

SYMBOL LEGEND

- == SS == EXISTING SANITARY SEWER LINE
- == RCP == EXISTING STORM DRAIN LINE
- FO EXISTING FIBER OPTIC LINE
- T EXISTING TELEPHONE RISER
- EXISTING OVERHEAD ELECTRICAL LINE
- PUG EXISTING UNDERGROUND ELECTRICAL LINE
- E EXISTING ELECTRICAL RISER
- G EXISTING NATURAL GAS LINE
- W EXISTING WATER LINE
- △ EXISTING ELECTRICAL TRANSFORMER
- EXISTING PAVEMENT EDGE
- EXISTING CONCRETE JOINT
- EXISTING PROPERTY LINE
- EXISTING R/W
- EXISTING EASEMENT
- EXISTING BUILDING LINE
- X EXISTING FENCE
- EXISTING SIGN
- WV EXISTING WATER VALVE
- WM EXISTING WATER METER
- FH EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM MANHOLE
- GM EXISTING GAS METER
- EXISTING HVAC UNIT
- LP EXISTING LIGHT POLE
- PP EXISTING POWER POLE
- EXISTING GUY WIRE
- EXISTING TRAFFIC SIGNAL PULL BOX
- EXISTING TREE
- MB EXISTING MAILBOX
- Ⓜ EXISTING COMMUNICATION MANHOLE
- BORE HOLE
- ⊕ BENCHMARK
- △ VERTICAL CONTROL POINT
- 21 PARCEL NUMBER
- PROPOSED CONSTRUCTION

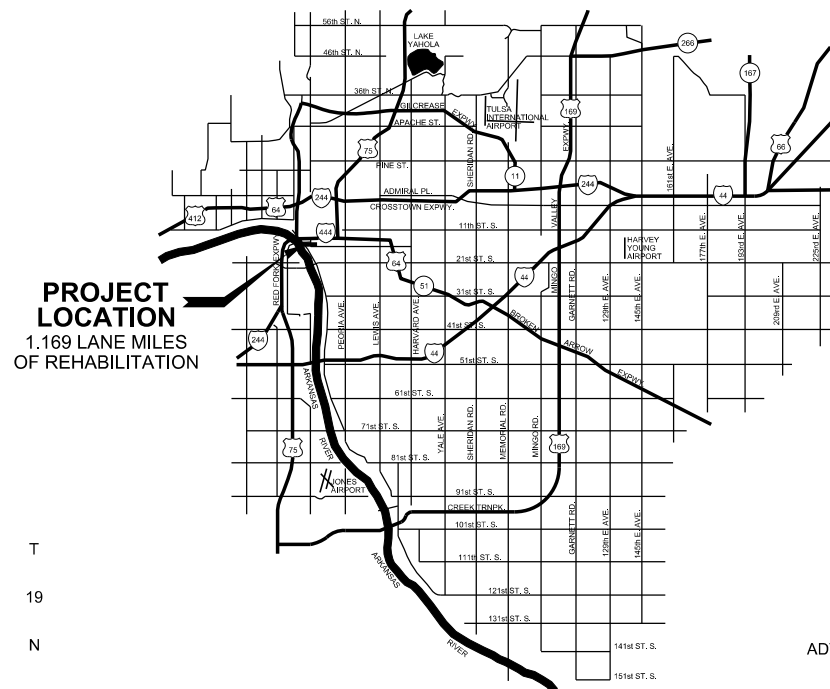
CONSTRUCTION PLANS FOR NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 4067 BETWEEN E. US-64 & RIVERSIDE DR./ W. 12th ST. & W. 15th ST. PROJECT NO. 2036N4067Z | TMUA-W 22-16

ACCOUNT NO. 2036N4067Z.STREETS.NARTRHB.4282.42813122-541106

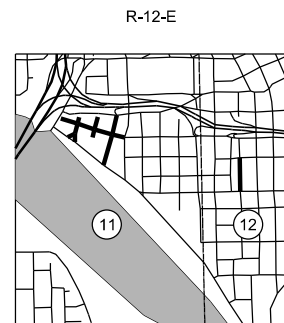
FOR INDEX OF SHEETS
& STANDARDS
SEE SHEET 2

IN ACCORDANCE WITH ODOT SECTION 105.14, THE CITY OF TULSA IS ANTICIPATING THAT THE SUCCESSFUL CONTRACTOR WILL UTILIZE THE APPROPRIATE MEANS AND METHODS TO ACCOMPLISH THE WORK DESCRIBED IN THE PLANS WITHOUT CAUSING COLLATERAL DAMAGE TO THE EXISTING INFRASTRUCTURE. THE ANTICIPATED CONSTRUCTION PHASING WILL MINIMIZE THE TIME BETWEEN MILLED STREETS AND NEW ASPHALT PLACEMENT. CURRENT CITY OF TULSA CONSTRUCTION BUDGETS DO NOT ALLOW FOR THE GROWTH OF THE PROJECT BEYOND THE EXTENTS DETAILED IN THE PLANS.

PUBLIC WORKS DEPARTMENT



PROJECT LOCATION
1.169 LANE MILES
OF REHABILITATION



LOCATION MAP
SCALE: 1"=4000'

ENTIRE PROJECT IS WITHIN THE CORPORATE AND URBAN LIMITS
OF THE CITY OF TULSA



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

SURVEY CONTROL DATA

- Horizontal Control:**
- (A) The bearings and coordinates used for this survey are based on the Oklahoma State Plane Coordinate System, North Zone - NAD 83 DATUM
 - (B) Linear Unit is U.S. Survey Foot
 - (C) Accuracy - 3rd Order or better
- Vertical Controls:**
- (A) Level Datum is NAVD 1988
 - (B) Accuracy - 3rd Order or better
 - (C) Permanent Benchmark: (ADS 77 RESET)

UTILITY COORDINATION

UTILITY	CONTACT	PHONE NO.
CITY OF TULSA	TONY GLYNN	918-596-9245
AT&T	EMERGENCY	800-288-2020
COX COMMUNICATIONS	CUSTOMER SERVICE	918-806-6000
ONG	EMERGENCY	800-664-5463
AEP/PSO	EMERGENCY	888-216-3523

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINANCE #24616.

APPROVED BY:

CITY ENGINEER DATE: 5/21/2026

 DIRECTOR OF WATER AND SEWER DATE: 5-21-2026

ADVERTISEMENT DATE: 05.29.26



BENHAM DESIGN, LLC.
15 West 6th Street, Suite 900
Tulsa, Oklahoma 74119
(918) 492-1600

PREPARED BY:

JARED PODOLNY, P.E.
 OK P.E. NO. 25822
 PROJECT ENGINEER



DATE: 8/30/2024

INDEX OF SHEETS

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THE FOLLOWING CITY STANDARDS WILL BE REQUIRED

STD. NO.	STANDARD NAME	STD. NO.	STANDARD NAME
102	PROJECT SIGN	608A	STREET NAME SIGNS
126	STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE	608B	TRAFFIC SIGNS
304	BEDDING DETAIL - RIGID PIPE	702	RESIDENTIAL CONCRETE DRIVEWAY ASPHALT STREET
304A	TRENCH DETAIL - WATERLINE	704	RESIDENTIAL ASPHALT DRIVEWAY ASPHALT STREET
305	BEDDING DETAIL - FLEXIBLE PIPE	713	PAVEMENT REMOVAL AND REPLACEMENT
306	TRENCH DETAIL CONSTRUCTION ADJACENT TO ROADWAY	714	PAVEMENT CUTS
307	BORE/OPEN CUT CONDUIT DETAIL	725	STANDARD PAVEMENT PATCH AND REPAIR
308	COMBINATION AIR VACUUM / AIR RELIEF, CHECK VALVES, AND VAULTS	726	ASPHALT PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL AND COLLECTOR STREETS
309	FIRE HYDRANT	727	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL, AND COLLECTOR STREETS SHEET 1 OF 2
311	SAMPLING TAP ON 4" - 12" WATERLINES	729	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL, AND COLLECTOR STREETS SHEET 2 OF 2
312	FRAME AND LID FOR WATER VAULTS	730	STANDARD ASPHALT PAVEMENT CUT AND REPAIR
313	VALVE BOX	731	STANDARD CONCRETE PAVEMENT CUT AND REPAIR
315	THRUST BLOCKS AND TRENCH CONDITIONS	758	RESIDENTIAL STORM WATER CURB OPENING
317	HDPE-DUCTILE IRON FITTINGS DETAILS 1 OF 2	790	STANDARD SIDEWALK RAMP
318	HDPE - DUCTILE IRON FITTING DETAILS 2 OF 2		
319	HDPE SPLICE AND FIRE HYDRANT DETAILS		
320	HDPE REALIGNMENT DETAILS		
321	HDPE WALL ANCHOR DETAILS		
322	LOCATOR BALL PLACEMENT DETAIL		
327	COMBINATION AIR VACUUM/RELIEF VALVE VAULT FOR 2" ARV LESS THAN 5 LBS. IN WEIGHT		
401	MANHOLE GRADE ADJUSTMENT		
414	MANHOLE ADJUSTING RING		
501	STANDARD METER SETTINGS FOR 5/8" X 3/4" AND 3/4" WATER SERVICE		
501A	STANDARD METER SETTINGS FOR 5/8" X 3/4" AND 3/4" WATER SERVICE (AQUAPEX BLUE)		
505A	METER CAN WITH RIM AND LID FOR 5/8", 3/4", AND 1" WATER METER CAN INSTALLATION FOR UNPAVED AREAS		

THE FOLLOWING ODOT STANDARDS WILL BE REQUIRED

ROADWAY DESIGN		TRAFFIC CONTROL	
BMPR-0	BEST MANAGEMENT PRACTICE REFERENCE MATRIX	TCS1-1-01	TRAFFIC CONTROL CONSTRUCTION NOTES
TESCA-0	TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS	TCS2-1-00	TRAFFIC CONTROL TABLES AND CHARTS
RSF-0	REINFORCED SILT FENCE INSTALLATION AND APPLICATIONS	TCS4-1-01	TRAFFIC CONTROL DEVICES
SCE-0	STABILIZED CONSTRUCTION EXIT	TCS5-1-00	TYPICAL SIGN INSTALLATION
SSS-2-1	SOLID SLAB SODDING	TCS6-1-02	CHANNELIZING DEVICES
ASCD-6-1	ASPHALT SURFACING CONSTRUCTION DETAILS	TCS7-1-02	ADVANCE WARNING SIGNS
LTU-5-1	LOAD TRANSFER UNITS FOR CONCRETE PAVEMENT JOINTS	TCS8-1-00	CONSTRUCTION SIGNS
PED-4-1	PAVEMENT EDGE DRAIN	TCS9-1-01	CONSTRUCTION SIGNS
		TCS14-1-00	CONSTRUCTION SIGNS
		TCS19-1-01	CONSTRUCTION SIGNS

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Jared Podolny
 REGISTERED PROFESSIONAL ENGINEER
 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024

INDEX & STANDARDS

NON-ARTERIAL STREET REHABILITATION
 MZ 4067
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CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

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



REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
			1"=NA	DESIGNED	JPP	8/30/24	<i>J. Podolny</i> CITY ENGINEER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	<i>PSP</i>	<i>12/24</i>	
			HORIZONTAL:	FIELD MGR	<i>D</i>	<i>2/26</i>	
			VERTICAL:	LEAD ENGR	<i>Bai</i>	<i>3/26</i>	
			1"=NA	RECOMMENDED	<i>HAS</i>	<i>3-26</i>	
				DESIGN MANAGER			
			FILE: 1400387-C-Index.dgn				DATE: AUGUST 2024
			ATLAS PAGE NO.: 4, 5				SHEET 2 OF 33 SHEETS

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6/3/2026

EARTHWORK / EROSION CONTROL / SITE PREPARATION PAY ITEM NOTES (11/14/2018)

- 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 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. THIS QUANTITY INCLUDES AN ADDITIONAL 10% ABOVE PLAN QUANTITY FOR UNDERCUTTING OF UNSUITABLE SUBGRADE MATERIAL OR ADDITIONAL PATCHING AS DIRECTED BY THE ENGINEER.
- 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 LUMP SUM BID FOR THIS ITEM.
- E-8 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.
- E-9 INCLUDES 15 TYPE 1-B FILTERS.
- 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 / STRUCTURE PAY ITEM NOTES (11/14/2018)

- 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.

NOTE S8 (50) TABLE			
BINDER ² 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.

¹ USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALS BASED ON 20 YEARS.
² PG 70-28 OK OR 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 RAMP 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 NOT USED.
- S-11 NOT USED.
- 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 THIS ITEM SHALL BE MEASURED AS THE ACTUAL AMOUNT OF CURB AND/OR GUTTER INSTALLED. NO PAYMENT WILL BE MADE FOR CURB AND/OR GUTTER THROUGH DRIVEWAYS AND INLETS.
- S-16 CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.
- S-17 ONE SIDEWALK PANEL ON EACH SIDE OF DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK OR MATCH EXISTING DRIVEWAY THICKNESS, WHICHEVER IS GREATER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE COST OF THE THICKENED SIDEWALK THROUGH THIS AREA.
- 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 PAY ITEM NOTES (11/14/2018)

- 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 NOT USED.
- R-5 ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- R-6 NOT USED.

GENERAL PAY ITEM NOTES (11/14/2018)

- 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 NOT USED.
- G-8 NOT USED.
- 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.

Jared Podolny
 REGISTERED PROFESSIONAL ENGINEER
 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024

PAY ITEMS & NOTES (2)
 NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16
 CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
			1"=NA	DESIGNED	JPP	8/30/24	<i>TOSHI</i> CITY ENGINEER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	PJP	8/24	
			HORIZONTAL	FIELD MGR	PH	2/26	
			VERTICAL	LEAD ENGR	PH	3/26	
			1"=NA	RECOMMENDED	PH	3-26	
				DESIGN MANAGER	HAI	3-26	
			FILE: 1400387-C-Pay Items 02.dgn				DATE: AUGUST 2024
			ATLAS PAGE NO.: 4, 5				SHEET 4 OF 33 SHEETS



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DRAINAGE PAY ITEM NOTES (11/14/2018)


- D-1 THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS. 752, 753, 754, 761, 762, 769A, 769B AND 775.
- D-2 THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MAN-HOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.
- D-3 NOT USED.
- D-4 NOT USED.
- D-5 NOT USED.
- D-6 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.
- D-7 INCLUDES THE COST REQUIRED TO MAKE CONNECTION AND REMOVAL OF EXISTING INLETS. THE COST OF PC CONCRETE CURB AND GUTTER THROUGH THE INLET, 5' EACH SIDE OF THE INLET, AND THE PC CONCRETE INLET APRON SHALL BE INCLUDED. GRATE AND FLOWLINE ELEVATIONS SHALL MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED IN THE PLANS.
- D-8 QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND STREET CURB INLETS AND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.
- D-9 ALL INLETS, COMPLETE IN PLACE, SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. THIS PAY ITEM INCLUDES ANY INLET FRAME(S), GRATE(S), HOOD(S) AND CONCRETE REQUIRED FOR COMPLETE INSTALLATION OF STRUCTURE PER THE CONSTRUCTION DOCUMENTS.
- D-10 NOT USED.
- D-11 NOT USED.
- D-12 NOT USED.
- D-13 NOT USED.
- D-14 NOT USED.
- D-15 NOT USED.


ROADWAY PAY ITEM NOTES (11/14/2018)


- 101 COST OF SELECT BACKFILL AND COMPACTION, BEHIND THE CURB, SHALL BE INCLUDED IN PRICE BID FOR CURB AND GUTTER AS SHOWN ON THE TYPICAL SECTIONS.
- 102 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA.
- 103 SHALL INCLUDE ALL LABOR, EQUIPMENT, AND ASSOCIATED COSTS TO COMPLETE THE REQUIRED BID ITEM TO THE FULL EXTENT REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
- 104 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS.
- 105 ALL HYDRANTS, VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO SOUTH YARD, 2317 S JACKSON. PAYMENT TO BE MADE UNDER URBAN RIGHT OF WAY RESTORATION. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 106 CONTRACTOR SHALL ENSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN URBAN RIGHT OF WAY RESTORATION. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 107 FULL PANEL REPLACEMENT SHALL HAVE DOWEL JOINTED TRANSVERSE JOINTS PER ODOT STD. NO. LTU-5-1. ALL COSTS FOR DOWELED JOINTS IN FULL DEPTH PATCHING SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 108 COST FOR REMOVAL OF ABANDONED UTILITY PIPE LINES THAT INTERFERE WITH CONSTRUCTION SHALL BE INCLUDED IN PRICE BID FOR UNCLASSIFIED EXCAVATION.
- 109 TULSA TOUGH TRACK MUST BE CLEANED AND OPERATIONAL FOR THE 2026 AND 2027 BIKE RACE.
- 110 CONTRACTOR AND ENGINEER SHALL DETERMINE EXTENTS OF PATCHING LIMITS AFTER MILLING ACTIVITIES AND PRIOR TO PATCHING ACTIVITIES.

