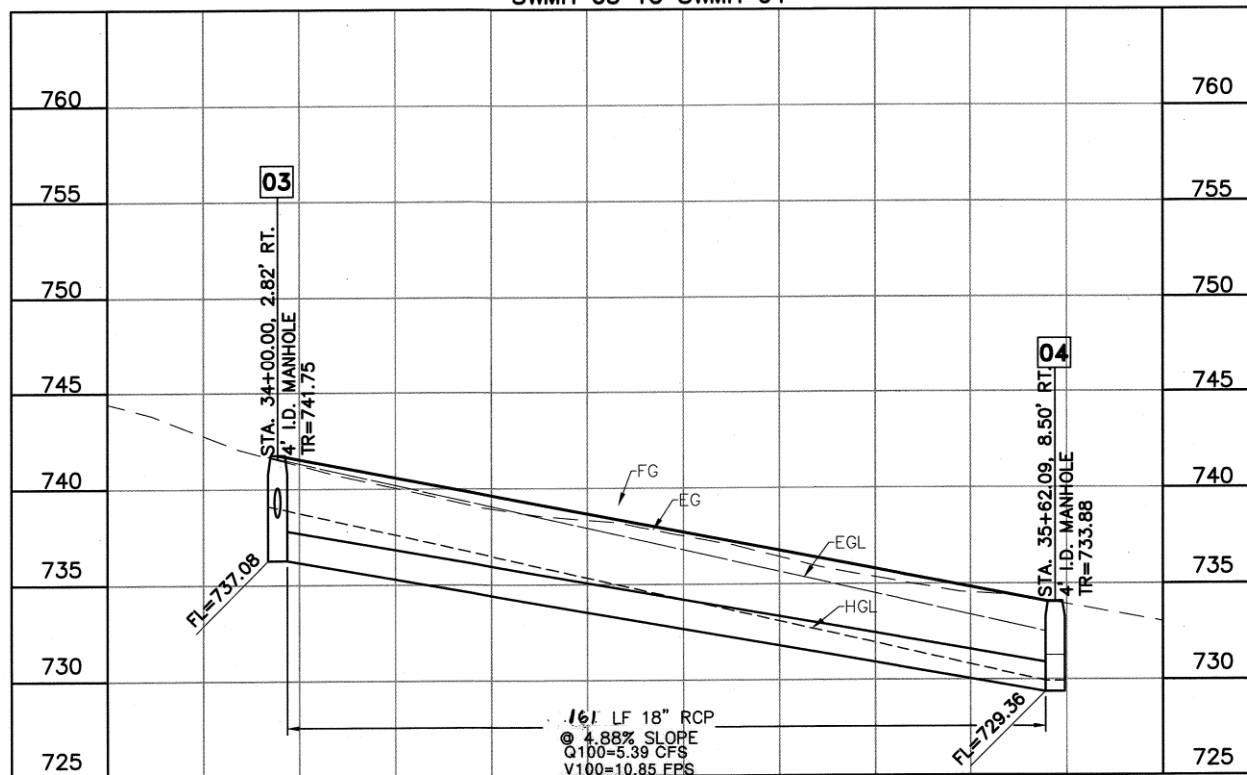
INLET 07 TO INLET 06



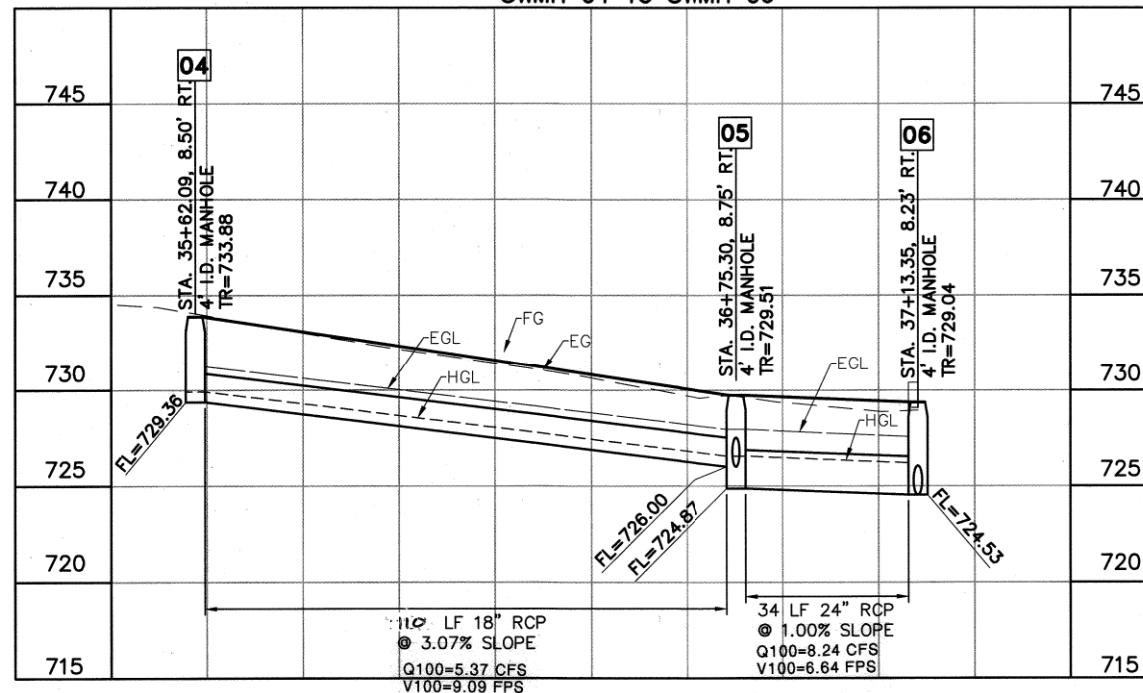
STORMWATER PROFILES (1 OF 2)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD	7/24
DESIGNED BY:	DEP	7/24	
SURVEY BY:	TLS	1/17	
PROFILE SCALE:	PROJ. MGR.	WZ	10/24
HORIZONTAL:	LEAD ENGR.	806	12/24
1"=20'	FIELD MGR.	12/24	
1"=5'	RECOMMENDED:	2 m	
	DESIGN MANAGER		
FILE:	DRAWING:		
ATLAS PAGE NO: 3	DATE:	JULY 2024	
			SHEET 24 OF 77 SHEETS

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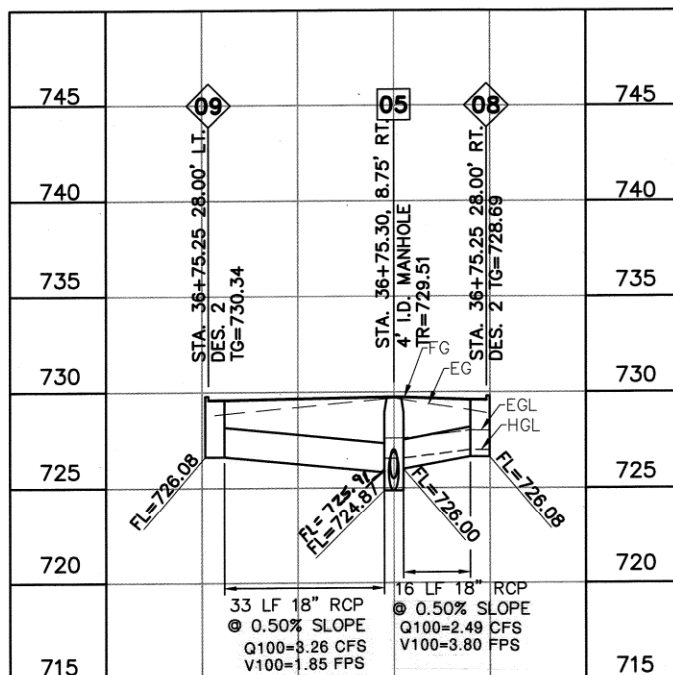
SWMH 03 TO SWMH 04



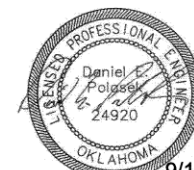
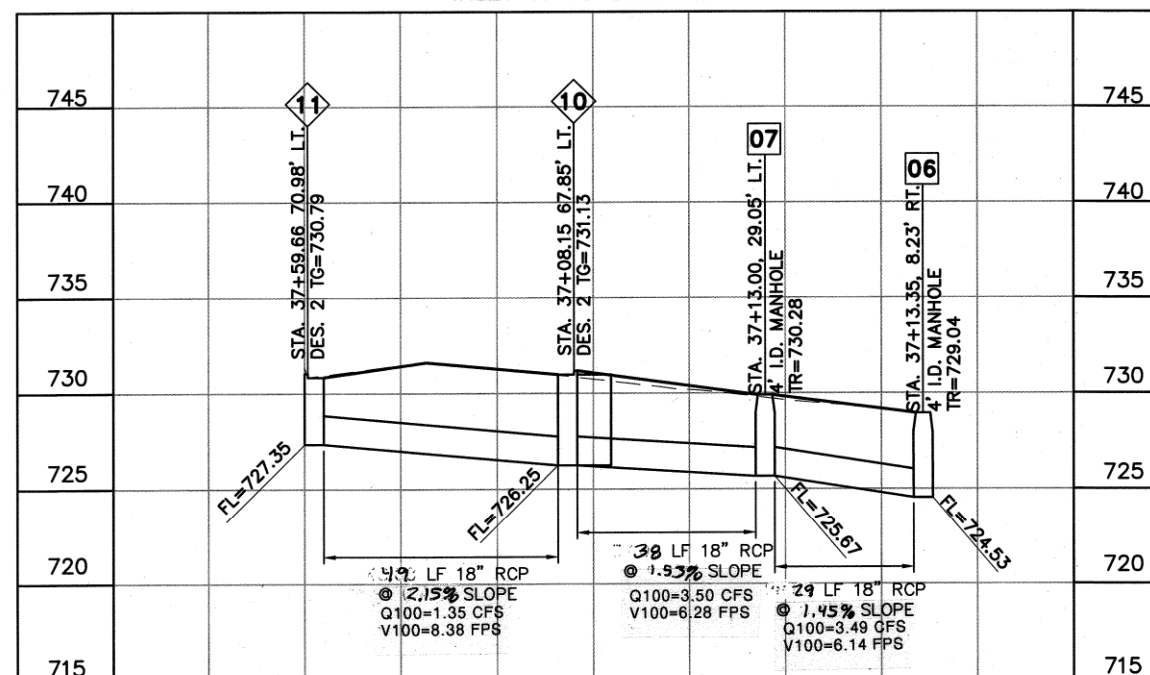
SWMH 04 TO SWMH 06



INLET 09 TO INLET 08



INLET 11 TO SWMH 06



9/12/2024

STORMWATER PROFILES (2 OF 2)

PROJ. 144017-W, 144017-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE

E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA

PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



REVISION		BY	DATE	1623 E. 6TH STREET TULSA, OKLA 74120		918-255-9200	APPROVED: <
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SHEET 25 OF 77 SHEETS

STORMWATER MANAGEMENT PLAN

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: UTICA AVE. BETWEEN 11TH ST. AND 15TH ST.

PROJECT DESCRIPTION: ARTERIAL REHABILITATION. PAVEMENT REHABILITATION, STORM SEWER DESIGN.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL INSTALL ALL PERIMETER TEMPORARY SEDIMENT CONTROLS SPECIFIED. STRIP, STOCKPILE AND STABILIZE TOPSOIL. CLEAR AND GRUB ONLY IN NECESSARY AREAS, PRESERVING AS MUCH NATIVE VEGETATION AS POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE TEMPORARY SEDIMENT ITEMS WITH CONSTRUCTION OPERATIONS AS PRACTICAL IF DIRECTED BY THE ENGINEER, PLANT TEMPORARY SEEDING. REPLACE SALVAGED TOPSOIL AND DEVICES WHEN AN ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%) HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE CONTRACTOR MAY CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS AS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL MAINTAIN A LOG OF THE DATES OF MAJOR SOIL DISTURBANCE ACTIVITIES, AND ALSO THE DATES OF INSTALLATION OF EROSION CONTROL MEASURES.

SOIL TYPE: URBAN LAND-DENNIS COMPLEX 0 TO 5 PERCENT SLOPES

TOTAL AREA OF THE CONSTRUCTION SITE: 4.50 ACRES

ESTIMATED AREA TO BE DISTURBED: 4.50 ACRES

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 2.37 ACRES

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 2.37 ACRES

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.95

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36° 08' 39" N., 95° 58' 02" W.

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: ELM CREEK, SWAN CREEK AND ARKANSAS RIVER

SENSITIVE WATERS OR WATERSHEDS: YES ☒ NO ☐

303 (d) IMPAIRED WATERS: YES ☒ NO ☐

IF YES, LIST IMPAIRMENT: CADMIUM, 5A

LOCATED IN A TMDL: YES ☐ NO ☒

LAKE THUNDERBIRD TMDL: YES ☐ NO ☒

MS4 ENTITY YES ☒ NO ☐

IF YES, LOCATION: CITY OF TULSA

NOTE: THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.

SOIL STABILIZATION PRACTICES:

☐ TEMPORARY SEEDING

☒ PERMANENT SODDING, SPRIGGING OR SEEDING

☐ VEGETATIVE MULCHING

☐ SOIL RETENTION BLANKET

☒ PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

☐ STABILIZED CONSTRUCTION EXIT

☒ TEMPORARY SILT FENCE

☒ TEMPORARY SILT DIKES

☐ TEMPORARY FIBER LOG

☐ DIVERSION, INTERCEPTOR OR PERIMETER DIKES

☐ DIVERSION, INTERCEPTOR OR PERIMETER SWALES

☐ ROCK FILTER DAMS

☐ TEMPORARY SLOPE DRAIN

☐ PAVED DITCH W/ DITCH LINER PROTECTION

☐ TEMPORARY DIVERSION CHANNELS

☐ TEMPORARY SEDIMENT BASINS

☐ TEMPORARY SEDIMENT TRAPS

☐ TEMPORARY SEDIMENT FILTERS

☒ TEMPORARY SEDIMENT REMOVAL

☐ RIP RAP

☒ INLET SEDIMENT FILTER

☐ TEMPORARY BRUSH SEDIMENT BARRIERS

☐ SANDBAG BERMS

☐ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

☐ HAUL ROADS DAMPENED FOR DUST CONTROL

☒ LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN

☒ EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

- 103.05 BONDING REQUIREMENTS
- 104.10 FINAL CLEANING UP
- 104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK
- 104.13 ENVIRONMENTAL PROTECTION
- 106.08 STORAGE AND HANDLING OF MATERIAL
- 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
- 107.20 STORM WATER MANAGEMENT
- 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL

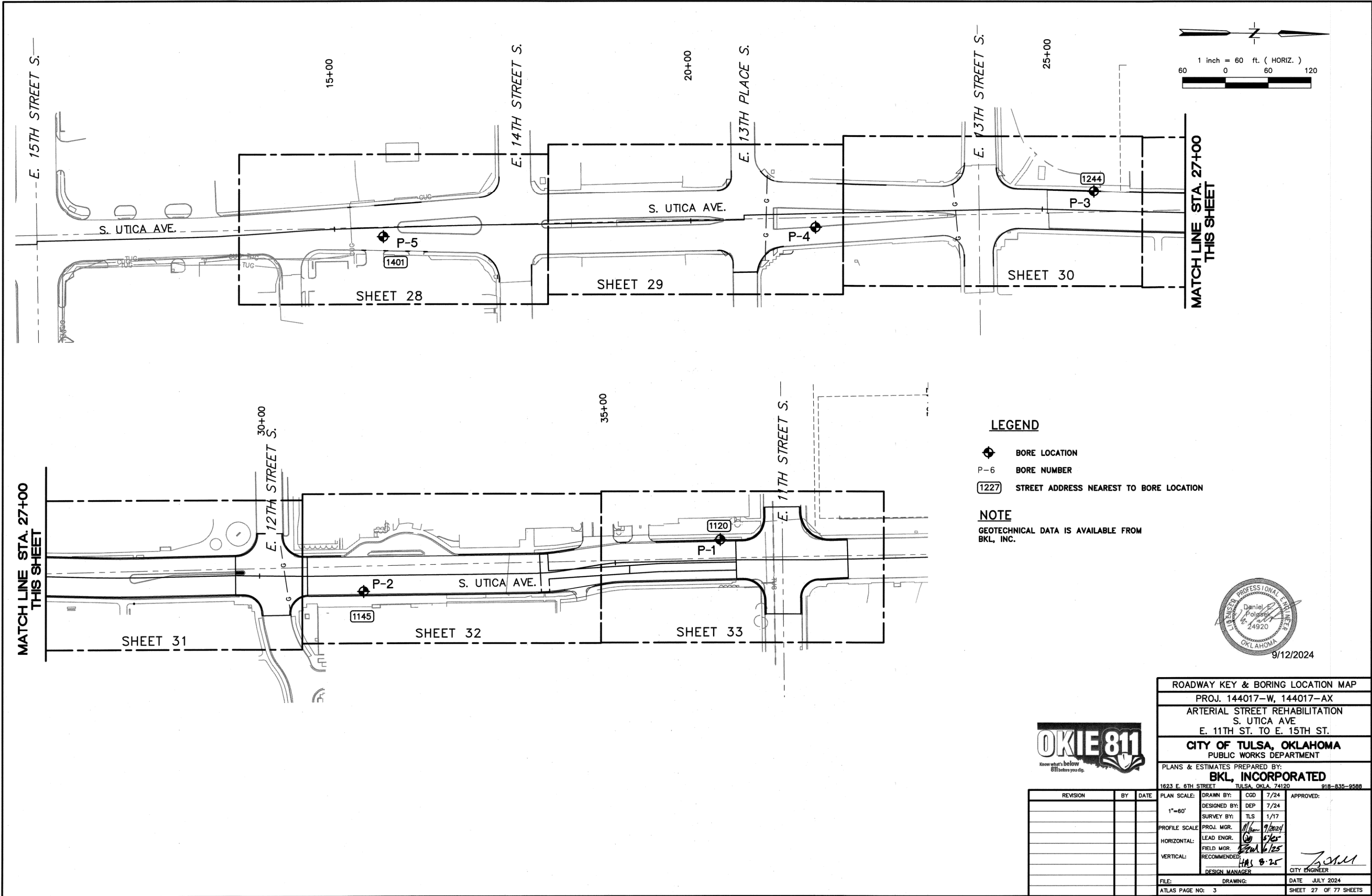
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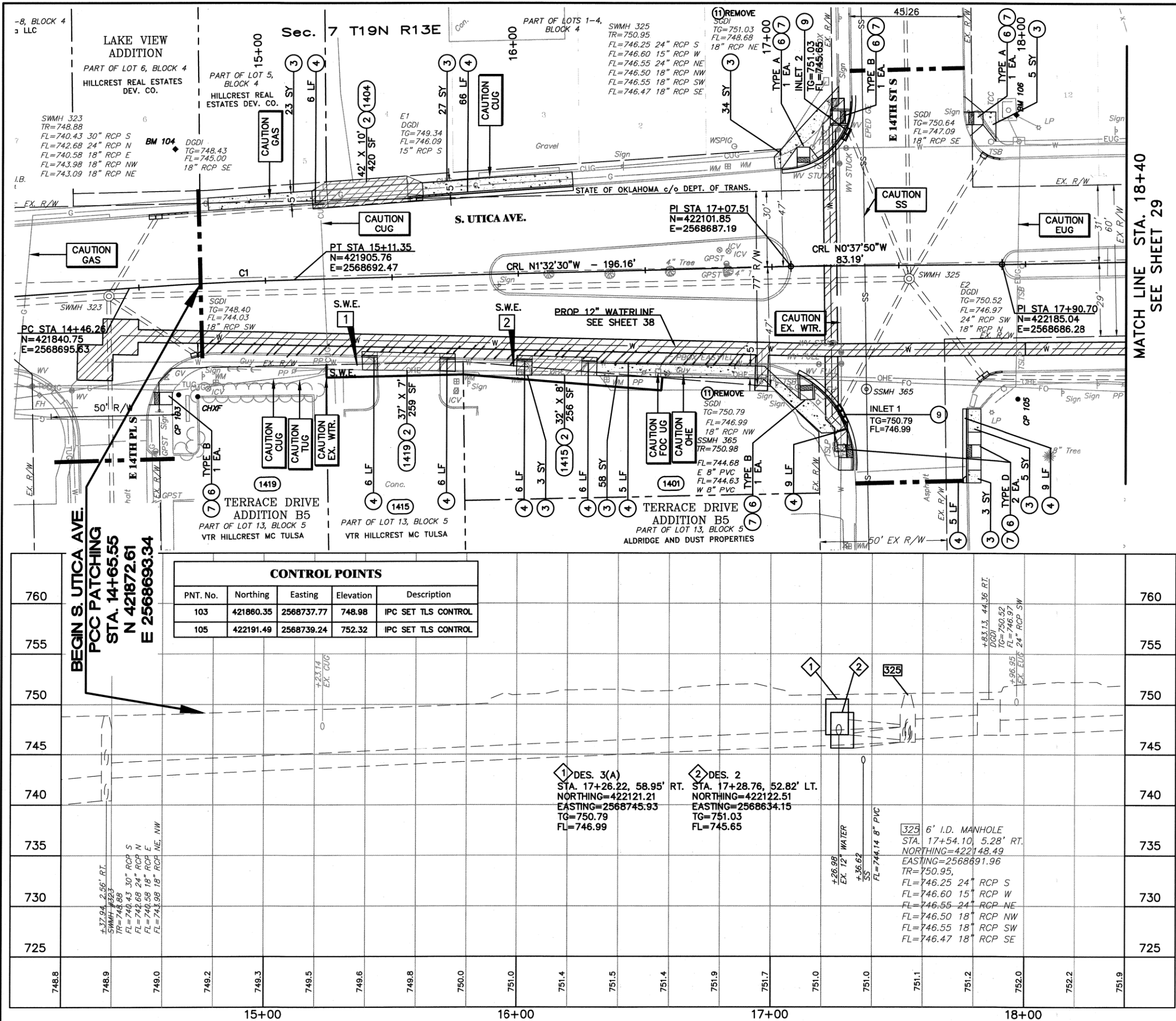
"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, NOVEMBER 1, 2023.



STORMWATER MANAGEMENT PLAN			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	
NA	DESIGNED BY:	DEP 7/24	
PROFILE SCALE:	SURVEY BY:	TLS 1/17	
NA	PROJ. MGR.	Mem 10/20/24	
HORIZONTAL:	LEAD ENGR.	BKL 12/24	
NA	FIELD MGR.	BLW 6/25	CITY ENGINEER
VERTICAL:	RECOMMENDED:	BLW 6/25	
NA	DESIGN MANAGER		
FILE:	DATE	JULY 2024	
ATLAS PAGE NO:	3		SHEET 26 OF 77 SHEETS

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-LM01.dwg, 240813 - 2:19 PM, DEP

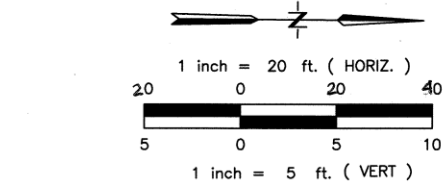




Bench Mark #104
IRON PIN W/CAP SET,
TLS CONTROL
N=421858.70
E=2568640.56
ELEV. 750.23

Bench Mark #106
CHISELED SQUARE SET,
NORTH SIDE OF TSCB
CONC PAD
N=422190.62
E=2568626.89
ELEV. 753.06

CURVE DATA	
DA=	02°29'11"
D=	3'49'11"
T=	32.55
L=	65.10
R=	1500.00
PC STA=	14+46.26
PT STA=	15+11.35



- REPAIR LEGEND:**
- FULL DEPTH APC PATCH
 - FULL DEPTH ASPHALT
 - FULL DEPTH PC CONCRETE PATCH
 - FULL DEPTH PC CONCRETE
 - PC CONCRETE DRIVE
 - PC CONCRETE SIDEWALK
 - MILL AND OVERLAY
 - 1'-4" PATTERNED SIDEWALK
 - PROPOSED WATERLINE BASE BID
 - PROPOSED WATERLINE ADD ALT
- ASPHALT MILL AND OVERLAY
 - REMOVE AND REPLACE EXISTING DRIVE WITH PC CONCRETE DRIVE
 - REMOVE AND REPLACE EXISTING SIDEWALK WITH PC CONCRETE SIDEWALK
 - REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - ADJUST TO GRADE
 - CONSTRUCT HANDICAP RAMP
 - CONSTRUCT TRUNCATED DOMES
 - CONSTRUCT MANHOLE
 - CONSTRUCT INLET
 - CONSTRUCT PC CONCRETE MEDIAN
 - REMOVE INLET
 - CONSTRUCT 1'-4" PATTERNED SIDEWALK
 - FULL DEPTH PC CONCRETE
 - FULL DEPTH AC PATCH
 - FULL DEPTH PC CONCRETE PATCH
- PROJECT LIMITS
1111 NEAREST ADDRESS



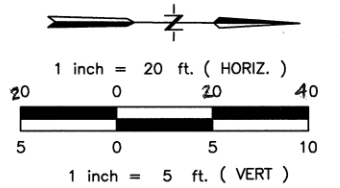
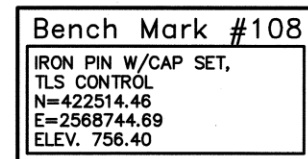
ROADWAY PLAN & PROFILE (1 OF 6)
PROJ. 144017-W, 144017-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED
1623 E. 6TH STREET, TULSA, OKLA. 74120 918-835-9588



REVISION	BY	DATE

PLAN SCALE: 1"=20'	DRAWN BY: CGD 7/24	DESIGNED BY: DEP 7/24	SURVEY BY: TLS 1/17	PROJ. MGR. M/S 9/2024	LEAD ENGR. W 5/25	FIELD MGR. P 6/15	RECOMMENDED: H 8/25	DESIGN MANAGER: H 8/25	CITY ENGINEER: [Signature]
HORIZONTAL: 1"=20'	PROFILE SCALE: 1"=5'	FILE: [Blank]	DRAWING: [Blank]	DATE: JULY 2024	ATLAS PAGE NO: 3	SHEET 28 OF 77 SHEETS			



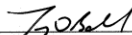
REPAIR LEGEND:

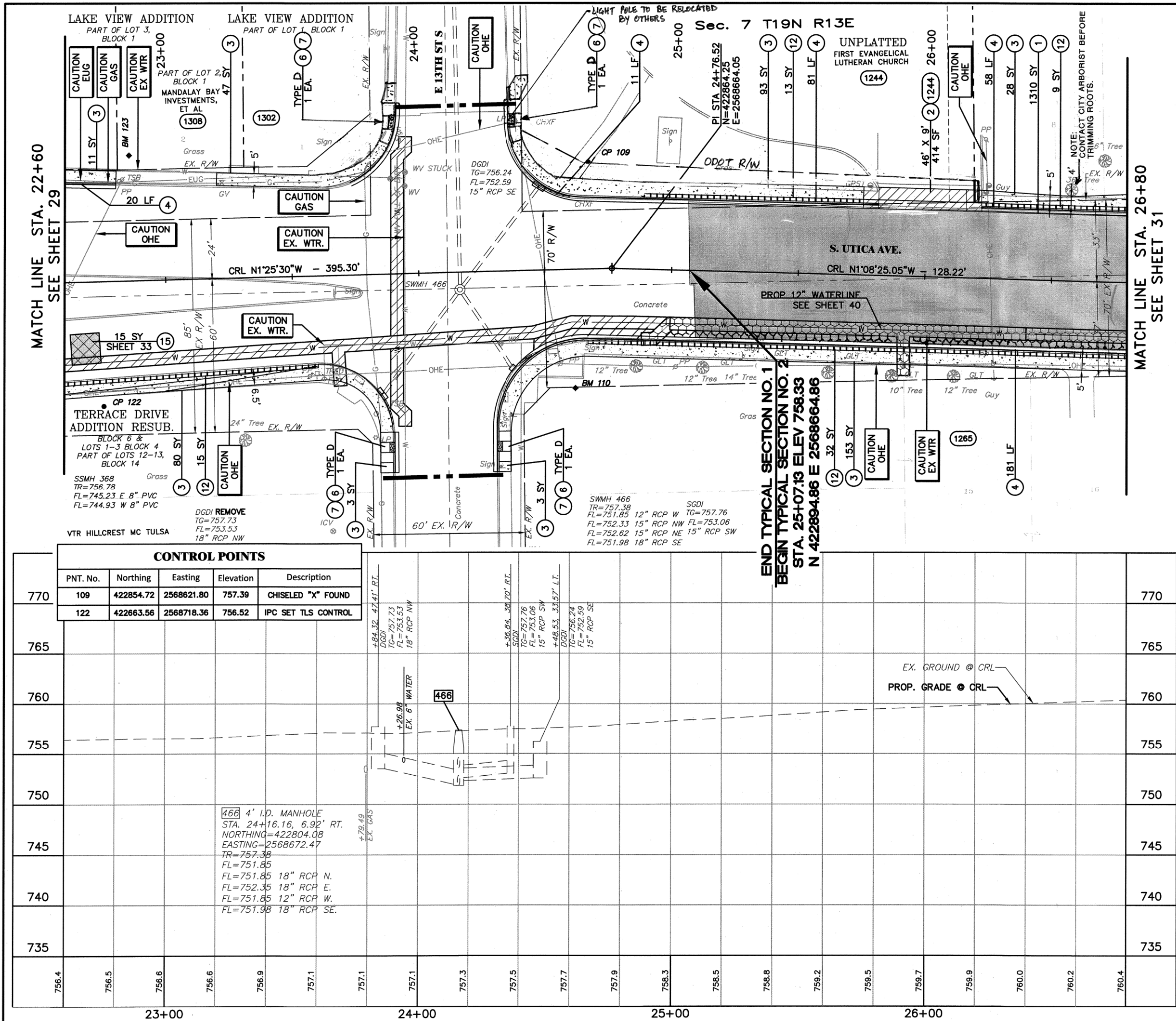
- | | |
|--|------------------------------|
| | FULL DEPTH APC PATCH |
| | FULL DEPTH ASPHALT |
| | FULL DEPTH PC CONCRETE PATCH |
| | FULL DEPTH PC CONCRETE |
| | PC CONCRETE DRIVE |
| | PC CONCRETE SIDEWALK |
| | MILL AND OVERLAY |
| | 1'-4" PATTERNED SIDEWALK |
| | PROPOSED WATERLINE BASE BID |
| | PROPOSED WATERLINE ADD ALT |
- ① ASPHALT MILL AND OVERLAY
 - ② REMOVE AND REPLACE EXISTING DRIVE WITH PC CONCRETE DRIVE
 - ③ REMOVE AND REPLACE EXISTING SIDEWALK WITH PC CONCRETE SIDEWALK
 - ④ REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - ⑤ ADJUST TO GRADE
 - ⑥ CONSTRUCT HANDICAP RAMP
 - ⑦ CONSTRUCT TRUNCATED DOMES
 - ⑧ CONSTRUCT MANHOLE
 - ⑨ CONSTRUCT INLET
 - ⑩ CONSTRUCT PC CONCRETE MEDIAN
 - ⑪ REMOVE INLET
 - ⑫ CONSTRUCT 1'-4" PATTERNED SIDEWALK
 - ⑬ FULL DEPTH PC CONCRETE
 - ⑭ FULL DEPTH AC PATCH
 - ⑮ FULL DEPTH PC CONCRETE PATCH

PROJECT LIMITS
NEAREST ADDRESS



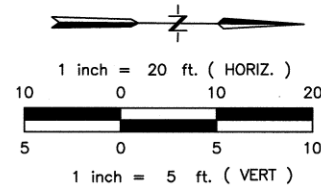
OKIE 811
Know what's below
811 before you dig.

