

EXISTING LEGEND

- Deciduous Tree
- Bench Mark/Vertical Control
- Light Pole
- Power Pole
- Sanitary Sewer Manhole
- Storm Water Sewer Manhole
- Storm Water Drain Area Inlet
- Fire Hydrant
- Water Valve
- Water Meter
- Gas Meter
- Telephone Pedestal
- Fence Types
- Overhead Electric
- Buried Electric
- Buried Telephone
- Gas
- Sanitary Sewer
- Stormwater Sewer
- Waterline
- Fiber Optics
- Property Line
- Right-of-Way
- Section Line

BENCHMARKS

3/8" IRON PIN SET WITH CAP  
 N: 435567.399'  
 E: 2605121.584'  
 ELEV. = 658.58' (NAVD 88)  
 CHISELED "X" FOUND  
 N: 4435557.893'  
 E: 2607688.321'  
 ELEV. = 678.39' (NAVD 88)

DESIGN DATA

DESIGN SPEED = 45 MPH  
 ADT 2024 = 3,975  
 D = = = =  
 T = = = =  
 T3 = = = =  
 20yr ESALES = = = =

UTILITY COORDINATION BOX

COMPANY	CONTACT	OFFICE
CITY OF TULSA	TONY GLYNN	918-595-9245
AEP / PSO	EMERGENCY	888-216-3523
ONG	EMERGENCY	800-644-5463
AT&T	EMERGENCY	800-288-2020
COX COMMUNICATIONS	CUSTOMER SERVICE	918-806-6000
VERIZON	CUSTOMER SERVICE	888-294-6804
WINDSTREAM	CUSTOMER SERVICE	800-347-1991
MITA	CUSTOMER SERVICE	918-830-0024
UTILITY COORDINATION INFORMATION		
TULSA ENGINEERING SERVICES DEPARTMENT		
WATER DESIGN		918-596-9580
WASTEWATER DESIGN		918-596-9564
TRANSPORTATION DESIGN		918-596-9636
TRAFFIC ENGINEERING DESIGN		918-596-9741
STORMWATER DESIGN		918-596-9498

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS AND ASSET MANAGEMENT GUIDELINES GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY C. O. T.

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

ENTIRE PROJECT IS LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF TULSA.



# CONSTRUCTION PLANS FOR ARTERIAL STREET REHABILITATION PINE ST. FROM GARNETT RD TO 129TH E. AVE PROJECT NO. 2036A0045Z & 2036A0059Z TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53 ACCOUNT NO. 2036A0045Z.Streets.ArtRhb.4282.42823122.541106 ACCOUNT NO. 2036A0059Z.Streets.ArtRhb.4282.42823122.541106 CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

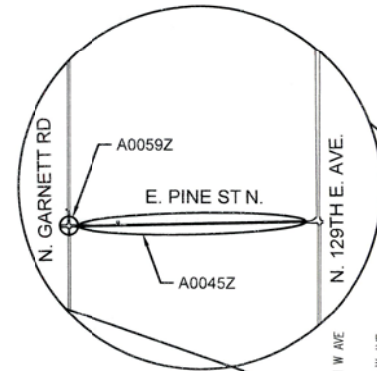
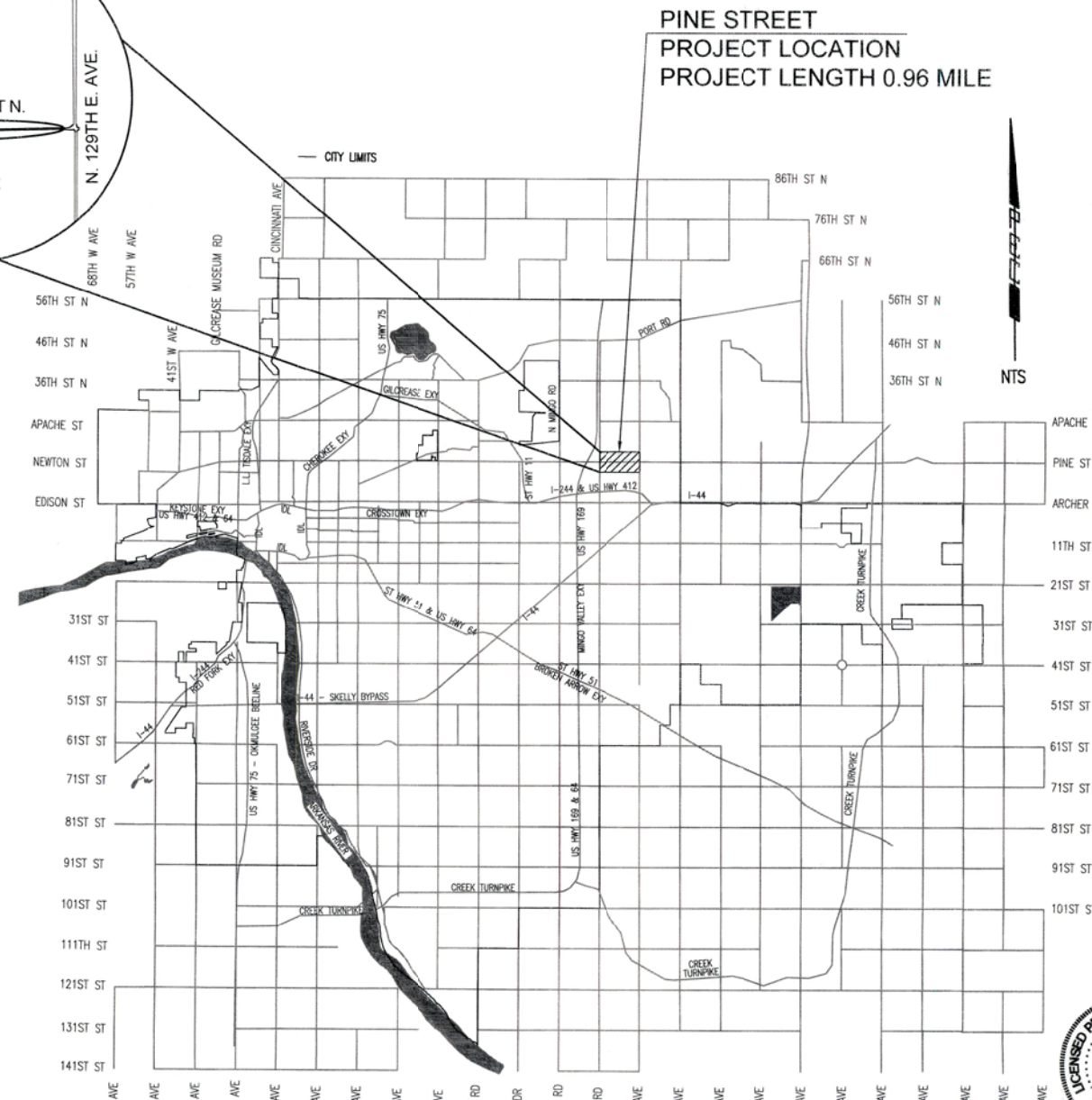
INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	ROADWAY PAY ITEMS & QUANTITIES
3	ROADWAY PAY ITEM NOTES
4	GENERAL CONSTRUCTION NOTES
5	TYPICAL SECTIONS
6	WATERLINE PAY ITEMS AND NOTES
7	WATERLINE CONSTRUCTION NOTES AND SCHEDULES
8	STORM WATER MANAGEMENT PLAN
9	GEOMETRIC LAYOUT
10	WATERLINE PLAN
11-20	PLAN & PROFILE 1, 1a, 2-10
21	INTERSECTION DETAILS
22	JOINT LAYOUT PLAN
23	PHASED DRIVEWAY DETAIL
24	DETOUR MAPS
25-38	TRAFFIC CONTROL & DETOURING PHASES 1-8
37-38	SIGNING & MARKING PLAN 1-2
39	SIGN DETAILS

APPLICABLE STANDARDS

CITY OF TULSA	STD. 628	SIGNAL AND LIGHTING PROJECT CONTRACTOR EXPERIENCE REQUIREMENTS
STD. 102 PROJECT SIGN	STD. 701 CONCRETE DRIVEWAY DETAILS 1 AND 2	
STD. 126 STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE	STD. 713 PAVEMENT REMOVAL AND REPLACEMENT	
STD. 305 BEDDING DETAIL - FLEXIBLE PIPE	STD. 726 ASPHALT PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL, AND COLLECTOR STREETS	
STD. 306 TRENCH DETAIL CONSTRUCTION ADJACENT TO ROADWAY	STD. 730 STANDARD ASPHALT PAVEMENT CUT AND REPAIR	
STD. 309 FIRE HYDRANT	STD. 731 STANDARD CONCRETE PAVEMENT CUT AND REPAIR	
STD. 313 VALVE BOX		
STD. 313A VALVE BOX		
STD. 322 LOCATOR BALL PLACEMENT DETAIL		
STD. 401 MANHOLE GRADE ADJUSTMENT		
STD. 502 STANDARD METER SETTINGS FOR 1" WATER SERVICE		
STD. 502A STANDARD METER SETTINGS FOR 1" WATER SERVICE		
STD. 505 METER CAN WITH RIM AND LID FOR 1/2", 3/4", AND 1" WATER METER CAN INSTALLATION		
STD. 608A STREET NAME SIGNS		
STD. 608B TRAFFIC SIGNS		
STD. 626 TRAFFIC SIGNAL CONSTRUCTION AND OPERATION		
STD. 627 PRE-QUALIFICATION FOR TRAFFIC OPERATIONS MATERIALS		
	ODOT	
	PSE-2-1 PAVEMENT SAFETY EDGE	
	TFL-0 TEMPORARY FIBER LOG APPLICATIONS	
	SMD-4-3 CAST-IN-PLACE STANDARD MEDIAN DRAIN	
	DC-4-2 PAVED DITCHES AND FLUMES	
	TCS1-1-01 ODOT TRAFFIC CONTROL STANDARDS TO	
	TCS21-1-01	
	SKT-1-00 GUARDRAIL END TREATMENT (SKT-SP-MGS EXTRUDER TERMINAL)(31" SYSTEM)	
	GHW1-1-00 GUARDRAIL AND HARDWARE (1 OF 2)(31" SYSTEM)	
	GHW2-1-00 GUARDRAIL AND HARDWARE (2 OF 2)(31" SYSTEM)	

IN ACCORDANCE WITH ODOT SECTION 105.14, THE COT 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. THE PLANS ARE SET UP WITH THE EXPECTATION OF PERFORMING MILLING OPERATIONS PRIOR TO PATCHING AND CONCRETE WORK. 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 UNDAUNAGED AREA. CURRENT COT CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECT.



PLANS PREPARED BY



PEC PROJ. NO. 200961-000  
 C.O.A. 1046 PE/LS EXPIRES: JUNE 30, 2027

APPROVED BY:

*T.O. Bell*

4/17/2026

CITY ENGINEER

DATE

WATER AND SEWER DIRECTOR:

*[Signature]*

3-27-2026

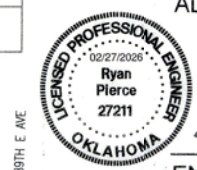
DATE

ADVERTISEMENT DATE:

*[Signature]*

04.27.26

DATE



ENGINEER'S CERTIFICATION  
 RYAN PIERCE, P.E.  
 OK P.E. NO. 27211

2/27/2026  
 DATE

SAVED 2/18/2026 1:45:12 PM BY RYAN PIERCE  
 PLOTTED 2/19/2026 3:05:26 PM BY RYAN PIERCE  
 U:\WCHITA-CIVIL\2022\20961\000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-TITLE SHEET.DWG

COT PROJ. NO. 2036A0045Z & 2036A0059Z. ARTERIAL STREET REHABILITATION AND WATERLINE REPLACEMENT FOR PINE ST. FROM GARNETT RD TO 129TH E. AVE

DRAWING SUMMARY  
 TRANSMISSION DRAWINGS/PLANS/20961-1000-PAY QUANTITIES SUMMARY.DWG  
 PLOTTED 2/17/2026 1:24:45 PM BY RYAN PIERCE  
 U:\WCHTA-CIVIL\2022\20961\1000\MUNI-TRANS\DRAWINGS/PLANS/20961-1000-PAY QUANTITIES SUMMARY.DWG

SCHEDULE OF PAY QUANTITIES (ROADWAY)					
ITEM	SPEC. NO.	ITEM	NOTES	UNIT	QTY
1	201(A)	CLEARING AND GRUBBING	E-1, 2	AC	1
2	202(A)	UNCLASSIFIED EXCAVATION	E-3, 4, R-1	CY	2,210
3	220	SWPPP DOCUMENTATION AND MANAGEMENT	E-2, 6, 7, 8, 9	LSUM	1
4	229	DITCH LINER PROTECTION		LF	90
5	SPECIAL	GRADE AND LEVEL SOD SHOULDER	SP-3	LF	1,883
6	230(A)	SOLID SLAB SODDING	E-10, 11, G-10	SY	2,255
7	303(A)	AGGREGATE BASE TYPE A	S-1, 2	CY	1,282
8	310(B)	SUBGRADE, METHOD B		SY	3,610
9	325	SEPARATOR FABRIC	S-3	SY	5,387
10	409	FABRIC REINFORCEMENT	S-4	SY	14,219
11	411(B)	SUPERPAVE, TYPE S3 (PG70-28 OK)	S-5, 6, 7, 8, 23	TON	447
12	411(C)	SUPERPAVE, TYPE S4 (PG 70-28 OK)(INSOLUBLE)	S-5, 6, 7, 8, 23	TON	1,692
13	411(E)	SUPERPAVE, TYPE S6 (PG 70-28 OK)(INSOLUBLE)	S-5, 6, 7, 8, 23	TON	846
14	412	COLD MILL PAVEMENT	S-9, 22, 23	SY	14,219
15	414(B)	10" DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	S-10, 11	SY	3,491
16	414(G)	P.C. CONCRETE FOR PAVEMENT	S-10, 11, 12, 13	CY	970
17	509(D)	CLASS C CONCRETE	S-11, 12, 13	CY	5
18	601(B)	TYPE I PLAIN RIPRAP (12") WITH FILTER BLANKET	SP-1	TON	11
19	601(F)	TYPE IV GROUTED RIPRAP (12")		SY	7
20	609(B)	COMBINED CURB AND GUTTER (6")(BARRIER)	S-12, 13	LF	177
21	SPECIAL	18"x11" CONCRETE RIBBON CURB	S-12, 13	LF	265
22	610(G)	ASPHALT DRIVEWAY	S-5, 6, 7, 8, 23	TON	68
23	611(G)	INLET (SMD-TYPE 1)	D-2, 3, 8, 9	EA	1
24	613(EE)	18" CORRUGATED POLYPROPYLENE PIPE	D-8, 12, 13	LF	90
25	613(EE)	30" CORRUGATED POLYPROPYLENE PIPE	D-8, 12, 13	LF	109
26	613(L)	18" PREFAB. CULVERT END SEC., ROUND	D-8, 12, 13	EA	1
27	613(L)	30" PREFAB. CULVERT END SEC., ROUND	D-8, 12, 13	EA	2
28	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	R-1, 2, 3, 4, 5	LSUM	1
29	619(B)	REMOVAL OF EXISTING PIPE	R-1, 2, 3, 4, 5	LF	149
30	619(B)	REMOVAL OF ASPHALT PAVEMENT	R-1, 2, 5, 6	SY	4,221
31	619(B)	REMOVAL OF ASPHALT DRIVEWAY	R-1, 2, 5, 6	SY	139
32	623(G)	GUARDRAIL END TREATMENT GET)		EA	2
33	641	MOBILIZATION	G-2	EA	1
34	642(B)	CONSTRUCTION STAKING LEVEL II	G-3, 4	EA	1
35	805(A)	REMOVAL OF TRAFFIC ITEMS	T-1	EA	1
36	855(A)	TRAFFIC STRIPE(PLASTIC)(4" WIDE)	T-3	LF	22,782
37	855(A)	TRAFFIC STRIPE(PLASTIC)(8" WIDE)	T-3	LF	80
38	855(A)	TRAFFIC STRIPE(PLASTIC)(24" WIDE)	T-3	LF	108
39	855(B)	TRAFFIC STRIPE(PLASTIC)(ARROWS)	T-3	EA	9
40	880(B)	SIGNS, 0.00 TO 6.25 SF	T-2, 3, 4, 5	SD	10,220
41	880(B)	SIGNS, 6.26 TO 15.99 SF	T-2, 3, 4, 5	SD	2,380
42	880(B)	SIGNS, 16.00+ SF	T-2, 3, 4, 5	SD	2,240
43	880(C)	BARRICADES TYPE III	T-2, 3, 4, 5	SD	2,100
44	880(E)	WARNING LIGHT, TYPE 'A'	T-5	SD	4,200
45	880(F)	DRUMS	T-4	SD	5,460
46	880(G)	TUBE CHANNELIZERS	T-4	SD	17,360
47	SPECIAL	PATCH TYPE I (AC, PCC, APC)	S-21, G-1	CY	25
48	SPECIAL	OWNER ALLOWANCE	G-11	ALLOW	20,000
49	SPECIAL	PROJECT SIGN (CITY OF TULSA)	T-7	EA	2
50	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	G-5, 6, 7, 8, 9, 10	EA	1
51	COT 202	QUICK SET FLOWABLE FILL	G-1, D-8	CY	2
52	COT 334	CONSTRUCTION AS-BUILT		LS	1
53	COT 335	CONTRACTOR QUALITY CONTROL		LS	1
54	COT 608	SHEET ALUMINUM SIGNS	T-2	SF	23
55	COT 608	SPECIAL SIGNS	T-2	SF	18
56	COT 608	1-3/4" SQUARE TUBE POST		LF	54
57	COT 608	2" SQUARE TUBE POST		LF	15
58	COT 626	TRAFFIC SIGNAL MAINTENANCE	SP-2	HOURL	8
59	COT 626	SIGNAL MODIFICATIONS FOR LANE CLOSERS PER SIGNALIZED INTERSECTION	SP-2	EA	1

NOTE:  
 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.

**EARTHWORK/EROSION CONTROL / SITE PREPARATION (E1 - E11)**

- E-1: ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
- E-2: ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID.
- E-3: THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL UNCLASSIFIED REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY TO VERIFY ANY ADDITIONAL QUANTITIES.
- E-4: UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED.
- E-5: NOT USED

- E-6: 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.
- E-7: EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:  
 A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;  
 B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;  
 C) FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER;  
 D) WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN.

- ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.
- E-8: PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.
- E-9: INCLUDES 9 EACH SILT DIKE FILTERS AND 150 LF OF SILT FENCE.
- E-10: ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE OF LKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSED AREAS BEYOND THE ABOVE STATED LIMITS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESEED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.

- E-11: COST OF WATERING AND FERTILIZING SHALL BE INCLUDED. FERTILIZERS SHALL BE 10-20-10 AND SHALL BE APPLIED AT THE RATE OF 1.5 LBS PER 10 SQ YDS. FERTILIZER SHALL BE APPLIED PER SECTION 230.04H OF ODOT STANDARD SPECIFICATIONS. WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.

**SURFACING / STRUCTURES (S1 - S23)**

- S-1: TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.
- S-2: INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.
- S-3: SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR.
- S-4: FABRIC REINFORCEMENT SHALL BE USED ON OVERLAY AREAS. THE COST OF BITUMINOUS BINDER FOR FABRIC REINFORCEMENT SHALL BE INCLUDED IN THE UNIT COST OF THIS PAY ITEM. THE BITUMINOUS BINDER SHALL MEET ODOT STANDARD SPECIFICATIONS AND THE RECOMMENDATIONS OF THE FABRIC REINFORCEMENT MANUFACTURER.
- S-5: THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS, SHALL BE INCLUDED IN ASPHALT CONCRETE.
- S-6: ESTIMATED AT 112 LBS PER SQ YD PER 1 INCH THICK.
- S-7: ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF 92%-97% WILL RESULT IN REJECTION OF WORK.
- S-8: A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY.

S-8 (TABLE):

NOTE S-8 (50) TABLE			
BINDER <sup>2</sup> GRADE	MESALS	ADT <sup>1</sup>	NOTES
PG 64-22 OK	< 3	< 5,000	USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW PCC, AND TEMPORARY CONSTRUCTION.
PG 70-28 OK	< 10	< 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 OK	>= 10	>= 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 E	—	—	CONTACT ODOT MATERIALS DIVISION FOR RECOMMENDED USE.

<sup>1</sup>USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALS BASED ON 20 YEARS.  
<sup>2</sup>PG 70-28 OK OR PG 76-28 OK MAY BE DESIRABLE IN HIGH VOLUME AREAS WHERE SLOW, STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF-RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AS THE MAINLINE.

- S-9: THIS ITEM INCLUDES ALL COSTS ASSOCIATED WITH COLD MILLING AND TO PROVIDE BUTT JOINTS AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COLD MILLING BEYOND THE AVERAGE DEPTH SHOWN ON THE TYPICAL SECTIONS.
- S-10: FOR P.C. CONCRETE TYPICAL SECTIONS, CONTRACTOR MAY SUBSTITUTE INTEGRAL CURB FOR CURB & GUTTER, AND VICE VERSA, ONLY WITH APPROVAL OF THE ENGINEER, WITH NO ADJUSTMENT MADE TO UNIT PRICE OR QUANTITY.
- S-11: CONCRETE PAVEMENT SHALL BE COMPLETE IN PLACE. NO PARTIAL OR FINAL PAYMENT SHALL BE MADE UNTIL PAVEMENT HAS BEEN SAWED AND SEALED. ANY SECTIONS OF PAVEMENT WITH UNAPPROVED DEVIATIONS FROM THE JOINT LAYOUT PROVIDED IN THE PLANS MAY BE REJECTED AT THE DISCRETION OF THE ENGINEER.
- S-12: THE USE OF FLY ASH IN CONCRETE IS PROHIBITED.
- S-13: INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.
- S-14: NOT USED. S-15: NOT USED. S-16: NOT USED. S-17: NOT USED. S-18: NOT USED. S-19: NOT USED. S-20: NOT USED.

- S-21: THIS PAY ITEM INCLUDES THE FOLLOWING:  
 A. SAW CUTTING  
 B. REMOVAL OF THE EXISTING CONCRETE AND/OR ASPHALTIC CONCRETE ROADWAY (CY)  
 C. TYPE S3 ASPHALTIC CONCRETE OR PC CONCRETE COMPLETE AND IN PLACE PER DETAIL  
 D. SEALING OF EDGES AND TACK COAT
- DOES NOT INCLUDE THE FOLLOWING:  
 A. UNCLASSIFIED EXCAVATION  
 B. SUBGRADE METHOD B (SY)  
 C. SEPARATOR FABRIC (SY)  
 D. AGGREGATE BASE (TYPE A)  
 E. ASPHALT CONCRETE LEVELING OR SURFACE COURSE

- S-22: REMOVE AC PAVEMENT ON CONCRETE DRIVEWAY APRONS AND GUTTERS DURING EDGE MILLING AND COLD MILLING OPERATIONS.
- S-23: REPLACE AC IN DRIVEWAY GUTTER, AS NEEDED, FOR POSITIVE STORMWATER DRAINAGE AND SMOOTH DRIVEWAY TRANSITIONS.

**REMOVAL / ADJUSTMENT (R1 - R6)**

- R-1: WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- R-2: ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
- R-3: PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK.
- R-4: INCLUDES SAWING NOT INCLUDED IN OTHER ITEMS OF WORK.
- R-5: ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- R-6: SHALL INCLUDE ALL COSTS ASSOCIATED WITH PLUGGING/ PATCHING HOLES IN EXISTING STRUCTURES TO REMAIN.
- R-20: ESTIMATED AT 170 LBS. PER CU. FT.

**GENERAL (G1 - G10)**

- 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: CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST. COST SHALL BE INCLUDED IN THE PRICE BID.

- 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: AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND/OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS.  
CONTACT # : 918-596-2548
- G-8: TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.
- G-9: CONTRACTOR SHALL COORDINATE WITH 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 (D1 - D15)**

- D-1: NOT USED.
- 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 WITH THE RIGHT OF WAY.
- D-4: NOT USED. D-5: NOT USED. D-6: NOT USED. D-7: NOT USED.
- 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: NOT USED. 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: NOT USED. D-15: NOT USED.

**TRAFFIC (T1 - T7)**

- T-1: ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER DOT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- T-2: REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- T-3: ALL PLASTIC PAVEMENT MARKINGS SHALL BE EXTRUDED-APPLIED THERMOPLASTIC (USE ON ASPHALT PAVEMENT). THERMOPLASTIC PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN THE SURFACE TEMPERATURE EXCEEDS 55°F FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION AND MAXIMUM WIND GUSTS ARE BELOW 15 MPH AT THE TIME OF APPLICATION. PRICE BID TO INCLUDE FLEX TABS OR LIKE KIND FOR POST CONSTRUCTION LANE MARKING/SEPARATION. MECHANICALLY APPLIED PREFORMED PLASTIC TAPE ("COLD TAPE") WILL NOT BE ACCEPTED.
- T-4: PAYMENT SHALL BE MADE ON A SIGN-DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE REMOVAL AND REPLACEMENT, AS NEEDED AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE BID.
- T-5: IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- T-6: NOT USED.
- T-7: PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.

**SPECIAL PAY ITEM NOTES**

- SP-1: ESTIMATED AT 170 LBS. PER CU. FT.
- SP-2: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING TRAFFIC SIGNAL IN A PROPER WORKING CONDITION DURING CONSTRUCTION AS DIRECTED BY THE TRAFFIC ENGINEER AND FOR FOLLOWING THE REQUIREMENTS OF COT 626 TRAFFIC SIGNAL CONSTRUCTION AND OPERATION. THE CONTRACTOR SHALL NOT PLACE NEW TRAFFIC SIGNALS INTO OPERATION UNTIL THEY HAVE BEEN PERMITTED, INSPECTED AND APPROVED BY CITY OF TULSA TRAFFIC SIGNAL INSPECTORS, AND THE CITY OF TULSA TRAFFIC OPERATIONS HAS CONTACTED THE UTILITY COMPANY TO SET UP BILLING. TRAFFIC SIGNALS SHALL ONLY BE PUT INTO OPERATION ON TUESDAYS, WEDNESDAYS, AND THURSDAYS. ALL TRAFFIC MATERIALS SHALL MEET THE REQUIREMENTS OF COT 627 PRE-QUALIFICATION FOR TRAFFIC OPERATIONS MATERIALS OR AS DIRECTED BY THE TRAFFIC ENGINEER. CONTRACTORS SHALL MEET THE REQUIREMENTS OF COT 628 SIGNAL AND LIGHTING PROJECT CONTRACTOR EXPERIENCE REQUIREMENTS.
- SP-3: COST TO INCLUDE REMOVAL OF SILT ACCUMULATION AT EDGE OF ASPHALT SHOULDER, AND GRADING SOD SHOULDER TO DRAIN.



