# Non-Arterial Street Rehabilitation/Maintenance
# Maintenance Zone 5027

## Project No. 2036N5027Z, TMUA-W 22-19

## City of Tulsa, Oklahoma

Account No. 2036N8057Z.Streets.NArtRhb.4282.42823122-541106
2231W00009.WATERDIST.WATER.7400.74003122-541101

MYLAR
PLANS
10/2023

**CITY UTILITIES:**
THE CITY OF TULSA
UTILITY COORDINATOR
ATTN:
2317 SOUTH JACKSON AVENUE
TULSA, OKLAHOMA 74103
918.596.9649

**GAS:**
OKLAHOMA NATURAL GAS COMPANY
ATTN: TIM HELBIG
2319 W. EDISON
TULSA, OKLAHOMA 74121
918.831.8387

**TELEPHONE:**
AT&T COMMUNICATION INC.
ATTN: WAYNE GROOM
5305 EAST 71ST STREET
TULSA, OKLAHOMA 74135
918.527-7309

**CABLE TELEVISION:**
COX COMMUNICATIONS
ATTN: JASON HOLT
11811 E. 51ST STREET S.
TULSA, OKLAHOMA 74146
918.830-7238

**ELECTRIC:**
AEP/PUBLIC SERVICE COMPANY OF OKLAHOMA
ATTN: LONNY HICKS
212 EAST SIXTH STREET
TULSA, OKLAHOMA 74119
918.250.6211

**SURVEY NOTE**
HORIZONTAL DATUM IS BASED ON OKLAHOMA STATE PLANE COORDINATE SYSTEM

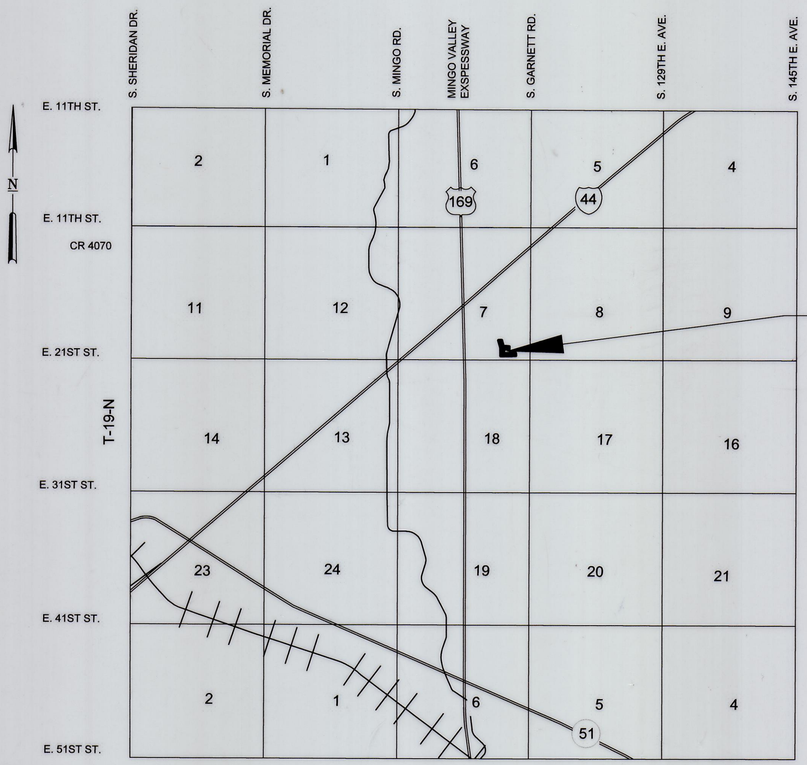
VERTICAL DATUM IS BASED ON NAVD 1988

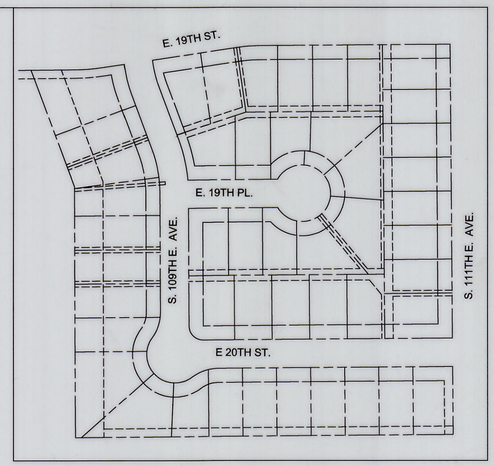
SITE SPECIFIC BENCHMARKS AS SHOWN ON RIGHT OF WAY AND SURVEY DATA SHEET (SHEET 9)

**LEGEND**

| | |
|---|---|
| FENCE | |
| T | TELEPHONE OVERHEAD |
| W | POWER LINE OVERHEAD |
| G | GAS LINE |
| PUG | POWER UNDERGROUND |
| TUG | TELEPHONE UNDERGROUND |
| TVUG | TV UNDERGROUND |
| W | WATER LINE |
| SS | SANITARY SEWER LINE |
| FM | FORCE MAIN |
| S | STORM SEWER LINE |
| FLOW LINE DITCH | |
| SF | SILT FENCE |
| PROPERTY BOUNDARY | |
| DRAINAGE AREA BOUNDARY | |
| RIGHT OF WAY BOUNDARY | |
| (D) | PROPOSED MANHOLE |
| (1) | PROPOSED INLET |
| (D) | EXISTING MANHOLE |
| [b] | EXISTING INLET LETTER |
| | VALVE |
| | GATE VALVE |
| | REDUCER |
| | DOUBLE CHECK DETECTOR |
| | TEE |
| | PLUG VALVE |
| | 11 1/4° ELBOW |
| | 22 1/2° ELBOW |
| | 45° ELBOW |
| | 90° ELBOW |
| | TAPPING SLEEVE |
| | FIRE HYDRANT |
| | WATER METER |
| | BLOWOFF HYDRANT |
| | PLUG |

| | |
|---|---|
| AH | AHEAD |
| BK | BACK |
| D.L. | DRAINAGE LENGTH |
| E | EASTING |
| FL | FLOW LINE |
| GTR | GUTTER |
| HDPE | HIGH DENSITY POLYETHYLENE |
| LF | LINEAR FEET |
| N | NORTHING |
| PC | POINT OF CURVATURE |
| PI | POINT OF INTERSECTION |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SPHD | SPRINKLER HEAD |
| TR | TOP OF RIM |
| TYP | TYPICAL |
| V.C. | VERTICAL CURVE |
| VPI | VERTICAL POINT OF INTERSECTION |




ENLARGED SITE MAP

## Location Map

SCALE: NONE

PROJECT LENGTH = 2605.10 LANE FEET
= 0.492 LANE MILES
DESIGN SPEED = 25 MPH

**NOTICE TO CONTRACTOR**
**CAUTION**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

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

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

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. IS ADOPTED BY CITY OF TULSA.
THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS.

Sheet List Table



**CITY OF TULSA STANDARD DRAWINGS**

102 - PROJECT SIGN
126 - STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
304 - BEDDING DETAIL - RIGID PIPE
608A - STREET NAME SIGNS
608B - TRAFFIC SIGNS
702 - RESIDENTIAL CONCRETE DRIVEWAY ASPHALT STREET
713 - PAVEMENT REMOVAL AND REPLACEMENT
714 - PAVEMENT CUTS
725 - STANDARD PAVEMENT PATCH AND REPAIR
726 - ASPHALT PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR STREETS
730 - STANDARD ASPHALT PAVEMENT CUT AND REPAIR
731 - STANDARD CONCRETE PAVEMENT CUT AND REPAIR
764 - STANDARD REINFORCED CONCRETE STORMWATER INLETS
765 - STANDARD STORMWATER FRAMES
766 - STANDARD STORMWATER GRATES
767 - STANDARD CAST IRON CURB

**ODOT STANDARD DRAWINGS**

TFL-2 TEMPORARY FIBER LOG
TCS8-1 CONSTRUCTION SIGNS
TCS9-1 TRAFFIC CONTROL STANDARD CONSTRUCTION SIGNS
TWD-2 TACTILE WARNING DEVICES

**BENCHMARKS:**

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

**ADS BENCHMARKS:**

| | |
|---|---|
| STATION NAME: 2016-3<br>NORTHING 388083.64<br>EASTING 2582626.36<br>ELEVATION 745.84 | STATION NAME: 2016-43<br>NORTHING 392879.21<br>EASTING 2582754.18<br>ELEVATION 844.49 |

CITY OF TULSA, OKLAHOMA

09.26.25
DATE

10.10.25
ADVERTISEMENT DATE

PREPARED BY:

LANCE K. WOOLSEY, PE NO 15383


wallace design collective, pc
structural . civil . landscape . survey
123 north martin luther king jr. blvd.
tulsa, ok 74103
(918) 584-5858
oklahoma ca #1460
exp date: 06/30/2025


PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 COVER.dwg
DATE: Nov 29, 2023 - 8:38AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## SUMMARY OF QUANTITIES (REV 11/14/2018)