ROADWAY PLAN & PROFILE (2 OF 6)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BNL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD 7/24	APPROVED:
1"=20'	DESIGNED BY:	DEP 7/24	
	SURVEY BY:	TLS 1/17	
PROFILE SCALE	PROJ. MGR.	11/6 9/2004	
HORIZONTAL:	LEAD ENGR.	5/24	 CITY ENGINEER
1"=20'	FIELD MGR.	4/24 6/25	
VERTICAL:	RECOMMENDED	4/25 8-25	
1"=5'	DESIGN MANAGER		
FILE:	DRAWING:	DATE: JULY 2024	
ATLAS PAGE NO: 3		SHEET 29 OF 97 SHEETS	



Bench Mark #123
IRON PIN W/CAP SET,
TLS CONTROL
N=422673.15
E=2568619.01
ELEV. 754.68

Bench Mark #110
IRON PIN W/CAP SET,
TLS CONTROL
N=422850.02
E=2568711.36
ELEV. 759.43



REPAIR LEGEND:

- FULL DEPTH APC PATCH
 - FULL DEPTH ASPHALT
 - FULL DEPTH PC CONCRETE PATCH
 - FULL DEPTH PC CONCRETE
 - PC CONCRETE DRIVE
 - PC CONCRETE SIDEWALK
 - MILL AND OVERLAY
 - 1'-4" PATTERNED SIDEWALK
 - PROPOSED WATERLINE BASE BID
 - PROPOSED WATERLINE ADD ALT.
- 1 ASPHALT MILL AND OVERLAY
 - 2 REMOVE AND REPLACE EXISTING DRIVE WITH PC CONCRETE DRIVE
 - 3 REMOVE AND REPLACE EXISTING SIDEWALK WITH PC CONCRETE SIDEWALK
 - 4 REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - 5 ADJUST TO GRADE
 - 6 CONSTRUCT HANDICAP RAMP
 - 7 CONSTRUCT TRUNCATED DOMES
 - 8 CONSTRUCT MANHOLE
 - 9 CONSTRUCT INLET
 - 10 CONSTRUCT PC CONCRETE MEDIAN
 - 11 REMOVE INLET
 - 12 CONSTRUCT 1'-4" PATTERNED SIDEWALK
 - 13 FULL DEPTH PC CONCRETE
 - 14 FULL DEPTH AC PATCH
 - 15 FULL DEPTH PC CONCRETE PATCH

--- PROJECT LIMITS
1111 NEAREST ADDRESS



9/12/2024

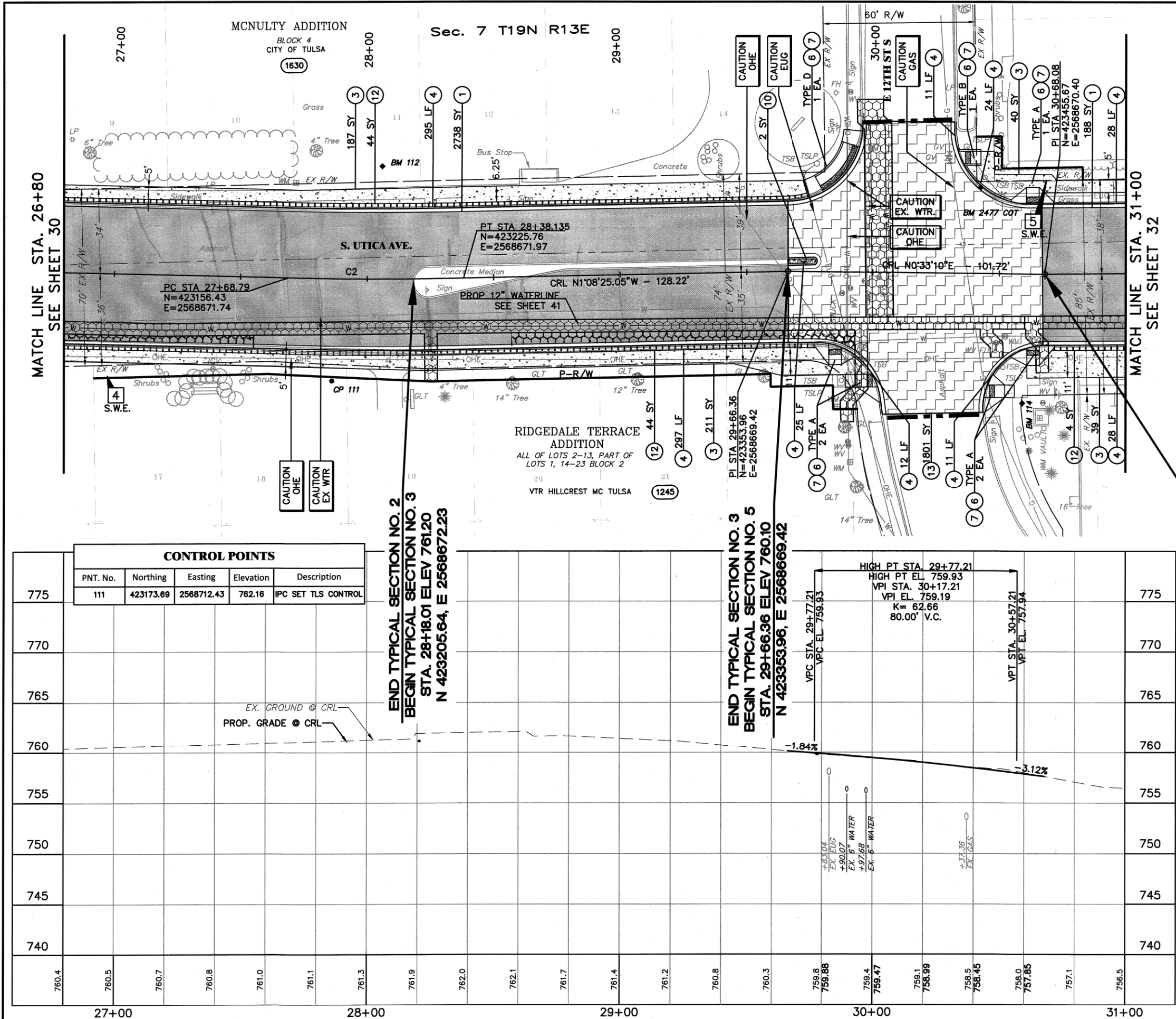
ROADWAY PLAN & PROFILE (3 OF 6)
PROJ. 144017-W, 144017-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
			1"=20'	DESIGNED BY:	DEP	7/24	
				SURVEY BY:	TLS	1/17	
			PROFILE SCALE	PROJ. MGR.	MGM	9/2024	
			HORIZONTAL:	LEAD ENGR.	DEP	5/20	
			1"=20'	FIELD MGR.	DEP	5/20	
			VERTICAL:	RECOMMENDED:	DEP	5/20	
			1"=5'	DESIGN MANAGER	DEP	5/20	
			FILE:	DRAWING:			
			ATLAS PAGE NO: 3				

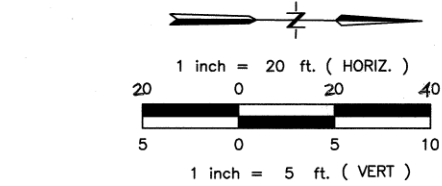
CITY ENGINEER
J. Zohall
DATE: JULY 2024
SHEET 30 OF 77 SHEETS



Bench Mark #112
IRON PIN W/CAP SET,
TLS CONTROL
N=423193.66
E=568627.45
ELEV. 760.26

Bench Mark #114
IRON PIN W/CAP SET,
TLS CONTROL
N=423446.73
E=2568721.37
ELEV. 758.11

CURVE DATA C2	
DA=	2'38'55"
D=	3'49'11"
T=	34.68
L=	69.34
R=	1500.00
PC STA=	27+68.79
PT STA=	28+38.13



REPAIR LEGEND:

- FULL DEPTH APC PATCH
- FULL DEPTH ASPHALT
- FULL DEPTH PC CONCRETE PATCH
- FULL DEPTH PC CONCRETE
- PC CONCRETE DRIVE
- PC CONCRETE SIDEWALK
- MILL AND OVERLAY
- 1'-4" PATTERNED SIDEWALK
- PROPOSED WATERLINE BASE BID
- PROPOSED WATERLINE ADD ALT

- ASPHALT MILL AND OVERLAY
- REMOVE AND REPLACE EXISTING DRIVE WITH PC CONCRETE DRIVE
- REMOVE AND REPLACE EXISTING SIDEWALK WITH PC CONCRETE SIDEWALK
- REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- ADJUST TO GRADE
- CONSTRUCT HANDICAP RAMP
- CONSTRUCT TRUNCATED DOMES
- CONSTRUCT MANHOLE
- CONSTRUCT INLET
- CONSTRUCT PC CONCRETE MEDIAN
- REMOVE INLET
- CONSTRUCT 1'-4" PATTERNED SIDEWALK
- FULL DEPTH PC CONCRETE
- FULL DEPTH AC PATCH
- FULL DEPTH PC CONCRETE PATCH

PROJECT LIMITS
NEAREST ADDRESS



ROADWAY PLAN & PROFILE (4 OF 6)
PROJ. 144017-W, 144017-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588

REVISION	BY	DATE

PLAN SCALE: 1"=20'	DRAWN BY: CGD 7/24	DESIGNED BY: DEP 7/24	SURVEY BY: TLS 1/17
PROFILE SCALE: HORIZONTAL: 1"=20' VERTICAL: 1"=5'	PROJ. MGR. [Signature] 9/20/24	LEAD ENGR. [Signature] 5/20/24	FIELD MGR. [Signature] 6/25/24

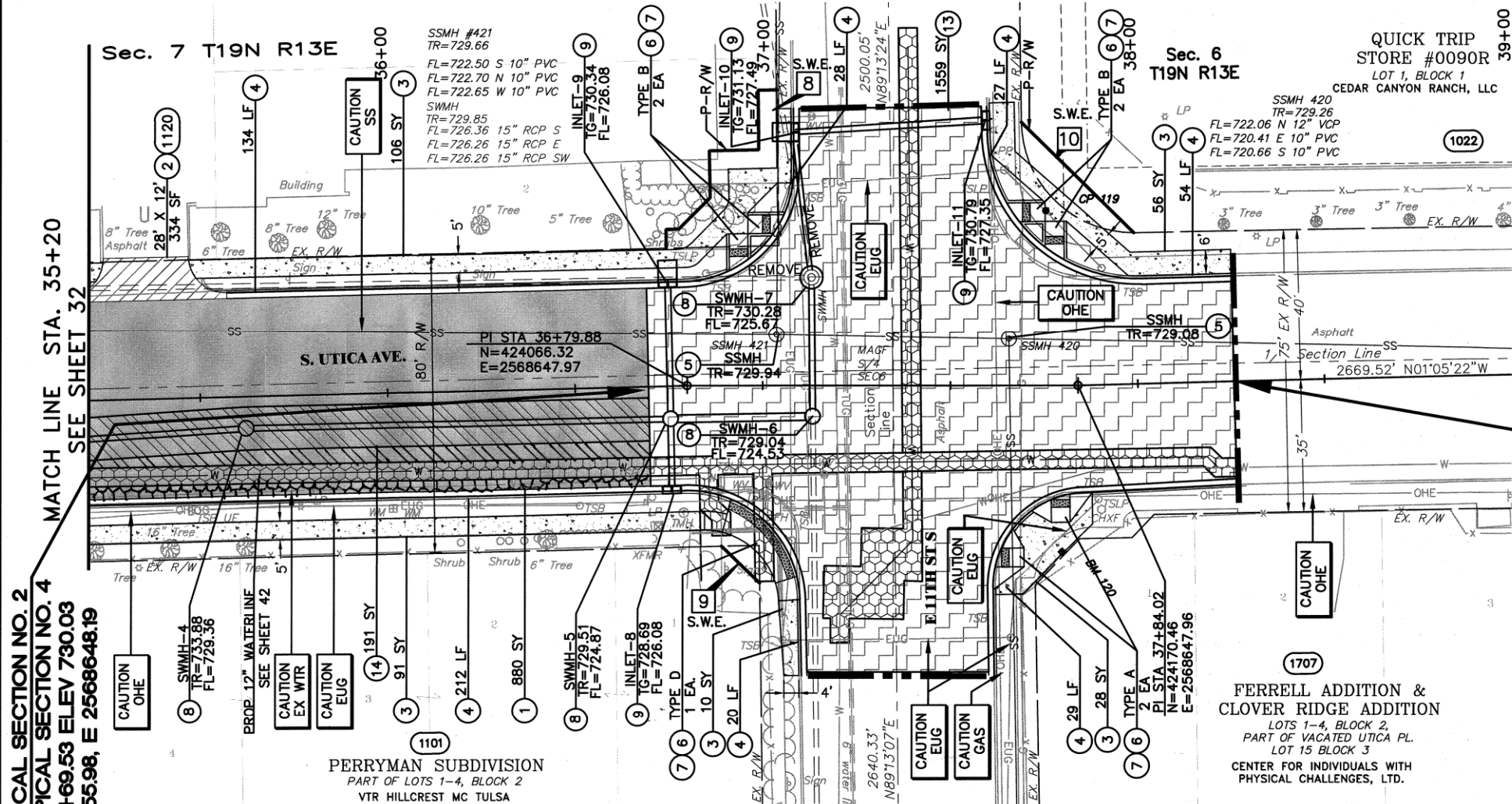
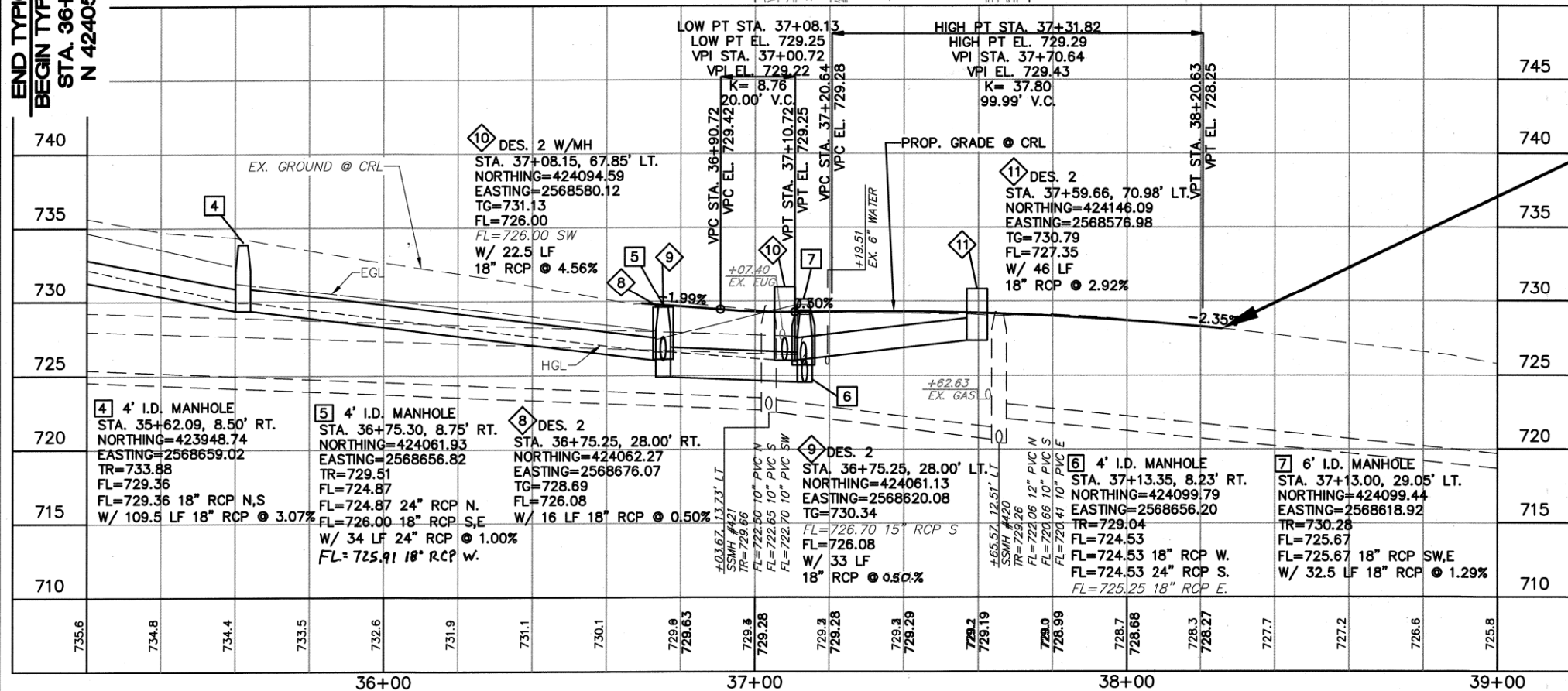
FILE: [Blank]	DRAWING: [Blank]	DATE: JULY 2024
ATLAS PAGE NO: 3		

APPROVED: [Signature]	CITY ENGINEER
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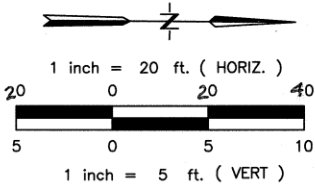
OKIE 811
Know what's below
811 before you dig.

END TYPICAL SECTION NO. 4
BEGIN TYPICAL SECTION NO. 4
STA. 36+69.53 ELEV 730.03
N 424055.98, E 2568648.19



CONTROL POINTS				
PNT. No.	Northing	Easting	Elevation	Description
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119	424161.85	2568601.21	730.17	IPC SET TLS CONTROL

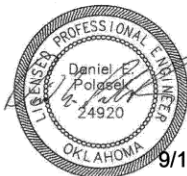
Bench Mark #120
MAG SET IN
ASPHALT W/ SHINER
N=424166.28
E=2568692.37
ELEV. 728.04



REPAIR LEGEND:

- FULL DEPTH APC PATCH
 - FULL DEPTH ASPHALT
 - FULL DEPTH PC CONCRETE PATCH
 - FULL DEPTH PC CONCRETE
 - PC CONCRETE DRIVE
 - PC CONCRETE SIDEWALK
 - MILL AND OVERLAY
 - 1'-4" PATTERNED SIDEWALK
 - PROPOSED WATERLINE BASE BID
 - PROPOSED WATERLINE ADD ALT
- ASPHALT MILL AND OVERLAY
 - REMOVE AND REPLACE EXISTING DRIVE WITH PC CONCRETE DRIVE
 - REMOVE AND REPLACE EXISTING SIDEWALK WITH PC CONCRETE SIDEWALK
 - REMOVE AND REPLACE CONCRETE CURB AND GUTTER
 - ADJUST TO GRADE
 - CONSTRUCT HANDICAP RAMP
 - CONSTRUCT TRUNCATED DOMES
 - CONSTRUCT MANHOLE
 - CONSTRUCT INLET
 - CONSTRUCT PC CONCRETE MEDIAN
 - REMOVE INLET
 - CONSTRUCT 1'-4" PATTERNED SIDEWALK
 - FULL DEPTH PC CONCRETE
 - FULL DEPTH AC PATCH
 - FULL DEPTH PC CONCRETE PATCH

--- PROJECT LIMITS
1111 NEAREST ADDRESS



ROADWAY PLAN & PROFILE (6 OF 6)
PROJ. 144017-W, 144017-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE
E. 11TH ST. TO E. 15TH ST.
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

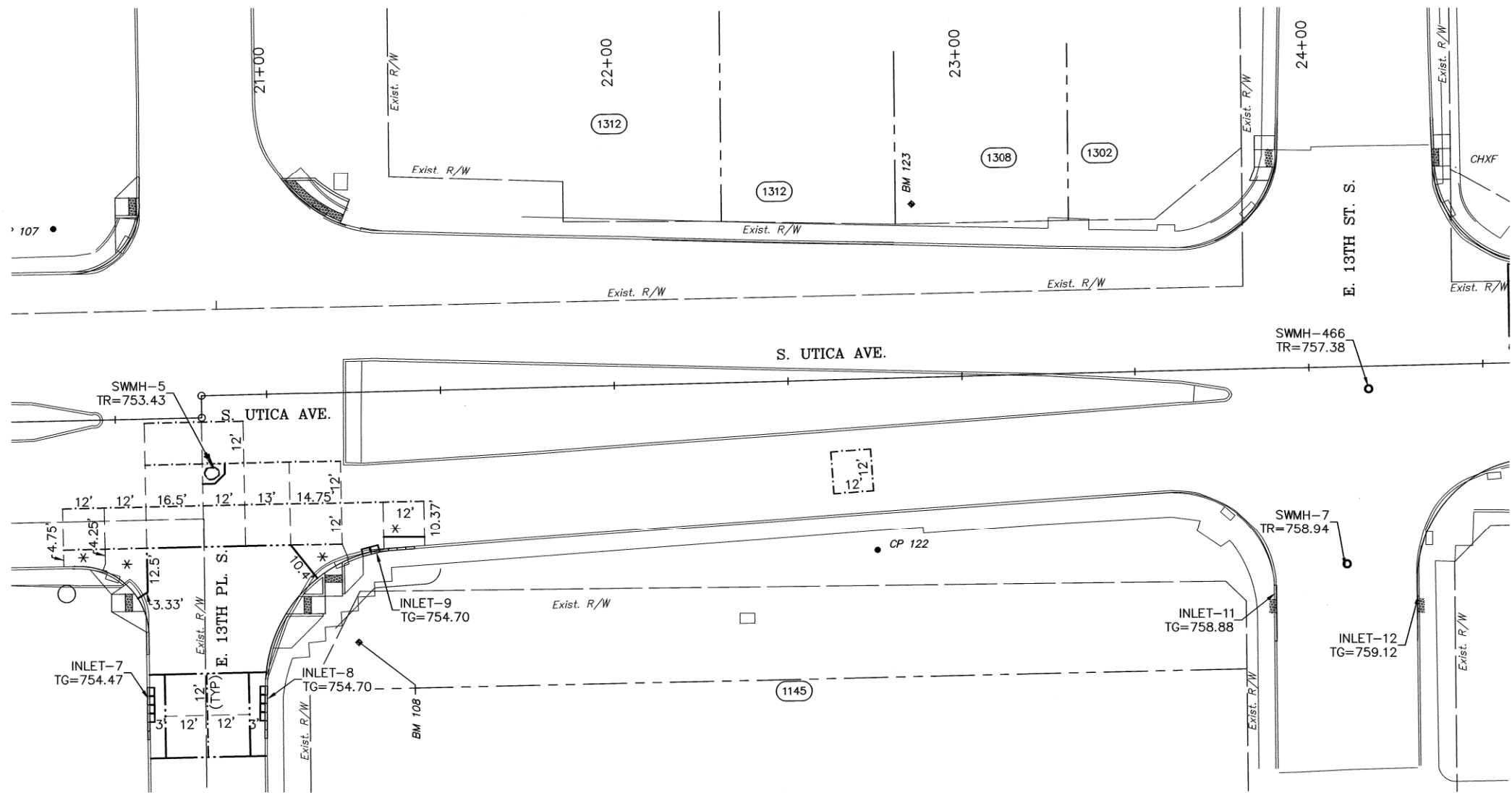
PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED
1823 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	CD	7/24	APPROVED:
			1"=20'	DESIGNED BY:	DEP	7/24	
				SURVEY BY:	TLS	1/17	
			PROFILE SCALE:	PROJ. MGR.	M. J. 9/2024		
				LEAD ENGR.	D. J. 5/20		
			HORIZONTAL:	FIELD MGR.	R. M. 6/15		
			1"=20'	RECOMMENDED:			
			1"=5'	DESIGN MANAGER:	H. B. 8-25		
			FILE:	DRAWING:			CITY ENGINEER
			ATLAS PAGE NO: 3	DATE: JULY 2024			

END TYPICAL SECTION 4
S. UTICA AVE.
CONSTRUCTION
STA. 38+25.85 ELEV 728.13
N 424212.28, E 2568646.89

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-JL01.dwg, 250714 - 8:24 AM, FLK



1 inch = 20 ft.