TRAFFIC PAY ITEM NOTES (06/27/2025)

- T-1 ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- T-2 REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- T-3 NOT USED.
- T-4 PAYMENT SHALL BE MADE ON A CALENDAR-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.
- 201 ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.
- 202 CONTRACTOR SHALL INSTALL AND MAINTAIN SAFETY FENCE ALONG THE EDGE OF OPEN CUTS WITHIN THE CONSTRUCTION ZONE. SAFETY FENCE SHALL BE AN OPEN MESH TYPE, HIGH-DENSITY PLASTIC MATERIAL, 48-INCHES IN HEIGHT, AND COLORED INTERNATIONAL SAFETY ORANGE. FENCE SHALL BE SUPPORTED BY FENCE POSTS SPACED AT NO MORE THAN 10 FEET. PAYMENT FOR SAFETY FENCE SHALL BE AT THE UNIT PRICE BID PER LINEAR FOOT BASED ON THE TOTAL FOOTAGE USED FOR THE DURATION OF THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING THE FENCE AS THE JOB SITE CHANGES.
- 203 REFER TO COT STANDARD 102 FOR DETAILS TO BE DETERMINED BY THE FIELD ENGINEER.


 8/30/2024

PAY ITEMS & NOTES (3)
 NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16
 CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT
 **BENHAM** Benham Design, LLC
 15 W 6th St, Suite 900
 Tulsa, Oklahoma 74119
 (918) 492-1600

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1"=NA	DESIGNED	JPP	8/30/24	 JARED PODOLNY CITY ENGINEER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJ. MGR.	PJP	7/26	
			HORIZONTAL:	FIELD MGR.	JPP	5/26	
			VERTICAL:	LEAD ENGR.	AS	4/26	
			1"=NA	RECOMMENDED	HAAS	5-26	
				DESIGN MANAGER			
FILE: 1400387-C-Pay Items 03.dgn							DATE: AUGUST 2024
ATLAS PAGE NO.: 4, 5							SHEET 5 OF 33 SHEETS



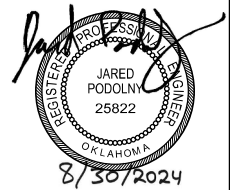
WATERLINE QUANTITIES (BASE BID)							
ITEM	SPEC. NO.	ITEM DESCRIPTION - BASE BID	PAY ITEM NOTES	UNIT	QUANTITY	PLAN SHEET 1	PLAN SHEET 2
41	220	SWPP DOCUMENTATION AND MANAGEMENT	(W-32, 33, 34, 35)	LSUM	1		
42	303(A)	6" AGG BASE	(S-1, 2)(G-1)	CY	23	21	2
43	609(B)	2'-2" COMB. CURB & GUTTER (6" BARRIER)	(S-12, 13, 15, 16) (101)	LF	33	33	
44	642(B)	CONSTRUCTION STAKING LEVEL II		EA	1		
45	COT 301	RIGHT OF WAY CLEARING AND RESTORING, COMPLETE IN PLACE	(W-4, 5, 6, 7, 22)	SY	2,000	1600	400
46	COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	(W-14)	CY	215	175	40
47	COT 303	MOBILIZATION		EA	1		
48	COT 307	8 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	(W-1, 2, 3, 8, 9, 11, 27, 28)	LF	10	10	
49	COT 307	12 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	(W-1, 2, 3, 8, 9, 11, 27, 28)	LF	12		12
50	COT 315	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	(W-13, 17)	EA	18	14	4
51	COT 315	3/4 INCH WATER METER CAN, LID & RIM		EA	18	14	4
52	COT 317	3-WAY FIRE HYDRANT, IN PLACE		EA	1	1	
53	COT 317	6" FIRE HYDRANT EXTENSION		EA	1	1	
54	COT 317	2 INCH COMB. AIR/VACUUM RELIEF VALVE & VAULT (COMPLETE IN PLACE)		EA	1		1
55	COT 318	VALVE BOX	(W-21)	EA	3	2	1
56	COT 318	VALVE BOX EXTENSION	(W-21)	EA	3	2	1
57	COT 325	SODDING AND SEEDING	(W-23)	SY	170	158	12
58	COT 326	STREET WASH DOWN		LF	600	480	120
59	COT 328	6-INCH BORE		LF	85	20	65
60	COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE DRIVES WITH CURB RETURNS)	(W-30, 36)	SY	145	131	14
61	COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE SIDEWALK)	(W-30, 36)	SY	223	170	53
62	COT 329	CONCRETE CURB AND GUTTER	(W-36)	LF	5	5	
63	COT 333	2 INCH WATERLINE ABANDONMENT	(W-5, 9)	LF	586	480	106
64	COT 334	CONSTRUCTION AS-BUILT	(W-24, 25, 27)	EA	1		
65	COT 335	CONTRACTOR QUALITY CONTROL		LSUM	1		
66	SPECIAL	TYPE I APC PATCH	(S-21) (G-1) (104)	CY	4	4	
67	SPECIAL	OWNER ALLOWANCE	(W-18)	ALLOW	10,000		
68	SPECIAL	TRAFFIC CONTROL		CD	120		

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

WATER-DIP PIPE MATERIAL- (OPTION 1)							
ITEM	SPEC. NO.	ITEM DESCRIPTION - DIP PIPE MATERIAL- OPTION NO. 1	PAY ITEM NOTES	UNIT	QUANTITY	PLAN SHEET 1	PLAN SHEET 2
69	COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	(W-1, 2, 3, 8, 9, 11, 27, 28)	LF	405	299	106
70	COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED	(W-1, 2, 3, 8, 9, 11, 27, 28)	LF	181	181	
71	COT 312	8 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1	1	
72	COT 312	6 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1	1	
73	COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1		1
74	COT 312	6 INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)	(W-2, 8)	EA	1	1	
75	COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2		2
76	COT 312	8 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2	2	
77	COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	(W-13, 15, 16, 17)	EA	9	7	2
78	COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	(W-13, 15, 16, 17)	EA	9	7	2
79	COT 317	6" GATE VALVE (RJ)	(W-8)	EA	3	2	1

WATER-PVC PIPE MATERIAL- (OPTION 2)							
ITEM	SPEC. NO.	ITEM DESCRIPTION - PVC PIPE MATERIAL- OPTION NO. 2	PAY ITEM NOTES	UNIT	QUANTITY	PLAN SHEET 1	PLAN SHEET 2
80	COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	(W-1, 2, 3, 8, 9, 11, 27, 28)	LF	126	20	106
81	COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14 (RJ)	(W-1, 2, 3, 8, 9, 10, 27, 29)	LF	279	279	
82	COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14	(W-1, 2, 3, 9, 10, 27)	LF	181	181	
83	COT 312	8 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1	1	
84	COT 312	6 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1	1	
85	COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	(W-2, 8)	EA	1		1
86	COT 312	6 INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)	(W-2, 8)	EA	1	1	
87	COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2		2
88	COT 312	8 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2	2	
89	COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	(W-13, 15, 16, 17)	EA	9	7	2
90	COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	(W-13, 15, 16, 17)	EA	9	7	2
91	COT 317	6" GATE VALVE (RJ)	(W-8)	EA	3	2	1

WATER- HDPE PIPE MATERIAL- (OPTION 3)							
ITEM	SPEC. NO.	ITEM DESCRIPTION - HDPE PIPE MATERIAL- OPTION NO. 3	PAY ITEM NOTES	UNIT	QUANTITY	PLAN SHEET 1	PLAN SHEET 2
92	COT 309A	8 INCH HDPE AWWA C906 PE4710 DR-11 (DIPS)	(W-1, 2, 3, 8, 9, 10, 19, 27, 28)	LF	586	480	106
93	COT 312A	8 INCH HDPE MJ ADAPTOR (DIPS) (RJ)	(W-8)	EA	3	2	1
94	COT 312	8 INCH X 8 INCH DUCTILE IRON TEE	(W-2, 8)	EA	1	1	
95	COT 312	12 INCH X 6 INCH DUCTILE IRON TEE	(W-2, 8)	EA	1		1
96	COT 312A	8 INCH X 8 INCH HDPE TEE (DIPS)	(W-20)	EA	1	1	
97	COT 312A	8 INCH HDPE WALL ANCHOR (DIPS)(RJ)	(W-26)	EA	2	1	1
98	COT 312	8 INCH X 6 INCH DUCTILE IRON REDUCER (RJ)	(W-2, 8)	EA	2	1	1
99	COT 312	8 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2	2	
100	COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	(W-2, 8, 12)	EA	2		2
101	COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	(W-13, 15, 16, 17)	EA	9	7	2
102	COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	(W-13, 15, 16, 17)	EA	9	7	2
103	COT 317	8" GATE VALVE (RJ)	(W-8)	EA	3	2	1



WATERLINE PAY ITEMS & NOTES (1)

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
1"=NA	DESIGNED	JPP	8/30/24	
	SURVEY	RDL	8/30/24	
PROFILE SCALE	PROJ. MGR.	RP	8/5/2024	
HORIZONTAL:	FIELD MGR.	Zam	8/16/24	
1"=NA	LEAD ENGR.			
VERTICAL:	RECOMMENDED			
1"=NA	DESIGN MANAGER	Thomas G. Ory		
				CITY ENGINEER
				DATE: AUGUST 2024
				SHEET 6 OF 33 SHEETS



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GENERAL CONSTRUCTION NOTES- BENHAM (04/15/2026)

ALL WORK AND/OR MATERIALS NOT CLASSIFIED AS A "CONTRACT PAY ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

WHERE IT IS NECESSARY TO CROSS CURBING, PROTECTION AGAINST DAMAGE SHALL BE PROVIDED BY THE CONTRACTOR AND ANY DAMAGE TO THE ROADWAY PAVEMENT, CURBS, OR DRIVEWAYS CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

BLASTING SHALL NOT BE ALLOWED.

ALL EXISTING MANHOLES, INLETS, VALVES, FIRE HYDRANTS AND METERS, WHICH ARE NOT BEING RELOCATED OR REMOVED, SHALL BE RESET TO PROPOSED CONDITIONS. ALL ITEMS THAT ARE TO BE RESET SHALL BE HANDLED WITH CARE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RESULTING DAMAGE DURING THESE OPERATIONS.

CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE EXISTING INLETS THAT ARE WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN AS PART OF THE CONSTRUCTION IN THIS PROJECT. ALL DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

PROJECT SIGNS SHALL BE PROVIDED AT ENTRANCES TO THE PROJECT AREA. THE PROJECT SIGNS SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL DOCUMENT PRE-CONSTRUCTION SITE CONDITIONS BY MEANS OF PHOTOGRAPHS AND VIDEO TAPE WITH CITY REPRESENTATIVE BEFORE THE START OF CONSTRUCTION. COST SHALL BE CONSIDERED AS INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE.

THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- 1) ANY PERMITS OR LICENSES REQUIRED FOR CONSTRUCTION WITH THE EXCEPTION OF THE WATERSHED DEVELOPMENT PERMIT, WHICH SHALL BE OBTAINED BY THE CITY.
- 2) PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION AND FOR REQUIRED INSPECTIONS.
- 3) DETERMINING THE EXACT LOCATION OF ANY UTILITIES. EXISTING UTILITIES TO REMAIN IN SERVICE AT ALL TIMES. SERVICE DISRUPTION TO BE AT CONTRACTOR'S RISK AND EXPENSE.

THE GEOTECHNICAL REPORTS WERE PREPARED BY TERRACON FOR THIS PROJECT.

TERRACON PROJECT NO.	DATE	DESCRIPTION
04235124	February 12, 2024	Non-Arterial Street Improvements Maintenance Zone 4067

LOCATIONS OF SOIL BORINGS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL REPORTS ARE AVAILABLE FOR REVIEW AT THE OFFICE OF BENHAM DESIGN, LLC, 15 WEST 6th ST., SUITE 900, TULSA, OK 74119. ANY INFORMATION CONTAINED IN THE GEOTECHNICAL REPORTS SHOULD NOT BE CONSTRUED AS REPRESENTATIVE OF ALL FIELD CONDITIONS.

CONTRACTOR SHALL BRACE UTILITY POLES AND/OR LINES AS NECESSARY.

GENERAL CONSTRUCTION NOTES- TRAFFIC SIGNING (04/15/2026)

NO SPLICES SHALL BE PERMITTED IN ANY PIPE OR WDE FLANGE SIGN POSTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A RECORD OF ALL SIGNS AND MARKINGS TO INSURE PROPER REINSTALLATION BY THE CONTRACTOR AS APPROVED BY THE CITY OF TULSA.

FOR EXISTING GROUND MOUNTED SIGNS, MAXIMUM STUB POST PROJECTION ABOVE FOOTING/GROUND LINE SHALL BE 1-3/4" + 1/4". MAXIMUM FOOTING PROJECTION ABOVE GROUND LINE SHALL BE NO MORE THAN 2". SHOULD ADDITIONAL SOIL BE REQUIRED, THE ENGINEER SHALL DESIGNATE AN AREA TO OBTAIN ADDITIONAL SOIL.

GENERAL CONSTRUCTION NOTES- ROADWAY (04/15/2026)

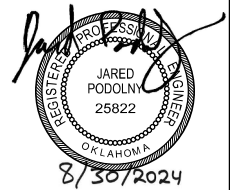
MAILBOXES TO BE REMOVED AND RESET SHALL BE RESTORED TO SUBSTANTIALLY THE SAME CONDITION AS EXISTS AT THE BEGINNING OF CONSTRUCTION.

THE CONTRACTOR SHALL PROTECT MAILBOXES AS NECESSARY. MAILBOXES ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIER'S CAR DURING CONSTRUCTION.

FOR WIDENING AND RESURFACING PROJECTS, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE ENGINEER FOR APPROVAL, BEFORE OPERATIONS BEGIN.

EXCAVATION FOR PAVEMENT WIDENING, EXTENSION OF ROADWAY STRUCTURES, AND ASPHALT LAYING OPERATIONS THAT PRESENT AN EDGE DROP-OFF OF GREATER THAN 2 (TWO) INCHES SHALL BE LIMITED TO ONE SIDE AT A TIME. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 2 (TWO) DAYS TIME, WITHOUT APPROVAL OF THE ENGINEER. LIGHTS, SIGNS, AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

ASPHALT REPAIRS IN PLACE SHALL BE REMOVED WHEN DESIGNATED AND IN A MANNER APPROVED BY THE ENGINEER.