| ITEM | SPEC. NO. | DESCRIPTION | PAY ITEM NOTE | UNIT | QUANTITY TOTAL | S 109TH E AVE | | | E 19TH PL | | E 20TH ST | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | SHT 15 | SHT 21 | SHT 22 | SHT 16 | SHT 23 | SHT 17 | SHT 24 | SHT 25 |
| 1 | 202(A) | UNCLASSIFIED EXCAVATION | E-3, 4, R-1 | CY | 430 | | 188.2 | 99.7 | | 95.5 | | 27.1 | 19.4 |
| 2 | 220 | SWPPP DOCUMENTATION AND MANAGEMENT | E-6 | LSUM | 1 | | | | | | | | |
| 3 | 221(K) | TEMPORARY FIBER LOG | E-7 | LF | 48 | | | 12.0 | | 24.0 | | | 12.0 |
| 4 | 230(A) | SOLID SLAB SODDING (LIKE KIND) | E-10, 11 | SY | 144 | | 71.7 | 56.7 | | 6.2 | | 6.2 | 3.1 |
| 5 | 303(A) | AGGREGATE BASE TYPE A | S-1, 2 | CY | 689 | | 285.0 | 136.9 | | 141.7 | | 83.5 | 41.5 |
| 6 | 310(B) | SUBGRADE METHOD B | | SY | 1126 | | 285.0 | 295.3 | | 359.6 | | 108.3 | 77.9 |
| 7 | 325 | SEPARATOR FABRIC | S-3 | SY | 1945 | | 866.5 | 368.0 | | 439.3 | | 153.9 | 117.0 |
| 8 | 409 | FABRIC REINFORCEMENT, GLASSPAVE25 | S-4 | SY | 3894 | | 1117.1 | 635.0 | | 912.1 | | 718.3 | 511.0 |
| 9 | 411(C) | SUPERPAVE, TYPE S4 (PG 64-22) (INSOLUBLE) | S-5, 6, 7, 8 | TON | 436 | | 125.1 | 71.2 | | 102.2 | | 80.5 | 57.2 |
| 10 | 411(E) | SUPERPAVE, TYPE S6 (PG 64-22) | S-5, 6, 7, 8, G-1 | TON | 218 | | 62.5 | 35.6 | | 51.1 | | 40.3 | 28.7 |
| 11 | 412 | COLD MILL PAVEMENT | S-9 | SY | 3894 | | 1117.1 | 635.0 | | 912.1 | | 718.3 | 511.0 |
| 12 | 509(B) | CLASS A CONCRETE | S-12, 13 | CY | 21 | | | 6.9 | | 6.9 | | | 6.9 |
| 13 | 511(A) | REINFORCING STEEL | | LB | 1631 | | | 543.6 | | 543.6 | | | 543.6 |
| 14 | 609(A) | 2'-2" COMBINED CURB AND GUTTER (6"BARRIER) | S-12, 13, 15, 16 | LF | 400 | | 246.0 | 23.0 | | 58.6 | | 14.8 | 58.0 |
| 15 | 610(B) | 4" CONCRETE SIDEWALK | S-12, 13, 16, 17 | SY | 126 | | | 103.4 | | 22.1 | | | |
| 16 | 610(B) | 6" CONCRETE DRIVEWAY | S-12, 13, 16, 17 | SY | 429 | | 103.4 | 80.9 | | 57.8 | | 141.4 | 45.7 |
| 17 | 611(A) | 6'-DIA. MANHOLE, COMPLETE IN PLACE | D-1, 2, 3, 4, 5 | EA | 1 | | 1.0 | | | | | | |
| 18 | 611(G) | CICI INLET DESIGN NO. 2(STD), COMPLETE IN PLACE | D-2, 3, 7, 8, 9, 10, 11 | EA | 3 | | 2.0 | | | | | | 1.0 |
| 19 | 610(I) | TACTILE WARNING DEVICE | | SF | 48 | | | 16.0 | | 16.0 | | | 16.0 |
| 20 | 611(I) | REPLACEMENT OF INLET FRAME AND GRATE | R-2, 4, 5 | EA | 6 | | | 2.0 | | 4.0 | | | |
| 21 | 611(M) | REPLACEMENT OF CURB HOOD | R-2, 4, 5 | EA | 6 | | | 2.0 | | 4.0 | | | |
| 22 | 612(A) | MANHOLE ADJUSTED TO GRADE (PUBLIC) | S-12, R-2, D-1, 2, 6 | EA | 1 | | | | | 1.0 | | | |
| 23 | 612(C) | INLET ADJUST TO GRADE | S-12, R-2, D-2, 6, 7, 9 | EA | 4 | | | 1.0 | | 2.0 | | | 1.0 |
| 24 | 612(E) | VALVE BOXES ADJUSTED TO GRADE | S-12, R-2, D-6 | EA | 2 | | 2.0 | | | | | | |
| 25 | 613(A) | RCP, 15-INCH ROUND, COMPLETE IN PLACE | D-8, 12, 13 | LF | 336 | | 336.0 | | | | | | |
| 26 | 619(B) | REMOVAL OF CONCRETE SIDEWALK | R-1, 2, 5, 6 | SY | 53 | 30.9 | | | 22.1 | | | | |
| 27 | 619(B) | REMOVAL OF CONCRETE DRIVEWAY | R-1, 2, 5, 6 | SY | 429 | 184.3 | | | 57.8 | | 187.1 | | |
| 28 | 619(B) | REMOVAL OF CURB AND GUTTER | R-1, 2, 5, 6 | LF | 448 | 285.0 | | | 78.6 | | 84.8 | | |
| 29 | 619(B) | REMOVAL OF INLET W/ HOOD & GRATE | R-1, 2, 5, 6 | EA | 1 | | | | | | | | 1.0 |
| 30 | 619(B) | REMOVAL OF INLET HOOD | R-1, 2, 5, 6 | EA | 3 | 1.0 | | | 2.0 | | | | |
| 31 | 641 | MOBILIZATION | G-2 | EA | 1 | | | | | | | | |
| 32 | 642 | CONSTRUCTION STAKING, LEVEL II | G-3, 4 | EA | 1 | | | | | | | | |
| 33 | 805(A) | REMOVAL OF TRAFFIC ITEMS | T-1 | EA | 2 | 1.0 | | | | | 1.0 | | |
| 34 | 880(B) | SIGNS 0.00 TO 6.25 SF | T-4, 5 | SD | 210 | | 45.0 | 45.0 | | 30.0 | | 45.0 | 45.0 |
| 35 | 880(B) | SIGNS 6.25 TO 15.99 SF | T-4, 5 | SD | 420 | | 90.0 | 90.0 | | 60.0 | | 90.0 | 90.0 |
| 36 | 880(B) | SIGNS 16.00 SF AND UP | T-4, 5 | SD | 120 | | 45.0 | | | 30.0 | | | 45.0 |
| 37 | 880(C) | BARRICADES (TYPE III) | T-4, 5 | SD | 120 | | 45.0 | | | 30.0 | | | 45.0 |
| 38 | 880(E) | WARNING LIGHTS (TYPE A) | T-4, 5 | SD | 420 | | 90.0 | 90.0 | | 60.0 | | 90.0 | 90.0 |
| 39 | 880(E) | WARNING LIGHTS (TYPE C) | T-4, 5 | SD | 623 | | 150.0 | 163.0 | | 75.0 | | 135.0 | 100.0 |
| 40 | 880(F) | DRUMS | T-4, 5 | SD | 1160 | | 315.0 | 225.0 | | 150.0 | | 270.0 | 200.0 |
| 41 | 880(G) | TUBE CHANNELIZERS | T-4, 5 | SD | 1160 | | 315.0 | 225.0 | | 150.0 | | 270.0 | 200.0 |
| 42 | SPECIAL | PROJECT SIGN (CITY OF TULSA) | T-7 | EA | 2 | | | | | | | | |
| 43 | SPECIAL | TYPE I AC PATCH, NON-ARTERIAL | S-21, G-1 | CY | 232 | | 62.7 | 24.6 | | 29.9 | | 108.3 | 6.5 |
| 44 | SPECIAL | URBAN RIGHT-OF-WAY RESTORATION | G-5, 6, 7, 8, 9, 10 | EA | 1 | | | | | | | | . |
| 45 | SPECIAL | OWNER ALLOWANCE | | EA | 25000 | | | | | | | | |
| 46 | SPECIAL | SIDEWALK RAMP | | EA | 6 | | | 2.0 | | 2.0 | | | 2.0 |
| 47 | SP COT 202 | QUICK SET FLOWABLE FILL | G-1, D-8 | CY | 1 | | | | | | | | |
| 48 | SP COT 334 | CONSTRUCTION AS-BUILTS | | EA | 1 | | | | | | | | |
| 49 | SP COT 335 | CONTRACTOR'S QUALITY CONTROL | | EA | 1 | | | | | | | | |
| 50 | SP COT 608(A) | GROUND SIGN | T-2 | SF | 16 | | | 8.0 | | | | 8.0 | |
| 51 | SP COT 608(C) | 1 1/2" SQUARE TUBE POST | | LF | 3 | | | 1.5 | | | | 1.5 | |
| 52 | SP COT 608(D) | 1 3/4" SQUARE TUBE POST | | LF | 21 | | | 10.5 | | | | 10.5 | |
| 53 | SP COT 608(E) | 2" SQUARE TUBE POST | | LF | 6 | | | 3 | | | | 3 | |

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.

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
12-01-2023

| REVISION | BY | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| | | |

**SUMMARY OF PAY QUANTITIES**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | | 9.21.25 |

APPROVED

FILE: DRAWING:
ATLAS PAGE NO: 178
DATE: 09.26.25
SHEET 2 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 SUMMARY OF QUANTITIES.dwg
DATE: Dec 19, 2023 - 3:46PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

**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. QUANTITY CHANGES WILL NOT BE CONSIDERED FOR LATERAL DIFFERENCES IN EXCAVATIONS RESULTING FROM CONTRACTOR'S ACTUAL SLOPED OR SHORED EXCAVATIONS

**E-4:** UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED.

**E-5:** NOT USED

**E-6:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.

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

**E-8:** NOT USED

**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.

**S-8 (TABLE):**

| BINDER GRADE[2] | 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 TEMP. 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 PG 76-28 OK MAY BE DESIRABLE IN HIGH VOLUME AREAS WHERE SLOW, STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF-RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AS THE MAINLINE.**

**S-9:** THIS ITEM INCLUDES ALL COSTS ASSOCIATED WITH COLD MILLING AND TO PROVIDE BUTT JOINTS AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COLD MILLING BEYOND THE AVERAGE DEPTH SHOWN ON THE TYPICAL SECTIONS.

**S-10:** 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:** REPLACE AC 1 DRIVEWAY GUTTER, AS NEEDED, FOR POSITIVE STORMWATER DRAINAGE AND SMOOTH DRIVEWAY TRANSITIONS

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

**R-1:** WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.

**R-2:** ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.

**R-3:** NOT USED

**R-4:** NOT USED

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

**R-6:** SHALL INCLUDE ALL COSTS ASSOCIATED WITH PLUGGING/ PATCHING HOLES IN EXISTING STRUCTURES TO REMAIN.

**R-7:** REMOVE PAVEMENT ON CONCRETEDRIVEWAYS, APRONS AND GUTTERS DURING EDGE MILLING AND COLD MILLING OPERATIONS.

**GENERAL (G1 - G10)**

**G-1:** LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.

**G-2:** MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
EXCLUDES MOBILIZATION FOR WATERLINE WORK.

**G-3:** CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.

**G-4:** THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.

**G-5:** CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST. COST SHALL BE INCLUDED IN THE PRICE BID.

**G-6:** ALL HOUSE NUMBERS SHALL BE REPLACED/ REESTABLISHED THROUGHOUT PROJECT LIMITS. COST TO BE INCLUDED IN URBAN RIGHT OF WAY RESTORATION. CONTRACTOR SHALL REESTABLISH DRAINS, ROOF DRAINS AND OTHER DRAINAGE THROUGH THE CURBS IN ACCORDANCE WITH CITY OF TULSA STANDARD 758. NO NEW CURB OUTLETS SHALL BE CONSTRUCTED WITHOUT APPROVAL OF THE ENGINEER.

**G-7:** AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND/OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS.
CONTACT #: 918-596-2548

**G-8:** TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.

**G-9:** CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.

**G-10:** PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.

**DRAINAGE (D1 - D15)**

**D-1:** 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. Sewer Manholes shall MEET COT SPEC 418.

**D-2:** THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.

**D-3:** NO MASONRY STRUCTURES SHALL BE CONSTRUCTED WITHIN THE RIGHT OF WAY.

**D-4:** ADDITIONAL DEPTH IN A MANHOLE SHALL BE MEASURED FROM 6FT AS MEASURED FROM THE TOP OF RIM TO THE LOWEST FLOWLINE.

**D-5:** ALL MANHOLES SHALL BE COMPLETE IN PLACE. THIS PAY ITEM INCLUDES FRAME, COVER, CONCRETE AND ALL OTHER INCIDENTALS REQUIRED FOR PLACEMENT.

**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:** ADDITIONAL DEPTH QUANTITIES SHALL BE MEASURED AND PAID FOR ALL INLETS EXCEEDING STANDARD DEPTH. STANDARD DEPTHS ARE AS FOLLOWS:

**A)** CAST IRON CURB INLET: 3.71 VF, MEASURED FROM CENTER ELEVATION OF LOWEST CAST IRON CURB TO FLOWLINE OF OUTLET PIPE.
**B)** RECESSED CURB INLET: 3.00 VF, MEASURED FROM TOP OF SLAB TO FLOWLINE OF OUTLET PIPE.
**C)** STANDARD DROP INLET: SEE STANDARD DETAILS 770, 771, 772 AND 773 - VARIES BASED ON PIPE SIZE, MEASURED FROM LOWEST ELEVATION OF INFLOW APRON TO FLOWLINE OF OUTLET PIPE.

**D-11:** CAST IRON CURB INLET CONFIGURATION NAMING CONVENTION PROVIDED IN COT STANDARD NO. 755. SEPARATE DETAILS SHALL BE REFRENCED OR PROVIDED IN THE PLANS FOR NON-CITY-STANDARD INLETS.

STANDARD NAMING: CICI DES G(T) [W/AMH]

**G:** NUMBER OF GRATES.

**T:** LETTER(S) CORRESPONDING TO ARRANGEMENT OF CAST IRON HOODS TO BE INSTALLED UPSTREAM OF GRATES.

**W/AMH:** IF SHOWN, INLET TO BE CONSTRUCTED WITH ATTACHED ACCESS MANHOLE.

**D-12:** REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE AND MANHOLES TO BE SUPPLIED WITH AN IMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE ALLOWED.

**D-13:** THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED MOBILE CLOSED-CIRCUIT CAMERA SYSTEM.

**D-14:** NOT USED

**D-15:** NOT USED

**TRAFFIC (T1 - T7)**

**T-1:** ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER 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 SIGN-DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE REMOVAL AND REPLACEMENT, AS NEEDED AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE BID.