20 0 20 40

LEGEND

- BUTT JOINT
- - - SAWED DOWELED CONTRACTION JOINT
- . - . TIED LONGITUDINAL JOINT
- ISOLATION JOINT/EXPANSION JOINT
- ◇ MANHOLE BLOCKOUT WITH ISOLATION JOINT
- PROJECT LIMITS

NOTE: PATCHED AREA TO MATCH EXISTING ELEVATIONS AND GRADE.

* IRREGULAR SHAPED PANELS SHALL BE REINFORCED. REINFORCEMENT SHOULD BE #4 BARS EACH DIRECTION AND EQUALLY SPACED NOT MORE THAN 12". PROVIDE SUPPORT CHAIRS AS NEEDED. SEE SHEET 35 FOR DETAIL.



7/14/2025



REVISION		BY	DATE	PLAN SCALE:		DRAWN BY:	CGD	7/24	APPROVED:
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JOINT LAYOUT (1 OF 3)

PROJ. 144017-W, 144017-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE

E. 11TH ST. TO E. 15TH ST.

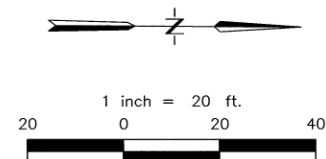
CITY OF TULSA, OKLAHOMA

PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



	BUTT JOINT
	SAWED DOWELED CONTRACTION JOINT
	TIED LONGITUDINAL JOINT
	ISOLATION JOINT/EXPANSION JOINT
	MANHOLE BLOCKOUT WITH ISOLATION JOINT
	PROJECT LIMITS

SECTION
TYPICAL PANEL
REINFORCEMENT DETAIL

NOT TO SCALE

7/14/2025

NOTE: SEE ODOT ROADWAY
STANDARD LEC5-5
FOR BUTT JOINT
DETAIL.

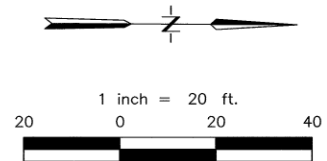
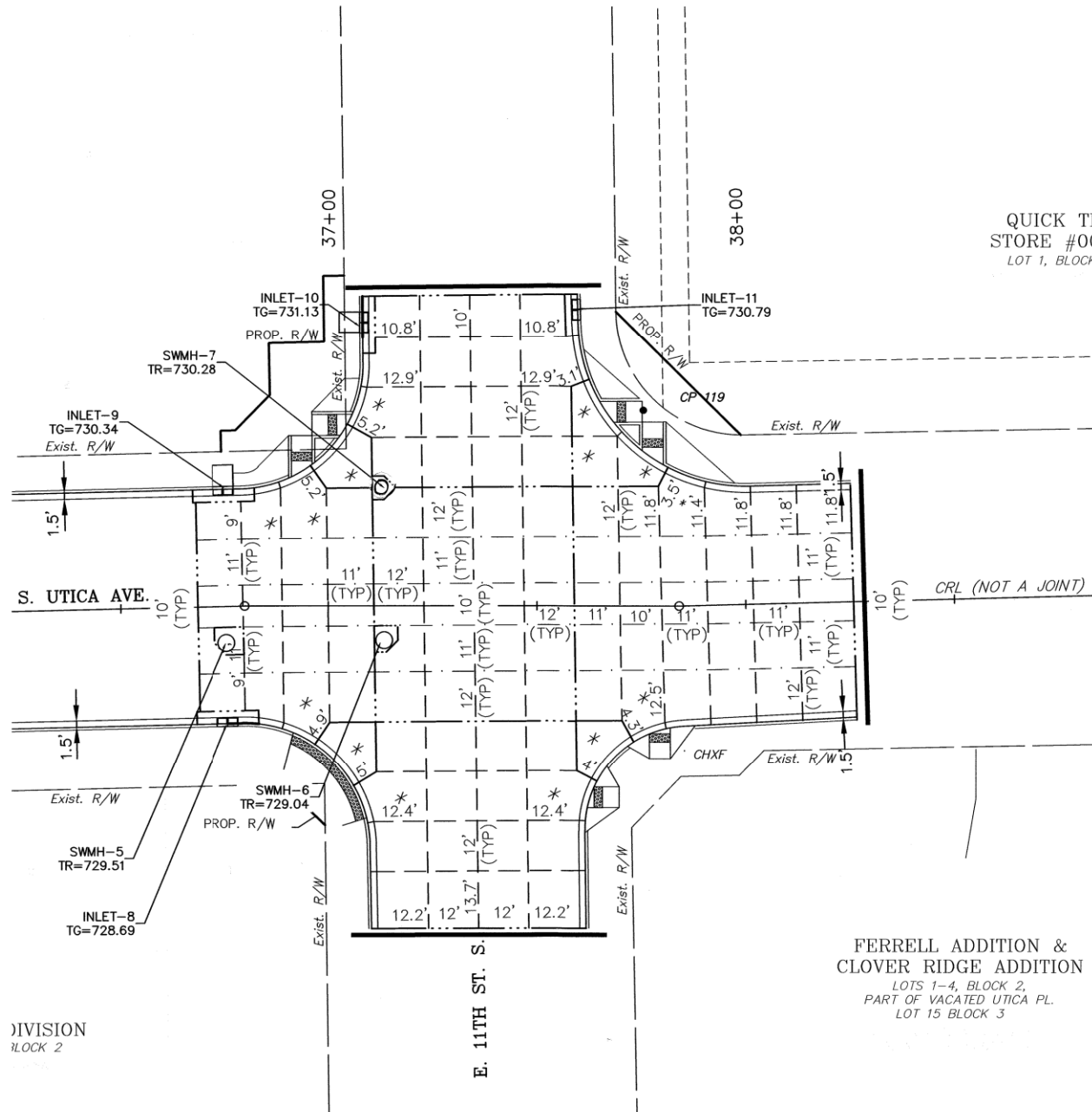
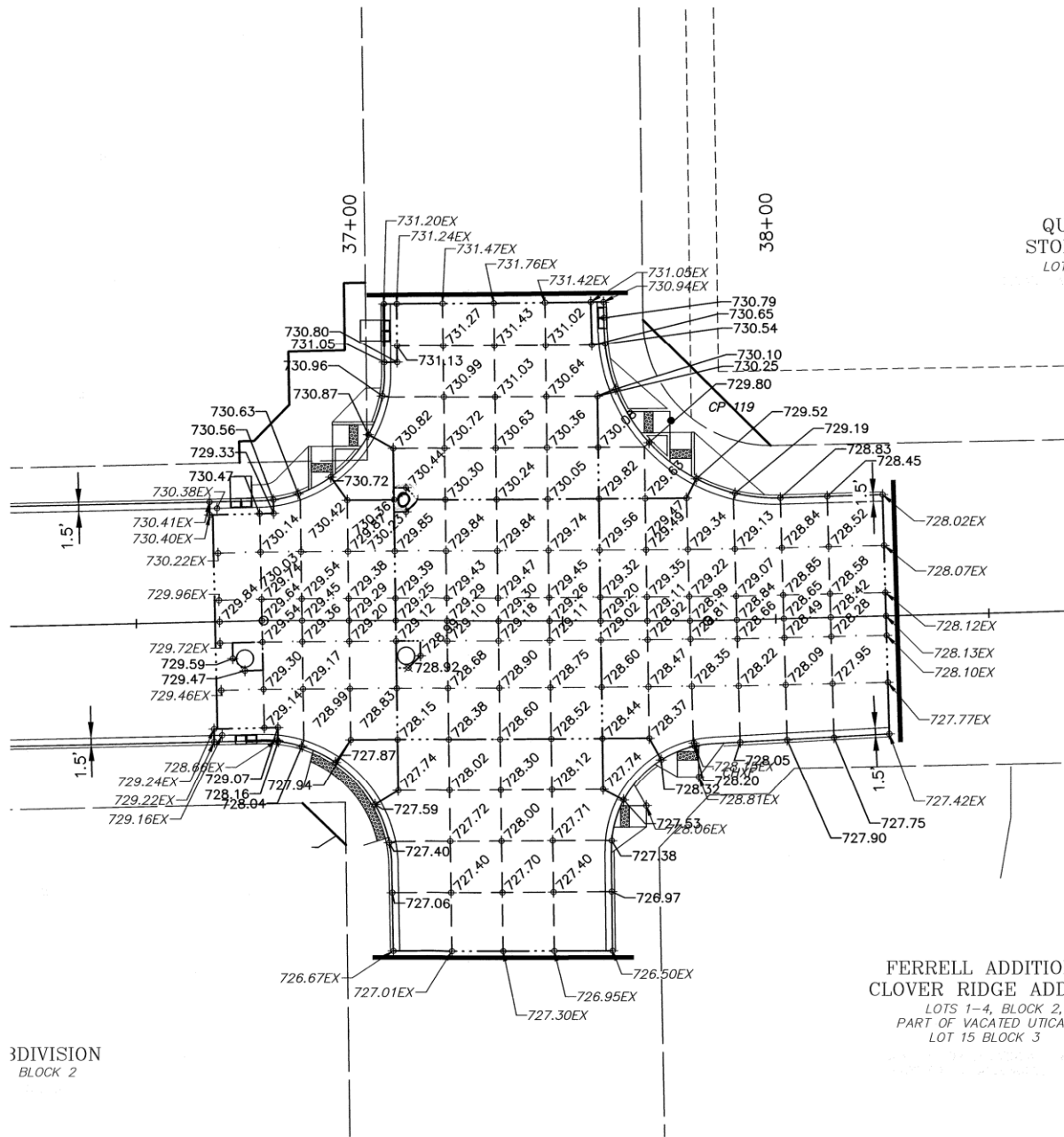
EXPANSION JOINT/ISOLATION JOINT
BASKET ASSEMBLY TO BE APPROVED
PRIOR TO INSTALLATION

SAWED LONGITUDINAL JOINT
(IN LIEU OF TONGUE AND GROOVE CONST. JOINT)

SAWED DOWELED CONTRACTION JOINT
PER ODOT ROADWAY STD. LTU-5-1

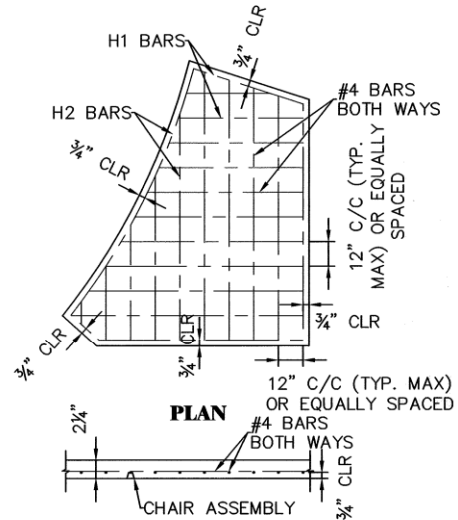
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LEGEND

- BUTT JOINT
- SAWED DOWELED CONTRACTION JOINT
- TIED LONGITUDINAL JOINT
- ISOLATION JOINT/EXPANSION JOINT
- ◇ MANHOLE BLOCKOUT WITH ISOLATION JOINT
- PROJECT LIMITS



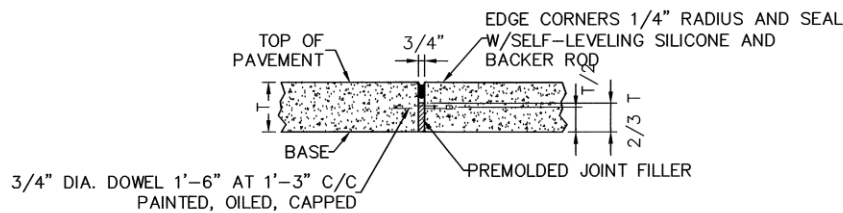
SECTION TYPICAL PANEL REINFORCEMENT DETAIL NOT TO SCALE

NOTE: SEE ODOT ROADWAY
STANDARD LECS-5
FOR BUTT JOINT
DETAIL.



7/14/2025

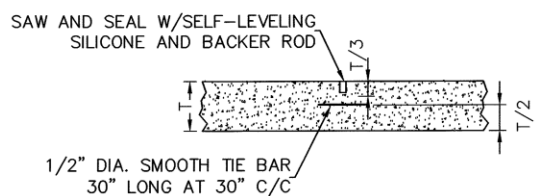
* IRREGULAR SHAPED PANELS SHALL BE REINFORCED.
REINFORCEMENT SHOULD BE #4 BARS EACH DIRECTION AND EQUALLY
SPACED NOT MORE THAN 12". PROVIDE SUPPORT CHAIRS AS NEEDED.



TYPE AA NOT TO SCALE

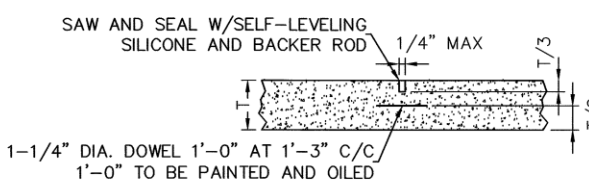
EXPANSION JOINT/ISOLATION JOINT

BASKET ASSEMBLY TO BE APPROVED
PRIOR TO INSTALLATION



TYPE CC NOT TO SCALE

SAWED LONGITUDINAL JOINT
(IN LIEU OF TONGUE AND GROOVE CONST. JOINT)



TYPE DD NOT TO SCALE

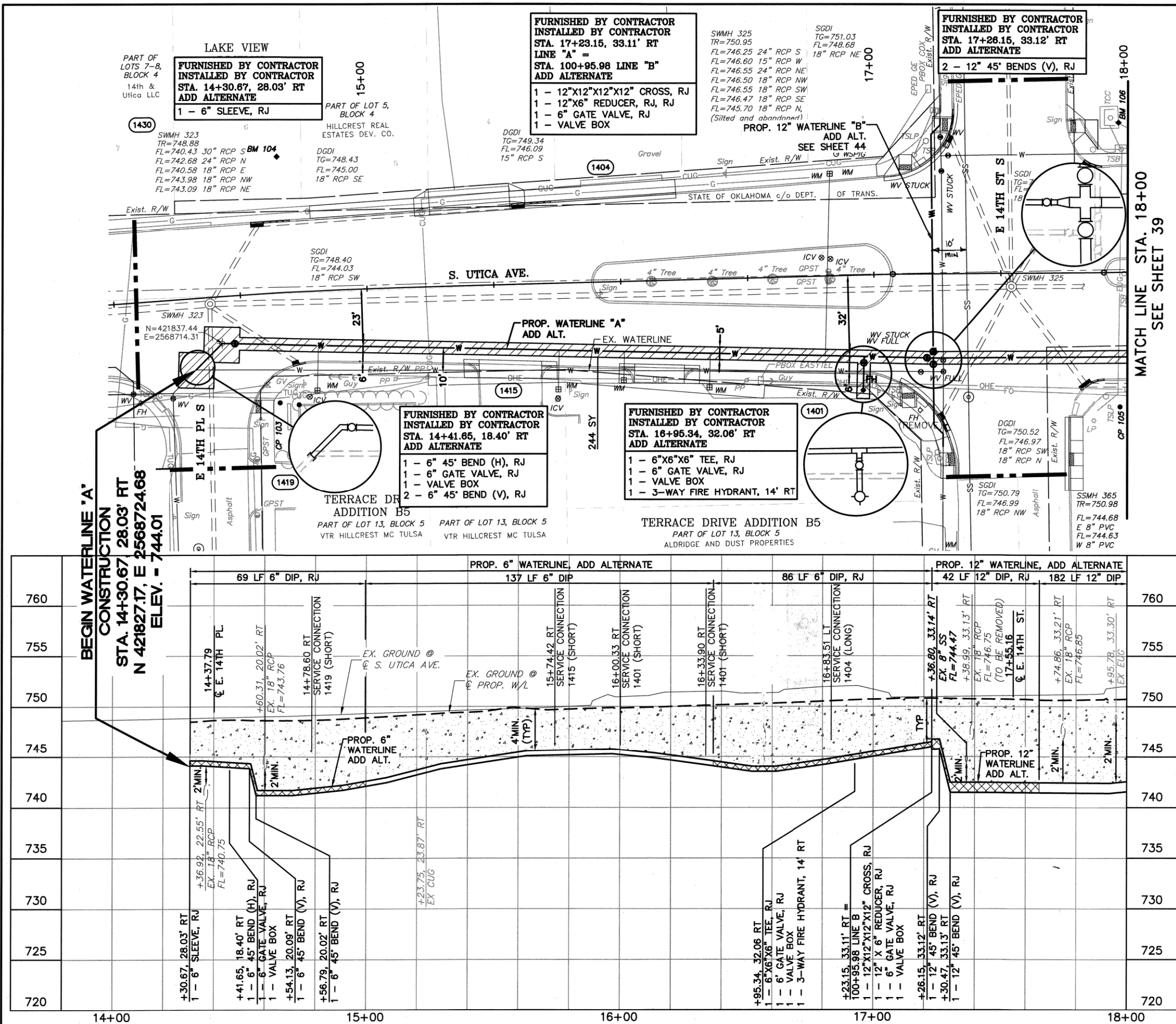
SAWED DOWELED CONTRACTION JOINT
PER ODOT ROADWAY STD LTU-5-1



REVISION	BY	DATE

JOINT LAYOUT (3 OF 3)		
PROJ. 144017-W, 144017-AX		
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.		
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT		
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED		
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588		
PLAN SCALE: 1"=20'	DRAWN BY: DESIGNED BY: SURVEY BY:	CDG DEP TLS 7/24 7/24 1/17
PROFILE SCALE: 1"=20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	M. B. 8/20/25 J. B. 8/20/25 J. B. 8/20/25
VERTICAL: 1"=5'	RECOMMENDED: DESIGN MANAGER	H. B. 8-25
FILE:	DRAWING:	DATE
ATLAS PAGE NO: 3		JULY 2024
		SHEET 36 OF 77 SHEETS

REVISION		BY	DATE	1823 E. 61th STREET	CGD	7/24	APPROVED:
				PLAN SCALE:	DESIGNED BY:	7/24	 CITY ENGINEER
				1"=60'	DEP	7/24	
					TLS	1/17	
				PROFILE SCALE	PROJ. MGR.	11/3/2024	
				HORIZONTAL:	LEAD ENGR.	6/25/2024	
				VERTICAL:	FIELD MGR.	6/25/2024	
					RECOMMENDED:	2/23	
					DESIGN MANAGER		
				FILE:	DRAWING:		DATE: JULY 2024
				ATLAS PAGE NO:	3		SHEET 37 OF 77 SHE



Bench Mark #104

IRON PIN W/CAP SET,
TLS CONTROL
N=421858.70
E=2568640.56
ELEV. 750.23

Bench Mark #106

CHISELED SQUARE SET,
NORTH SIDE OF TSCB
CONC PAD
N=422190.62
E=2568626.89
ELEV. 753.06

CONTROL POINTS

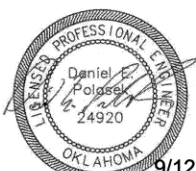
PNT. No.	Northing	Easting	Elevation	Description
103	421860.35	2568737.77	748.98	IPC SET TLS CONTROL
105	422191.49	2568739.24	752.32	IPC SET TLS CONTROL

SERVICE CONNECTIONS

FOUR (4) SHORT SERVICE CONNECTIONS THIS SHEET
ONE (1) LONG SERVICE CONNECTIONS THIS SHEET

LEGEND

- PAVEMENT, REMOVE AND REPLACE BASE BID
- PAVEMENT, REMOVE AND REPLACE ADD ALTERNATE
- PROPOSED DIP WATER LINE
- AGGREGATE BASE
- DIP RESTRAINED JOINT
- RJ RESTRAINED JOINT



ADD ALTERNATE

TMUA-W 16-33 & TMUA-W 16-36

WATERLINE "A"
WATERLINE REHABILITATION PLAN (1 OF 10)

PROJECT NO. 144107-W, 144107-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE.

E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120

918-835-9588

APPROVED:

PLAN SCALE: 1"=20'

DESIGNED BY: DEP 7/24

SURVEY BY: TLS 1/17

PROFILE SCALE: PROJ. MGR. M. 10/2024

HORIZONTAL: FIELD ENGR. C.E. 1/1/2025

VERTICAL: RECOMMENDED: J. 2/1/2025

FILE: DESIGN MANAGER

ATLAS PAGE NO: 3

CITY ENGINEER

DATE: JULY 2024

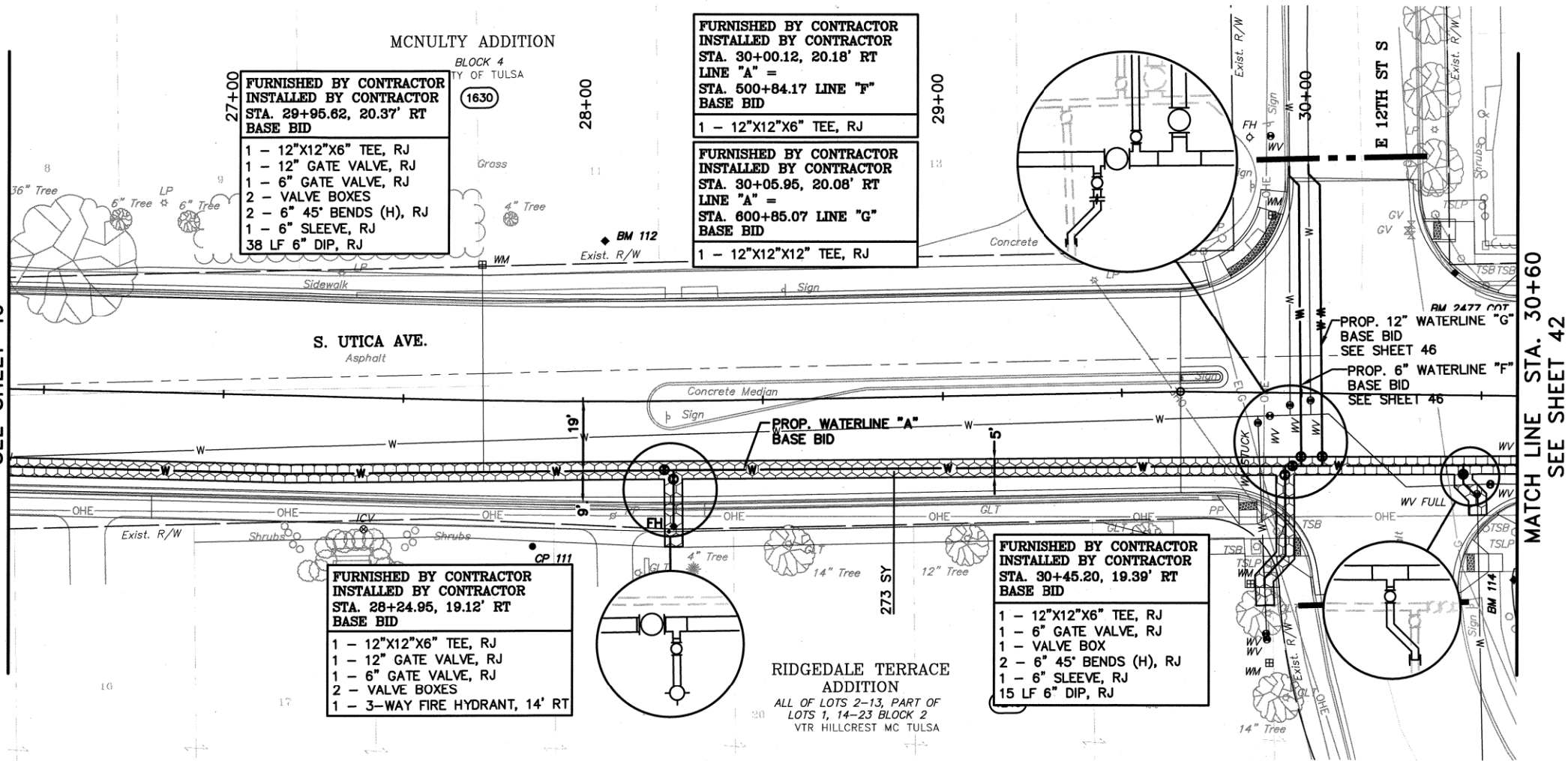
SHEET 38 OF 77 SHEETS



OKIE 811
Know what's below
811 before you dig.

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-WR01.dwg, 240813 - 2:24 PM, DEP

MATCH LINE STA. 26+40
SEE SHEET 40

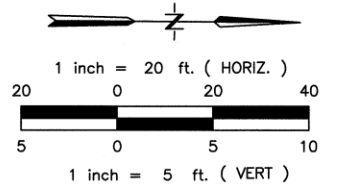


Bench Mark #112

IRON PIN W/CAP SET,
TLS CONTROL
N=423193.66
E=568627.45
ELEV. 760.26

Bench Mark #114

IRON PIN W/CAP SET,
TLS CONTROL
N=423446.73
E=2568721.37
ELEV. 758.11



CONTROL POINTS

PNT. No.	Northing	Easting	Elevation	Description
111	423173.69	2568712.43	762.16	IPC SET TLS CONTROL

SERVICE CONNECTIONS

ZERO (0) SHORT SERVICE CONNECTIONS THIS SHEET
ONE (1) LONG SERVICE CONNECTIONS THIS SHEET

LEGEND

	PAVEMENT, REMOVE AND REPLACE BASE BID
	PAVEMENT, REMOVE AND REPLACE ADD ALTERNATE
	PROPOSED DIP WATER LINE
	AGGREGATE BASE
	DIP RESTRAINED JOINT
	RJ RESTRAINED JOINT



9/12/2024

BASE BID

TMUA-W 16-33 & TMUA-W 16-36

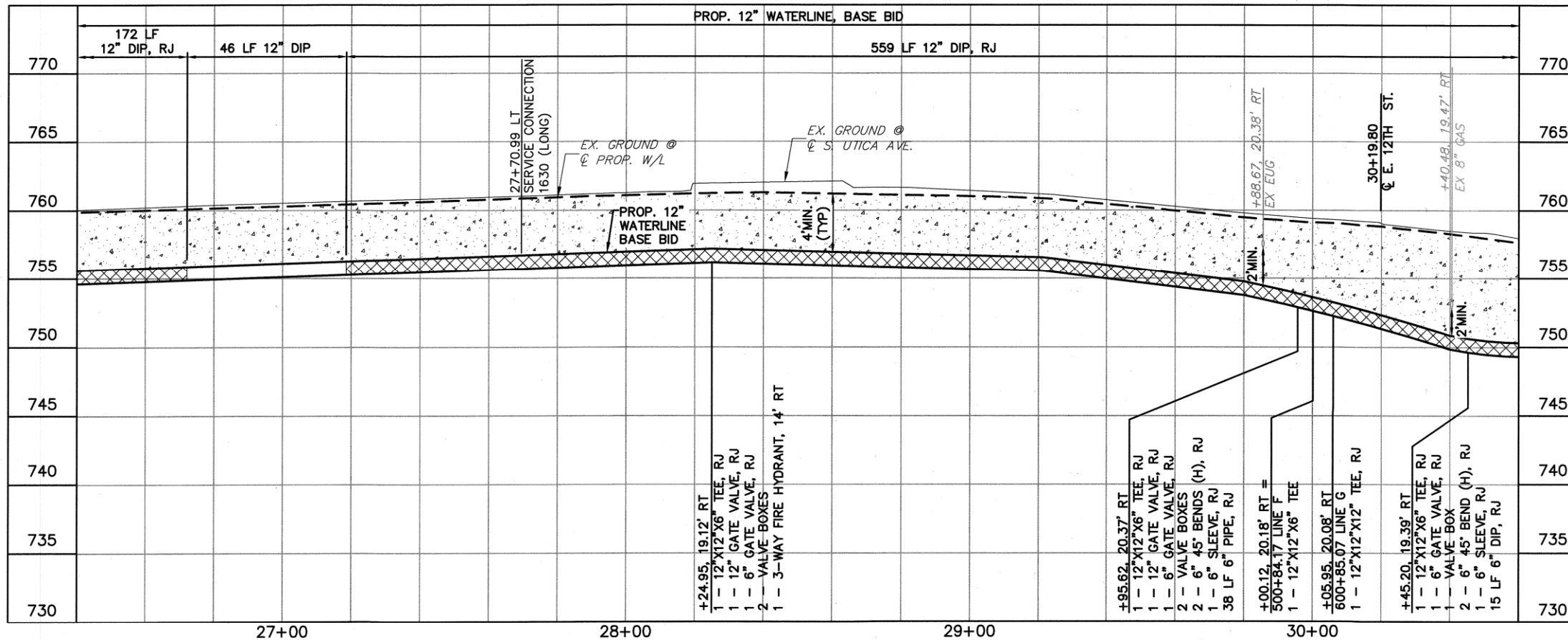
WATERLINE "A"
WATERLINE REHABILITATION PLAN (4 OF 10)
PROJECT NO. 144107-W, 144107-AX
ARTERIAL STREET REHABILITATION
S. UTICA AVE.
E. 11TH ST. TO E. 15TH ST.

