SURVEY DATUM

HORIZONTAL CONTROL: OKLAHOMA STATE PLANE COORDINATE SYSTEM
NAD 83 (2011)
VERTICAL CONTROL: NAVD 1988
SCALE FACTOR: 0.99991998

Symbol Legend

- Electric Meter
- Gas Meter
- Gas Valve
- Irrigation Control Valve
- Water Meter
- Water Valve
- Water Valve Vault
- Blowoff Hydrant Assembly
- Fire Hydrant
- Storm Sewer Manhole
- Sanitary Sewer Manhole
- Communication Manhole
- Cleanout
- Power Pole
- Guy Anchor
- Light Pole
- Traffic Signal Pole
- Telephone Pedestal
- Sign
- Mailbox
- Bench Mark
- Boring
- Survey Control Point
- Property Pin
- Deciduous Tree
- Deciduous Tree
- Coniferous Tree
- Bush
- Treeline
- CMP - Corrugated Metal Pipe
- RCP - Reinforced Concrete Pipe
- C P - Concrete Pipe
- E_x - Existing Electric
- C^U_x - Telephone Underground
- G_x - Existing Natural Gas Line
- W_x - Existing Water Line
- Existing Stormwater Line
- SS_x - Sanitary Sewer Line
- P L - Property Line
- Ditch Line/Swale
- X - Fence Line
- R / W - Right-Of-Way (ROW)
- Existing Utility Line Easement
- Survey Basement Line (S.B.L.)
- Flood Plain Boundary

UTILITY COORDINATION		
UTILITY/DEPARTMENT	NUMBER	
OKLAHOMA ONE-CALL SYSTEM, INC.	1-800-522-6543	
ENGINEERING SERVICES		
WATER DESIGN	918-596-9580	
WASTEWATER DESIGN	918-596-9564	
TRANSPORTATION DESIGN	918-596-9636	
TRAFFIC ENGINEERING DESIGN	918-596-9741	
COT TRAFFIC ENGINEER	918-596-9749	
STORMWATER DESIGN	918-596-9498	
CITY OF TULSA-WATER AND SEWER	918-596-9560	
CITY OF TULSA-TRAFFIC OPERATIONS	918-596-9766	
UTILITY COORDINATOR: CHRIS KOVAC	918-596-9649	
OKLAHOMA NATURAL GAS - TIM HELBIG	918-831-8387	tim.helbig@onegas.com
AT&T DISTRIBUTION - WAYE GROOM	918-527-7309	wg4679@att.com
AT&T TRANSMISSION - KEVIN WINGARD	580-931-7688	kwingard@sdtl-l.com
AEP/PSO - LONNY HICKS	918-250-6257	ldhicks@aep.com
COX COMMUNICATIONS - JASON HOLT	918-830-7238	jason.holt@cox.com
MCI/VERIZON	918-590-2160	

CONSTRUCTION PLANS
ARTERIAL STREET REHABILITATION
129TH E AVE - APACHE ST TO PINE ST

PROJECT NO. 2036A0055Z
ACCOUNT NO. 2036A0055Z.Streets.ArtRhb.4282.42823122-541106
PUBLIC WORKS DEPARTMENT
CITY OF TULSA, OKLAHOMA

INDEX TO DRAWINGS

THE FOLLOWING OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARDS

SSS-1	SOLID SLAB SODDING
TCS5-1	TYPICAL SIGN INSTALLATION
TCS6-1	CHANNELIZING DEVICES
TCS7-1	ADVANCE WARNING SIGNS
TCS8-1	CONSTRUCTION SIGNS
TCS9-1	CONSTRUCTION SIGNS
TCS10-1	CONSTRUCTION SIGNS
TCS11-1	CONSTRUCTION SIGNS
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TCS19-1	CONSTRUCTION SIGNS
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TCS21-1	CONST. ZONE PAV. MARKINGS
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THE FOLLOWING CITY OF TULSA STANDARDS

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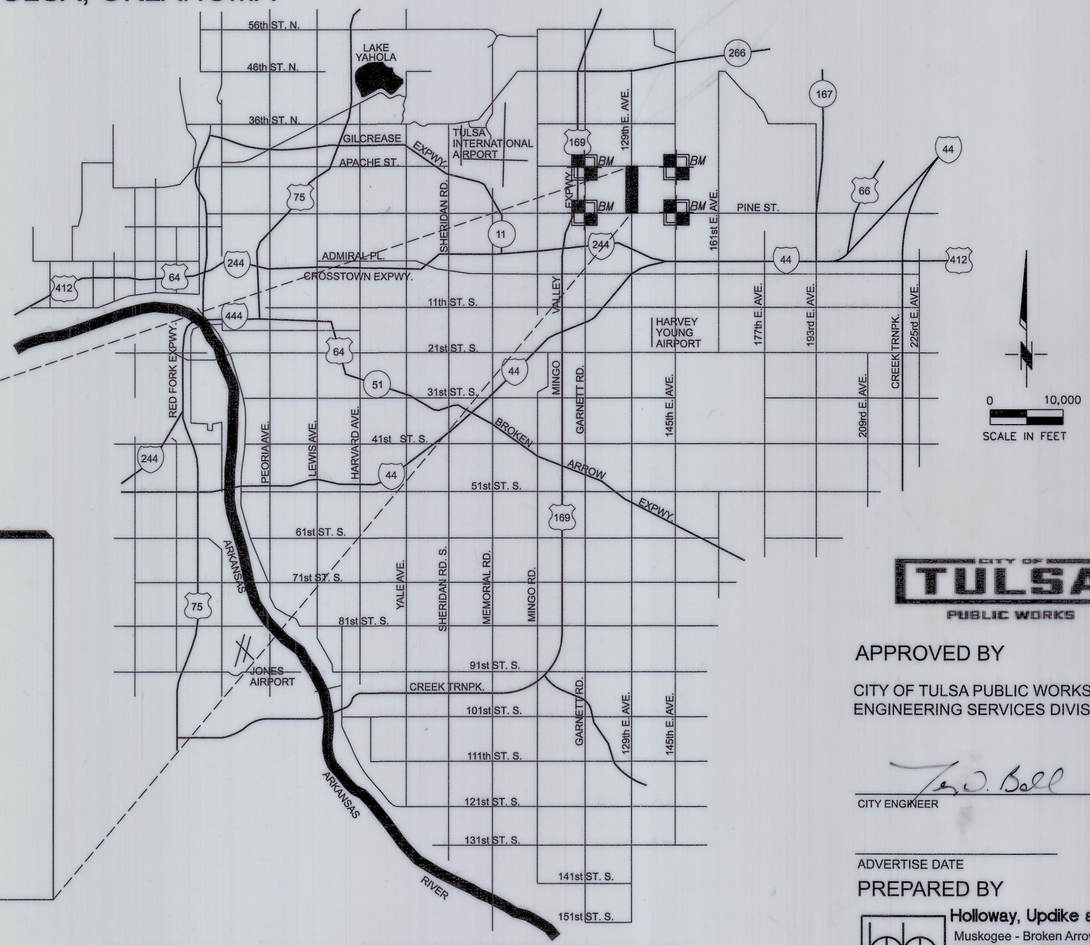
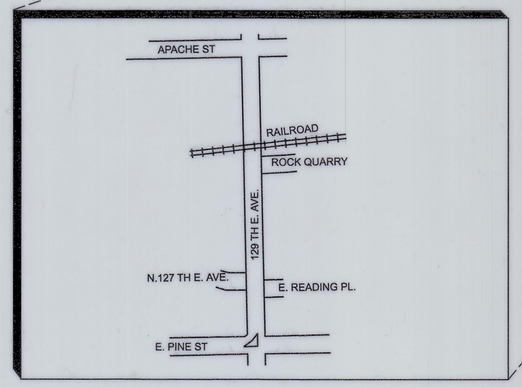
608A	STREET NAME SIGNS
608B	TRAFFIC SIGNS
625	REMOVAL OF TRAFFIC SIGNS
713	PAVEMENT REMOVAL AND REPLACEMENT
725	STANDARD PAVEMENT PATCH AND REPAIR





PROJECT LOCATION

OKIE811

GOVERNING SPECIFICATIONS:

CURRENT CITY OF TULSA STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS APPROVED BY THE CITY OF TULSA.

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

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 PATCHING AND CONCRETE WORK PRIOR TO MILLING OPERATIONS TO MINIMIZE CONSTRUCTION TRAFFIC LOADINGS TO REDUCED CAPACITY STREET SECTIONS. FURTHER, THE ANTICIPATED CONSTRUCTION PHASING WILL MINIMIZE THE TIMES BETWEEN MILLING AND NEW ASPHALT PLACEMENTS. LEAVING OPEN MILLED SECTIONS WILL BE AT THE CONTRACTOR'S RISK IN THE EVENT THAT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO PREVIOUSLY UNDAMAGED AREAS. CURRENT COT CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECTS.

DESIGN INFORMATION

PROJECT LENGTH_____ 5,280 FT_____1.0 MI

PROJECT IS BASED ON ℄ SURVEY

CITY OF TULSA
PUBLIC WORKS

APPROVED BY

CITY OF TULSA PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

Jon D. Ball 8/8/2025
CITY ENGINEER DATE

ADVERTISE DATE

PREPARED BY

Holloway, Updike and Bellen, Inc.
Muskogee - Broken Arrow, Oklahoma
905-A SOUTH 9TH STREET, BROKEN ARROW, OK. 74012
918-251-0717, FAX 918-251-0754
ENGINEERS (C.A. No. 219, EXP. 6-30-25)

REGISTERED PROFESSIONAL ENGINEER
DWAIN MERLE GARNER
18300
09/25/2024
OKLAHOMA

Dwain M Garner 9/25/24
DWAIN M. GARNER, P.E. DATE
OKLAHOMA REG. P.E. NO. 18300

PROJECT# 2036A0055Z 129TH APACHE TO PINE ARTERIAL REHABILITATION (SEPTEMBER 2024)

SCHEDULE I - ROADWAY IMPROVEMENTS SUMMARY OF QUANTITIES 129TH ST. APACHE ST TO PINE ST

Item No.	Spec Number	Item Description	Pay Item Notes	Bid Unit	Quantity
1	104	Railroad Flagger	SP-2	DAY	30
2	202(A)	Unclassified Excavation	E-3,E-4,E-7	CY	83
3	205(A)	Type A Salvage Topsoil		CY	257
4	220	Swppp Documentation and Management	E-6,E-7,E-8	LSUM	1
5	230(A)	Solid Slab Sod (Like Kind)	E-7,E-10,E-11	SY	1834
6	303(A)	Aggregate Base (Type A)	S-1,S-2	CY	83
7	310(B)	Subgrade Method B		SY	249
8	325	Separator Fabric	S-3	SY	249
9	409(A)	Fabric Reinforcement (Glas Paved 50)	S-4	SY	11818
10	411(C)	2" Superpave, Type S4 (PG 70-28 OK) (Overlay)	S-6,S-7,S-8	TON	1324
11	411(E)	1" Superpave, Type S6 (PG 70-28 OK) (Level Course)	S-5,S-6,S-7,S-8,G-1,SP-1	TON	662
12	417	Cold Milling Pavement	S-9	SY	6406
13	619(B)	Remove Structures and Obstructions	R-1,R-2,R-3,R-4,R-5,R-6	LSUM	1
14	640	Mobilization	G-2	EA	1
15	641	Contractor Construction Staking Level II	G-3,G-4	EA	1
16	855(A)	Traffic Stripe (Thermoplastic) (4" Solid Yellow)	T-3	LF	9618
17	855(A)	Traffic Stripe (Thermoplastic) (4" Solid White)	T-3	LF	9670
18	855(A)	Traffic Stripe (Thermoplastic) (24" Solid White)	T-3	LF	55
19	880 (A)	Arrow Display (TYPE A)	T-4	SD	2
20	880(B)	Construction Sign (0 S.F TO 6.25 SF)	T-2,T-4,T-5,T-7	SD	7
21	880(B)	Construction Sign (6.25 SF to 15.99 SF)	T-2,T-4,T-5,T-7	SD	8
22	880(B)	Construction Sign (16.00 SF TO 32.00 SF)	T-2,T-4,T-5,T-7	SD	4
23	880(C)	Type III Barricade	T-2,T-4,T-5,T-7	SD	12
24	880(E)	Warning Lights (Type A)	T-4,T-5,T-7	SD	2
25	880(E)	Warning Lights (Type C)	T-4,T-5,T-7	SD	12
26	880(F)	Drums	T-2,T-4,T-5,T-7	SD	3
27	880(G)	Tube Channelizer	T-2,T-4,T-5,T-7	SD	2
28	880(I)	Flagger	T-6	FD	40
29	882(A)	Port. Changeable Message Sign	T-4	SD	2
30	COT 202(B)	Quick Set Flowable Fill	G-1	CY	9
31	COT 334	Construction As Built		LSUM	1
32	COT 335	Contractor Quality Control		LSUM	1
33	COT 608(A)	Ground Signs (Post-Mounted Traffic Signs)	T-2	SF	12
34	COT 608(C)	1 1/2" Square Tube Post (St Name)		LF	4
35	COT 608(D)	1 3/4" Square Tube Post (Main Post)		LF	233
36	COT 608(E)	2" Square Tube Post (Footing)		LF	72
37	COT 625	Removal of Traffic Items	T-1	EA	1
38	SPECIAL	Project Sign (City of Tulsa Std. No. 102)	T-4,T-7	EA	2
39	SPECIAL	Type I AC Patch	G-1,S-21	CY	38
40	SPECIAL	Type I PCC Patch	G-1,S-21	CY	28
41	SPECIAL	Railroad Allowance	SP-2	EA	15000
42	SPECIAL	Owner Allowance		EA	25000
43	SPECIAL	Urban Right -of-Way-Restoration	G-5,G-6,G-7,G-8,G-9,G-10	EA	1

MISCELLANEOUS PAY ITEM NOTES

ANY WORK COMPONENT WITHOUT A SPECIFIC PAY ITEM
OR COST ASOCIATED WITH IT SHALL BE
INCLUDED IN OTHER ITEMS OF WORK.

TRAFFIC SIGNS GENERAL NOTES:

WORK SHALL CONSIST OF FURNISHING MATERIALS AND INSTALLING TRAFFIC SIGNS IN ACCORDANCE WITH THE CITY OF TULSA 608 SPECIFICATIONS AND IN REASONABLE CLOSE CONFORMITY WITH THE LOCATION AND DIMENSIONS SHOWN ON THE STANDARDS, PLANS, OR AS ESTABLISHED BY THE ENGINEER.

SIGNS SHALL BE DESIGNED IN ACCORDANCE WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REVISIONS AND THE 2004 FHWA STANDARD HIGHWAY SIGNS (2012 SUPPLEMENT TO THE 2009 MUTCD).

STREET NAME SIGN PROOF SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FRABRICATION. NO INSTALLATION SHALL BE ALLOWED UNTIL APPROVAL BY TRAFFIC ENGINEER.

PAY ITEM NOTES

ENGINEERING SERVICES - TRANSPORTATION DESIGN
PAY ITEM NOTES (VERSION: 11/14/2018)

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

E-1: NOT USED.
E-2: NOT USED.
E-3: THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL EXCAVATION 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 CONSTRUCTIO SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COS 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: NOT USED.
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 LIKE-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 RESODDED 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 - S21)

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.

BINDER GRADE	MESALs	ADT[1]	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.

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: NOT USED.
S-11: NOT USED.
S-12: NOT USED.
S-13: NOT USED.
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

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.

PAY ITEM NOTES

DRAINAGE (D1 - D15) NOT USED.

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.

TRAFFIC (T1 - T7)

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

SPECIAL PAY ITEM NOTES:

SP-1: SUPERPAVE TYPE S6 LEVELING COURSE SHALL BE USED AT THE DISCRETION OF THE FIELD ENGINEER PRIOR TO PLACING FABRIC REINFORCEMENT AND MAY BE OMITTED IN ITS ENTIRETY.

SP-2: RAILROAD (RR) COMPANY REQUIREMENTS
THE RAILROAD COMPANY MAY, AS A CONDITION FOR WORKING ON OR OVER RR RIGHT-OF WAY, IMPOSSED BOTH VERTICAL AND HORIZONTAL CLEARANCE REQUIREMENTS. THE RR COMPANY'S SPECIFIC CLEARANCE REQUIREMENTS WILL BE CONTAINED IN THE RIGHT OF ENTRY AGREEMENT BETWEEN THE CONTRACTOR AND THE RR COMPANY. A RR ALLOWANCE FOR RIGHT OF ENTRY AGREEMENT IS INCLUDED IN PAY ITEM SPECIAL RAILROAD ALLOWANCE.

RAILROAD (RR) FLAGGING: REIMBURSEMENT SHALL BE TO THE RR COMPANY DIRECTLY FOR THE COST OF ALL RR FLAGGING REQUIRED AND PROVIDED BY THE RR COMPANY FOR WORK ON RR PROPERTY. COST FOR RR FLAGGING SHALL BE INCLUDED IN UNIT PRICE 104 RAILROAD FLAGGER. IT SHALL INCLUDE RR FLAGGING AND TRAFFIC TRAFFIC CONTROL REQUIRED WITHIN THE RR. IT NCLUDES MAINTENACE AND REPLACEMENT OF TRAFFIC ITEMS SUCH AS SIGNS, TEMPORARY MAKINGS, CHANNELIZING DEVICES, LIGHTS AND OTHER RELEVANT PAY ITEMS FOR WORK INSIDE RR RIGHT OF WAY.

PUBLIC WORKS DEPARTMENT WILL NOT PAY THE CONTRACTOR'S FINAL ESTIMATE UNTIL THE CONTRACTOR PROVIDES SATISFACTORY EVIDENCE IN THE FORM OF A NOTARIZED CERTIFICATE BY THE RR COMPANY THAT THE CONTRACTOR REIMBURSED THE RR COMPANY FOR SUCH SERVICES.

REVISION	BY	DATE

ROADWAY PAY ITEMS
QUANTITIES AND NOTES

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	DMG	10/19	
HORIZONTAL: NA	LEAD ENGR.	DMG	9/25	
	FIELD MNGR.	BMH	11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS	5:25	CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTSIG-Quantities&Notes — DATE 08/2023

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GENERAL ROADWAY CONSTRUCTION NOTES (9-12-2016)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS, AS APPROVED.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCIVERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS , EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
18. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7814 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 RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.