**T-5:** IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.

**T-6:** NOT USED

**T-7:** PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.

BEFORE YOU DIG CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA

**ROADWAY PAY ITEM NOTES**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

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| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=5' | PROJ MGR. | | 12/23 |
| | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| | RECOMMENDED: DESIGN MANAGER | | 9.25 |

APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 3 OF 28 SHEETS

PATH: Z:\2240017_MZ_5027\Dwg\PRODUCTION\
FILE: 2240017 PAY QUAN AND NOTES.dwg
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance Zone 5027 - Project No. 2036N5027Z

GENERAL CONSTRUCTION NOTES (REV 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. 2019 ODOT AS ADOPTED BY CITY OF TULSA.
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 COMMUNICATIONS, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, CITY OF TULSA-WATER AND SEWER, 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 EDITION, 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 MATERIAL IN THE FLOODPLAIN

BEFORE YOU DIG OKLAHOMA CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

REGISTERED PROFESSIONAL ENGINEER — LANCE K. WOOLSEY — 15383 — OKLAHOMA — 09-26-25

**GENERAL CONSTRUCTION NOTES**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
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| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | (A) | 9/24 |
| | FIELD MGR. | BSM | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | HAV | 9-24 |
| FILE: | DRAWING: | | |
| ATLAS PAGE NO: 178 | | | |

APPROVED

DATE: 09.24.25

SHEET 4 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\dwg\PRODUCTION\
FILE: 2240017 PAY QUAN AND NOTES.dwg
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## SUMMARY OF WATERLINE QUANTITIES BASE BID (REV 04/21/23)

| ITEM | SPEC. NO. | DESCRIPTION | PAY ITEM NOTE | UNIT | QUANTITY TOTAL | S 109TH E AVE SHT 27 | E 20TH ST SHT 28 |
|---|---|---|---|---|---|---|---|
| 1 | COT 302 | EXCAVATION AND BACKFILL, UNCLASSIFIED | 4, 5, 6, 7, 22, 36 | CY | 95 | 37.4 | 57.5 |
| 2 | COT 304 | CONSTRUCTION STAKING | | EA | 1 | | |
| 3 | COT 312(A) | 6" D.I. SLEEVE (RJ) | 2, 8, 12 | EA | 2 | 2.0 | |
| 4 | COT 317(A) | 6" GATE VALVE (RJ) | 8 | EA | 2 | 2.0 | |
| 5 | COT 317(B) | 3-WAY FIRE HYDRANT, IN PLACE | | EA | 2 | 1.0 | 1.0 |
| 6 | COT 317(C) | 6 INCH FIRE HYDRANT EXTENSION | | EA | 2 | 1.0 | 1.0 |
| 7 | COT 318(A) | VALVE BOX | 21 | EA | 2 | 2.0 | |
| 8 | COT 318(B) | VALVE BOX EXTENSION | 21 | VF | 1 | 1.0 | |
| 9 | COT 329(A) | PAVEMENT, REMOVAL AND REPLACEMENT (TYPE I AC PATCH, NON-ARTERIAL) | 36 | SY | 40 | 26.1 | 14.1 |
| 10 | COT 329(B) | PAVEMENT, REMOVAL AND REPLACEMENT (CURB AND GUTTER) | 36 | LF | 10 | | 10.0 |
| 11 | [redacted] | NOT USED | | LF | 95 | 50.0 | 45.0 |
| 12 | COT 329(D) | 4" CONCRETE SIDEWALK, REMOVAL AND REPLACEMENT | 36 | SY | 339 | 123.6 | 215.8 |
| 13 | COT 329(E) | SIDEWALK RAMP | 36 | EA | 2 | 1.0 | 1.0 |
| 14 | COT 329(F) | SODDING AND SEEDING | 23 | SY | 147 | | 147.0 |
| 15 | COT 333 | ABANDON 6" WATERLINE | 5, 9 | LF | 890 | 300.0 | 590.0 |
| 16 | COT 334 | CONSTRUCTION AS-BUILTS | 24, 25, 27 | EA | 1 | | |
| 17 | COT 335 | CONTRACTOR'S QUALITY CONTROL | | LSUM | 1 | | |
| 18 | SPECIAL | OWNER ALLOWANCE | 18 | EA | 10000 | | |
| 19 | [redacted] | NOT USED | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] |
| 20 | 303(A) | AGGREGATE BASE TYPE A | S-1, 2 | CY | 51 | 22.4 | 28.6 |
| 21 | 310(B) | SUBGRADE METHOD B | | SY | 40 | 26.1 | 14.1 |
| 22 | 325 | SEPARATOR FABRIC | S-3 | SY | 84 | 50.5 | 33.1 |
| 23 | 411(C) | SUPERPAVE, TYPE S4 (PG 64-22) (INSOLUBLE) | S-5, 6, 7, 8 | TON | 7 | 3.8 | 3.2 |
| 24 | 411(E) | SUPERPAVE, TYPE S6 (PG 64-22) | S-5, 6, 7, 8, G-1 | TON | 4 | 1.9 | 1.6 |
| | SUMMARY OF WATERLINE QUANTITIES [redacted] DIP MATERIAL OPTION 1 | | | | | | |
| 25 | COT 307 | 6" DIP, CL 51 POLYETHYLENE WRAPPED, (RJ) | 1, 2, 3, 8, 9, 11, 27, 28 | LF | 117 | 33.0 | 84.0 |
| 26 | COT 307 | 6" DIP, CL 51 POLYETHYLENE WRAPPED | 1, 2, 3, 9, 11, 27, 28 | LF | 773 | 267.0 | 506.0 |
| 27 | COT 312 | 6" D.I. 45 DEGREE BEND (RJ) | 2, 8 | EA | 8 | 4.0 | 4.0 |
| 28 | COT 312 | 6"x6"x6" D.I. TEE (RJ) | 2, 8 | EA | 2 | 1.0 | 1.0 |
| 29 | COT 315 | 3/4" WATER SERVICE CONNECTION (SHORT) | | EA | 8 | | 8.0 |
| 30 | COT 315 | 3/4" WATER SERVICE CONNECTION (LONG) | | EA | 12 | 6.0 | 6.0 |
| | SUMMARY OF WATERLINE QUANTITIES [redacted] PVC MATERIAL OPTION 2 | | | | | | |
| 31 | COT 309 | 6" PVC, AWWA C900, CLASS 200, DR-14, (RJ) | 1, 2, 3, 8, 9, 10, 27, 28 | LF | 117 | 33.0 | 84.0 |
| 32 | COT 309 | 6" PVC, AWWA C900, CLASS 200, DR-14 | 1, 2, 3, 9, 10, 27, 28 | LF | 773 | 267.0 | 506.0 |
| 33 | COT 312 | 6" PVC 45 DEGREE BEND (RJ) | 2, 8 | EA | 8 | 4.0 | 4.0 |
| 34 | COT 312 | 6"x6"x6" D.I. TEE (RJ) | 2, 8 | EA | 2 | 1.0 | 1.0 |
| 35 | COT 315 | 3/4" WATER SERVICE CONNECTION (SHORT) | | EA | 8 | | 8.0 |
| 36 | COT 315 | 3/4" WATER SERVICE CONNECTION (LONG) | | EA | 12 | 6.0 | 6.0 |
| | SUMMARY OF WATERLINE QUANTITIES [redacted] HDPE MATERIAL OPTION 3 | | | | | | |
| 37 | COT 309A | 8" HDPE, AWWA C906, PE4710, DR-11, (DIPS) | 1, 2, 3, 8, 9, 10, 19, 27, 28 | LF | 890 | 300.0 | 590.0 |
| 38 | COT 312 | 8" DI TO HDPE ADAPTOR (RJ) | | EA | 2 | 1.0 | 1.0 |
| 39 | COT 312 | 8" x 6" D.I. REDUCER (RJ) | | EA | 2 | 1.0 | 1.0 |
| 40 | COT 312A | 8" HDPE 45 DEGREE BEND (DIPS) | | EA | 8 | 4.0 | 4.0 |
| 41 | COT 312A | 8" HDPE WALL ANCHOR (DIPS)(RJ), COMPLETE IN PLACE | 26 | EA | 2 | 1.0 | 1.0 |
| 42 | COT 315 | 3/4" WATER SERVICE CONNECTION (SHORT) | 15, 16 | EA | 8 | | 8.0 |
| 43 | COT 315 | 3/4" WATER SERVICE CONNECTION (LONG) | 15, 16 | EA | 12 | 6.0 | 6.0 |

## SUMMARY OF WATER METERS

| SHEET NO. | NO. | STATION | OFFSET | SERVICE ADDRESS | NORTH COORDINATE | EAST COORDINATE | SIZE | METER CAN SIZE |
|---|---|---|---|---|---|---|---|---|
| 22 | 1 | 14+65.55 | 16.6 L | 1910 S. 109th E. St Ave | 420204.64 | 2601854.72 | | |
| 22 | 2 | 13+91.79 | 16.55 L | 1916 S. 109th E. St Ave | 420137.26 | 2601879.45 | | |
| 21 | 3 | 13+17.34 | 18.07 L | 1922 S. 109th E. St Ave | 420067.12 | 2601884.75 | | |
| 21 | 4 | 12+56.01 | 19.18 L | 1926 S. 109th E. St Ave | 420005.78 | 2601885.08 | | |
| 21 | 5 | 11+96.78 | 18.16 L | 1932 S. 109th E. St Ave | 419946.59 | 2601887.50 | | |
| 21 | 6 | 11+39.76 | 21.38 L | 1936 S. 109th E. St Ave | 419889.52 | 2601885.62 | | |
| 21 | 7 | 10+84.33 | 30.32 L | 1940 S. 109th E. St Ave | 419833.89 | 2601877.99 | | |
| 21 | 8 | 10+35.48 | 42.86; | 1944 S. 109th E. St Ave | 419784.76 | 2601866.60 | | |
| 23 | 9 | 0+81.13 | 17.42 R | 10906 E. 19th Pl. S. | 420068.11 | 2601983.90 | | |
| 23 | 10 | 0+13.83 | 47.09 L | 10907 E. 19th Pl. S. | 420131.24 | 2601915.31 | | |
| 23 | 11 | 1+45.19 | 18.26 R | 10912 E. 19th Pl. S. | 420068.57 | 2602047.97 | | |
| 23 | 12 | 1+34.24 | 17.73 L | 10913 E. 19th Pl. S. | 420104.33 | 2602036.29 | | |
| 23 | 13 | 1+98.51 | 39.35 L | 10917 E. 19th Pl. S. | 420127.25 | 2602100.11 | | |
| 23 | 14 | 1+86.65 | 29.09 R | 10918 E. 19th Pl. S. | 420058.62 | 2602089.64 | | |
| 23 | 15 | 2+44.43 | 41.05 L | 109212 E. 19th Pl. S. | 420129.88 | 26021456.98 | | |
| 23 | 16 | 2+37.85 | 43.80 R | 10922 E. 19th Pl. S. | 420044.91 | 2602141.13 | | |
| 23 | 17 | 2+69.75 | 14.13 L | 10927 E. 19th Pl. S. | 420103.46 | 2602170.93 | | |
| 23 | 18 | 2+66.30 | 21.32 R | 10928 E. 19th Pl. S. | 420067.97 | 2602169.11 | | |
| 24 | 19 | 99+81.95 | 40.34 R | 10904 E. 20th St. S. | 419759.24 | 2601891.97 | | |
| 24 | 20 | 100+16.54 | 64.03 L | 10907 E. 20th St. S. | 419864.32 | 2601924.17 | | |
| 24 | 21 | 100+28.62 | 34.96 R | 10908 E. 20th St. S. | 419765.70 | 2601938.66 | | |
| 24 | 22 | 101+38.20 | 17.54 L | 10911 E. 20th St. S. | 419820.83 | 2602046.92 | | |
| 24 | 23 | 100+67.81 | 17.06 R | 10912 E. 20th St. S. | 419784.54 | 2601977.39 | | |
| 24 | 24 | 101+36.48 | 17.08 R | 10916 E. 20th St. S. | 419786.26 | 2602046.04 | | |
| 24 | 25 | 102+00.91 | 17.83' L | 10917 E. 20th St. S. | 419822.66 | 2602109.61 | | |
| 24 | 26 | 101+89.55 | 17.29 R | 10920 E. 20th St. S. | 419787.26 | 2602099.10 | | |
| 24 | 27 | 102+68.84 | 18.14 L | 10921 E. 20th St. S. | 419824.62 | 2602177.50 | | |
| 24 | 28 | 102+74.13 | 17.0 R | 10924 E. 20th St. S. | 419789.71 | 2602183.66 | | |
| 25 | 29 | 103+35.75 | 19.0 L | 10927 E. 20th St. S. | 419827.13 | 2602244.38 | | |
| 25 | 30 | 103+37.27 | 17.05 R | 10928 E. 20th St. S. | 419791.11 | 2602246.78 | | |
| 25 | 31 | 103+86.99 | 17.0 R | 10930 E. 20th St. S. | 419792.47 | 2602296.48 | | |
| 25 | 32 | 104+95.70 | 65.17 L | 10937 E. 20th St. S. | 419877.20 | 2602403.15 | | |
| 25 | 33 | 104+52.56 | 17.30 R | 10938 E. 20th St. S. | 419793.68 | 2602362.03 | | |

## SUMMARY OF VALVES AND HYDRANTS

| WATERLINE | STATION | NORTH COORDINATE | EAST COORDINATE | TYPE | OFFSET | ELEVATION |
|---|---|---|---|---|---|---|
| A | 13+10.17 | 420060.79 | 2601920.38 | 6" GATE VALVE | 0 | 651.92 |
| A | 13+05.80 | 420056.58 | 2601927.37 | 3-WAY FHA | 24.29 R | 652.01 |
| A | 104+85.91 | 419788.82 | 2602395.52 | 3-WAY FHA | 22.97 R | 653.38 |
| A | 105+24.74 | 419796.27 | 2602434.18 | 6" GATE VALVE | 0 | 656.1 |

QUANTITIES SHOWN ARE FOR BIDDERS' INFORMATION. THEY DO NOT RELIEVE THE CONTRACTOR OF VERIFYING AND PROVIDING ALL ITEMS AS SHOWN ON THE PLANS AND SPECIFICATIONS.