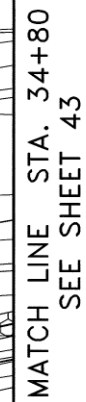
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:
BKL, INCORPORATED
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



REVISION			BY	DATE	1020 E. 8TH STREET TULSA, OKLA. 74120			918-839-9588	
					PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
					1"=20'	DESIGNED BY:	DEP	7/24	
						SURVEY BY:	TLS	1/17	
					PROFILE SCALE	PROJ. MGR.	M. B.	10/2024	
					HORIZONTAL:	LEAD ENGR.	C. W.	10/2024	
					1"=20'	FIELD MGR.	C. W.	6/25	
					VERTICAL:	RECOMMENDED:	J. M.		
					1"=5'	DESIGN MANAGER	J. M.		
					FILE:	DRAWING:	DATE: July 2024		
					ATLAS PAGE NO:	3	SHEET 41 OF 77 SHEETS		





1 inch = 20 ft. (HORIZ.)

20 0 20 40

5 0 5 10

1 inch = 5 ft. (VERT)

SERVICE CONNECTIONS

LEGEND

- | | |
|---|---|
|  | PAVEMENT, REMOVE AND REPLACE
BASE BID |
|  | PAVEMENT, REMOVE AND REPLACE
ADD ALTERNATE |
|  | PROPOSED DIP WATER LINE |
|  | AGGREGATE BASE |
|  | DIP RESTRAINED JOINT |
| RJ | RESTRAINED JOINT |



7/14/2025

BASE BID

TMUA-W 16-33 & TMUA-W 16-36

WATERLINE "A"
WATERLINE REHABILITATION PLAN (5 OF 10)

PROJECT NO. 144107-W, 144107-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE.

E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET	TULSA, OKLA. 74120	918-835-9588
--------------------	--------------------	--------------

E	PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:
---	-------------	-----------	-----	------	-----------

DESIGNED BY:	DEP	7/24
--------------	-----	------

1"=20'			
	SURVEY BY:	TLS	1/17

	SURVEY DT.	YES	1/17
PROFILE SCALE	BBQ1 MCR	02	02/1

PROFILE SCALE	PROJ. MGR.	45	01/25
	LEAD ENGR.	3	3

HORIZONTAL:	LEAD ENGR.	CEW	7/2025
-------------	------------	-----	--------

1"=20'	FIELD MGR.	<i>Jim 7/25</i>	<i>—</i>
--------	------------	-----------------	----------

VERTICAL: RECOMMENDED: *Thompson* *7/2/04*

1"=5'	<u>James J. J.</u> DESIGN MANAGER	<u>John J.</u> CITY ENGINEER
-------	--------------------------------------	---------------------------------

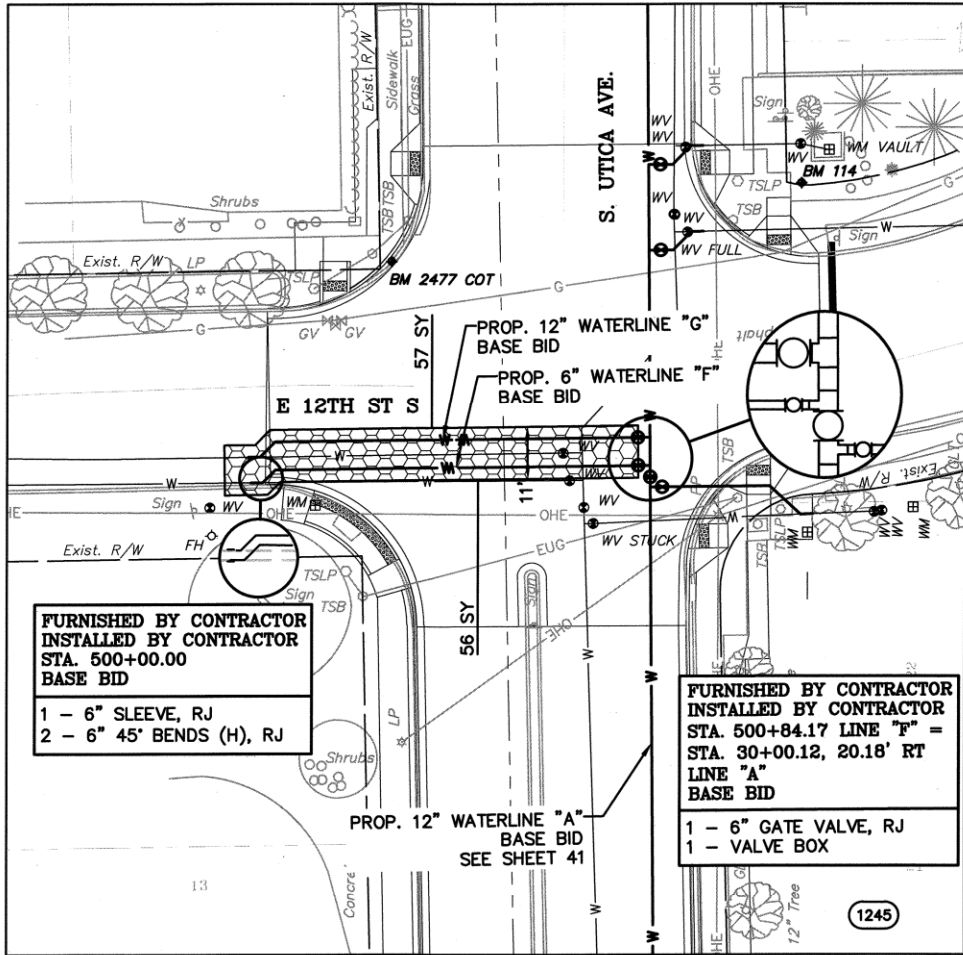
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ATLAS PAGE NO:	3	SHEET 42 OF 77 SHEETS
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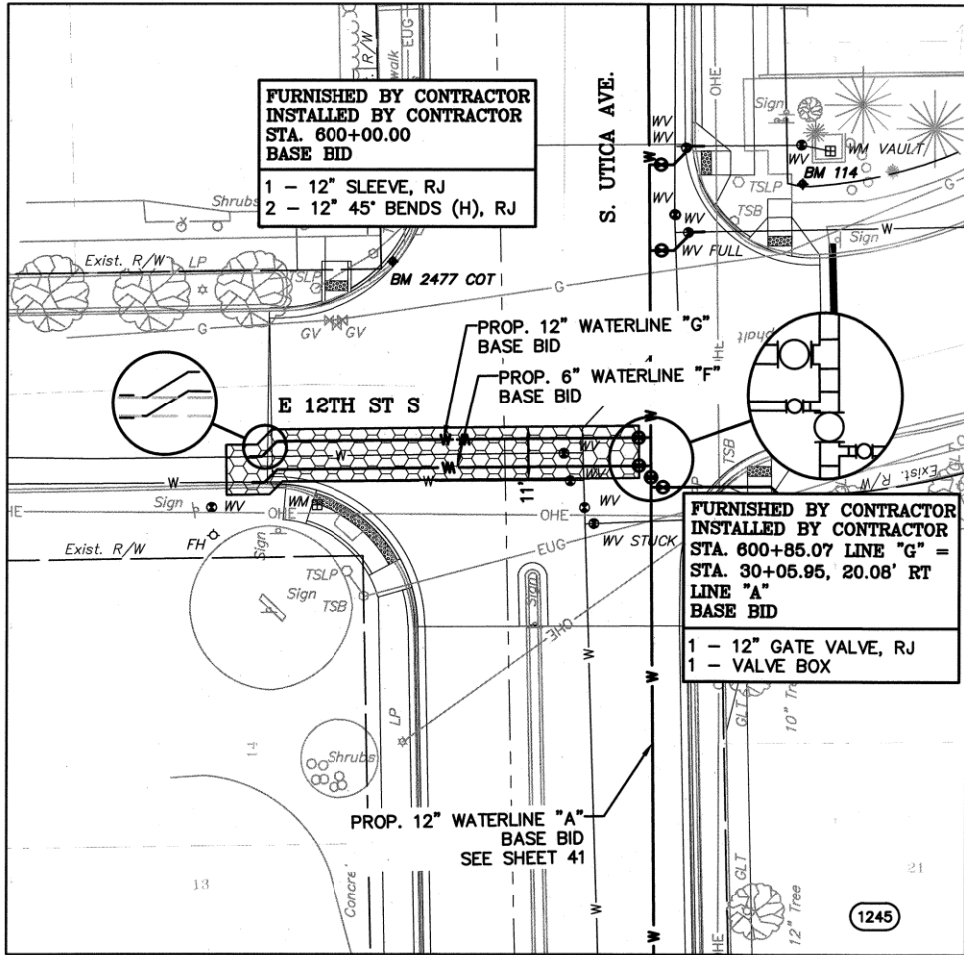
ITEMS PAGE NO:	5	STEEL 12	5177	SHEETS
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OKIE 811
Know what's below
811 before you dig.

REVISION			BY	DATE	1623 E. 6TH STREET TULSA, OKLA. 74120			918-835-9588		
					PLAN SCALE:	DRAWN BY:	CGD	7/24	APPROVED:	
						DESIGNED BY:	DEP	7/24		
						SURVEY BY:	TLS	1/17		
					PROFILE SCALE		01/25			
					HORIZONTAL:	LEAD ENGR.	CEW	7/20		
					VERTICAL:	FIELD MGR.	DMU	7/25	 CITY ENGINEER	
						RECOMMENDED:				
						DESIGN MANAGER				
FILE:					DRAWING:			DATE: JULY 2024		
SHEET PAGE NO:					3			SHEET 42 OF 77 SHEETS		



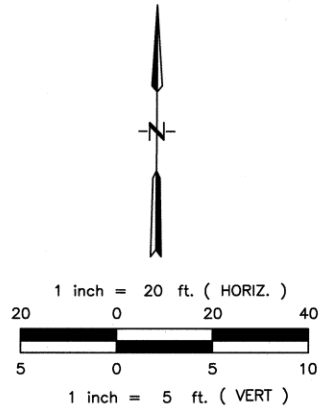
WATERLINE "F"



WATERLINE "G"

Bench Mark #114
IRON PIN W/CAP SET,
TLS CONTROL
N=423446.73
E=2568721.37
ELEV. 758.11

Bench Mark #2477
COT BENCHMARK CAP
P.F.P.I. 2477
N=423430.24
E=2568635.95
ELEV. 758.64



SERVICE CONNECTIONS

ZERO (0) SHORT SERVICE CONNECTIONS THIS SHEET
ZERO (0) LONG SERVICE CONNECTIONS THIS SHEET

LEGEND

- PAVEMENT, REMOVE AND REPLACE BASE BID
- PAVEMENT, REMOVE AND REPLACE ADD ALTERNATE
- PROPOSED DIP WATER LINE
- AGGREGATE BASE
- DIP RESTRAINED JOINT
- RJ RESTRAINED JOINT



9/12/2024

BASE BID

TMUA-W 16-33 & TMUA-W 16-36

WATERLINE "F" & "G"

WATERLINE REHABILITATION PLAN (9 OF 10)

PROJECT NO. 144107-W, 144107-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE.

E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA

PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588



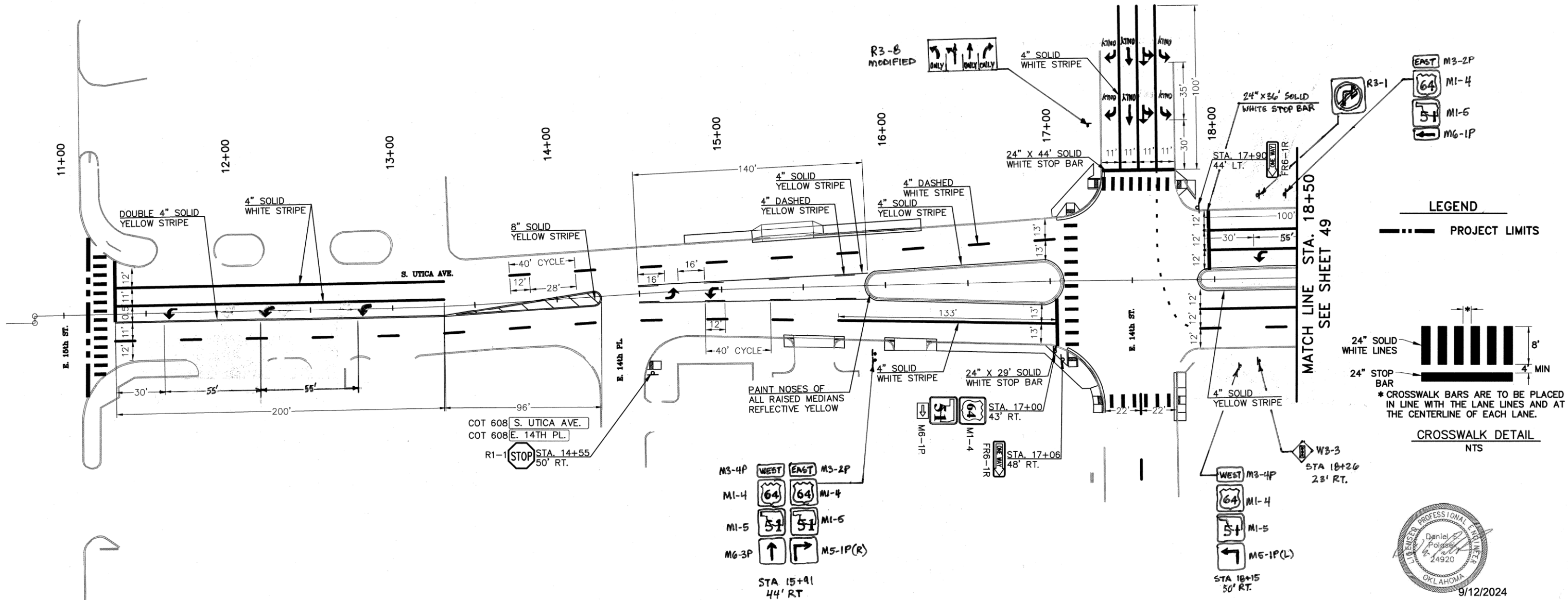
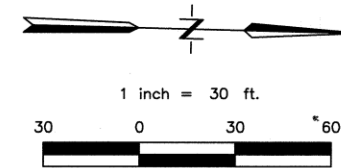
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				SURVEY BY:	TLS	1/17	
			PROFILE SCALE:	PROJ. MGR.	Mham	10/2024	
			HORIZONTAL:	LEAD ENGR.	CE	1/2025	
			1"=20'	FIELD MGR.	CE	6/25	
			VERTICAL:	RECOMMENDED:	Mham	6/25	
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			FILE:	DRAWING:			
			ATLAS PAGE NO:	3			

CITY ENGINEER

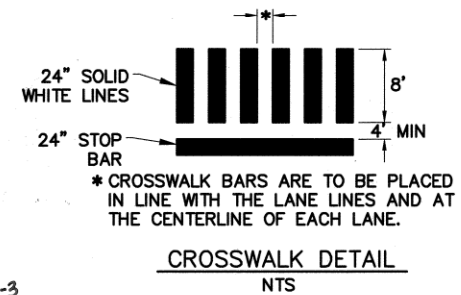
DATE: JULY 2024

SHEET 46 OF 77 SHEETS

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-ST01.dwg, 240813 - 2:26 PM, DEP



LEGEND
--- PROJECT LIMITS



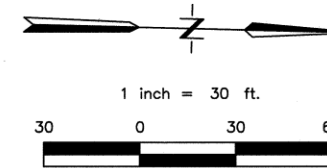
STRIPING PLAN (1 OF 4)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	APPROVED: 
1"=30'	DESIGNED BY:	DEP 7/24	
	SURVEY BY:	TLS 1/17	
	PROJ. MGR.	MAM 10/20/2024	
PROFILE SCALE:	LEAD ENGR.	MUS 3/25	CITY ENGINEER
HORIZONTAL:	FIELD MGR.	TEA 6/25	
NA	RECOMMENDED:	HAS 8-25	
VERTICAL:	DESIGN MANAGER		
NA	FILE:	DRAWING:	DATE JULY 2024
	ATLAS PAGE NO: 3		SHEET 48 OF 77 SHEETS

MATCH LINE STA. 18+50
SEE SHEET 48

STA 19+99
50' LT
EAST M3-2P
M1-4
M1-5
M5-1P(L)

STA 22+23
43' LT
M3-2P EAST WEST M3-4P
M1-4
M1-5
M6-3P M5-1P(R)

1-18 STOP
809 100 'S UTICA AVE.
809 100 'S UTICA AVE.
STA. 23+88.73
58' LT.
STA. 23+70
40' LT.



PAINT NOSES OF
ALL RAISED MEDIANS
REFLECTIVE YELLOW

19+00
4" DASHED
WHITE STRIPE

24" X 40' SOLID
WHITE STOP BAR

40' CYCLE
12' 28'

S. UTICA AVE.

4" SOLID
YELLOW STRIPE

4" SOLID
WHITE STRIPE

STA. 20+35
48' RT.

STA. 20+53
60' RT.

R3-1
D9-2
FRG-1L

STA. 21+05
70' RT.

24" X 37' SOLID
WHITE STOP BAR

4" SOLID
WHITE STRIPE

WEST M3-4P
M1-4
M1-5
M6-1P
STA 20+01
49' RT

22+00
4" SOLID
WHITE STRIPE

24" X 37' SOLID
WHITE STOP BAR

4" DASHED
WHITE STRIPE

PAINT NOSES OF
ALL RAISED MEDIANS
REFLECTIVE YELLOW

4" SOLID
YELLOW STRIPE

4" SOLID
WHITE STRIPE

DOUBLE 4" SOLID
YELLOW STRIPE

24" X 24' SOLID
WHITE STOP BAR

DOUBLE 4" SOLID
YELLOW STRIPE

8" SOLID
YELLOW STRIPE

S. UTICA AVE.

STA. 25+29
38' RT.

STA. 24+32
78' RT.

S. UTICA AVE.
E. 13TH ST. COT 608

STOP R1-1

R3-1

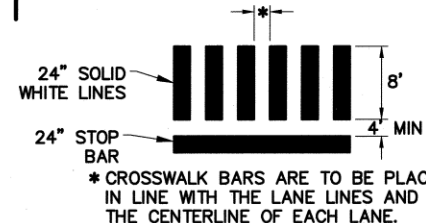
24" X 20' SOLID
WHITE STOP BAR

DOUBLE 4" SOLID
YELLOW STRIPE

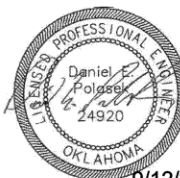
MATCH LINE STA. 18+50
SEE SHEET 50

LEGEND

--- PROJECT LIMITS



CROSSWALK DETAIL
NTS



9/12/2024

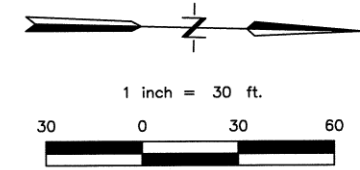
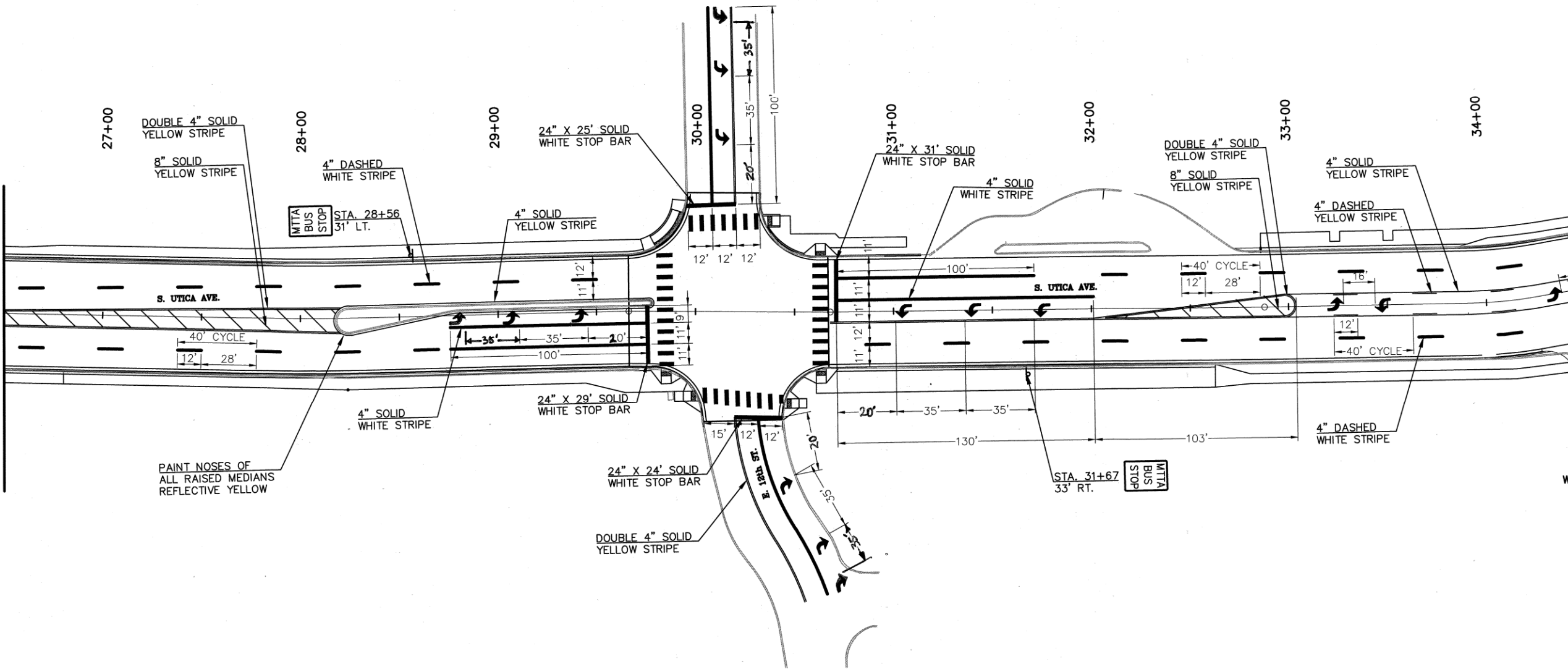


STRIPING PLAN (2 OF 4)	
PROJ. 144017-W, 144017-AX	
ARTERIAL STREET REHABILITATION	
S. UTICA AVE	
E. 11TH ST. TO E. 15TH ST.	
CITY OF TULSA, OKLAHOMA	
PUBLIC WORKS DEPARTMENT	
PLANS & ESTIMATES PREPARED BY:	
BKL, INCORPORATED	
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588	

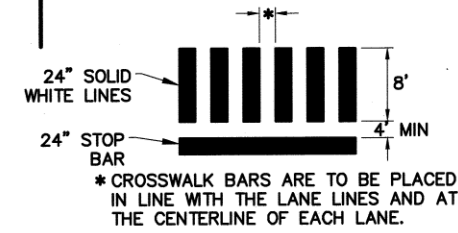
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				SURVEY BY:	TLS	1/17	
			PROFILE SCALE	PROJ. MGR.	M/bm	10/2024	
			HORIZONTAL:	LEAD ENGR.	MUS	3/2025	
			NA	FIELD MGR.	Don	6/25	
			VERTICAL:	RECOMMENDED	403	8-25	
			NA	DESIGN MANAGER			
			FILE:	DRAWING:			
			ATLAS PAGE NO: 3				

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-ST01.dwg, 240813 - 2:26 PM, DEP

MATCH LINE STA. 26+50
SEE SHEET 49



LEGEND
--- PROJECT LIMITS



CROSSWALK DETAIL
NTS

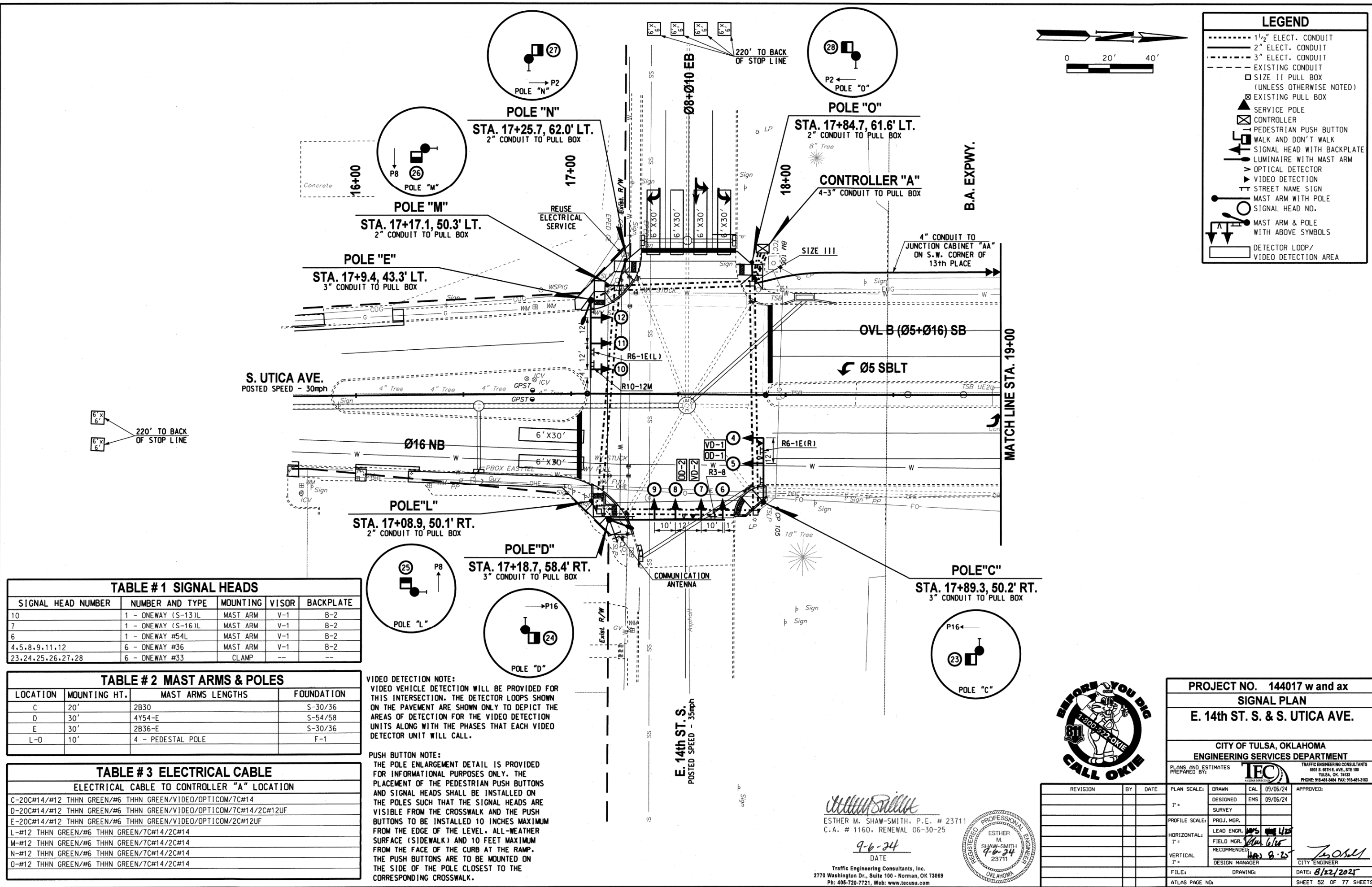


9/12/2024



STRIPING PLAN (3 OF 4)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	PLAN SCALE: DRAWN BY: CGD 7/24
			DESIGNED BY: DEP 7/24
			SURVEY BY: TLS 1/17
			PROFILE SCALE: PROJ. MGR. Msh 10/2024
			LEAD ENGR. MVS 5/2025
			HORIZONTAL: FIELD MGR. RJA 6/25
			VERTICAL: RECOMMENDED: HHS 8-25
			NA DESIGN MANAGER
			FILE: DRAWING: DATE: JULY 2024
			ATLAS PAGE NO: 3 SHEET 50 OF 77 SHEETS

CITY ENGINEER
[Signature]



VIDEO DETECTION NOTE:
VIDEO VEHICLE DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN ONLY TO DEPICT THE AREAS OF DETECTION FOR THE VIDEO DETECTION UNITS ALONG WITH THE PHASES THAT EACH VIDEO DETECTOR UNIT WILL CALL.