GENERAL CONSTRUCTION NOTES - TRAFFIC SIGNS

1. ALL TRAFFIC SIGNS WORK SHALL CONSIST OF FURNISHING MATERIALS AND INSTALLING TRAFFIC SIGNS IN ACCORDANCE WITH THE CITY OF TULSA 608 SPECIFICATIONS AND IN REASONABLE CLOSE CONFORMITY WITH THE LOCATION AND DIMENSIONS SHOWN ON THE STANDARDS, PLANS, OR AS ESTABLISHED BY THE ENGINEER.
2. SIGNS SHALL BE DESIGNED IN ACCORDANCE WITH THE 2#9 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REVISIONS AND THE 2004 FHWA STANDARD HIGHWAY SIGNS (2012 SUPPLEMENT TO THE 2009 MUTCD).
3. STREET NAME SIGN PROOF SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FRABRICATION. NO INSTALLATION SHALL BE ALLOWED UNTIL APPROVAL BY TRAFFIC ENGINEER.

20 10 0 20 40

SCALE IN FEET

BEFORE YOU DIG CALL OKIE 1-800-522-6543

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER IV 18300 09/25/2024 OKLAHOMA

REVISION	BY	DATE

CONSTRUCTION NOTES

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.		11/24	
HORIZONTAL: NA	LEAD ENGR.		9/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR		9-25-25	CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-Quantities&Notes | DATE 08/2023

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SUMMARY OF PERMANENT TRAFFIC CONTROL SIGNS

Station	Offset LT	Offset RT	No. of Signs	Sign Designation	Size (IN)	Sheet Alum. Signs 608(A) (SF)	1-1/2" Square Tube Post 608(C) (LF)	1-3/4" Square Tube Post 608(D) (LF)	2" Square Tube Post 608(E) (LF)	Remarks
10+00 to 15+00		X	1	R2-1	24" x 18"	3		10	3.0	
15+00 to 20+00	X	X	2	OM-3L	12" x 36"	6	-	22	6.0	
	X	X	2	OM-3R	12" x 36"	6	-	22	6.0	
	X		1	W3-1	30" x 30"	6.25	-	9.5	3.0	
	X		1	R14-1a	24" x 30"	5	-	9.5	3.0	No Engine Brake
20+00 to 25+00		X	1	N David Patrick Av	48" x 9"	3	1.0	-	-	Street Sign on Top of R1-1
		X	1	E Reading Pl 12900	48" x 9"	3	1.0	-	-	Street Sign on Top of R1-1
		X	1	R1-1	30" x 30"	6.25	-	9.5	3.0	
25+00 to 30+00	X	X	2	OM-3L	12" x 36"	6	-	22	6.0	
	X	X	2	OM-3R	12" x 36"	6	-	22	6.0	
30+00 to 35+00			0	-	-	-	-	-	-	
35+00 to 40+00			0	-	-	-	-	-	-	
40+00 to 45+00		X	1	W10-1	36" Dia.	7.07	-	11	3.0	
		X	1	W10-5	36" x 36"	9	-	11	3.0	W10-5 On Top Of W10-5p
		X	1	W10-5p	30" x 24"	5	-	2	-	Low Ground Clearance (Plaque)
45+00 to 50+00	X		1	R15-1	48" X 9"	3	-	9.5	3.0	Contractor to coordinate with railroad for desired replacement location, size, etc.
		X	1	R15-1	48" X 9"	3	-	9.5	3.0	
	X		1	W10-5	36" x 36"	9	-	11	3.0	W10-5 On Top Of W10-5p
	X		1	W10-5p	30" x 24"	5	-	2	-	Low Ground Clearance (Plaque)
50+00 to 55+00			1	W10-1	36" Dia.	7.07	-	11	3.0	
55+00 to 60+00	X		1	R2-1	24" x 18"	3		10	3.0	
		X	1	W3-1	30" x 30"	6.25	-	9.5	3.0	
60+00 to 63+00	X		1	R1-1	30" x 30"	6.25	-	9.5	3.0	
	X		1	R1-3P	18" x 6"	0.75		0.5	3.0	All Way (Plaque) Below R1-1 Sign
	X		1	N David Patrick Av	48" x 9"	3	1.0	-	-	Street Sign on Top of R1-1
	X		1	E Apache St	30" x 9"	2	1.0	-	-	Street Sign on Top of R1-1
		X	1	R1-1	30" x 30"	6.25	-	9.5	3.0	
		X	1	R1-3P	18" x 6"	0.75		0.5	3.0	
					Total	127.14	4	233	72	

SUMMARY OF SURFACING

From Station	To Station	Salvage Top Soil 205 (A) (CY)	Solid Slab Sod 230 (A) (SY)	Fabric Reinforcement Overlay 409(A) (SY)	2" Superpave Type S4 (PG 64-22 OK) Overlay 411(C) (TON)	1" Superpave Type S6 (PG 64-22 OK) Leveling Course 411(E) (TON)	Cold Milling Pavement 412 (SY)	AC Patch Type I (Non Arterial) SPECIAL (CY)	PCC Patch Type I (Arterial) SPECIAL (CY)
10+00	15+00	23.33	166.67	271.20	30.37	15.19	189.30	0.00	0.00
15+00	20+00	23.33	166.67	1260.54	141.18	70.59	666.43	0.00	0.00
20+00	25+00	23.33	166.67	1285.39	143.96	71.98	666.71	0.00	0.00
25+00	30+00	23.33	166.67	1279.47	143.30	71.65	666.79	0.00	0.00
30+00	35+00	23.33	166.67	1292.75	144.79	72.39	666.73	0.00	0.00
35+00	40+00	23.33	166.67	1310.84	146.81	73.41	666.69	0.00	0.00
40+00	45+00	23.33	166.67	1274.58	142.75	71.38	666.86	13.00	0.00
45+00	50+00	23.33	166.67	1285.58	143.98	71.99	744.01	137.00	0.00
50+00	55+00	23.33	166.67	1302.55	145.89	72.94	666.72	0.00	0.00
55+00	60+00	23.33	166.67	507.33	56.82	28.41	365.70	0.00	0.00
60+00	62+80	23.33	166.67	747.47	83.72	41.86	439.19	0.00	99.00
		256.67	1,833.33	11,817.70	1,323.58	661.79	6,405.13	150.00	99.00

SUMMARY OF AC PATCHES

Station From	Station To	Unclassified Excavation 202(A) (CY)	Aggregate Base 303 (A) (CY)	Subrade Method B 310(B) (SY)	Separator Fabric 325 (SY)	Type I AC Patch Arterial SPECIAL (SY)	Type I AC Patch Arterial SPECIAL (CY)	Patch Depth (LF)	Unclassified Excavation Depth (LF)	Aggregate Base Depth (LF)	Subgrade Method B Depth (LF)	AC Patch Depth (LF)	10% Agg in Patches	Quick Set Flowable Fill Special (CY)
40+00	45+00	4	4	13.00	13.00	13.00	3.23	0.75	1	1	0.667	0.00	0.43	0.44
45+00	50+00	46	46	137.00	137.00	137.00	34.02	0.75	1	1	0.667	0.00	4.57	4.57
TOTALS		50.00	50.00	150.00	150.00	150.00	37.25						5.00	5.01

SUMMARY OF PCC PATCHES

Station From	Station To	Unclassified Excavation 202(A) (CY)	Aggregate Base 303 (A) (CY)	Subrade Method B 310(B) (SY)	Separator Fabric 325 (SY)	Type I PPC Patch Arterial SPECIAL (SY)	Type I PCC Patch Arterial SPECIAL (CY)	Patch Depth (LF)	Unclassified Excavation Depth (LF)	Aggregate Base Depth (LF)	Subgrade Method B Depth (LF)	AC Patch Depth (LF)	10% Agg in Patches	Quick Set Flowable Fill Special (CY)
60+00	62+80	33	33	99.00	99.00	99.00	27.49	0.83	1	1	0.667	0.00	3.30	3.30
TOTALS		33.00	33.00	99.00	99.00	99.00	27.49						3.30	3.30

SUMMARY OF STREET NAME LENGTH

Character	N		D	a	v	i	d		P	a	t	r	i	c	k		A	v
Left Space				0.16	0.08	0.36	0.24			0.16	0.04	0.36	0.36	0.24	0.36			0.08
Width	2.241	4	2.241	1.921	2.361	0.56	2.041	4	2.241	1.921	1.441	1.321	0.56	2.001	2.161	4	2.561	2.361
Right Space			0.36	0.32	0.08	0.36			0.36	0.32	0.04	0.08	0.36	0.12			0.12	

TOTAL LENGTH: 44.893 inches Round up to 48 inches

Character	E		R	e	a	d	i	n	g		P	l		1	2	9	0	0
Left Space				0.24	0.16	0.24	0.36	0.36	0.24			0.36			0.24	0.24	0.36	0.36
Width	2.041	4	2.241	2.041	1.921	2.041	0.56	2.041	2.041	4	2.241	0.56	4	0.84	2.241	2.241	2.361	2.361
Right Space			0.24	0.16	0.32	0.36	0.36	0.32			0.36			0.44	0.24	0.24	0.36	

TOTAL LENGTH: 46.332 inches Round up to 48 inches

Character	E		A	p	a	c	h	e		S	t
Left Space				0.36	0.16	0.24	0.36	0.24			0.04
Width	2.041	4	2.561	2.041	1.921	2.001	2.041	2.041	4	2.241	1.441
Right Space			0.12	0.24	0.32	0.12	0.32			0.24	

TOTAL LENGTH: 29.089 inches Round up to 30 inches

SUMMARY OF STRIPING

From Sta	To Sta.	Unit	Traffic Stripe (Thermoplastic) (4" Solid Yellow) (609)	Traffic Stripe (Thermoplastic) (4" Solid White) (609)	Traffic Stripe (Thermoplastic) (24" Solid White) (609)
10+00	15+00	LF	204	204	0
15+00	20+00	LF	1000	1000	0
20+00	25+00	LF *	900	950	0
25+00	30+00	LF	1000	1000	0
30+00	35+00	LF	1000	1000	0
35+00	40+00	LF	1000	1000	0
40+00	45+00	LF *	950	950	22
45+00	50+00	LF	1000	1000	0
50+00	55+00	LF *	950	950	22
55+00	60+00	LF	1000	1000	0
60+00	62+80	LF	614	616	11
		Total	9618.00	9670.00	55.00

* NOTE: Generally Stripes are broken at Intersections and Railroad crossings

SUMMARY OF SUPERPAVE TYPE S6 (PG70-28 OK)

From Station	To Station	Depth (IN)	Area (SY)	Factor (IN/SY)	Weight (TON)
10+00	15+00	1	271.2	0.056	15.2
16+00	20+00	1	1260.54	0.056	70.6
20+00	25+00	1	1285.39	0.056	72.0
25+00	30+00	1	1279.47	0.056	71.7
30+00	35+00	1	1292.75	0.056	72.4
35+00	40+00	1	1310.84	0.056	73.4
40+00	45+00	1	1274.58	0.056	71.4
45+00	50+00	1	1285.58	0.056	72.0
50+00	55+00	1	1302.55	0.056	72.9
55+00	60+00	1	507.33	0.056	28.4
60+00	62+80	1	747.47	0.056	41.9
				TOTAL=	661.8

SUMMARY OF SUPERPAVE TYPE S4 (PG70-28 OK)

From Station	To Station	Depth (IN)	Area (SY)	Factor (IN/SY)	Weight (TON)
10+00	15+00	2	271.2	0.056	30.4
16+00	20+00	2	1260.5	0.056	141.2
20+00	25+00	2	1285.4	0.056	144.0
25+00	30+00	2	1279.5	0.056	143.3
30+00	35+00	2	1292.8	0.056	144.8
35+00	40+00	2	1310.8	0.056	146.8
40+00	45+00	2	1274.6	0.056	142.8
45+00	50+00	2	1285.6	0.056	144.0
50+00	55+00	2	1302.6	0.056	145.9
55+00	60+00	2	507.33	0.056	56.8
60+00	62+80	2	747.47	0.056	83.7
				TOTAL=	1323.6

SUMMARY OF EDGE MILLING

From Station	To Station	Area (SY)
10+00	15+00	189.30
15+00	20+00	666.43
20+00	25+00	666.71
25+00	30+00	666.79
30+00	35+00	666.73
35+00	40+00	666.69
40+00	45+00	666.86
45+00	50+00	744.01
50+00	55+00	666.72
55+00	60+00	365.70
60+00	62+80	439.19
Total		6405.13

SUMMARY OF TRAFFIC TEMPORARY CONTROL

PHASE	880(A) ARROW DISPLAY (TYPE A)	880(B) CONST. SIGN 0 TO 6.25 SF	880(B) CONST. SIGN 6.26 SF TO 15.99 SF	880(B)CONST. SIGN 16.00 SF TO 32.99 SF	880(C) TYPE III BARRICADE	880(E) WARNING LIGHTS (TYPE A)	880(E) WARNING LIGHTS (TYPE C)	880(F) DRUMS	880(G) TUBE CHANNELIZER	882(A) PORT. CHANGEABLE MESSAGE SIGN
	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
PHASE I	120	1260	9960	480	600	1200	6960	36960	19200	120
PHASE II	120	1260	9960	480	600	1200	6960	36960	19200	120
~~PHASE III~~										
~~PHASE IV~~										
TOTAL	240	2520	19920	960	1200	2400	13920	73920	38400	240

BEFORE YOU DIG 1-800-522-OKIE CALL OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MIRLE CARNEY 18300 09/25/2024 OKLAHOMA

SUMMARY OF QUANTITIES

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

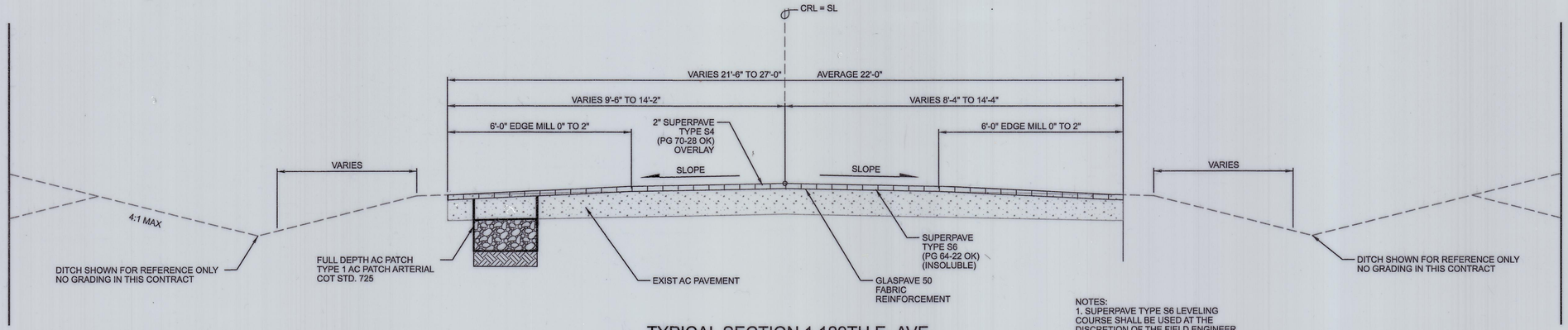
HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	6/24	
HORIZONTAL: NA	LEAD ENGR.	DMG	11/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-Summaryof Quantities | DATE 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 | SHEET 4 OF 25 SHEETS

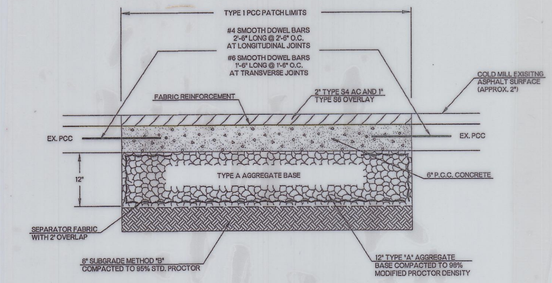


TYPICAL SECTION 1 129TH E. AVE.

129th E. AVE. 13+98 TO 45+48
129th E. AVE. 45+58 TO 55+68
129th E. AVE. 58+67 TO 62+80

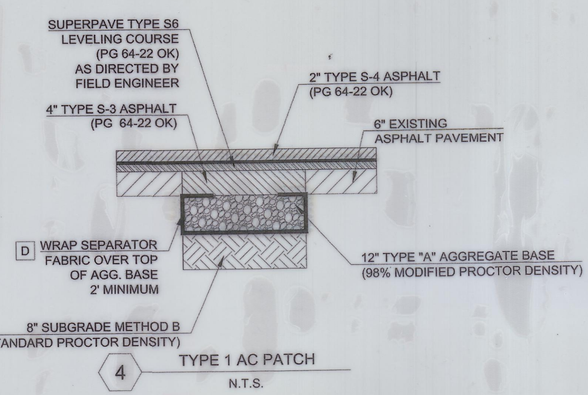
NOTES:
1. SUPERPAVE TYPE S6 LEVELING COURSE SHALL BE USED AT THE DISCRETION OF THE FIELD ENGINEER PRIOR TO PLACING THE FABRIC REINFORCEMENT AND MAY BE OMITTED IN ITS ENTIRETY.

2. SECTION LINE AND CRL ARE NOT ALWAYS IN CENTER OF ROADWAY.

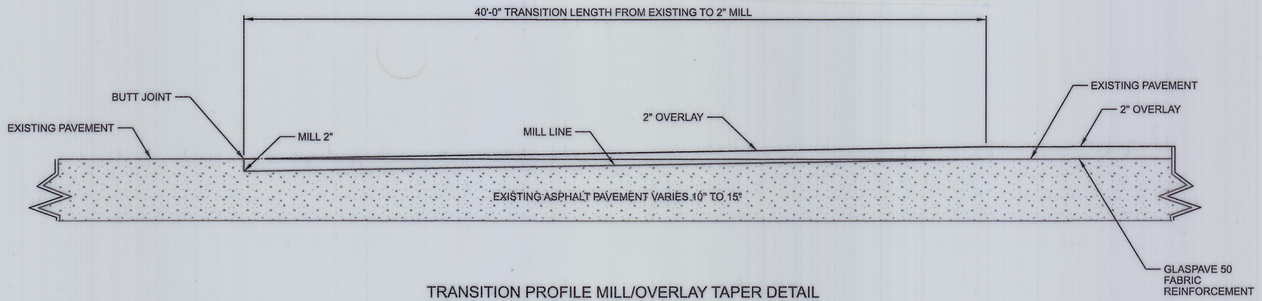


TYPE 1 PCC PATCH

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



4 TYPE 1 AC PATCH
N.T.S.



TRANSITION PROFILE MILL/OVERLAY TAPER DETAIL
N.T.S.