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG CALL OKIE

TMUA-W 22-19

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# WATERLINE PAY QUANTITIES

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
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|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | LKW | 9/25 |
| | FIELD MGR. | RWB | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | |

APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 5 OF 28 SHEETS

PATH: Z:\2240017_MZ_5027\Dwg\PRODUCTION\
FILE: 2240017_WATERLINE_PAY_ITEMS.dwg
DATE: Dec 19, 2023 - 3:46PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## WATER PAY QUANTITY NOTES (04/21/23)

1. TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CITY OF TULSA. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH SECTION 109.3 OF THE GENERAL SPECIFICATIONS.

   A. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PLUGS WITH ADEQUATE BLOCKING OR RESTRAINTS, PLUS CORPORATION STOPS, AS DIRECTED BY CITY TESTING PERSONNEL. THEN, ONCE TESTING, CHLORINATION AND FLUSHING BY CITY PERSONNEL IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISTING SYSTEM USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION.

   B. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY CITY PERSONNEL ON MAINS WHICH ARE PHYSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY CONNECTED TO THE EXISTING SYSTEM.

   C. ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.

2. BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED IN UNIT PRICE BID FOR PIPE AND FITTINGS.

3. CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.

4. CONTRACTOR SHALL INSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN "RIGHT-OF-WAY CLEARING AND RESTORING". NO ADDITIONAL PAYMENT SHALL BE MADE.

5. ALL HYDRANTS, VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO THE SOUTH YARD AT 2317 S JACKSON AVE. PAYMENT TO BE MADE UNDER RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.

6. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS, ROOF DRAINS, AND FENCING DAMAGED IN THE ZONE OF CONSTRUCTION DURING THE COURSE OF CONSTRUCTION TO SATISFACTION OF THE PROPERTY OWNER. PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.

7. COST OF ANY TEMPORARY LIVESTOCK FENCING AND POLES SHALL BE INCLUDED IN COST OF RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE.

8. ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR FITTINGS.

   A. DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK, CLOW TUFGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASED BORES, ONLY USPIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED.

   B. POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. LOCKING GASKETS NOT PERMITTED; SHOULD RJ PIPE BE SPECIFIED ON BORE CASING IS REQUIRED.

   C. HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT.

   NO ADDITIONAL PAYMENT SHALL BE MADE.

9. ALL CUT ENDS AND WHERE SALVAGED FITTINGS HAVE BEEN REMOVED FROM ABANDONED WATER LINES LEFT IN PLACE, SHALL BE PLUGGED WITH 24-IN OF CONCRETE INSIDE THE PIPE. COST OF CONCRETE PLUGGING TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE.

10. TRACER WIRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HDPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HDPE PIPE.

11. DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONST SPEC 307.3 AND 307.4. COST WILL BE INCLUDED IN THE COST OF DUCTILE IRON PIPE.

12. ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN THE COST OF PIPE. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SLEEVES. NO ADDITIONAL PAYMENT SHALL BE MADE.

13. NOT USED.

14. CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½ -IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY. COST TO BE INCLUDED IN COST OF EXCAVATION AND BACKFILL. NO ADDITIONAL PAYMENT SHALL BE MADE.

15. WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR, AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORPORATION STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION WITH EXCEPTION OF METER CANS, RIMS AND LIDS. NO ADDITIONAL PAYMENT SHALL BE MADE. METER CANS, LIDS AND RIMS SHALL BE PAID AS A SEPARATE BID ITEM.

   A. A SHORT SERVICE SHALL BE ANY SERVICE LINE THAT IS 25-FEET OR LESS IN LENGTH. SHORT SERVICES DO NOT INCLUDE PAVEMENT REPLACEMENT.

   B. LONG SERVICE SHALL BE ANY SERVICE LINE THAT IS GREATER THAN 25-FEET UP TO 80-FEET IN LENGTH. LONG SERVICES INCLUDE PAVEMENT REPLACEMENT AND/ OR COST TO BORE.

   C. SERVICE LINES EXCEEDING THE ABOVE PARAMETERS WILL BE COMPENSATED FOR LINEAR FOOTAGE ABOVE AND BEYOND. COMPENSATION SHALL BE PAID AS "SERVICE LINES, EXTENSION", PER LF

16. SERVICE LINES ON NON-ARTERIALS SHALL BE EITHER COPPER TUBING (TYPE K SOFT ANNEALED CONFORMING TO ASTM B 88) OR PEX TUBING (VIEGA PUREFLOW PEX BLUE 5306 OR UPONOR AQUA PEX 5206 BLUE CONFORMING TO ASTM F876/F877/F2023). PEX TUBING IS NOT PERMITTED WITHIN ARTERIAL RIGHT OF WAY. WHEN CONTRACTOR ELECTS TO USE PEX TUBING:

   A. ¾-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM
   B. 1-INCH WATER SERVICE CONNECTION SHALL USE 1¼-INCH PEX TUBING MINIMUM

17. NOT USED.

18. THE "OWNER ALLOWANCE" CAN BE USED FOR VARIOUS WORK AND MISCELLANEOUS ITEMS NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING PROVISIONS:

   A. THE ALLOWANCE SHALL BE USED FOR THE COST OF MATERIALS, LABOR, INSTALLATION, OVERHEAD, AND PROFIT FOR ADDITIONAL WORK AND MISCELLANEOUS ITEMS THAT ARE NOT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND PLANS, AND NOT INCLUDED IN THE BID ITEMS OF THE CONTRACT.

   B. THE ALLOWANCE SHALL BE USED ONLY AT THE DISCRETION OF THE CITY. ANY ALLOWANCE BALANCE REMAINING AT THE COMPLETION OF THE PROJECT WILL BE CREDITED BACK TO THE CITY ON THE FINAL APPLICATION FOR PAYMENT SUBMITTED BY THE CONTRACTOR.

   C. THE CONTRACTOR SHALL PROVIDE, TO THE CITY, A WRITTEN REQUEST FOR THE USE OF ANY ALLOWANCE, WITH A SCHEDULE OF VALUES, AND ALL ASSOCIATED BACKUP INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK.

   D. THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE ONLY AFTER RECEIVING A WRITTEN ORDER FROM THE ENGINEER AND CITY AUTHORIZING SUCH WORK. PROCEEDING WITH WORK IN THE ALLOWANCE WITHOUT A WRITTEN ORDER FROM THE CITY WILL BE AT THE CONTRACTOR'S EXPENSE.

19. WHERE PLANS IDENTIFY A 22.5-DEG OR 11.25-DEG VERTICAL OR HORIZONTAL BEND, HDPE WILL BE DEFLECTED PER MANUFACTURER'S MINIMUM ALLOWABLE BEND RADIUS.

20. NOT USED.

21. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE.

22. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. STREETS, DRIVEWAYS AND ASSOCIATED ITEMS SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK.

23. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THIS PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.

24. SPOT ELEVATIONS ON THE MAIN WATER LINE RELATIVE TO FINISHED GRADE SHALL BE PROVIDED AT EACH 100-FT INTERVAL, COMPLETE WITH STATION AND OFFSET. IN ADDITION, ALL VALVES, FITTINGS, FIRE HYDRANTS (TOP OF NUT) AND OTHER MAJOR APPURTENANT ITEMS SHALL BE SHOWN WITH THE PROPER DESCRIPTION, STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM.

25. SPOT ELEVATIONS ON WATER METER CANS, VAULTS, SHALL BE SHOWN WITH THE PROPER DESCRIPTION (METER TYPE, METER SIZE, METER NUMBER, SERVICE MATERIAL, SERVICE SIZE), STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM. UPON DISCOVERY OF A LEAD OR GALVANIZED SERVICE LINE, NOTIFICATION SHALL BE MADE TO WATER DISTRIBUTION AND WORK SHALL CEASE UNTIL RELEASED AT WHICH TIME ANY AND ALL SERVICE LINES LOCATED THAT ARE LEAD OR GALVANIZED ARE TO BE REPLACED WITH APPROVED MATERIALS.

26. WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING HDPE WALL ANCHORS AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION, BACKFILLING, OR CONCRETE BLOCKING.

27. PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED THE REQUIRED CONSTRUCTION AS-BUILT RECORDS.

28. MARKER BALLS SHALL BE INSTALLED ABOVE ALL FITTINGS, BLIND FLANGES, SERVICE TAPS AND EVERY 100 FEET IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET. THE COST OF MARKER BALLS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. MARKERS SHALL BE VIVAX WATER MARKER BALLS OR EQUAL THAT WORK WITH THE VIVAX VLOC3 -PRO RECEIVER AND LOC3-10TX TRANSMITTER.

29. NOT USED.

30. AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 701 - 702, SHALL BE PAID UNDER EXCAVATION AND BACKFILL.

31. NOT USED.

32. NOT USED

33. NOT USED

34. NOT USED

35. NOT USED.

36. PAVEMENT REMOVAL AND REPLACEMENT: THIS PAY ITEM SUPERSEDES CITY OF TULSA STANDARD SPECIFICATION SECTION 329.6, WITH RESPECT TO SAW CUTTING AND DOWELS AND INCLUDES THE FOLLOWING (THESE ITEMS SHALL NOT BE PAID SEPARATELY): SAWCUTTING, DOWELS, DISPOSAL OF BROKEN PAVEMENT, TEMPORARY SURFACES, ASSOCIATED EXCAVATION, PREPARATION OF SUBGRADE, FORMS OR REINFORCING, REMOVAL OR REPLACEMENT OF GRAVEL, ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT DAMAGED BY THE CONTRACTOR, JOIN SEALER, TACK COATS OR EDGE SEALING.