TABLE # 1 SIGNAL HEADS

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
1	1 - ONEWAY (S-13)L	MAST ARM	V-1	B-2
17	1 - ONEWAY (S-16)L	MAST ARM	V-1	B-2
16	1 - ONEWAY #54L	MAST ARM	V-1	B-2
2,3,13,14,15,18	6 - ONEWAY #36	MAST ARM	V-1	B-2
19,20,21,22,29,30	6 - ONEWAY #33	CLAMP	--	--

TABLE # 2 MAST ARMS & POLES

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	EX.	2B36	EX.
F	20'	3G42	S-42/50
G	30'	3G42-E	S-42/50
H,I,J,K,P	10'	5 - PEDESTAL POLE	F-1

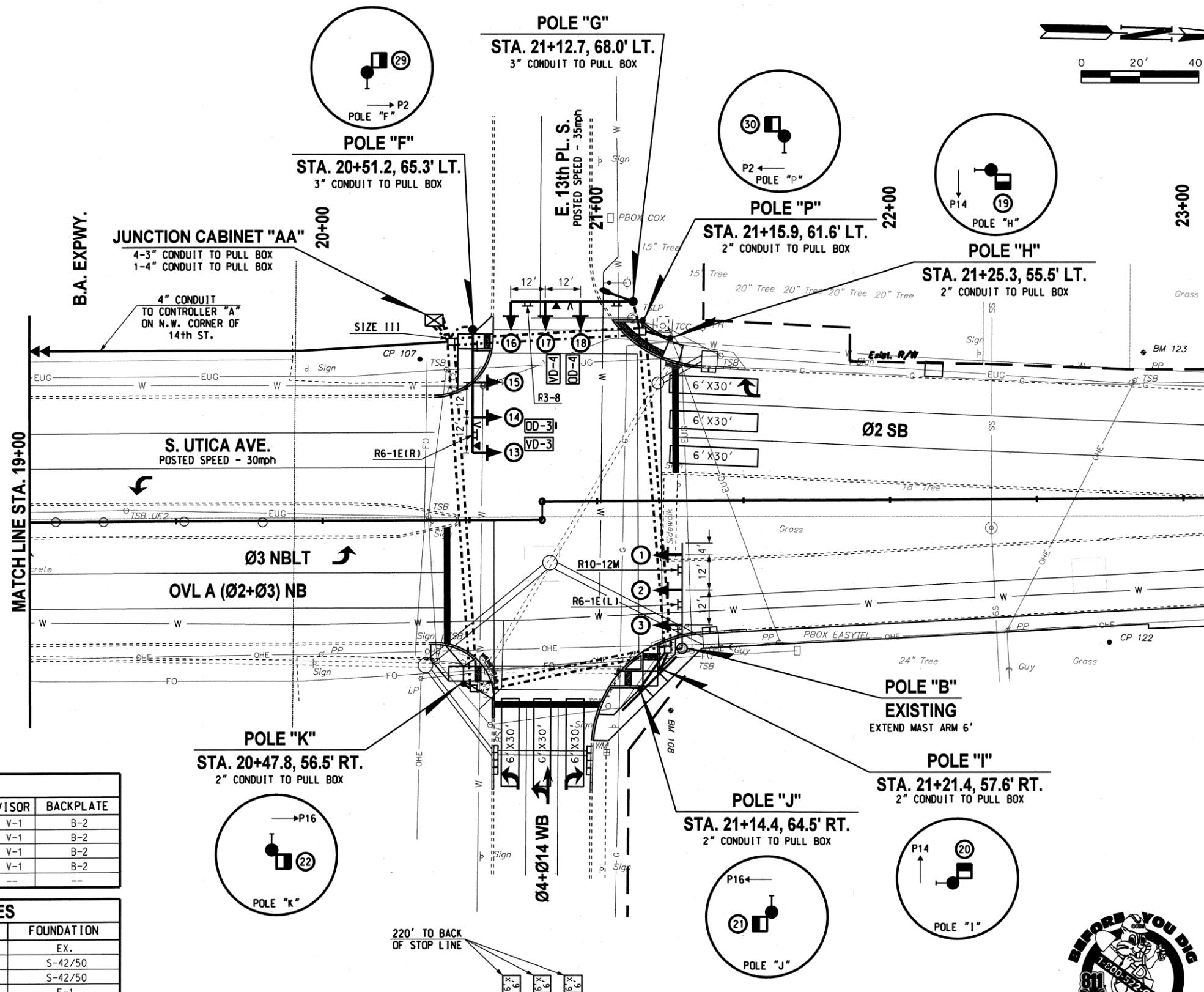
TABLE # 3 ELECTRICAL CABLE

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION

B - 20C#14/#12 THHN GREEN/#6 THHN GREEN/VIDEO/OPTICOM
F - 20C#14/#12 THHN GREEN/#6 THHN GREEN/VIDEO/OPTICOM/7C#14
G - 20C#14/#12 THHN GREEN/#6 THHN GREEN/VIDEO/OPTICOM/2C#12UF
H - #12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14
I - #12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14
J - #12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14
K - #12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14
P - #12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14

PUSH BUTTON NOTE:

THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS TO BE INSTALLED 10 INCHES MAXIMUM FROM THE EDGE OF THE LEVEL, ALL-WEATHER SURFACE (SIDEWALK) AND 10 FEET MAXIMUM FROM THE FACE OF THE CURB AT THE RAMP. THE PUSH BUTTONS ARE TO BE MOUNTED ON THE SIDE OF THE POLE CLOSEST TO THE CORRESPONDING CROSSWALK.

**LEGEND**

- 1 1/2" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE 11 PULL BOX (UNLESS OTHERWISE NOTED)
- ☒ EXISTING PULL BOX
- ▲ SERVICE POLE
- ⊠ CONTROLLER
- ⊠ PEDESTRIAN PUSH BUTTON
- ⊠ WALK AND DON'T WALK
- ⊠ SIGNAL HEAD WITH BACKPLATE
- ⊠ LUMINAIRE WITH MAST ARM
- ⊠ OPTICAL DETECTOR
- ⊠ VIDEO DETECTION
- ⊠ STREET NAME SIGN
- ⊠ MAST ARM WITH POLE
- ⊠ SIGNAL HEAD NO.
- ⊠ MAST ARM & POLE WITH ABOVE SYMBOLS
- ⊠ DETECTOR LOOP/VIDEO DETECTION AREA

220' TO BACK OF STOP LINE



PROJECT NO. 144017 w and ax
SIGNAL PLAN
E. 13th Pl. S. & S. UTICA AVE.

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

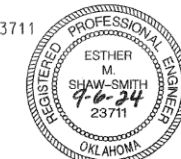
PLANS AND ESTIMATES PREPARED BY: **TEC** TRAFFIC ENGINEERING CONSULTANTS
881 S. BATTLE AVE., STE 100
TULSA, OK 74133
PHONE: 918-481-3424 FAX: 918-481-3183

REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL	09/06/24	APPROVED:
			1" =	DESIGNED	EMS	09/06/24	
			PROFILE SCALE:	SURVEY			
			HORIZONTAL:	PROJ. MGR.			
			1" =	LEAD ENGR.	MWS	1/25	
			VERTICAL:	FIELD MGR.	TEC	6/25	
			1" =	RECOMMENDED:			
			FILE:	DESIGN MANAGER			
			DRAWING:				
			ATLAS PAGE NO:				

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25

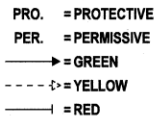
9-6-24
DATE

Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com



DATE: 8/22/2025
SHEET 53 OF 77 SHEETS

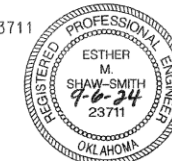
09/06/24 G:\0\Projects\T0-804 13th Pl14th St & Utica SignalMod - Tulsa (See T0-826 & T0-6220)\CAD\DET 11314.dgn



SEQUENCE CHART																			
DIRECTION	BLOCK NO.	PHASE																	
		Ø3	ØVL A	Ø16	Ø8+ Ø10	Ø8+ Ø10	Ø8+ Ø10	Ø5	ØVL B	Ø2	Ø4+ Ø14	Ø4+ Ø14	Ø4+ Ø14	P14	P16	P8	P2		
		SIGNAL HEAD NO.																	
		1	2,3	4,5	6	7	8,9	10	11,12	13-15	16	17	18	19,20	21-24	25,26	27-30		
Ø3, Ø5, Ø16, ØVL A, ØVL B, P1 ROW	1	←G	G	G	←R	R	R	←Y	G	R	←R	R	R	DW	W	DW	DW		
Ø3, Ø5, Ø16, ØVL A, ØVL B ROW & P1 CL	1A	←G	G	G	←R	R	R	←Y	G	R	←R	R	R	DW	FDW	DW	DW		
Ø3, ØVL A ROW & Ø5, Ø16, ØVL B CL	2	←G	G	Y	←R	R	R	←Y	Y	R	←R	R	R	DW	DW	DW	DW		
Ø3, Ø8, ØVL A, P2 ROW	3	←G	G	R	←G	G	←R	R	R	←R	R	R	R	DW	DW	W	DW		
Ø3, Ø8, ØVL A ROW & P2 CL	3A	←G	G	R	←G	G	←R	R	R	←R	R	R	R	DW	DW	FDW	DW		
Ø8, ØVL A ROW & Ø3 CL	4	←Y	G	R	←G	G	←R	R	R	←R	R	R	R	DW	DW	DW	DW		
Ø2, Ø3, Ø10, ØVL A ROW	5	←Y	G	R	←G	G	←R	R	G	←R	R	R	R	DW	DW	DW	DW		
Ø2, Ø3, ØVL A ROW & Ø10 CL	6	←Y	G	R	←Y	Y	Y	←R	R	G	←R	R	R	DW	DW	DW	DW		
Ø2, Ø3, Ø5, ØVL A, ØVL B, P4 ROW	7	←Y	G	R	←R	R	R	←G	G	G	←R	R	R	DW	DW	DW	W		
Ø2, Ø3, Ø5, ØVL A, ØVL B ROW & P4 CL	7A	←Y	G	R	←R	R	R	←G	G	G	←R	R	R	DW	DW	DW	FDW		
Ø5, ØVL B ROW & Ø2, Ø3, ØVL A CL	8	←Y	Y	R	←R	R	R	←G	G	Y	←R	R	R	DW	DW	DW	DW		
Ø4, Ø5, ØVL B, P5 ROW	9	←R	R	R	←R	R	R	←G	G	R	←G	G	W	DW	DW	DW	DW		
Ø4, Ø5, ØVL B ROW & P5 CL	9A	←R	R	R	←R	R	R	←G	G	R	←G	G	FDW	DW	DW	DW	DW		
Ø4, ØVL B ROW & Ø5 CL	10	←R	R	R	←R	R	R	←Y	G	R	←G	G	DW	DW	DW	DW	DW		
Ø5, Ø14, Ø16, ØVL B ROW	11	←R	R	G	←R	R	R	←Y	G	R	←G	G	DW	DW	DW	DW	DW		
Ø5, Ø16, ØVL B ROW & Ø14 CL	12	←R	R	G	←R	R	R	←Y	G	R	←Y	Y	Y	DW	DW	DW	DW		
Ø3, Ø5, ØVL A, ØVL B ROW & Ø16 CL	13	←G	G	Y	←R	R	R	←Y	G	R	←R	R	R	DW	DW	DW	DW		
Ø3, Ø5, ØVL A, ØVL B ROW	14	←G	G	R	←R	R	R	←G	G	R	←R	R	R	DW	DW	DW	DW		
Ø5, ØVL A, ØVL B ROW & Ø3 CL	15	←Y	G	R	←R	R	R	←G	G	R	←R	R	R	DW	DW	DW	DW		
Ø5, ØVL B ROW & Ø3, ØVL A CL	16	←Y	Y	R	←R	R	R	←G	G	R	←R	R	R	DW	DW	DW	DW		
Ø3, ØVL A ROW & Ø8 CL	17	←G	G	R	←Y	Y	Y	←R	R	R	←R	R	R	DW	DW	DW	DW		
Ø3, ØVL A ROW	18	←G	G	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW		
Ø3, ØVL A CL	19	←Y	Y	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW		
Ø3, Ø5, ØVL A, ØVL B ROW, Ø2 CL	20	←Y	G	R	←R	R	R	←G	G	Y	←R	R	R	DW	DW	DW	DW		
Ø3, Ø5, ØVL A, ØVL B ROW	21	←G	G	R	←R	R	R	←G	G	R	←R	R	R	DW	DW	DW	DW		
Ø3, ØVL A, ØVL B ROW & Ø5 CL	22</																		



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2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com



REVISION		BY	DATE	PLAN SCALE:		DRAWN		CAL	09/06/24	APPROVED:	
				1" = NA		DESIGNED		EMS	09/06/24		
						SURVEY					
				PROFILE SCALE:		PROJ. MGR.					
				HORIZONTAL:		LEAD ENGR.		MVS	1/25		
				1" = NA		FIELD MGR.		2024	6/10		
				VERTICAL:		RECOMMENDED:					
				1" = NA		DESIGN MANAGER					
FILE:				DRAWING:				DATE: 8/22/2025			
ATLAS PAGE NO:								SHEET 54 OF 77 SHEETS			

PROJECT NO. 144017 w and ax
SIGNAL DETAIL PLAN (1 of 2)
S. UTICA AVE. &
E. 13th PL. S/E. 14th ST. S.
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES
PREPARED BY:

TEC
A L L E N T H O M A S

TRAFFIC ENGINEERING CONSULTANTS
6831 S. 66TH E. AVE., STE 100
TULSA, OK 74133
PHONE: 918-481-8484 FAX: 918-481-3163

TRAFFIC ENGINEERING CONSULTANTS
6931 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-8434 FAX: 918-481-3163

APPROVED: _____

10122

100

— *Journal of the American Medical Association*

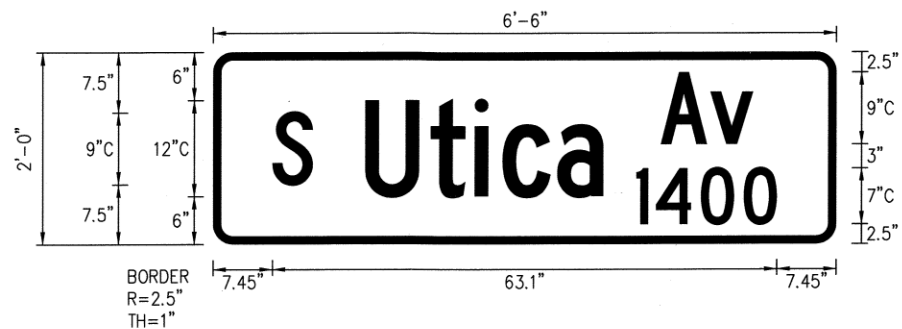
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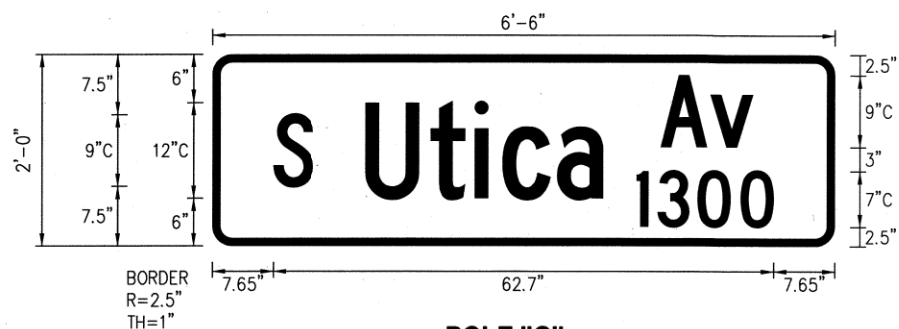
how

 CITY ENGINEER

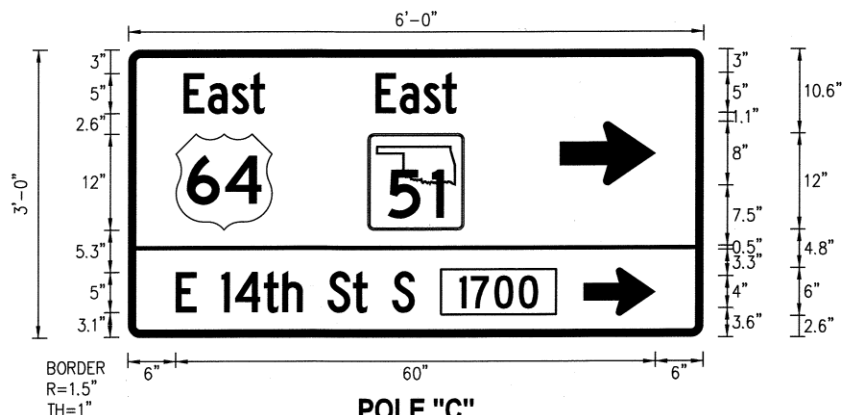
E: 8/22/2025



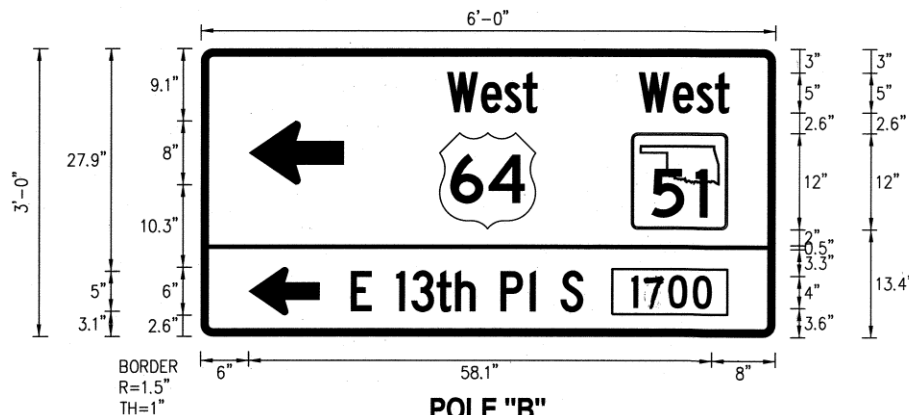
POLE "D"



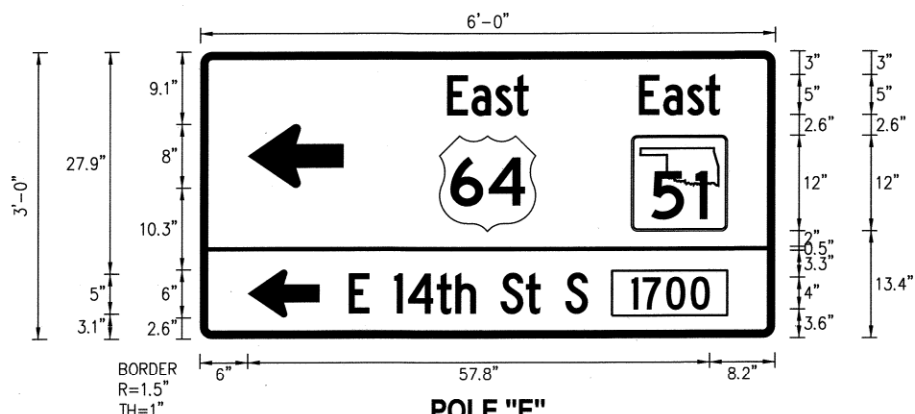
POLE "G"



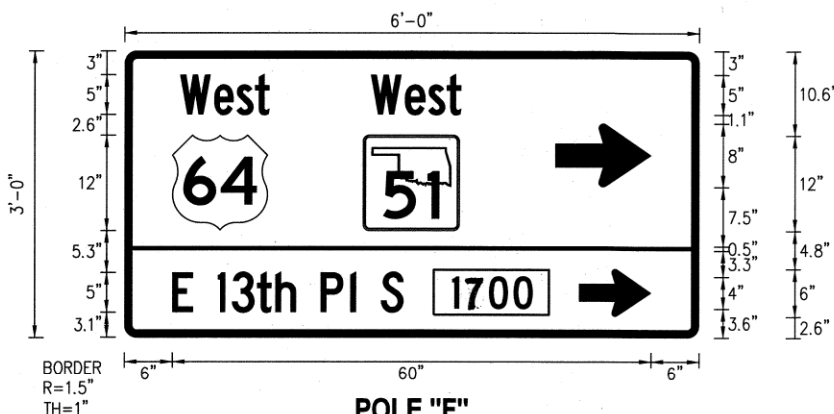
POLE "C"
SPECIAL SIGN NO. 1
18.00 SQ. FT.
LEGEND, SYMBOL & BORDER - WHITE REFLECTIVE
BACKGROUND - GREEN REFLECTIVE



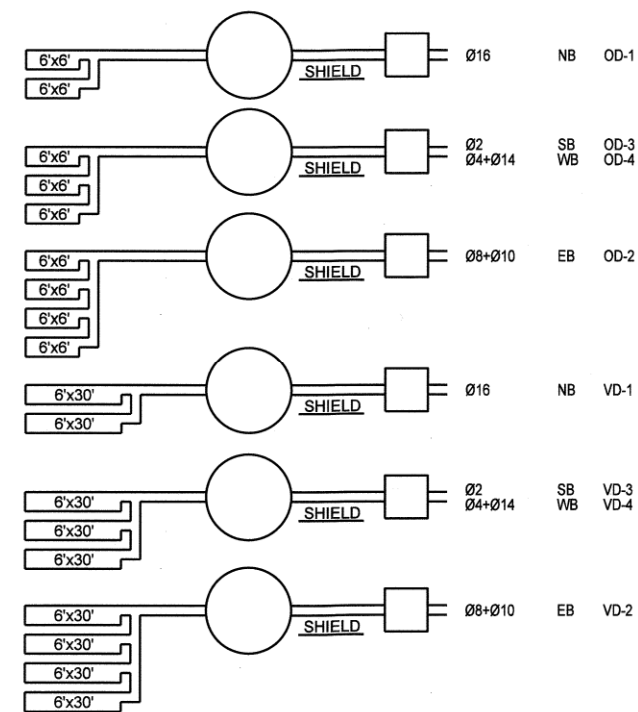
POLE "B"
SPECIAL SIGN NO. 2
18.00 SQ. FT.
LEGEND, SYMBOL & BORDER - WHITE REFLECTIVE
BACKGROUND - GREEN REFLECTIVE



POLE "E"
SPECIAL SIGN NO. 3
18.00 SQ. FT.
LEGEND, SYMBOL & BORDER - WHITE REFLECTIVE
BACKGROUND - GREEN REFLECTIVE



POLE "F"
SPECIAL SIGN NO. 4
18.00 SQ. FT.
LEGEND, SYMBOL & BORDER - WHITE REFLECTIVE
BACKGROUND - GREEN REFLECTIVE

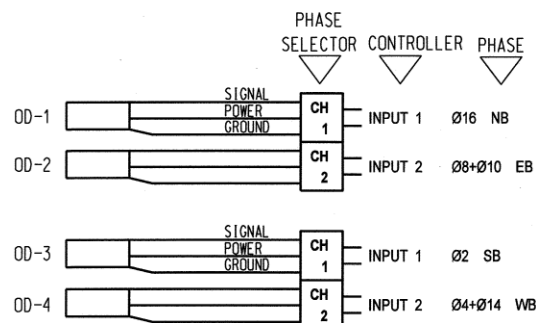


AREAS OF DETECTION

SUMMARY OF MAST ARM MOUNTED SIGNS						
MESSAGE	POLE LOCATION	NO. OF SIGN	LENGTH	HEIGHT	SQ. FT. SIGN AREA	TOTAL AREA SQ. FT.
S Utica Av	D,G	2	78"	24"	13.00	26.00
SP. SIGN NO. 1	C	1	72"	24"	18.00	18.00
SP. SIGN NO. 2	B	1	72"	24"	18.00	18.00
SP. SIGN NO. 3	E	1	72"	24"	18.00	18.00
SP. SIGN NO. 4	F	1	72"	24"	18.00	18.00
R10-12	B,E	2	30"	36"	7.50	15.00
R3-8	D,G	2	36"	36"	9.00	18.00
R6-1E(L)	B,E	2	54"	18"	6.75	13.50
R6-1E(R)	C,F	2	54"	18"	6.75	13.50
TOTAL						158.00

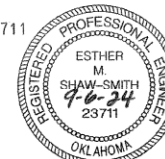
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NUMBER / NAME = 12" SERIES 'C' 2000 (WHITE)
NUMBER SUFFIX = 9" SERIES 'C' 2000 (WHITE)
SECONDARY DIRECTION = 12" SERIES 'C' 2000 (WHITE)
STREET TYPE = 9" SERIES 'C' 2000 (WHITE)
BLOCK NUMBER = 7" SERIES 'C' 2000 (WHITE)

SHEETING = DIAMOND GRADE VIP (WHITE)
OVERLAY = ELECTRONIC CUTTABLE OVERLAY FILM (GREEN)