BEFORE YOU DIG CALL OKIE 811 OR 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 08/25/2024 OKLAHOMA

REVISION	BY	DATE

TYPICAL SECTIONS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

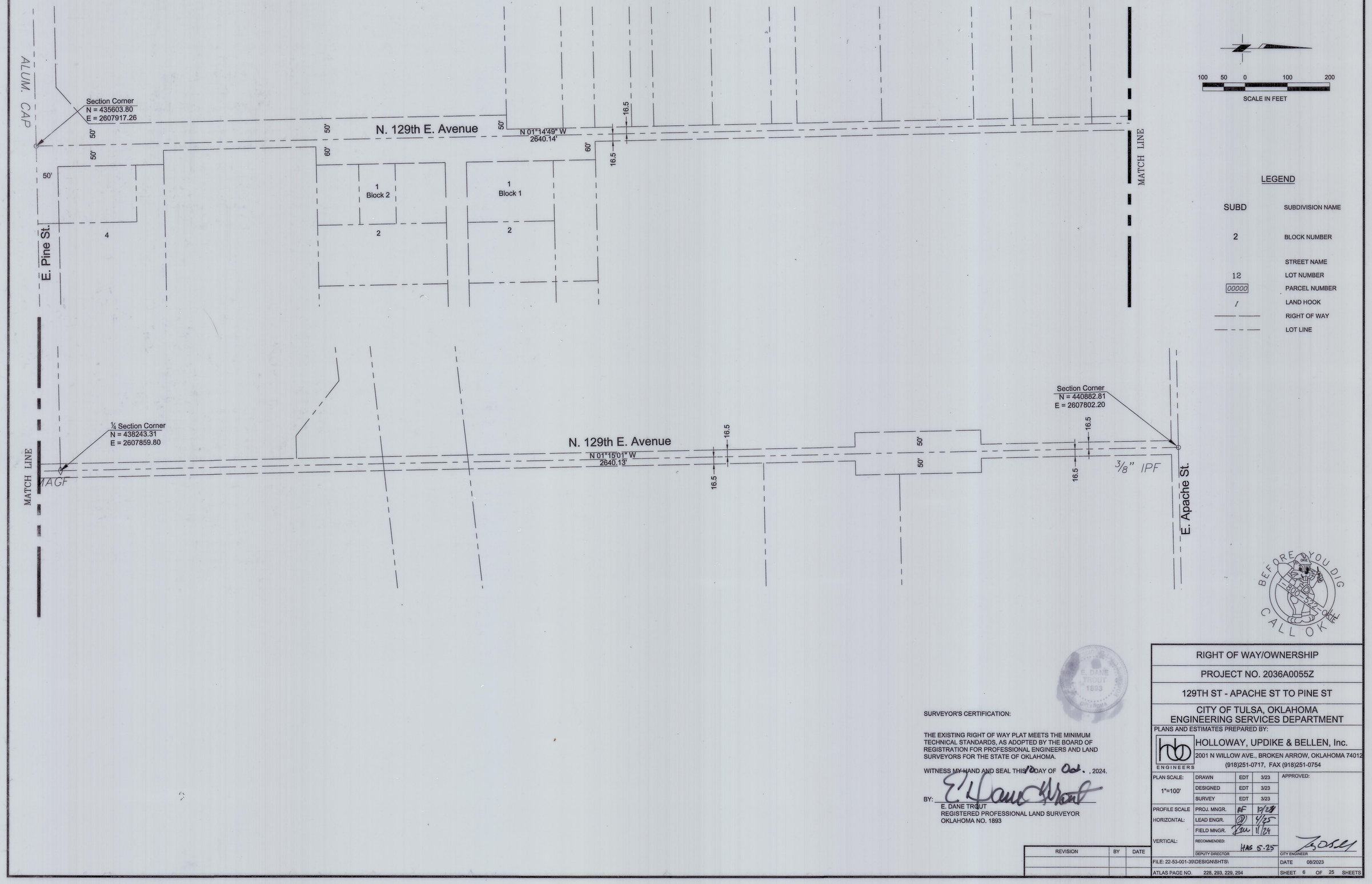
HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMG	3/23
	DESIGNED	DMG	3/23
	SURVEY	CGA	3/23
PROFILE SCALE	PROJ. MNGR.	RF	11/23
HORIZONTAL: NA	LEAD ENGR.	DJ	5/24
VERTICAL: NA	FIELD MNGR.		11/24
	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25	

APPROVED: CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-TypicalSections DATE 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 SHEET 5 OF 25 SHEETS



SURVEYOR'S CERTIFICATION:

THE EXISTING RIGHT OF WAY PLAT MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 10 DAY OF Oct., 2024.

BY: E. Dane Trout

E. DANE TROUT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1893

REVISION	BY	DATE

RIGHT OF WAY/OWNERSHIP

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=100'	DRAWN	EDT	3/23	APPROVED:
	DESIGNED	EDT	3/23	
	SURVEY	EDT	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/23	
HORIZONTAL:	LEAD ENGR.	RF	4/25	
	FIELD MNGR.	EDT	11/24	
VERTICAL:	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\ DATE 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 SHEET 6 OF 25 SHEETS

PROPERTY OWNERSHIP TABLE

PARCEL NUMBER	DEED	OWNER NAME	SITE ADDRESS	MAILING ADDRESSES
00100	2000026211	Puckett, Ken W.	12915 E. Pine St. N.	538 S. 75th E. Ave. Tulsa, OK 74112
00110	2006147753	Charlie's Trailer Sales and Service, Inc.	1735 N. David Patrick Ave. E.	12996 E. Reading Place Tulsa, OK 74116
00130	2014042746	Charlie's Trailer Sales and Service, Inc.	1747 N. David Patrick Ave. E.	P.O. Box 691682 Tulsa, OK 74169
00250	2005021747	Bonnie J Frew, Fredirick A Frew, & Geni Leigh Smith	1721 N David Patrick Ave. E.	1711 N. David Patrick Ave. Tulsa, OK 74116
00260	2006119765	Basil Leon Frailey, Alicia Neasby, Janice Ward	1711 N. David Patrick Ave. E.	1711 N. 129th E. Ave. Tulsa , OK 74116
00270	2018082445	Giovanni Flores Silva & Damaris Del Carmen Montano Rivas	1701 N. David Patrick Ave. E.	10121 E. 26th St. Tulsa , OK 74129
08110	2015086275	Jaime & Ruby Jasso	2421 N. David Patrick Ave. E.	4404 W. College Court Tulsa , OK 74116
08390	No Data Listed with County	Louise Smittle	No Data Listed with County	230 N. 129th E. Ave. Tulsa, OK 74116
08490	No Data Listed with County	Blanche Cravens c/o Eddie Smittle	2030 N. David Patrick Ave. E.	2030 N. 129th E. Ave. Tulsa, OK 74116
08610	2014035423	City of Tulsa	2100 N. 145th E. Ave.	175 E. 2nd St. Ste. 260 Tulsa , OK74103
08690	2000288686	James T. Macaw Jr. & Terri L. Pollard	2006 N. David Patrick Ave. E.	2006 N. 129th E. Ave. Tulsa , OK 74116
08790	2021103598	George R. Bohannon Jr. & Terry Bohannon	1806 N. David Patrick Ave. E.	1810 N. 129th E. Ave. Tulsa , OK 74116
08890	2000288686	James T. Macaw & Terry L. Pollard	2006 N. David Patrick Ave. E.	2006 N. 129th E. Ave. Tulsa , OK 74116
08990	2016030408	Alma M. Mejia	1928 N. David Patrick Ave. E.	18901 E. 49th Place Tulsa , OK 74134
09190	2011070771	JKM Properties, LLC	1902 N. David Patrick Ave. E.	13515 E. 0th Place Tulsa , OK 74134
09390	2017037466	Woods Properties, LLC	1728 N. David Patrick Ave. E.	2417 W. Toledo Court Tulsa , OK 74012
09490	2021006168	Timothy Campbell	1820 N. David Patrick Ave. E.	1820 N. 129th E. Ave. Tulsa , OK 74012
11590	2021103598	George R. Bohannon Jr. & Terry Bohannon	1810 N. David Patrick Ave. E.	1810 N. 129th E. Ave. Tulsa , OK 74116
11690	2000288695	Chris Rivers	1814 N. David Patrick Ave. E.	1814 N. 129th E. Ave. Tulsa , OK 74116
11790	2000288698	Bonnie Jean & Fred A. Frew	1722 N. David Patrick Ave. E.	1722 N. David Patrick Ave. E. Tulsa , OK 74116
11900	2009128192	Eagle Redi-Mix Concrete, LLC	2112 N. David Patrick Ave. E.	2720 N. Hemlock Court Ste. B Broken Arrow, OK 74012
19275	2010025394	2108 N. 129th E. Ave., LLC	2108 N. 129th Ave. E.	2108 N. 129th E. Ave. TULSA , OK 74113
28000	1990960209	Koch Properties, Inc.	No Data Listed with County	P.O. Box 2256 Wichita, KS 67201
32800	2011070771	KJM Properties, LLC	No Data Listed with County	13515 E. 40th Place Tulsa, OK 74134
32850	No Data Listed with County	Schwarz Brothers Properties, LLC	1818 N. 127th Ave. E.	102 W. Ashland Ave. McAlester, OK 74501
43010	2012098521	Forbes Family Trust, James Ray and Patricia Ann Forbes, Trustees	1503 N. David Patrick Ave. E.	8302 E. 435 Road Claremore, OK 74017
43110	1021098423	Richison Enterprises LP	1619 N. David Patrick Ave. E.	P.O. Box 1503 Jenks , OK 74037
50920	2000288680	Thirty Sixth Street North Corp. c/o Cook	2523 N. David Patrick Ave. E.	7832 S. Granite Ave. Tulsa , OK 74116
52920	2000288681	Thirty Sixth Street North Corp. c/o Cook	2317 N. David Patrick Ave. E.	7832 S. Granite Ave. Tulsa , OK 74116

SURVEYOR'S CERTIFICATION:

THE EXISTING RIGHT OF WAY PLAT MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 10 DAY OF Oct., 2024.

BY: E. Dane Trout

E. DANE TROUT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1893

BEFORE YOU DIG CALL OKIE

REVISION	BY	DATE

RIGHT OF WAY/OWNERSHIP

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE:	DRAWN	EDT	3/23	APPROVED:
	DESIGNED	EDT	3/23	
	SURVEY	EDT	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	11/27	
HORIZONTAL:	LEAD ENGR.	DU	4/25	
	FIELD MNGR.		4/24	
VERTICAL:	RECOMMENDED:			
	DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

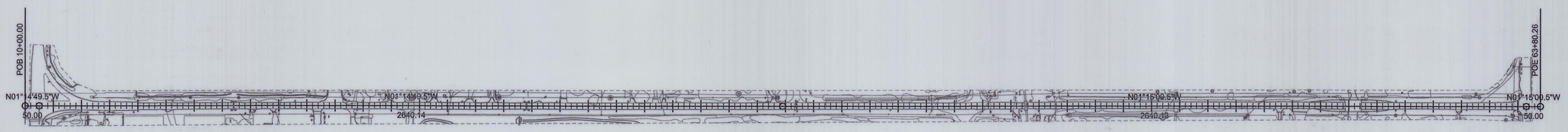
FILE: 22-53-001-39\DESIGN\SHTS\ DATE 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 SHEET 7 OF 25 SHEETS

200 100 0 200 400

SCALE IN FEET

10+00 11+00 12+00 13+00 14+00 16+00 17+00 18+00 19+00 21+00 22+00 23+00 24+00 26+00 27+00 28+00 29+00 31+00 32+00 33+00 34+00 36+00 37+00 38+00 39+00 41+00 42+00 43+00 44+00 46+00 47+00 48+00 49+00 51+00 52+00 53+00 54+00 56+00 57+00 58+00 59+00 61+00 62+00 63+00



CONTROL DATA

Station Name: 8 — Monumented: JULY, 1992

Monument Type: 5/8" REBAR-1 1/2" ALUMINUM CAP-SET IN CONCRETE

City: TULSA | County: TULSA | State: OK

Surveyor: E. SEATON | Prepared by: AERIAL DATA SERVICE

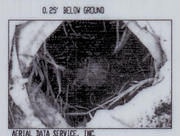
Project Name: TULSA COUNTY

Distances & Directions To Prominent & Reference Marks		
Reference Point	Direction	Distance (feet)
60D NAIL IN POLE	EAST	82.75'
TO CENTER LINE	SOUTH	26.90'
NORTH STOP SIGN POST	N.E.N.	64.00'
Azimuth Mark	Grid Azimuth	Distance

Station Recovery: Good — Date: AUGUST, 2010

Description of Points:
5/8" REBAR-1 1/2" ALUMINUM CAP-FLUSH-SET IN CONCRETE-STAMPED "8", SET N.E. OF THE INTERSECTION OF PINE ST. AND 145TH E. AVE.

0.25' BELOW GROUND



Firm Name: AERIAL DATA SERVICE, INC.
8301 E. 51ST, SUITE 100
TULSA, OKLAHOMA 74145

Adjusted Horizontal Control Data

Order: FIRST | Survey Method: GPS ☒ TRAV ☐ OTHER ☐

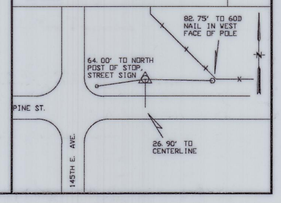
Combined Scale Factor: 0.99991092

	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
NAD83(1993) Grid Data		
State: OKLA. Zone: NORTH Code: 3501	N 425757.791 E 2613308.859	001°17'22.081"
NAD 83 Grid Data	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
State: Zone: Code:	N E	

Metric Conversion Factor: 3.28083333333

Geodetic Data	Position NAD83 (1993)	☒	ELEV(FEET)
	Latitude 36°10'37.71894"	North	NAVD 1988
	Longitude 95°48'54.02678"	West	717.764'

Field Sketch



CONTROL DATA

Station Name: 9 — Monumented: JULY, 1992

Monument Type: 5/8" REBAR-1 1/2" ALUMINUM CAP-SET IN CONCRETE

City: TULSA | County: TULSA | State: OK

Surveyor: E. SEATON | Prepared by: AERIAL DATA SERVICE

Project Name: TULSA COUNTY

Distances & Directions To Prominent & Reference Marks		
Reference Point	Direction	Distance (feet)
FLAGED FENCE POST	N.E.	8.25'
60D NAIL IN POLE	S.W.	66.50'
CENTERLINE OF MANHOLE	N.W.	47.50'
Azimuth Mark	Grid Azimuth	Distance

Station Recovery: Good — Date: AUGUST, 2010

Description of Points:
5/8" REBAR-1 1/2" ALUMINUM CAP-FLUSH-SET IN CONCRETE-STAMPED "9", SET S.E. OF THE INTERSECTION OF APACHE ST. AND 145TH E. AVE.

0.10' BELOW GROUND

Firm Name: AERIAL DATA SERVICE, INC.
8301 E. 51ST, SUITE 100
TULSA, OKLAHOMA 74145

Adjusted Horizontal Control Data

Order: FIRST | Survey Method: GPS ☒ TRAV ☐ OTHER ☐

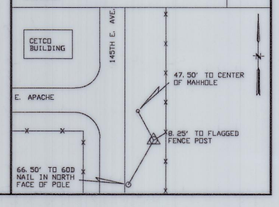
Combined Scale Factor: 0.99991243

	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
NAD83(1993) Grid Data		
State: OKLA. Zone: NORTH Code: 3501	N 440982.419 E 2613163.370	001°17'21.867"
NAD 83 Grid Data	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
State: Zone: Code:	N E	

Metric Conversion Factor: 3.28083333333

Geodetic Data	Position NAD83 (1993)	☒	ELEV(FEET)
	Latitude 36°11'28.61527"	North	NAVD 1988
	Longitude 95°48'54.38887"	West	691.216'

Field Sketch



CONTROL DATA

Station Name: 25 — Monumented: JULY, 1992

Monument Type: 5/8" REBAR-1 1/2" ALUMINUM CAP-SET IN CONCRETE

City: TULSA | County: TULSA | State: OK

Surveyor: E. SEATON | Prepared by: AERIAL DATA SERVICE

Project Name: TULSA COUNTY

Distances & Directions To Prominent & Reference Marks		
Reference Point	Direction	Distance (feet)
60D NAIL IN GUARDRAIL POST	N.E.	45.90'
60D NAIL IN CORNER POST	E.N.E.	52.60'
60D NAIL IN POST	S.E.	57.33'
Azimuth Mark	Grid Azimuth	Distance

Station Recovery: Good — Date: AUGUST, 2010

Description of Points:
5/8" REBAR-1 1/2" ALUMINUM CAP-FLUSH-SET IN CONCRETE-STAMPED "25", SET S.W. OF THE INTERSECTION OF APACHE ST. AND GARNETT RD.

0.10' BELOW GROUND

Firm Name: AERIAL DATA SERVICE, INC.
8301 E. 51ST, SUITE 100
TULSA, OKLAHOMA 74145

Adjusted Horizontal Control Data

Order: FIRST | Survey Method: GPS ☒ TRAV ☐ OTHER ☐

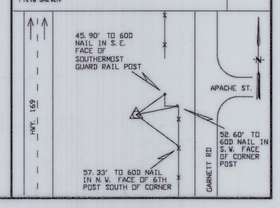
Combined Scale Factor: 0.99991099

	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
NAD83(1993) Grid Data		
State: OKLA. Zone: NORTH Code: 3501	N 440686.515 E 2602472.097	001°16'04.876"
NAD 83 Grid Data	Coordinates (U.S. Survey Feet)	Plane Azimuth Angle (Convergence)
State: Zone: Code:	N E	

Metric Conversion Factor: 3.28083333333

Geodetic Data	Position NAD83 (1993)	☒	ELEV(FEET)
	Latitude 36°11'28.85989"	North	NAVD 1988
	Longitude 95°51'04.84911"	West	616.682'

Field Sketch



CONTROL DATA

Station Name: JJ — Monumented: OCTOBER, 2011

Monument Type: 2" BRASS CAP-SET IN CONCRETE

City: TULSA | County: TULSA | State: OK

Surveyor: J. HARRELL | Prepared by: AERIAL DATA SERVICE

Project Name: CITY OF TULSA H.D.M.E.