ROADWAY PAY ITEMS & QUANTITIES					
PROJECT NO. 2036A0045Z & 2036A0059Z					
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53					
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.					
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT					
PLANS AND ESTIMATES PREPARED BY:	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1504 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-584-9400 www.perc.com				
REVISION	BY	DATE	PLAN SCALE	DRAWN	KRH 01/2024
			1" = NA	DESIGNED	RJP 11/2024
				SURVEY	NJR 07/2023
			PROFILE SCALE:	PROJ. MGR.	ARK 03/2024
				LEAD ENGR.	D 3/26
			HORIZONTAL:	FIELD MGR.	Shi 5/6
				RECOMMENDED:	HAS 3/26
			VERTICAL:	DESIGN MANAGER	POZ
			FILE:	DRAWING:	DATE: 4/17/2026
			ATLAS PAGE NO:	229,230	SHEET 02 OF 36 SHEETS

**SUMMARY OF SURFACING QUANTITIES**

LOCATION	UNCL. EXCAV	DITCH LINER PROTECTION	GRADE AND LEVEL SOD SHOULDER	SLAB SODDING	AGG. BASE TYPE A	SUBGRADE METHOD B	SEPARATO R FABRIC	TACK COAT	FABRIC REINF. (GLASPAVE 50)	SUPERPAVE TYPE S3 (PG 70-28 OK)	SUPERPAVE TYPE S4 (PG 70-28 OK) (INSOLUBLE)	SUPERPAVE TYPE S6 (PG 70-28 OK) (INSOLUBLE)	COLD MILLING PVMT	10" DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	P.C. CONCRETE FOR PAVEMENT	CLASS C CONCRETE	TYPE I PLAIN RIPRAP (12") W/ FILTER BLANKET	TYPE IV GROUTED RIPRAP (12")	COMBINED CURB AND GUTTER (6")(BARRIER)	ASPHALT DRIVEWAY	REMOVAL OF ASPHALT PAVEMENT	REMOVAL OF ASPHALT DRIVEWAY	SAWING PAVEMENT	18"x11" PCC RIBBON CURB
	202(A)	229	SPECIAL	230(A)	303(A)	310(B)	325	407	409(A)	411(B)	411(C)	411(D)	412	414(B)	414(G)	509(D)	601(B)	601(F)	609(B)	610(G)	619(B)	619(B)	619(C)	SPECIAL
	C.Y.	LF	LF	S.Y.	C.Y.	S.Y.	S.Y.	GAL	S.Y.	TON	TON	TON	S.Y.	SY	CY	CY	TON	SY	LF.	TON	S.Y.	S.Y.	LF.	LF.
10+00.00 to 16+00.00	1531.55	0.00	0.00	475.36	851.76	2,555.29	4,124.61	65.58	424.87	446.94	146.91	73.45	424.87	2,481.53	689.31	0.00	0.00	1.06	0.00	0.00	3,226.91	0.00	124.18	264.05
16+00.00 to 21+00.00	147.90	86.68	0.00	162.99	0.00	0.00	0.00	77.30	1,546.08	0.00	173.16	86.58	1,546.08	0.00	0.00	4.29	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21+00.00 to 26+00.00	79.12	0.00	0.00	159.88	77.89	0.00	0.00	76.22	1,524.44	0.00	170.74	85.37	1,524.44	0.00	0.00	0.00	5.49	5.34	176.16	67.27	0.00	138.73	0.00	0.00
26+00.00 to 31+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.68	1,573.68	0.00	176.25	88.13	1,573.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31+00.00 to 36+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.14	1,562.77	0.00	175.03	87.52	1,562.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36+00.00 to 41+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.96	1,539.24	0.00	172.39	86.20	1,539.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41+00.00 to 46+00.00	0.00	0.00	467.24	321.82	0.00	0.00	0.00	76.23	1,524.68	0.00	170.76	85.38	1,524.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46+00.00 to 51+00.00	0.00	0.00	421.00	289.88	0.00	0.00	0.00	75.96	1,519.21	0.00	170.15	85.08	1,519.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51+00.00 to 56+00.00	0.00	0.00	500.00	333.33	0.00	0.00	0.00	77.15	1,543.10	0.00	172.83	86.41	1,543.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56+00.00 to 61+00.00	0.00	0.00	494.49	329.62	0.00	0.00	0.00	73.00	1,460.02	0.00	163.52	81.76	1,460.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80+88.71 to 83+21.19	451.04	0.00	0.00	181.38	351.50	1,054.49	1,262.22	0.00	0.00	0.00	0.00	0.00	0.00	1,008.93	280.26	0.00	0.00	0.00	0.00	0.00	993.90	0.00	0.00	0.00
<b>TOTALS</b>	<b>2,209.60</b>	<b>86.68</b>	<b>1,382.73</b>	<b>2,254.25</b>	<b>1,281.15</b>	<b>3,609.78</b>	<b>5,386.83</b>	<b>755.24</b>	<b>14,218.07</b>	<b>446.94</b>	<b>1,691.74</b>	<b>845.87</b>	<b>14,218.07</b>	<b>3,490.47</b>	<b>969.57</b>	<b>4.29</b>	<b>10.75</b>	<b>6.40</b>	<b>176.16</b>	<b>67.27</b>	<b>4,220.80</b>	<b>138.73</b>	<b>124.18</b>	<b>264.05</b>

**STREET SIGN SUMMARY**


STREET	STATION	OFFSET	SIGN	ACTION	SIGN DIMENSION (IN X IN)	SIGN AREA (SF)	1-3/4" SIGN POST	2" SIGN POST
E PINE ST	11+80	LT	HIGHWAY DIRECTIONAL	REMOVE & REPLACE	36 X 72	18.00	22.00	6.00
E PINE ST	16+17	RT	SPEED LIMIT 45 (R2-1)	REMOVE & REPLACE	24 X 30	5.00	10.50	3.00
E PINE ST	21+73	RT	OBJECT MARKER RIGHT (OM-3R)	REMOVE & REPLACE	12 X 36	3.00		
E PINE ST	21+75	LT	OBJECT MARKER RIGHT (OM-3L)	REMOVE & REPLACE	12 X 36	3.00		
E PINE ST	58+71	RT	STOP SIGN AHEAD (W3-1)	REMOVE & REPLACE	30 X 30	6.25	10.50	3.00
E PINE ST	60+12	LT	SPEED LIMIT 45 (R2-1)	REMOVE & REPLACE	24 X 30	5.00	10.50	3.00
<b>TOTAL</b>						<b>40.25</b>	<b>53.50</b>	<b>15.00</b>

**SUMMARY OF PAVEMENT MARKINGS**

LOCATION	4" Solid Yellow Double Line (L.F.)	8" Diagonal Yellow Line (L.F.)*	4" Solid White Line (L.F.)*	24" Solid White Stop Bar (L.F.)*	White Left Arrow Symbol (Each)
10+00 to 16+00	1730	80	1857	108	6
16+00 to 22+50	1300	0	1300	0	0
22+50 to 31+50	1800	0	1800	0	0
31+50 to 40+50	1800	0	1800	0	0
40+50 to 49+50	1800	0	1800	0	0
49+50 to 57+00	1500	0	1500	0	0
57+00 to 61+50	822	0	822	0	0
80+89 to 83+21	465	0	686	0	3
<b>TOTALS</b>	<b>11217</b>	<b>80</b>	<b>11565</b>	<b>108</b>	<b>9</b>

SAVED 2/18/2026 1:07:18 PM BY RYAN PIERCE  
 PLOTTED 2/18/2026 1:08:47 PM BY RYAN PIERCE  
 U:\WCHITA-CIVIL\2022\20961\000\MUNI-TRANS\DRAWINGS\PLANS\20961-000-PAY ITEM NOTES.DWG



SUMMARY OF QUANTITIES			
PROJECT NO. 2036A0045Z & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION			
EAST PINE STREET			
GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:	<b>IPEC</b>	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 104 SOUTH HITCHCOCK AVE., SUITE 1400 TULSA, OK 74104-9108-9400 www.ipec.com	APPROVED:
PLAN SCALE:	DRAWN: KRH 01/2024	DESIGNED: RJP 11/2024	 CITY ENGINEER DATE: 4/17/2020
PROFILE SCALE:	SURVEY: NJR 07/2023	PROJ. MGR: ARK 03/2024	
HORIZONTAL: 1" = N/A	FIELD MGR: RJP 3/26	RECOMMENDED: HAS 3/26	
VERTICAL: 1" = N/A	DESIGN MANAGER: RJP		
FILE:	DRAWING:	ATLAS PAGE NO: 229,230	SHEET 03 OF 35 SHEETS

**GENERAL CONSTRUCTION NOTES**

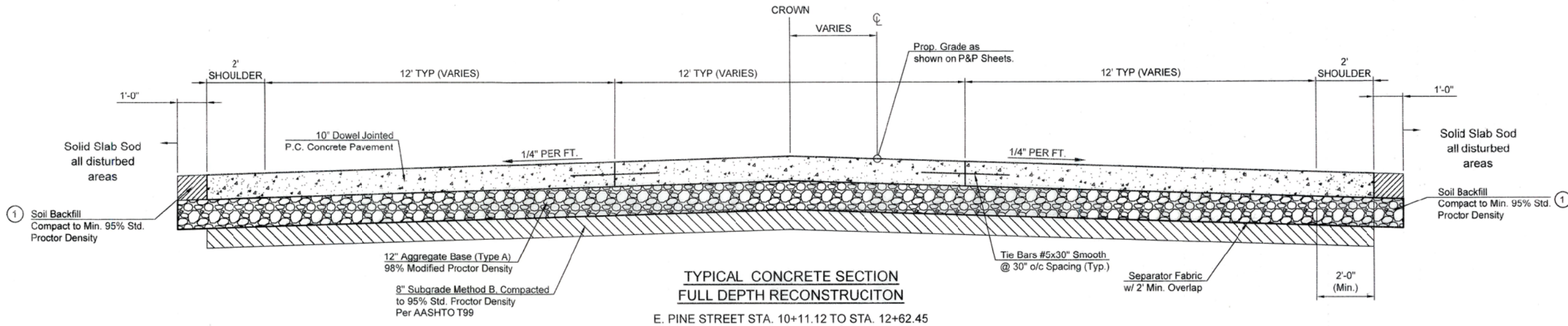
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY THE CITY OF TULSA ORDINANCE #24616, THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT'S STANDARD SPECIFICATIONS, STANDARD DETAILS, 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  
 COX COMMUNICATIONS  
 OKLAHOMA NATURAL GAS  
 PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP)  
 MCI/VERIZON  
 WINDSTREAM  
 MTTA  
 CITY OF TULSA UTILITY COORDINATOR  
  
 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 SLUBBASE 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, 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 PART OF THIS PROJECT. ALL SIGNS AND POSTS 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 SPECIFICATIONS 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 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.

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 RAMP, 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 AUGUST 8, 2023 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 WITH OUR 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), VALERIE COURCHESNE 918-699-0291, 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.

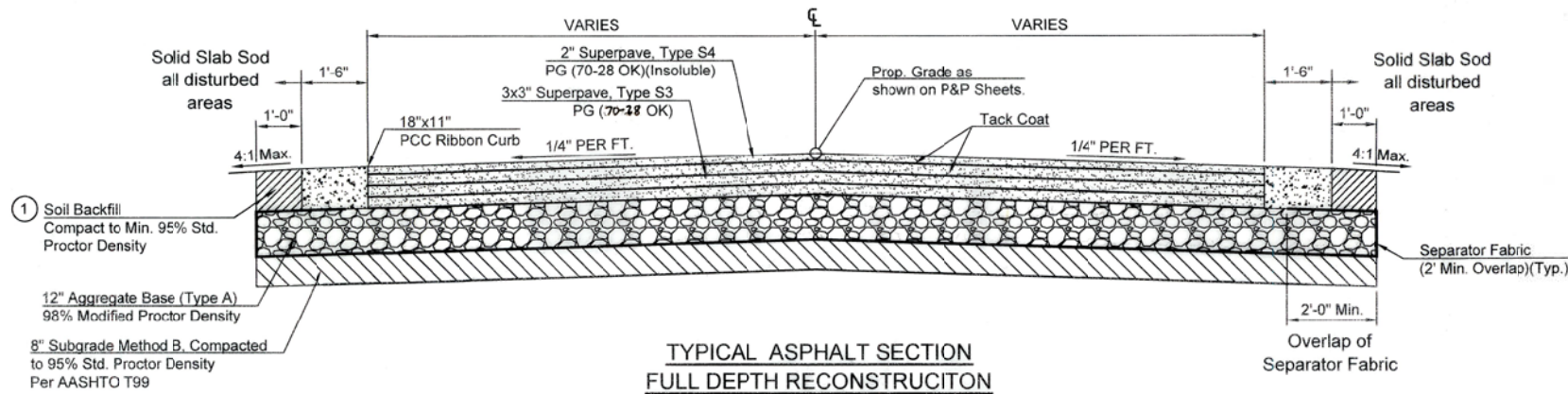
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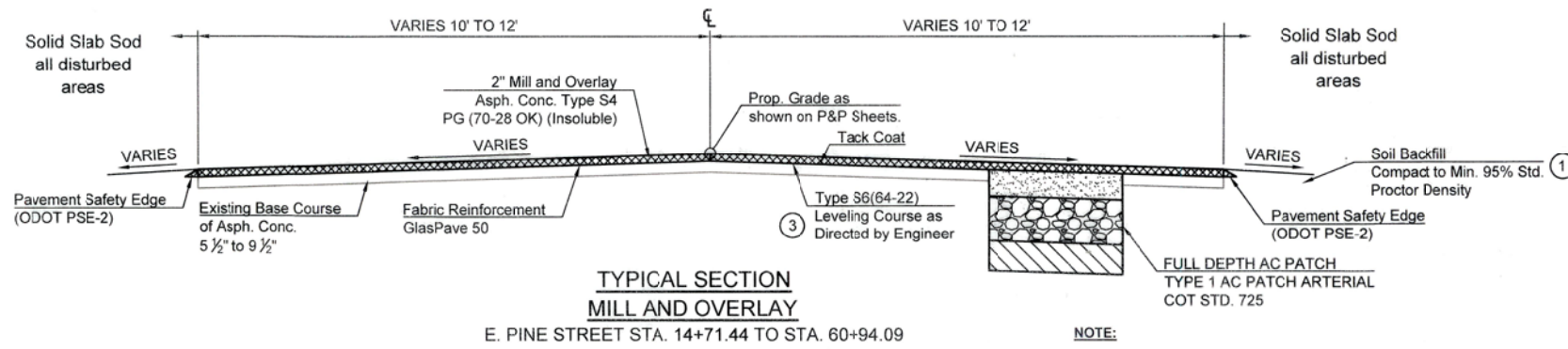
GENERAL CONSTRUCTION NOTES			
PROJECT NO. 2036A0045Z & 2036A0059Z TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1024 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-694-5400 www.pec.com	
PLAN SCALE:	DRAWN	KRB	01/2024
1" = NA	DESIGNED	RJP	11/2024
	SURVEY	NJR	07/2023
PROFILE SCALE:	PROJ MGR.	ARK	03/2024
HORIZONTAL:	LEAD ENGR.	DJ	3/26
1" = NA	FIELD MGR.	ARK	3/26
	RECOMMENDED:	HAS	3-26
VERTICAL:	DESIGN MANAGER	ARK	
1" = NA			
FILE:	DRAWING:		DATE: 4/17/2024
ATLAS PAGE NO: 229,230			SHEET 04 OF 39 SHEETS



**TYPICAL CONCRETE SECTION  
FULL DEPTH RECONSTRUCTION**  
E. PINE STREET STA. 10+11.12 TO STA. 12+62.45



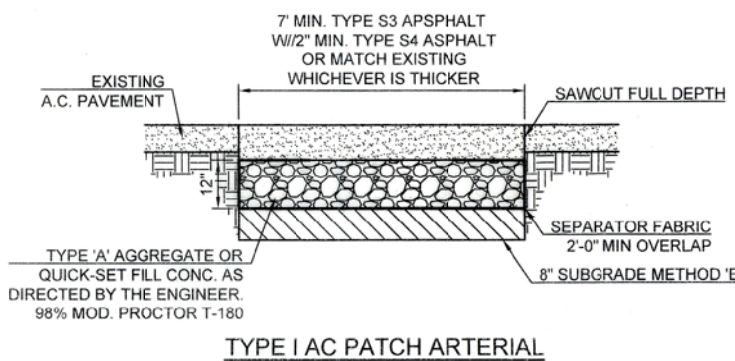
**TYPICAL ASPHALT SECTION  
FULL DEPTH RECONSTRUCTION**  
E. PINE STREET STA. 12+62.45 TO STA. 14+71.44



**TYPICAL SECTION  
MILL AND OVERLAY**  
E. PINE STREET STA. 14+71.44 TO STA. 60+94.09

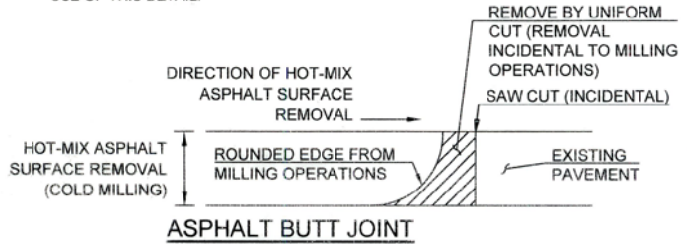
- 1. **TOPSOIL NOTE:**  
The Contractor shall strip all of the available topsoil, stockpile it, and place it back on the section in accordance with section 205 of the ODOT Standard Specifications, "Salvaging Topsoil" adjacent to where the curb and/or inlets are to be replaced. Reserved topsoil shall be spread first on the completed slopes of the cut sections and the remainder on completed fill slopes or other priority areas located by the Engineer. All additional costs associated with operations shall be included in other items of work.
- 2. Slope varies see Cross Sections.
- 3. Superpave Type S6 leveling course shall be used at the discretion of the field engineer prior to placing the fabric reinforcement and may be omitted in its entirety.

**NOTE:**  
PATCH QUANTITIES AND LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FIELD AND DESIGN ENGINEERING.

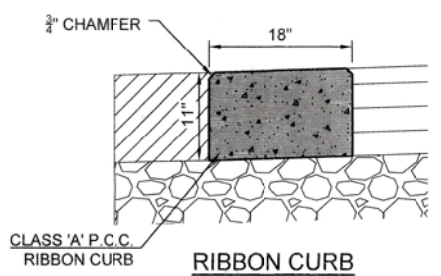


**TYPE I AC PATCH ARTERIAL**

**JOINT NOTE:**  
1. WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE. THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.



**CURB NOTE:**  
1. JOINTS SHALL BE SAW-CUT AT RIGHT ANGLES TO THE CURB TO A DEPTH OF 1-1/4" (MIN.) AND HAVE A WIDTH NO GREATER THAN 3/8". SEALING OF JOINTS IS NOT REQUIRED. EXPANSION JOINTS SHALL BE CONSTRUCTED AT CURVE RETURNS AND AT A MAXIMUM SPACING OF 25' ON STRAIGHT RUNS. JOINT SPACING SHALL MATCH ADJACENT CONCRETE PAVEMENT, OR WITH A 14' MAX SPACING.



**RIBBON CURB**



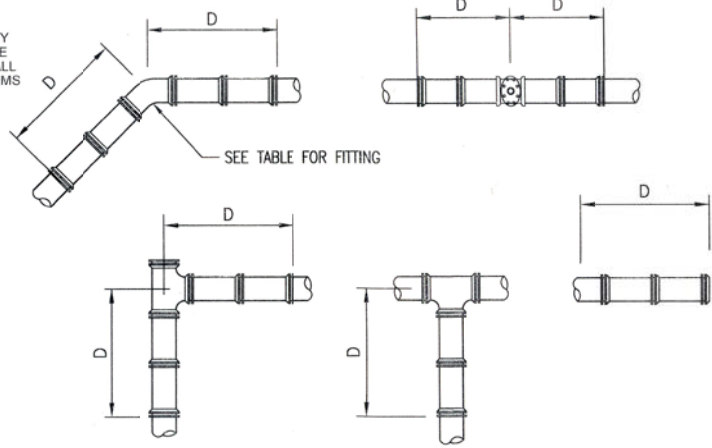
REVISION		BY	DATE	PLAN SCALE:	DRAWN	KRH	01/20/24	APPROVED:
				1" = N/A	DESIGNED	RJP	11/20/24	 CITY ENGINEER
					SURVEY	NJR	07/20/23	
					PROJ. MGR.	ARK	03/20/24	
					LEAD ENGR.	DP	3/25	
					FIELD MGR.	HW	5/16	
					RECOMMENDED:	HW	3-21	
					DESIGN MANAGER	HW		
					FILE:			DATE: 4/17/2026
					DRAWING:			SHEET 05 OF 39 SHEETS

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 PLOTTED 2/27/2026 11:36:26 AM BY RYAN PIERCE  
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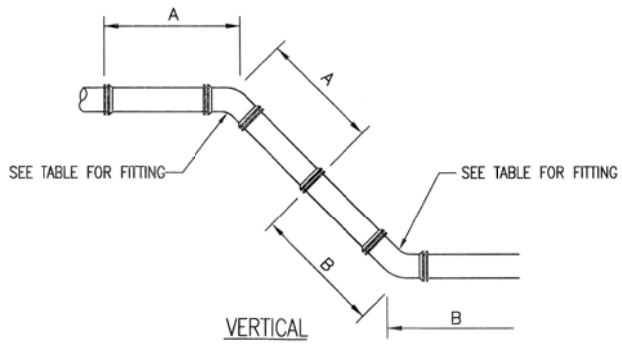
WATERLINE PAY ITEMS					
ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
59	SPECIAL	OWNER ALLOWANCE	18	EA	30,000
60	COT 303	MOBILIZATION		LS	1
61	SPECIAL	TRAFFIC CONTROL		CD	30
62	COT 334	CONSTRUCTION AS-BUILT	24, 25, 27	EA	1
63	ODOT 220	SWPP DOCUMENTATION AND MANAGEMENT	32, 33, 34, 35	LS	1
64	ODOT 642	RIGHT OF WAY CLEARING AND RESTORATION, COMPLETE IN PLACE	4, 5, 6, 7, 22	LF	671
65	COT 304	CONSTRUCTION STAKING LEVEL II		LS	1
66	COT 333	6 INCH WATERLINE ABANDONMENT	5,9	LF	551
67	COT 325	SODDING AND SEEDING	23	SY	373
68	COT 326	STREET WASH DOWN		LF	671
69	COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	203
70	COT 315	1 INCH WATER SERVICE CONNECTION (SHORT)	13, 15, 16, 17	EA	2
71	COT 315	1 INCH WATER METER CAN, LID & RIM		EA	2
72	COT 315	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	13, 17	EA	1
73	COT 317	6 INCH GATE VALVE (RJ)	8	EA	2
74	COT 317	12 INCH GATE VALVE (RJ)	8	EA	3
75	SPECIAL	VALVE BOX	21	EA	5
76	SPECIAL	VALVE BOX EXTENSION	21	EA	2
77	SPECIAL	3-WAY FIRE HYDRANT, IN PLACE		EA	2
78	SPECIAL	6 INCH FIRE HYDRANT EXTENSION		EA	2
79	SPECIAL	6 INCH DUCTILE IRON SLEEVE (RJ)	2, 8, 12	EA	1
80	SPECIAL	12 INCH DUCTILE IRON SLEEVE (RJ)	2, 8, 12	EA	1
81	COT 307	12 INCH DIP, CL51, POLYETHYLENE WRAPPED	1, 2, 3, 9, 11, 27, 28	LF	311
82	COT 307	12 INCH DIP, CL51, POLYETHYLENE WRAPPED (RJ)	1, 2, 3, 8, 9, 11, 27, 28	LF	236
83	COT 328	12 INCH BORE		LF	124
84	SPECIAL	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	2, 8	EA	2
85	SPECIAL	12 INCH DUCTILE IRON 45 DEGREE BEND (RJ)	2, 8	EA	4
86	SPECIAL	12 INCH X 6 INCH DUCTILE IRON REDUCER	2, 8	EA	1
87	COT 335	CONTRACTOR QUALITY CONTROL		LS	1
88	ODOT 619	PAVEMENT REMOVAL AND REPLACEMENT (CONCRETE)	30, 36	SY	70

NOTE:

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.



HORIZONTAL



RESTRAINED JOINTS  
N.T.S.

DIP-Horizontal					
Size, IN	Tee & Plug Ft or inline Valve, Ft	90 Deg Bend, Ft	45 Deg Bend, Ft	22-1/2 Deg Bend, Ft	11-1/4 Deg Bend, Ft
12	89	52	22	11	5

DIP-Vertical				
Size, IN	Location	45 deg bend, Ft	22-1/2 Deg Bend, Ft	11-1/4 Deg Bend, Ft
12	Upper A	51	25	12
	Lower-B	12	6	3

- TABLE SHOWS MINIMUM LENGTH OF RESTRAINED PIPE AND FITTINGS IN FEET.
- RESTRAINED JOINT LENGTHS ARE BASED UPON EBAA RJ CALCULATOR UTILIZING GRANULAR BEDDING (GP), TRENCH TYPE 5, MINIMUM BURY DEPTH - 3' AND A 150psi WORKING PRESSURE.

PAY ITEM NOTES (REVISED 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 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 TUGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASED BORES, ONLY USPIPE 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 FOJAL 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.
- 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 1 1/2" 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 (VEGA 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:
  - 3/4-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM
  - 1-INCH WATER SERVICE CONNECTION SHALL USE 1 1/2-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.
- 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 THE COST OF MATERIALS, LABOR, INSTALLATION, 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. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO:
    - WATER SERVICE LINES OF UNKNOWN OR UNEXPECTED SIZE.
  - 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.
  - 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 CROSS, HDPE WILL USE TWO (2) TEES. NO ADDITIONAL PAYMENT SHALL BE MADE.

- TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTOR'S 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 CONTRACTOR'S EXPENSE. THIS PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION. NETTING SHALL BE REMOVED FROM SOD PRIOR TO PLACEMENT.
- 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 OR GALVANIZED SERVICE LINE, 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 ANCHORS 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 THE 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. THE COST OF MARKER BALLS SHALL BE INCLUDED IN THE 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.
- INCLUDES ## TYPE [X] FILTERS
- PAVEMENT REMOVAL AND REPLACEMENT: THIS PAY ITEM SUPERSEDES CITY OF TULSA STANDARD SPECIFICATION SECTION 329.8, WITH RESPECT TO SAW CUTTING AND DOWELS AND INCLUDES THE FOLLOWING (THESE ITEMS SHALL NOT BE PAID SEPARATELY): SAWCUTTING, DOWELS, DISPOSAL OF BROKEN PAVEMENT, TEMPORARY SURFACES, ASSOCIATED EXCAVATION, PREPARATION OF SUBGRADE, FORMS OR REINFORCING, REMOVAL OR REPLACEMENT OF GRAVEL, ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT DAMAGED BY THE CONTRACTOR, JOIN SEALER, TACK COATS OR EDGE SEALING.



WATERLINE PAY ITEMS AND NOTES			
PROJECT NO. 2036A0045Z & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION			
EAST PINE STREET			
GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:	<b>PEPC</b>	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1824 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-466-6400 www.pepc1.com	APPROVED:
PLAN SCALE:	DRAWN	EMR	01/2024
NONE	DESIGNED	CRG	11/2023
	SURVEY	NJR	07/2023
PROFILE SCALE:	PROJ. MGR.	KPD	01/26
HORIZONTAL: NONE	LEAD ENGR.	01/26	
	FIELD MGR.	01/26	
VERTICAL: NONE	RECOMMENDED BY:	J. M. [Signature]	
	DESIGN MANAGER	[Signature]	
FILE:	DRAWING:	[Signature]	CITY ENGINEER
ATLAS PAGE NO:			DATE: 4/17/2026
			SHEET 06 OF 39 SHEETS

SAVED 12/16/2025 9:38:28 AM BY CHAD GRISIER  
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 U:\WCHITA-CIVIL\2022\2209861000\MUNI-TRANS\DRAWINGS\PLANS\2209861-000-WATERLINE PAY ITEMS AND NOTES.DWG



# STORM WATER MANAGEMENT PLAN

## SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: E Pine Street from N Garnett Rd to N 129th E Ave.

PROJECT DESCRIPTION: Waterline replacement, full depth roadway reconstruction, mill and overlay roadway improvements, and erosion control improvements.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: \_\_\_\_\_

1. Temporary erosion control
2. Installation of waterline improvements
3. Pavement rehabilitation
4. Install permanent sodding and seeding, Remove Temporary Controls

SOIL TYPE: Silt loam, silty clay loam, Dennis-Pharoah complex

AREA TO BE DISTURBED: APPROX. 3.56 ACRES

OFFSITE AREA TO BE DISTURBED: \_\_\_\_\_  
(FOR CONTRACTOR USE)

MAXIMUM ACRES TO BE DISTURBED AT ANY ONE TIME: \_\_\_\_\_  
(FOR CONTRACTOR USE)

LATITUDE & LONGITUDE OF CENTER OF PROJECT: Lat: 36°10'37.01" N Long: 95°50'30.48" W

NAME OF RECEIVING WATERS: Eagle Creek (Tributary of Mingo Creek)

SENSITIVE WATERS OR WATERSHEDS: YES  NO

303(d) IMPAIRED WATERS: YES  NO

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 TARPAULIN
- 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

### IN ADDITION:

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



**STORM WATER MANAGEMENT PLAN**  
PROJECT NO. 2036A0045Z & 2036A0059Z  
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
ARTERIAL STREET REHABILITATION  
EAST PINE STREET  
GARNETT TO 129TH EAST AVE.  
CITY OF TULSA, OKLAHOMA  
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **APEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
1504 SOUTH ULCA AVE. SUITE 1400  
TULSA, OK 74104 918-864-9400 www.apec1.com

REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
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				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.	<i>DJ</i>	1/26	
			VERTICAL:	FIELD MGR.	<i>John B. Pierce</i>	1/26	
			1" = NA	RECOMMENDED	<i>John B. Pierce</i>		
				DESIGN MANAGER	<i>John B. Pierce</i>		
			FILE:	DRAWING			
			ATLAS PAGE NO:	229.230			DATE: 4/17/2026
							SHEET 08 OF 39 SHEETS

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 \PEP1\COMPENET\WICHITA-CIVIL\2022\20961\000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-EROSION CONTROL\_DWG



POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
500	435567.3999	2605121.5842	658.58	BENCH MARK (3/8" IPSC - NATIVE PLAINS)
501	435573.2700	2605103.2800	658.18	MAG NAIL SET
502	435446.7378	2602623.5070	649.49	BENCH MARK (MAG NAIL SET - AERIAL TARGET)
503	435526.6049	2603936.2046	646.28	BENCH MARK (MAG NAIL SET - AERIAL TARGET)
504	435554.4346	2605103.8203	658.02	BENCH MARK (MAG NAIL SET - AERIAL TARGET)
505	435541.9986	2606279.6521	670.76	BENCH MARK (MAG NAIL SET - AERIAL TARGET)
506	435557.8934	2607688.3216	678.39	BENCH MARK (CHISELED "X" FOUND - AERIAL TARGET)
50297	435528.2956	2602703.2971	651.89	5/8" IRON PIN FOUND
60065	435540.3327	2605284.5749	660.58	MAG NAIL FOUND
60066	435539.1459	2605283.0018	660.54	MAG NAIL FOUND
60101	435583.5944	2607094.6233	677.09	MAG NAIL FOUND

COORDINATE LIST - CRL		
POINT	NORTHING	EASTING
100	435,475.3695	2,602,577.9335
101	435,604.4105	2,607,915.1938



**GEOMETRIC LAYOUT**

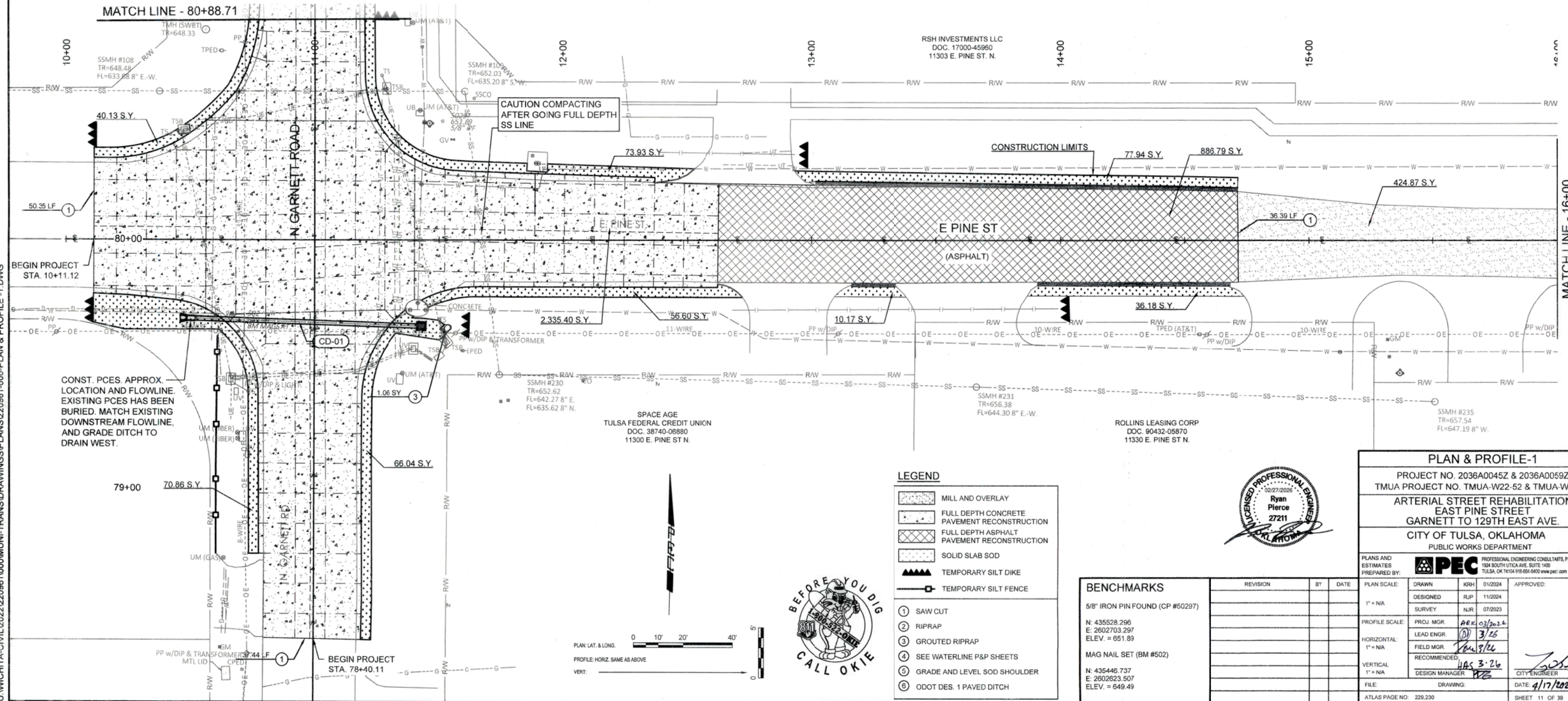
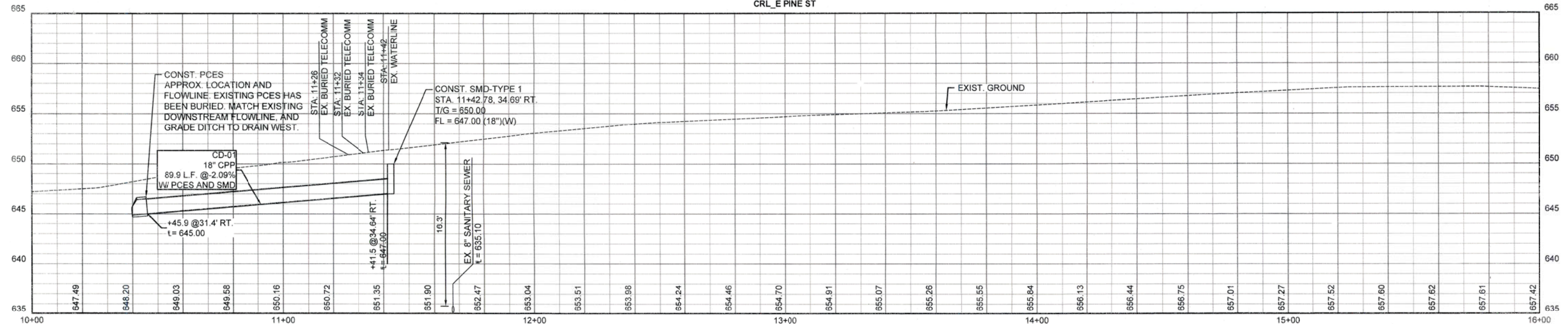
PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
**ARTERIAL STREET REHABILITATION**  
**EAST PINE STREET**  
**GARNETT TO 129TH EAST AVE.**  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **IPEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1824 SOUTH UTICA AVE., SUITE 1400  
 TULSA, OK 74104 918-954-5400 www.ipec.com

REVISION	BY	DATE	PLAN SCALE	DRAWN	KRH	01/2024	APPROVED:
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				SURVEY	NJR	07/2023	
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			VERTICAL:	RECOMMENDED	APR	02/26	
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			ATLAS PAGE NO:	229,230			SHEET 09 OF 39 SHEETS

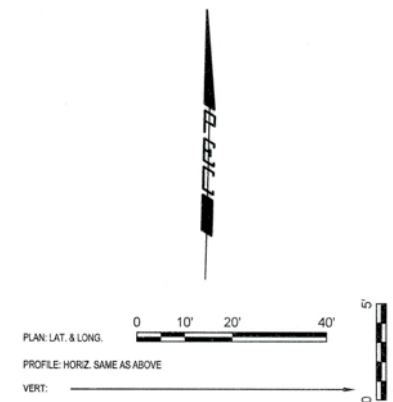
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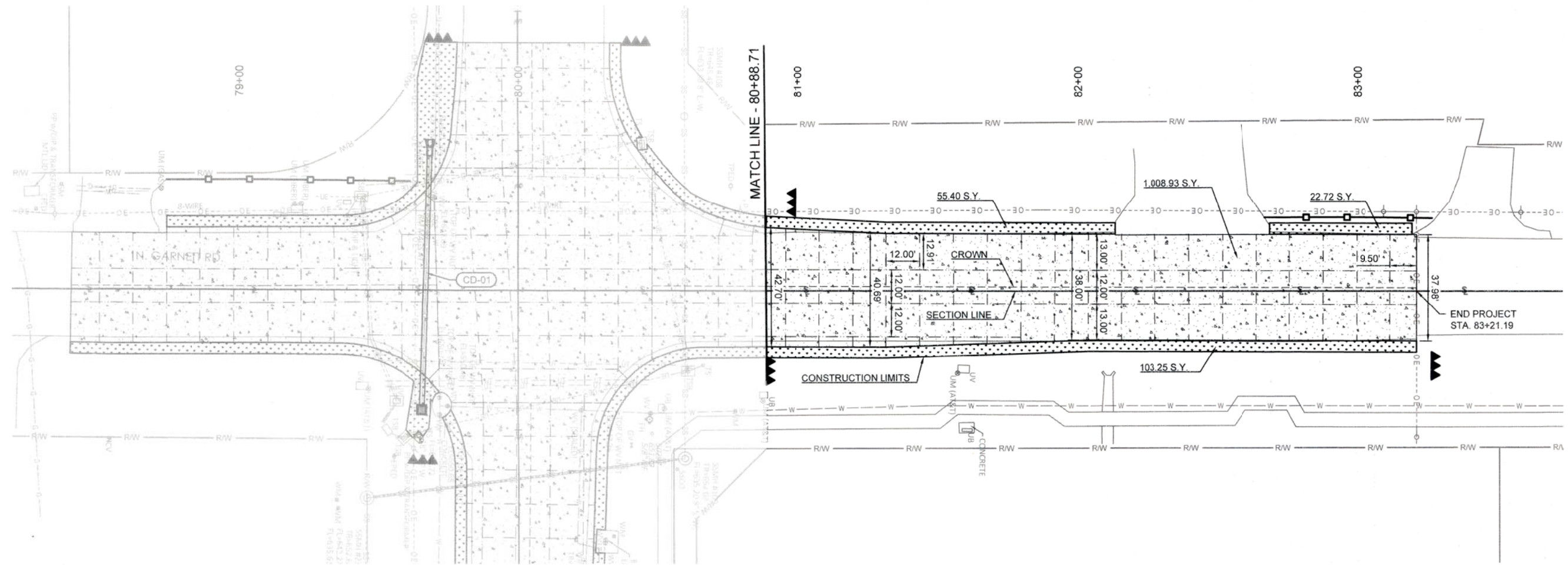
- LEGEND**
- MILL AND OVERLAY
  - FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
  - FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
  - SOLID SLAB SOD
  - TEMPORARY SILT DIKE
  - TEMPORARY SILT FENCE
- ① SAW CUT  
 ② RIPRAP  
 ③ GROUDED RIPRAP  
 ④ SEE WATERLINE P&P SHEETS  
 ⑤ GRADE AND LEVEL SOD SHOULDER  
 ⑥ ODOT DES. 1 PAVED DITCH



PLAN & PROFILE-1			
PROJECT NO. 2036A00452 & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:	<b>PEC</b>	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1924 SOUTH UTICA AVE., SUITE 1400 TULSA, OK 74104 918-684-5400 www.pec.com	APPROVED:
PLAN SCALE:	DRAWN	KRH	01/2024
1" = N/A	DESIGNED	RJP	11/2024
	SURVEY	NJR	07/2023
PROFILE SCALE:	PROJ. MGR.	ARK	03/2024
1" = N/A	LEAD ENGR.	DP	3/26
HORIZONTAL:	FIELD MGR.	ARK	9/26
1" = N/A	RECOMMENDED		
VERTICAL:	DESIGN MANAGER	ARK	3/26
1" = N/A			
FILE:	DRAWING:		DATE: 4/17/2026
ATLAS PAGE NO. 229.230			SHEET 11 OF 39 SHEETS

BENCHMARKS	REVISION	BY	DATE
5/8" IRON PIN FOUND (CP #50297)			
N: 435528.296 E: 2602703.297 ELEV. = 651.89			
MAG NAIL SET (BM #502)			
N: 435446.737 E: 2602623.507 ELEV. = 649.49			

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**NOTE:**

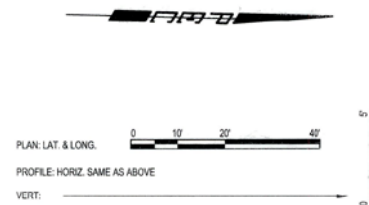
ADDITIONAL PLAN AND PROFILE DATA WILL BE PROVIDED BY THE CITY OF TULSA PRIOR TO NOTICE TO PROCEED DATE.



**LEGEND**

- MILL AND OVERLAY
- FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
- FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
- SOLID SLAB SOD
- TEMPORARY SILT DIKE
- TEMPORARY SILT FENCE

- ① SAW CUT
- ② RIPRAP
- ③ GROUTED RIPRAP
- ④ SEE WATERLINE P&P SHEETS
- ⑤ GRADE AND LEVEL SOD SHOULDER
- ⑥ ODOT DES. 1 PAVED DITCH



**BENCHMARKS**

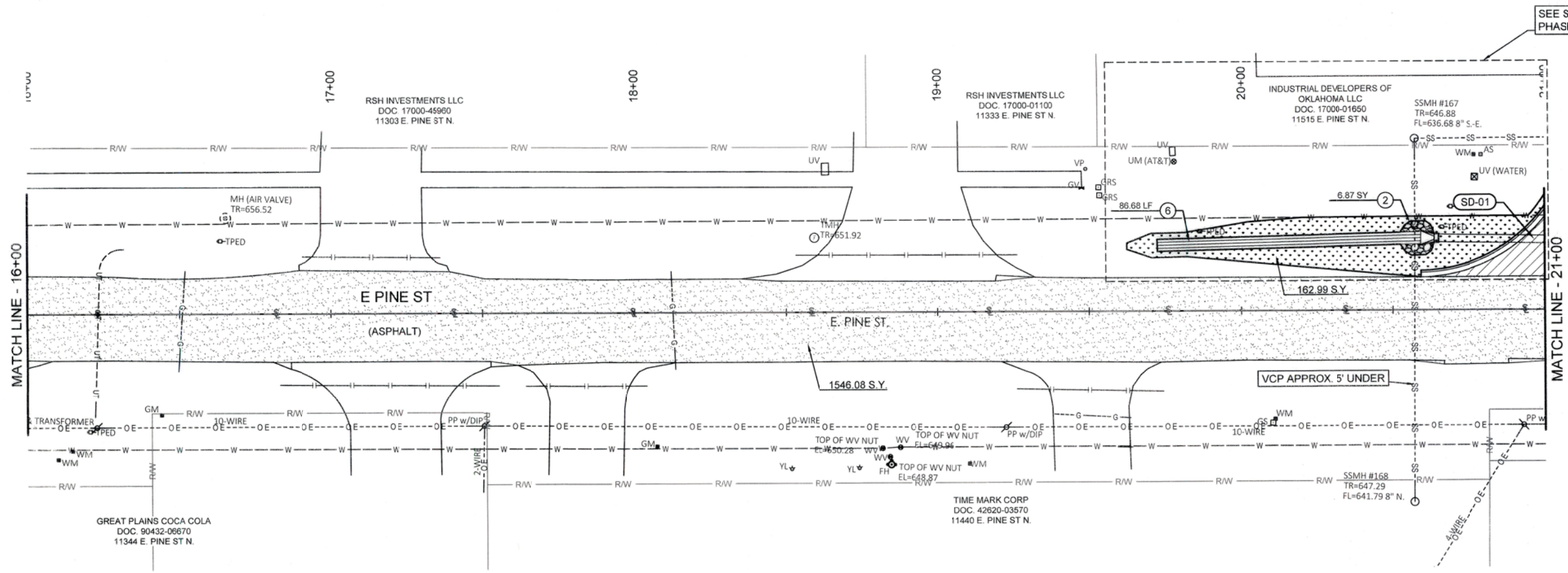
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 ELEV. = 651.89  
 MAG NAIL SET (BM #502)  
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 E: 2602623.507  
 ELEV. = 649.49

REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
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				SURVEY	NJR	07/2023	
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			VERTICAL:	RECOMMENDED	HAS	3.26	
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			ATLAS PAGE NO:	229.230			SHEET 11A OF 39 SHEETS

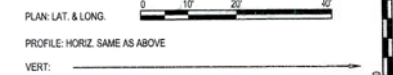
**PLAN & PROFILE - 1A**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
**ARTERIAL STREET REHABILITATION**  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1924 SOUTH UTICA AVE. SUITE 1400  
 TULSA, OK 74104 918-664-9400 www.pec.com

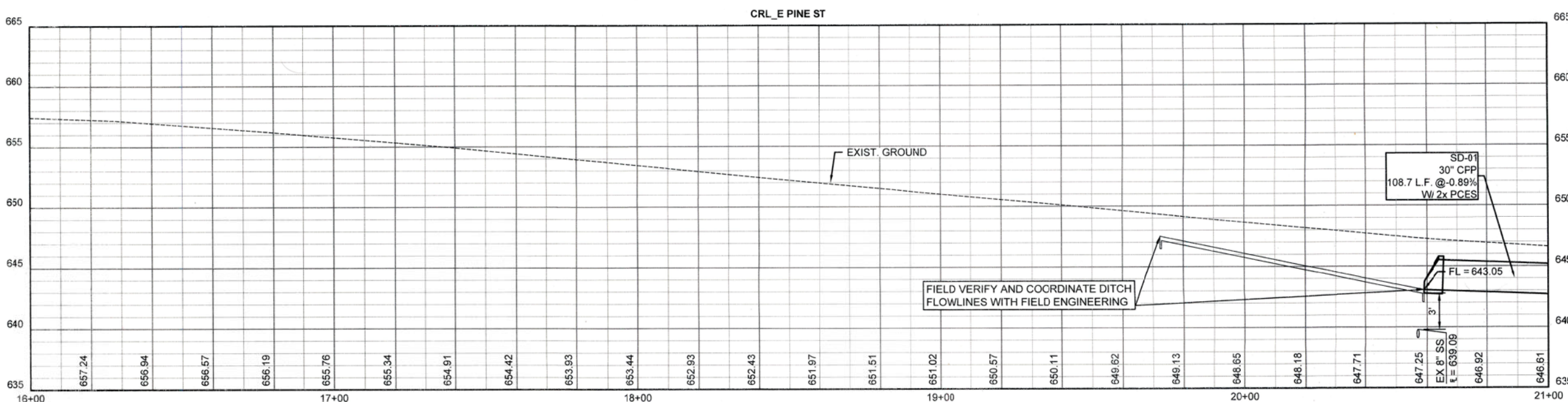
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SEE SHEET 23 FOR PHASED DRIVEWAY DETAIL



- LEGEND**
- MILL AND OVERLAY
  - FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
  - FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
  - SOLID SLAB SOD
  - TEMPORARY SILT DIKE
- 1 SAW CUT
  - 2 RIPRAP
  - 3 GROUDED RIPRAP
  - 4 SEE WATERLINE P&P SHEETS
  - 5 GRADE AND LEVEL SOD SHOULDER
  - 6 ODOT DES. 1 PAVED DITCH



FIELD VERIFY AND COORDINATE DITCH FLOWLINES WITH FIELD ENGINEERING



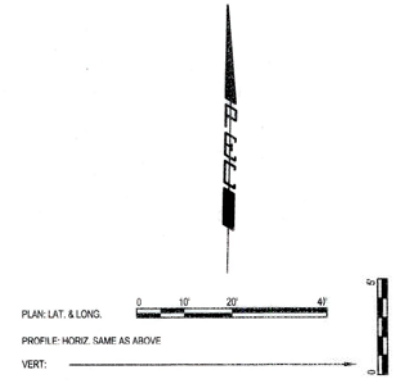
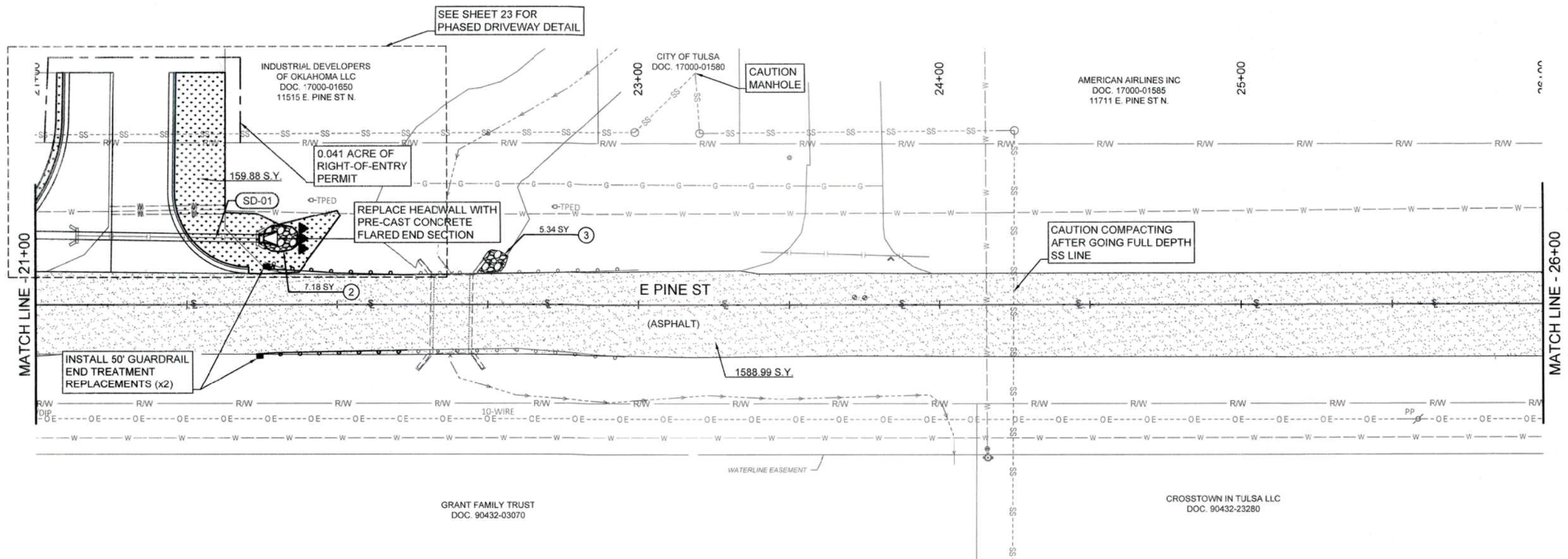
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 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
 ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