PRE-EMPTOR DETAILS

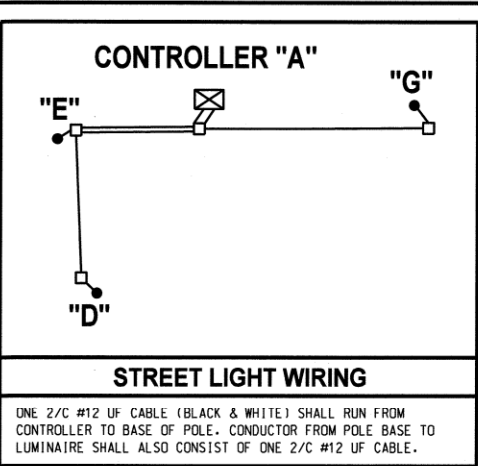
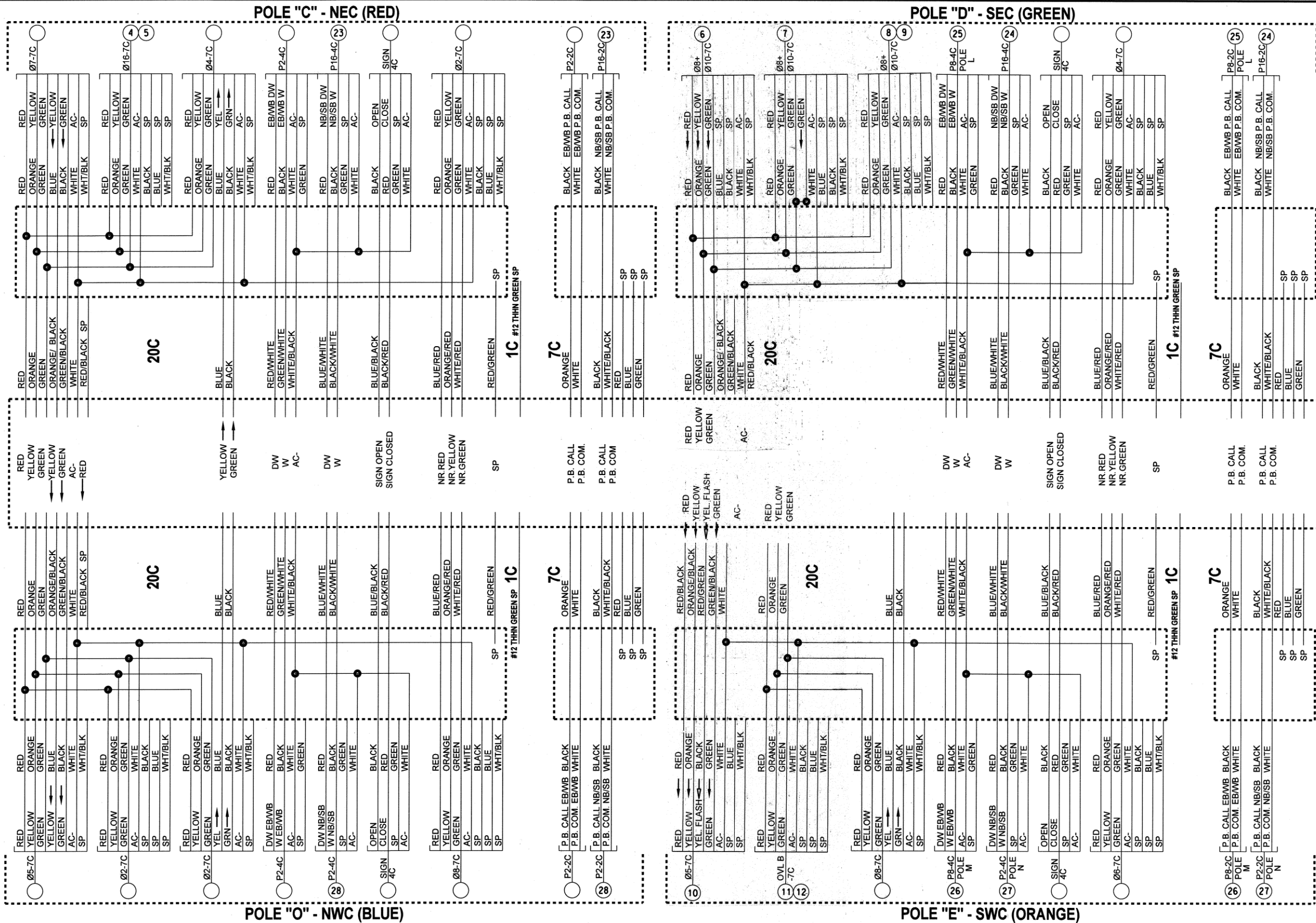
ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25



REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL	09/06/24	APPROVED:
			1" = NA	DESIGNED	EMS	09/06/24	
			PROFILE SCALE:	SURVEY			
				PROJ. MGR.	MUS	03/2025	
			HORIZONTAL:	LEAD ENGR.			
			1" = NA	FIELD MGR.			
				RECOMMENDED			
			VERTICAL:	DESIGN MANAGER			
			1" = NA				
			FILE:	DRAWING:			
			ATLAS PAGE NO:				

PROJECT NO. 144017 w and ax	
SIGNAL DETAIL PLAN (2 of 2)	
S UTICA AVE. &	
E 13th PL. S. / E 14th ST. S.	
CITY OF TULSA, OKLAHOMA	
ENGINEERING SERVICES DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY:	TEC
TRAFFIC ENGINEERING CONSULTANTS 4011 S. 80TH E. AVE., SUITE 100 TULSA, OK 74133 PHONE: 918-481-3484 FAX: 918-481-3163	

WIRING IN SIGNAL HEAD				WIRING IN POLE BASE			WIRING IN CONDUIT			WIRING IN CONTROLLER			WIRING IN CONDUIT			WIRING IN POLE BASE			WIRING IN SIGNAL HEAD			
SIG. NO.	CABLE IDENT. NO.	FUNCTION	CON. NO.	WIRE COLOR	TERMINAL	CONDUCTOR NO.	WIRE COLOR	CABLE IDENT. NO.	TERMINAL NO.	FUNCTION	PHASE	WIRE COLOR	CABLE IDENT. NO.	CONDUCTOR NO.	TERMINAL	CONDUCTOR NO.	WIRE COLOR	TERMINAL	CON. NO.	FUNCTION	CABLE IDENT. NO.	



NOTE:
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25
9-6-24
DATE
Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com



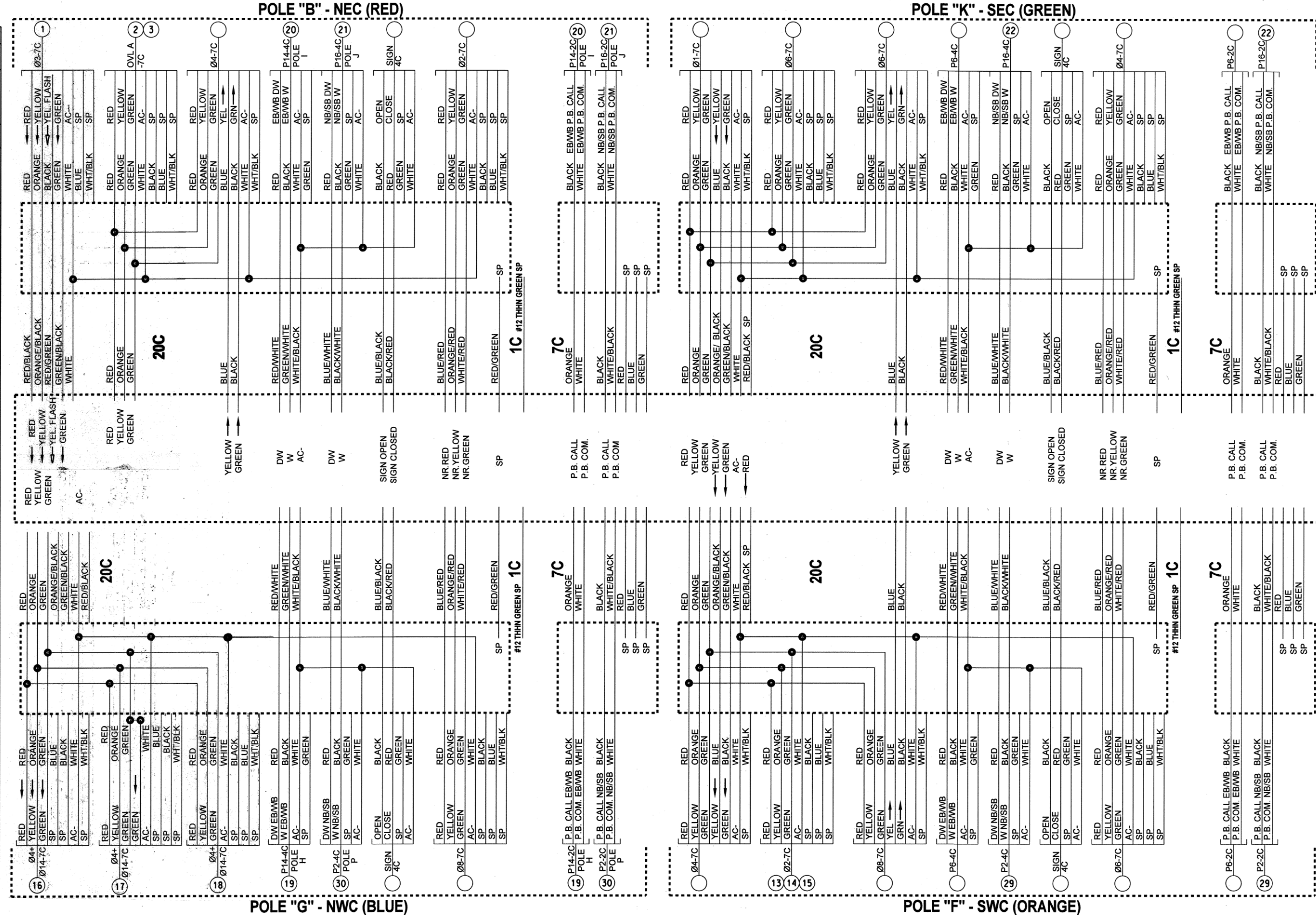
REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL	09/06/24	APPROVED:
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			PROFILE SCALE:	SURVEY			
				PROJ. MGR.	MUS	03/2025	
			HORIZONTAL:	LEAD ENGR.			
			1" =	FIELD MGR.	Ken 6/25		
			VERTICAL:	RECOMMENDED			
			1" =	DESIGN MANAGER	HBJ 8-25		
			FILE:	DRAWING:			
			ATLAS PAGE NO:				

PROJECT NO. 144017 w and ax
WIRING DIAGRAM (1 of 2)
E. 14th ST. S. & S. UTICA AVE.

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **TEC** TRAFFIC ENGINEERING CONSULTANTS
801 S. WILHELM AVE., SUITE 100
TULSA, OK 74133
PHONE: 918-481-9884 FAX: 918-481-3163

WIRING IN SIGNAL HEAD					WIRING IN POLE BASE			WIRING IN CONDUIT			WIRING IN CONTROLLER			WIRING IN CONDUIT			WIRING IN POLE BASE			WIRING IN SIGNAL HEAD								
SIG ID NO.	CABLE IDENT.	FUNCTION	CON. NO.	WIRE COLOR	TERMINAL	CONDUCTOR NO.		WIRE COLOR	CABLE IDENT.			TERMINAL NO.	FUNCTION	PHASE		WIRE COLOR	CABLE IDENT.			WIRE COLOR	CABLE IDENT.	CONDUCTOR NO.	TERMINAL	WIRE COLOR	CON. NO.	FUNCTION	CABLE IDENT.	SIG ID NO.



PROJECT NO. 144017 w and ax			
WIRING DIAGRAM (2 of 2)			
E. 13th PL. S. & S. UTICA AVE.			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		APPROVED:	
PLAN SCALE:		DRAWN: CAL 09/06/24	
1" =		DESIGNED: EMS 09/06/24	
PROFILE SCALE:		SURVEY:	
HORIZONTAL:		PROJ. MGR. MVS 08/2025	
1" =		LEAD ENGR.	
VERTICAL:		FIELD MGR. HVS 8-25	
1" =		RECOMMENDED:	
FILE:		DRAWING:	
ATLAS PAGE NO:		CITY ENGINEER	
		DATE: 8/22/2025	
		SHEET 57 OF 77 SHEETS	

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25

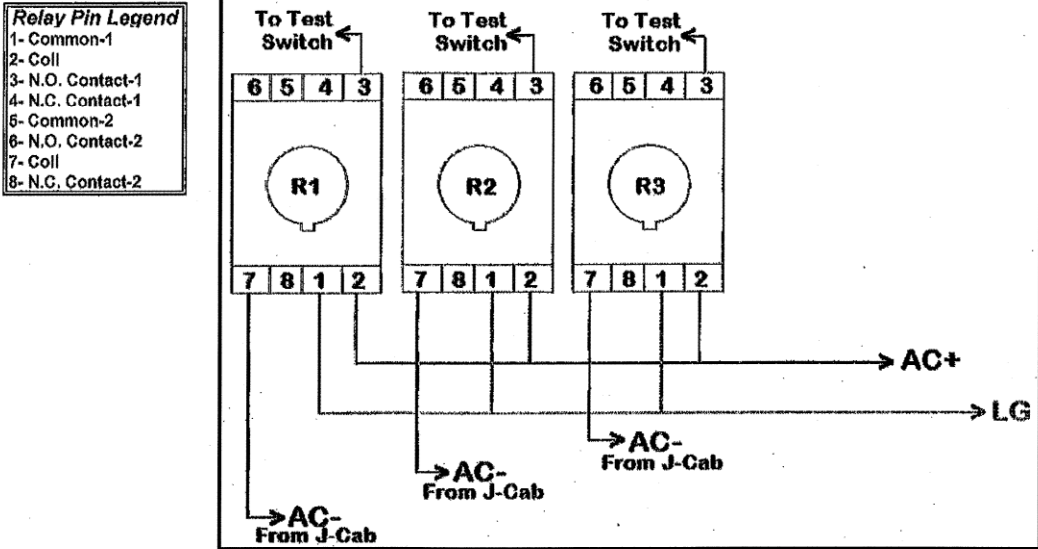
9-6-24
DATE

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2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 406-720-7721, Web: www.tecusa.com

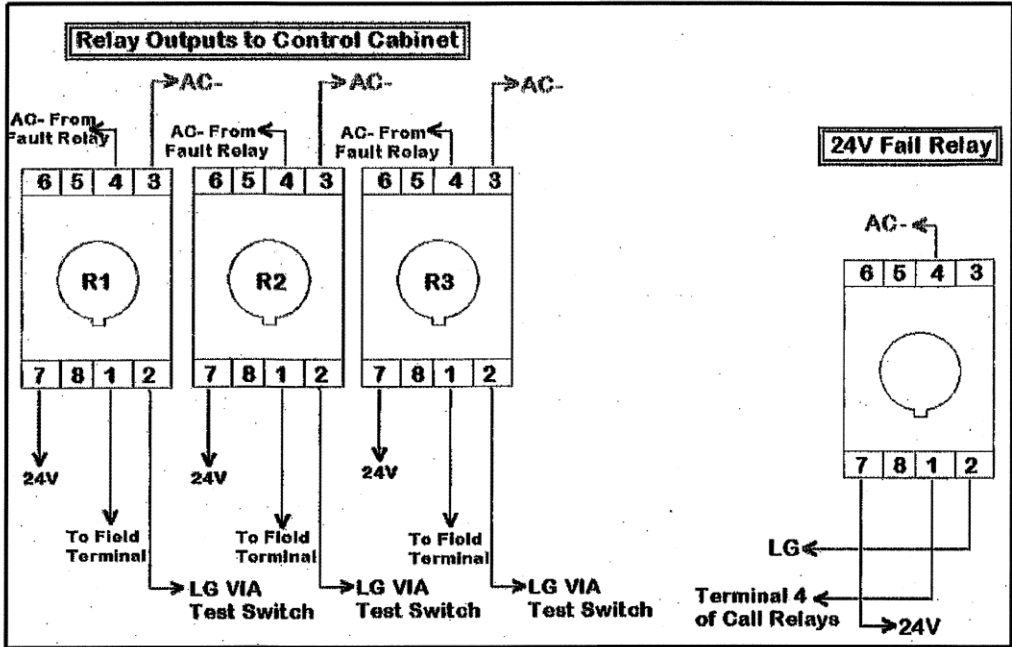


NOTE:
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING
INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE
SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

DIAMOND CONTROL CABINET RELAYS



DIAMOND JUNCTION CABINET RELAYS



Junction Cabinet

	VIP 3.2-1		VIP 3.2-2		VIEWCOMM		
	T-1	T-2	T-3	T-4	T-5	T-6	
SPARE							SPARE
F	OUT 3	OUT 1	OUT 3	OUT 1			F
W	OUT 4	OUT 2	OUT 4	OUT 2			W
D	V2+	V1+	V2+	V1+	T4-J	T2-J	D
E	V2-	V1-	V2-	V1-	T4-K	T2-K	E
J	T5-J	T6-D	T5-J	T5-D	T1+3-J		J
K	T5-K	T6-E	T5-K	T5-E	T1+3-K		K
L							L

Control Cabinet

	VIP 3.2-1		VIP 3.2-2		VIEWCOMM		
	T-2	T-3	T-6	T-7	T-8	T-9	
SPARE							SPARE
F	OUT 3	OUT 1	OUT 3	OUT 1			F
W	OUT 4	OUT 2	OUT 4	OUT 2			W
D	V2+	V1+	V2+	V1+	T7-J	T3-J	D
E	V2-	V1-	V2-	V1-	T7-K	T3-K	E
J	T8-J	T9-D	T8-J	T8-D	T2+6-J		J
K	T8-K	T9-E	T8-K	T8-E	T2+6-K		K
L							L

PROVIDED BY THE
CITY OF TULSA.

PROJECT NO. 144017 w and ax
CABINET MODIFICATION DETAIL
S. UTICA AVE. &
E. 13th PL. S. / E. 14th ST. S.
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES
PREPARED BY: **TEC**
TRAFFIC ENGINEERING CONSULTANTS
8011 S. 60TH E. AVE. STE 100
TULSA, OK 74133
PHONE: 918-481-3434 FAX: 918-481-3163

REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL	09/06/24	APPROVED:
			1" = NA	DESIGNED	EMS	09/06/24	
			PROFILE SCALE:	SURVEY			
				PROJ. MGR.	MVS	02/25	
			HORIZONTAL:	LEAD ENGR.			
			1" = NA	FIELD MGR.	02/25		
			VERTICAL:	RECOMMENDED:			
			1" = NA	DESIGN MANAGER	02/25		
			FILE:	DRAWING:			
			ATLAS PAGE NO:				

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25

9-6-24
DATE

Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com



DATE: 8/22/2025
SHEET 58 OF 77 SHEETS

NOTE: ALL ELECTRICAL CABLES
TO BE REPLACED AT THIS
INTERSECTION.

NOTE: REUSE EXISTING
MAST ARM POLES.

TABLE # 1 SIGNAL HEADS

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
3.8 NEW	2 - (S-13)IL	MAST ARM	V-1	B-2
1,4,5,6,7,9,10 EX.	7 - #36	MAST ARM	V-1	B-2
2 EX.	1 - #64R	MAST ARM	V-1	B-2
11,12,13,14,15,16,17,18 EX	8 - #33	CLAMP	--	--

TABLE # 2 MAST ARMS & POLES

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B EX.	32' EX.	EXISTING 18' T.S. & 10' LUM.	EX.
C EX.	21' EX.	EXISTING 36' T.S.	EX.
D EX.	21' EX.	EXISTING 24' T.S.	EX.
E EX.	21' EX.	EXISTING 42' T.S.	EX.
F-L	10' NEW	7 - PEDESTAL POLE	F-1

TABLE # 3 ELECTRICAL CABLE

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION

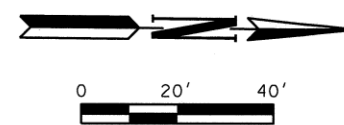
B-20#14/#12 THHN GREEN/VIDEO/2C#12 UF/#6 THHN GREEN
C-20#14/#12 THHN GREEN/VIDEO/7C#14/#6 THHN GREEN
D-20#14/#12 THHN GREEN/VIDEO/#6 THHN GREEN
E-20#14/#12 THHN GREEN/VIDEO/#6 THHN GREEN
F-L-#12 THHN GREEN/#6 THHN GREEN/7C#14/2C#14

VIDEO DETECTION NOTE:
VIDEO VEHICLE DETECTION WILL BE PROVIDED FOR
THIS INTERSECTION. THE DETECTOR LOOPS SHOWN
ON THE PAVEMENT ARE SHOWN ONLY TO DEPICT THE
AREAS OF DETECTION FOR THE VIDEO DETECTION
UNITS ALONG WITH THE PHASES THAT EACH VIDEO
DETECTOR UNIT WILL CALL.

PUSH BUTTON NOTE:
THE POLE ENLARGEMENT DETAIL IS PROVIDED
FOR INFORMATIONAL PURPOSES ONLY. THE
PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS
AND SIGNAL HEADS SHALL BE INSTALLED ON
THE POLES SUCH THAT THE SIGNAL HEADS ARE
VISIBLE FROM THE CROSSWALK AND THE PUSH
BUTTONS TO BE INSTALLED 10 INCHES MAXIMUM
FROM THE EDGE OF THE LEVEL. ALL-WEATHER
SURFACE (SIDEWALK) AND 10 FEET MAXIMUM
FROM THE FACE OF THE CURB AT THE RAMP.
THE PUSH BUTTONS ARE TO BE MOUNTED ON
THE SIDE OF THE POLE CLOSEST TO THE
CORRESPONDING CROSSWALK.

LEGEND

- 1 1/2" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE 11 PULL BOX
(UNLESS OTHERWISE NOTED)
- ⊗ EXISTING PULL BOX
- SERVICE POLE
- ⊗ CONTROLLER
- ⊗ PEDESTRIAN PUSH BUTTON
- ⊗ WALK AND DON'T WALK
- ⊗ SIGNAL HEAD WITH BACKPLATE
- ⊗ LUMINAIRE WITH MAST ARM
- ⊗ OPTICAL DETECTOR
- ⊗ VIDEO DETECTION
- ⊗ STREET NAME SIGN
- ⊗ MAST ARM WITH POLE
- ⊗ SIGNAL HEAD NO.
- ⊗ MAST ARM & POLE
WITH ABOVE SYMBOLS
- ⊗ DETECTOR LOOP/
VIDEO DETECTION AREA



256' TO BACK
OF STOP LINE

"O"

"O"



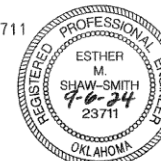
PROJECT NO. 144017 w and ax
SIGNAL PLAN
E. 12th ST. S. & S. UTICA AVE.

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES
PREPARED BY: **TEC**
TRAFFIC ENGINEERING CONSULTANTS
8901 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-5424 FAX: 918-481-5163

REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL	09/06/24	APPROVED:
			1" = 20'	DESIGNED	EMS	09/06/24	
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
				LEAD ENGR.	MWS	1/25	
			HORIZONTAL:	FIELD MGR.	Shaw	6/25	
			1" =	RECOMMENDED			
			VERTICAL:	DESIGN MANAGER	MWS	6-25	
			1" =				
			FILE:	DRAWING:			
			ATLAS PAGE NO:				

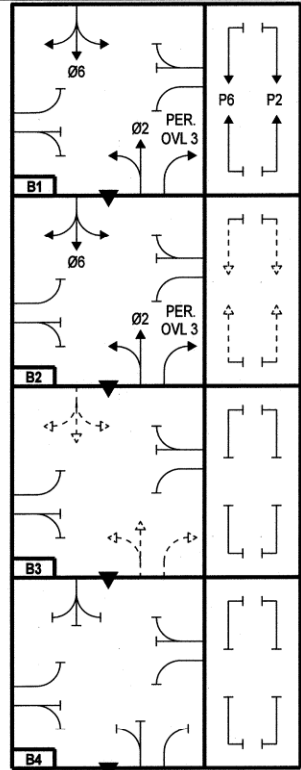
ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25



Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com

CITY ENGINEER
DATE: 8/22/2025
SHEET 59 OF 77 SHEETS

PHASING DIAGRAM	
PHASE "A"	PHASE "B"
S. UTICA AVE.	E. 12th ST. S.