GENERAL CONSTRUCTION NOTES (2)

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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



REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
			1"=NA	DESIGNED	JPP	8/30/24	
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJ. MGR.	<i>BSP</i>	<i>4/26</i>	
			HORIZONTAL:	FIELD MGR.	<i>Bru</i>	<i>5/26</i>	
			1"=NA	LEAD ENGR.	<i>JD</i>	<i>4/26</i>	
			VERTICAL:	RECOMMENDED	<i>HAS</i>	<i>5-26</i>	
			1"=NA	DESIGN MANAGER			<i>J. O'SULLIVAN</i> CITY ENGINEER
			FILE:	1400387-C-General Notes 02.dgn			DATE: AUGUST 2024
			ATLAS PAGE NO.:	4, 5			SHEET 9 OF 33 SHEETS

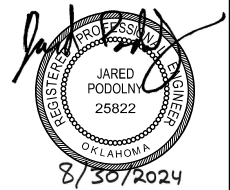
SUMMARY OF SURFACING - ROADWAY															
PLAN & PROFILE NO.	ALIGNMENT	STATION TO	STATION	FABRIC REINFORCEMENT (GLASPAVE 25)	SUPERPAVE, TYPE S4 (PG 64-22 OK) (INSOLUBLE)	SUPERPAVE, TYPE S6 (PG 64-22 OK)	COLD MILLING PAVEMENT	UNCLASSIFIED EXCAVATION	SOLID SLAB SODDING	AGGREGATE BASE TYPE A	SUBGRADE METHOD B	SEPARATOR FABRIC	COMBINED CURB & GUTTER (6" BARRIER)	4" CONCRETE SIDEWALK	TYPE I APC PATCH
				409 SY	411(C) TON	411(E) TON	412 SY	202(A) CY	230(A) SY	303(A) CY	310(B) SY	325 SY	609(B) LF	610(A) SY	SPECIAL CY
1	W. 13th ST.	10+28.00	19+16.17	2,801	314	40	2,801	187	93	93	280	420	178		70
2	S. Lawton Ave. (Spur)	100+76.24	101+39.82	95	11	2	95	6	3	3	9	14	13		2
2	S. Lawton Ave.	21+16.68	24+95.79	1,078	121	16	1,078	72	36	36	108	162	76		27
3	S. Jackson Ave	31+16.79	32+03.23	289	33	5	289	19	10	10	29	43	18		7
3	S. Jackson Ave	32+64.23	34+86.50	643	72	9	643	43	21	21	64	96	45		16
4	S. Indian Ave	40+83.70	45+99.75	1,559	175	22	1,559	104	52	52	156	234	104		39
4	S. Indian Ave	46+55.75	49+57.60	873	98	13	873	58	29	29	87	131	61		22
5	S. Carson Ave	50+41.20	56+30.81	1,966	221	28	0	131	66	66	197	295	118		49
	W. 14th ST.	Carson Ave	Carthage Ave											83	
TO BE USED AS DEEMED NECESSARY BY ENGINEER														291	
TOTALS				9,304	1,045	135	7,338	620	310	310	930	1,395	613	374	232

NOTE: QUANTITIES TO BE USED AS DEEMED NECESSARY BY THE ENGINEER

SIGN SCHEDULE																				
SIGN NO.	SIGN LOCATION			SIGN TYPES	NUMBER OF INDIVIDUAL SIGNS *	SIGN DIMENSIONS (INCHES)			GROUND SIGN	1-1/2" SIGN POST	1-3/4" SIGN POST	2" SIGN POST	REMOVE AND RESET SIGN	COMMENTS						
	ALIGNMENT	STATION	OFFSET			EA	6	X							V	COT 608	COT 608	COT 608	COT 608	805(D)
																SF	LF	LF	LF	EA
1	W. 13th ST.	10+15	28.00	LT	SNS	2	6	X	V	6.00				W 13TH ST						
					SNS	2	6	X	V	6.00	2.00	10.00	3.00	S LAWTON AV						
						1								ALERT NEIGHBORHOOD						
2	W. 13th ST.	10+95.	20.00	RT	SP-1	1	18	X	12	1.50		10.00	3.00	NO PARKING ANY TIME						
					R1-1	1	30	X	30	5.18				STOP SIGN						
3	W. 13th ST.	16+93	15.00	RT	SNS	2	6	X	V	4.00	2.00	10.00	3.00	S INDIAN AV						
					SNS	2	6	X	V	4.00				W 13TH ST						
					R1-3P	1	18	X	6	0.75				ALL WAY (plaque)						
4	W. 13th ST.	17+50	15.00	LT	R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
					R1-3P	1	18	X	6	0.75				ALL WAY (plaque)						
5	S. LAWTON AVE.	21+47	14.00	RT	SP-2	1	18	X	12	1.50		10.00	3.00	NO PARKING RIGHT						
6	S. LAWTON AVE.	21+63	15.00	LT	R4-7	1	24	X	30	5.00	2.00	10.00	3.00	KEEP RIGHT						
					OM3-L	1	6	X	18	1.00				OBJECT MARKER TYPE 3 LEFT						
7	S. LAWTON AVE.	22+27	15.00	LT	SP-3	1	18	X	12	1.50		10.00	3.00	NO PARKING LEFT						
8	S. LAWTON AVE.	24+00	15.00	RT	SP-1	1	18	X	12	1.50		10.00	3.00	NO PARKING FROM CORNER						
9	S. JACKSON AVE	32+05	14.00	RT	R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
					W14-1	1	30	X	30	6.25				DEAD END						
					R1-1	1	30	X	30	5.18				STOP SIGN						
10	S. JACKSON AVE	32+57	14.00	LT	SNS	2	6	X	V	6.00	2.00	10.00	3.00	W 13TH ST						
					SNS	2	6	X	V	6.00				S JACKSON AVE						
						1								ALERT NEIGHBORHOOD						
11	S. JACKSON AVE	33+05	14.00	RT	SP-1	1	18	X	12	1.50		10.00	3.00	NO PARKING						
12	S. JACKSON AVE	34+50	14.00	RT	SP-1	1	18	X	12	1.50		10.00	3.00	NO PARKING						
13	S. INDIAN AVE	41+05.	14.00	RT	R2-1(25)	1	24	X	30	5.00		10.00	3.00	SPEED LIMIT 25						
					R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
14	S. INDIAN AVE	45+97	14.00	RT	R1-3P	1	18	X	6	0.75				ALL WAY (plaque)						
					R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
					R1-3P	1	18	X	6	0.75				ALL WAY (plaque)						
16	S. INDIAN AVE	48+50	14.00	LT	R2-1(25)	1	24	X	30	5.00		10.00	3.00	SPEED LIMIT 25						
					R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
17	S. CARSON AVE	50+40	14.00	LT	SNS	2	6	X	V	4.00	2.00	10.00	3.00	S CARSON AVE 1400						
					SNS	2	6	X	V	4.00				W 15TH ST 200						
						1								ALERT NEIGHBORHOOD						
18	S. CARSON AVE	51+25	14.00	RT	R2-1(25)	1	24	X	30	5.00		10.00	3.00	SPEED LIMIT 25						
19	S. CARSON AVE	56+25	14.00	RT	R1-1	1	30	X	30	5.18	2.00	10.00	3.00	STOP SIGN						
TOTALS:					43					121	20	190	57	3						

* FOR INFORMATION ONLY NOTES: 1) ALL NEW SIGNS SHALL BE USED AS REPLACEMENTS FOR EXISTING SIGNS
2) 'V' - SIZE VARIES. REFER TO COT STD. 608A & 608B

SUMMARY OF REMOVALS						
REMOVAL PLAN NO.	ALIGNMENT	STATION TO	STATION	CONCRETE DRIVEWAY	CURB & GUTTER	SIDEWALK
				619(B) SY	619(B) LF	619(B) SY
	W. 14th ST.	Carson Ave	Carthage Ave			83
TO BE USED AS DEEMED NECESSARY BY ENGINEER				174	613	291
TOTALS				174	613	374



SUMMARIES

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

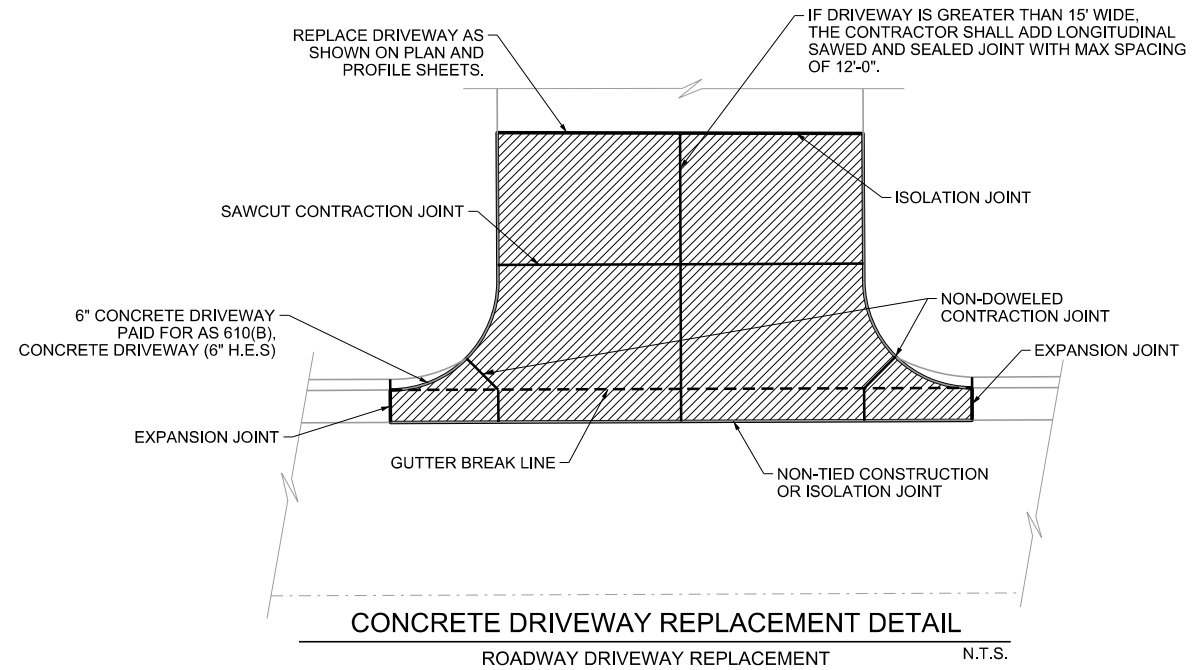
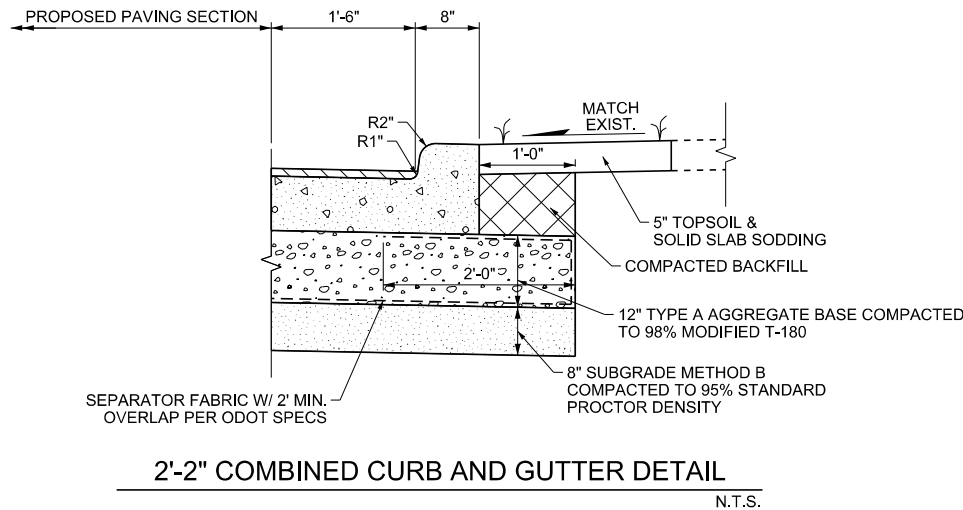
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
1	NA		1"=NA	DESIGNED	JPP	8/30/24	 CITY ENGINEER DATE: AUGUST 2024 SHEET 11 OF 33 SHEETS
				SURVEY	RDL	8/30/24	
				PROJECT MGR	DP	12/24	
				FIELD MGR	DP	8/26	
				LEAD ENGR	DP	3/26	
				RECOMMENDED	DP	3/26	
				DESIGN MANAGER	DP	3/26	
				FILE: 1400387-C-Summaries 01.dgn			
				ATLAS PAGE NO.: 4, 5			

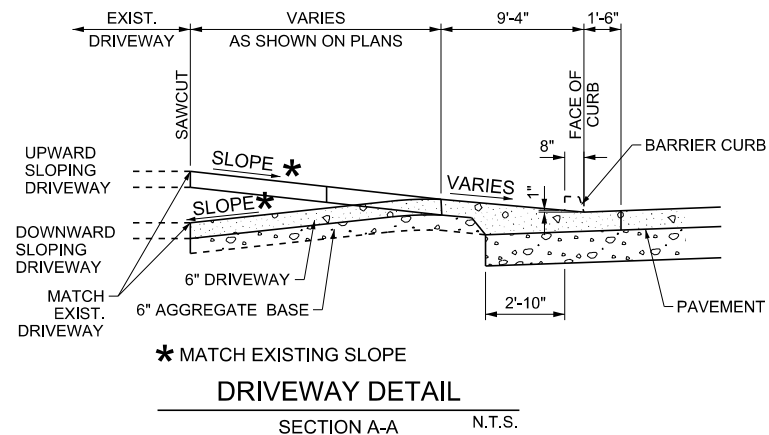
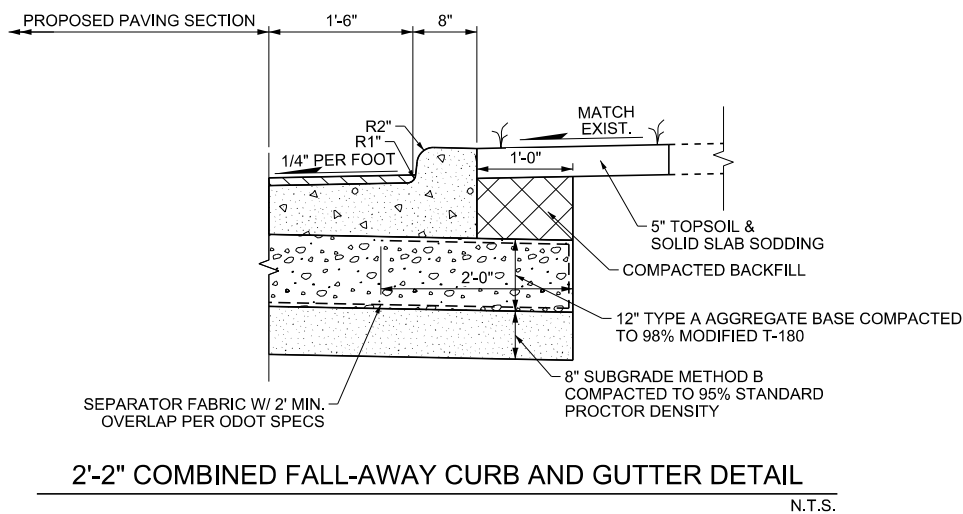
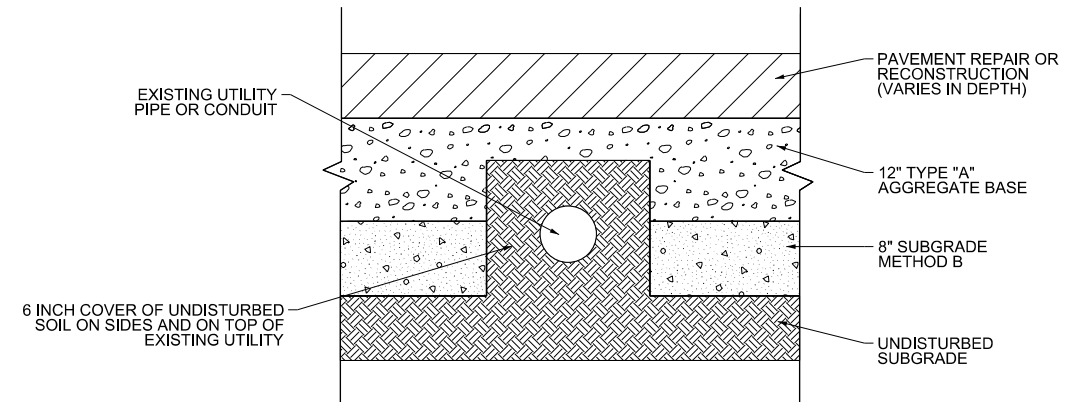
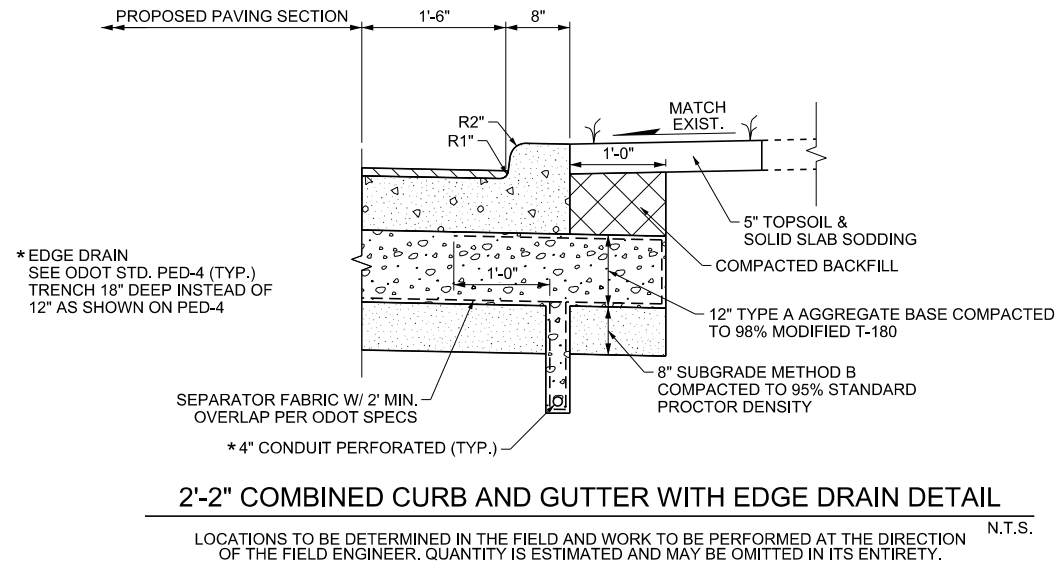


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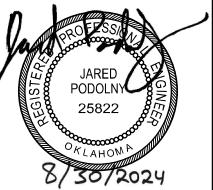


DRIVE NOTES:

1. THERE WILL BE NO DEDUCTION OF PAYMENT FOR CONCRETE CURB AND/OR INTEGRAL CURB FOR THE LENGTH OF THE CURB BLOCKOUT.
2. EXPANSION JOINT MATERIAL, SEALERS AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF DRIVEWAY SURFACING.
3. JOINT SEALERS SHALL MEET THE REQUIREMENTS OF THE 2019 ODOT STANDARD SPECIFICATIONS SECTIONS 701.08B AND 701.08E.
4. CONSTRUCTION OF JOINTS SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD DRAWING NO. 702 EXCEPT AS NOTED.
5. DRIVE SHALL BE REPLACED TO EXISTING JOINT OR AS NOTED.
6. DRIVEWAYS SHALL RISE ABOVE THE GUTTERLINE TO A MINIMUM MATCHING THE ADJACENT CURB HEIGHT PRIOR TO A BREAKOVER AWAY FROM THE ROADWAY.
7. CONSTRUCTION OF DRIVEWAY SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD 702 AND 704.