Distances & Directions To Prominent & Reference Marks		
Reference Point	Direction	Distance (feet)
RAILROAD CL	NORTH	8.6'
METAL BILLBOARD SIGN POST	SOUTHWEST	78.2'
CL OF GARNETT	WEST	248.4'

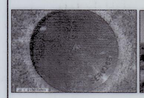
Station Recovery: Good — Date: OCTOBER, 2011

Description of Station:

THE STATION IS LOCATED ABOUT 8.2 MI (13.2 KM) EAST-NORTHEAST OF TULSA, 6.0 MI (9.7 KM) WEST OF CATOOSA AND 2.6 MI (4.2 KM) SOUTH-SOUTHEAST OF MINGO.

TO REACH THE STATION FROM THE INTERSECTION OF HIGHWAY 169 AND PINE ST. GO NORTHEAST FOR 0.99 KM (0.62 MI) TO STATION ON THE RIGHT.

STATION MARKER IS A BRASS CAP SET IN CONCRETE. IT IS LOCATED 2.68 M (8.6 FT) NORTH OF THE CENTERLINE OF A RAILROAD, 23.84 M (78.2 FT) SOUTHWEST OF THE CENTERLINE OF THE WESTERNMOST METAL BILLBOARD SIGN POST, 75.71 M (248.4 FT) WEST OF THE CENTERLINE OF GARNETT.



Combined Scale Factor: 0.99991998

HORIZONTAL ORDER: 3rd	Survey Method:	GPS
VERTICAL ORDER: 2nd CLASS	Survey Method:	DIFFERENTIAL LEVELING

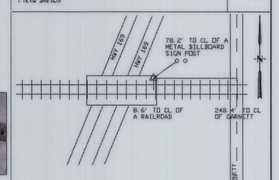
NAD83(1993) Grid Data		Coordinates (U.S. Survey Feet)
State:	OKLAHOMA	N 438473.662
Zone:	NORTH	E 2602343.480
Code:	3501	

Plane Azimuth Angle (Convergence): 001°16'04"

Metric Conversion Factor: 3.28083333333

Geodetic Data	Position NAD83 (1993)	☒	ELEV(FEET)
	Latitude 36°11'07.04935"	North	NAVD 1988
	Longitude 95°51'07.01405"	West	629.21

Field Sketch



ENGINEERING TOPOGRAPHIC SURVEY NOT TO BE USED FOR RIGHT OF WAYS OR BOUNDARIES FOR RIGHTS OF WAYS. SEE SHEETS 6 AND 7.

CONTROL TAKEN FROM THE MONUMENTS SHOWN

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER — DWAIN MERLE GARNER — 18350 — 09/25/2024 — OKLAHOMA

ENGINEERING SURVEY DATA

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=200'	DRAWN	DMG	3/23
	DESIGNED	DMG	3/23
	SURVEY	CGA	3/23
PROFILE SCALE	PROJ. MNGR.	RF	10/24
HORIZONTAL: NA	LEAD ENGR.	DMG	11/24
	FIELD MNGR.	CGA	11/24
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25	

APPROVED: CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-SurveyData — DATE: 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 — SHEET 8 OF 25 SHEETS

STORMWATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS: ARTERIAL STREET MAINTENANCE 129TH E. AVE APACHE ST. TO PINE ST

PROJECT DESCRIPTION: ROADWAY MILL & OVERLAY WITH AC/PCC PATCHES REHABILITATION

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

(1) INSTALL TRAFFIC CONTROL MEASURES, ADVANCE TRAFFIC SIGNAGE FOR WORK ZONE
(2) INSTALL TEMPORARY EROSION CONTROL MEASURES AS NEEDED
(3) BEGIN MILLING CONSTRUCTION OPERATIONS
(4) BEGIN PATCHING OPERATIONS ON WORK ZONE ADJUST AS NEEDED FOR SUBGRADE CONDITIONS
(5) INSPECT TEMPORARY EROSION COTROL MEASURES IF NEEDED FOR RAIN FORCAST ADJUST IF NECESSARY
(6) BEGIN OVERLAY ROAD
(7) BEGIN PATCHING OPERATIONS ADJUST AS NEEDED FOR SUBGRADE CONDITIONS AT MAINTENANCE ZONE
(7) OVERLAY ROADS FOR MAINTENANCE ZONE
(8) INSTALL PERMANENT EROSION CONTROL MEASURES AS NEEDED
(9) REPEAT STEPS 3-8 FOR SEQUENCE OF CONSTRUCTION OPERATIONS AS NEEDED
(10) INSTALL MARKINGS AND PERMANENT TRAFFIC CONTROL SIGNS
(11) PERFORM FINAL INSPECTION AND COMPLETE SITE FINAL INSPECTION CHECKLIST
(12) CLEAN SITE AND REMOVE ALL TEMPORARY TRAFFIC CONTROL ITEMS AT ALL THREE MZ

SOIL TYPE: LEAN CLAY W/ SAND STONE/TRACE SAND STONE/ SHALE

TOTAL AREA OF THE CONSTRUCTION SITE: 2.67 ACRES

ESTIMATED AREA TO BE DISTURBED: 0.72 ACRES

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE) NONE

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.72 ACRES

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.72 ACRES

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.75

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36°11'4.04" N 95°49'59.82"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: 129TH E. AVE FROM APACHE ST. TO PINE ST. DISCHARGE INTO QUARRY CREEK

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303(d) IMPAIRED WATERS: YES ☐ NO ☒

IF YES, LIST IMPAIRMENT: _____

LOCATED IN A TMDL: YES ☐ NO ☒

LAKE THUNDERBIRD TMDL: YES ☐ NO ☒

MS4 ENTITY YES ☐ NO ☒

IF YES, LOCATION: _____

NOTE:
THIS PROJECT INVOLVES MINIMAL WORK OUTSIDE PAVEMENT AREAS
CONTRACTOR SHALL ENSURE THAT EXISTING VEGETATION IS KEPT AND PRESERVED
MATERIALS USED IN PAVING OPERATIONS SHALL NOT ENTER THE NEARBY CREEK.
COST FOR RESTORATION AND/OR REPAIRS TO DISTURBED AREAS SHALL BE AT CONTRACTOR'S SOLE EXPENSE.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

_____ TEMPORARY SEEDING
_____ PERMANENT SODDING, SPRIGGING OR SEEDING
_____ VEGETATIVE MULCHING
_____ SOIL RETENTION BLANKET
__X__ 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
__X__ TEMPORARY SILT FENCE
__X__ TEMPORARY SILT DIKES
__X__ 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
__X__ SANDBAG BERMS
_____ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

_____ HAUL ROADS DAMPENED FOR DUST CONTROL
_____ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
__X__ EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

UNDER THE GENERAL SWPPP, CONTRACTOR SHALL ENSURE NECESSARY EROSION CONTROLS MEASURES ARE TAKEN PRIOR TO STORM EVENTS AND INSPECT 24 HRS AFTER A MAJOR STORM. REMOVE ACCUMULATED EXCESS SOILS WHEN IT REACHES 6" OR MORE.

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, OCTOBER 18, 2022.

BEFORE YOU DIG CALL OKIE 811 OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MIRLE GARNER 18300 08/25/2024 OKLAHOMA

REVISION	BY	DATE

STORMWATER MANAGEMENT PLAN
PROJECT NO. 2036A0055Z
129TH ST - APACHE ST TO PINE ST
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMC	3/23	APPROVED:
	DESIGNED	SA	4/23	
	SURVEY			
PROFILE SCALE	PROJ. MNGR.	RP	10/24	
HORIZONTAL: NA	LEAD ENGR.	DU	4/25	
VERTICAL: NA	FIELD MNGR.		11/24	
	RECOMMENDED: DEPUTY DIRECTOR		HAS 5-25	CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\ DATE 08/2023
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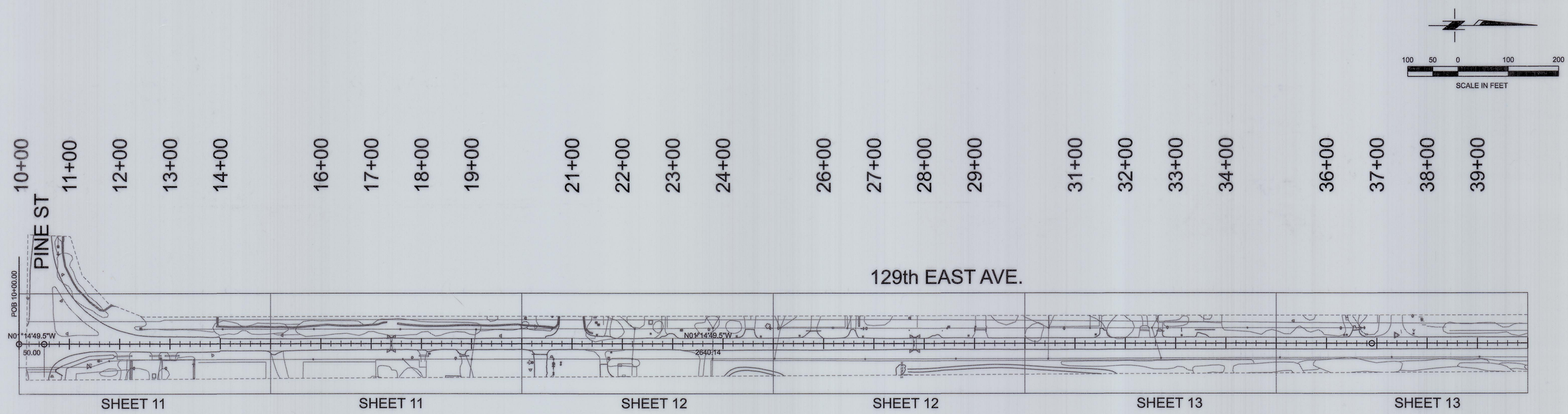

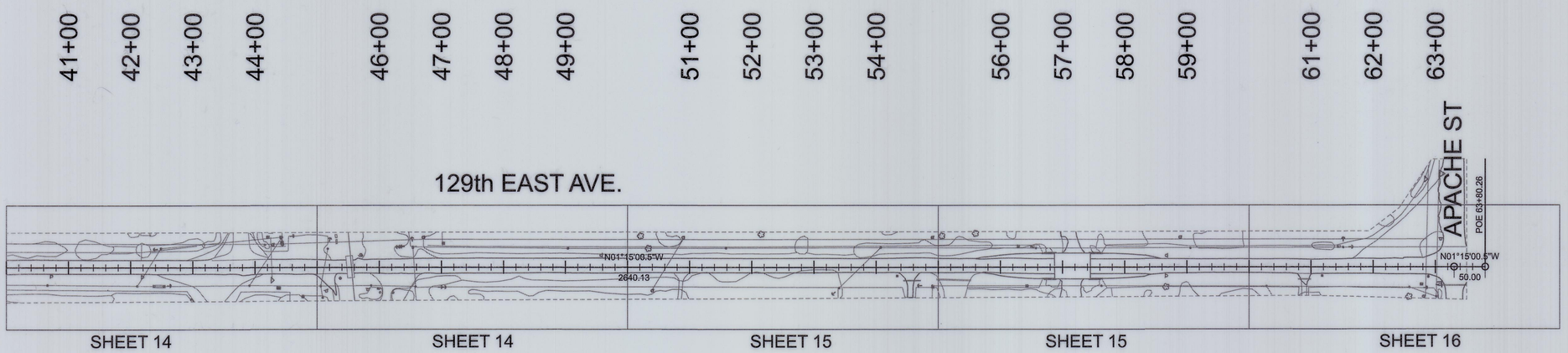

ALIGNMENT TABLE

Point Type	Station	Northing	Easting
Alignment Name:		129th Apache to Pine	
Description:		Section Line	
START	10+00.00	435553.81	2607918.35
PI	10+50.00	435603.80	2607917.26
PI	10+50.00	435603.80	2607917.26
PI	36+90.14	438243.31	2607859.80
PI	36+90.14	438243.31	2607859.80
PI	63+30.26	440882.81	2607802.20
PI	63+30.26	440882.81	2607802.20
END	63+80.26	440932.80	2607801.11

BEFORE YOU DIG CALL OKIE 1800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18900 09/25/2024 OKLAHOMA

REVISION	BY	DATE

ROADWAY KEYMAP / ALIGNMENT DATA

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

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(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=100'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	ADS	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/24	
HORIZONTAL: NA	LEAD ENGR.	DU	7/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25		CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Roadway-Keymap | DATE 08/2023

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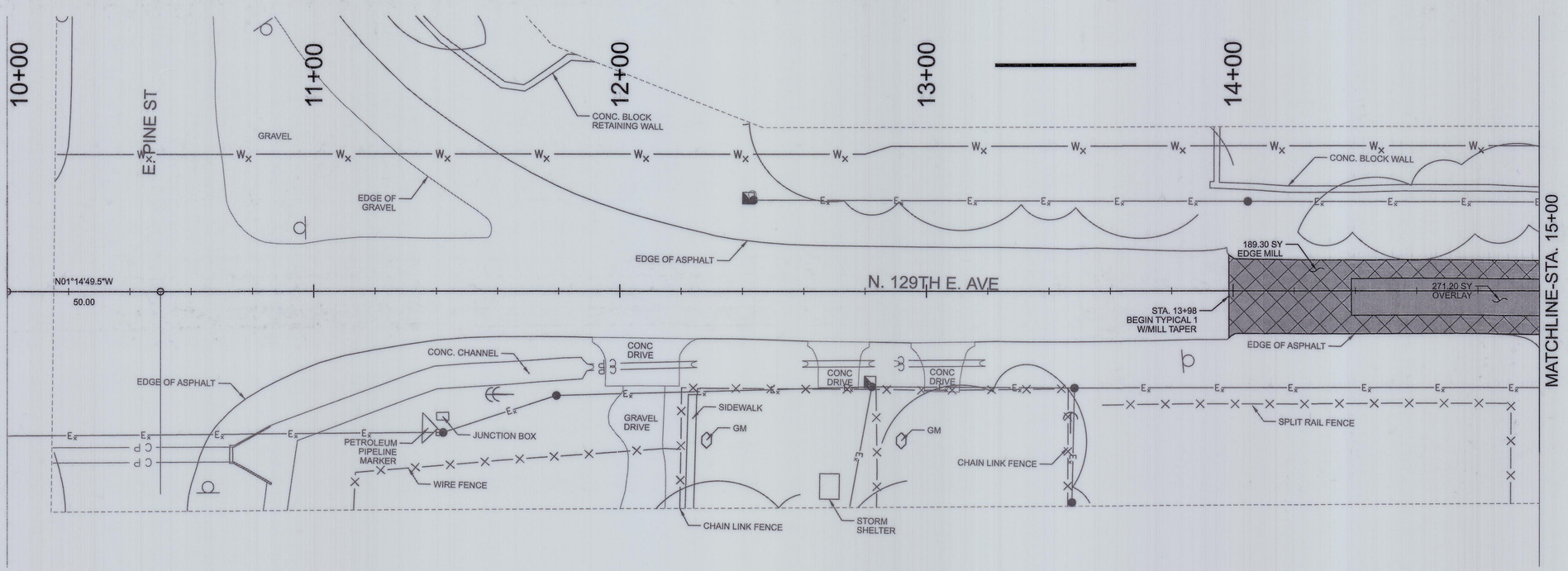

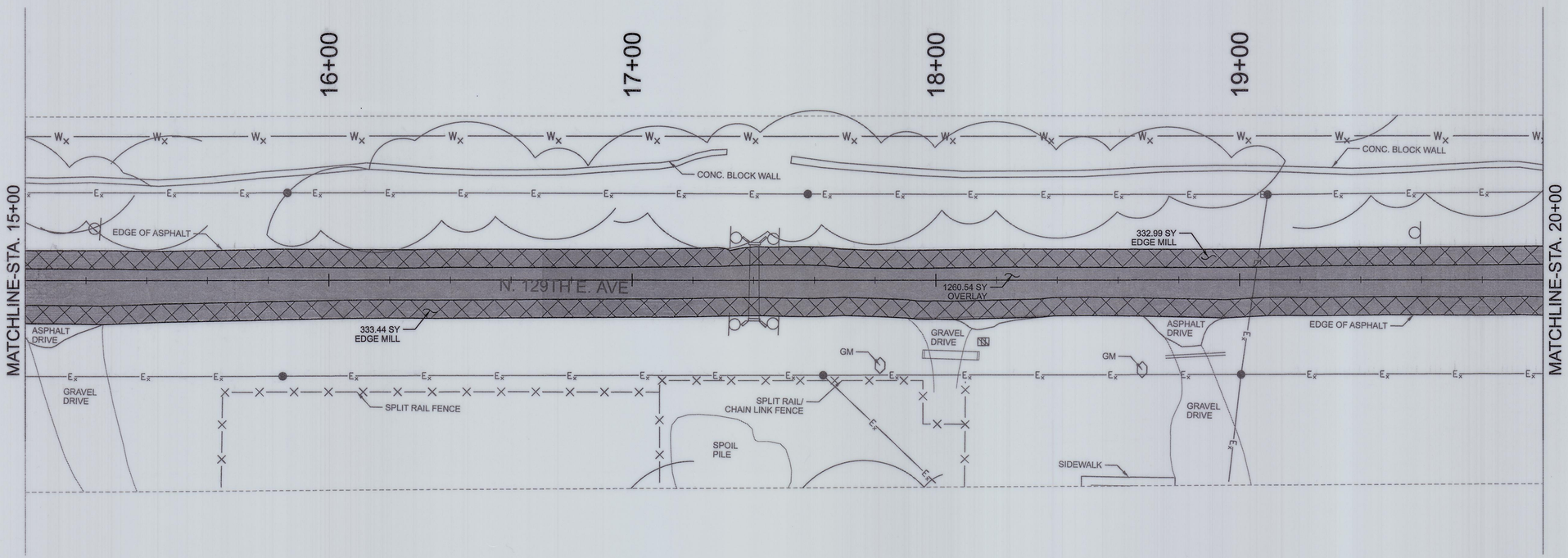

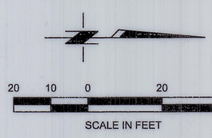

LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

REVISION	BY	DATE

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	DMG	10/24	
HORIZONTAL: NA	LEAD ENGR.	DMG	11/24	
	FIELD MNGR.	DMG	11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25		CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-PnP — DATE 08/2023