## WATER CONSTRUCTION NOTES

1. THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION. /
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF TULSA ENGINEERING SERVICES DEPARTMENT.
3. EXISTING SERVICE CONNECTIONS ARE TO BE KEPT IN SERVICE UNTIL CONNECTIONS TO NEW MAIN ARE MADE. ALL SERVICE LINE RECONNECTIONS SHALL BE MADE BY THE CONTRACTOR. SERVICE RECONNECTIONS SHALL BE INSTALLED AS PER CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS.
4. MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON THE PLANS.
5. CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF THE SAME TYPE AND VARIETY OR AS NOTED ON PLANS.
6. CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
7. CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER.
8. WATER OPERATIONS SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16" AND LARGER). CONTRACTOR SHALL OPERATE ALL VALVES ON DISTRIBUTION MAINS (SMALLER THAN 16") WITH THE COORDINATION OF FIELD ENGINEERING AND WATER OPERATIONS AND IN THE PRESENCE OF A FIELD ENGINEERING INSPECTOR.
   A. ATTEMPTS WILL BE MADE WITH ASSISTANCE FROM THE CONTRACTOR TO NOTIFY ALL AFFECTED CUSTOMERS 48 HOURS IN ADVANCE, PARTICULARLY IF COMMERCIAL OR INDUSTRIAL CUSTOMERS ARE INVOLVED. PRIOR TO SHUTDOWN, FIELD ENGINEERING WILL NOTIFY WATER OPERATIONS AT 918-596-9488, GIVING AN ESTIMATED DOWNTIME. WATER OPERATIONS WILL NOTIFY THE FIRE DEPARTMENT OF ALL FIRE HYDRANTS OUT OF SERVICE AND WHEN THEY ARE BACK IN SERVICE, BY STREET ADDRESS OR INTERSECTION.
   B. WHERE COMMERCIAL, INDUSTRIAL, OR CRITICAL CUSTOMERS ARE AFFECTED, AND FOR ALL LINES 16-INCH AND LARGER IN SIZE, FIELD ENGINEERING WILL REQUEST WATER OPERATIONS TO SHUT DOWN THE MAIN. THERE WILL BE A MINIMUM OF 48-HOUR NOTICE TO WATER OPERATIONS.
9. CONTRACTOR SHALL PROVIDE AT LEAST 48 HOUR NOTICE TO ALL RESIDENTS OR BUSINESSES AFFECTED BEFORE TURNING OFF ANY WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING DOOR HANGERS ON AFFECTED HOMES AND BUSINESSES.
10. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC, NOTICE OF ANY EXCAVATION NO LATER THAN 48 HOURS OR SOONER THAN 10 DAYS PRIOR TO COMMENCEMENT OF WORK (EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS). PHONE: 1-800-522-6543.
11. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. OPEN CUT STREET CROSSINGS REQUIRE AN APPROVED TRAFFIC CONTROL PLAN WITH TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT MUTCD REQUIREMENTS.
12. ANY DAMAGE CAUSED BY THE CONTRACTOR TO ADJACENT TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE TRAFFIC ENGINEER.
13. PRIOR TO PAVEMENT SAWING AND EXCAVATION NEAR SIGNALIZED INTERSECTION, CONTRACTOR SHALL CONTACT ENGINEERING SERVICES AND TRAFFIC OPERATIONS (918-596-9766) FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.
14. CONSTRUCTION FOR ALL ENGINEERING SERVICE FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ).
15. ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS OF TULSA.
16. ANY CHANGES FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF TULSA FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.

BEFORE YOU DIG CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

TMUA-W 22-19

REGISTERED PROFESSIONAL ENGINEER — LANCE K. WOOLSEY — 15383 — OKLAHOMA — 12/31/2023

**WATERLINE PAY ITEM NOTES**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

PLAN SCALE: 1"=20'
PROFILE SCALE
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

| | | |
|---|---|---|
| DRAWN | GRA | 9/2022 |
| DESIGNED | LKW | 9/2022 |
| SURVEY | RWB | 9/2022 |
| PROJ MGR. | JH | 12/23 |
| LEAD ENGR. | CEW | 9/25 |
| FIELD MGR. | [illegible] | 9/25 |
| RECOMMENDED: DESIGN MANAGER | | |

APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 6 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 WATERLINE PAY ITEMS.dwg
DATE: Dec 19, 2023 - 3:46PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## SUMMARY OF DRIVEWAY QUANTITIES

| P&P SHT NO | STATION | APPROX LENGTH | APPROX WIDTH | EXIST SLOPE | PROP SLOPE | SIDEWALK CROSS SLOPE | AGGREGATE BASE TYPE A | 6" CONCRETE DRIVEWAY | REMOVAL OF CONCRETE DRIVEWAY |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 303(A) | 610(B) | 619(B) |
| | | FT | FT | % | % | % | CY | SY | SY |
| S 109TH E AVE | | | | | | | | | |
| 21 | 10+44 LT | 8.0 | 12.8 | 12.4 | 12.4 | 0.6 | 2.6 | 15.7 | 15.7 |
| | 10+62 LT | 5.9 | 10.9 | 14.2 | 14.2 | 1.3 | 1.9 | 11.3 | 11.3 |
| | 11+62 LT | 6.8 | 11.7 | 7.2 | 7.2 | 1.5 | 2.7 | 16.3 | 16.3 |
| | 12+22 LT | 7.6 | 26.9 | 7.9 | 7.9 | 1.8 | 4.2 | 25.0 | 25.0 |
| | 12+82 LT | 8.6 | 13.3 | 9.5 | 9.5 | 0.8 | 2.7 | 16.4 | 16.4 |
| | 13+38 LT | 8.2 | 15.3 | 8.6 | 8.6 | 2.2 | 3.1 | 18.7 | 18.7 |
| 22 | 14+08 RT | 7.1 | 18.1 | 11.6 | 11.6 | 3.4 | 3.2 | 18.9 | 18.9 |
| | 14+16 LT | 6.7 | 17.1 | 16.7 | 16.7 | 2.9 | 2.7 | 16.1 | 16.1 |
| | 14+56 RT | 7.6 | 14.6 | 9.6 | 9.6 | 1.9 | 2.6 | 15.8 | 15.8 |
| | 14+89 LT | 6.5 | 15.5 | 17.3 | 17.3 | 2.2 | 2.2 | 13.4 | 13.4 |
| | 15+18 LT | 7.1 | 20.7 | 8.7 | 8.7 | 0.3 | 2.8 | 16.7 | 16.7 |
| E 19TH PL | | | | | | | | | |
| 23 | 1+24 LT | 7.6 | 14.5 | 4.0 | 4.0 | 0.1 | 2.5 | 15.0 | 15.0 |
| | 1+70 RT | 8.2 | 15.3 | 11.5 | 11.5 | 1.1 | 2.5 | 14.9 | 14.9 |
| | 2+05 LT | 7.6 | 13.0 | 11.3 | 11.3 | 0.5 | 2.4 | 14.4 | 14.4 |
| | 2+25 RT | 6.8 | 14.5 | 8.8 | 8.8 | 1.6 | 2.3 | 13.5 | 13.5 |
| E 20TH ST | | | | | | | | | |
| 24 | 100+39 RT | 7.5 | 17.3 | 11.2 | 11.2 | 0.4 | 2.8 | 17.0 | 17.0 |
| | 100+84 LT | 7.1 | 16.3 | 8.6 | 8.6 | 1.7 | 2.7 | 15.9 | 15.9 |
| | 101+04 RT | 7.6 | 13.9 | 10.1 | 10.1 | 1.0 | 2.3 | 13.8 | 13.8 |
| | 101+56 LT | 7.5 | 14.6 | 7.1 | 7.1 | 0.2 | 2.4 | 14.2 | 14.2 |
| | 101+67 RT | 7.1 | 22.5 | 9.1 | 9.1 | 0.6 | 3.3 | 19.5 | 19.5 |
| | 101+91 LT | 7.3 | 18.1 | 9.8 | 9.8 | 1.2 | 2.8 | 17.0 | 17.0 |
| | 102+23 RT | 7.1 | 13.3 | 5.8 | 5.8 | 0.1 | 2.5 | 14.9 | 14.9 |
| | 102+49 RT | 7.1 | 13.8 | 7.6 | 7.6 | 0.9 | 2.3 | 13.7 | 13.7 |
| | 102+90 LT | 8.4 | 13.9 | 8.6 | 8.6 | 0.7 | 2.6 | 15.4 | 15.4 |
| 25 | 103+13 RT | 8.0 | 13.3 | 11.8 | 11.8 | 0.9 | 2.6 | 15.5 | 15.5 |
| | 103+59 LT | 9.1 | 14.0 | 8.1 | 8.1 | 0.9 | 2.7 | 15.9 | 15.9 |
| | 104+12 LT | 7.1 | 13.8 | 5.4 | 5.4 | 0.3 | 2.4 | 14.3 | 14.3 |
| | TOTAL | | | | | | 71.8 | 429.2 | 429.2 |

## SUMMARY OF PAVING QUANTITIES

| P&P SHT NO | STATION TO STATION | AGGREGATE BASE, TYPE A | SUBGRADE METHOD B | SEPARATOR FABRIC | FABRIC REINFORCEMENT | ASPH CONC TYPE S4 (PG 64-22 OK) (INSOLUBLE) | ASPH CONC TYPE S6 (PG 64-22 OK) | CLASS A CONCRETE | REINFORCING STEEL | 2'-2" COMB CURB & GTR (6" BARRIER) | 5" CONC SIDEWALK | TYPE 1 AC PATCH (NON-ARTERIAL) | PAVEMENT, REMOVAL AND REPLACEMENT (TYPE 1 AC PATCH NON-ARTERIAL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 303(A) | 310(B) | 325 | 409 | 411(C) | 411(C) | 509 | 511(A) | 411(C) | 610(B) | SPEC | COT 329(A) |
| | | CY | SY | SY | SY | TON | TON | CY | LB | LF | SY | CY | SY |
| S 109TH E AVE | | | | | | | | | | | | | |
| 21 | 10+00 TO 13+50 | 267.8 | 252.8 | 866.5 | 1117.1 | 125.1 | 62.5 | | | 246.0 | | 62.7 | |
| 22 | 13+00 TO 15+52 | 123.4 | 295.3 | 368.0 | 635.0 | 71.2 | 35.6 | 6.9 | 543.6 | 23.0 | 103.4 | 24.6 | |
| E 19TH PL S | | | | | | | | | | | | | |
| 23 | 0+00 TO 2+50 | 132.0 | 359.6 | 439.3 | 912.1 | 102.2 | 51.1 | 6.9 | 543.6 | 58.6 | 22.1 | 29.9 | |
| E 20TH ST S | | | | | | | | | | | | | |
| 24 | 100+00 TO 103+00 | 59.8 | 108.3 | 153.9 | 718.3 | 80.5 | 40.3 | | | 14.8 | | 108.3 | |
| 25 | 103+00 TO 105+26 | 33.6 | 77.9 | 117.0 | 511.0 | 57.2 | 28.7 | 6.9 | 543.6 | 58.0 | | 6.5 | |
| | TOTAL | 616.6 | 1093.9 | 1944.7 | 3893.5 | 436.2 | 218.2 | 20.7 | 1630.8 | 400.4 | 125.5 | 232.0 | |
| WATERLINE | | | | | | | | | | | | | |
| 27 | | 22.4 | 26.1 | 50.5 | 33.4 | 3.8 | 1.9 | | | | 123.6 | | 26.1 |
| 28 | | 28.6 | 14.1 | 33.1 | 28.0 | 3.2 | 1.6 | | | | 215.8 | | 14.1 |
| | TOTAL | 51.0 | 40.2 | 83.6 | 61.4 | 7.0 | 3.5 | 0.0 | 0.0 | 0.0 | 339.4 | | 40.2 |

## SUMMARY OF SIGN LOCATIONS

| P&P SHT NO | LOCATION | DESCRIPTION | ACTION | MUTCD TYPE | SIZE | AREA/SIGN | # OF SIGNS | TOTAL AREA | POSTS COT 608 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 1 1/2" | 1 3/4" | 2" |
| | | | | | IN | SF | EA | SF | LF | LF | LF |
| 22 | 13+55,16' RT | NEIGHBORHOOD STREET NAME BLADE (E 19TH PL) | REMOVE & REPLACE | DBL SIDED | 32x9 | 4.00 | 1 | 4.00 | 1.5 | 10.5 | 3 |
| | SAME POST | NEIGHBORHOOD STREET NAME BLADE (S 109TH E AV) | REMOVE & REPLACE | DBL SIDED | 32x9 | 4.00 | 1 | 4.00 | | | |
| 24 | 100+39 18' LT | NEIGHBORHOOD STREET NAME BLADE (E 20TH ST) | REMOVE & REPLACE | DBL SIDED | 32x9 | 4.00 | 1 | 4.00 | 1.5 | 10.5 | 3 |
| | SAME POST | NEIGHBORHOOD STREET NAME BLADE (S 109TH E AV) | REMOVE & REPLACE | DBL SIDED | 32x9 | 4.00 | 1 | 4.00 | | | |
| | | | | | | | | | | | |
| | | TOTAL | | | | 16.00 | 4 | 16 | 3 | 21 | 6 |

## SUMMARY OF REMOVAL QUANTITIES

| P&P SHT NO | STATION TO STATION | COLD MILL PAVEMENT | REMOVAL OF CONC SIDEWALK | REMOVAL OF INLET W/ HOOD/GRATE | REMOVAL OF INLET HOOD | REMOVAL OF ASPH PAVT | REMOVAL OF CURB/GUTTER |
|---|---|---|---|---|---|---|---|
| | | 412 | 619(B) | 619(B) | 619(B) | 619(B) | 619(B) |
| | | SY | SY | EA | EA | SY | LF |
| S 109TH E AVE | | | | | | | |
| 15 | 10+00 TO 13+50 | 1117.1 | 30.9 | | | 22.7 | 252.0 |
| 15 | 13+00 TO 15+52 | 635.0 | | | 1 | 22.7 | 33.0 |
| E 19TH PL S | | | | | | | |
| 16 | 0+00 TO 2+50 | 912.1 | 22.1 | | 2 | | 78.6 |
| E 20TH ST S | | | | | | | |
| 17 | 100+00 TO 103+00 | 718.3 | | | | | 14.8 |
| 17 | 103+00 TO 105+26 | 511.0 | | 1 | | 22.7 | 70.0 |
| | TOTAL | 3893.5 | 53.0 | 1.0 | 3.0 | 68.1 | 448.4 |
| WATERLINE | | | | | | | |
| 27 | 10+00 TO 13+50 | | 66.7 | | | | |
| 28 | 100+00 TO 105+50 | | 215.8 | | | | |
| | TOTAL | 0.0 | 282.5 | 0.0 | 0.0 | 0.0 | 0.0 |