**BENCHMARKS**  
 5/8" IRON PIN FOUNT (CP #50297)  
 N: 435528.295  
 E: 2602703.297  
 ELEV. = 651.89  
 MAG NAIL SET (BM #502)  
 N: 435446.737  
 E: 2602623.537  
 ELEV. = 649.49

REVISION	BY	DATE

PLANS AND ESTIMATES PREPARED BY:	<b>IPEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 194 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-664-6400 www.perc.com	APPROVED:
PLAN SCALE:	DRAWN: KRH 01/2024 DESIGNED: RJP 11/2024 SURVEY: NJR 07/2023	 RYAN PIERCE CIVIL ENGINEER
PROFILE SCALE:	PROJ. MGR. ARN 03/2024 LEAD ENGR. RW 3/26 FIELD MGR. RW 3/26 RECOMMENDED: HAS 3/26 DESIGN MANAGER: RW	
HORIZONTAL:	1" = NA	
VERTICAL:	1" = NA	
FILE:	DRAWING:	DATE: 4/17/2026
ATLAS PAGE NO. 229,230		SHEET 12 OF 39 SHEETS

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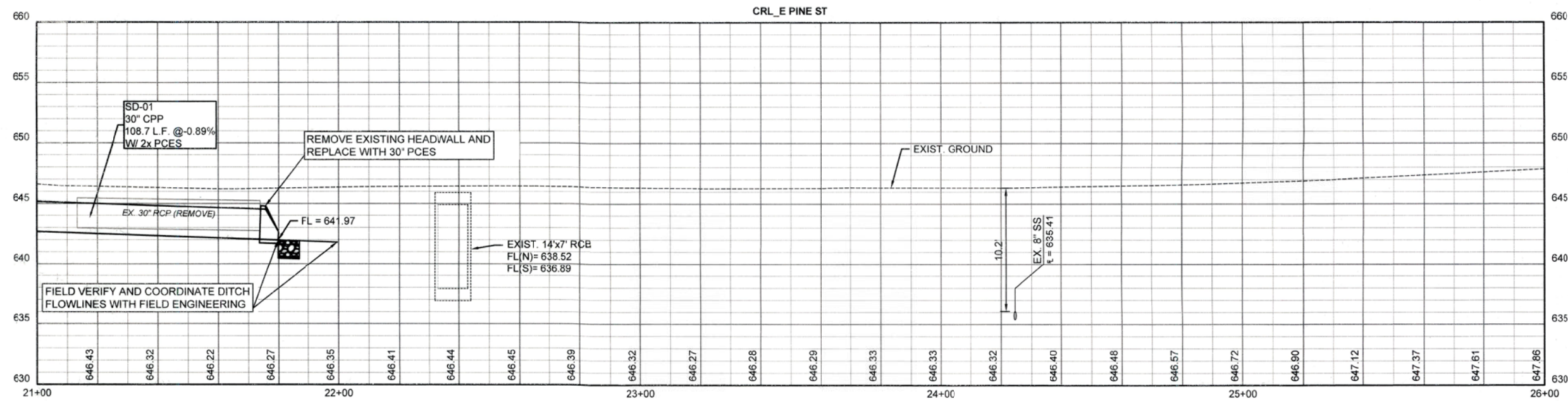


**LEGEND**

	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE

①	SAW CUT
②	RIPRAP
③	GROUTED RIPRAP
④	SEE WATERLINE P&P SHEETS
⑤	GRADE AND LEVEL SOD SHOULDER
⑥	ODOT DES. 1 PAVED DITCH



PLAN & PROFILE-3			
PROJECT NO. 2036A0045Z & 2036A0059Z TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1304 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-684-9400 www.pcep.com	APPROVED:
BENCHMARKS	DRAWN	KRH 01/2024	DATE: 4/17/2026
	DESIGNED	RJP 11/2024	
5/8" IRON PIN FOUND (CP #50297) N: 435528.296 E: 2602703.297 ELEV. = 651.89 MAG NAIL SET (BM #503) N: 435526.6049 E: 2603936.2046 ELEV. = 646.28	SURVEY	NJR 07/2023	SHEET 13 OF 39 SHEETS
	PROJ. MGR.	ARL 02/2024	
	LEAD ENGR.	RJP 3/26	
	FIELD MGR.	RJP 3/26	
	RECOMMENDED:	ARL 3/26	
	DESIGN MANAGER	RJP	
	FILE:	DRAWING:	
	ATLAS PAGE NO: 229.230		

**BENCHMARKS**

5/8" IRON PIN FOUND (CP #50297)

N: 435528.296  
E: 2602703.297  
ELEV. = 651.89

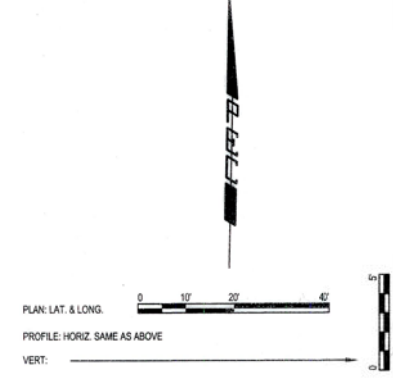
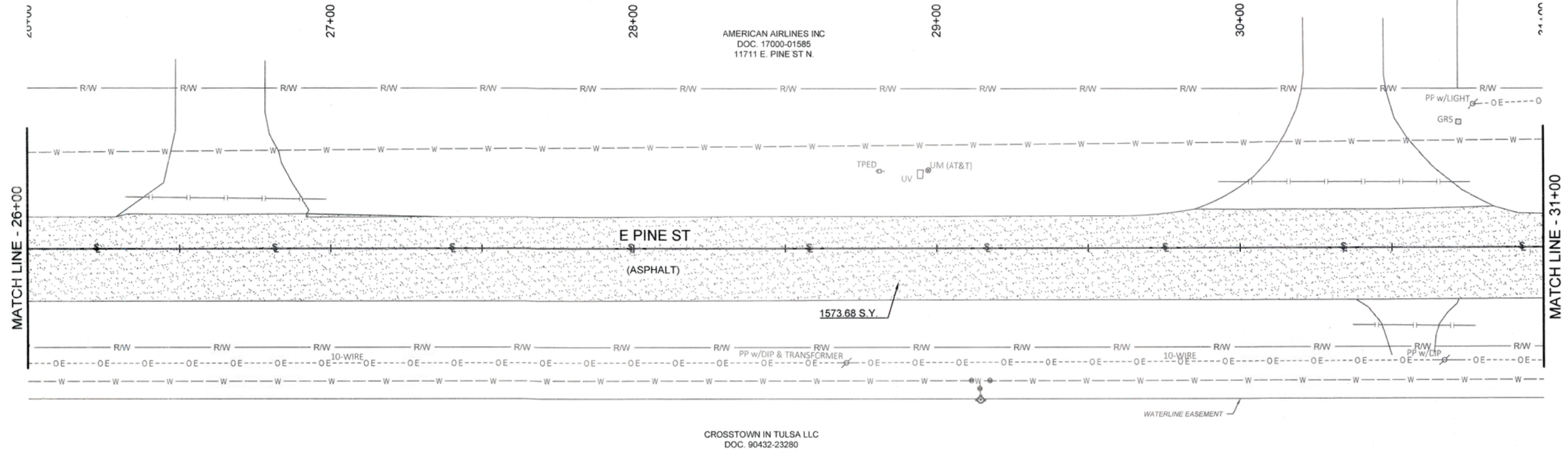
MAG NAIL SET (BM #503)

N: 435526.6049  
E: 2603936.2046  
ELEV. = 646.28

REVISION	BY	DATE

PLAN SCALE:	1" = N/A
HORIZONTAL:	1" = N/A
VERTICAL:	1" = N/A

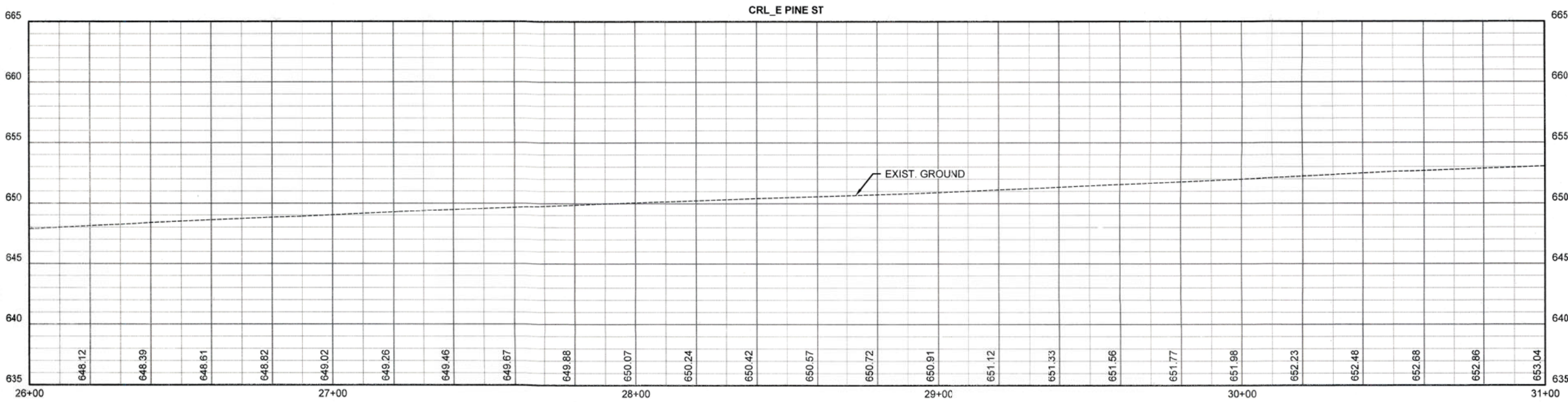
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**LEGEND**

	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE

- ① SAW CUT
- ② RIPRAP
- ③ GROUTED RIPRAP
- ④ SEE WATERLINE P&P SHEETS
- ⑤ GRADE AND LEVEL SOD SHOULDER
- ⑥ ODOT DES. 1 PAVED DITCH



**PLAN & PROFILE-4**

PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53

**ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT**

**BENCHMARKS**

MAG NAIL SET (BM #501)  
 N: 435573.270  
 E: 2605103.280  
 ELEV. = 658.18

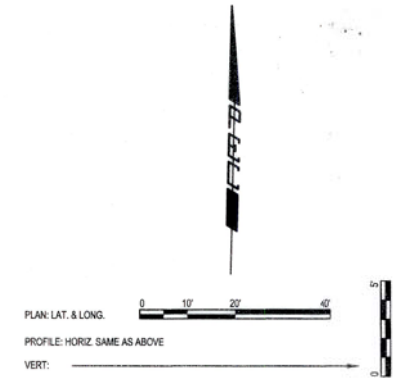
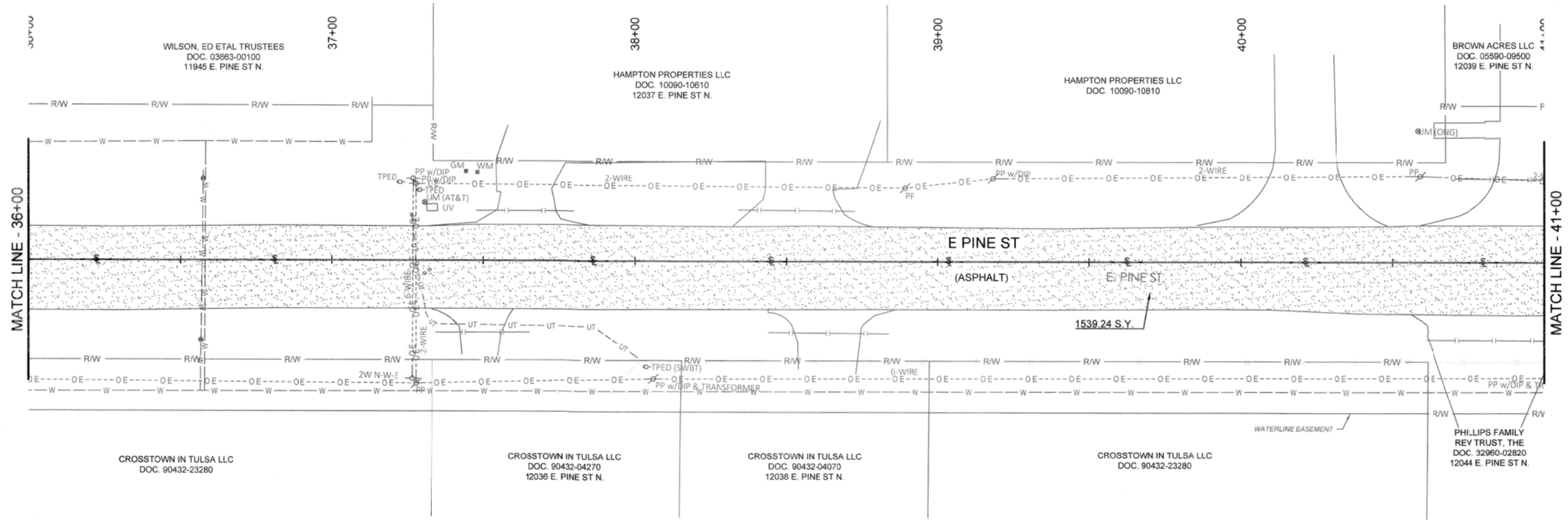
MAG NAIL SET (BM #504)  
 N: 435554.4346  
 E: 2605103.820  
 ELEV. = 658.02

REVISION	BY	DATE	APPROVED

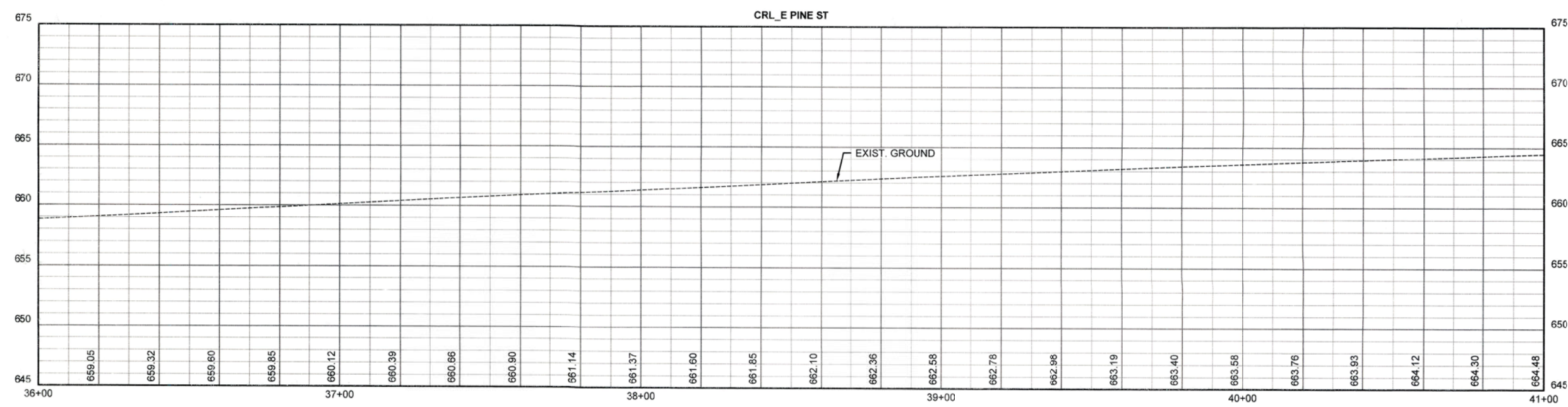
PLANS AND ESTIMATES PREPARED BY:	<b>PEPC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1824 SOUTH UTICA AVE., SUITE 1400 TULSA, OK 74104 918-884-5400 www.pec1.com	DATE: 01/20/24	APPROVED:
PLAN SCALE:	DRAWN: KRH	DATE: 11/20/24	APPROVED: <i>[Signature]</i> CITY ENGINEER
1" = N/A	DESIGNED: RJP	DATE: 07/20/23	
PROFILE SCALE:	SURVEY: NJR	DATE: 07/20/23	DATE: 4/17/2026
1" = N/A	PROJ. MGR. ALK	DATE: 03/20/26	
HORIZONTAL:	LEAD ENGR. DJ	DATE: 3/26	DATE: 4/17/2026
1" = N/A	FIELD MGR. JHU	DATE: 3/26	
VERTICAL:	RECOMMENDED: HAS	DATE: 3/26	DATE: 4/17/2026
1" = N/A	DESIGN MANAGER: JHZ	DATE: 3/26	
FILE:	DRAWING:	DATE:	DATE: 4/17/2026
ATLAS PAGE NO: 229,230			SHEET 14 OF 39 SHEETS



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- LEGEND**
- MILL AND OVERLAY
  - FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
  - FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
  - SOLID SLAB SOD
  - TEMPORARY SILT DIKE
- ① SAW CUT
  - ② RIPRAP
  - ③ GROUTED RIPRAP
  - ④ SEE WATERLINE P&P SHEETS
  - ⑤ GRADE AND LEVEL SOD SHOULDER
  - ⑥ ODOT DES. 1 PAVED DITCH



**PLAN & PROFILE-6**

PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53

**ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.**

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

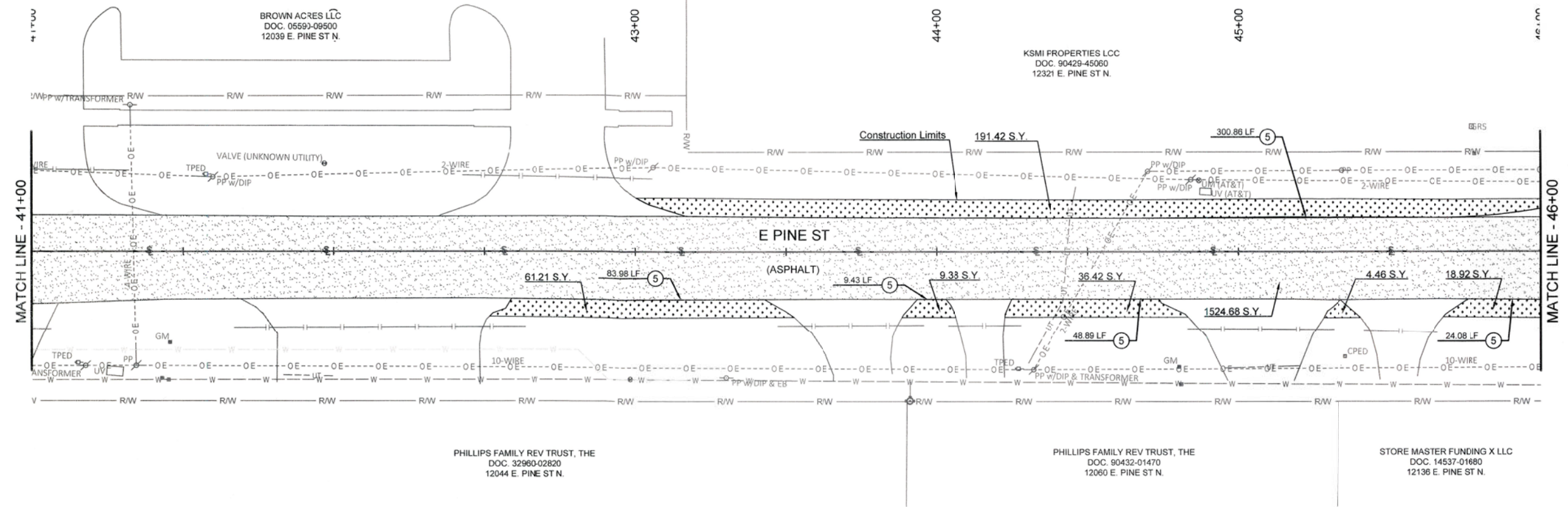
**BENCHMARKS**

MAG NAIL FOUND (CP #60065)  
 N: 435540.332  
 E: 2605284.574  
 ELEV. = 660.58

MAG NAIL FOUND (CP #60066)  
 N: 435539.145  
 E: 2605283.001  
 ELEV. = 660.54

REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
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				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.	AKK	03/2026	
				LEAD ENGR.	AKK	3/26	
			HORIZONTAL:	FIELD MGR.	RJP	3/26	
			1" = N/A	RECOMMENDED:	AKK	3/26	 CITY ENGINEER
			VERTICAL:	DESIGN MANAGER	RJP		
			1" = N/A	FILE:	DRAWING:		DATE: 4/17/2026
			ATLAS PAGE NO: 229.230				SHEET 16 OF 39 SHEETS

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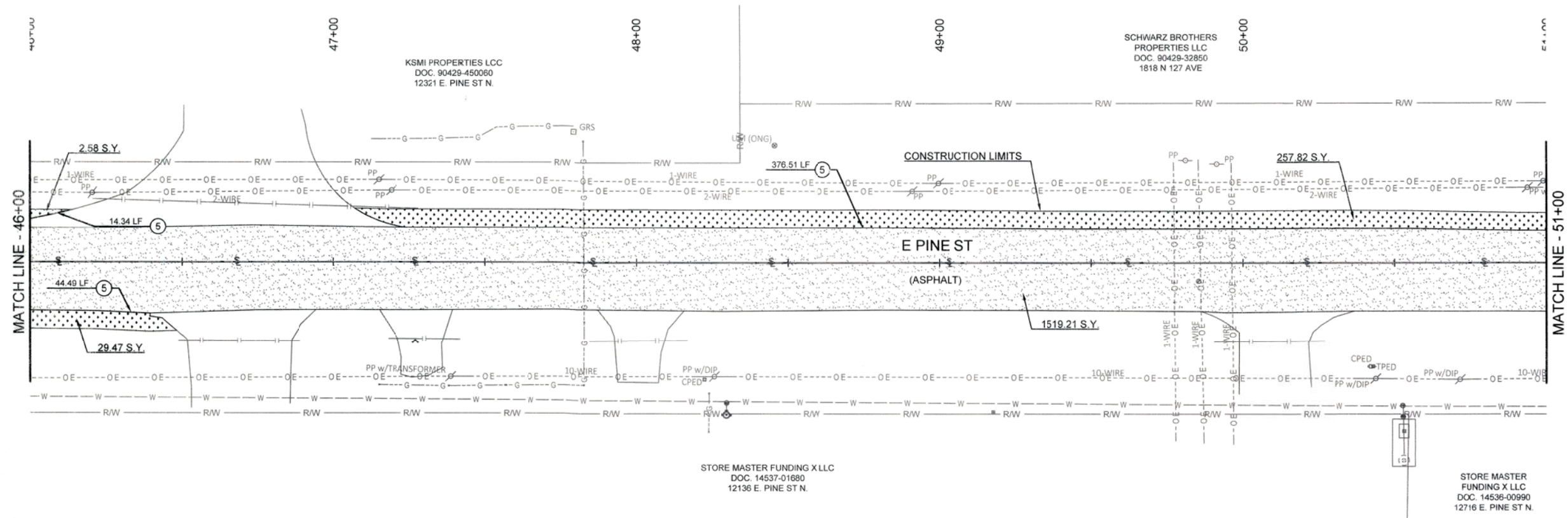
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	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE
①	SAW CUT
②	RIPRAP
③	GROUTED RIPRAP
④	SEE WATERLINE P&P SHEETS
⑤	GRADE AND LEVEL SOD SHOULDER
⑥	ODOT DES. 1 PAVED DITCH



PLAN & PROFILE-7			
PROJECT NO. 2036A0045Z & 2036A0059Z TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE. CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1924 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-684-9400 www.pec1.com	
BENCHMARKS	REVISION	BY	DATE
MAG NAIL FOUND (CP #80101) N: 435583.594 E: 2607094.623 ELEV. = 677.09 MAG NAIL SET (BM #505) N: 435541.998 E: 2606279.652 ELEV. = 670.76			
PLAN SCALE:	DRAWN	KRH	01/2024
1" = N/A	DESIGNED	RJP	11/2024
	SURVEY	NJR	07/2023
PROFILE SCALE:	PROJ. MGR.	ARK	05/2024
1" = N/A	LEAD ENGR.	DI	3/25
	FIELD MGR.	Kau	3/26
HORIZONTAL:	RECOMMENDED	HAS	3/26
1" = N/A	DESIGN MANAGER	PEZ	
VERTICAL:	FILE:	DRAWING:	DATE: 4/17/2026
1" = N/A			
	ATLAS PAGE NO. 229.230		SHEET 17 OF 39 SHEETS

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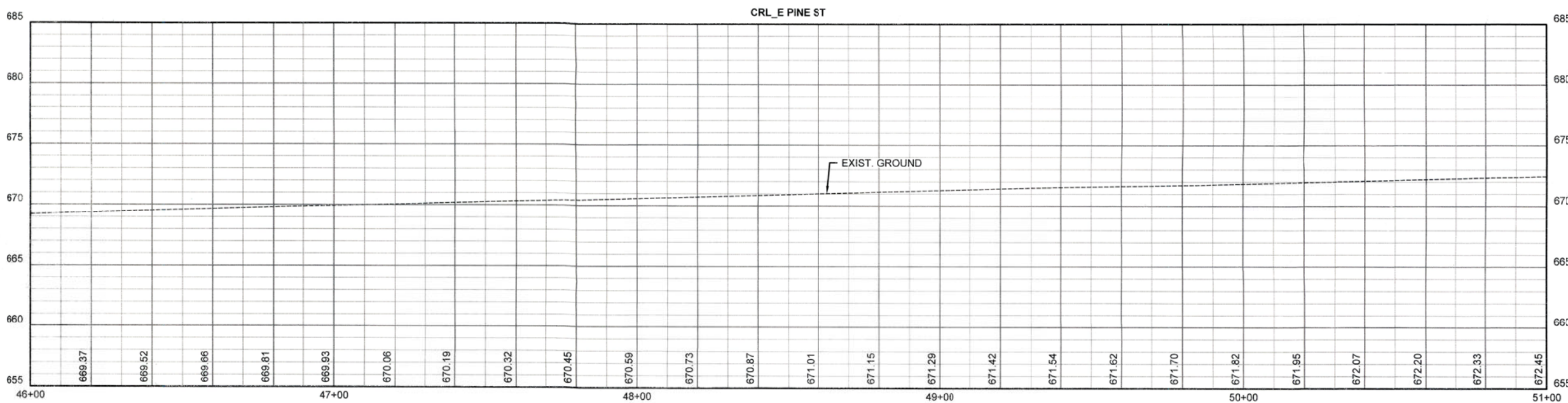