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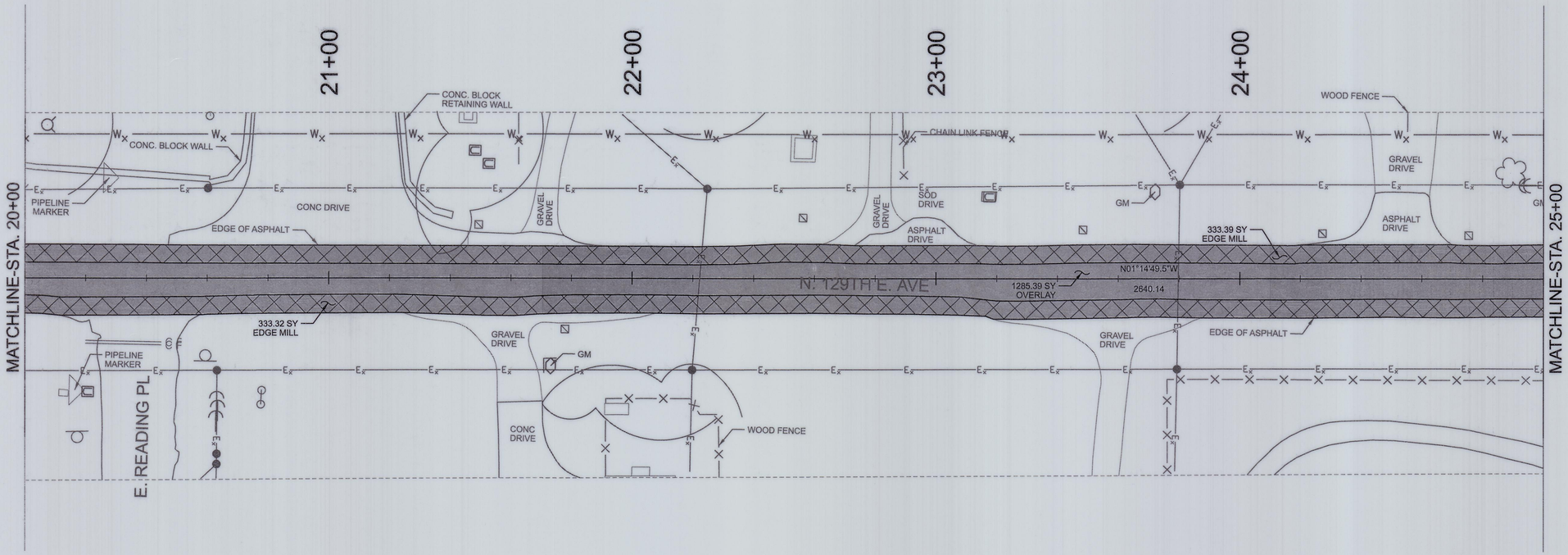

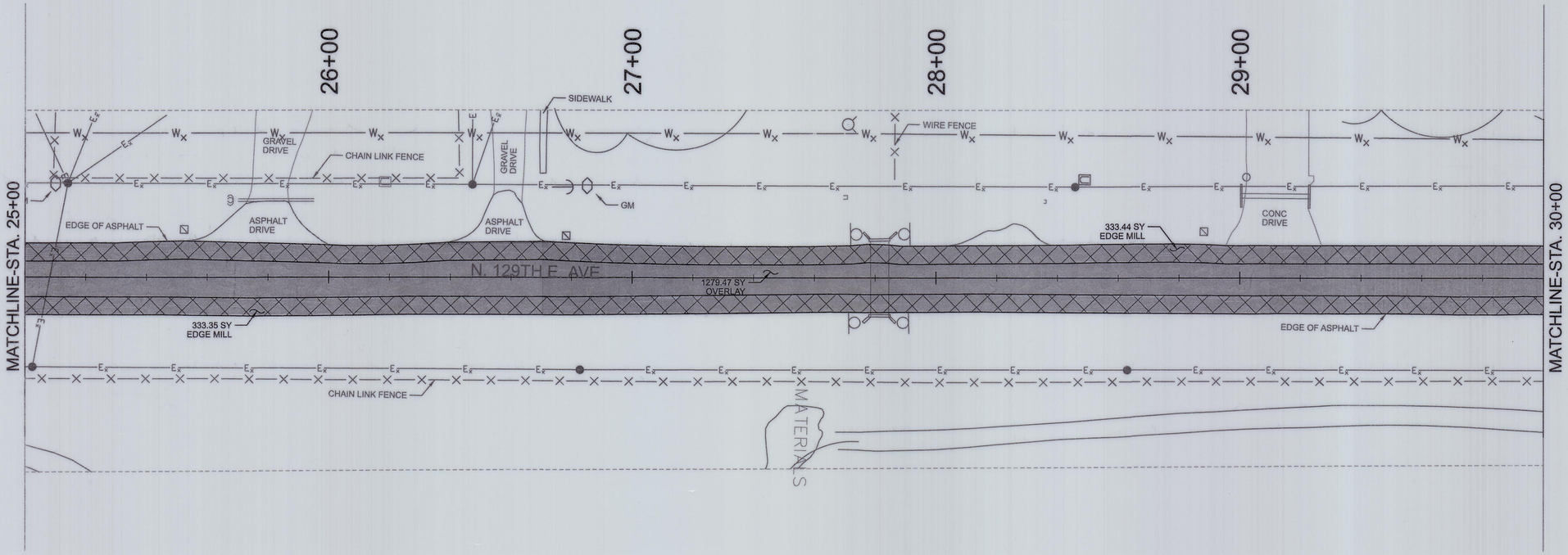

20 10 0 20 40

SCALE IN FEET

LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 08/25/2024 OKLAHOMA

REVISION	BY	DATE

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/24	
HORIZONTAL: NA	LEAD ENGR.	DU	11/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25		CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-PnP — DATE 08/2023

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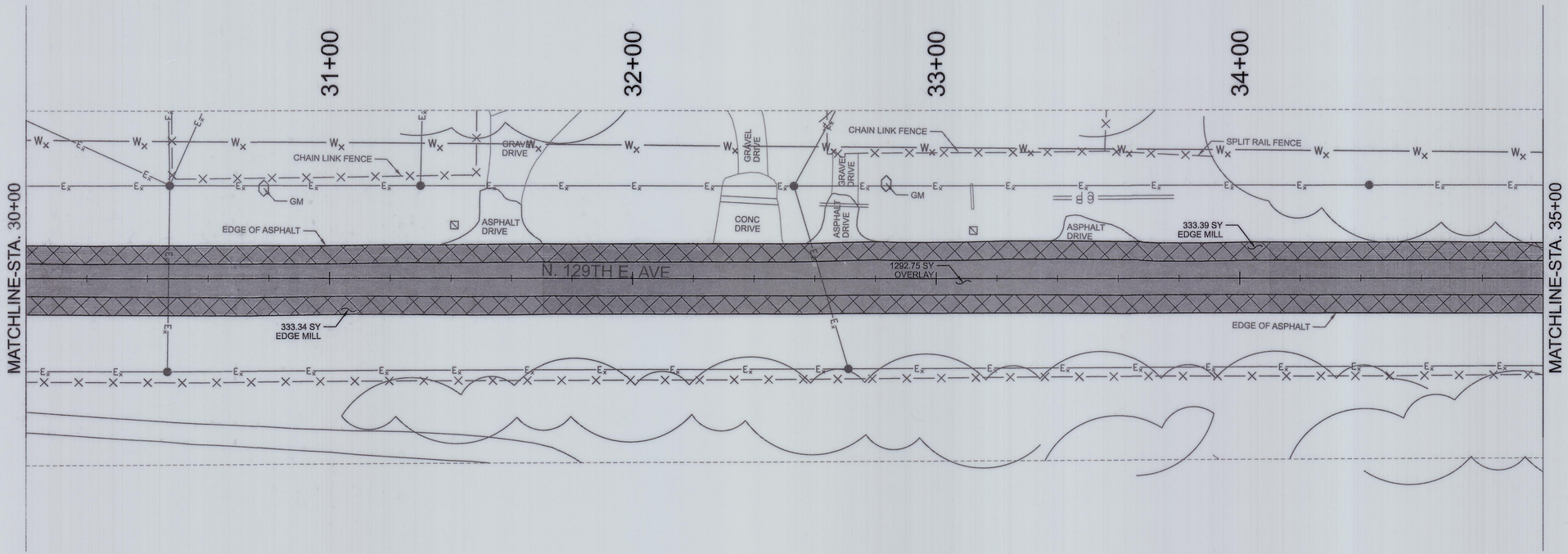

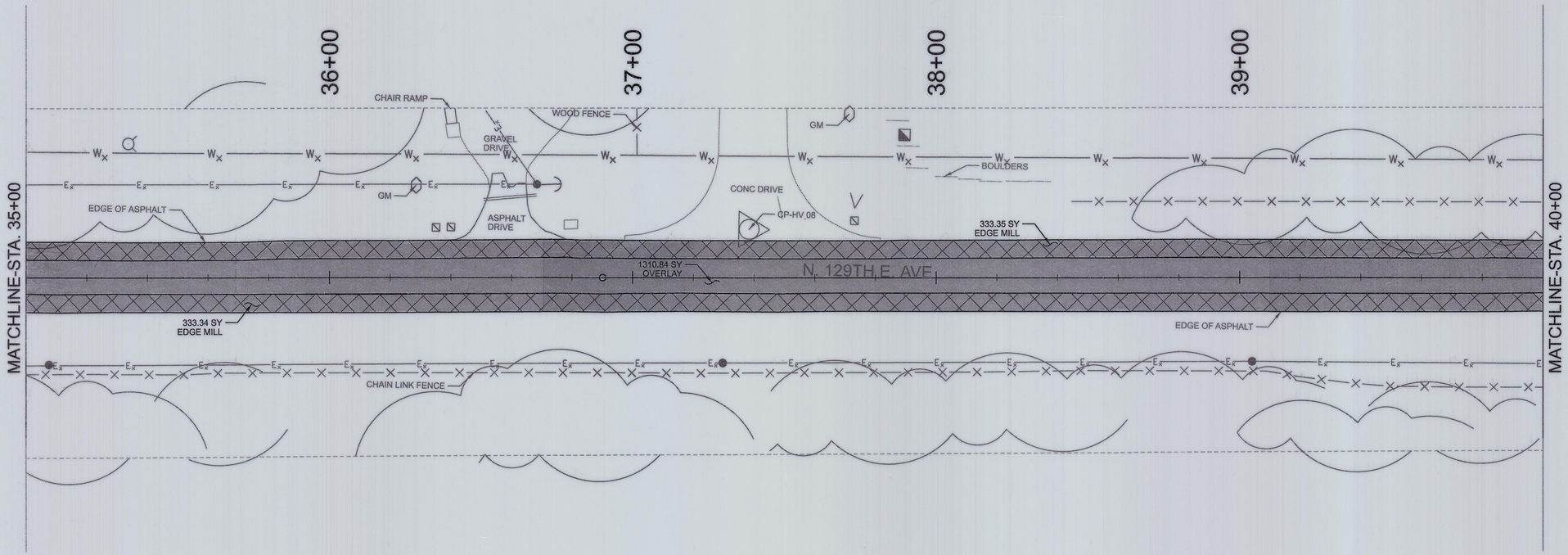

20 10 0 20 40

SCALE IN FEET

LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

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PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RP	10/24	
HORIZONTAL: NA	LEAD ENGR.	DMG	11/25	
	FIELD MNGR.	TGH	11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

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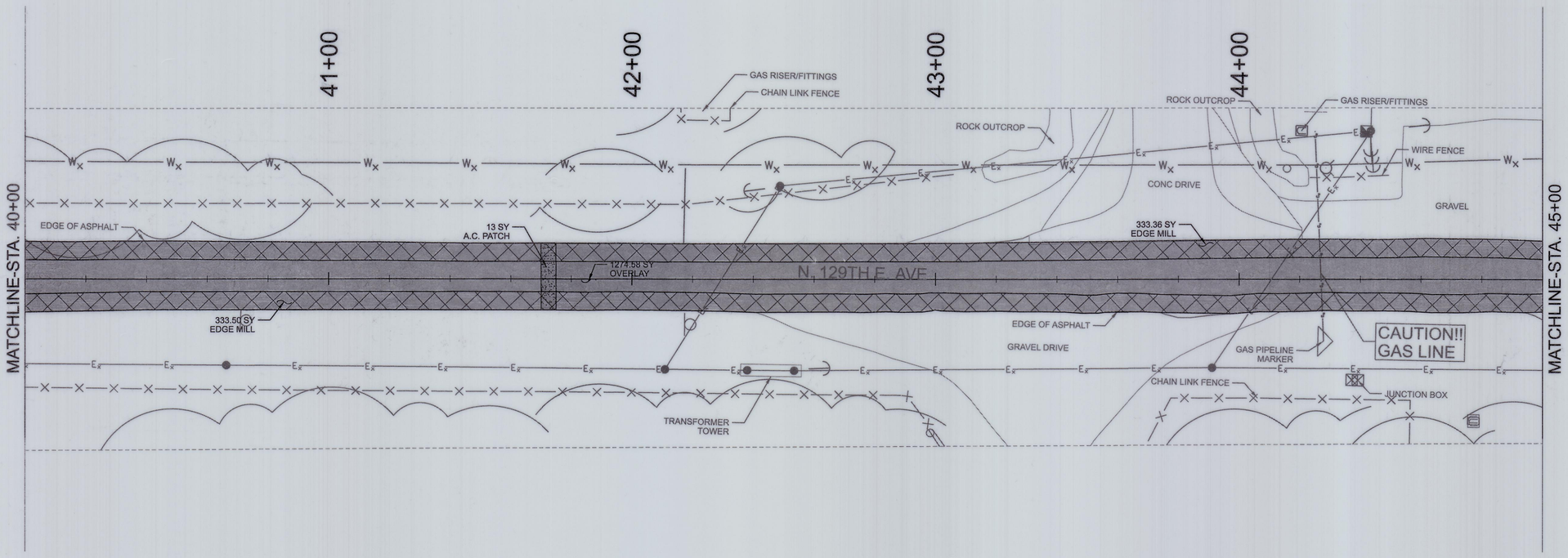

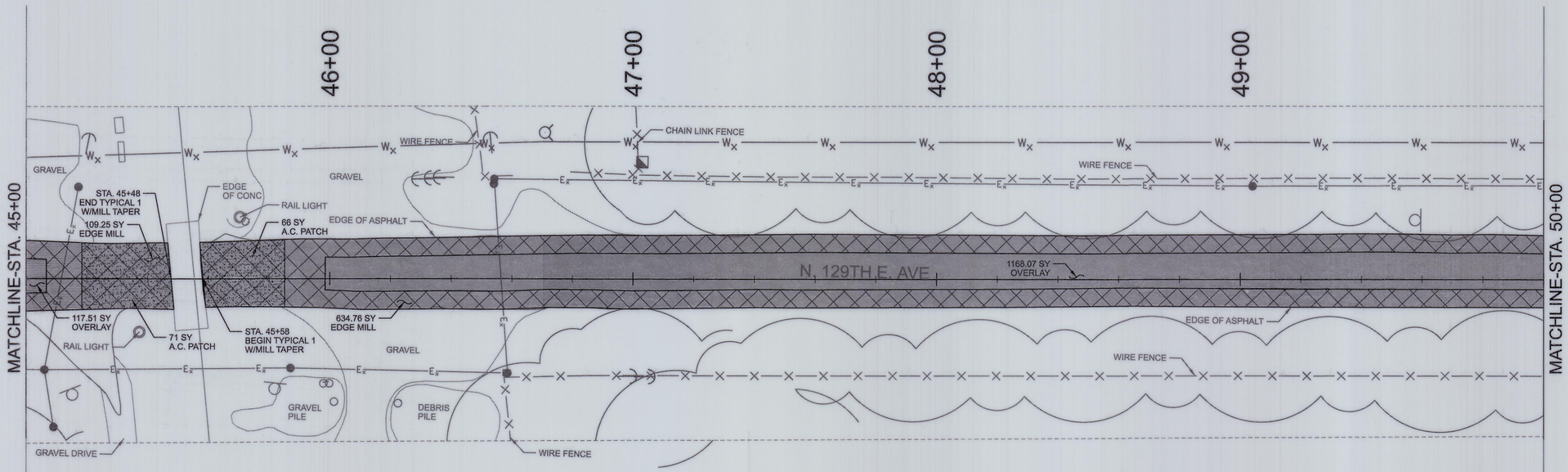

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SCALE IN FEET

LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

DWAIN MIRLER GARNER 18300 09/25/2024 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

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	FIELD MNGR.	TAU	11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

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FILE: 22-53-001-39\DESIGN\SHTS\G-129th-PnP — DATE 08/2023