NOTE: DRIVEWAYS SHALL RISE TO A MINIMUM HEIGHT TO MATCH ADJUSTMENT TOP OF CURB.



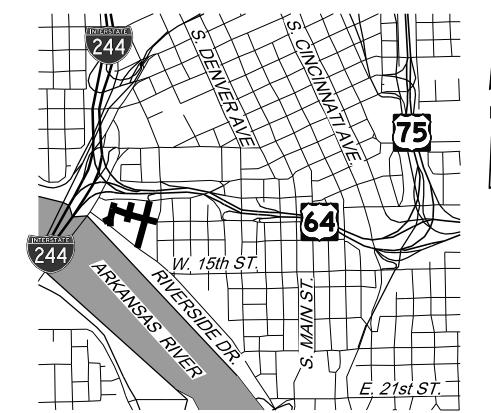
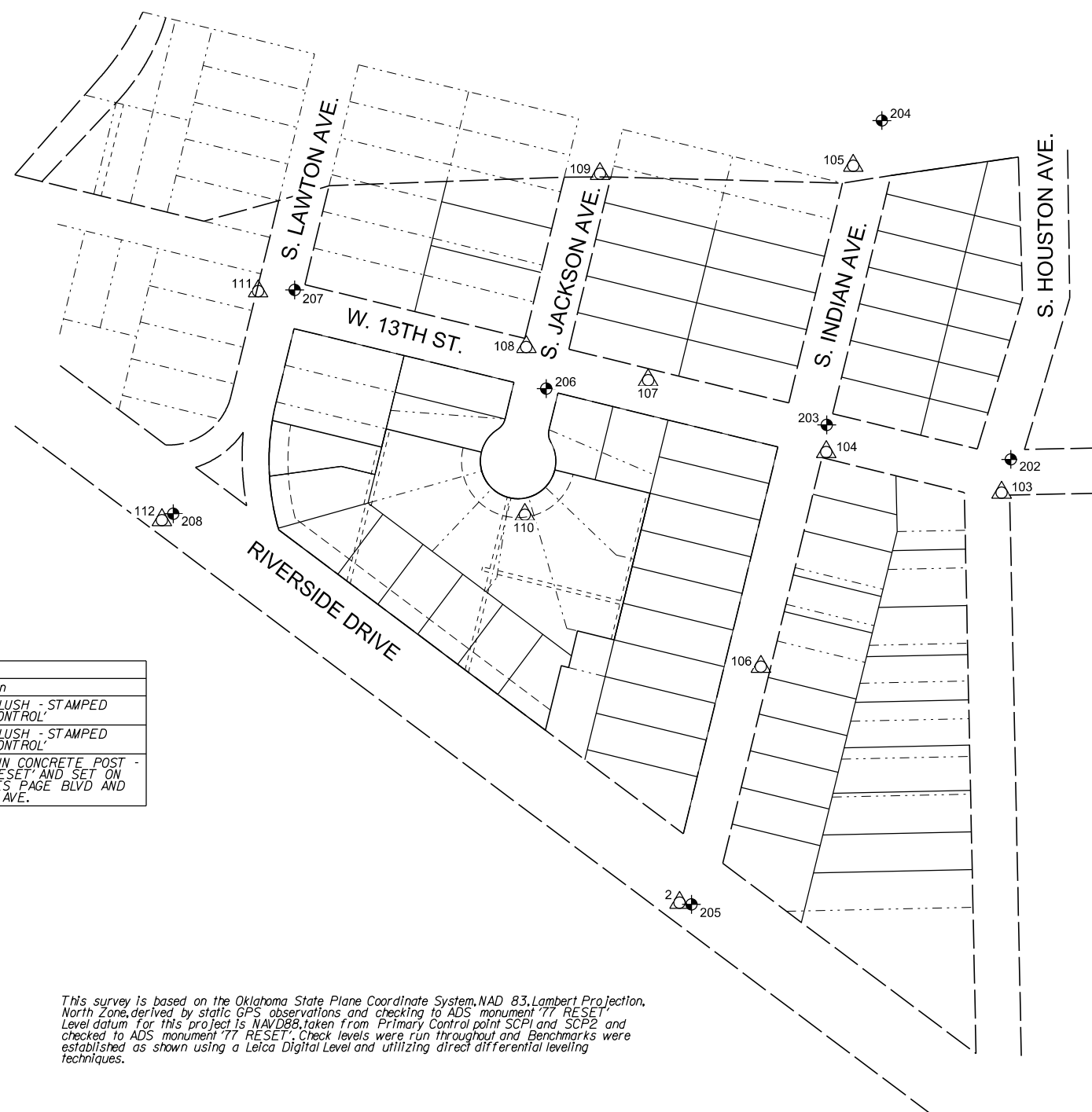
MISCELLANEOUS DETAILS	
NON-ARTERIAL STREET REHABILITATION MZ 4067 PROJECT NO. 2036N4067Z TMUA-W 22-16	
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT	

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
1	NA		1"=NA	DESIGNED	JPP	8/30/24	[Signature]
				SURVEY	RDL	8/30/24	
				PROJECT MGR	[Signature]	[Signature]	
				FIELD MGR	[Signature]	[Signature]	
				LEAD ENGR	[Signature]	[Signature]	
				RECOMMENDED	[Signature]	[Signature]	
				DESIGN MANAGER	[Signature]	[Signature]	
FILE: 1400387-C-Misc Details 01.dgn							DATE: AUGUST 2024
ATLAS PAGE NO.: 4, 5							SHEET 16 OF 33 SHEETS



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KEYMAP

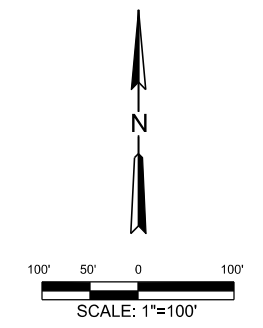
SURVEY CONTROL DATA

- Horizontal Control:**
 1. Horizontal Control for this survey are based on the Oklahoma State Plane Coordinate System, North Zone - NAD 83 Datum.
 2. Accuracy - 3rd Order
- Vertical Controls:**
 3. Level Datum is Mean Sea Level (USC&GS) NAVD 88
 4. The Linear Unit is U.S. Survey Foot.
 5. Permanent Benchmark - ADS 77 RESET

I, RUSSELL D. LAMBILLOTTE, DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UPON THE GROUND AND THAT IT AND THE INFORMATION SHOWN HEREON FOR ALL SURVEY DATA POINTS ARE TRUE AND CORRECT REPRESENTATION TO THE BEST OF MY KNOWLEDGE.



Signature _____
 Date _____



MZ 4067 Offsite Horizontal and Vertical Control				
Point	North	East	Elevation	Description
1	421418.019	2561279.698	703.694	SCP - 2IN ALUM CAP - SET FLUSH - STAMPED 'ISAACS SURVEYING SURVEY CONTROL'
2	421827.374	2559068.737	636.799	SCP - 2IN ALUM CAP - SET FLUSH - STAMPED 'ISAACS SURVEYING SURVEY CONTROL'
77 RESET	424134.084	2550138.622	639.881	ADS - 3IN BRASS CAP - SET IN CONCRETE POST - SET FLUSH - STAMPED '77 RESET' AND SET ON THE SOUTH SIDE OF CHARLES PAGE BLVD AND WEST OF CURVE TO 33RD W.AVE.

MZ 4067 Onsite Horizontal Control				
Point	North	East	Elevation	Description
103	422370.854	2559495.498	667.915	3/8 IPC
104	422424.69	2559263.222	671.728	3/8 IPC
105	422804.214	2559298.948	679.414	3/8 IPC
106	422140.169	2559176.591	662.089	3/8 IPC
107	422519.916	2559027.221	690.348	3/8 IPC
108	422563.936	2558865.749	695.611	3/8 IPC
109	422793.499	2558963.396	702.323	3/8 IPC
110	422341.523	2558863.858	681.606	3/8 IPC
111	422637.949	2558510.431	676.378	3/8 IPC
112	422334.426	2558382.942	639.341	3/8 IPC

This survey is based on the Oklahoma State Plane Coordinate System, NAD 83, Lambert Projection, North Zone, derived by static GPS observations and checked to ADS monument 77 RESET. Level datum for this project is NAVD88, taken from Primary Control point SCP1 and SCP2 and checked to ADS monument 77 RESET. Check levels were run throughout and Benchmarks were established as shown using a Leica Digital Level and utilizing direct differential leveling techniques.

MZ 4067 Onsite Vertical Control				
Point	North	East	Elevation	Description
202	422414.961	2559507.668	667.858	CUT X
203	422460.623	2559263.934	671.877	CUT X
204	422864.117	2559336.962	678.262	CUT X
205	421825.085	2559084.568	636.095	CUT X
206	422508.728	2558892.084	694.797	CUT X
207	422639.611	2558558.799	676.472	CUT X
208	422342.856	2558398.118	638.547	CUT X

- LEGEND**
- HORIZONTAL & VERTICAL CONTROL POINT
 - BENCH MARK SYMBOL



SURVEY DATA (1)

NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

BENHAM Design, LLC
 a Haskell Company
 15 West 6th Street, Suite 900
 Tulsa, Oklahoma 74119
 (918) 492-1600

ISAACS SURVEYING
 1 WEST 22nd ST
 SAND SPRINGS, OK 74063
 PHONE: (918) 245-0456
 FAX: (918) 245-4723
 C.A. NO. 7767 EXP. 06/30/25

REVISION	BY	DATE	PLAN SCALE	DRAWN	JH	8/30/24	APPROVED:
			1" = 100'	DESIGNED	JPP	8/30/24	 RUSSELL D. LAMBILLOTTE PROFESSIONAL ENGINEER LICENSE NO. 1555
			PROFILE SCALE	SURVEY	RDL	8/30/24	
			HORIZONTAL:	PROJECT MGR	JPP	8/30/24	
			VERTICAL:	FIELD MGR	JPP	8/30/24	
				LEAD ENGR	JPP	8/30/24	
				RECOMMENDED	JPP	8/30/24	
				DESIGN MANAGER	JPP	8/30/24	
							CITY ENGINEER
							DATE: AUGUST 2024
							SHEET 17 OF 33 SHEETS

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CRL W. 13th St.									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 9+70.00	422634.01	2558507.53						
	POE 19+45.77	422399.33	2559454.66						

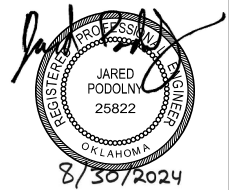
CRL S. Lawton Ave.									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 20+00.00	422279.83	2558511.34						
C1	PC 21+12.62	422391.34	2558495.59	21°46'53.89" RT	25°27'53.25"	225.0000	43.290	85.540	4.130
	PI 21+55.91	422434.20	2558489.54						
	PT 21+98.15	422476.25	2558499.82						
	POE 25+30.82	422799.39	2558578.86						


CRL S. Lawton Ave. (Spur)									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 100+00.00	422389.28	2558367.72						
C2	PC 100+74.10	422414.97	2558437.22	55°58'32.84" LT	54°34'02.67"	105.0000	55.800	102.580	13.910
	PI 101+29.90	422434.31	2558489.56						
	PT 101+76.68	422488.51	2558502.82						


CRL S. Jackson Ave.									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 30+00.00	422315.60	2558831.14						
	POE 35+10.00	422811.00	2558952.31						

CRL S. Indian Ave.									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 40+00.00	421843.85	2559086.37						
	POE 49+57.60	422774.03	2559313.88						

CRL S. Carson Ave.									
CURVE NO	CARDINAL POINTS			CURVE DATA					
	STATION	Y (NORTHING) (feet)	X (EASTING) (feet)	DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB 50+00.00	421342.47	2561741.05						
	POE 56+60.99	422003.37	2561730.32						


 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024

GEOMETRIC DATA (2)
 NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16
 CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT
 Benham Design, LLC
 15 W 6th St, Suite 900
 Tulsa, Oklahoma 74119
 (918) 492-1600

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1" = NA	DESIGNED	JPP	8/30/24	 DESIGN MANAGER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	POP	8/24	
			HORIZONTAL:	FIELD MGR	POD	8/26	
			1" = NA	LEAD ENGR	POD	8/26	
			VERTICAL:	RECOMMENDED	HAS	3-26	
			1" = NA	DESIGN MANAGER	HAS	3-26	
			FILE: 1400387-C-Geometric Data 02.dgn				CITY ENGINEER
			ATLAS PAGE NO.: 4, 5				DATE: AUGUST 2024
							SHEET 20 OF 33 SHEETS



STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: RESIDENTIAL STREETS WITHIN THE LIMITS OF US-64 & RIVERSIDE DR. AND W. 12TH ST. & W. 15TH ST.

PROJECT DESCRIPTION: NON-ARTERIAL STREET REHABILITATION

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

- 1) AS GRADING OPERATIONS PROCEED, INSTALL TEMPORARY CONTROL DEVICES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THESE DEVICES SHALL BE MAINTAINED AS REQUIRED BY THE CITY OF TULSA STANDARD SPECIFICATIONS AND THE WEEKLY INSPECTION REPORTS PER PHASE.
- 2) PLACE PERMANENT SOLID SLAB SODDING PER PHASE. REMOVE TEMPORARY CONTROLS WHEN PERMANENT CONTROLS ARE ADDED.

SOIL TYPE: LEAN CLAY, SILT, AND SAND

TOTAL AREA OF THE CONSTRUCTION SITE: 1.92 AC

ESTIMATED AREA TO BE DISTURBED: EX. PAVEMENT=1.92 AC EX. GRASS=0.21 AC

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 1.92 AC

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 1.92 AC

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: _____

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36°08'38.63"N 96°00'01.04"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: ARKANSAS RIVER & ELM CREEK

SENSITIVE WATERS OR WATERSHEDS: YES NO

303(d) IMPAIRED WATERS: YES NO

IF YES, LIST IMPAIRMENT: CADMIUM

LOCATED IN A TMDL: YES NO

LAKE THUNDERBIRD TMDL: YES NO

MS4 ENTITY YES NO

IF YES, LOCATION: CITY OF TULSA

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

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- VEGETATIVE MULCHING
- SOIL RETENTION BLANKET
- PRESERVATION OF EXISTING VEGETATION
- HYDROMULCH / HYDROSEED

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 PROTECTION
- TEMPORARY BRUSH SEDIMENT BARRIERS
- SANDBAG BERMS
- TEMPORARY STREAM CROSSINGS
- FLEXAMAT / ARTICULATED CONCRETE BLOCK
- COMPOST FILTER SOCKS
- EROSION CONTROL MATS AND BLANKETS

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

* USE CITY OF TULSA STANDARD 126, CONSTRUCTION ENTRANCE

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.

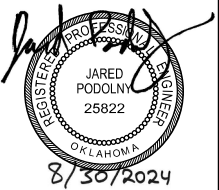
THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

- 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
- 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

ADDITIONAL PERMITS REQUIRED FROM OKLAHOMA WATER RESOURCES BOARD AND/OR MUNICIPALITY FOR USE OF SURFACE, GROUND OR CITY WATER SOURCES FOR ACTIVITIES SUCH AS WATERING.