**LEGEND**

	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE

①	SAW CUT
②	RIPRAP
③	GRouted RIPRAP
④	SEE WATERLINE P&P SHEETS
⑤	GRADE AND LEVEL SOD SHOULDER
⑥	ODOT DES. 1 PAVED DITCH



**PLAN & PROFILE-8**

PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
**ARTERIAL STREET REHABILITATION**  
**EAST PINE STREET**  
**GARNETT TO 129TH EAST AVE.**  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

**BENCHMARKS**

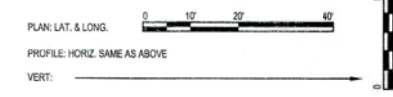
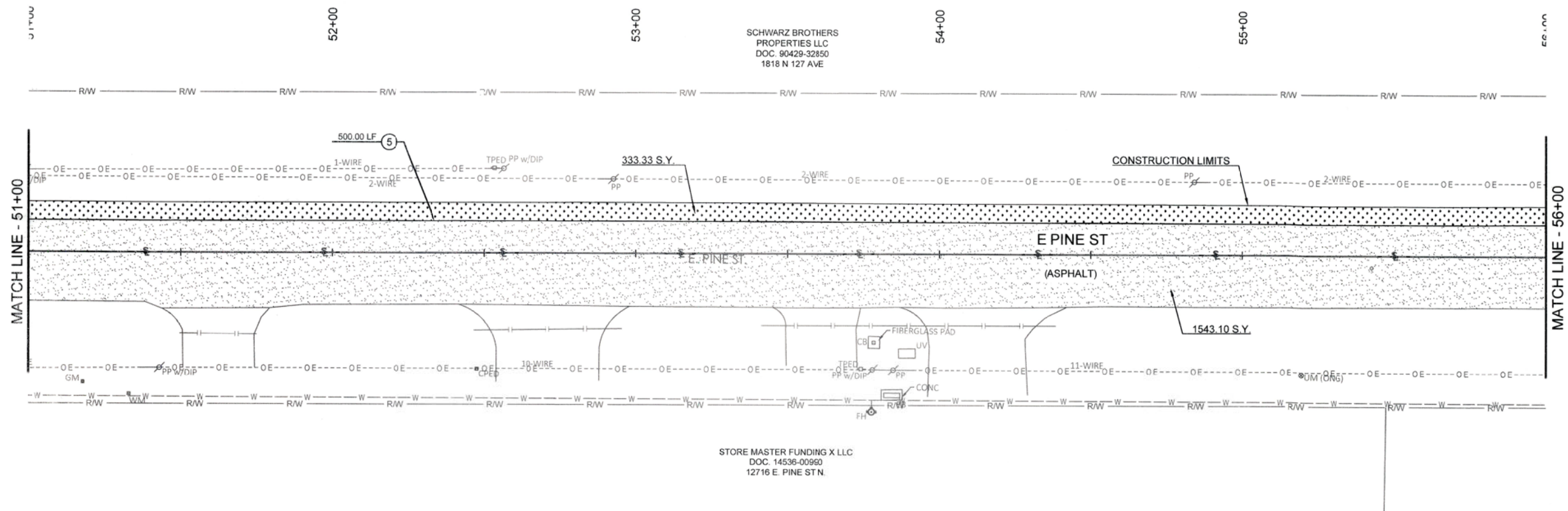
MAG NAIL FOUND (CP #60101)

N: 435583.594  
E: 2607094.623  
ELEV. = 677.09

MAG NAIL SET (BM #505)

N: 435541.998  
E: 2606279.652  
ELEV. = 670.76

REVISION	BY	DATE	PLAN SCALE:	DESIGNED:	DATE:	APPROVED:
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			PROFILE SCALE:	PROJ. MGR.	AR.N. 03/2024	
			HORIZONTAL:	LEAD ENGR.	3/26	
			1" = NA	FIELD MGR.	Tom Sbr	
			VERTICAL:	RECOMMENDED:	HAS 3-26	
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			FILE:	DRAWING:		
			ATLAS PAGE NO. 229.230			DATE 4/17/2026

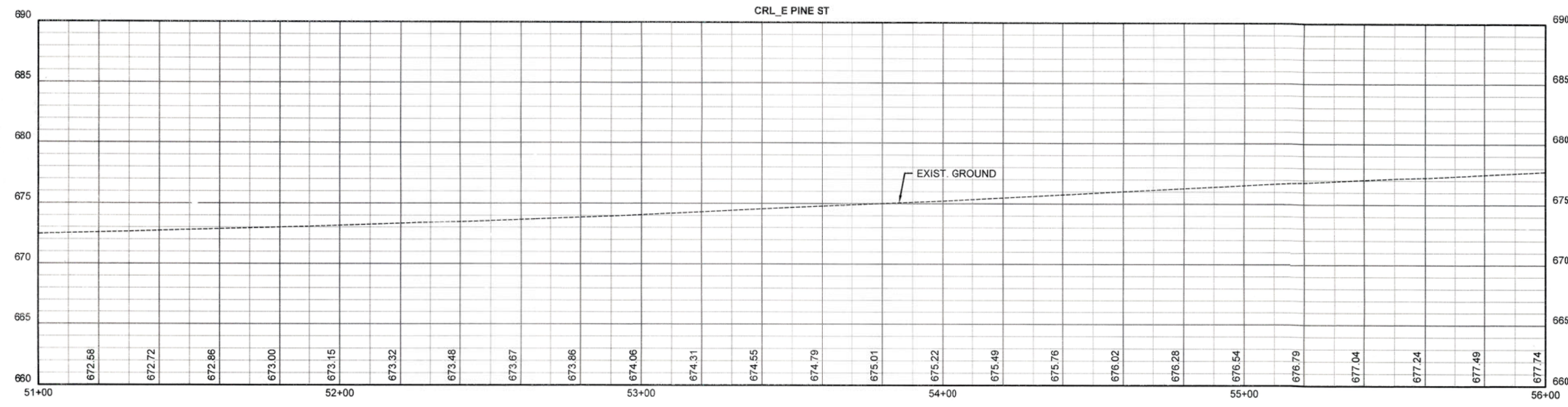


**LEGEND**

	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE

①	SAW CUT
②	RIPRAP
③	GROUTED RIPRAP
④	SEE WATERLINE P&P SHEETS
⑤	GRADE AND LEVEL SOD SHOULDER
⑥	ODOT DES. 1 PAVED DITCH



**PLAN & PROFILE-9**

PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53

**ARTERIAL STREET REHABILITATION**  
**EAST PINE STREET**  
**GARNETT TO 129TH EAST AVE.**

CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:	<b>PPEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1824 SOUTH UTICA AVE., SUITE 1400 TULSA, OK 74104 918-584-9400 www.ppec1.com	APPROVED:
PLAN SCALE:	DRAWN: KRH 01/2024 DESIGNED: RJP 11/2024 SURVEY: NJR 07/2023	 CITY ENGINEER DATE: 4/17/2024
PROFILE SCALE:	PROJ. MGR: ARK 03/2024 LEAD ENGR: DJ 5/22 FIELD MGR: RJP 3/22	
HORIZONTAL:	RECOMMENDED: HHS 3-24 DESIGN MANAGER: RJP	
VERTICAL:	FILE: DRAWING: DATE: 4/17/2024	
ATLAS PAGE NO: 229.230	SHEET 19 OF 39	SHEETS

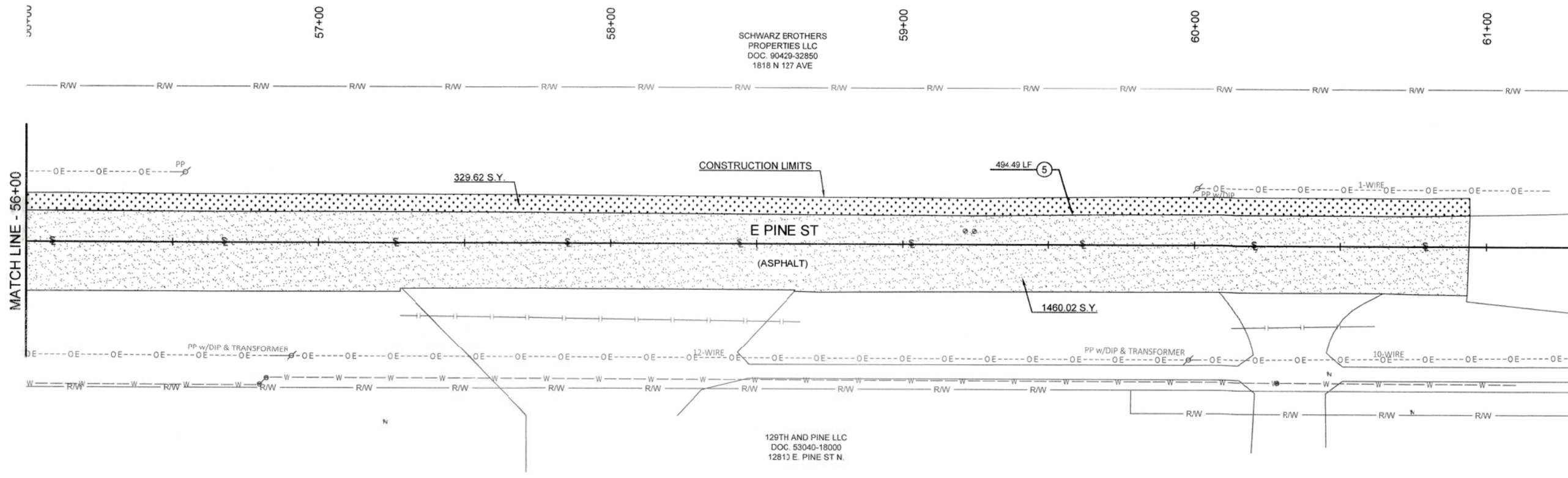
**BENCHMARKS**

MAG NAIL FOUND (CP #60101)  
 N: 435583.594  
 E: 2607094.623  
 ELEV. = 677.09

MAG NAIL SET (BM #506)  
 N: 435557.893  
 E: 2607688.321  
 ELEV. = 678.39

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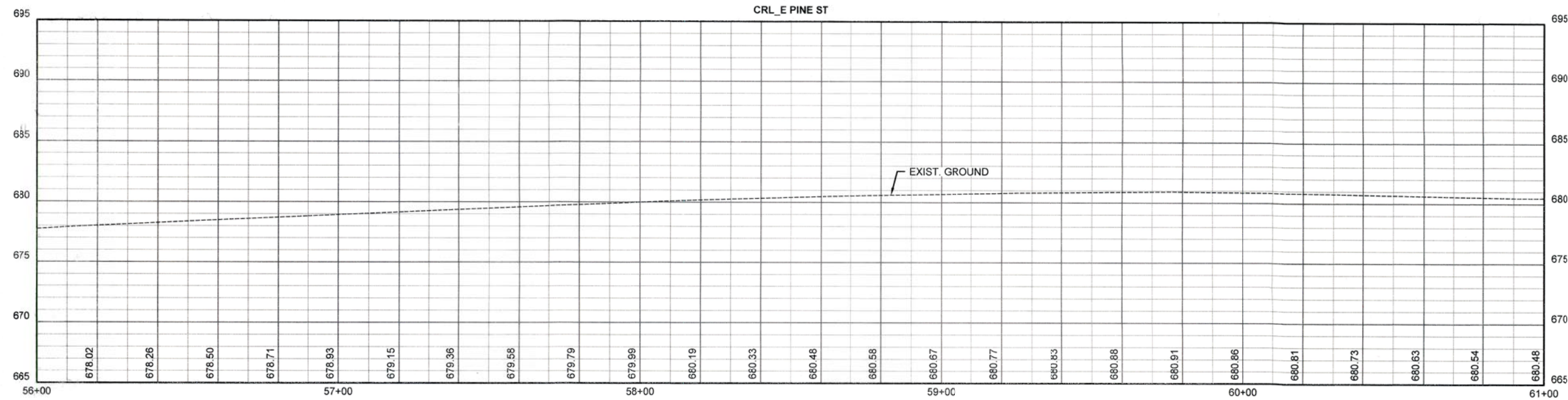
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**LEGEND**

	MILL AND OVERLAY
	FULL DEPTH CONCRETE PAVEMENT RECONSTRUCTION
	FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION
	SOLID SLAB SOD
	TEMPORARY SILT DIKE

- ① SAW CUT
- ② RIPRAP
- ③ GROUTED RIPRAP
- ④ SEE WATERLINE P&P SHEETS
- ⑤ GRADE AND LEVEL SOD SHOULDER
- ⑥ ODOT DES. 1 PAVED DITCH



**PLAN & PROFILE-10**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
**ARTERIAL STREET REHABILITATION**  
**EAST PINE STREET**  
**GARNETT TO 129TH EAST AVE.**  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

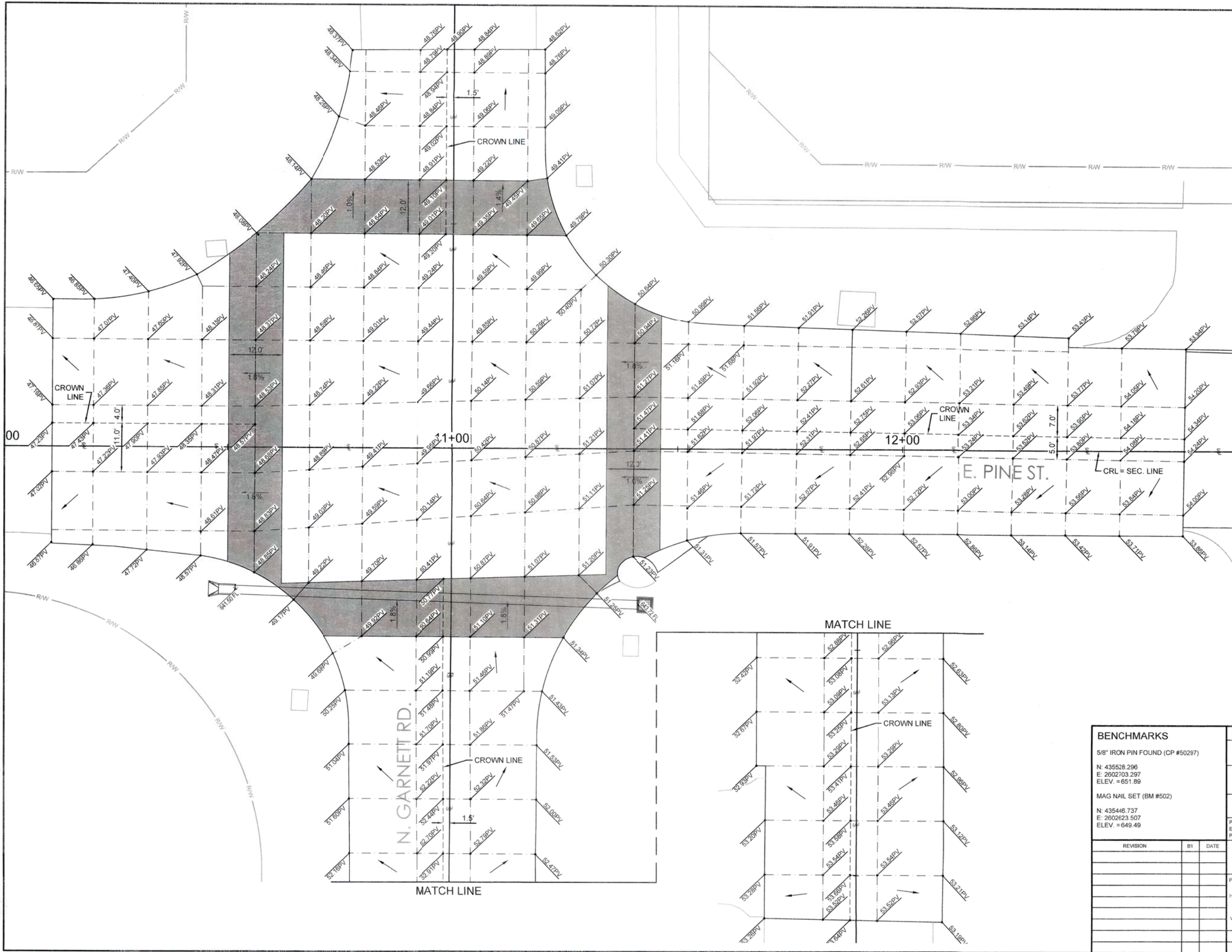
PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1924 SOUTH ULTRA AVE, SUITE 1400  
 TULSA, OK 74106-6846-6400 www.pec.com

**BENCHMARKS**  
 MAG NAIL FOUND (CP #60101)  
 N: 435583.594  
 E: 2607094.623  
 ELEV. = 677.09  
 MAG NAIL SET (BM #506)  
 N: 435557.893  
 E: 2607968.321  
 ELEV. = 678.39

REVISION	BY	DATE

PLAN SCALE:	DRAWN:	CRH:	01/2024	APPROVED:
1" = N/A	DESIGNED:	RJP	11/2024	
	SURVEY:	NJR	07/2023	
PROFILE SCALE:	PROJ. MGR.:	ARK	03/2024	
	LEAD ENGR.:	DP	3/26	
	FIELD MGR.:	Ryan	3/26	
HORIZONTAL:	RECOMMENDED:	HAS	3-26	CITY ENGINEER
1" = N/A	DESIGN MANAGER:	POE		DATE: 4/17/2024
FILE:	DRAWING:			
ATLAS PAGE NO: 229,230				SHEET 20 OF 39 SHEETS

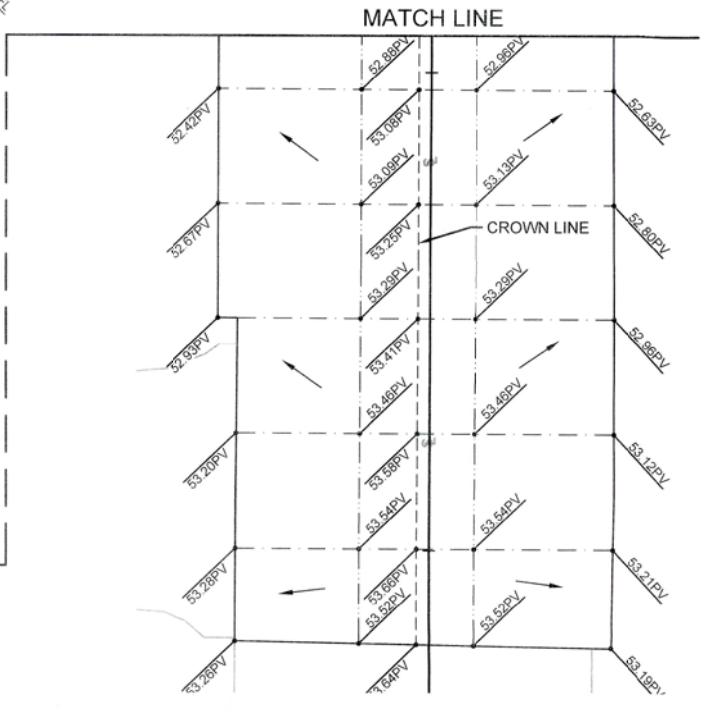
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 DETAILS.DWG



**LEGEND**

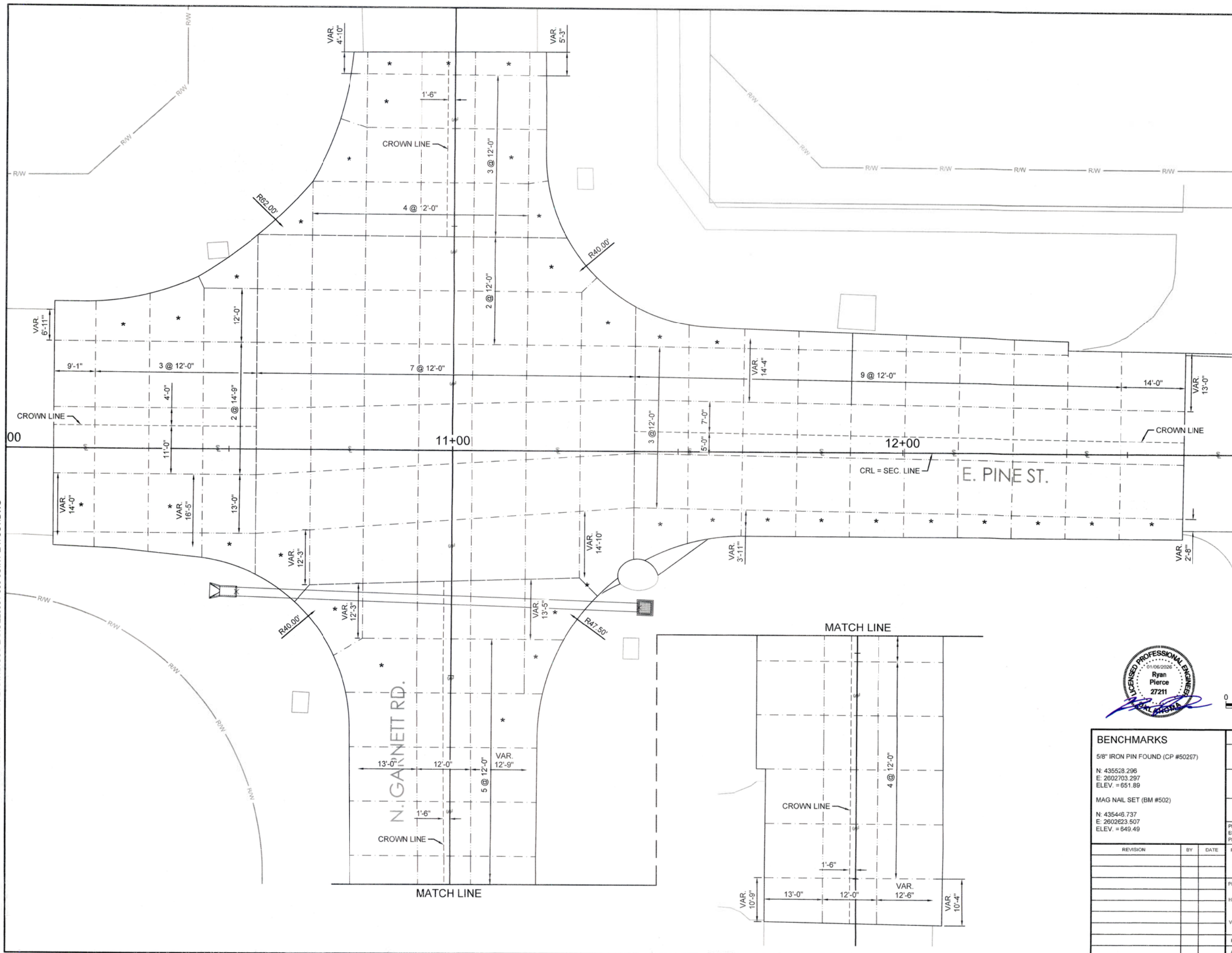
- ADA PATH FOR FUTURE CROSSWALK INSTALLATION (2.0% MAX CROSS-SLOPE)
- TBSC 2' WIDE SHOULDERS
- STD. DOWELED CONTRACTION JOINT (RE: LTU-4-0)
- LONGITUDINAL JOINT TIED (TYPE CC - RE: NOTE 1)
- EXPANSION JOINT (TYPE A)
- CROWN LINE (RE: NOTE 3)
- SLOPE DIRECTION
- TOP PAVEMENT (UNLESS NOTED OTHERWISE)

NOTE 1: LONGITUDINAL JOINTS SHALL BE CITY OF TULSA STANDARD TYPE CC OR ODOT STANDARD LECS-4-1- EXCEPT THAT SMOOTH BARS SHALL BE USED IN LIEU OF DEFORMED BARS. THE BARS SHALL BE SUPPORTED AT EACH END BY AN APPROVED BAR SUPPORT OR PLACED BY AN APPROVED METHOD INTO THE FRESH CONCRETE OR BY AN APPROVED DRILL AND GROUT METHOD INTO THE HARDENED CONCRETE.



BENCHMARKS			INTERSECTION DETAILS				
5/8" IRON PIN FOUND (CP #50297)			PROJECT NO. 2036A0045Z & 2036A0059Z				
N: 435528.296 E: 2602703.297 ELEV. = 651.89			TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53				
MAG NAIL SET (BM #502)			ARTERIAL STREET REHABILITATION				
			EAST PINE STREET				
			GARNETT TO 129TH EAST AVE.				
			CITY OF TULSA, OKLAHOMA				
			PUBLIC WORKS DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY:			PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1924 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-564-5400 www.pec1.com				
REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
			1" = N/A	DESIGNED	RJP	11/2024	 CITY ENGINEER
				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.	ARK	01/2024	
			HORIZONTAL:	LEAD ENGR.	D	1/26	
			VERTICAL:	FIELD MGR.	JM	1/26	
				RECOMMENDED:	HAS	02-26	
				DESIGN MANAGER	ARK		DATE: 4/17/2026
			FILE:	DRAWING:			SHEET 21 OF 39 SHEETS
			ATLAS PAGE NO. 229.230				

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**LEGEND**

	TBSC 2' WIDE SHOULDERS
	STD. DOWELED CONTRACTION JOINT (RE: LTU-4-0)
	LONGITUDINAL JOINT TIED (TYPE CC - RE: NOTE 1)
	EXPANSION JOINT (TYPE A)
	CROWN LINE (RE: NOTE 2)

- \* PANELS SHALL BE REINFORCED WITH WWF, 6x6, W4 X W4, COST TO BE INCLUDED IN OTHER ITEMS OF THE CONTRACT.
- NOTE 1: LONGITUDINAL JOINTS SHALL BE CITY OF TULSA STANDARD TYPE CC OR ODOT STANDARD LECS-4-1- EXCEPT THAT SMOOTH BARS SHALL BE USED IN LIEU OF DEFORMED BARS. THE BARS SHALL BE SUPPORTED AT EACH END BY AN APPROVED BAR SUPPORT OR PLACED BY AN APPROVED METHOD INTO THE FRESH CONCRETE OR BY AN APPROVED DRILL AND GROUT METHOD INTO THE HARDENED CONCRETE.
- NOTE 2: A LONGITUDINAL JOINT ALONG THE CROWN LINE IS NOT REQUIRED. CONTRACTOR HAS THE OPTION OF PLACING A TIED LONGITUDINAL CONTRACTION JOINT AS APPROVED BY THE ENGINEER.
- NOTE 3: JOINTING SHOWN ASSUMES THE PRIMARY DIRECTION THROUGH THE INTERSECTION WILL BE EAST-WEST.
- NOTE 4: CONTRACTION JOINTS SHALL HAVE SMOOTH EPOXY COATED DOWEL BARS PER ODOT STD. LTU-4-0.
- NOTE 5: LONGITUDINAL JOINTS SHALL HAVE SMOOTH EPOXY COATED DOWEL BARS #4 X 30" LONG X 3" SPACING.
- NOTE 6: COST OF WWF REINFORCING SHOWN ON THE PLANS TO BE INCLUDED IN OTHER ITEMS OF THE CONTRACT.