TO:A1,A3,A8 OR A11



PRIMARY DIRECTION = 9" SERIES 'C' 2000 (WHITE)
 NUMBER / NAME = 12" SERIES 'C' 2000 (WHITE)
 NUMBER SUFFIX = 9" SERIES 'C' 2000 (WHITE)
 SECONDARY DIRECTION = 12" SERIES 'C' 2000 (WHITE)
 STREET TYPE = 9" SERIES 'C' 2000 (WHITE)
 BLOCK NUMBER = 7" SERIES 'C' 2000 (WHITE)

SHEETING = DIAMOND GRADE VIP (WHITE)
 OVERLAY = ELECTRONIC CUTTABLE OVERLAY FILM (GREEN)

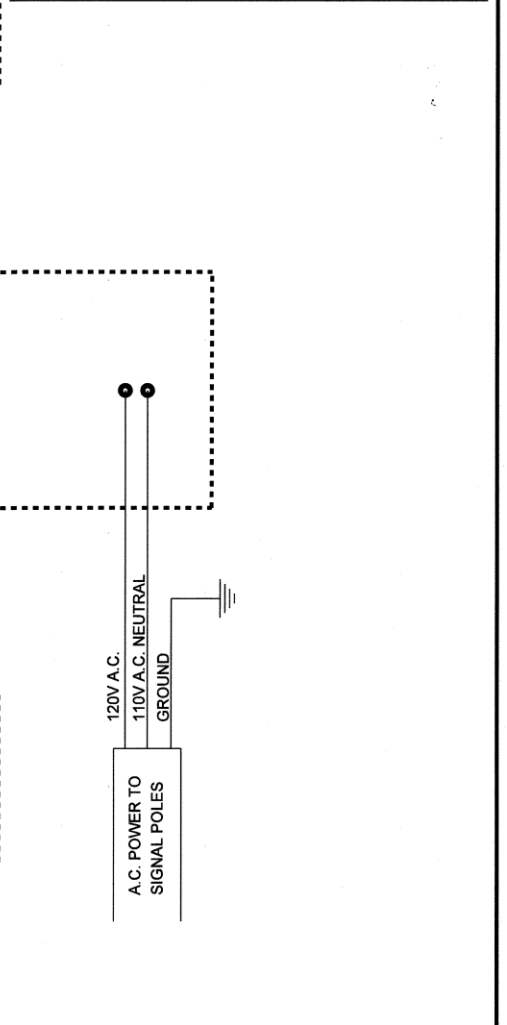
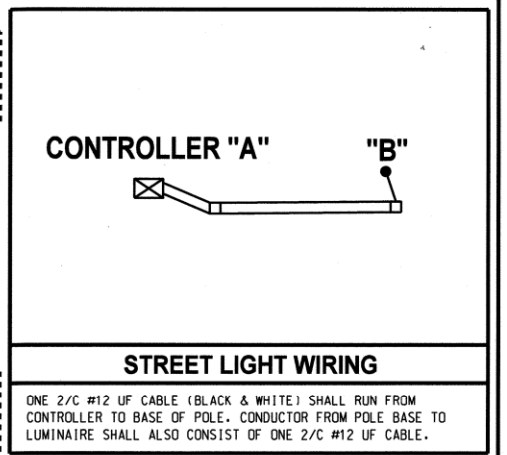
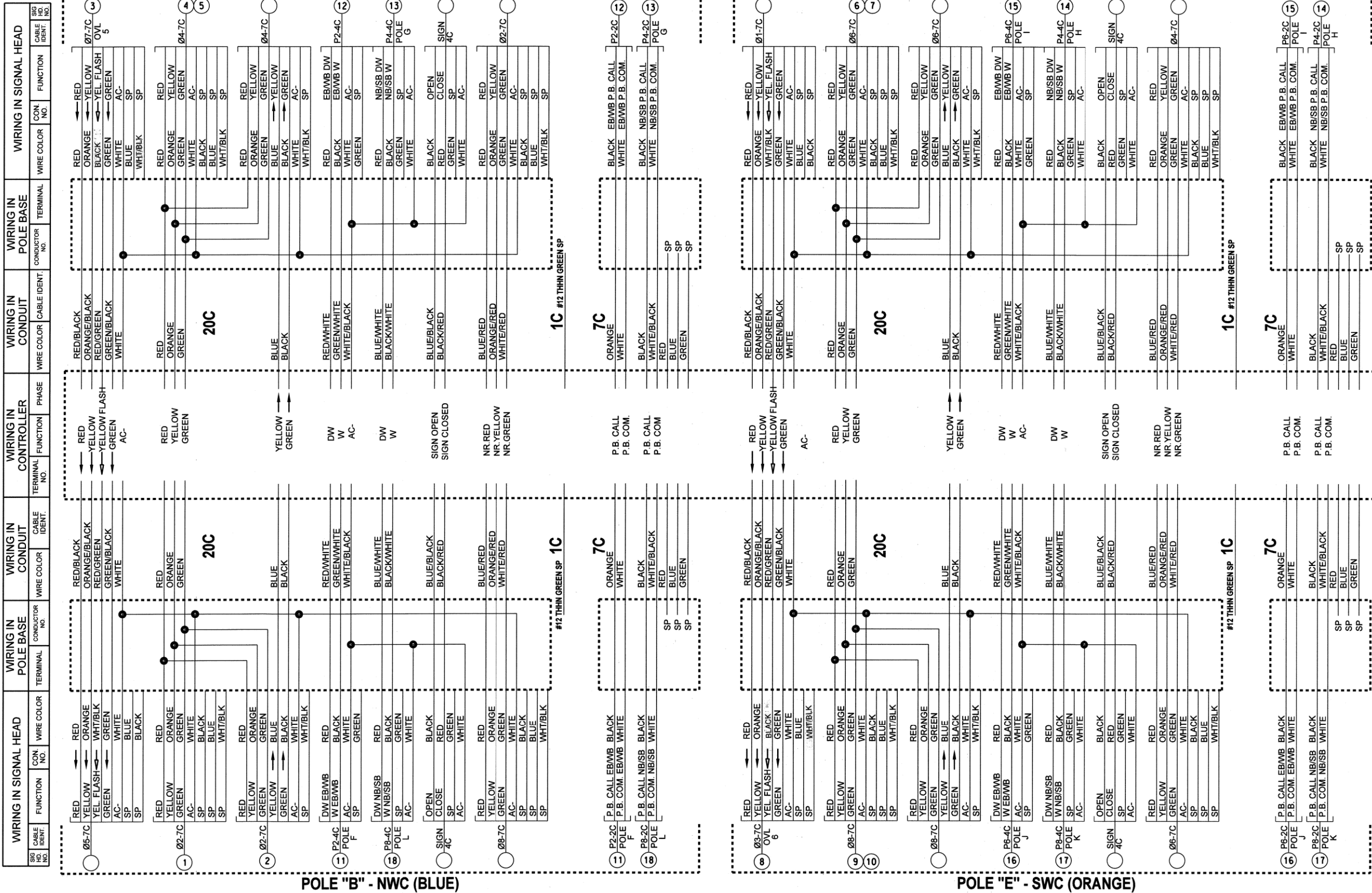


Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com



	Ø8 Ø4	SB NB	VD-2 VD-1
	Ø8 Ø4	SB NB	VD-2 VD-1
	Ø3 OVL 6 Ø2 Ø1 OVL 3 Ø7 OVL 5	SBLT WB WBRT NBLT	VD-2 VD-4 VD-4 VD-1
	Ø6	EB	VD-3

REVISION	BY	DATE	PLAN SCALE:	DRAWN	CAL.	09/06/24	APPROVED: CITY ENGINEER DATE: 9/22/2025
			1" = NA	DESIGNED	EMS	09/06/24	
				SURVEY			
			PROFILE SCALE:	PROJ., MGR.			
			HORIZONTAL:	LEAD ENGR.	MWS	1/25	
			1" = NA	FIELD MGR.	Jane C/CS		
			VERTICAL:	RECOMMENDED	MWS	B-25	
			1" = NA	DESIGN MANAGER			
FILE:			DRAWING:			DATE: 9/22/2025	
ATLAS PAGE NO:							SHEET 60 OF 77 SHEETS



PROJECT NO. 144017 w and ax
WIRING DIAGRAM
E. 12th ST. S. & S. UTICA AVE.
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT
PLANS AND ESTIMATES
PREPARED BY: **TEC**
TRAFFIC ENGINEERING CONSULTANTS
8801 S. 68TH E. AVE., STE 100
TULSA, OK 74133
PHONE: 918-481-8484 FAX: 918-481-5163
APPROVED: **TEC**
TRAFFIC ENGINEERING CONSULTANTS
8801 S. 68TH E. AVE., STE 100
TULSA, OK 74133
PHONE: 918-481-8484 FAX: 918-481-5163
REVISION:

REVISION	BY	DATE
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PLAN SCALE:

PLAN SCALE	DRAWN	CAL	DATE
1" = N/A	DESIGNED	EMS	09/06/24
1" = N/A	SURVEY		

PROFILE SCALE:

PROFILE SCALE	PROJ. MGR.	DATE
1" = N/A	PROJ. MGR.	09/06/24
1" = N/A	LEAD ENGR.	

HORIZONTAL:

HORIZONTAL	FIELD MGR.	DATE
1" = N/A	FIELD MGR.	09/06/24
1" = N/A	RECOMMENDED	

VERTICAL:

VERTICAL	DESIGN MANAGER	DATE
1" = N/A <td>DESIGN MANAGER<td>09/06/24</td></td>	DESIGN MANAGER <td>09/06/24</td>	09/06/24
1" = N/A <td>RECOMMENDED</td> <td></td>	RECOMMENDED	

FILE:

FILE	DRAWING	DATE
1" = N/A	DRAWING	09/06/24
1" = N/A	RECOMMENDED	

ATLAS PAGE NO:

ATLAS PAGE NO	DRAWING	DATE
1" = N/A	DRAWING	09/06/24
1" = N/A	RECOMMENDED	

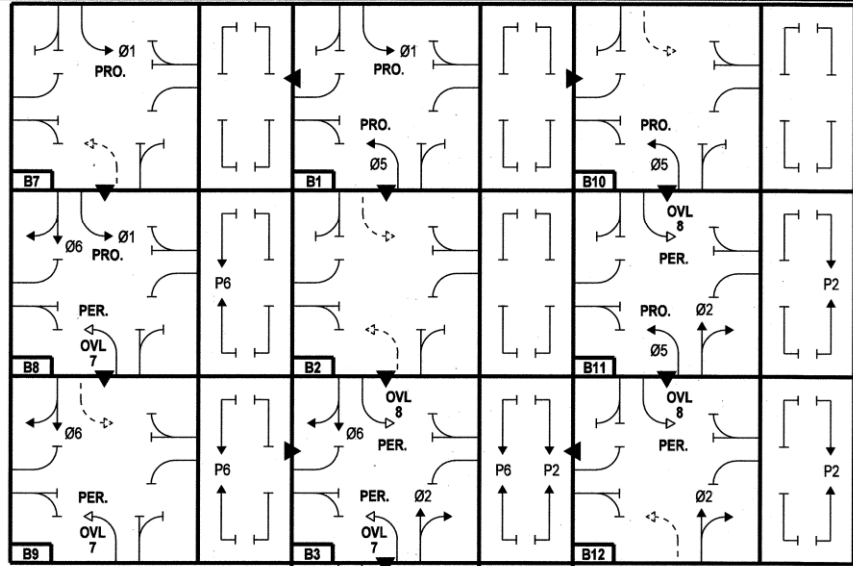
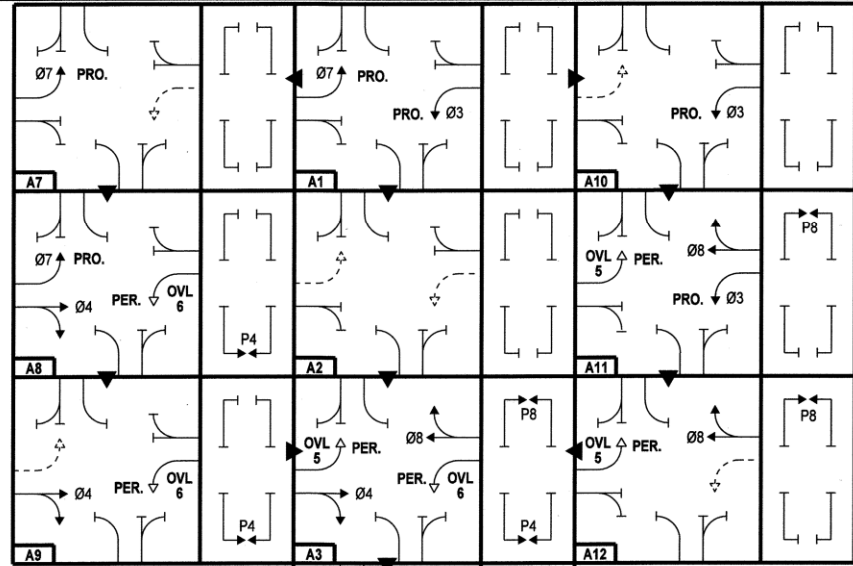
SHEET 61 OF 77 SHEETS

NOTE:
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING
INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE
SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25
9-6-24
DATE
Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecus.com

PHASING DIAGRAM

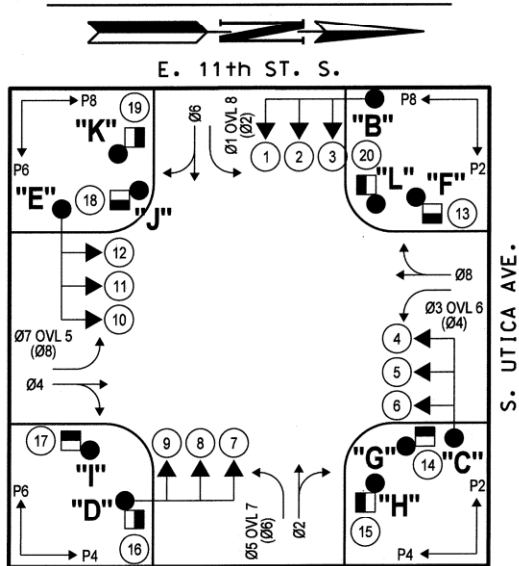
PHASE "A"	PHASE "B"
S. UTICA AVE.	E. 11th ST. S.



PER. = PERMISSIVE
PRO. = PROTECTIVE
— = RED
--- = YELLOW
-> = FLASHING YELLOW
-> = GREEN

SEQUENCE CHART															
DIRECTION	BLOCK NO.	PHASE													
		Ø5 OVL 7	Ø2	Ø7 OVL 5	Ø4	Ø1 OVL 8	Ø6	Ø3 OVL 6	Ø8	P2	P4	P6	P8		
		SIGNAL HEAD NO.													
		1	2,3	4	5,6	7	8,9	10	11,12	13,14	15,16	17,18	19,20		
Ø3, Ø7 ROW	A1	←R	R	←G	R	←R	R	←G	R	DW	DW	DW	DW		
Ø3, Ø7 CL	A2	←R	R	←Y	R	←R	R	←Y	R	DW	DW	DW	DW		
Ø4, Ø8, OVL 5, OVL 6, P4, P8 ROW	A3	←R	R	←F	G	←R	R	←F	G	DW	W	DW	W		
Ø4, Ø8, OVL 5, OVL 6 ROW & P4, P8 CL	A4	←R	R	←F	G	←R	R	←F	G	DW	FDW	DW	FDW		
Ø4, Ø8, OVL 5, OVL 6 CL	A5	←R	R	←Y	Y	←R	R	←Y	Y	DW	DW	DW	DW		
ALL RED	A6	←R	R	←R	R	←R	R	←R	R	DW	DW	DW	DW		
Ø7 ROW & Ø3 CL	A7	←R	R	←G	R	←R	R	←Y	R	DW	DW	DW	DW		
Ø4, Ø7, OVL 6, P4 ROW	A8	←R	R	←G	G	←R	R	←F	R	DW	W	DW	DW		
Ø4, OVL 6, P4 ROW & Ø7 CL	A9	←R	R	←Y	G	←R	R	←F	R	DW	W	DW	DW		
Ø3 ROW & Ø7 CL	A10	←R	R	←Y	R	←R	R	←G	R	DW	DW	DW	DW		
Ø3, Ø8, OVL 5, P8 ROW	A11	←R	R	←F	R	←R	R	←G	G	DW	DW	DW	W		
Ø8, OVL 5, P8 ROW & Ø3 CL	A12	←R	R	←F	R	←R	R	←Y	G	DW	DW	DW	W		
Ø1, Ø5 ROW	B1	←G	R	←R	R	←G	R	←R	R	DW	DW	DW	DW		
Ø1, Ø5 CL	B2	←Y	R	←R	R	←Y	R	←R	R	DW	DW	DW	DW		
Ø2, Ø6, OVL 7, OVL 8, P2, P6 ROW	B3	←F	G	←R	R	←F	G	←R	R	W	DW	W	DW		
Ø2, Ø6, OVL 7, OVL 8 ROW & P2, P6 CL	B4	←F	G	←R	R	←F	G	←R	R	FDW	DW	FDW	DW		
Ø2, Ø6, OVL 7, OVL 8 CL	B5	←Y	Y	←R	R	←Y	Y	←R	R	DW	DW	DW	DW		
ALL RED	B6	←R	R	←R	R	←R	R	←R	R	DW	DW	DW	DW		
Ø1 ROW & Ø5 CL	B7	←Y	R	←R	R	←G	R	←R	R	DW	DW	DW	DW		
Ø1, Ø6, OVL 7, P6 ROW	B8	←F	R	←R	R	←G	G	←R	R	DW	DW	W	DW		
Ø6, OVL 7, P6 ROW & Ø1 CL	B9	←F	R	←R	R	←Y	G	←R	R	DW	DW	W	DW		
Ø5 ROW & Ø1 CL	B10	←G	R	←R	R	←Y	R	←R	R	DW	DW	DW	DW		
Ø2, Ø5, OVL 8, P2 ROW	B11	←G	G	←R	R	←F	R	←R	R	W	DW	DW	DW		
Ø2, OVL 8, P2 ROW & Ø5 CL	B12	←Y	G	←R	R	←F	R	←R	R	W	DW	DW	DW		
FLASHING OPERATION	-	←FR	FR	←FR	FR	←FR	FR	←FR	FR	-	-	-	-		

INTERSECTION
PHASING & SIGNAL HEAD NO.'S



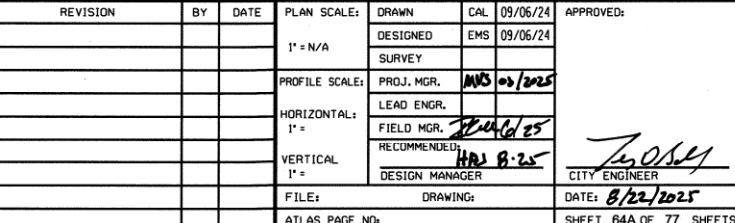
TO: A1, A8, A11, B1, B3, B8 OR B11

TO: B1, B8, B11, A1, A3, A8 OR A11

PROJECT NO. 144017 w and ax	
SIGNAL DETAIL (1 OF 2)	
E. 11th ST. S. & S. UTICA AVE.	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY:	TEC TRAFFIC ENGINEERING CONSULTANTS 601 S. 8TH AVE., STE 100 TULSA, OK 74133 PHONE: 918-481-3464 FAX: 918-481-3163
REVISION	BY DATE
PLAN SCALE:	DRAWN CAL 09/06/24
1" = NA	DESIGNED EMS 09/06/24
PROFILE SCALE:	SURVEY
HORIZONTAL:	PROJ. MGR.
1" = NA	LEAD ENGR. HBS 1/25
VERTICAL:	FIELD MGR. HBS 6/25
1" = NA	RECOMMENDED: HBS 8-25
FILE:	DESIGN MANAGER
ATLAS PAGE NO:	CITY ENGINEER
	DATE: 8/22/2025
	SHEET 63 OF 77 SHEETS

ESTHER M. SHAW-SMITH, P.E. # 23711
C.A. # 1160, RENEWAL 06-30-25
9-6-24
DATE
Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman, OK 73069
Ph: 405-720-7721, Web: www.tecusa.com







**MATCH LINE STA. 26+50
SEE SHEET 67**

LEGEND

-  TYPE III BARRICADE
 CONSTRUCTION SIGN
 DRUMS
 CONE CHANNELIZER
 CONSTRUCTION AREA
 TRAFFIC DIRECTION

NOTES

- 
SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.**
- CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.**

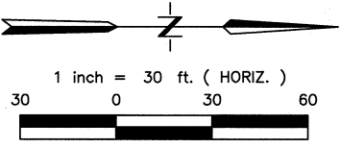
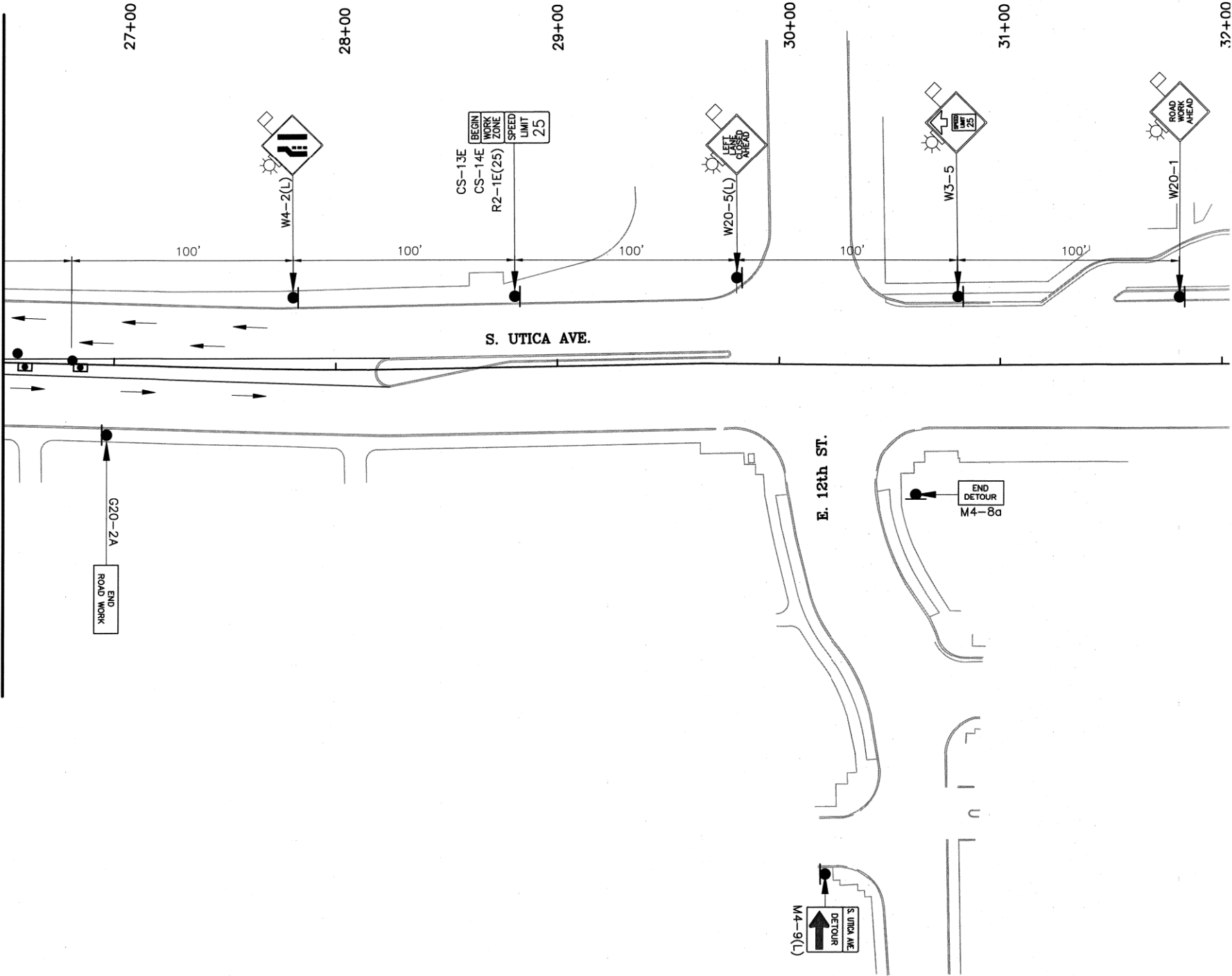


9/12/2024

TRAFFIC CONTROL PHASE I (2 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9558	
PLAN SCALE:	DRAWN BY:	CGD	7/24
1"=30'	DESIGNED BY:	DEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	<i>11/16/2004</i>	
	LEAD ENGR.	<i>5/16</i>	
HORIZONTAL:	FIELD MGR.	<i>6/10</i>	
VERTICAL:	RECOMMENDED:	<i>HAAS 8-25</i>	
	DESIGN MANAGER		CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 66 OF 77 SHEETS	

[illegible]

MATCH LINE STA. 26+50
SEE SHEET 66



LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- DRUMS
- CONE CHANNELIZER
- CONSTRUCTION AREA
- TRAFFIC DIRECTION

NOTES:

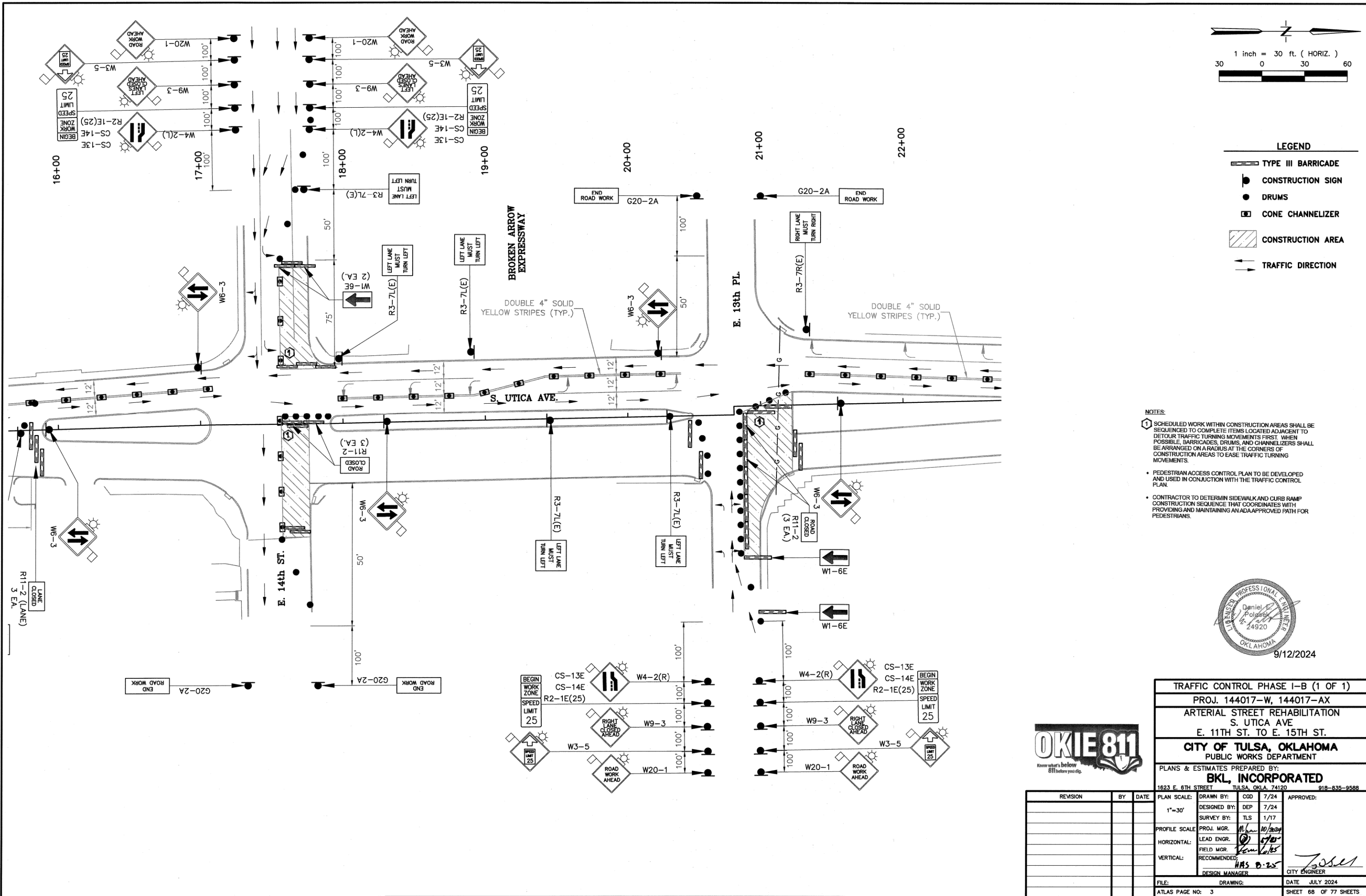
- SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
- CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.