STORMWATER MANAGEMENT PLAN
NON-ARTERIAL STREET REHABILITATION MZ 4067 PROJECT NO. 2036N4067Z TMUA-W 22-16
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

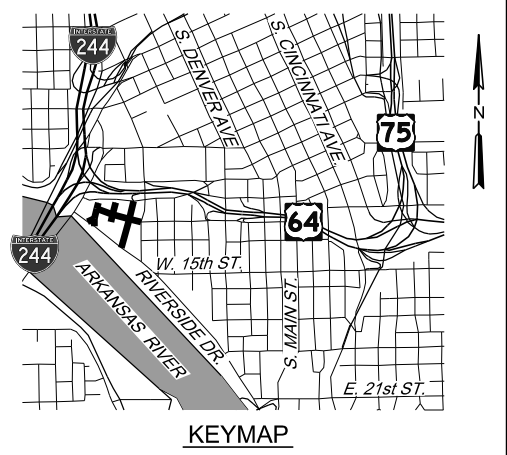


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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR.	DJP	8/26/24	
			HORIZONTAL	FIELD MGR.	DJP	8/26/24	
			VERTICAL	LEAD ENGR.	Phu	8/26/24	
			1"= NA	RECOMMENDED	Thomas G. D.		
				DESIGN MANAGER			
			FILE: 1400387-C-SMP.dgn				CITY ENGINEER
			ATLAS PAGE NO.: 4, 5				DATE: AUGUST 2024
							SHEET 21 OF 33 SHEETS



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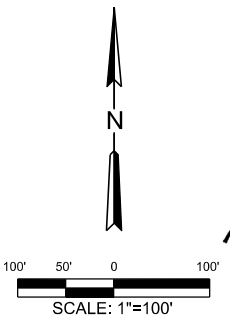


LEGEND:

- TEMPORARY SEDIMENT FILTER

NOTES:

LOCATIONS OF TEMPORARY SILT FENCE TO BE DETERMINED IN THE FIELD. INSTALLATION OF TEMPORARY SILT FENCE TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER AND MAY BE OMITTED IN ITS ENTIRETY.



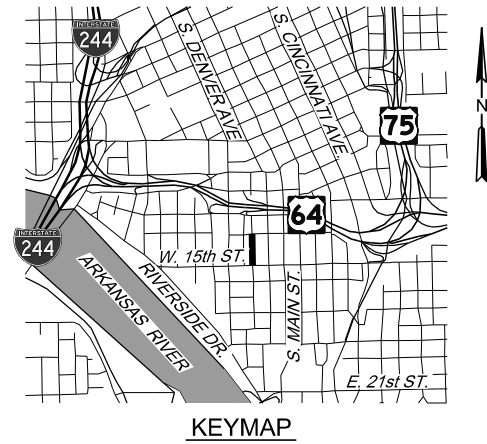
Jared Podolny
 REGISTERED PROFESSIONAL ENGINEER
 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024

EROSION CONTROL (1)
 NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16
 CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT
BENHAM Benham Design, LLC
 15 W 6th St, Suite 900
 Tulsa, Oklahoma 74119
 (918) 492-1600
 a Haskell Company



REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1"= 100'	DESIGNED	JPP	8/30/24	
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	<i>JPP</i>	<i>8/24</i>	
			HORIZONTAL:	FIELD MGR	<i>RDL</i>	<i>4/26</i>	
			VERTICAL:	LEAD ENGR	<i>Zemi</i>	<i>5/26</i>	
				RECOMMENDED	<i>Shannon G. P...</i>		
				DESIGN MANAGER			<i>Zosely</i>
				FILE:	1400387-C-Erosion_Control-01.dgn		DATE: AUGUST 2024
				ATLAS PAGE NO.:	4, 5		SHEET 22 OF 33 SHEETS

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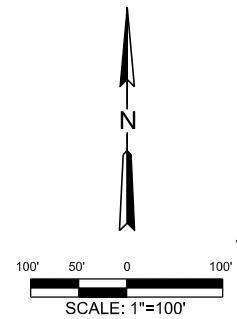


LEGEND:

- TEMPORARY SEDIMENT FILTER

NOTES:

LOCATIONS OF TEMPORARY SILT FENCE TO BE DETERMINED IN THE FIELD. INSTALLATION OF TEMPORARY SILT FENCE TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER AND MAY BE OMITTED IN ITS ENTIRETY.



Jared Podolny
REGISTERED PROFESSIONAL ENGINEER
JARED PODOLNY
25822
OKLAHOMA
8/30/2024

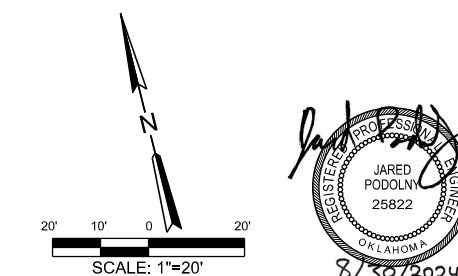
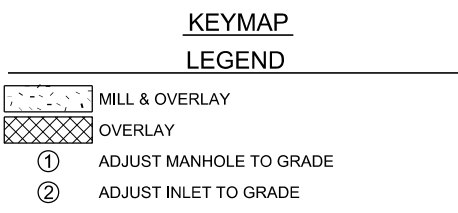
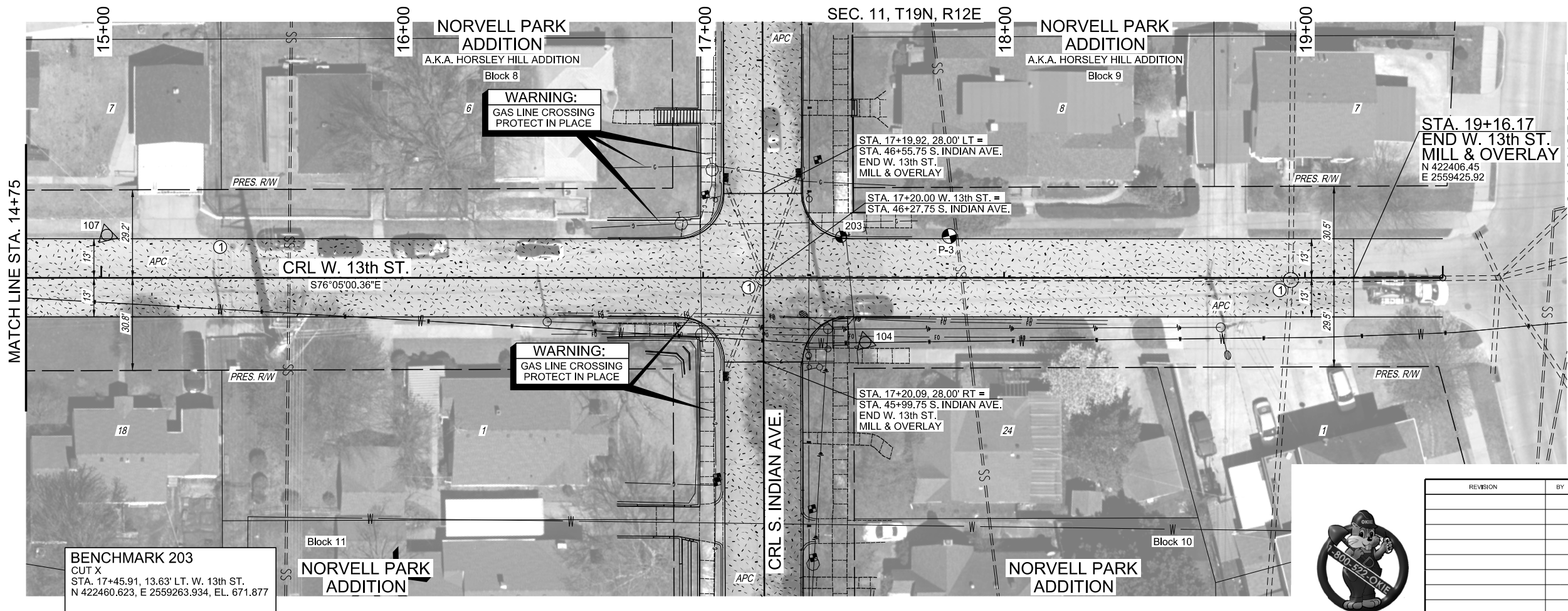
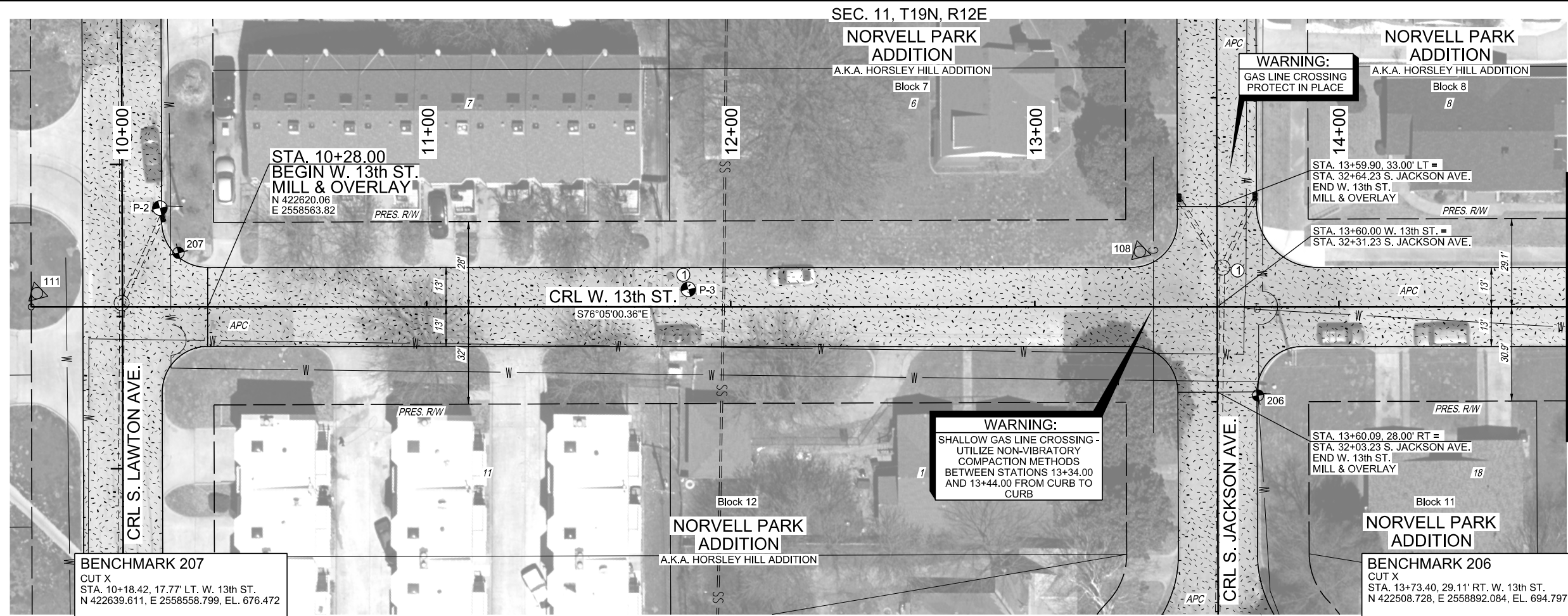
EROSION CONTROL (2)
NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
			1" = 100'	DESIGNED	JPP	8/30/24	<i>Jared Podolny</i> CITY ENGINEER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	<i>PJP</i>	<i>8/24</i>	
			HORIZONTAL:	FIELD MGR	<i>RD</i>	<i>8/26</i>	
			VERTICAL:	LEAD ENGR	<i>RD</i>	<i>8/26</i>	
				RECOMMENDED	<i>Thomas M. M</i>		
				DESIGN MANAGER			
			FILE:	1400387-C-Erosion_Control-02.dgn			DATE: AUGUST 2024
			ATLAS PAGE NO.:	4, 5			SHEET 23 OF 33 SHEETS



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6/3/2026



REHABILITATION PLAN (1)
STA. 10+00 TO STA. 19+45
W. 13th ST.

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

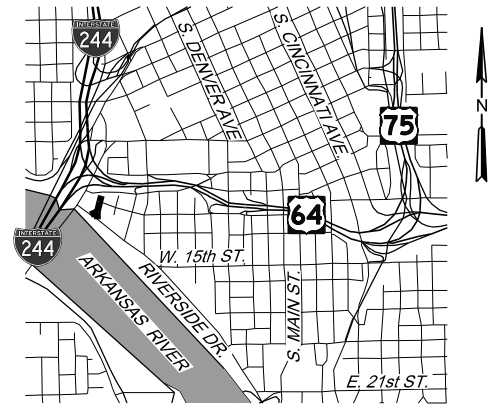
BENHAM Benham Design, LLC
15 W 6th St, Suite 900
Tulsa, Oklahoma 74119
(918) 492-1600

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1" = 20'	DESIGNED	JPP	8/30/24	 JARED PODOLNY REGISTERED PROFESSIONAL ENGINEER NO. 25822 OKLAHOMA 8/30/2024
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJ. MGR.	BP	4/26	
			HORIZONTAL:	FIELD MGR.	STC	5/26	
			VERTICAL:	LEAD ENGR.	AS	4/16	
				RECOMMENDED	HAS	5-26	 JARED PODOLNY CITY ENGINEER DATE: AUGUST 2024
				DESIGN MANAGER	HAS	5-26	
			FILE: 1400387-C-13th_Si-01.dgn				DATE: AUGUST 2024
			ATLAS PAGE NO.: 4, 5				SHEET 24 OF 33 SHEETS



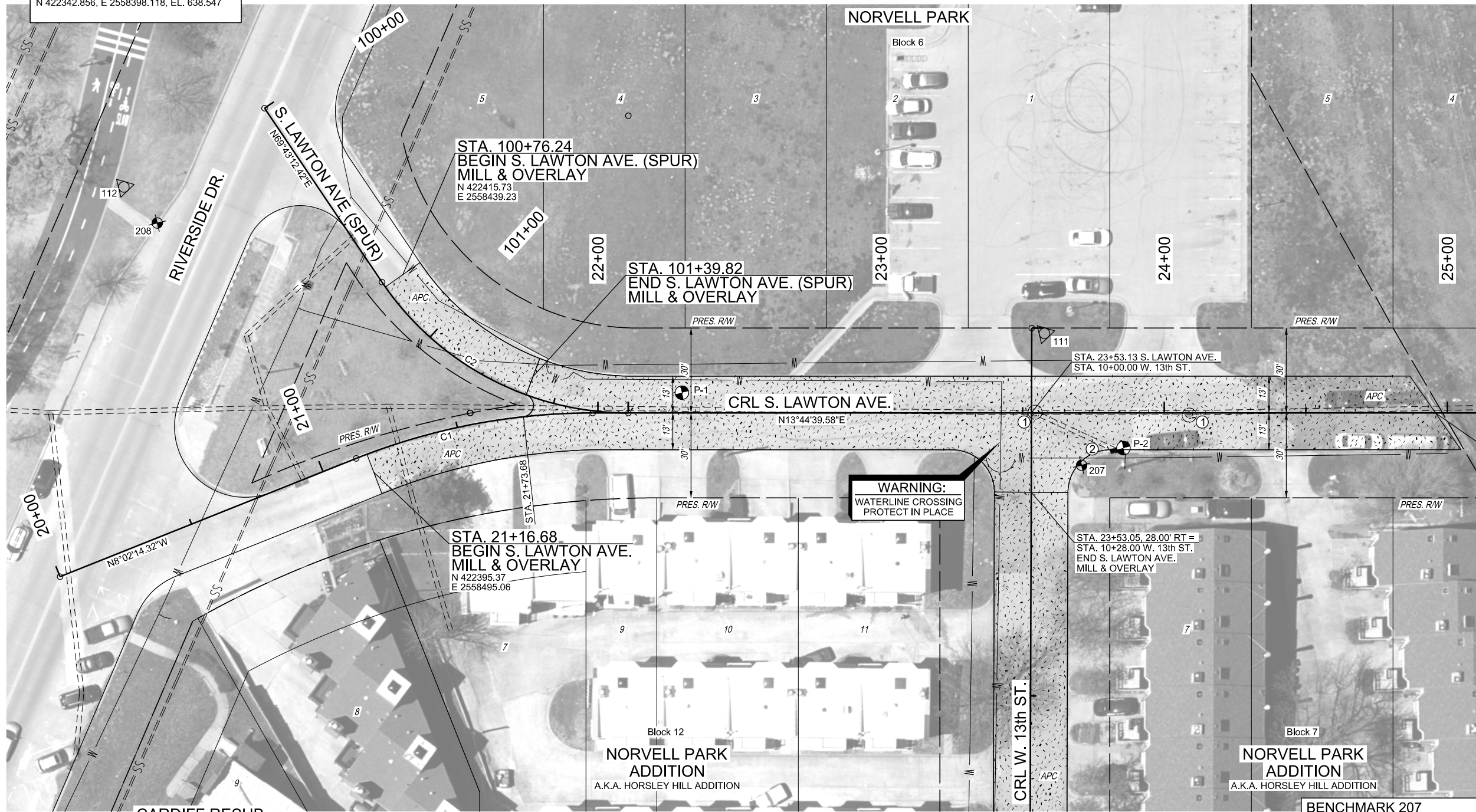
SEC. 11, T19N, R12E

BENCHMARK 208
 CUT X
 STA. 100+12.42, 54.09' RT. S. LAWTON AVE.
 N 422342.856, E 2558398.118, EL. 638.547



**KEYMAP
 LEGEND**

- MILL & OVERLAY
- OVERLAY
- ① ADJUST MANHOLE TO GRADE
- ② ADJUST INLET TO GRADE



STA. 24+95.79
END S. LAWTON AVE.
MILL & OVERLAY
 N 422765.37
 E 2558570.54

WARNING:
 WATERLINE CROSSING
 PROTECT IN PLACE

SCALE: 1"=20'