**BENCHMARKS**

5/8" IRON PIN FOUND (CP #50257)  
 N: 435528.296  
 E: 2602703.297  
 ELEV. = 651.89

MAG NAIL SET (BM #502)  
 N: 435448.737  
 E: 2602623.507  
 ELEV. = 649.49

**JOINT LAYOUT PLAN**

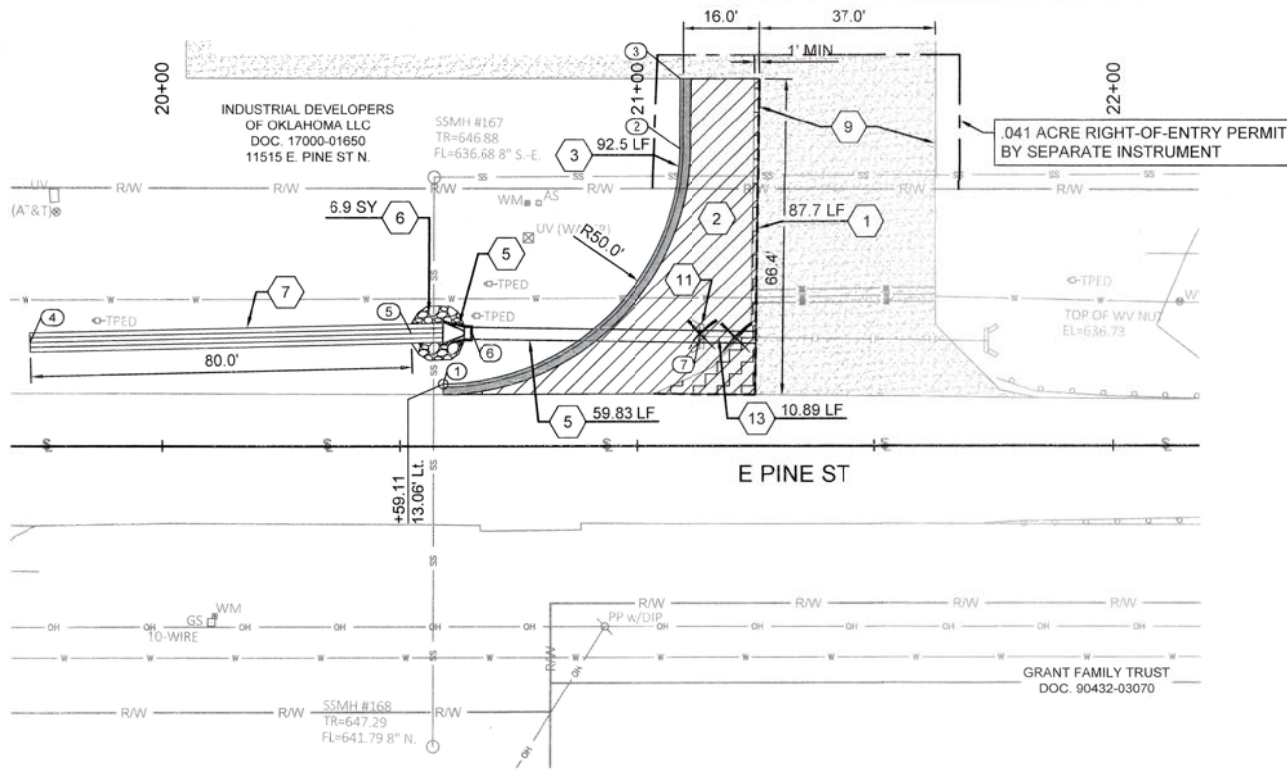
PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53

**ARTERIAL STREET REHABILITATION**  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

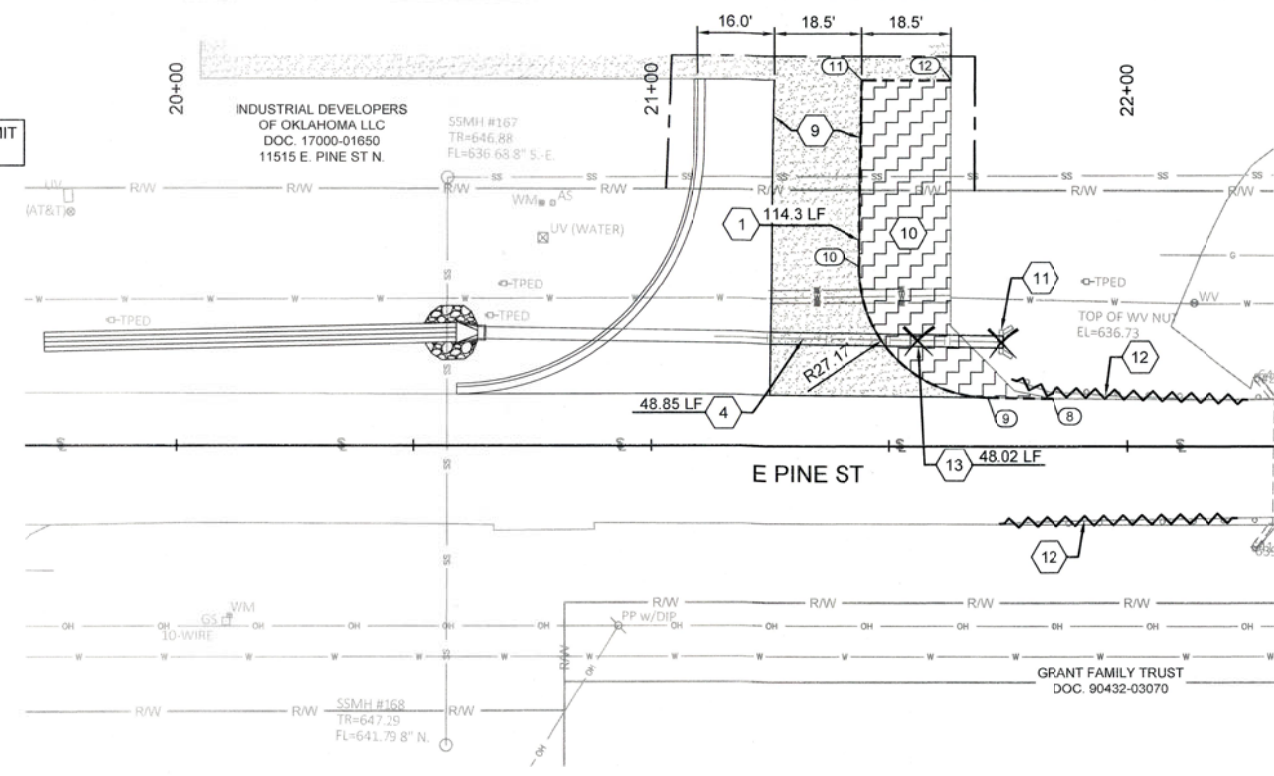
PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1924 SOUTH UTICA AVE., SUITE 1400  
 TULSA, OK 74104 918-464-9400 www.pec1.com

REVISION	BY	DATE	PLAN SCALE:	DRAWN:	KRH	DATE	APPROVED:
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				SURVEY:	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.:	PEC	01/2024	
				LEAD ENGR.:	RJP	1/26	
			HORIZONTAL:	FIELD MGR.:	RJP	1/26	
			VERTICAL:	RECOMMENDED:	RJP	01-26	
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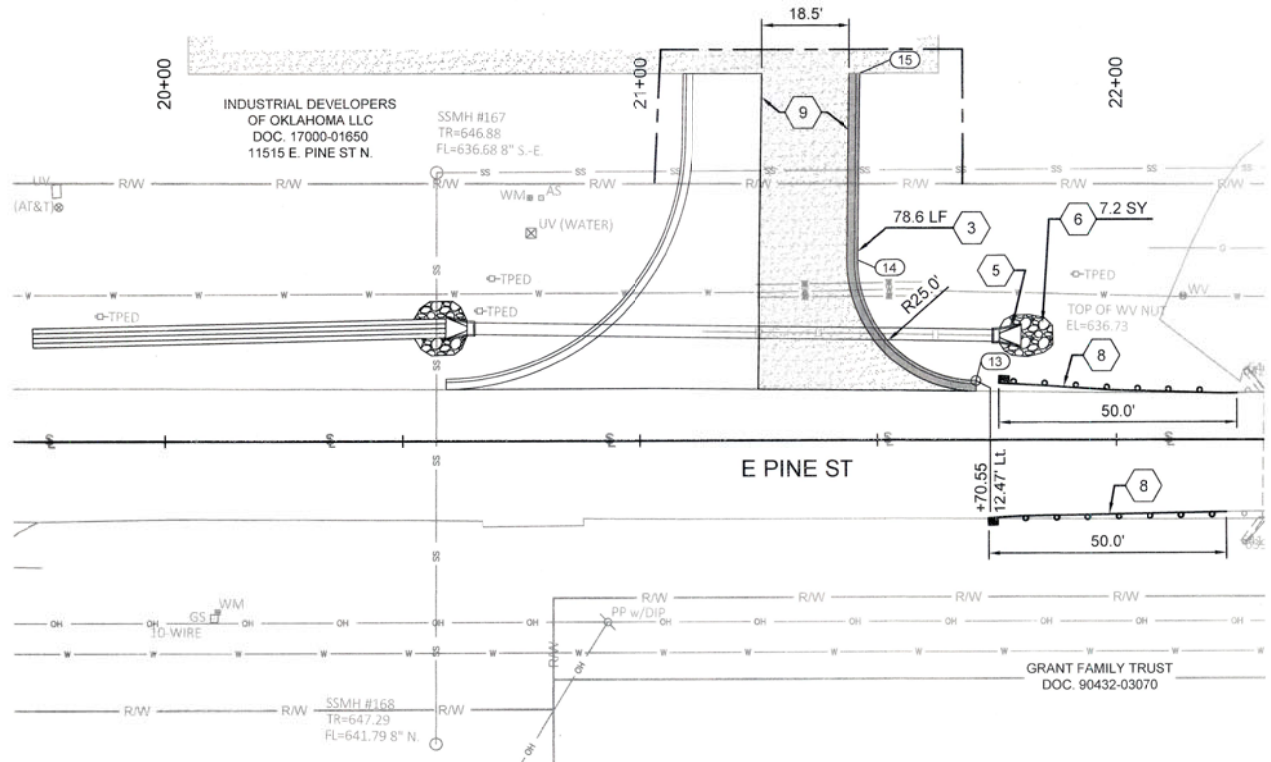
FILE: DRAWING DATE: 4/17/2024  
 ATLAS PAGE NO. 229.230 SHEET 22 OF 39 SHEETS



**COMMERCIAL DRIVEWAY PLAN: PHASE 1**  
E Pine St Sta. 10+44 Lt.

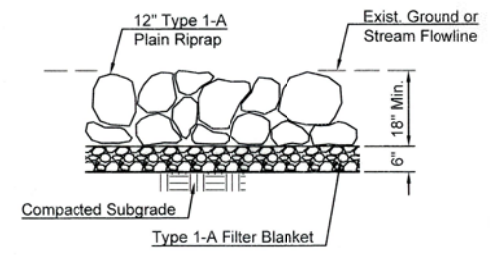


**COMMERCIAL DRIVEWAY PLAN: PHASE 2**  
E Pine St Sta. 10+44 Lt.



**COMMERCIAL DRIVEWAY PLAN: PHASE 3**  
E Pine St Sta. 10+44 Lt.

COORDINATE LIST			
PT #	NORTHING	EASTING	DESC.
1	435,515.8289	2,603,611.6217	BOC
2	435,566.2537	2,603,660.2886	BOC
3	435,581.1175	2,603,660.1571	BOC
4	435,522.3718	2,603,524.7695	END CHAN
5	435,526.1961	2,603,604.6781	BEG CHAN
6	435,526.5684	2,603,617.4747	PCES
7	435,526.9949	2,603,665.5807	BEG PIPE
8	435,515.8894	2,603,736.8876	SAWCUT
9	435,515.7770	2,603,723.0565	SAWCUT
10	435,542.7057	2,603,695.6666	SAWCUT
11	435,581.9637	2,603,695.3191	SAWCUT
12	435,582.4114	2,603,713.9227	SAWCUT
13	435,517.9470	2,603,723.0389	BOC
14	435,542.7249	2,603,697.8365	BOC
15	435,582.0159	2,603,697.4887	BOC

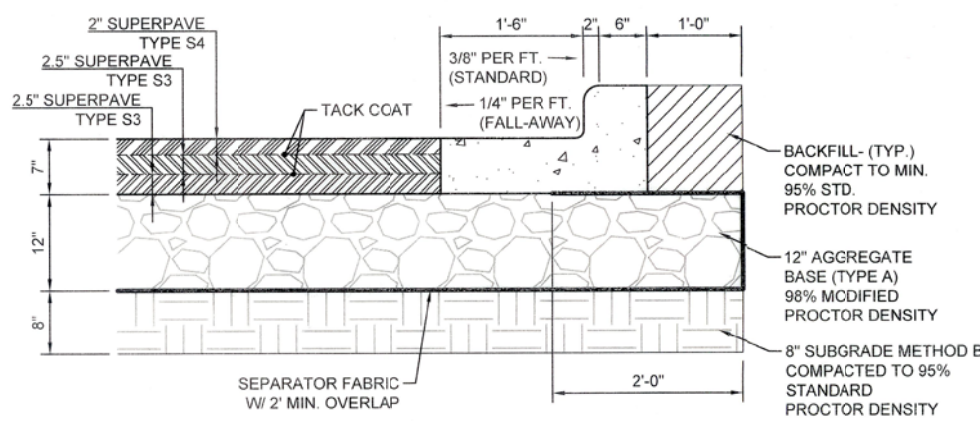


**NOTES:**  
1. Riprap shall be placed below the existing stream level. Any and all protruding stones shall be replaced. Do not place riprap above stream flowline.

**RIPRAP INSTALLATION**

- LEGEND & KEYNOTES**
- PROPOSED ASPHALT DRIVEWAY
  - PAVEMENT DEMOLITION
  - EXISTING DRIVEWAY
  - SAWCUT LINE
  - PROPOSED CONC. CURB & GUTTER
- 1 SAWCUT
  - 2 PROPOSED ASPHALT DRIVE
  - 3 PROPOSED CONCRETE CURB AND GUTTER
  - 4 PROPOSED 30" CORRUGATED POLYPROPYLENE PIPE
  - 5 PROPOSED 30" PCES
  - 6 PROPOSED 12" RIPRAP
  - 7 CONCRETE DITCH LINER PROTECTION (DES. NO. 1 ODOT DC-4-1 R-69)
  - 8 PROPOSED GUARDRAIL REPLACEMENT
  - 9 EXISTING PAVEMENT TO REMAIN FOR DURATION OF CONSTRUCTION PHASE
  - 10 REMOVE EXISTING DRIVEWAY PAVEMENT
  - 11 REMOVE EXISTING STORM HEADWALL
  - 12 REMOVE EXISTING GUARDRAIL
  - 13 REMOVE EXISTING PIPE

- NOTES TO CONTRACTOR:**
- DRIVEWAY TO REMAIN OPEN TO TRUCK TRAFFIC THROUGHOUT ALL PHASES OF CONSTRUCTION.
  - CONTRACTOR TO MATCH EXISTING PAVEMENT ELEVATIONS. MATCH CROSS-SLOPE OF EXISTING DRIVE THROUGH NEW DRIVE AREA, AND MAINTAIN POSITIVE DRAINAGE THROUGH CULVERT AND DITCH.
  - PROTECT EXISTING UTILITIES AND APPURTENANCES IN PLACE. VERIFY LOCATIONS AND DEPTHS PRIOR TO BEGINNING OF CONSTRUCTION.



**COMMERCIAL DRIVE SECTION W/ CURB & GUTTER**  
SCALE: NTS

**BENCHMARKS**

5/8" IRCN PIN FOUND (CP #50297)

N: 435528.296  
E: 2602703.297  
ELEV. = 651.89

MAG NAIL SET (BM #503)

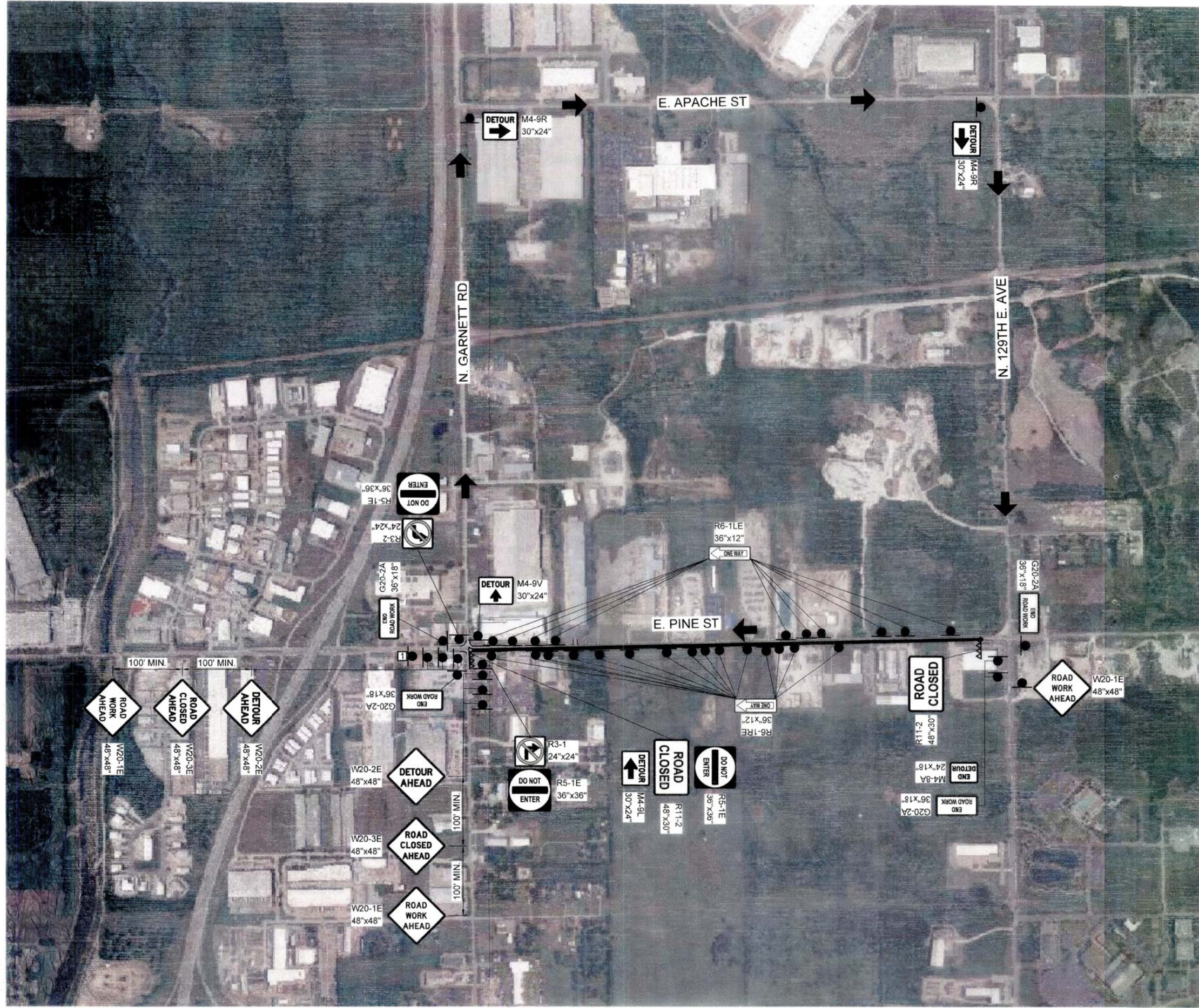
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E: 2603936.2046  
ELEV. = 646.28

PHASED DRIVEWAY DETAIL			
PROJECT NO. 2036A0045Z & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION			
EAST PINE STREET			
GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:	<b>PEC</b> PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1004 SOUTH UTICA AVE., SUITE 1400 TULSA, OK 74106-9166-5400 www.pec.com		
REVISION	BY	DATE	APPROVED:
1" = N/A	DRAWN	KRH 01/2024	 RYAN PIERCE CITY ENGINEER
	DESIGNED	RJP 11/2024	
	SURVEY	NJR 07/2023	
PROFILE SCALE:	PROJ. MGR.	ARK 07/2023	
HORIZONTAL: 1" = N/A	LEAD ENGR.	1/26	
	FIELD MGR.	1/26	
VERTICAL: 1" = N/A	RECOMMENDED:		
	DESIGN MANAGER	1/26	
FILE:	DRAWING:		DATE: 1/17/2024
ATLAS PAGE NO. 229.230			SHEET 23 OF 39 SHEETS

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 \\PEC1\COMPECT\TWHICHTA-CIVIL\2022\220961\000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-DRIVE  
 DETAILS.DWG



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 \\PEC1\COMPNET\WICHITA-CIVIL\2022\220961\1000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-DETOUR MAP  
 PHASE 1 AND 2.DWG



PHASE 1 AND 2: TRAFFIC TO BE ONE-WAY WESTBOUND

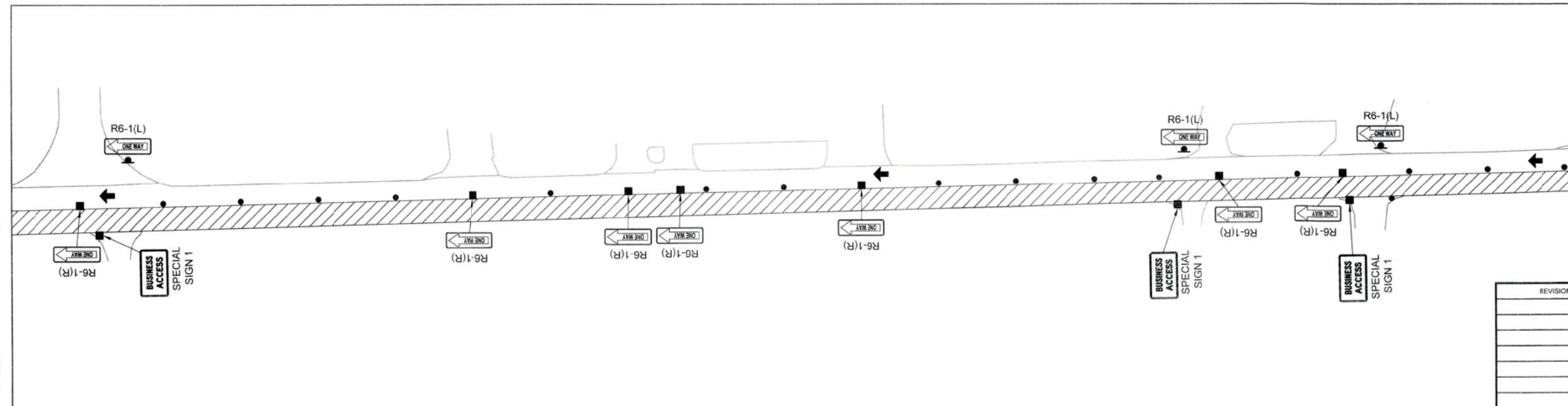
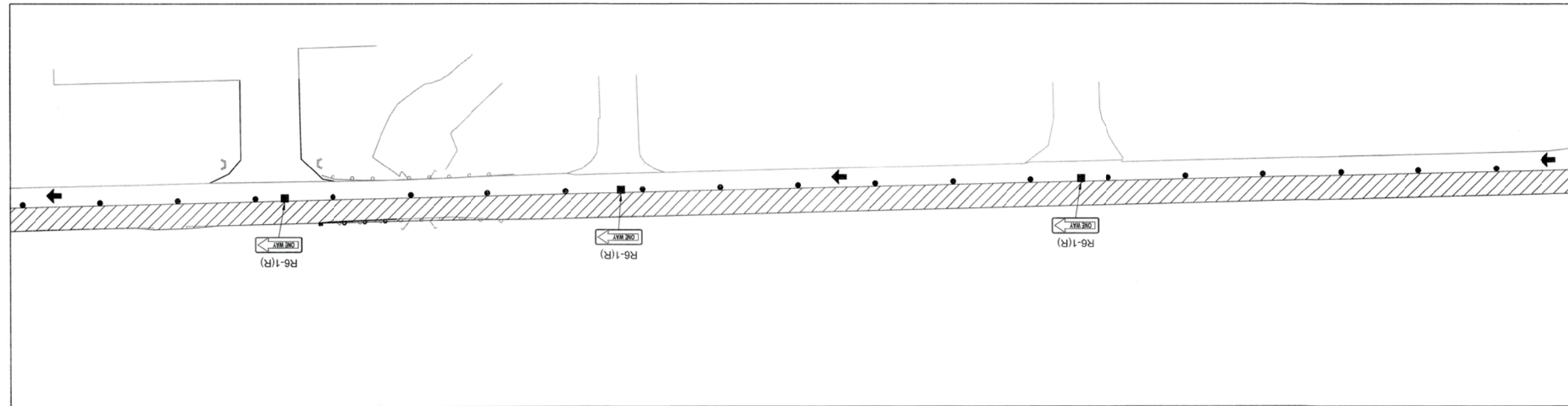
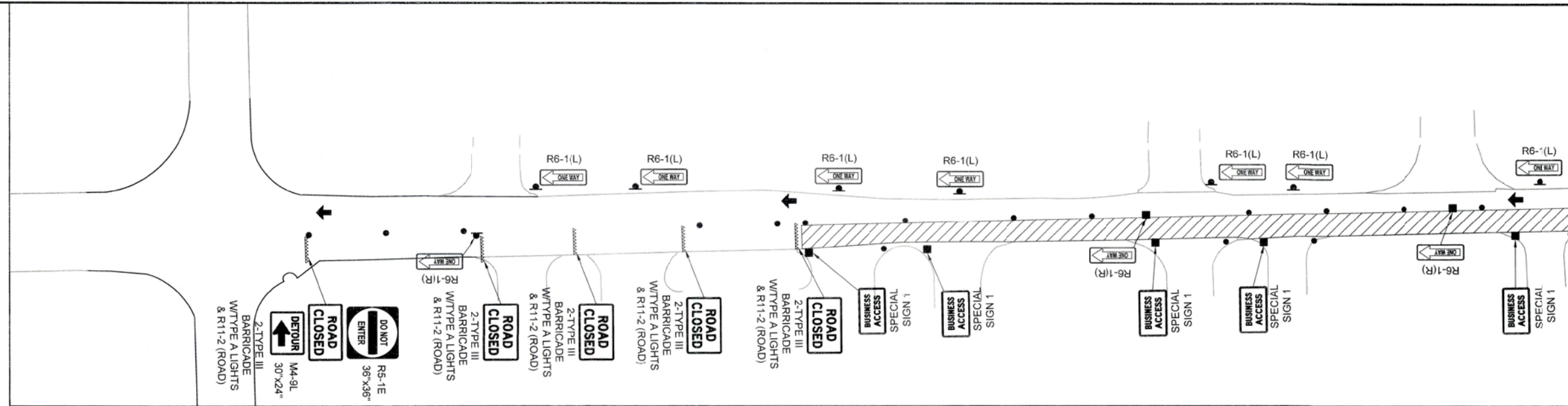
**LEGEND**