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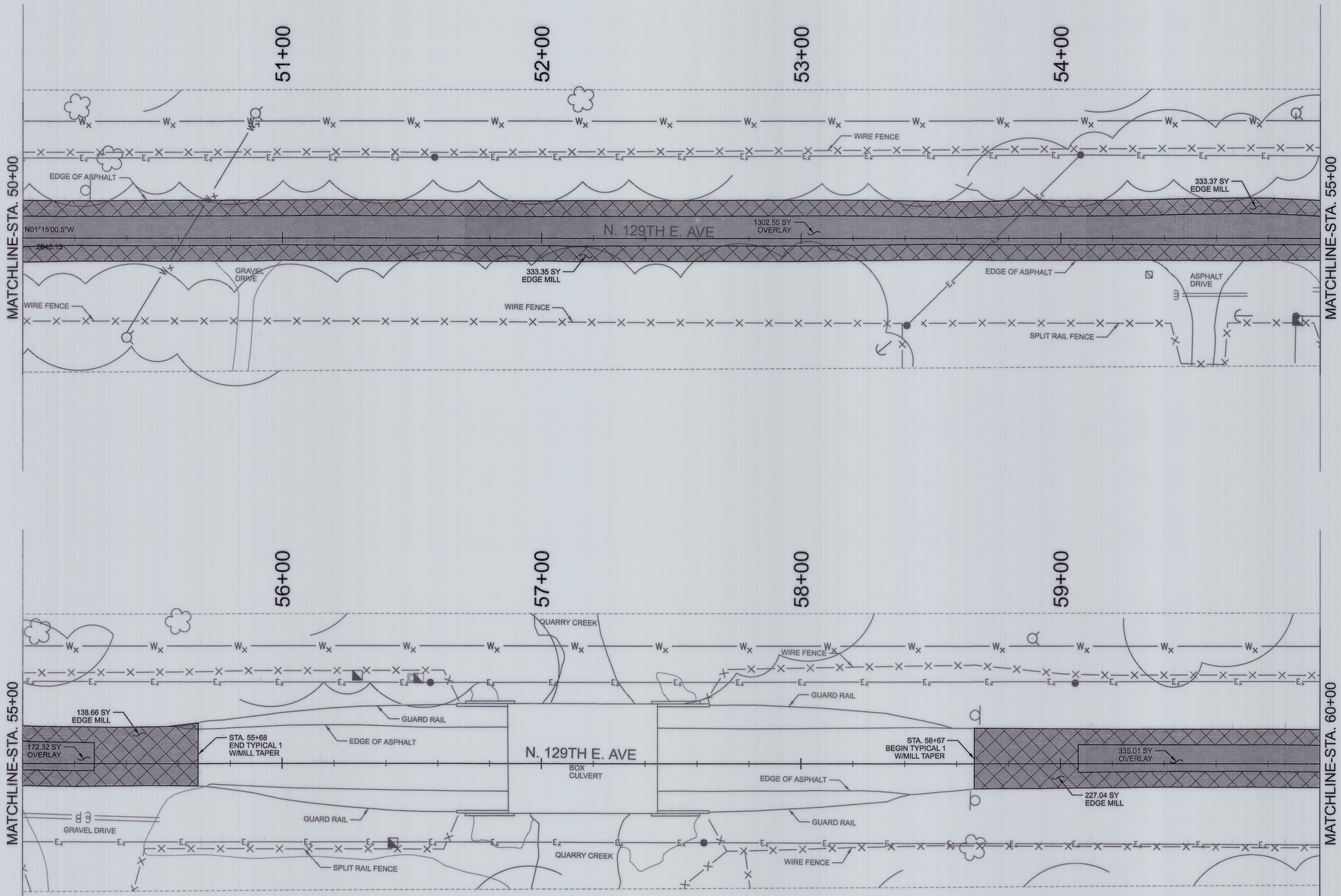

20 10 0 20 40

SCALE IN FEET

LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 1-800-522-6543 OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

REVISION	BY	DATE

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/24	
HORIZONTAL: NA	LEAD ENGR.	DG	4/25	
	FIELD MNGR.			
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

FILE: 22-53-001-39/DESIGN\SHTS\G-129th-PnP

DATE 08/2023

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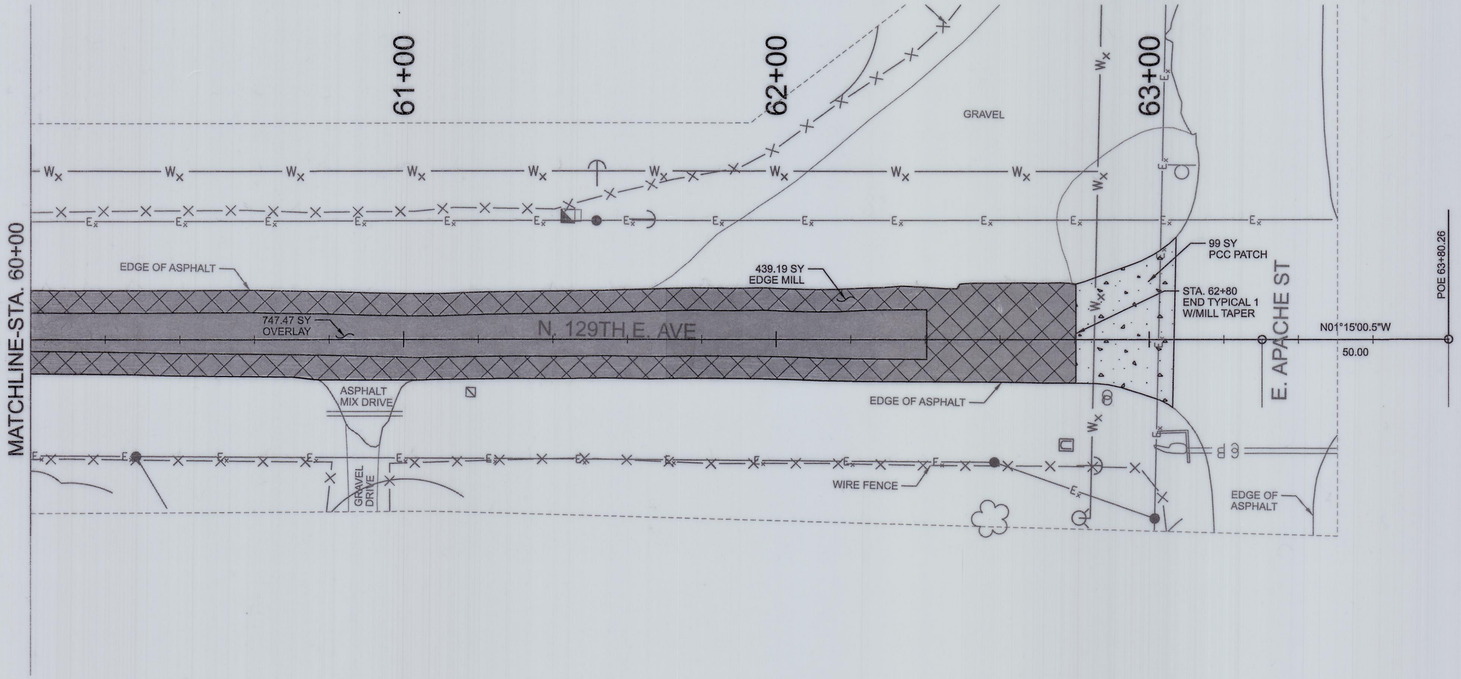
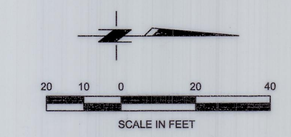
SHEET 15 OF 25 SHEETS





LEGEND

- MILL 0"-2" AND OVERLAY
- A.C. OVERLAY
- FULL DEPTH A.C. PATCH
- FULL DEPTH PCC PATCH

BEFORE YOU DIG CALL OKIE 811 OKIE 1-800-522-6543

REGISTERED PROFESSIONAL ENGINEER
DWAIN MERLE GARNER
18300
09/25/2025
OKLAHOMA

ROADWAY PLAN

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
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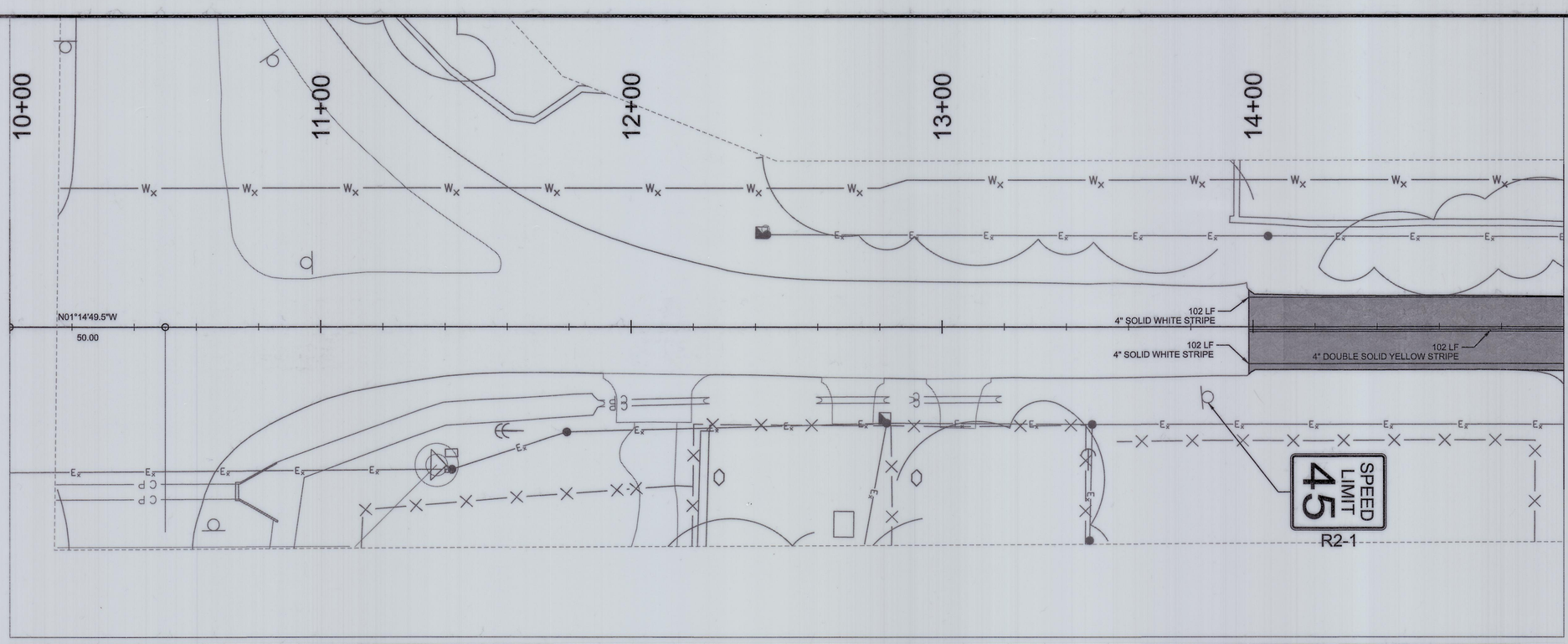
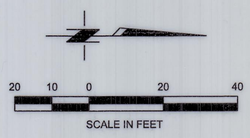
PLAN SCALE: 1"=20'	DRAWN	DMG	3/23
	DESIGNED	DMG	3/23
	SURVEY	CGA	3/23
PROFILE SCALE	PROJ. MNGR.	RAF	11/24
HORIZONTAL: NA	LEAD ENGR.	DMG	4/25
VERTICAL: NA	FIELD MNGR.		11/24
	RECOMMENDED: DEPUTY DIRECTOR		HAS 5.25

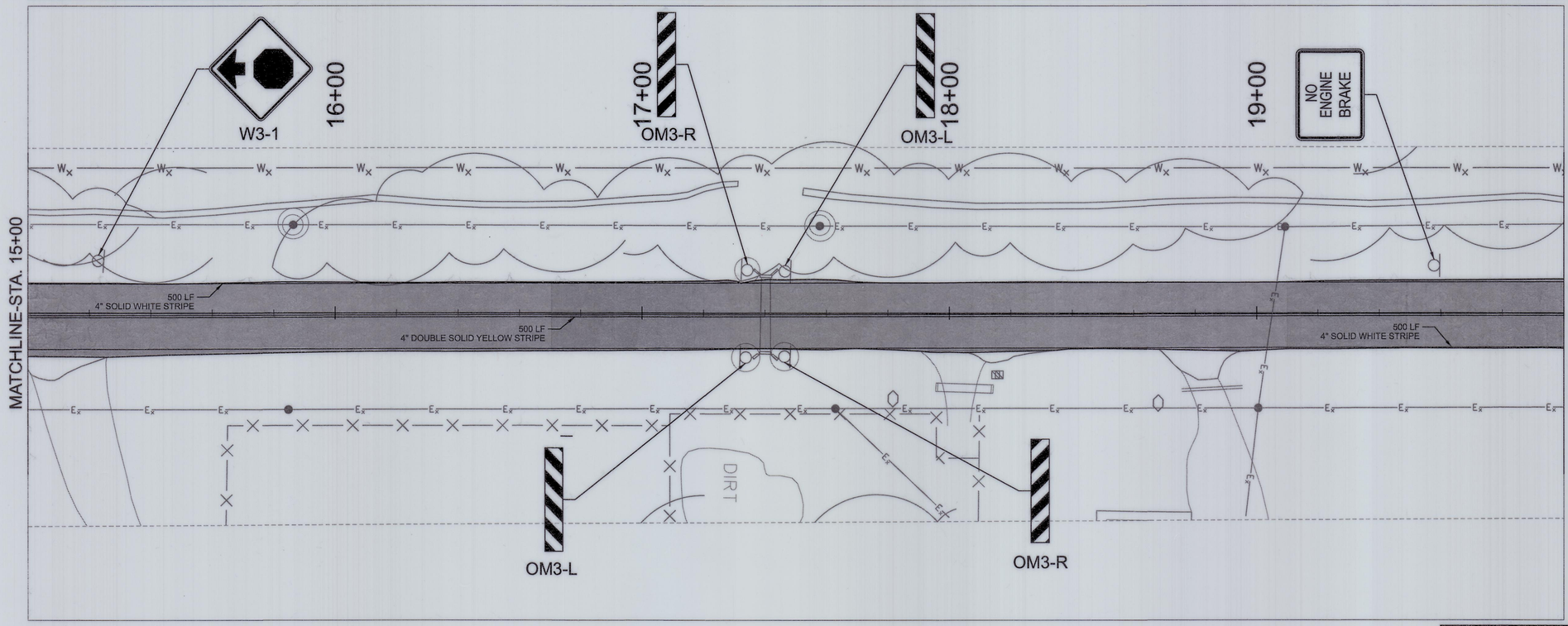
APPROVED: CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-PnP
DATE 08/2023
ATLAS PAGE NO. 228, 293, 229, 294
SHEET 16 OF 25 SHEETS







BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER
DWAIN MERLE GARNER
18300
08/25/2024
OKLAHOMA

REVISION	BY	DATE

TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/24	
HORIZONTAL: NA	LEAD ENGR.			
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25		CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe
DATE 08/2023

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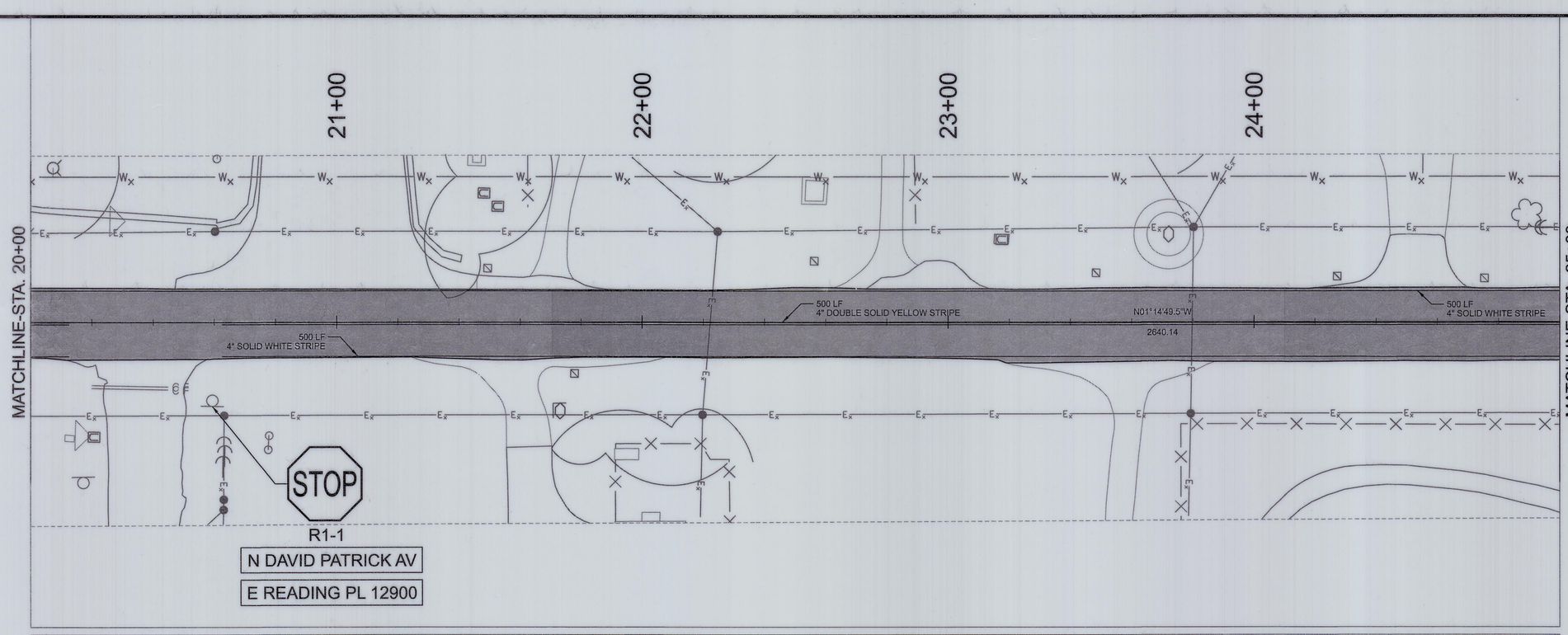
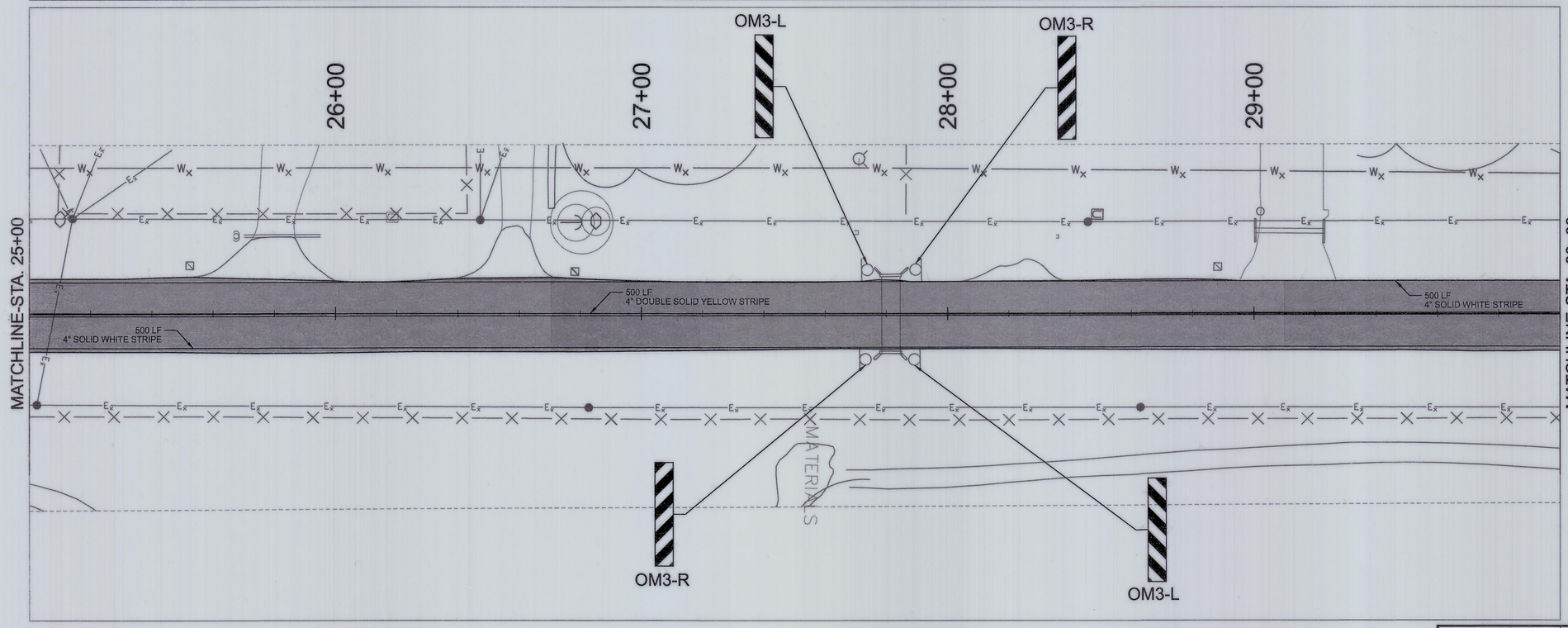
SHEET 17 OF 25 SHEETS