REHABILITATION PLAN (2)
 STA. 20+00 TO STA. 25+00 S. LAWTON AVENUE
 STA. 100+00 TO STA. 101+40 S. LAWTON AVENUE (SPUR)

NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

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

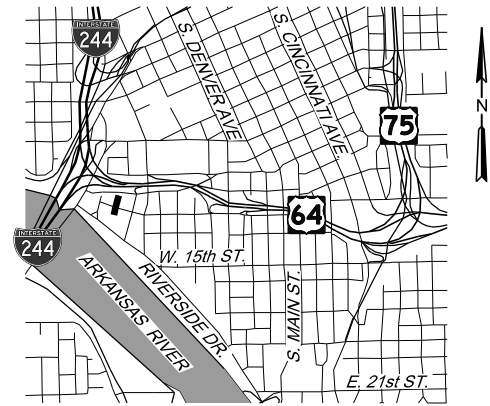
BENCHMARK 207
 CUT X
 STA. 10+18.42, 17.77' LT. W. 13th ST.
 N 422639.611, E 2558558.799, EL. 676.472

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	8/30/24	APPROVED:
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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	PJP	8/26/24	
			HORIZONTAL:	FIELD MGR	Ben	8/26	
			1"= NA	LEAD ENGR	Ben	8/26	
			VERTICAL:	RECOMMENDED			
			1"= NA	DESIGN MANAGER	Hps	8-26	
							CITY ENGINEER
							DATE: AUGUST 2024
							SHEET 25 OF 33 SHEETS



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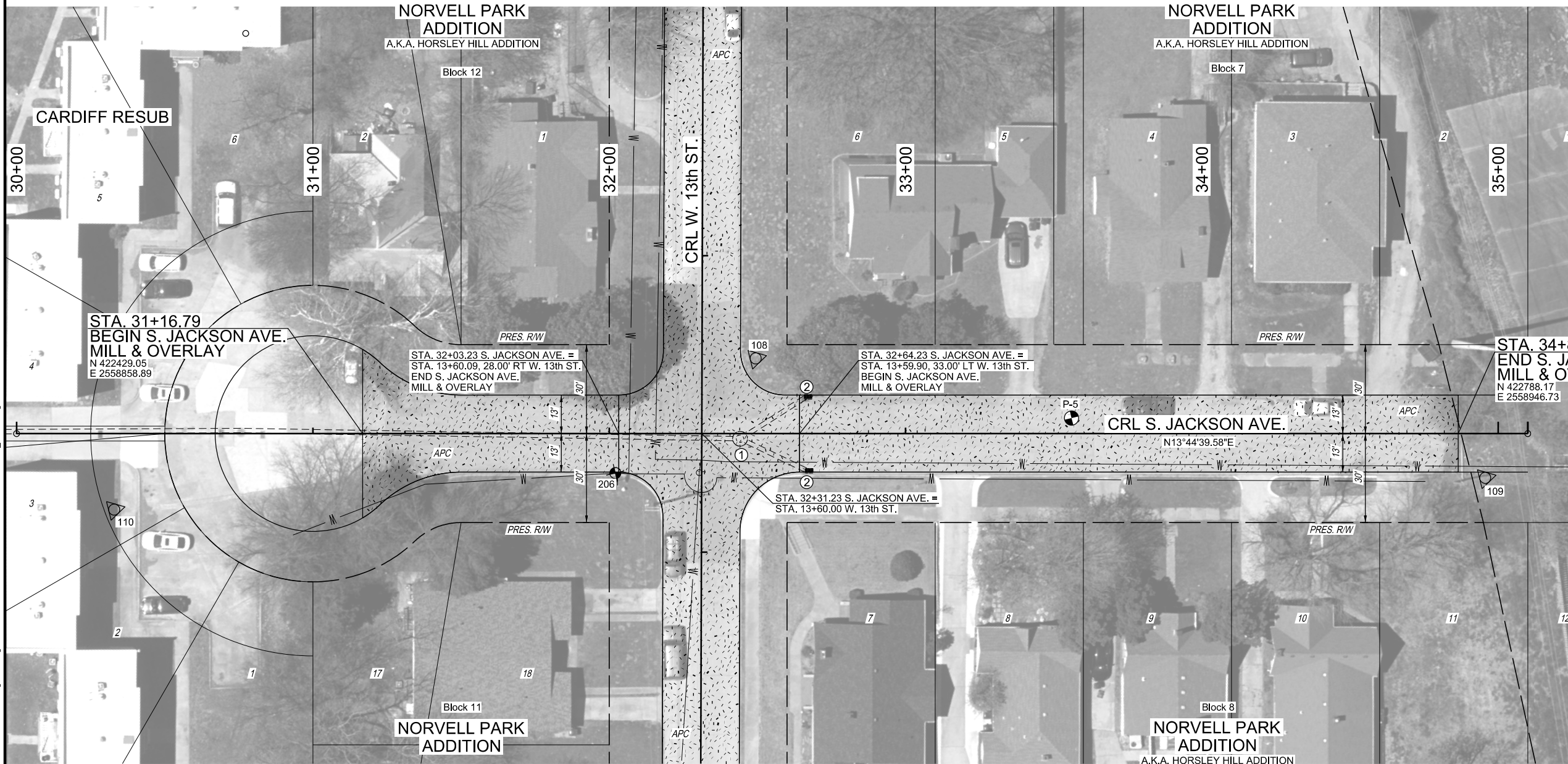
SEC. 11, T19N, R12E



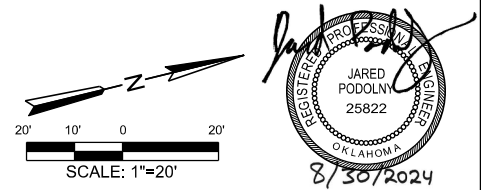
KEYMAP

LEGEND

- MILL & OVERLAY
- OVERLAY
- ① ADJUST MANHOLE TO GRADE
- ② ADJUST INLET TO GRADE



BENCHMARK 206
 CUT X
 STA. 13+73.40, 29.11' RT. W. 13th ST.
 N 422508.728, E 2558892.084, EL. 694.797



Jared Podolny
 REGISTERED PROFESSIONAL ENGINEER
 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024

REHABILITATION PLAN (3)
 STA. 30+00 TO STA. 35+10
 S. JACKSON AVENUE

NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16

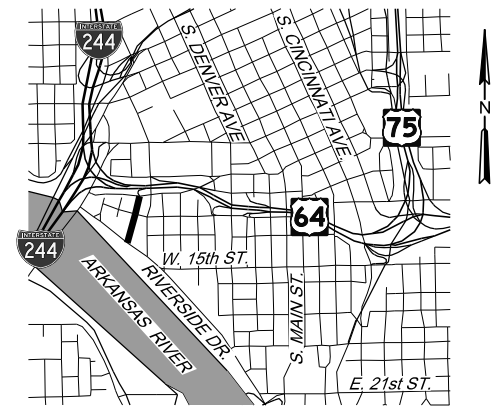
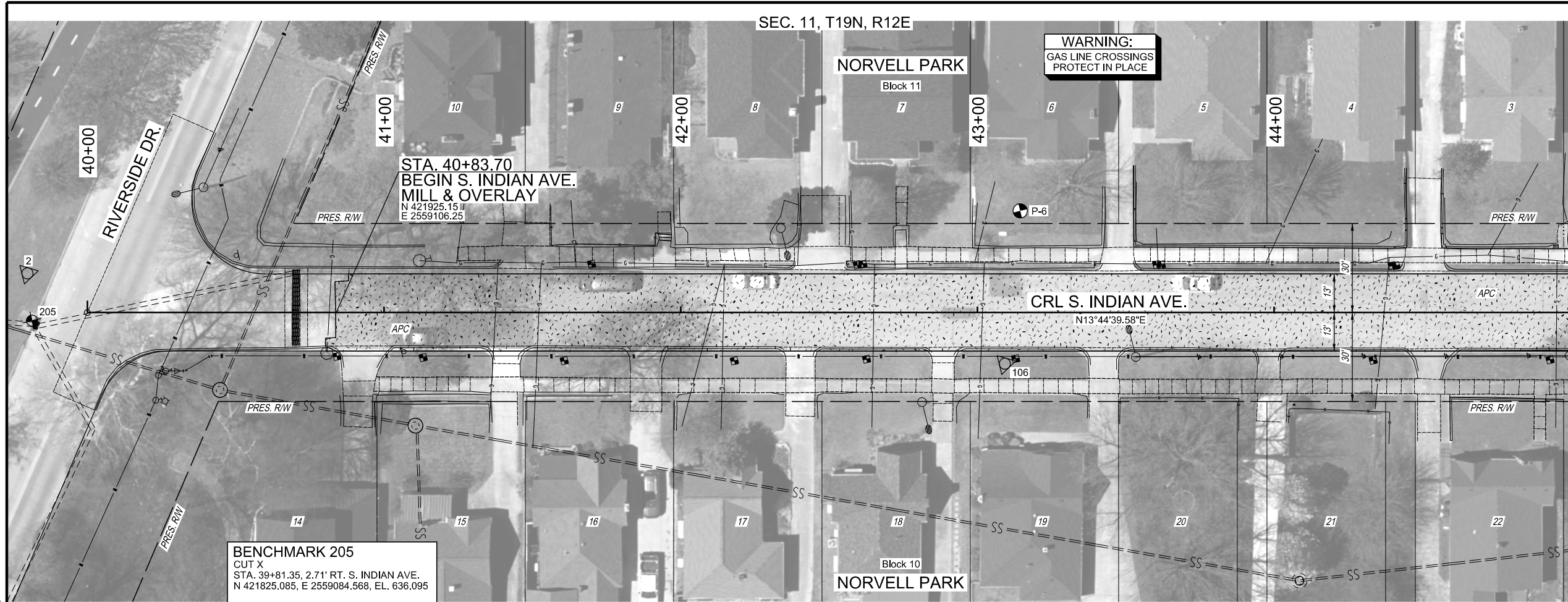
CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

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

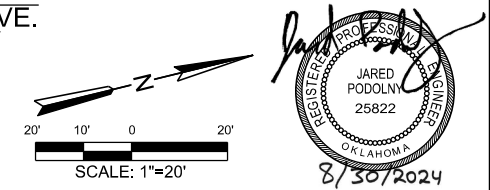
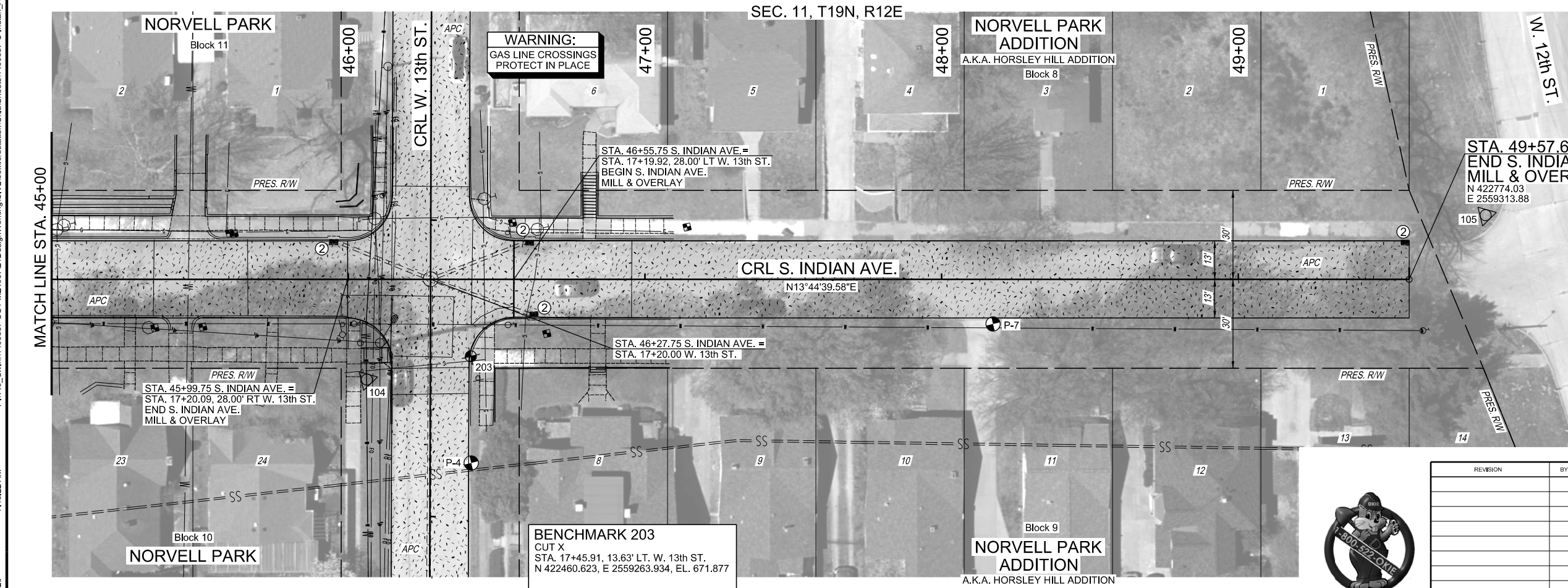
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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	PJP	8/24	
			HORIZONTAL:	FIELD MGR	D	2/26	
			VERTICAL:	LEAD ENGR	Jam 3/26		
				RECOMMENDED	PJP	8/3-24	
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			FILE: 1400387-C-Jackson_Ave-01.dgn				CITY ENGINEER
			ATLAS PAGE NO.: 4, 5				DATE: AUGUST 2024
							SHEET 26 OF 33 SHEETS



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- MILL & OVERLAY
- OVERLAY
- ADJUST MANHOLE TO GRADE
- ADJUST INLET TO GRADE



REGISTERED PROFESSIONAL ENGINEER
JARED PODOLNY
25822
OKLAHOMA
8/30/2024

REHABILITATION PLAN (4)
STA. 40+00 TO STA. 49+58
S. INDIAN AVENUE

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

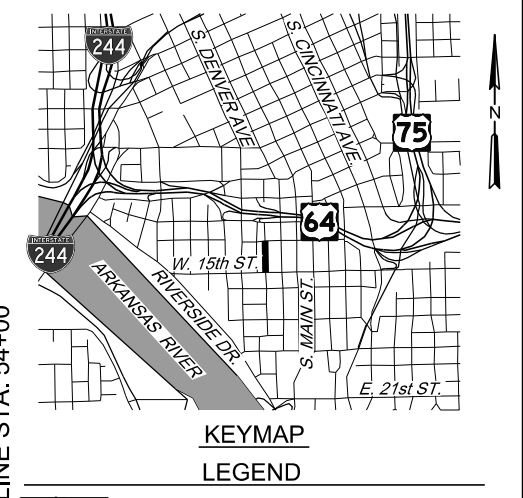
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