- ▲▲▲ TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
- SIGN MOUNT
- 1 PLACE "PROGRESS AS PROMISED" SIGN



<b>DETOUR MAP PHASE 1 AND 2</b>			
PROJECT NO. 2036A0045Z & 2036A0059Z TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE. CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1924 SOUTH UTICA AVE., SUITE 1402 TULSA, OK 74104 918-664-5405 www.pec.com	
REVISION	BY	DATE	APPROVED:
PLAN SCALE:	DRAWN	KRH	01/2024
1" = N/A	DESIGNED	RJP	11/2024
	SURVEY	NJR	07/2023
PROFILE SCALE:	PROJ. MGR.	RES.	01/2024
HORIZONTAL:	LEAD ENGR.	LD	1/26
1" = N/A	FIELD MGR.	SM	1/26
VERTICAL:	RECOMMENDED:	RES.	02/24
1" = N/A	DESIGN MANAGER	RES.	1/26
FILE:	DRAWING:	DATE:	4/17/2024
ATLAS PAGE NO. 229,230		SHEET 24 OF 39	SHEETS

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 \\PEC1\COMP\PECNET\WCHITA-CIVIL\2022\220961000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-TRAFFIC CONTROL  
 PHASE 1.DWG



- LEGEND**
- CONSTRUCTED THIS PHASE
  - COMPLETED CONSTRUCTION
  - CHANNELIZING DEVICES AT
    - 50' TANGENT SPACING
    - 25' TAPER SPACING
  - DRUM WITH TRAFFIC SIGN
  - TRAFFIC CONTROL SIGN AS NOTED
  - TYPE III BARRICADE WITH TYPE A LIGHT (X2)
  - DIRECTION OF TRAFFIC

**CONSTRUCTION SEQUENCING NOTES**

ALL STREETS ARE TO REMAIN OPEN TO LOCAL TRAFFIC DURING CONSTRUCTION. CONTRACTOR SHALL CLOSE ONE DIRECTION OF TRAVEL WITH 1-WAY OPERATION FOR LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

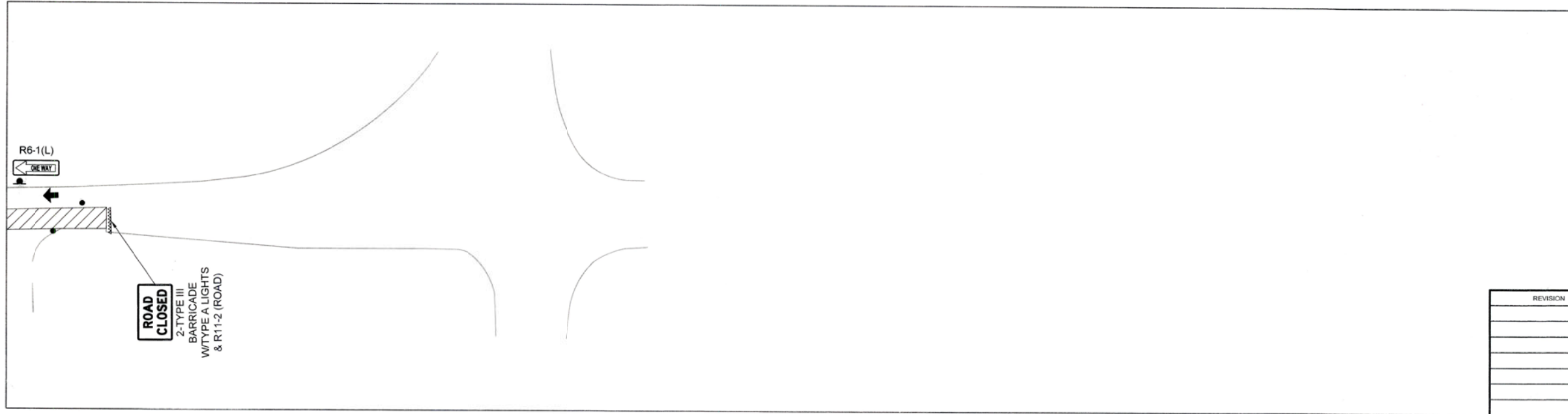
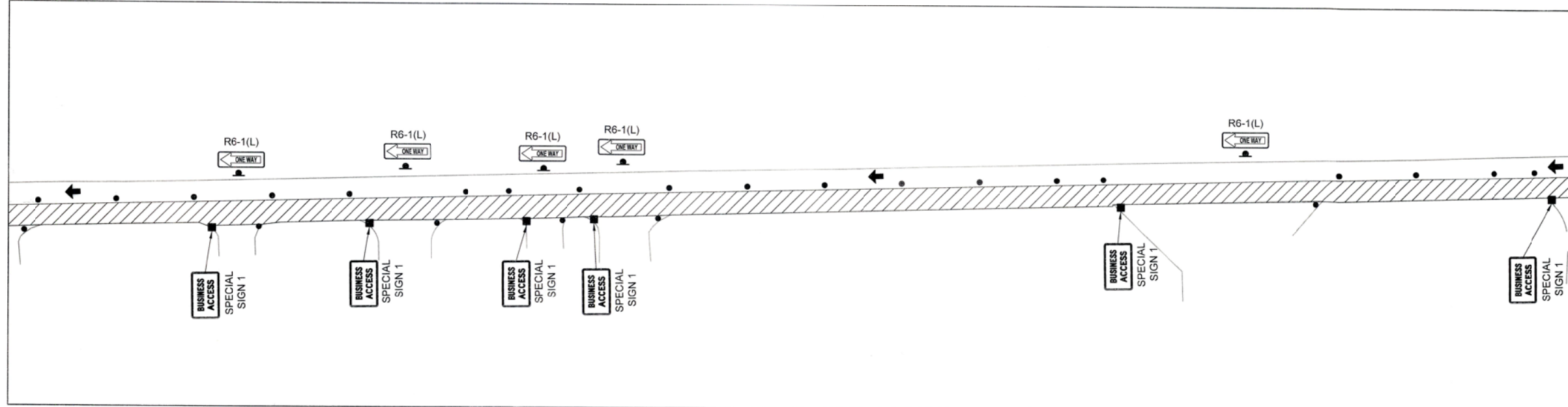
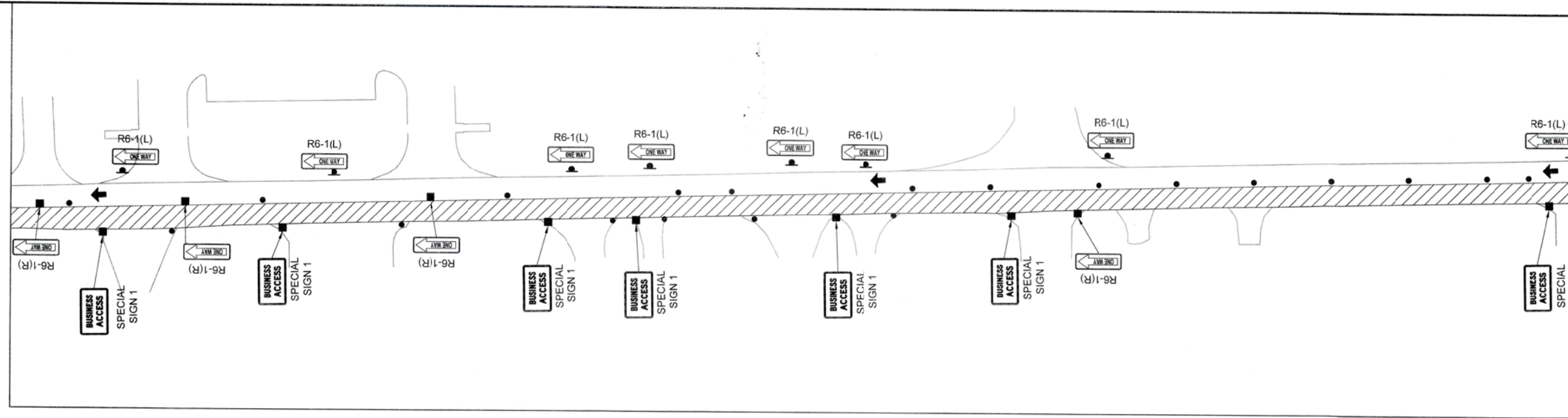
COORDINATE DRIVEWAY CONSTRUCTION AND OTHER CONSTRUCTION WITH THE PROPERTY OWNERS, RESIDENTS, AND THE CITY OF TULSA.



REVISION		BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
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					SURVEY	NJR	07/2023	
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				HORIZONTAL:	LEAD ENGR.	DJ	1/26	
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				VERTICAL:	RECOMMENDED:			
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				FILE:	DRAWING:			DATE: 4/17/2024
				ATLAS PAGE NO:	229,230			SHEET 25 OF 39 SHEETS

**TRAFFIC CONTROL PHASE 1**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
 ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

SAVED 11/26/2024 3:09:15 PM BY RYAN PIERCE  
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 \\PEC1\COM\PECNET\WICHITA-CIVIL\2022\220961\000\MUNI-TRANSDRAWINGS\PLANS\220961-000-TRAFFIC CONTROL  
 PHASE 1.DWG



- LEGEND**
- CONSTRUCTED THIS PHASE
  - COMPLETED CONSTRUCTION
  - CHANNELIZING DEVICES AT
    - 50' TANGENT SPACING
    - 25' TAPER SPACING
  - DRUM WITH TRAFFIC SIGN
  - TRAFFIC CONTROL SIGN AS NOTED
  - TYPE III BARRICADE WITH TYPE A LIGHT (X2)
  - DIRECTION OF TRAFFIC

**CONSTRUCTION SEQUENCING NOTES**

ALL STREETS ARE TO REMAIN OPEN TO LOCAL TRAFFIC DURING CONSTRUCTION. CONTRACTOR SHALL CLOSE ONE DIRECTION OF TRAVEL WITH 1-WAY OPERATION FOR LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

COORDINATE DRIVEWAY CONSTRUCTION AND OTHER CONSTRUCTION WITH THE PROPERTY OWNERS, RESIDENTS, AND THE CITY OF TULSA.

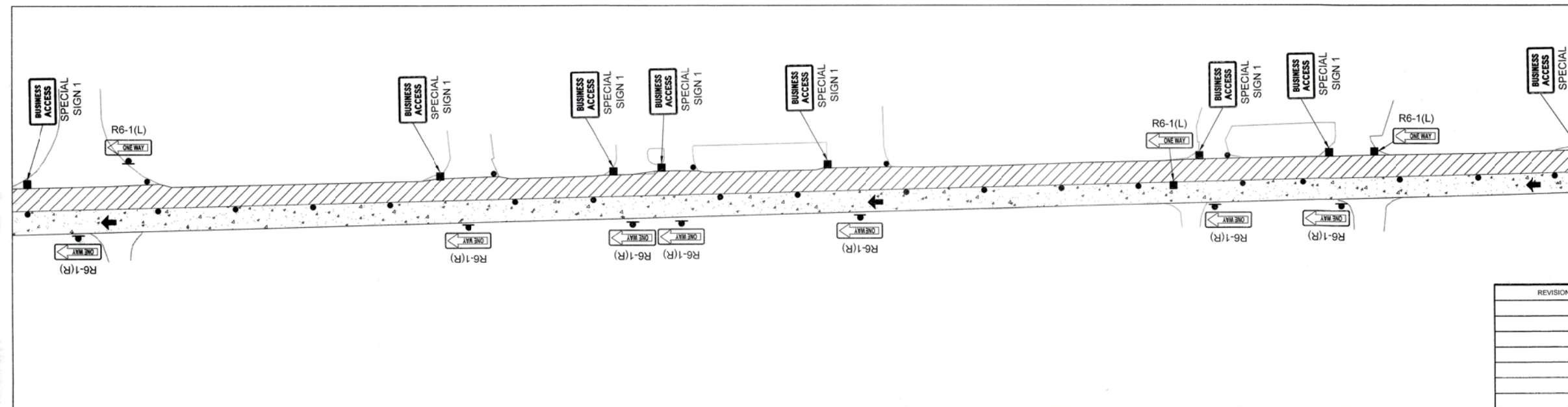
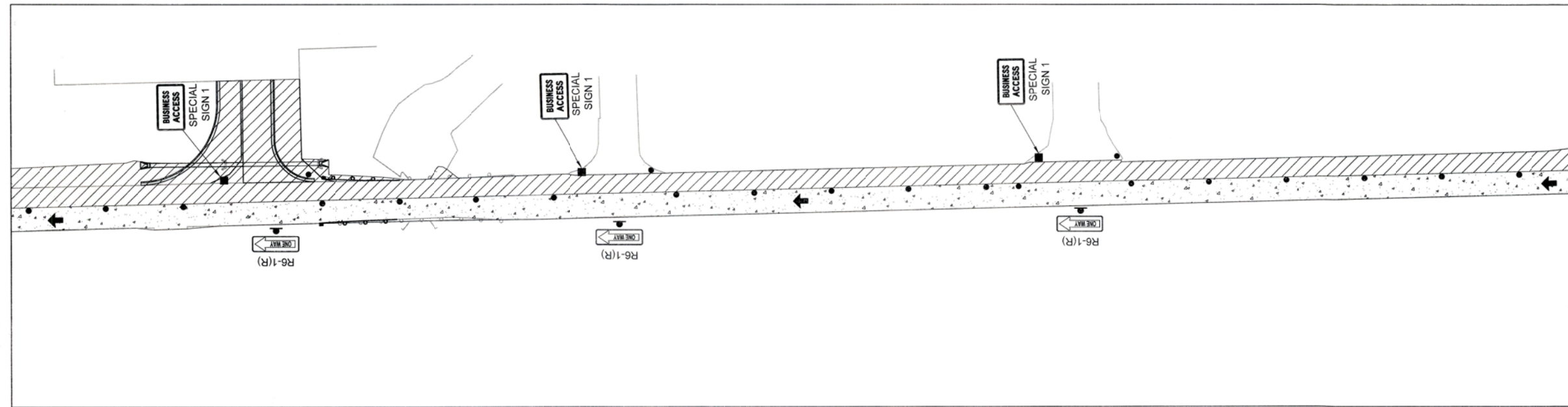
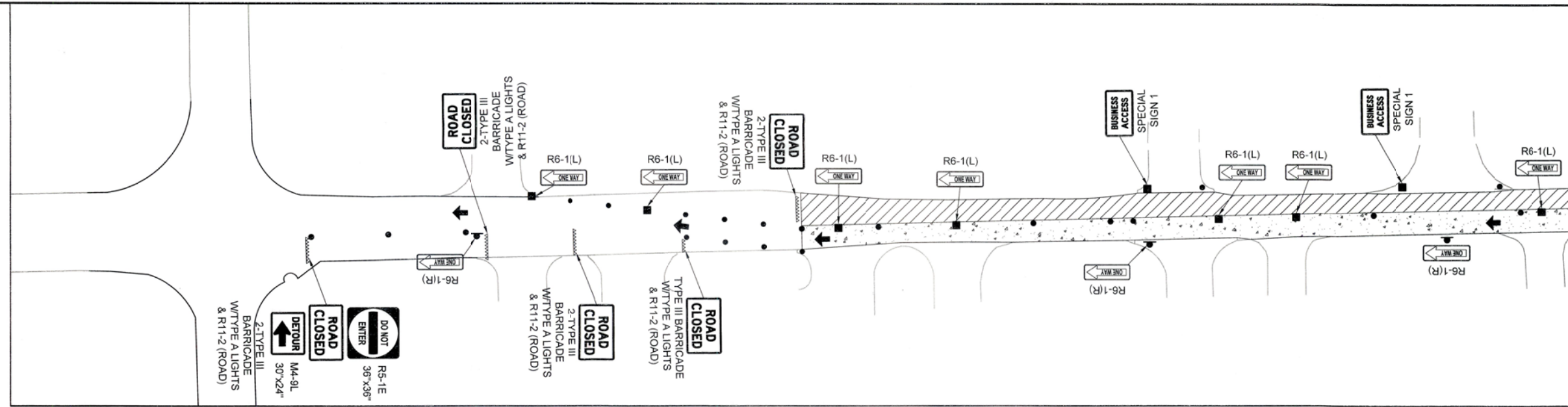


**TRAFFIC CONTROL PHASE 1**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
 ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1924 SOUTH UTICA AVE., SUITE 1400  
 TULSA, OK 74104 918-466-5400 www.pec1.com

REVISION	BY	DATE	PLAN SCALE:	DRAWN:	ASB	01/20/24	APPROVED:
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				SURVEY:	TLS	07/20/23	
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			HORIZONTAL:	LEAD ENGR.	1/26		
			VERTICAL:	FIELD MGR.	1/26		
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			FILE:	DRAWING:			DATE: 4/17/2026
			ATLAS PAGE NO. 229.230				SHEET 26 OF 39 SHEETS

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 \PEPC1\COMPNET\WICHITA-CIVIL\2022\220961000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-TRAFFIC CONTROL  
 PHASE 2.DWG



- LEGEND**
- CONSTRUCTED THIS PHASE
  - COMPLETED CONSTRUCTION
  - CHANNELIZING DEVICES AT
    - 50' TANGENT SPACING
    - 25' TAPER SPACING
  - DRUM WITH TRAFFIC SIGN
  - TRAFFIC CONTROL SIGN AS NOTED
  - TYPE III BARRICADE WITH TYPE A LIGHT (X2)
  - DIRECTION OF TRAFFIC

**CONSTRUCTION SEQUENCING NOTES**

ALL STREETS ARE TO REMAIN OPEN TO LOCAL TRAFFIC DURING CONSTRUCTION. CONTRACTOR SHALL CLOSE ONE DIRECTION OF TRAVEL WITH 1-WAY OPERATION FOR LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

COORDINATE DRIVEWAY CONSTRUCTION AND OTHER CONSTRUCTION WITH THE PROPERTY OWNERS, RESIDENTS, AND THE CITY OF TULSA.

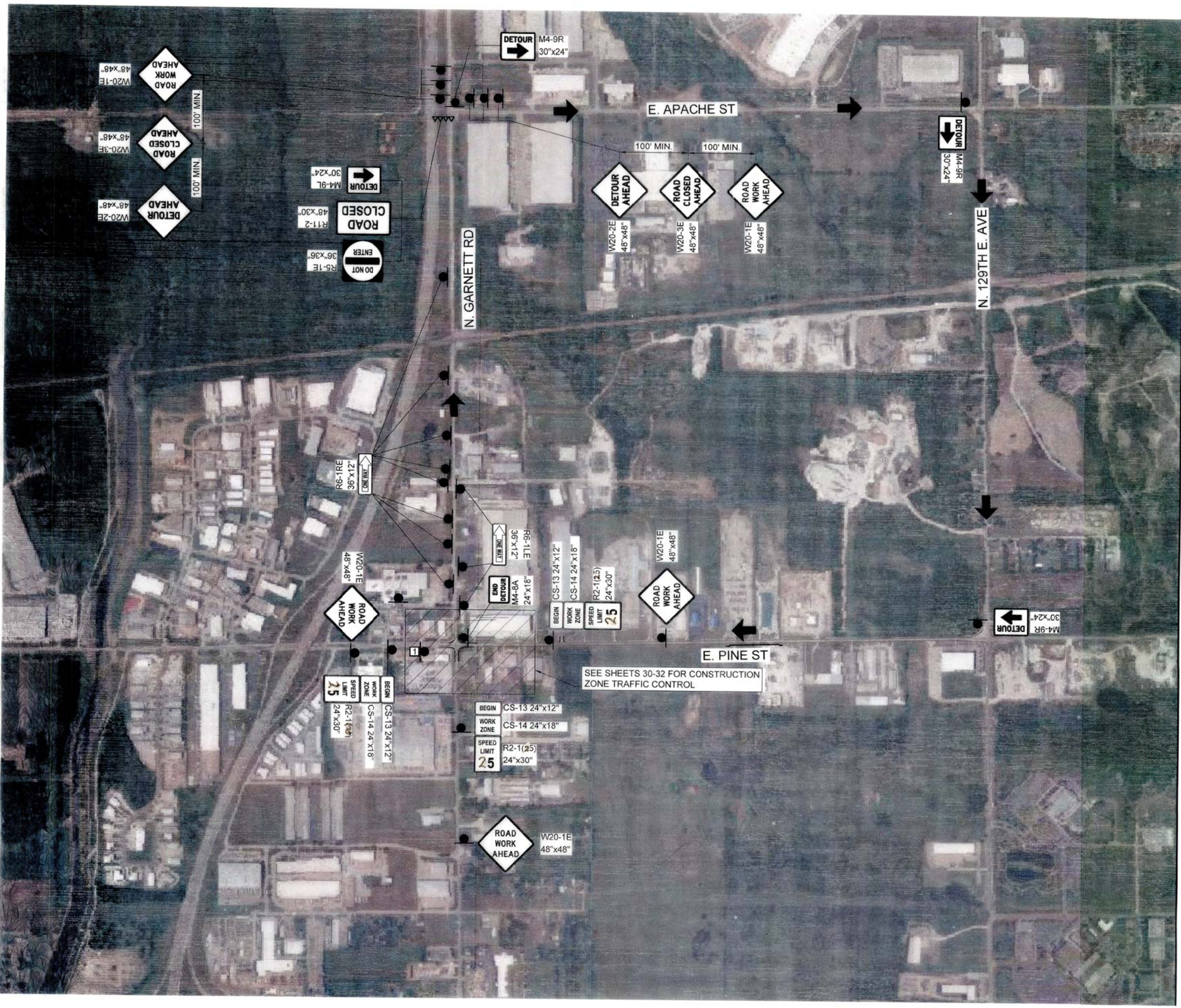


TRAFFIC CONTROL PHASE 2			
PROJECT NO. 2036A0045Z & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1904 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-664-5400 www.pec1.com	APPROVED:
PLAN SCALE:	DRAWN: KRH	01/2024	CITY ENGINEER:
DESIGNED: RJP	11/2024		
SURVEY: NJR	07/2023		
PROFILE SCALE:	PROJ. MGR.		
HORIZONTAL:	LEAD ENGR.	1/20	
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FILE:	DRAWING:		DATE: 1/7/2026
ATLAS PAGE NO. 229,230			SHEET 27 OF 39 SHEETS

REVISION	BY	DATE



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 \\PEC1.COM\PECNET\WICHITA-CIVIL\2022\220961\1000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-DETOUR MAP  
 PHASE 3.DWG



PHASES 3-5: SOUTHBOUND TO BE CLOSED AND ONE-WAY FOR NORTHBOUND, AND MAINTAIN EAST AND WESTBOUND TRAFFIC.

- LEGEND**
- ▲▲▲ TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
  - SIGN MOUNT
  - PLACE "PROGRESS AS PROMISED" SIGN



**DETOUR MAP PHASES 3-5**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
 ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1824 SOUTH ULTICA AVE., SUITE 1400  
 TULSA, OK 74104 918-454-9400 www.pec.com

REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
			1" = N/A	DESIGNED	RJP	11/2024	 RYAN PIERCE CITY ENGINEER
				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.	pec	01/26	
			HORIZONTAL:	LEAD ENGR.	pec	1/26	
			VERTICAL:	FIELD MGR.	pec	1/26	
			1" = N/A	RECOMMENDED:	pec	02-210	
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			ATLAS PAGE NO. 229.230	DRAWING:			DATE 4/17/2026
							SHEET 29 OF 39 SHEETS

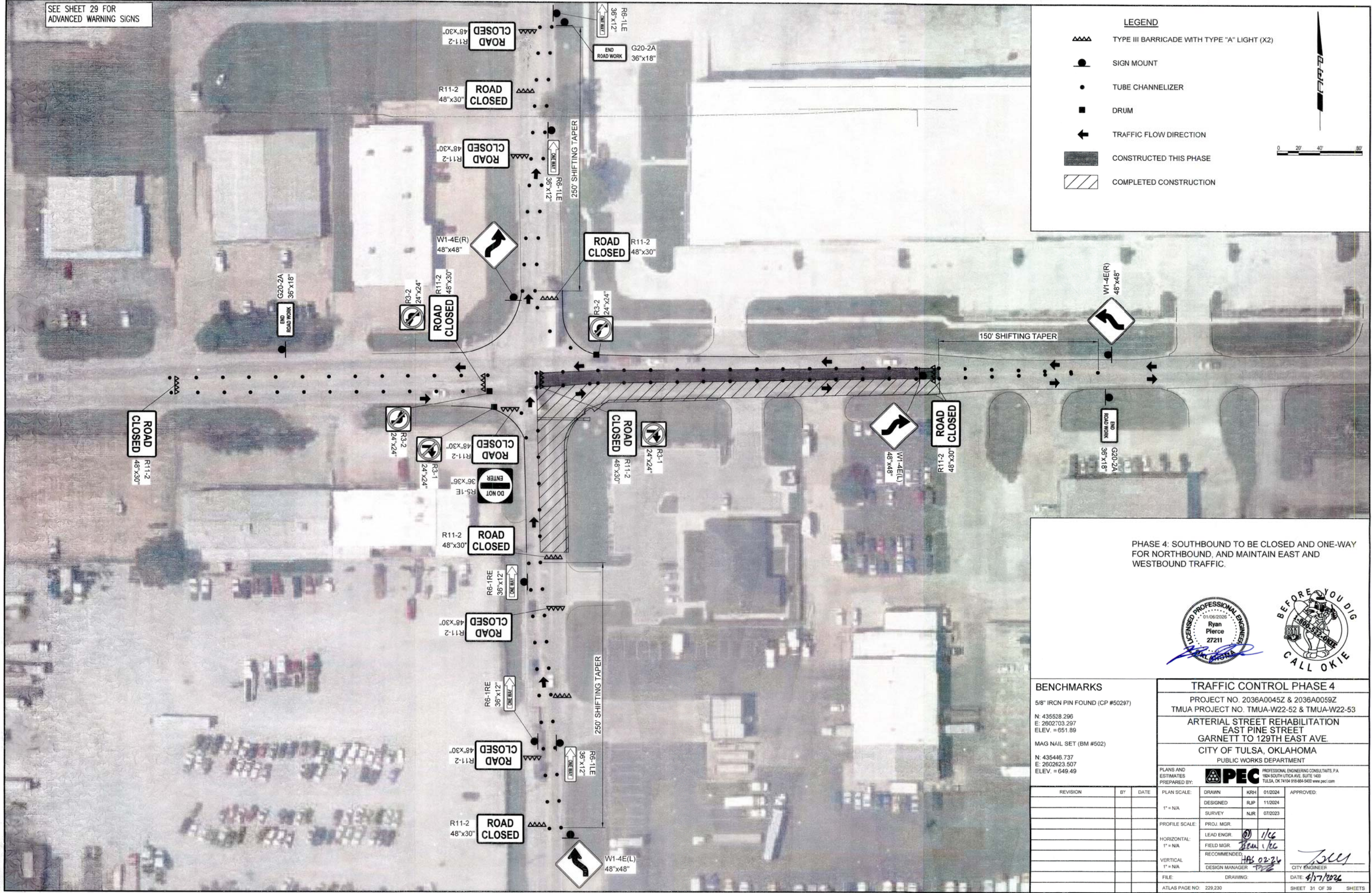


SEE SHEET 29 FOR  
ADVANCED WARNING SIGNS

**LEGEND**

- TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
- SIGN MOUNT
- TUBE CHANNELIZER
- DRUM
- TRAFFIC FLOW DIRECTION
- CONSTRUCTED THIS PHASE
- COMPLETED CONSTRUCTION

0 20' 40' 80'



PHASE 4: SOUTHBOUND TO BE CLOSED AND ONE-WAY FOR NORTHBOUND, AND MAINTAIN EAST AND WESTBOUND TRAFFIC.