20 10 0 20 40
SCALE IN FEET

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER
DWAIN MERLE GARNER
18300
09/25/2024
OKLAHOMA

TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
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2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/24	
HORIZONTAL:	LEAD ENGR.	MVS	9/25	
NA	FIELD MNGR.	ZEW	11/24	
VERTICAL:	RECOMMENDED:			
NA	DEPUTY DIRECTOR	HAS	5·25	CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe — DATE 08/2023

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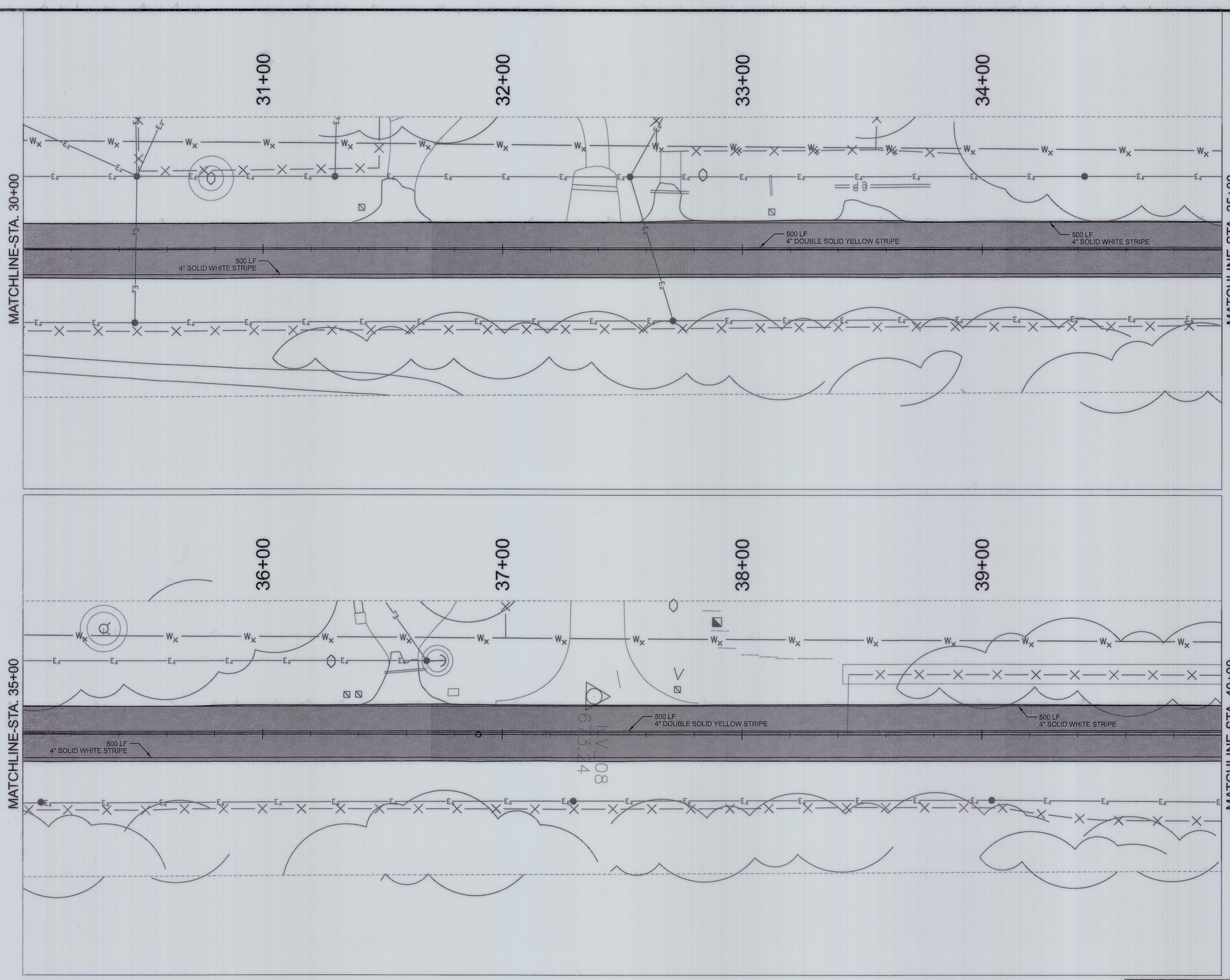


20 10 0 20 40

SCALE IN FEET

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER
DWAIN MIRLE McGARNER
18300
09/25/2024
OKLAHOMA

REVISION	BY	DATE

TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

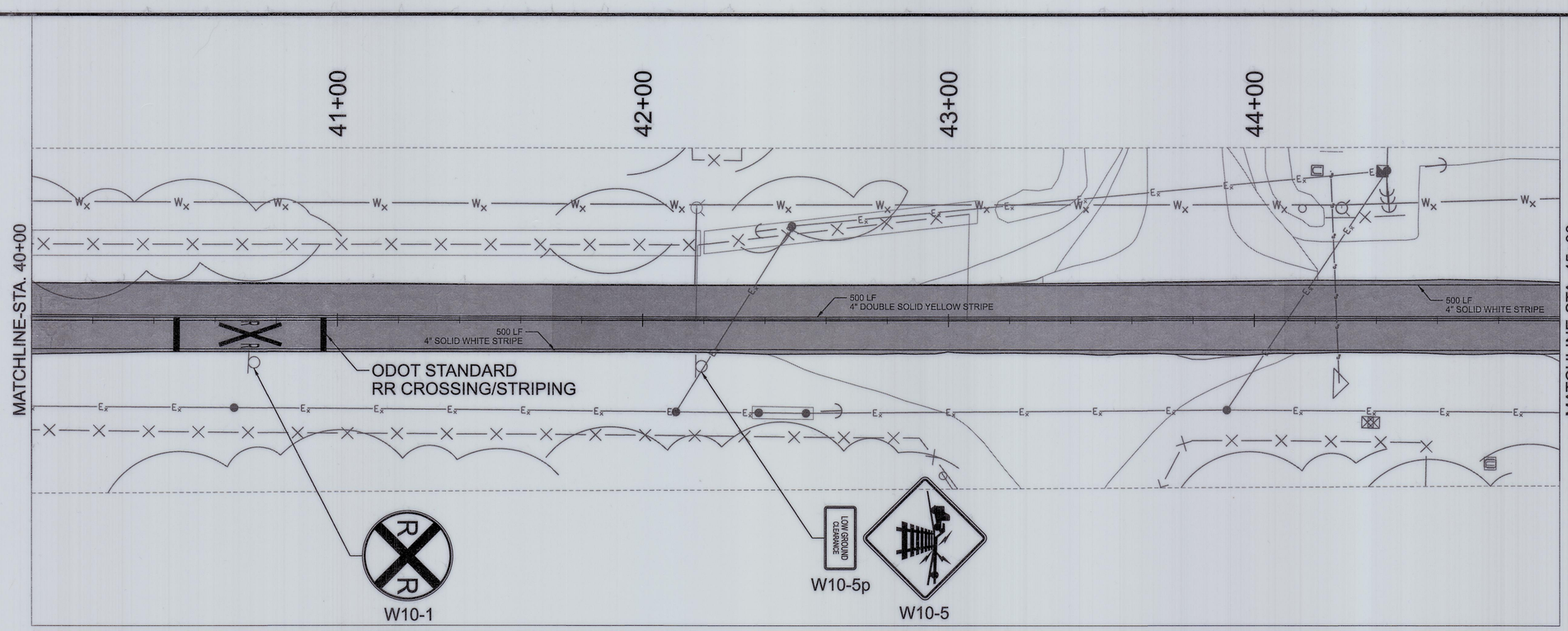
PLANS AND ESTIMATES PREPARED BY:

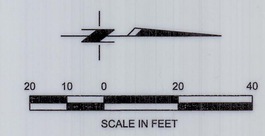
HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

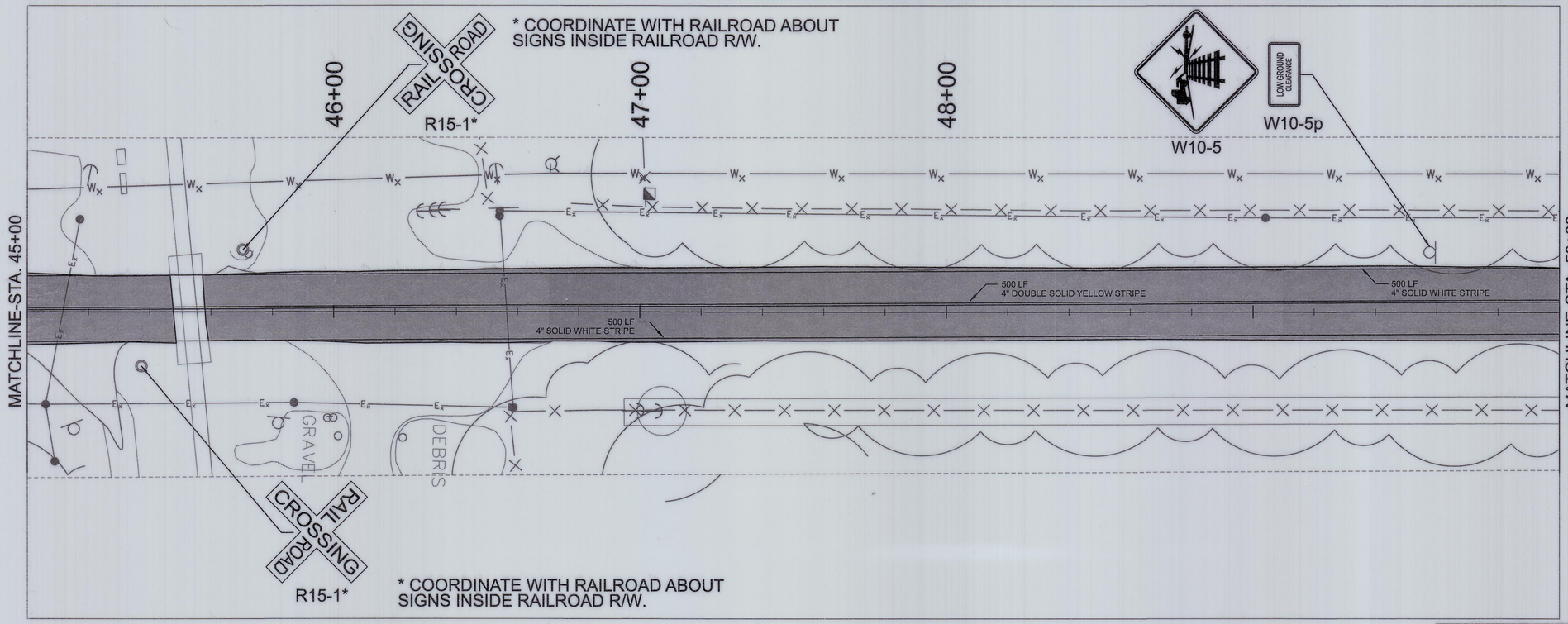
PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RF	10/23	
HORIZONTAL: NA	LEAD ENGR.	MVS	4/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5.25		CITY ENGINEER

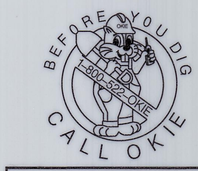
FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe DATE 08/2023

ATLAS PAGE NO. 228, 293, 229, 294 SHEET 19 OF 25 SHEETS









TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RP	12/24	
HORIZONTAL: NA	LEAD ENGR.	MVS	4/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR		4.25.25	CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe DATE 08/2023

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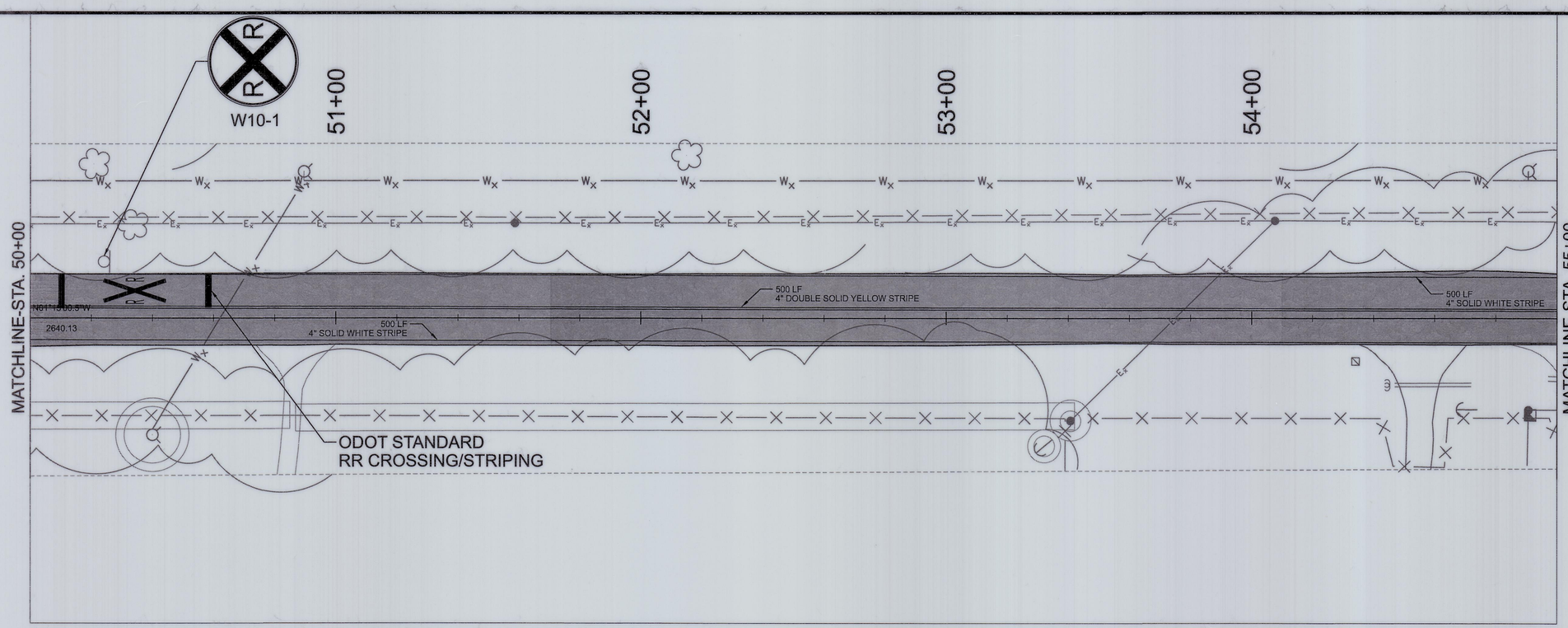

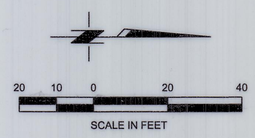

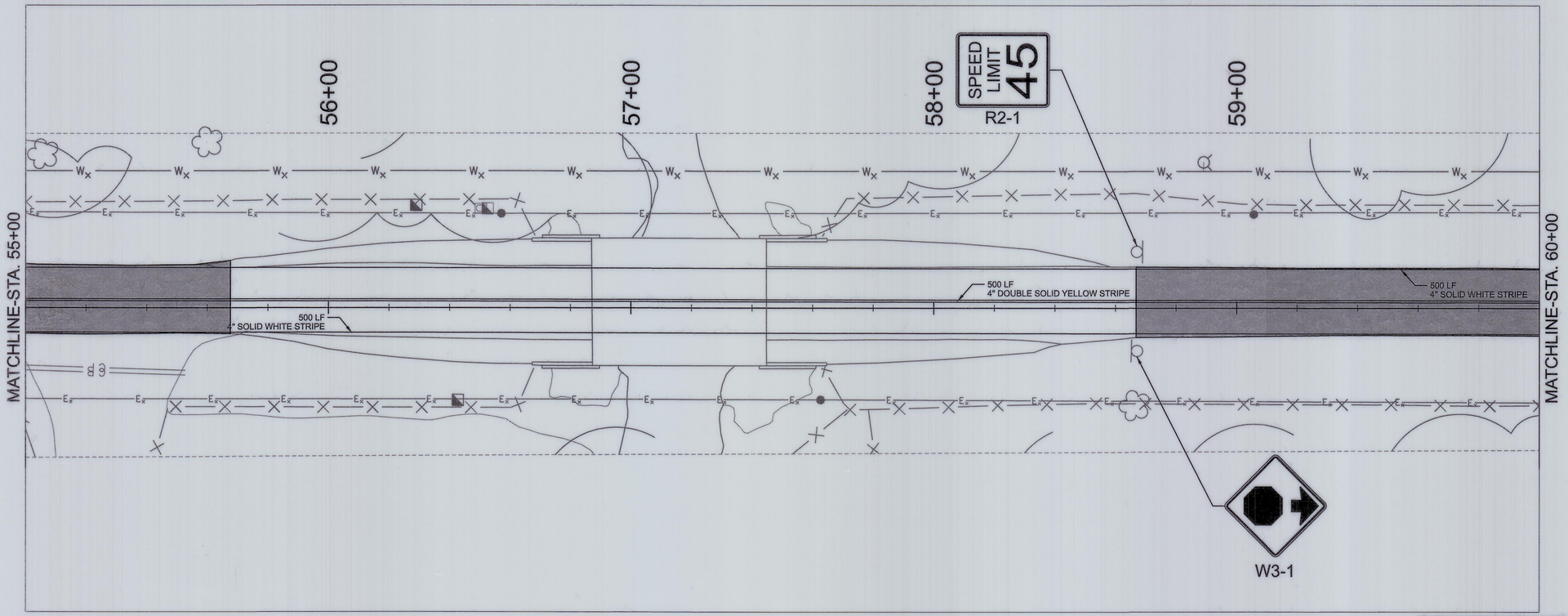

BEFORE YOU DIG CALL OKIE 800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER
DWAIN MERLE McGARNER
18300
08/25/2024
OKLAHOMA

TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23	APPROVED:
	DESIGNED	DMG	3/23	
	SURVEY	CGA	3/23	
PROFILE SCALE	PROJ. MNGR.	RJC	12/23	
HORIZONTAL: NA	LEAD ENGR.	MVS	4/25	
	FIELD MNGR.		11/24	
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS	5-25	CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe

DATE 08/2023

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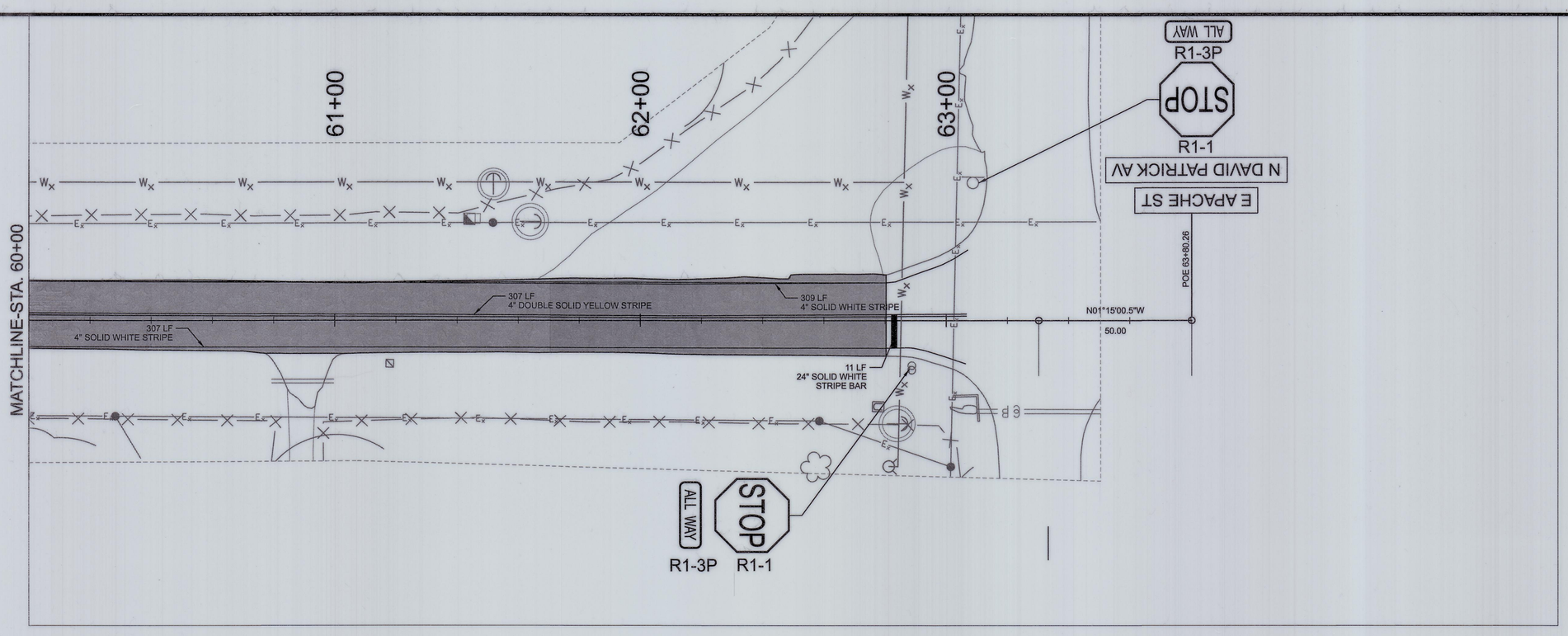

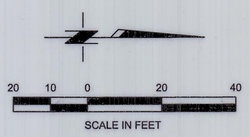

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER
DWAIN MORLES GARNER
18300
09/25/2024
OKLAHOMA

REVISION	BY	DATE

TRAFFIC STRIPING AND SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	3/23
	DESIGNED	DMG	3/23
	SURVEY	CGA	3/23
PROFILE SCALE	PROJ. MNGR.	RJC	10/24
HORIZONTAL: NA	LEAD ENGR.	MVS	4/25
	FIELD MNGR.		11/24
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HBS	5-28

APPROVED: CITY ENGINEER

FILE: 22-53-001-39\DESIGN\SHTS\G-129th-Sign-Stripe DATE 08/2023

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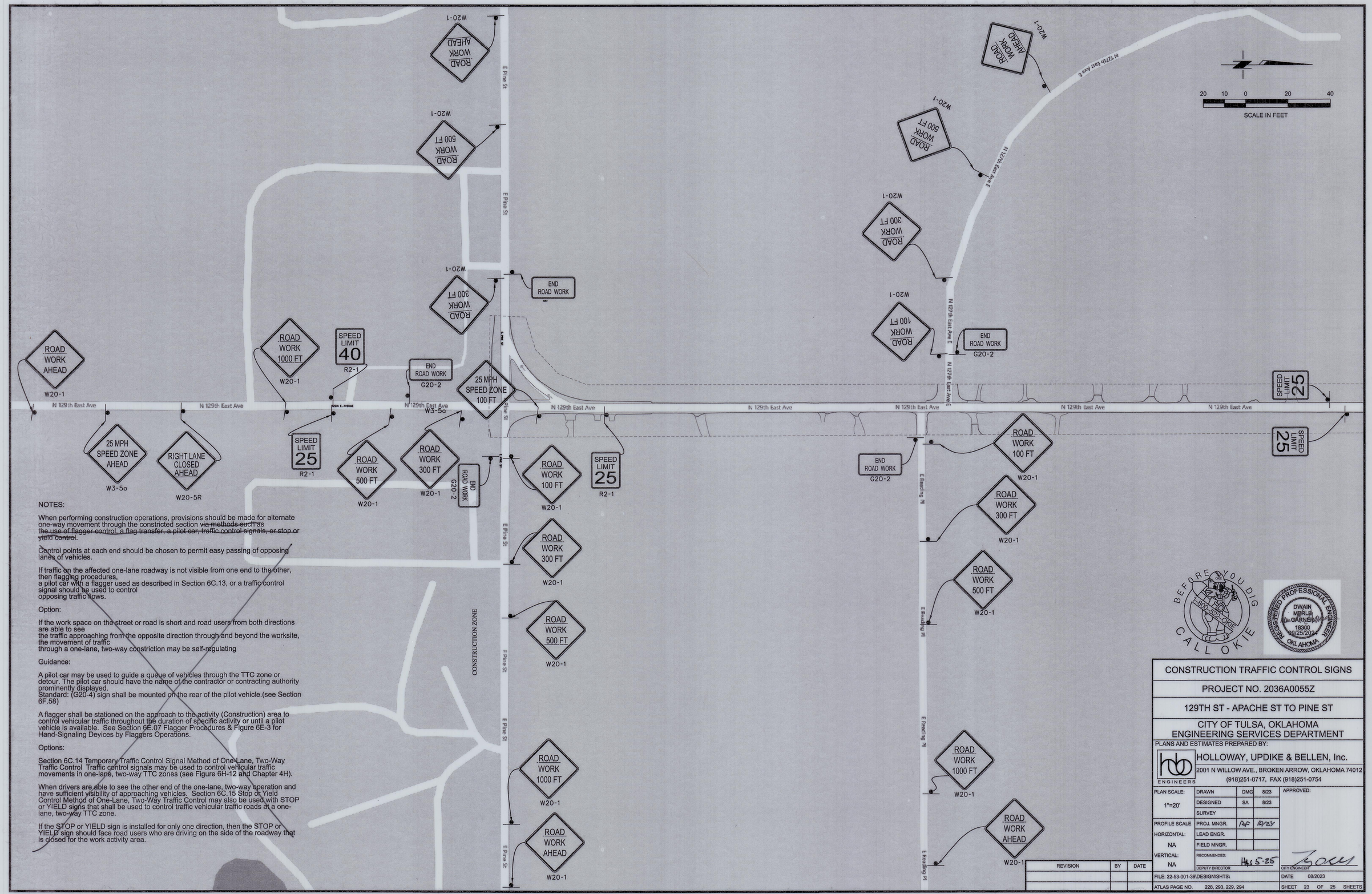

NOTES:

When performing construction operations, provisions should be made for alternate one-way movement through the constricted section ~~via methods such as the use of flagger control, a flag transfer, a pilot car, traffic control signals, or stop or yield control~~.

Control points at each end should be chosen to permit easy passing of opposing lanes of vehicles.

If traffic on the affected one-lane roadway is not visible from one end to the other, then flagging procedures,
a pilot car with a flagger used as described in Section 6C.13, or a traffic control signal should be used to control
opposing traffic flows.

Option:

If the work space on the street or road is short and road users from both directions are able to see
the traffic approaching from the opposite direction through and beyond the worksite, the movement of traffic
through a one-lane, two-way constriction may be self-regulating

Guidance:

A pilot car may be used to guide a queue of vehicles through the TTC zone or detour. The pilot car should have the name of the contractor or contracting authority prominently displayed.
Standard: (G20-4) sign shall be mounted on the rear of the pilot vehicle.(see Section 6F.58)

A flagger shall be stationed on the approach to the activity (Construction) area to control vehicular traffic throughout the duration of specific activity or until a pilot vehicle is available. See Section 6E.07 Flagger Procedures & Figure 6E-3 for Hand-Signaling Devices by Flaggers Operations.

Options:

Section 6C.14 Temporary Traffic Control Signal Method of One-Lane, Two-Way Traffic Control Traffic control signals may be used to control vehicular traffic movements in one-lane, two-way TTC zones (see Figure 6H-12 and Chapter 4H).

When drivers are able to see the other end of the one-lane, two-way operation and have sufficient visibility of approaching vehicles. Section 6C.15 Stop or Yield Control Method of One-Lane, Two-Way Traffic Control may also be used with STOP or YIELD signs that shall be used to control traffic vehicular traffic roads at a one-lane, two-way TTC zone.

If the STOP or YIELD sign is installed for only one direction, then the STOP or YIELD sign should face road users who are driving on the side of the roadway that is closed for the work activity area.

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

CONSTRUCTION TRAFFIC CONTROL SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
ENGINEERS
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	8/23	APPROVED:
	DESIGNED	SA	8/23	
	SURVEY			
PROFILE SCALE	PROJ. MNGR.			
HORIZONTAL: NA	LEAD ENGR.			
	FIELD MNGR.			
VERTICAL: NA	RECOMMENDED:			
	DEPUTY DIRECTOR			CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\ DATE 08/2023

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NOTES:

When performing patching operations, provisions should be made for alternate one-way movement through the constricted section ~~via methods such with the use of flagger control, a flag transfer, a pilot car, traffic control signals, or stop or yield control~~.

Control points at each end should be chosen to permit easy passing of opposing lanes of vehicles.

If traffic on the affected one-lane roadway is not visible from one end to the other, then flagging procedures,
a pilot car with a flagger used as described in Section 6C.13, or a traffic control signal should be used to control
opposing traffic flows.

Option:

If the work space on the street or road is short and road users from both directions are able to see
the traffic approaching from the opposite direction through and beyond the worksite, the movement of traffic
through a one-lane, two-way constriction may be self-regulating

Guidance:

A pilot car may be used to guide a queue of vehicles through the TTC zone or detour. The pilot car should have the name of the contractor or contracting authority prominently displayed.
Standard: (G20-4) sign shall be mounted on the rear of the pilot vehicle.(see Section 6F.58)

A flagger shall be stationed on the approach to the activity (Construction) area to control vehicular traffic throughout the duration of specific activity or until a pilot vehicle is available. See Section 6E.07 Flagger Procedures & Figure 6E-3 for Hand-Signaling Devices by Flaggers Operations.

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Section 6C.14 Temporary Traffic Control Signal Method of One-Lane, Two-Way Traffic Control Traffic control signals may be used to control vehicular traffic movements in one-lane, two-way TTC zones (see Figure 6H-12 and Chapter 4H).

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If the STOP or YIELD sign is installed for only one direction, then the STOP or YIELD sign should face road users who are driving on the side of the roadway that is closed for the work activity area.

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

CONSTRUTION TRAFFIC CONTROL SIGNS

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: 1"=20'	DRAWN	DMG	8/23	APPROVED:
	DESIGNED	SA	8/23	
	SURVEY			
PROFILE SCALE	PROJ. MNGR.	RP	8/23	
HORIZONTAL: NA	LEAD ENGR.			
	FIELD MNGR.			
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR	HAS 5-25		CITY ENGINEER

REVISION	BY	DATE

FILE: 22-53-001-39\DESIGN\SHTS\ DATE 08/2023

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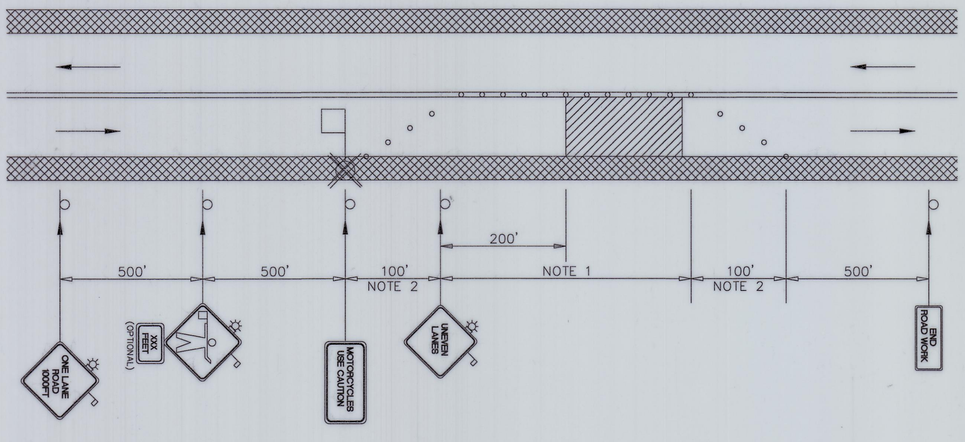
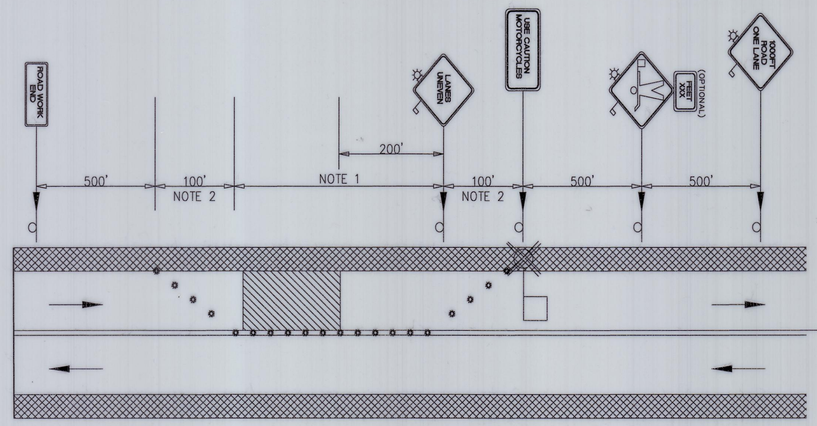


TYPICAL SIGNING FOR COLD MILL, PATCHING & OVERLAY OPERATION

NORTHBOUND TRAFFIC



TYPICAL SIGNING FOR COLD MILL, PATCHING & OVERLAY OPERATION

SOUTHBOUND TRAFFIC

KEY:

- SIGN
- CHANNELIZING CONE
- WORK AREA
- FLAGGER

NOTE 1
MAXIMUM SPACING OF CHANNELIZING DEVICES SHALL BE AS FOLLOWS:

(A) FIRST 250 FEET OF WORK AREA.
(1) 25 FEET FOR CONES AND TUBE CHANNELIZERS.
(2) 50 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

(B) REMAINDER OF WORK AREA.
(1) 50 FEET FOR CONES AND TUBE CHANNELIZERS.
(2) 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS AND DRUMS.

NOTE 2
A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THRU THIS AREA.

THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT CONTACT AT ALL TIMES AND SHALL BE POSITIONED TO PROTECT THE WORKERS.

WHEN NO WORK IS BEING PREFORMED AND TWO LANE TRAFFIC IS OPERATING, FLAGGERS WILL NOT BE REQUIRED. WHENEVER FLAGGERS ARE NOT PRESENT, THE "FLAGGER" SIGNS SHALL BE REMOVED OR COVERED.

SIGNING SHOWN IS FOR ONE APPROACH ONLY.

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE

REGISTERED PROFESSIONAL ENGINEER DWAIN MERLE GARNER 18300 09/25/2024 OKLAHOMA

REVISION	BY	DATE

CONSTRUCTION TRAFFIC CONTROL DETAIL

PROJECT NO. 2036A0055Z

129TH ST - APACHE ST TO PINE ST

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

HOLLOWAY, UPDIKE & BELLEN, Inc.
2001 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74012
(918)251-0717, FAX (918)251-0754

PLAN SCALE: NA	DRAWN	DMG	8/23	APPROVED:
	DESIGNED	DMG	8/23	
	SURVEY			
PROFILE SCALE	PROJ. MNGR.	RP	8/25	
HORIZONTAL: NA	LEAD ENGR.			
	FIELD MNGR.			
VERTICAL: NA	RECOMMENDED: DEPUTY DIRECTOR		8-25-25	CITY ENGINEER
FILE: 22-53-001-39\DESIGN\SHTS\				DATE 08/2023
ATLAS PAGE NO. 228, 293, 229, 294				SHEET 25 OF 25 SHEETS