## SUMMARY OF EROSION CONTROL QUANTITIES

| P&P SHT NO | STATION TO STATION | TEMPORARY FIBER LOG | SOLID SLAB SODDING |
|---|---|---|---|
| | | 221(K) | 230(A) |
| | | LF | SY |
| S 109TH E AVE | | | |
| 21 | 10+00 TO 13+50 | | 71.7 |
| 22 | 13+00 TO 15+52 | 12 | 56.7 |
| E 19TH PL S | | | |
| 23 | 0+00 TO 2+50 | 24 | 6.2 |
| E 20TH ST S | | | |
| 24 | 100+00 TO 103+00 | | 6.2 |
| 25 | 103+00 TO 105+26 | 12 | 3.1 |
| 28 | 100+00 TO105+26 (WATERLINE) | | 147.0 |
| | TOTAL | 48 | 290.9 |

## SUMMARY OF EARTHWORK QUANTITIES

| P&P SHT NO | STATION TO STATION | UNCLASSIFIED EXCAVATION |
|---|---|---|
| | | 202(A) |
| | | CY |
| S 109TH E AVE | | |
| 21 | 10+00 TO 13+50 | 188.2 |
| 22 | 13+00 TO 15+52 | 99.7 |
| E 19TH PL S | | |
| 23 | 0+00 TO 2+50 | 96.5 |
| E 20TH ST S | | |
| 24 | 100+00 TO 103+00 | 27.1 |
| 25 | 103+00 TO 105+26 | 19.4 |
| | | |
| WATERLINE | | |
| 27 | | 37.4 |
| 28 | | 57.5 |
| | TOTAL | 524.8 |

## SUMMARY OF TRAFFIC CONTROL QUANTITIES

| P&P SHT NO | STATION TO STATION | CONSTRUCTION SIGNS 0 TO 6.25 SF | CONSTRUCTION SIGNS 6.25 TO 15.99 SF | CONSTRUCTION SIGNS 16.00 TO 32.99 SF | BARRICADES (TYP III) | WARNING LIGHTS (TYPE A) | WARNING LIGHTS (TYPE C) | DRUMS | TUBE CHANNELIZER |
|---|---|---|---|---|---|---|---|---|---|
| | | 880(B) | 880(B) | 880(B) | 880(C) | 880(E) | 880(E) | 880(F) | 880(G) |
| | | SD | SD | SD | SD | SD | SD | SD | SD |
| S 109TH E AVE | | | | | | | | | |
| 21 | 10+00 TO 13+50 | 45 | 90 | 45 | 45 | 90 | 150 | 315 | 315 |
| 22 | 13+00 TO 15+52 | 45 | 90 | | 45 | 90 | 163 | 225 | 225 |
| E 19TH PL S | | | | | | | | | |
| 23 | 0+00 TO 2+50 | 30 | 60 | 30 | 30 | 60 | 75 | 150 | 150 |
| E 20TH ST S | | | | | | | | | |
| 24 | 100+00 TO 103+00 | 45 | 90 | | 45 | 90 | 135 | 270 | 270 |
| 25 | 103+00 TO 105+26 | 45 | 90 | 45 | 45 | 90 | 100 | 200 | 200 |
| | | | | | | | | | |
| | TOTAL | 210 | 420 | 120 | 210 | 420 | 623 | 1160 | 1160 |

## SUMMARY OF DRAINAGE QUANTITIES

| P&P SHT NO | STATION TO STATION | 6' DIA MANHOLE, COMPLETE IN PLACE | INLET, CICI DES 2, COMPLETE IN PLACE | REPLACEMENT OF INLET FRAME & GRATE | REPLACEMENT OF CAST IRON HOOD | 15" REINF CONC PIPE ROUND, COMPLETE IN PLACE |
|---|---|---|---|---|---|---|
| | | 611(A) | 611(G) | 611(I) | 611(M) | 613(A) |
| | | EA | EA | EA | EA | LF |
| S 109TH E AVE | | | | | | |
| 21 | 10+00 TO 13+50 | 1 | 1 | 1 | 1 | 336 |
| 22 | 13+00 TO 15+52 | | | 2 | 2 | |
| E 19TH PL S | | | | | | |
| 23 | 0+00 TO 2+50 | | | 4 | 4 | |
| E 20TH ST S | | | | | | |
| 24 | 100+00 TO 103+00 | | | | | |
| 25 | 103+00 TO 105+26 | | 1 | | | |
| | | | | | | |
| | TOTAL | 1 | 2 | 7 | 7 | 336 |

CAUTION

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# SUMMARY OF QUANTITIES

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective

wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | | |

APPROVED

FILE: DRAWING: DATE: 9.26.25

ATLAS PAGE NO: 178 SHEET 7 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 SUMMARIES.dwg
DATE: Dec 19, 2023 - 3:47PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N8087Z

# STORM WATER MANAGEMENT PLAN

## SITE DESCRIPTION

PROJECT LIMITS: MZ 5027; S 109TH E AVE FROM E 19TH ST S TO E 20TH ST S, E 19TH PL S AND E 20TH ST S FROM S 109TH E AVE TO S 111TH E AVE (SE 1/4, SE 1/4, 07-19-14)

PROJECT DESCRIPTION: PAVEMWNT MILL AND OVERLAY, APPROXIMATELY 25% FULL DEPTH RECONSTRUCTION

SOIL TYPE: _____

TOTAL AREA OF THE CONSTRUCTION SITE: 0.9 AC

ESTIMATED AREA TO BE DISTURBED: 0.9 AC

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE) 0 AC

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.9 AC

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.9 AC

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.85

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36° 08' 04" N; 95° 51'15" W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: MINGO CREEK

SENSITIVE WATERS OR WATERSHEDS: YES [ ] NO [X]

303 (d) IMPAIRED WATERS: YES [ ] NO [X]

IF YES, LIST IMPAIRMENT: _____

LOCATED IN A TMDL: YES [ ] NO [X]

LAKE THUNDERBIRD TMDL: YES [ ] NO [X]

MS4 ENTITY YES [X] 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.

REVISED 10-15-2020

## EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

_____ TEMPORARY SEEDING
__X__ 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
_____ TEMPORARY SILT FENCE
_____ 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
__X__ TEMPORARY SEDIMENT REMOVAL
_____ RIP RAP
__X__ INLET SEDIMENT FILTER
_____ TEMPORARY BRUSH SEDIMENT BARRIERS
_____ SANDBAG BERMS
_____ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

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

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

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

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

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

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

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

103.05 BONDING REQUIREMENTS
104.10 FINAL CLEANING UP
104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK
104.13 ENVIRONMENTAL PROTECTION
106.08 STORAGE AND HANDLING OF MATERIAL
107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
107.20 STORM WATER MANAGEMENT
220 MANAGEMENT OF EROSION, SEDIMENTATION, AND STORM WATER POLLUTION PREVENTION
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, SEPTEMBER 13, 2022.

CAUTION
NOTICE TO CONTRACTOR
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BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

**STORMWATER MANAGEMENT PLAN**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

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tulsa, oklahoma 74103
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| PLAN SCALE: | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: | LEAD ENGR. | | 9/26 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: | RECOMMENDED: DESIGN MANAGER | | |

APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 8 OF 28 SHEETS

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N8027Z

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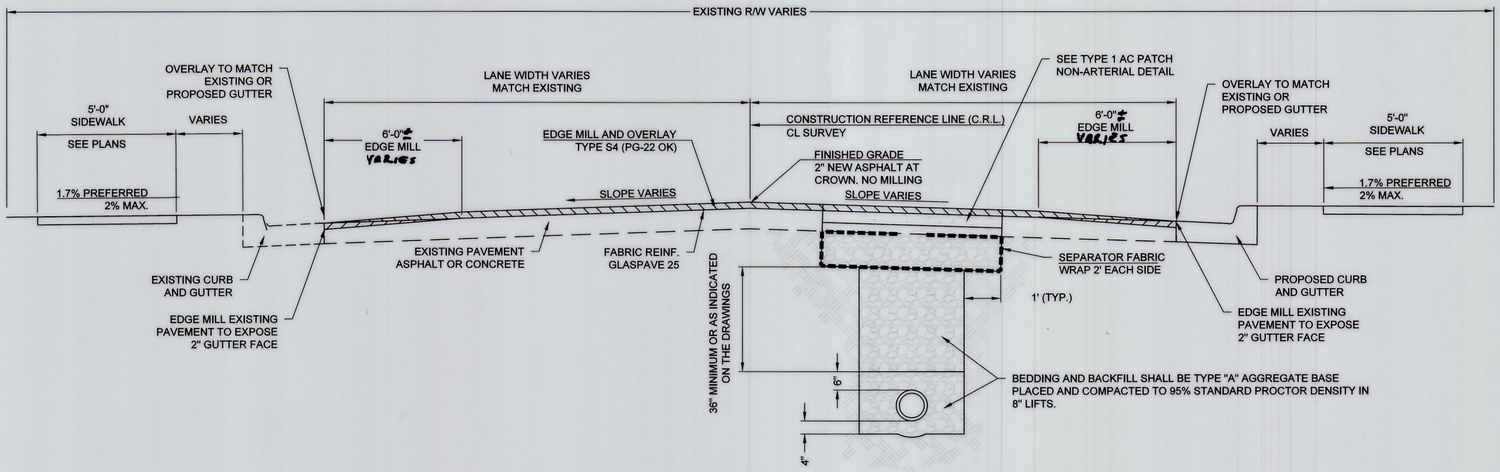
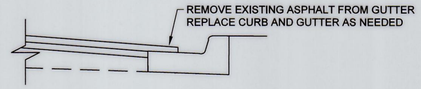
FILE: 2036N5027Z_SWMP.dwg
DATE: Nov 07, 2025 - 8:39AM




TYPICAL SECTION EDGE & MILL OVERLAY - ENTIRE PROJECT
SCALE: NTS



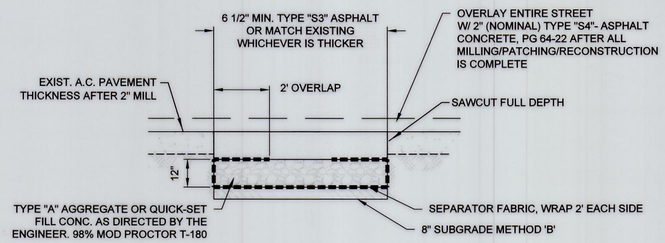

CURB DETAIL
SCALE: NTS

NOTES:

1. WHERE THE ASPHALT OVERLAY MATCHES THE EXISTING ASPHALT AT THE PROJECT LIMITS, THE CONTRACTOR SHALL SEAL BETWEEN THE NEW AC PAVEMENT AND EXISTING AC PAVEMENT WITH HOT RUBBERIZED ASPHALT.

2. SLOPE VARIES PER EXISTING CROSS SLOPES.
ASPHALT OVERLAY TO MATCH ELEVATIONS SHOWN ON P&P SHEETS 16-20.

3. 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.