BENCHMARKS			TRAFFIC CONTROL PHASE 4				
5/8" IRCN PIN FOUND (CP #50297)			PROJECT NO. 2036A0045Z & 2036A0059Z				
N: 435528.296 E: 2602703.297 ELEV. = 651.89			TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53				
MAG NAIL SET (BM #502)			ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.				
N: 435446.737 E: 2602623.507 ELEV. = 649.49			CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY:			PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1824 SOUTH ULTRA AVE. SUITE 1400 TULSA, OK 74104 918-464-5400 www.pec.com				
REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
			1" = N/A	DESIGNED	RJP	11/2024	CITY ENGINEER DATE: 4/17/2024
				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.		1/16	
			1" = N/A	FIELD MGR.		1/16	
			VERTICAL:	RECOMMENDED		HAS 02-26	
			1" = N/A	DESIGN MANAGER			
			FILE:	DRAWING:			
			ATLAS PAGE NO: 229.230				SHEET 31 OF 39 SHEETS

SAVED 10/24/2025 1:45:49 PM BY RYAN PIERCE  
 PLOTTED 10/24/2025 10:31:33 AM BY RYAN PIERCE  
 IPEC1:COMPECNETWICHITA-CIVIL\2022\20961\000\MUNI-TRANSDRAWINGS\PLANS\20961-TRAFFIC CONTROL PHASE 4.DWG

SEE SHEET 29 FOR  
ADVANCED WARNING SIGNS

**LEGEND**

- ▲▲▲ TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
- SIGN MOUNT
- TUBE CHANNELIZER
- DRUM
- ← TRAFFIC FLOW DIRECTION
- CONSTRUCTED THIS PHASE
- ▨ COMPLETED CONSTRUCTION

0 20' 40' 80'



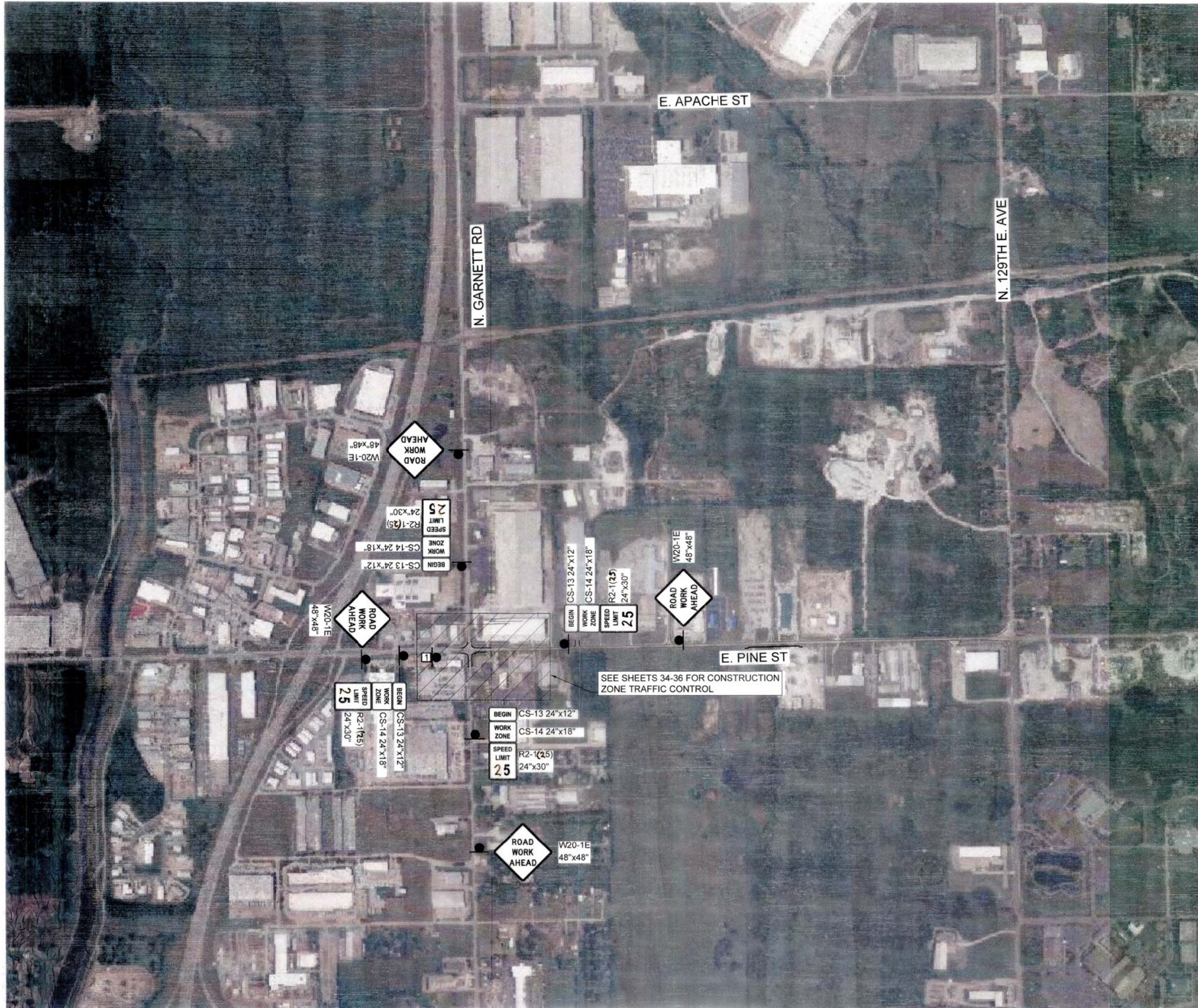
PHASE 5: SOUTHBOUND TO BE CLOSED AND ONE-WAY FOR NORTHBOUND, AND MAINTAIN EAST AND WESTBOUND TRAFFIC.



BENCHMARKS		TRAFFIC CONTROL PHASE 5					
5/8" IRON PIN FOUND (CP #50297)		PROJECT NO. 2036A0045Z & 2036A0059Z					
N: 435528.296 E: 2602703.297 ELEV. = 951.89		TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53					
MAG NAIL SET (BM #502)		ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.					
N: 435446.737 E: 2602623.507 ELEV. = 949.49		CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT					
PLANS AND ESTIMATES PREPARED BY: <b>PEC</b>		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1924 SOUTH UTICA AVE, SUITE 1400 TULSA, OK 74104 918-664-5400 www.pec1.com					
REVISION	BY	DATE	PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
			1" = N/A	DESIGNED	RJP	11/2024	 CITY ENGINEER DATE: 4/17/2026
				SURVEY	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.		1/66	
			VERTICAL:	FIELD MGR.		1/66	
				RECOMMENDED		1/66	
				DESIGN MANAGER		1/66	
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		ATLAS PAGE NO. 229.230	SHEET 32 OF 39 SHEETS				

SAVED 10/24/2025 1:45:22 PM BY RYAN PIERCE  
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 PHASE 5.DWG

SAVED 11/26/2024 3:10:59 PM BY RYAN PIERCE  
 PLOTTED 11/26/2024 10:33:15 AM BY RYAN PIERCE  
 WPECT1.COM\PECNET\WICHITA-CIVIL\2022\220961000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-DETOUR MAP  
 PHASE 3.DWG



PHASES 3-5: SOUTHBOUND TO BE CLOSED AND ONE-WAY FOR NORTHBOUND, AND MAINTAIN EAST AND WESTBOUND TRAFFIC.

**LEGEND**

- ▲▲▲ TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
- SIGN MOUNT
- PLACE "PROGRESS AS PROMISED" SIGN



**DETOUR MAP PHASES 6-8**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
 ARTERIAL STREET REHABILITATION  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **PEC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1624 SOUTH ULTRA AVE. SUITE 1400  
 TULSA, OK 74104 918-686-5400 www.pec1.com

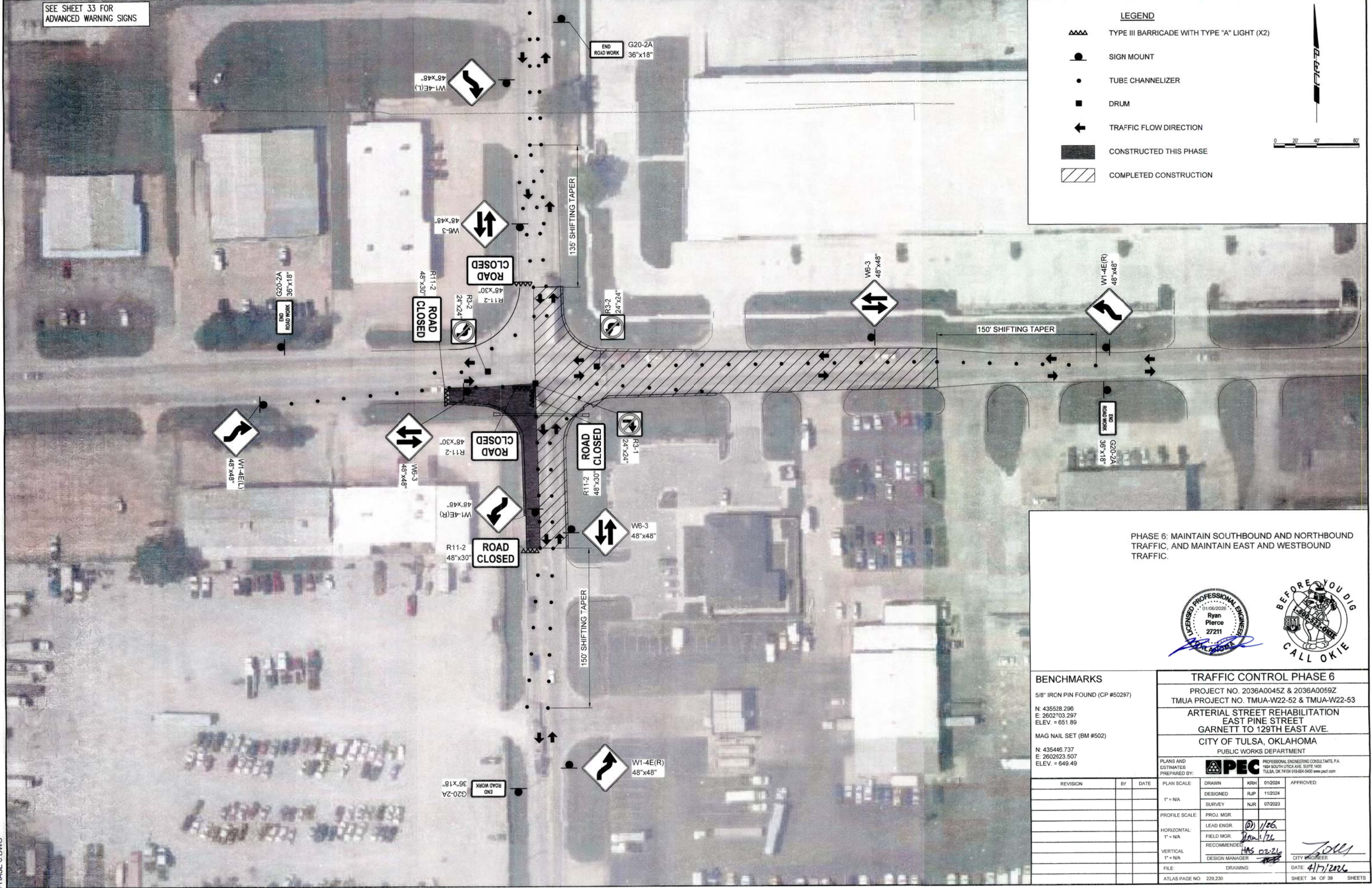
REVISION	BY	DATE	PLAN SCALE:	DRAWN:	KRH	01/2024	APPROVED:
			1" = N/A	DESIGNED:	RLP	11/2024	 CITY ENGINEER
				SURVEY:	NJR	07/2023	
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.			
			1" = N/A	FIELD MGR.			
			VERTICAL:	RECOMMENDED:			
			1" = N/A	DESIGN MANAGER			
			FILE:	DRAWING:			DATE: 4/17/2024
			ATLAS PAGE NO. 229.230				SHEET 33 OF 39 SHEETS

SEE SHEET 33 FOR  
ADVANCED WARNING SIGNS

**LEGEND**

- ▲▲▲ TYPE III BARRICADE WITH TYPE "A" LIGHT (X2)
- SIGN MOUNT
- TUBE CHANNELIZER
- DRUM
- ← TRAFFIC FLOW DIRECTION
- CONSTRUCTED THIS PHASE
- ▨ COMPLETED CONSTRUCTION

0 20' 40' 80'



PHASE 6: MAINTAIN SOUTHBOUND AND NORTHBOUND TRAFFIC, AND MAINTAIN EAST AND WESTBOUND TRAFFIC.



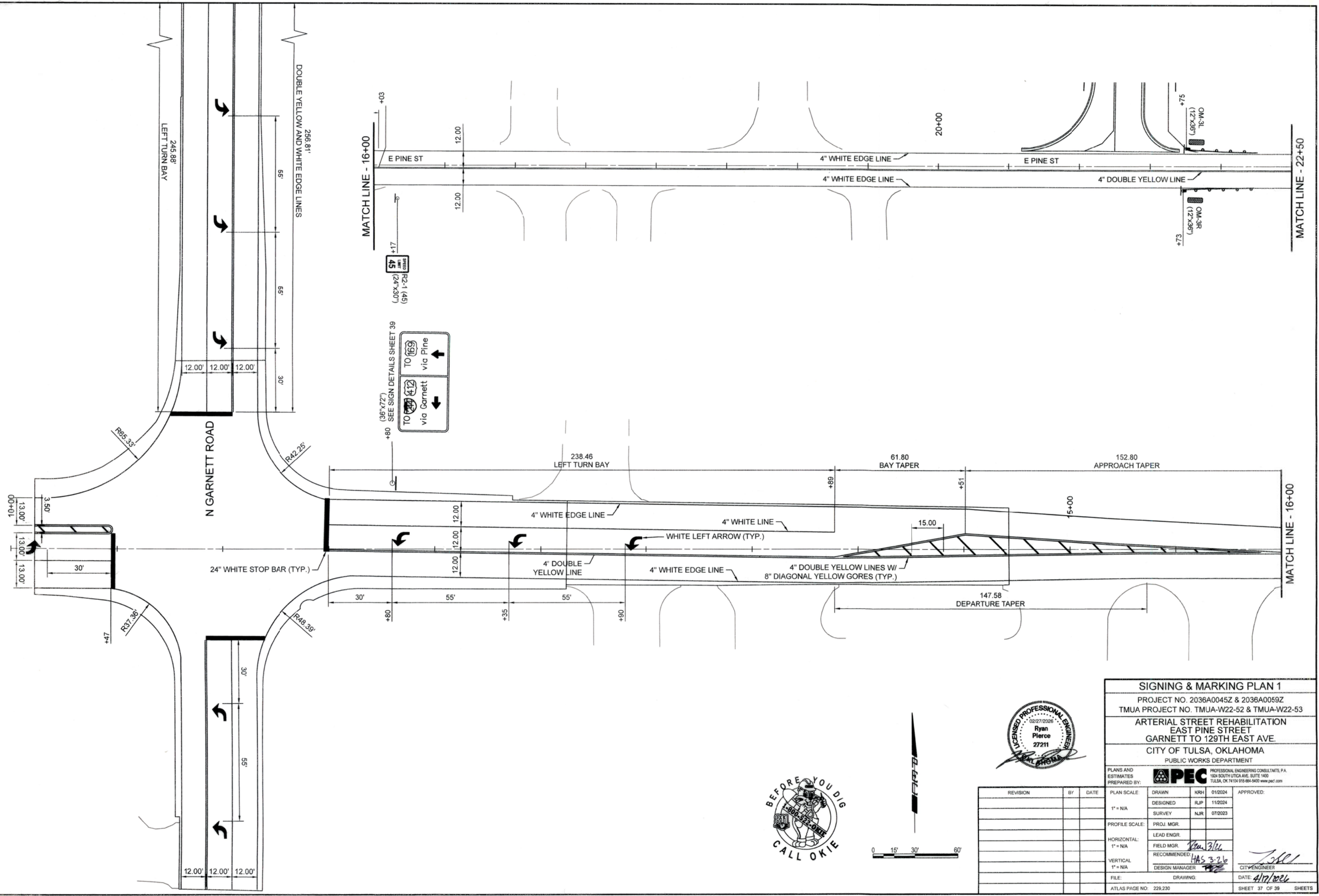
BENCHMARKS		TRAFFIC CONTROL PHASE 6	
5/8" IRON PIN FOUND (CP #50297)		PROJECT NO. 2036A0045Z & 2036A0059Z	
N: 435528.296 E: 2602703.297 ELEV. = 651.89		TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53	
MAG NAIL SET (BM #502)		ARTERIAL STREET REHABILITATION EAST PINE STREET GARNETT TO 129TH EAST AVE.	
N: 435446.737 E: 2602523.507 ELEV. = 649.49		CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY:	<b>PEC</b>	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1904 SOUTH UTICA AVE. SUITE 1400 TULSA, OK 74104 918-664-5400 www.pec.com	APPROVED:
REVISION	BY	DATE	DATE
			11/2024
			07/2023
PLAN SCALE:	DRAWN	KRH	01/2024
1" = N/A	DESIGNED	RJP	
	SURVEY	NJR	
PROFILE SCALE:	PROJ. MGR.		
HORIZONTAL:	LEAD ENGR.	DP	1/26
1" = N/A	FIELD MGR.	JRM	1/26
VERTICAL:	RECOMMENDED		
1" = N/A	DESIGN MANAGER	HRS	02/26
FILE:	DRAWING:		DATE: 4/7/2026
ATLAS PAGE NO. 229.230			SHEET 34 OF 39 SHEETS

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PLOTTED 1/6/2026 10:33:59 AM BY RYAN.PIERCE  
\\PEC1\COMPNET\WICHITA-CIVIL\2022\220961\1000\MUNI-TRANS\DRAWINGS\PLANS\220961-TRAFFIC CONTROL  
PHASE 6.DWG



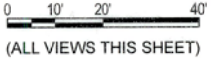
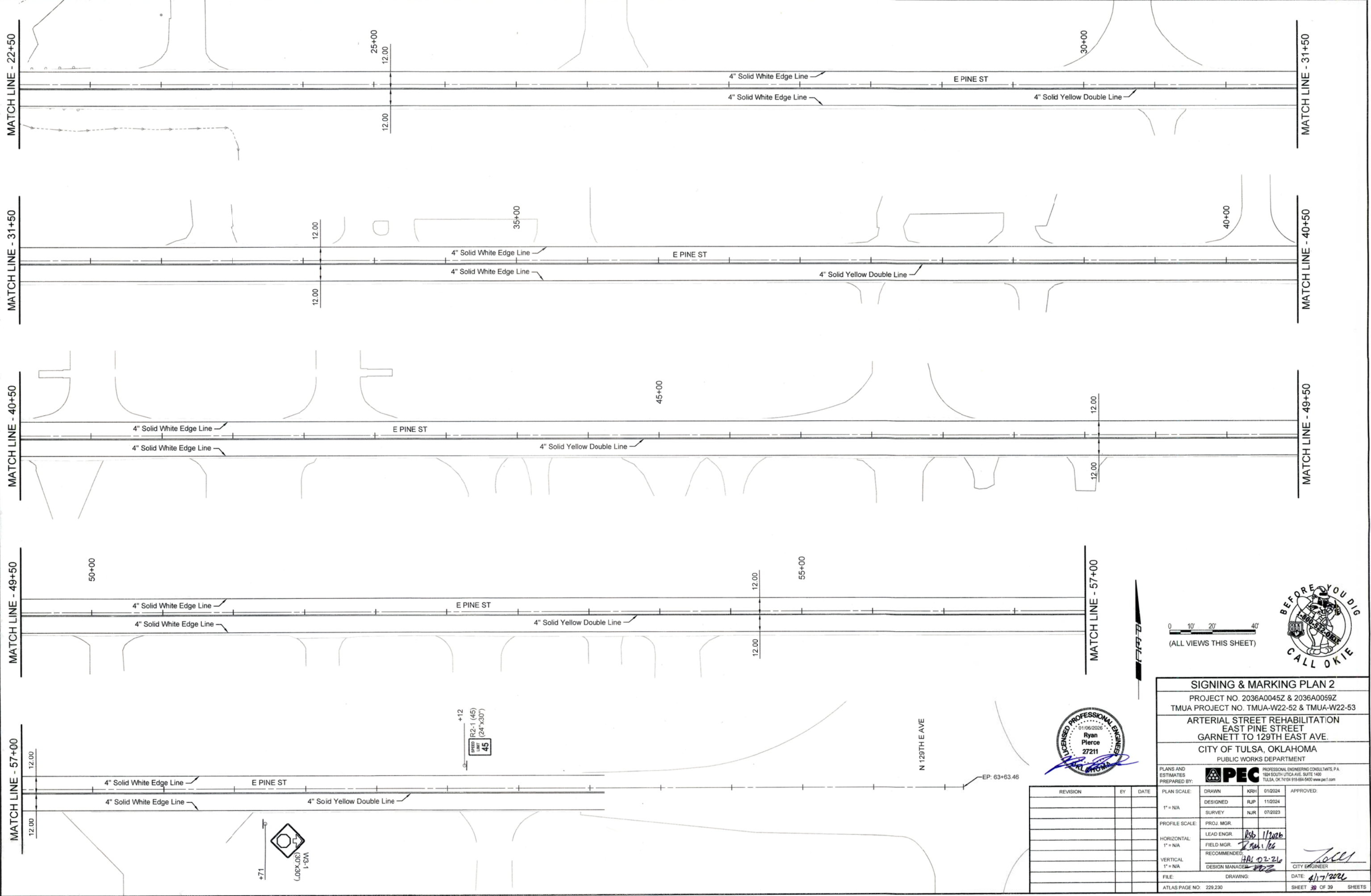


SAVED 2/19/2026 1:19:38 PM BY RYAN PIERCE  
 PLOTTED 2/19/2026 1:56:52 PM BY RYAN PIERCE  
 U:\WCHITA-CIVIL\2022\220961\000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-SIGNING & MARKING.DWG



SIGNING & MARKING PLAN 1			
PROJECT NO. 2036A0045Z & 2036A0059Z			
TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53			
ARTERIAL STREET REHABILITATION			
EAST PINE STREET			
GARNETT TO 129TH EAST AVE.			
CITY OF TULSA, OKLAHOMA			
PUBLIC WORKS DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:	<b>PEPC</b>	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 1524 SOUTH UTICA AVE., SUITE 1400 TULSA, OK 74104 918-864-5400 www.pepc.com	
PLAN SCALE:	DRAWN: KRH	01/2024	APPROVED:
1" = N/A	DESIGNED: RJP	11/2024	
	SURVEY: NJR	07/2023	
PROFILE SCALE:	PROJ. MGR.		
HORIZONTAL:	LEAD ENGR.		
1" = N/A	FIELD MGR. Ryan Pierce		
VERTICAL:	RECOMMENDED:	HAS 3-26	
1" = N/A	DESIGN MANAGER		
FILE:	DRAWING:	DATE: 4/17/2026	CITY ENGINEER
ATLAS PAGE NO: 229,230			SHEET 37 OF 39 SHEETS

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 PLOTTED 1/6/2026 10:36:25 AM BY RYAN.PIERCE  
 \\PEC1\COMPENET\WCHITA-CIVIL\2022\2209611000\MUNI-TRANS\DRAWINGS\PLANS\220961-000-SIGNING & MARKING.DWG



**SIGNING & MARKING PLAN 2**  
 PROJECT NO. 2036A0045Z & 2036A0059Z  
 TMUA PROJECT NO. TMUA-W22-52 & TMUA-W22-53  
**ARTERIAL STREET REHABILITATION**  
 EAST PINE STREET  
 GARNETT TO 129TH EAST AVE.  
 CITY OF TULSA, OKLAHOMA  
 PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: **PEPC** PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
 1024 SOUTH UTICA AVE., SUITE 1400  
 TULSA, OK 74104 918-584-5400 www.pec1.com

REVISION	BY	DATE

PLAN SCALE:	DRAWN	KRH	01/2024	APPROVED:
1" = NA	DESIGNED	RJP	11/2024	 CITY ENGINEER
	SURVEY	NJR	07/2023	
PROFILE SCALE:	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.	Bsb	11/2026	
1" = NA	FIELD MGR.			
	RECOMMENDED			
	DESIGN MANAGER	HAI	02-21	
FILE:	DRAWING:			DATE: 4/17/2026
ATLAS PAGE NO. 229.230				SHEET 30 OF 39 SHEETS