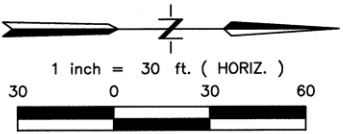


9/12/2024



TRAFFIC CONTROL PHASE I (3 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	[Signature]
1"=30'	DESIGNED BY:	DEP 7/24	
	SURVEY BY:	TLS 1/17	
	PROFILE SCALE:	PROJ. MGR. [Signature] 10/2024	
	HORIZONTAL:	LEAD ENGR. [Signature] 5/25	[Signature]
	VERTICAL:	FIELD MGR. [Signature] 12/25	
		RECOMMENDED: HAS 8-25	[Signature]
		DESIGN MANAGER	
FILE:	DRAWING:	DATE	JULY 2024
ATLAS PAGE NO: 3		SHEET	67 OF 77 SHEETS





- ### LEGEND
- | | |
|---|--------------------|
|  | TYPE III BARRICADE |
|  | CONSTRUCTION SIGN |
|  | DRUMS |
|  | CONE CHANNELIZER |
|  | CONSTRUCTION AREA |
|  | TRAFFIC DIRECTION |

1 SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.

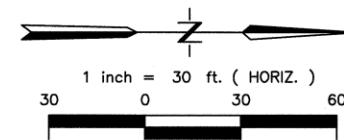
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
- CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



9/12/2024

TRAFFIC CONTROL PHASE II (2 OF 2)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
1"=30'	DESIGNED BY:	CEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	W. L. H. 10/20/24	
HORIZONTAL:	LEAD ENGR.	W. L. H. 5/15/24	
VERTICAL:	FIELD MGR.	W. L. H. 6/15/24	
	RECOMMENDED:	W. L. H. 8/25/24	
	DESIGN MANAGER		
			APPROVED:
			CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 70 OF 77 SHEETS	





**MATCH LINE STA. 27+50
SEE SHEET 72**

LEGEND

-  TYPE III BARRICADE
 CONSTRUCTION SIGN
 DRUMS
 CONE CHANNELIZER
 CONSTRUCTION AREA
 TRAFFIC DIRECTION

NOTES

- 1. SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
- CONTRACTOR TO DETERMINE SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROJECT AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



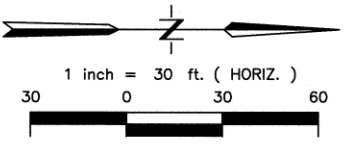
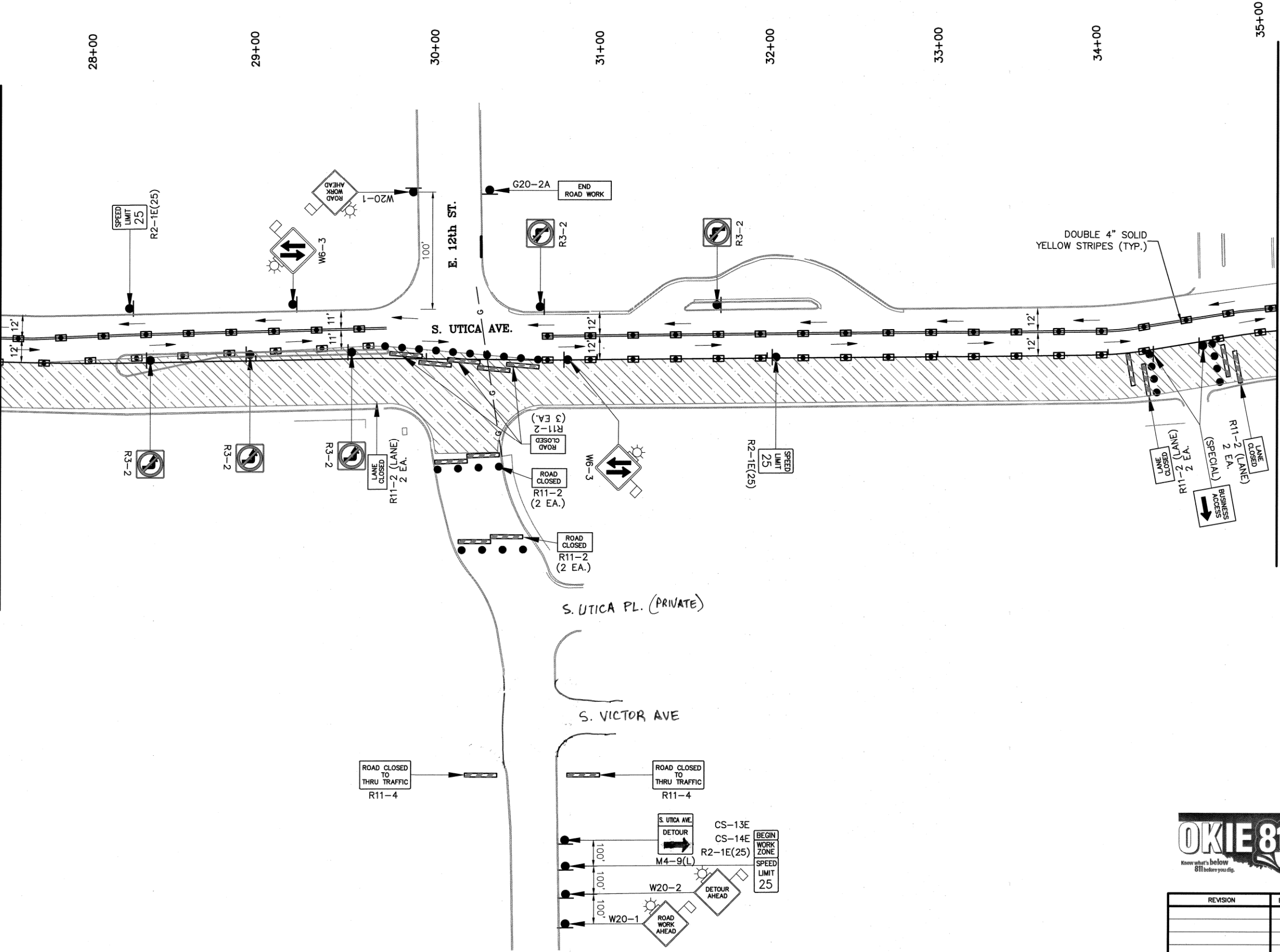
9/12/2024



TRAFFIC CONTROL PHASE III (1 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
	DESIGNED BY:	DEP	7/24
1"=30'	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	<i>M. P.</i>	10/2004
	LEAD ENGR.	<i>Q</i>	5/25
HORIZONTAL:	FIELD MGR.	<i>Q</i>	6/05
VERTICAL:	RECOMMENDED:	<i>hrs 8-25</i>	
	DESIGN MANAGER		
			CITY ENGINEER
FILE:	DRAWING:	DATE JULY 2024	
ATLAS PAGE NO: 3		SHEET 71 OF 77 SHEETS	

X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-TC03.dwg, 240813 - 2:28 PM, DEP

MATCH LINE STA. 27+50
SEE SHEET 71



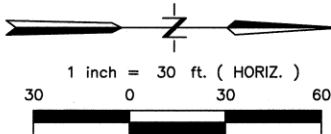
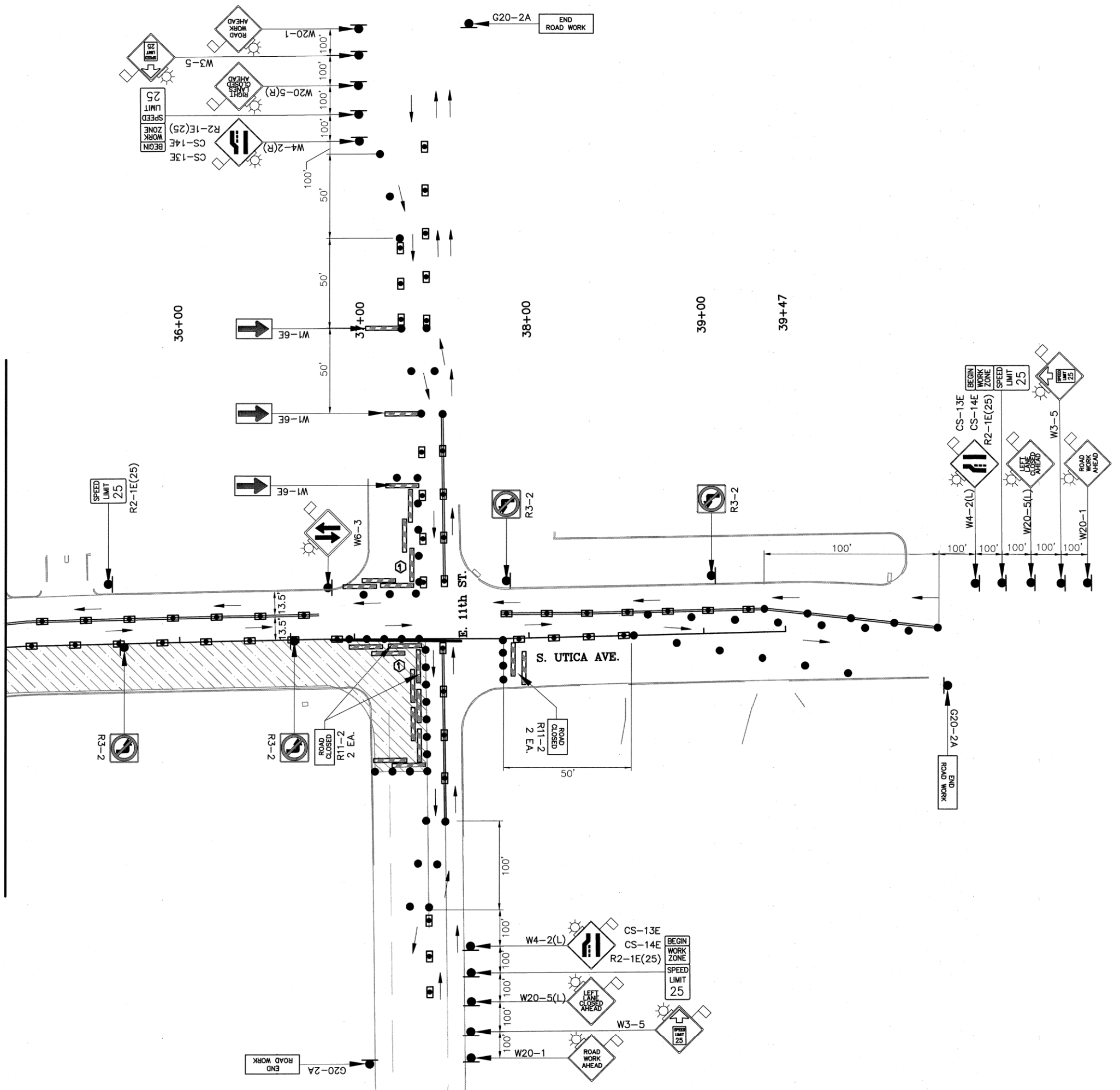
- LEGEND**
- TYPE III BARRICADE
 - CONSTRUCTION SIGN
 - DRUMS
 - CONE CHANNELIZER
 - CONSTRUCTION AREA
 - TRAFFIC DIRECTION

- NOTES:**
- SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
 - PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
 - CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



TRAFFIC CONTROL PHASE III (2 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	
DESIGNED BY:	DEP 7/24		
SURVEY BY:	TLS 1/17		
PROFILE SCALE:	PROJ. MGR.	M. Brown 10/20/24	
HORIZONTAL:	LEAD ENGR.	D. Pollock 5/25/24	
VERTICAL:	FIELD MGR.	D. Pollock 6/25/24	
	RECOMMENDED:	HAS B-25	
	DESIGN MANAGER		
FILE:	DRAWING:	DATE	JULY 2024
ATLAS PAGE NO:	3	SHEET	72 OF 77 SHEETS

MATCH LINE STA. 35+00
SEE SHEET 72



LEGEND

- TYPE III BARRICADE
- CONSTRUCTION SIGN
- DRUMS
- CONE CHANNELIZER
- CONSTRUCTION AREA
- TRAFFIC DIRECTION

NOTES:

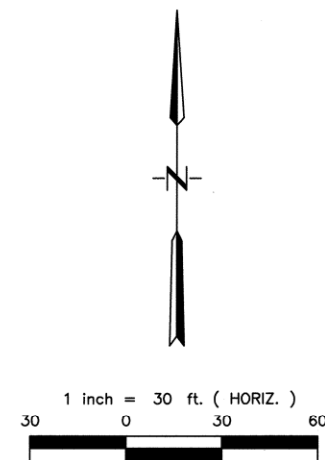
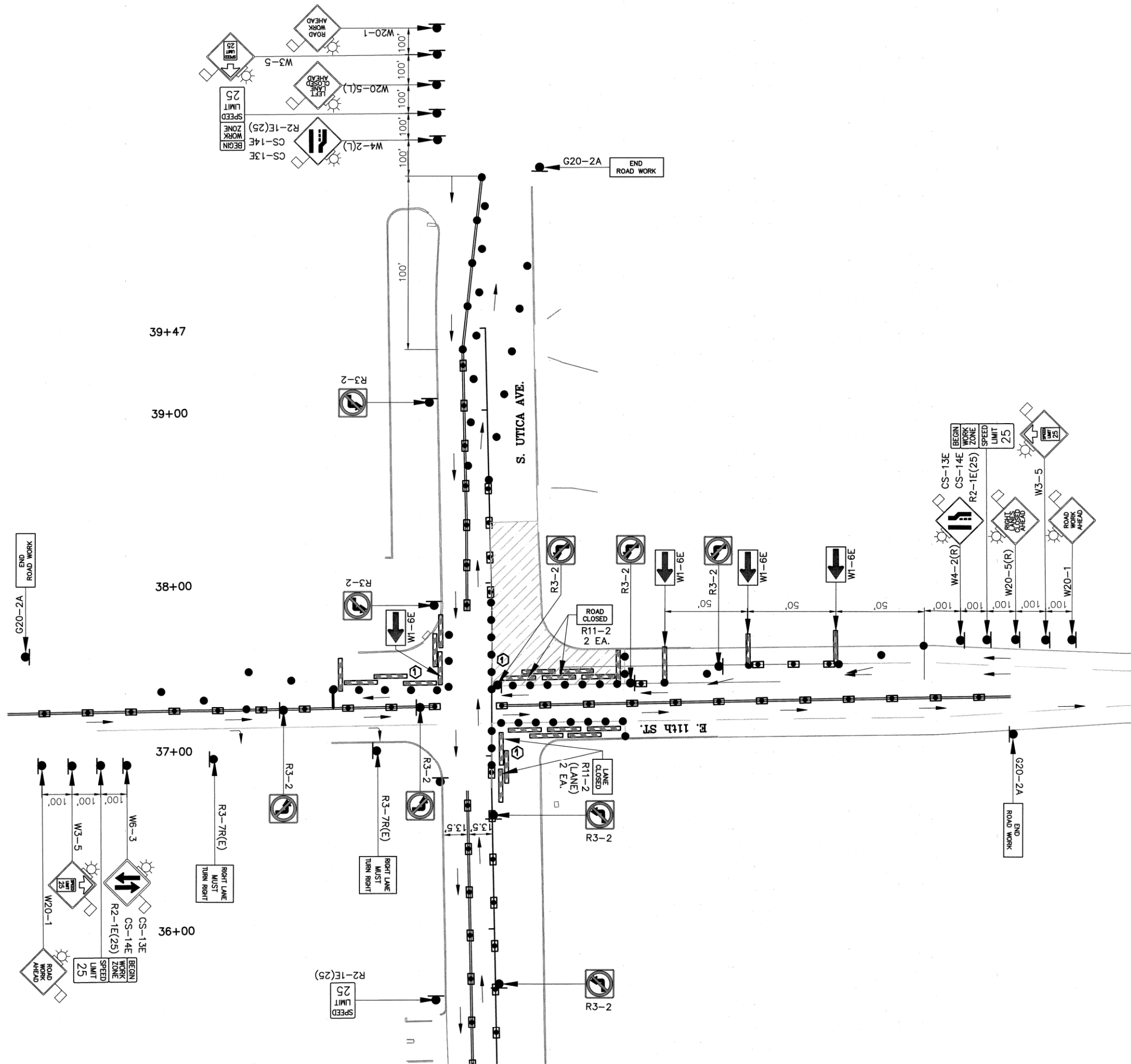
- SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
- CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



9/12/2024



TRAFFIC CONTROL PHASE III (3 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
PLAN SCALE:	DRAWN BY:	CGD	7/24
DESIGNED BY:	DEP	7/24	APPROVED:
SURVEY BY:	TLS	1/17	
PROFILE SCALE:	PROJ. MGR.	M. B. 10/20/24	
HORIZONTAL:	LEAD ENGR.	7/24	
VERTICAL:	FIELD MGR.	7/24	
	RECOMMENDED:	7/24	
	DESIGN MANAGER	7/24	
FILE:	DRAWING:	DATE	JULY 2024
ATLAS PAGE NO: 3			SHEET 73 OF 77 SHEETS



LEGEND

-  TYPE III BARRICADE
 CONSTRUCTION SIGN
 DRUMS
 CONE CHANNELIZER
 CONSTRUCTION AREA
 TRAFFIC DIRECTION

NOTES:

- 1 SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO MOTOR VEHICLE TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
- CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA-APPROVED PATH FOR PEDESTRIANS.

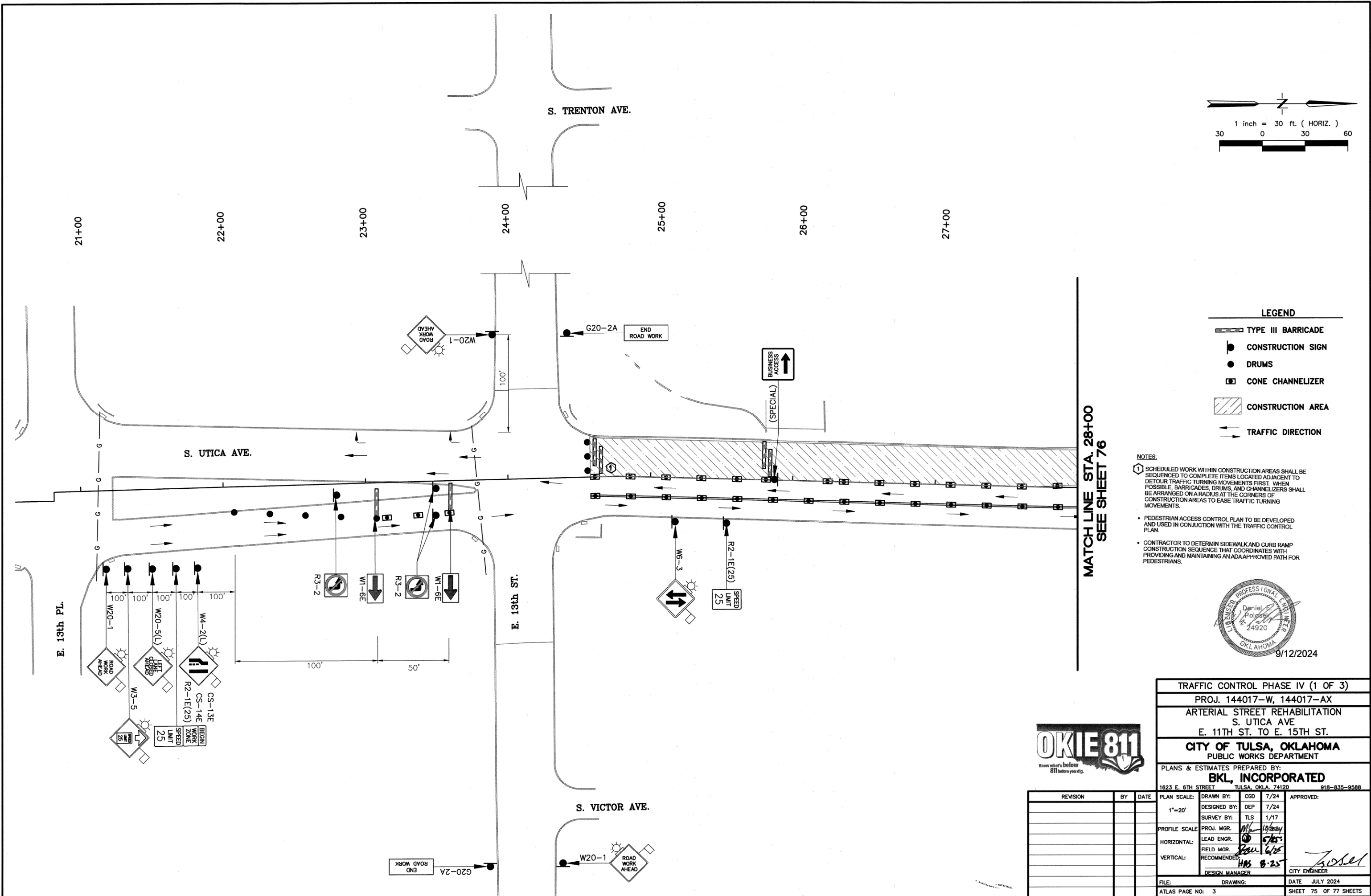


9/12/2024

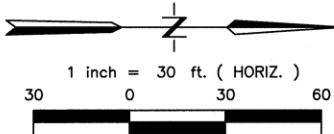
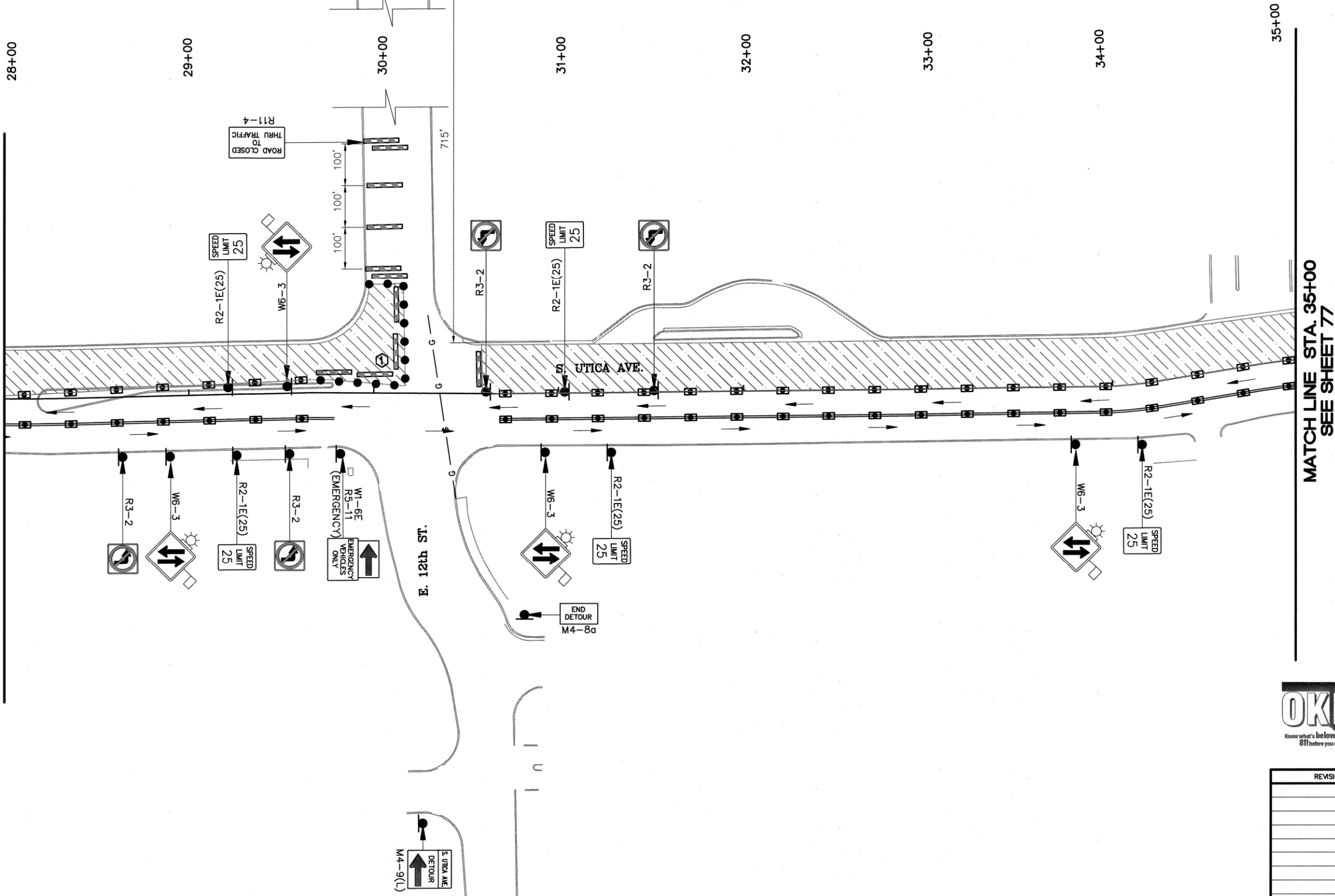
TRAFFIC CONTROL PHASE III B (1 of 1)			
PROJ. 144017-W, 144017-AX ARTERIAL STREET REHABILITATION S. UTICA AVE E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED			
1623 E. 6TH STREET		TULSA, OKLA. 74120	
		918-835-9588	
PLAN SCALE:	DRAWN BY:	CGD	7/24
1"=30'	DESIGNED BY:	DEP	7/24
	SURVEY BY:	TLS	1/17
PROFILE SCALE	PROJ. MGR.	<i>MB</i>	10/2004
HORIZONTAL:	LEAD ENGR.	<i>Q</i>	5/8
	FIELD MGR.	<i>Tom</i>	6/65
VERTICAL:	RECOMMENDED:	<i>HAS</i>	8-25
	DESIGN MANAGER		
FILE:	DRAWING:	DATE	JULY 2004
ATLAS PAGE NO: 3		SHEET	74 OF 77 SHEETS



X:\Projects\705-COT Utica 11th to 15th, 11th St. Intersection\DWG\Sheets\705-TC04.dwg, 240813 - 2:29 PM, DEP

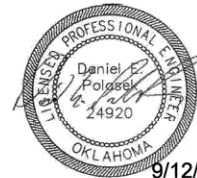


MATCH LINE STA. 28+00
SEE SHEET 75

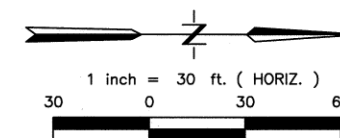


- LEGEND**
- TYPE III BARRICADE
 - CONSTRUCTION SIGN
 - DRUMS
 - CONE CHANNELIZER
 - CONSTRUCTION AREA
 - TRAFFIC DIRECTION

- NOTES:**
- SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO DETOUR TRAFFIC TURNING MOVEMENTS FIRST. WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
 - PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
 - CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PROVIDING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



TRAFFIC CONTROL PHASE IV (2 OF 3)			
PROJ. 144017-W, 144017-AX			
ARTERIAL STREET REHABILITATION			
S. UTICA AVE			
E. 11TH ST. TO E. 15TH ST.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS & ESTIMATES PREPARED BY:			
BKL, INCORPORATED			
1623 E. 6TH STREET TULSA, OKLA. 74120 918-835-9588			
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN BY:	CGD 7/24	CITY ENGINEER
1"=20'	DESIGNED BY:	DEP 7/24	
PROFILE SCALE:	SURVEY BY:	TLS 1/17	
HORIZONTAL:	PROJ. MGR.	W. L. 10/20/24	
VERTICAL:	LEAD ENGR.	W. L. 10/20/24	
	FIELD MGR.	W. L. 10/20/24	DESIGN MANAGER
	RECOMMENDED:	W. L. 10/20/24	
FILE:	DRAWING:	DATE	JULY 2024
ATLAS PAGE NO:	3	SHEET	76 OF 77 SHEETS

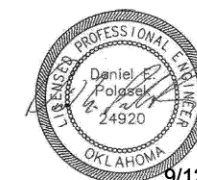


LEGEND

-  TYPE III BARRICADE
 CONSTRUCTION SIGN
 DRUMS
 CONE CHANNELIZER
 CONSTRUCTION AREA
 TRAFFIC DIRECTION

NOTES

- 1** SCHEDULED WORK WITHIN CONSTRUCTION AREAS SHALL BE SEQUENCED TO COMPLETE ITEMS LOCATED ADJACENT TO TRAFFIC TURNING MOVEMENTS FIRST WHEN POSSIBLE, BARRICADES, DRUMS, AND CHANNELIZERS SHALL BE ARRANGED ON A RADIUS AT THE CORNERS OF CONSTRUCTION AREAS TO EASE TRAFFIC TURNING MOVEMENTS.
- PEDESTRIAN ACCESS CONTROL PLAN TO BE DEVELOPED AND USED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN.
 - CONTRACTOR TO DETERMIN SIDEWALK AND CURB RAMP CONSTRUCTION SEQUENCE THAT COORDINATES WITH PREWORKING AND MAINTAINING AN ADA APPROVED PATH FOR PEDESTRIANS.



9/12/2024

TRAFFIC CONTROL PHASE IV (3 OF 3)

PROJ. 144017-W, 144017-AX

ARTERIAL STREET REHABILITATION

S. UTICA AVE

E. 11TH ST. TO E. 15TH ST.

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

BKL, INCORPORATED

1623 E. 6TH STREET TULSA, OKLA. 74120

1623 E. 6TH STREET		TULSA, OKLA. 74120		918-835-9588	
REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	COD 7/24
			1"=20'	DESIGNED BY:	DEP 7/24
				SURVEY BY:	TLS 1/17
			PROFILE SCALE:	PROJ. MGR.	<i>M. [Signature]</i> 10/20/24
			HORIZONTAL:	LEAD ENGR.	<i>[Signature]</i> 5/1/25
			VERTICAL:	FIELD MGR.	<i>[Signature]</i> 6/25
				RECOMMENDED:	<i>[Signature]</i> 8-25
				DESIGN MANAGER	CITY ENGINEER
			FILE:	DRAWING:	DATE JULY 2024
			ATLAS PAGE NO: 3		SHEET 77 OF 77 SHEETS