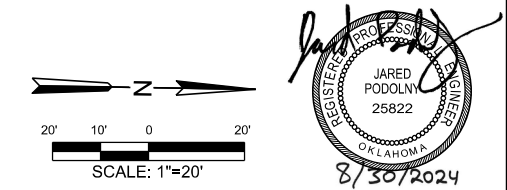
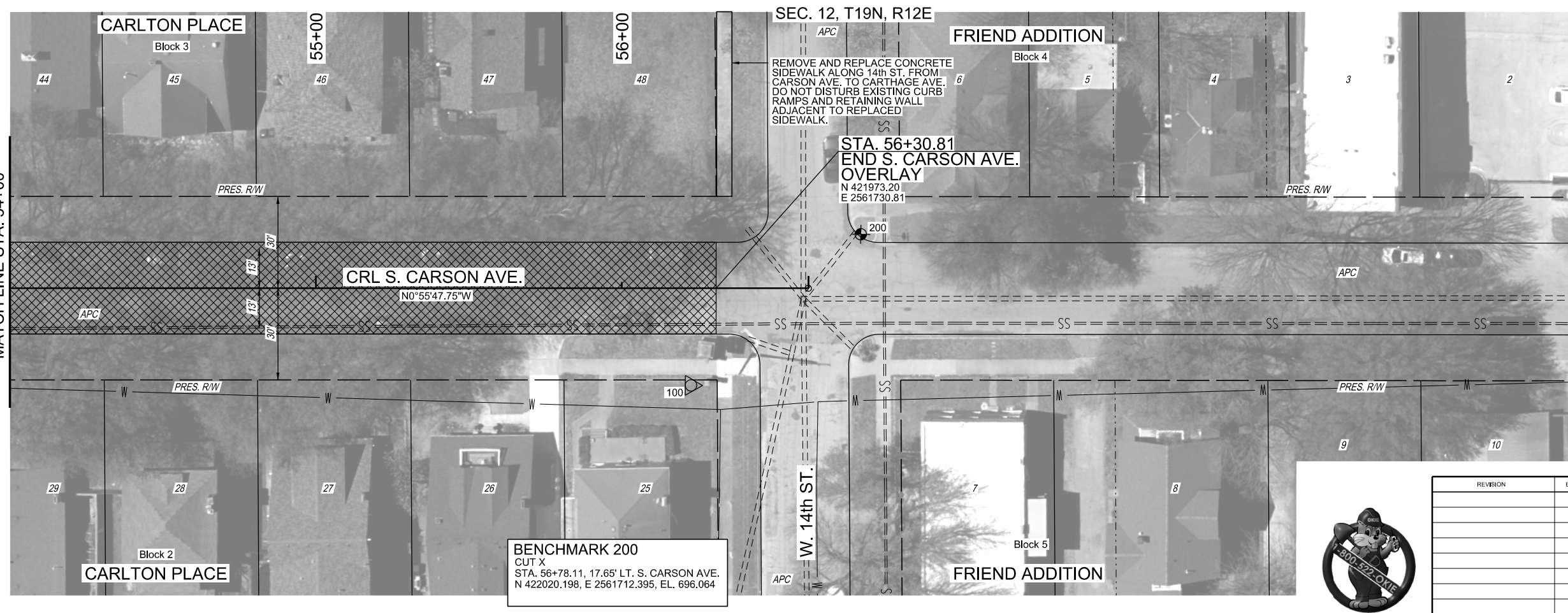
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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	PJP	8/24	
			HORIZONTAL:	FIELD MGR	8/26		
			1" = NA	LEAD ENGR	8/26		
			VERTICAL:	RECOMMENDED	8/26		
			1" = NA	DESIGN MANAGER	8/26		
			FILE: 1400387-C-Indian_Ave-01.dgn				
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6/3/2026



- KEYMAP LEGEND**
- MILL & OVERLAY
 - OVERLAY
 - ① ADJUST MANHOLE TO GRADE
 - ② ADJUST INLET TO GRADE



REHABILITATION PLAN (5)
STA. 50+00 TO STA. 56+60
S. CARSON AVENUE

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

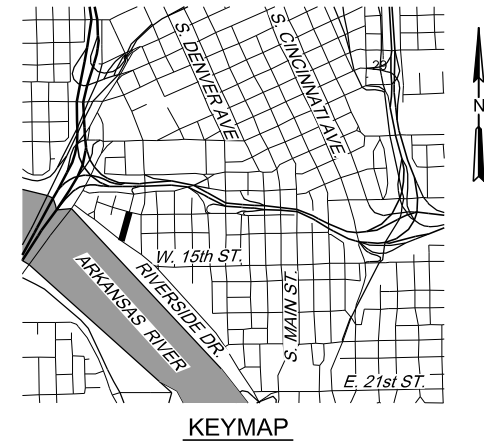
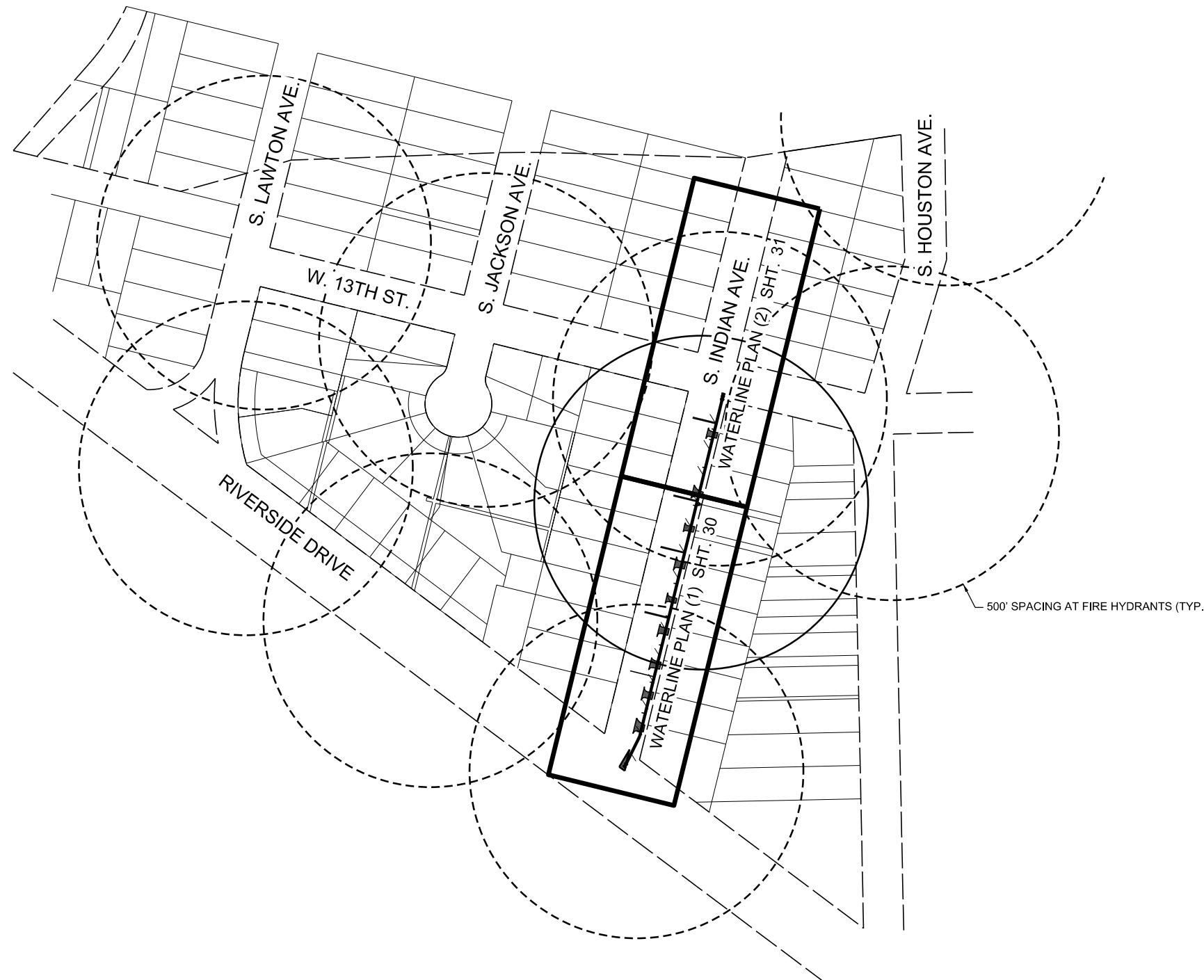
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1" = 20'	DESIGNED	JPP	8/30/24	 JARED PODOLNY REGISTERED PROFESSIONAL ENGINEER OKLAHOMA 25822 8/30/2024
				SURVEY	RDL	8/30/24	
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							SHEET 28 OF 33 SHEETS

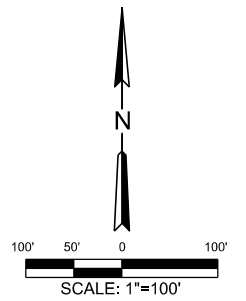


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6/3/2026



LEGEND

- WATERLINE PLAN
- EXISTING FIRE HYDRANT SPACING
- PROPOSED FIRE HYDRANT SPACING



Jared Podolny
REGISTERED PROFESSIONAL ENGINEER
JARED PODOLNY
25822
OKLAHOMA
8/30/2024

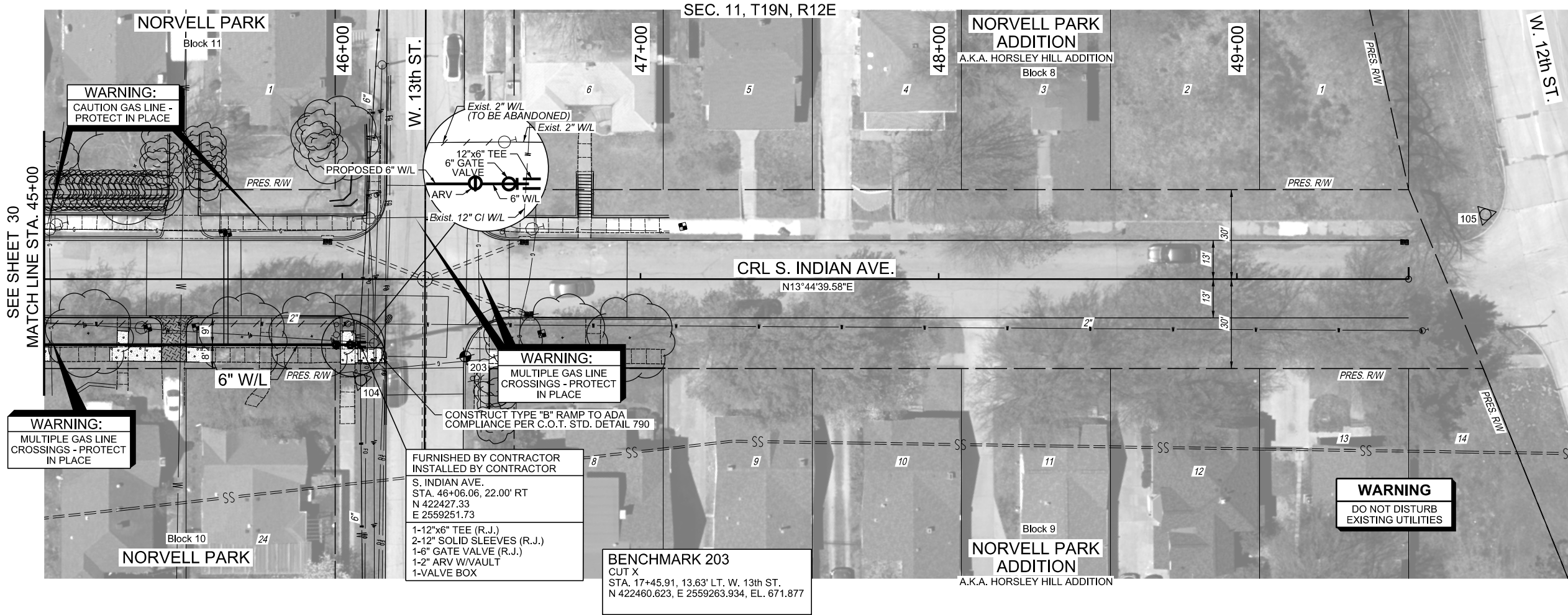
WATERLINE LOCATION MAP
NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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

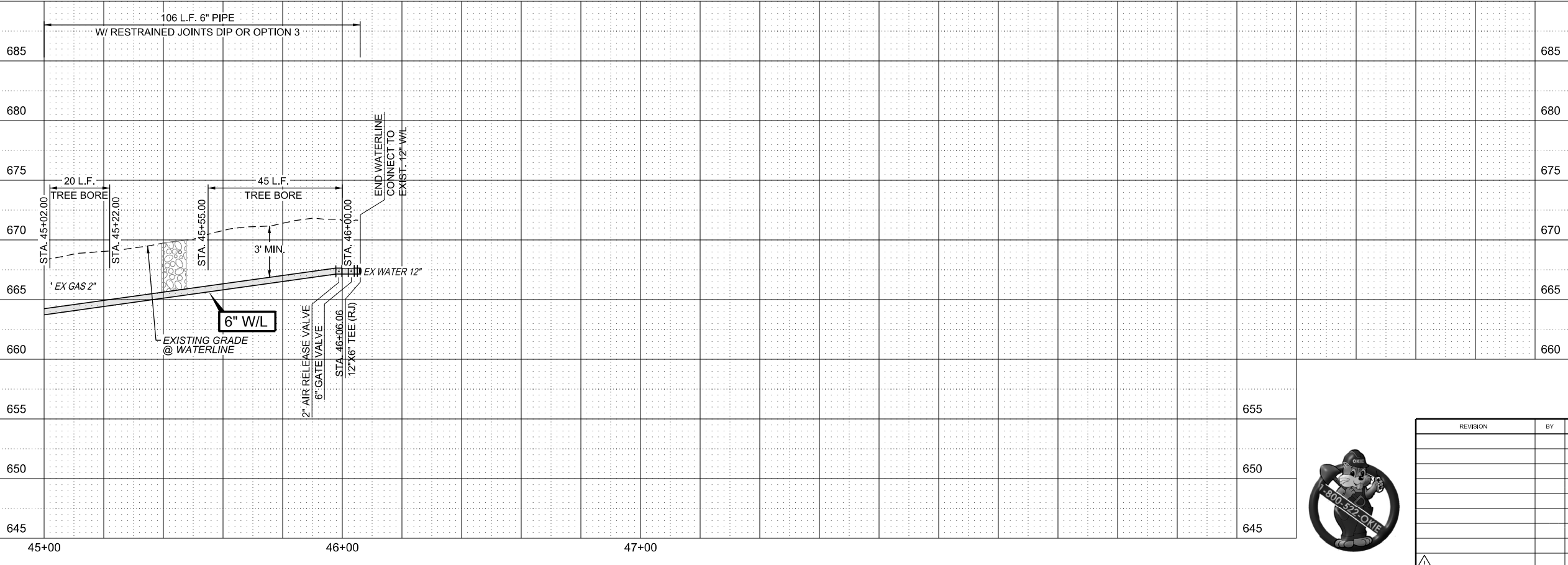
REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	KPD	1/7/26	
			HORIZONTAL:	FIELD MGR	<i>Ben 3/6</i>		
			1"=NA	LEAD ENGR	<i>Cow 1/8/26</i>		
			VERTICAL:	RECOMMENDED	<i>Sharon G. Perry</i>		
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			FILE:	1400387-C-WL Location Map 01.dgn			DATE: AUGUST 2024
			ATLAS PAGE NO.:	4, 5			SHEET 29 OF 33 SHEETS



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- NOTES:**
- SEE SHEET 12 WATERLINE SUMMARIES FOR LOCATION OF WATER METERS TO BE RECONNECTED TO NEW WATERLINE AND SERVICE CONNECTIONS.
 - CONTRACTOR MAY OPEN CUT ALL DRIVEWAY CROSSINGS UNLESS NOTED OTHERWISE.
 - ALL DRIVEWAYS, SIDEWALKS AND PAVEMENT SHALL BE FULL DEPTH SAW CUT BEFORE REMOVING PAVEMENT.
 - EXISTING WATERLINE MAY BE ABANDONED IN-PLACE UNLESS NOTED OTHERWISE.
 - SEE SHEET 12 WATERLINE SUMMARIES FOR DRIVEWAY, SIDEWALK AND PAVEMENT REMOVAL INFORMATION.
 - EXISTING WATER METERS TO BE RECONNECTED TO NEW 6" WATERLINE AFTER THE NEW LINE HAS BEEN CHLORINATED, TESTED AND ACCEPTED. EXACT LOCATION OF WATER METER TIE-IN SHALL BE DETERMINED IN THE FIELD.
 - BACKFILL ALL STREET AND DRIVEWAY CROSSINGS WITH TYPE "A" AGGREGATE BASE MATERIAL PER C.O.T. STD. DETAIL 713.
 - CONTRACTOR SHALL LOCATE AND EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING.
 - CONTRACTOR SHALL CONTACT UTILITY OWNERS PRIOR TO CONSTRUCTION TO VERIFY UTILITY LOCATIONS.