TYPE I AC PATCH NON-ARTERIAL
SCALE: NTS

CAUTION
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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
11 November 2025

**TYPICAL SECTIONS**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

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| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=5' | PROJ MGR. | | 12/23 |
| | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| | RECOMMENDED: DESIGN MANAGER | HBV | 9.26 |

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FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 9 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
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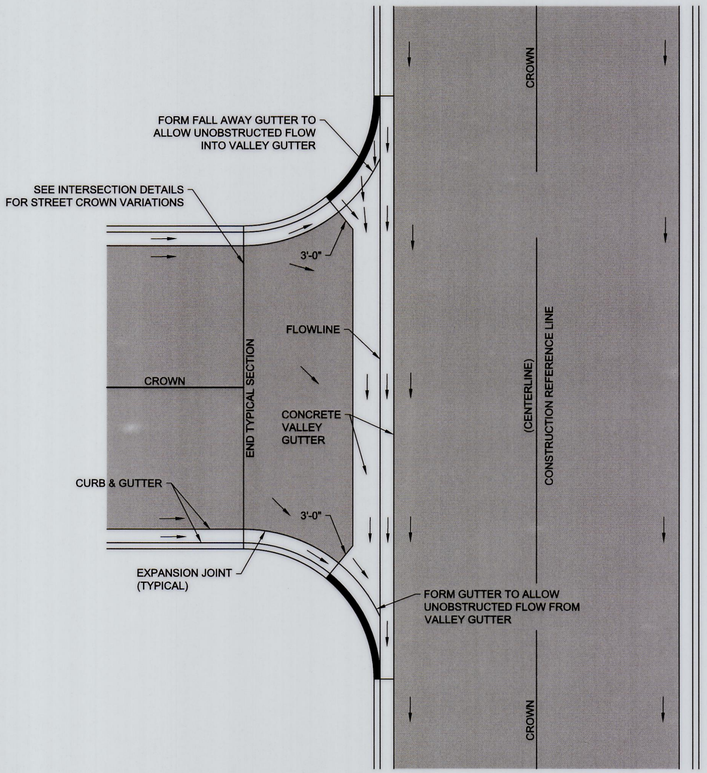
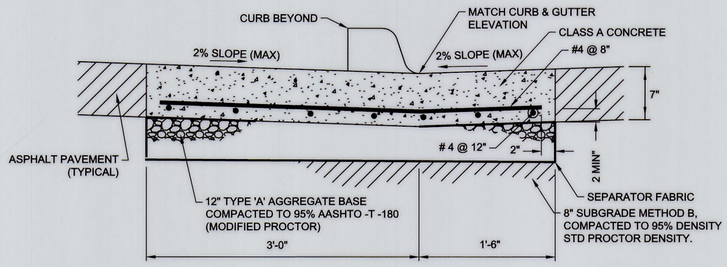
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN

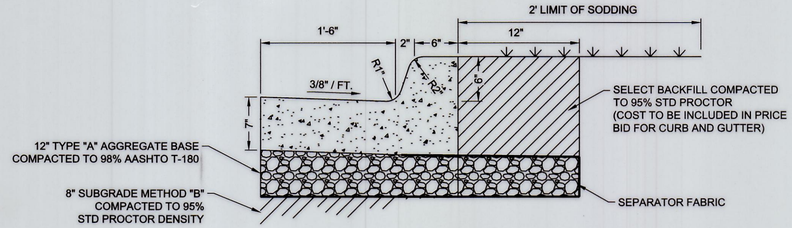
NOTE:
AT INTERSECTIONS OF E 19TH PL S AND S 109TH E AVE ,
E 19TH ST AND S 109TH E AVE, E 20TH ST AND S 11TH E AVE.



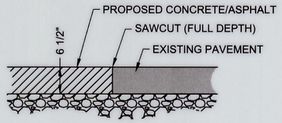

SECTION

1. CONCRETE SHALL BE CLASS A AND INCLUDE REINFORCING IN PRICE BID FOR CONCRETE
2. EXPANSION JOINTS ARE REQUIRED AT INTERSECTION WITH CURB AND GUTTER.
3. PAID FOR UNDER 509(B) CLASS A CONC. AND 511 (A) REINFORCING STEEL

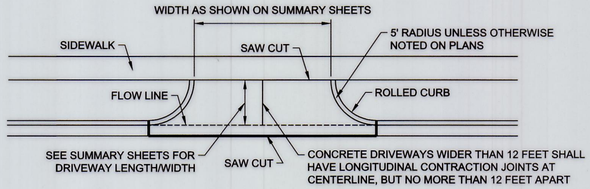
## CONCRETE VALLEY GUTTER DETAIL
SCALE: NONE



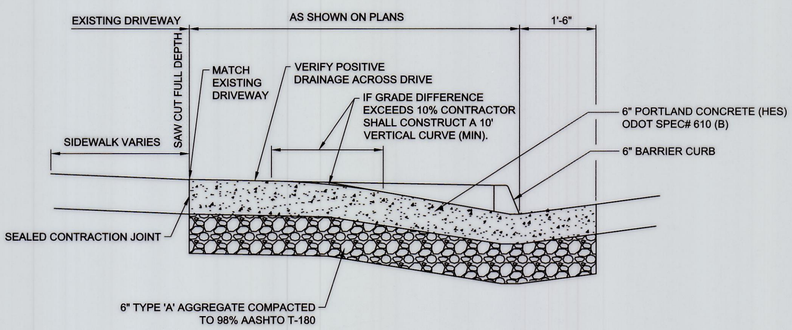

## 6" BARRIER CURB & GUTTER
SCALE: 1"=1'




## BUTT JOINT DETAIL
SCALE: 1"=1'



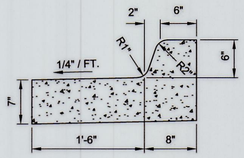

PLAN



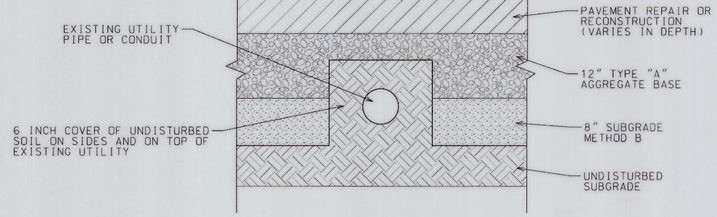

*DRIVE SHALL RISE TO CURB HEIGHT (6" MIN.)

PROFILE

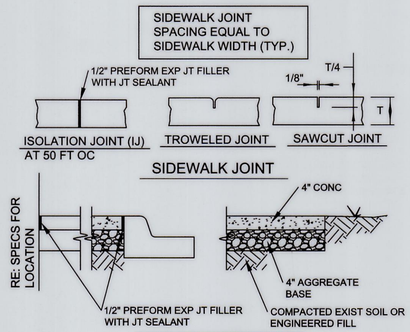
## CONCRETE DRIVEWAY DETAIL
SCALE: NTS




## 6" BARRIER CURB ABD GUTTER (FALL AWAY)
SCALE: 1"=1'




## TYPICAL SECTION
PROTECT IN PLACE EXISTING UTILITY LINE
N.T.S.




## SIDEWALK
SCALE: NTS

CAUTION
NOTICE TO CONTRACTOR

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REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# TYPICAL SECTION DETAILS

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

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| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | | |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/26 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | 9.25 |
| FILE: | DRAWING: | | |
| ATLAS PAGE NO: 178 | | | |

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DATE: 09.26.25

SHEET 10 OF 28 SHEETS

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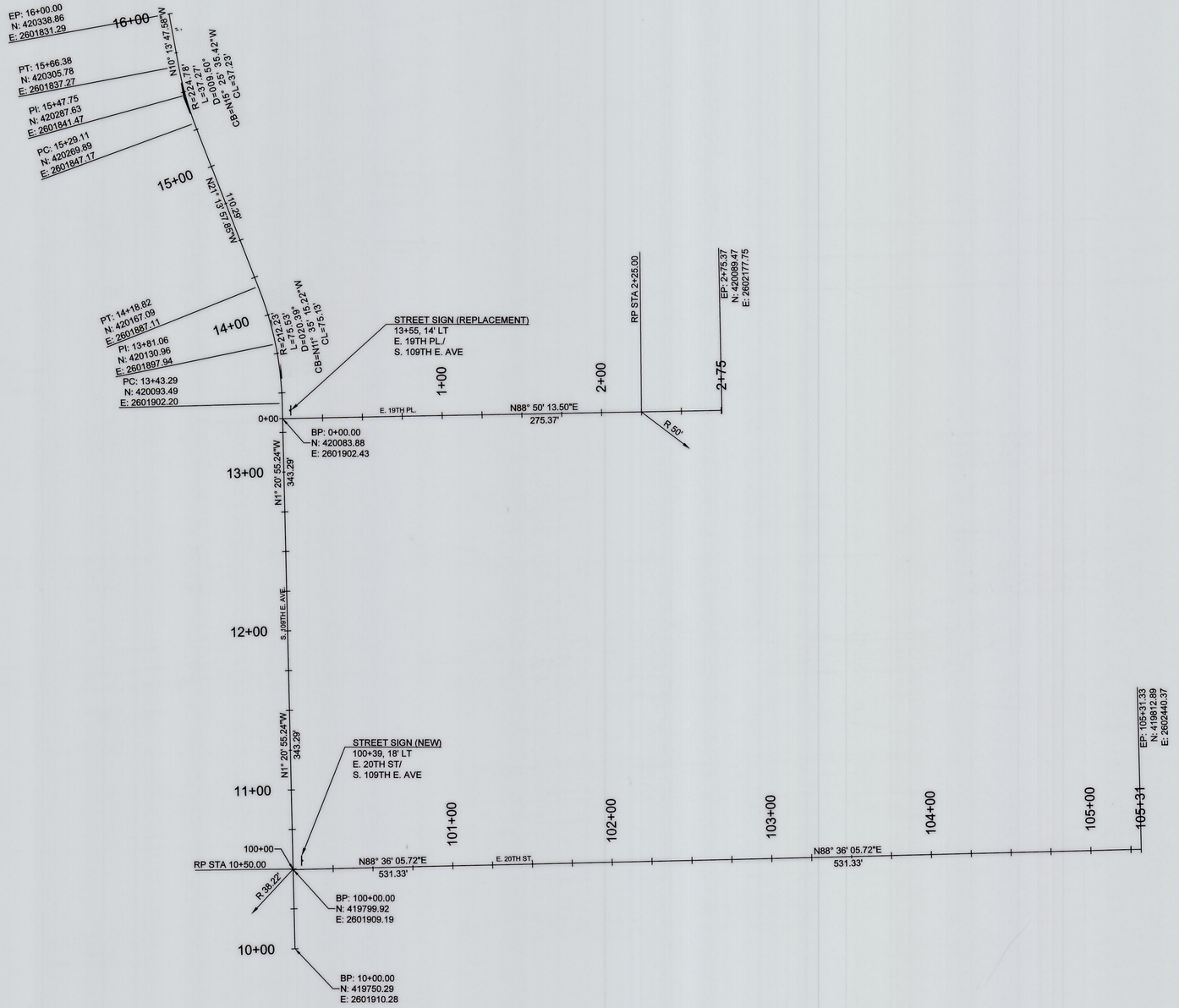
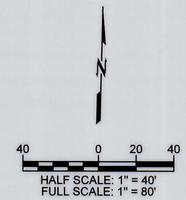
DATE: Mar 05, 2024 - 4:12PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




## BENCHMARKS:

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

CAUTION

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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA

# GEOMETRICS

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

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| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: | LEAD ENGR. | LKW | 9/25 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: | RECOMMENDED: DESIGN MANAGER | HAS | 9.25 |

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FILE: DRAWING: DATE: 09.24.25

ATLAS PAGE NO: 178 SHEET 11 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 GEOMETRIC.dwg
DATE: Nov 29, 2023 - 8:44AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## Notes

1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.

R 14 E

East 11th Street South

South Mingo Road — T 19 N — South Garnett Road

East 21st Street South

Location Map

### Legend

| | |
|---|---|
| BM | BENCHMARK |
| CO | CLEAN OUT |
| DGDI | DOUBLE GRATE DROP INLET |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| GM | GAS METER |
| GLT | GROUND LIGHT |
| LP | LIGHT POLE |
| RCP | REINFORCED CONCRETE PIPE |
| SD | STORM DRAIN LINE |
| SDMH | STORM DRAIN MANHOLE |
| SS | SANITARY SEWER LINE |
| SSMH | SANITARY SEWER MANHOLE |
| TG | TOP OF GRATE |
| TPED | TELEPHONE PEDESTAL |
| TR | TOP OF RIM |
| UG | UNDERGROUND GAS |
| VCP | VITRIFIED CLAY PIPE |
| WL | WATER LINE |
| WM | WATER METER |
| WV | WATER VALVE |

# Topographic Survey
of
# CoT MZ 5027
## Magic Circle Addition
## City of Tulsa, Tulsa County, Oklahoma

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

### Surveyor's Certification

WE, BENNETT SURVEYING, INC., HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY 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 20TH DAY OF SEPTEMBER, 2022.