Jared Podolny
REGISTERED PROFESSIONAL ENGINEER
25822
OKLAHOMA
8/30/2024

SCALE: 1"=20'

WATERLINE PLAN & PROFILE (2)
STA. 45+00 TO STA. 49+58
S. INDIAN AVENUE

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

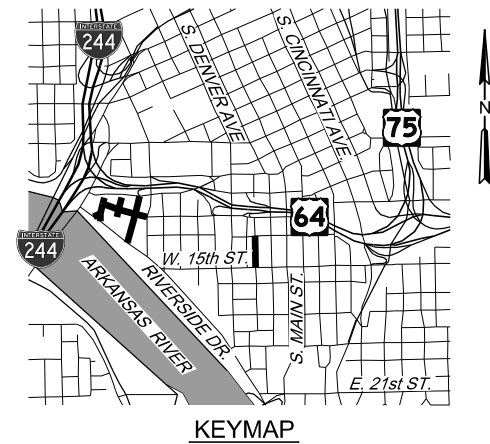
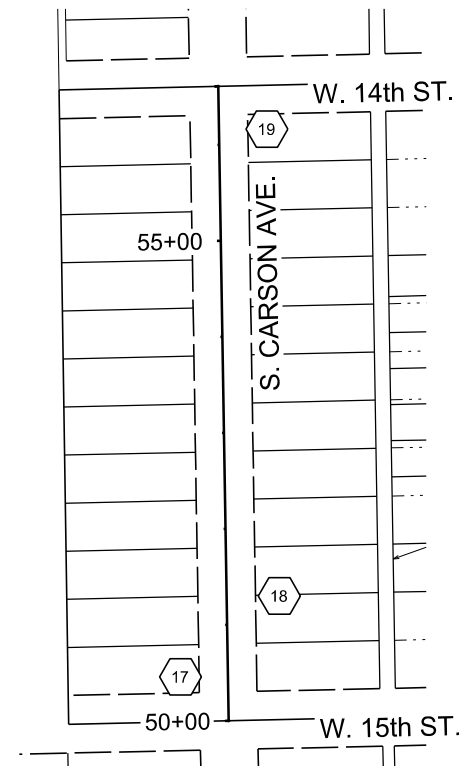
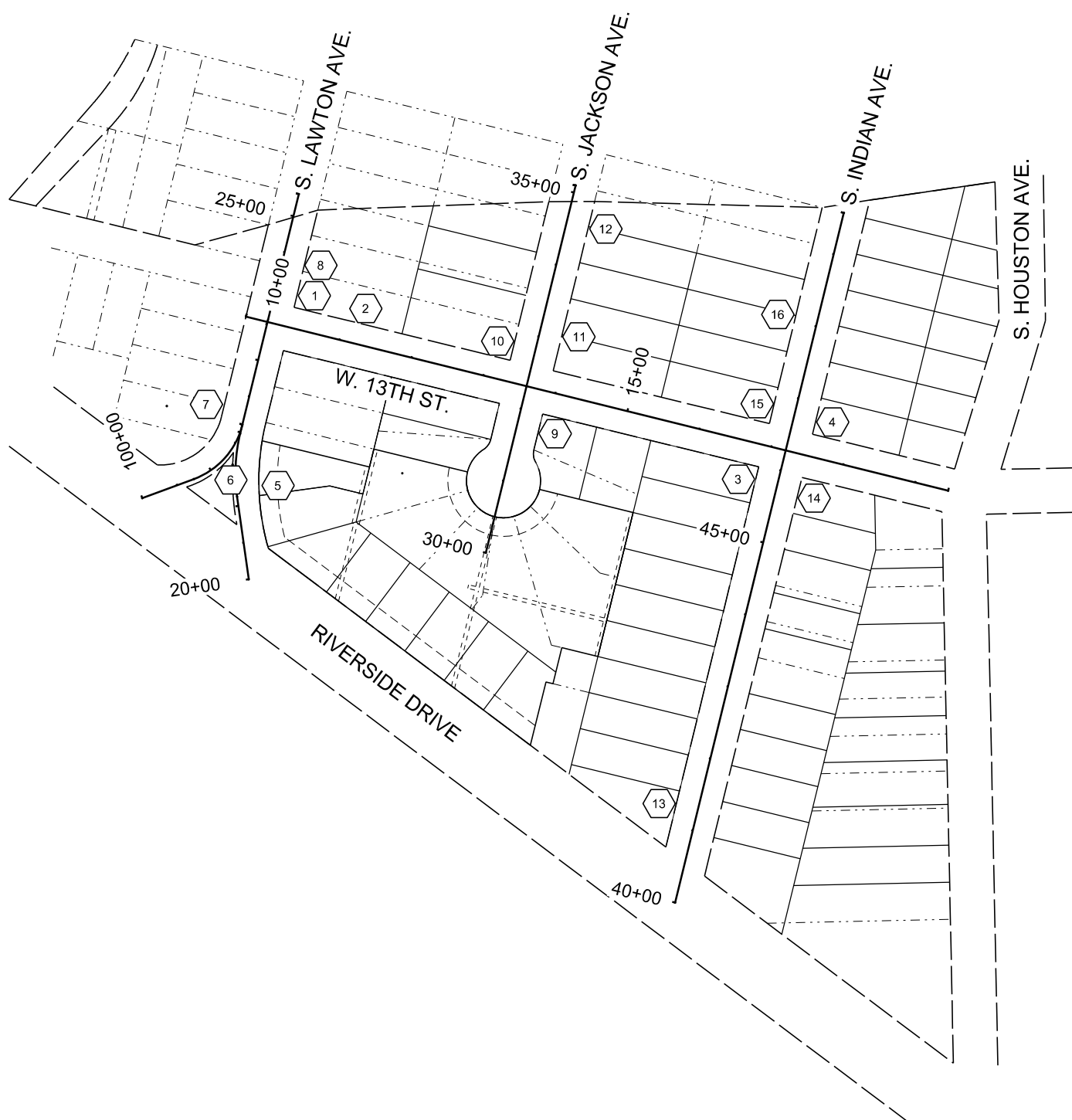
BENHAM Benham Design, LLC
a Haskell Company
15 W 6th St. Suite 900
Tulsa, Oklahoma 74119
(918) 492-1600

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1"= 20'	DESIGNED	JPP	8/30/24	
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJ. MGR.			
			HORIZONTAL:	FIELD MGR.			
			1"= 20'	LEAD ENGR.			
			VERTICAL:	RECOMMENDED			
			1"= 5'	DESIGN MANAGER			
				FILE:	1400387-C-WL_Indian-02.dgn		
				ATLAS PAGE NO.:	4, 5		



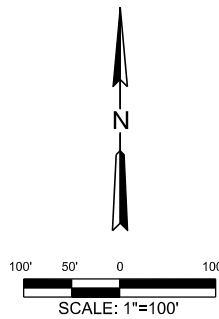
DATE: AUGUST 2024
SHEET 31 OF 33 SHEETS

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- LEGEND**
- SIGN
 - SIGN NUMBER

NOTES
 SEE SIGN SCHEDULE ON SHEET 11 FOR ADDITIONAL SIGNS NOT SHOWN ON THE PLANS.
 SP. SIGNS 1-3 SHOULD BE SET AT AN ANGLE NO LESS THAN 30 DEGREES OR MORE THAN 45 DEGREES WITH THE LINE OF TRAFFIC FLOW IN ORDER TO BE VISIBLE TO APPROACHING TRAFFIC AS SPECIFIED IN MUTCD 2B.48-01. THE ARROW WILL POINT IN THE DIRECTION THAT THE REGULATION IS IN EFFECT.
 CONTACT MICHAEL VAN SLYKE, CITY OF TULSA AT 918-591-4279 FOR SIGN SPECIFICATIONS



Jared Podolny
 REGISTERED PROFESSIONAL ENGINEER
 JARED PODOLNY
 25822
 OKLAHOMA
 8/30/2024



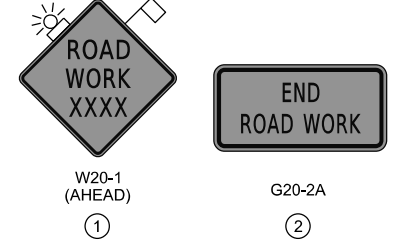
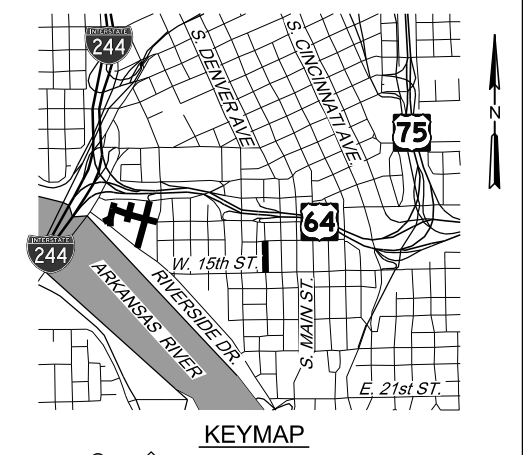
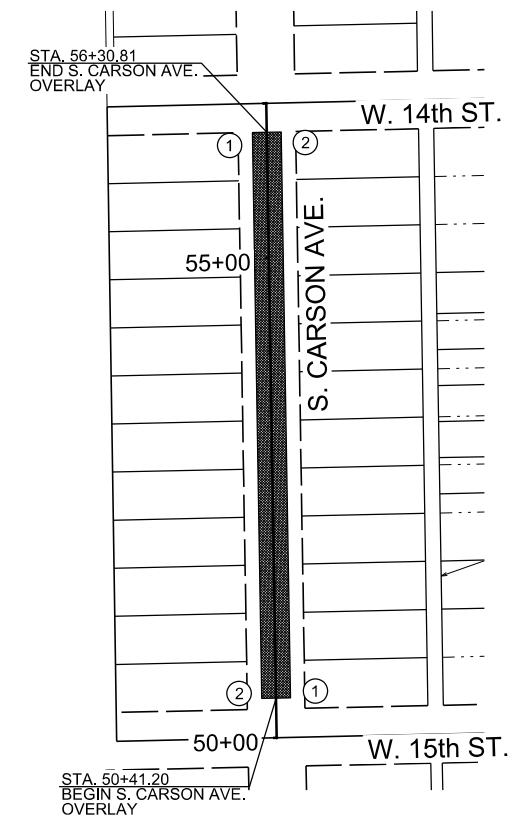
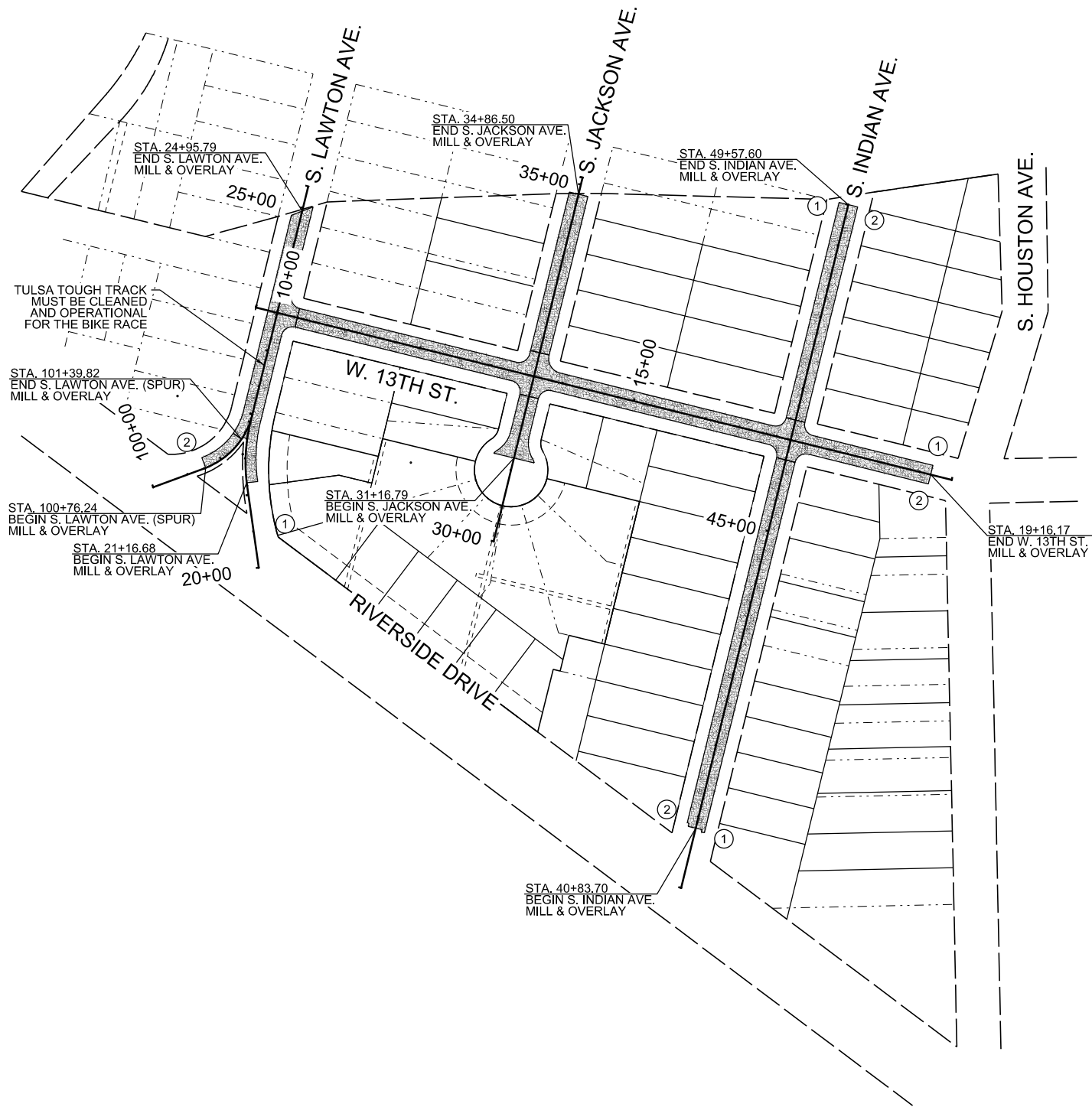
SIGNING PLAN
 NON-ARTERIAL STREET REHABILITATION
 MZ 4067
 PROJECT NO. 2036N4067Z
 TMUA-W 22-16
 CITY OF TULSA, OKLAHOMA
 PUBLIC WORKS DEPARTMENT

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

REVISION	BY	DATE	PLAN SCALE	DRAWN	BW	DATE	APPROVED:
			1" = 100'	DESIGNED	JPP	8/30/24	<i>Jared Podolny</i> CITY ENGINEER
				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	<i>DJP</i>	<i>12/24</i>	
			HORIZONTAL:	FIELD MGR	<i>Blair</i>	<i>3/26</i>	
			VERTICAL:	LEAD ENGR	<i>HS</i>	<i>4/26</i>	
				RECOMMENDED	<i>HS</i>	<i>3-26</i>	
				DESIGN MANAGER	<i>HS</i>	<i>3-26</i>	
			FILE: 1400387-C-Signing-01.dgn				DATE: AUGUST 2024
			ATLAS PAGE NO.: 4, 5				SHEET 32 OF 33 SHEETS



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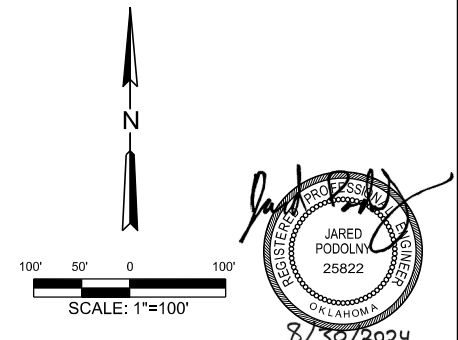
NOTE:
AFTER PAVEMENT IS MILLED, THE ENGINEER AND FIELD STAFF SHALL DETERMINE PATCHING LOCATIONS BEFORE ANY PATCHING WORK CAN BEGIN.

CONTRACTOR SHALL ONLY BE ALLOWED TO WORK WITHIN ONE STREET AT A TIME. ALL WORK WITHIN THAT STREET IS TO BE COMPLETED BEFORE WORK IN ANOTHER STREET CAN BE STARTED.

OPEN MILLED OR EXPOSED SURFACES WILL BE AT THE CONTRACTOR'S RISK IN THE EVENT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO ANY SURFACES.

RESIDENTIAL ACCESS TO REMAIN OPEN DURING THE ENTIRETY OF THE PROJECT.

TRAFFIC CONTROL SHALL USE MUTCD STANDARDS WITH A 25 MPH CONSTRUCTION SPEED ZONE.



Jared Podolny
REGISTERED PROFESSIONAL ENGINEER
JARED PODOLNY
25822
OKLAHOMA
8/30/2024

REQUIRED SEQUENCE OF CONSTRUCTION & TRAFFIC CONTROL (1)

NON-ARTERIAL STREET REHABILITATION
MZ 4067
PROJECT NO. 2036N4067Z
TMUA-W 22-16

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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				SURVEY	RDL	8/30/24	
			PROFILE SCALE	PROJECT MGR	<i>JPP</i>	12/24	
			HORIZONTAL:	FIELD MGR	<i>[Signature]</i>	2/26	
			VERTICAL:	LEAD ENGR	<i>[Signature]</i>	8/22	
				RECOMMENDED	<i>[Signature]</i>	8/22	
				DESIGN MANAGER	<i>[Signature]</i>	8/22	
			FILE: 1400387-C-Traffic_Seq-01.dgn				CITY ENGINEER
			ATLAS PAGE NO.: 4, 5				DATE: AUGUST 2024
							SHEET 33 OF 33 SHEETS