REGISTERED PROFESSIONAL LAND SURVEYOR — CLIFF BENNETT 1815 — OKLAHOMA

BY: Cliff Bennett
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815


BENNETT SURVEYING, INC.
P.O. BOX 868, CHOUTEAU, OK 74337
PHONE: (918) 935-0350 FAX: (918) 476-7485
C.A. NO.: 4502 EXP. DATE: 6/30/2024


BEFORE YOU DIG — CALL OKIE

### CAUTION

NOTICE TO CONTRACTOR

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### Benchmark Notes

| | | | | | |
|---|---|---|---|---|---|
| 3/8" Iron Pin | P-K Nail | P-K Nail | P-K Nail | Chiseled "X" | Chiseled "X" |
| ELEV=650.98 | ELEV=655.72 | ELEV=657.17 | ELEV=660.26 | ELEV=661.73 | ELEV=660.13 |
| N=420358.663 | N=420083.988 | N=420090.696 | N=419799.793 | N=419819.251 | N=419796.244 |
| E=2601839.286 | E=2601905.299 | E=2602128.572 | E=2601911.525 | E=2602149.476 | E=2602398.892 |

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| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
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| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | | 9.25 |

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FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 12 OF 28 SHEETS

**SURVEY SHEET 1**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**


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PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
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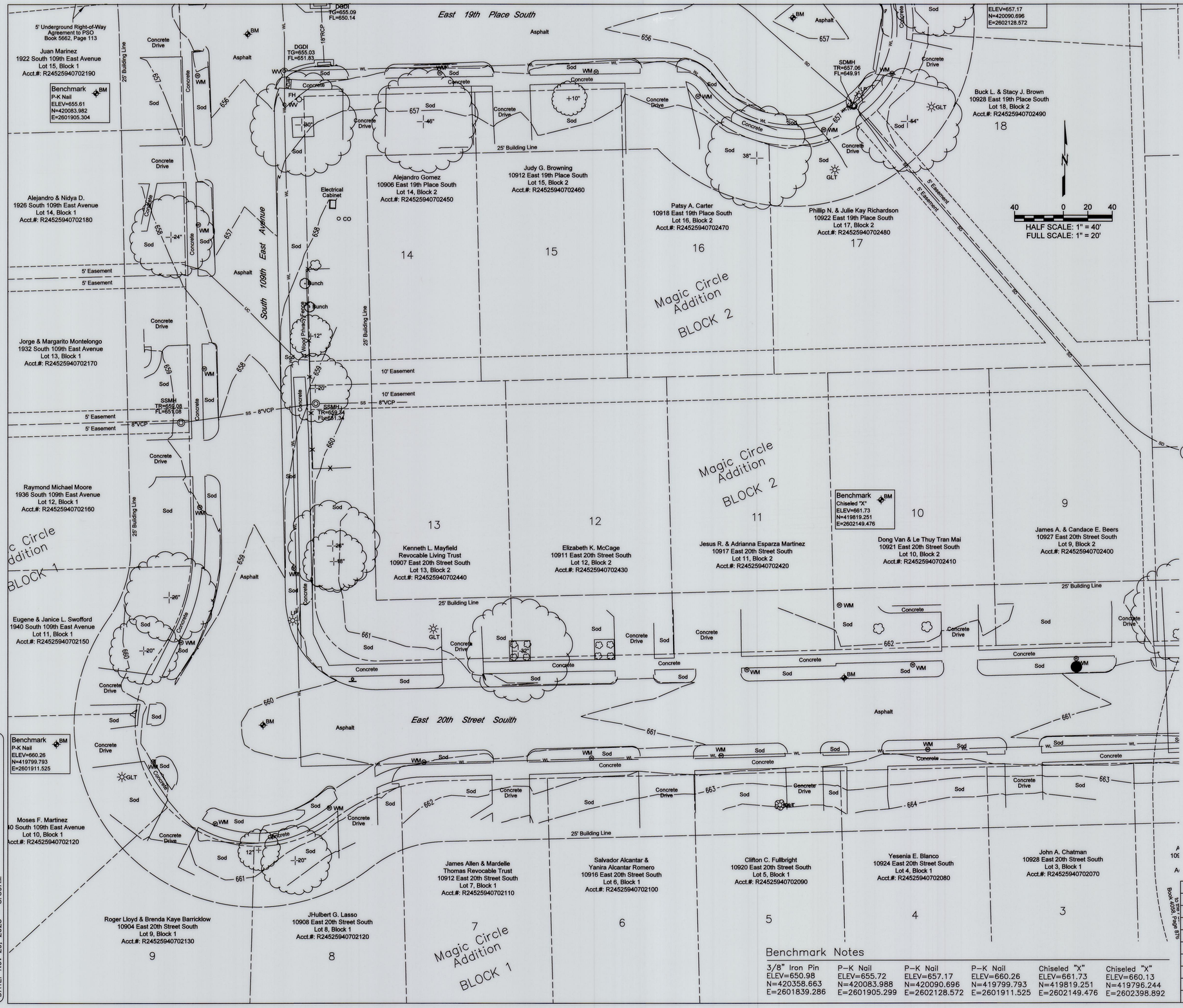
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




## Benchmark Notes

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|---|---|---|---|---|---|
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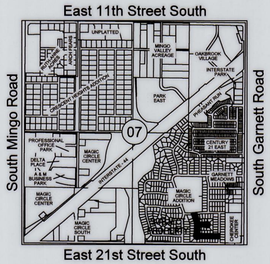
| E=2601839.286 | E=2601905.299 | E=2602128.572 | E=2601911.525 | E=2602149.476 | E=2602398.892 |

## Notes

1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.

R 14 E




Location Map

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

| Legend | |
|---|---|
| BM | BENCHMARK |
| CO | CLEAN OUT |
| DGDI | DOUBLE GRATE DROP INLET |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| GM | GAS METER |
| GLT | GROUND LIGHT |
| LP | LIGHT POLE |
| RCP | REINFORCED CONCRETE PIPE |
| SD | STORM DRAIN LINE |
| SDMH | STORM DRAIN MANHOLE |
| SS | SANITARY SEWER LINE |
| SSMH | SANITARY SEWER MANHOLE |
| TG | TOP OF GRATE |
| TPED | TELEPHONE PEDESTAL |
| TR | TOP OF RIM |
| UG | UNDERGROUND GAS |
| VCP | VITRIFIED CLAY PIPE |
| WL | WATER LINE |
| WM | WATER METER |
| WV | WATER VALVE |

# Topographic Survey
of
# CoT MZ 5027
## Magic Circle Addition
## City of Tulsa, Tulsa County, Oklahoma

### Surveyor's Certification

WE, BENNETT SURVEYING, INC., HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY 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 20TH DAY OF SEPTEMBER, 2022.

REGISTERED PROFESSIONAL LAND SURVEYOR — CLIFF BENNETT 1815 — OKLAHOMA — 9-20-25

BY: Cliff Bennett
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815


BENNETT SURVEYING, INC.
P.O. BOX 848, CHOUTEAU, OK 74337
PHONE: (918) 835-0350 FAX: (918) 476-7485
C.A. NO.: 4502 EXP. DATE: 6/30/2024


BEFORE YOU DIG CALL OKIE

### CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

**SURVEY SHEET 2**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**


wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design


| REVISION | BY | DATE |
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|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | CB | 9/24 |
| | FIELD MGR. | TBH | 09/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | HAI | 9.25 |

APPROVED

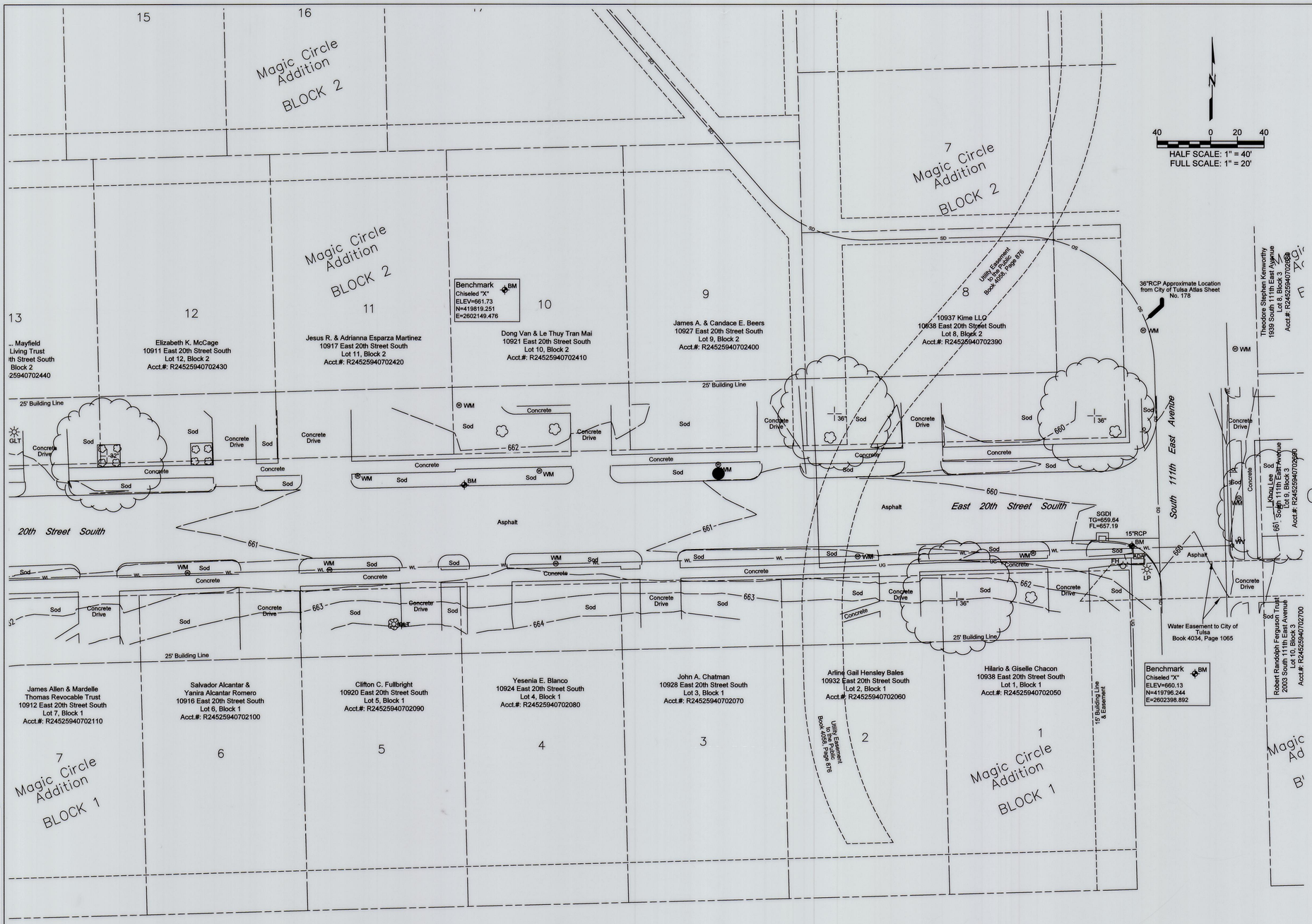
FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 13 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 SURVEY.dwg
DATE: Nov 29, 2023 – 8:39AM

Book 4058 Page 878

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

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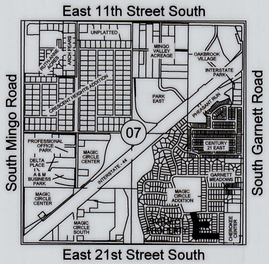


## Legend

| | |
|---|---|
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| FL | FLOW LINE |
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BY: Cliff Bennett
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### Benchmark Notes

| | | | | | |
|---|---|---|---|---|---|
| 3/8" Iron Pin | P-K Nail | P-K Nail | P-K Nail | Chiseled "X" | Chiseled "X" |
| ELEV=650.98 | ELEV=655.72 | ELEV=657.17 | ELEV=660.26 | ELEV=661.73 | ELEV=660.13 |
| N=420358.663 | N=420083.988 | N=420090.696 | N=419799.793 | N=419819.251 | N=419796.244 |
| E=2601839.286 | E=2601905.299 | E=2602128.572 | E=2601911.525 | E=2602149.476 | E=2602398.892 |

**SURVEY SHEET 3**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
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|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | HAS | 9-25 |

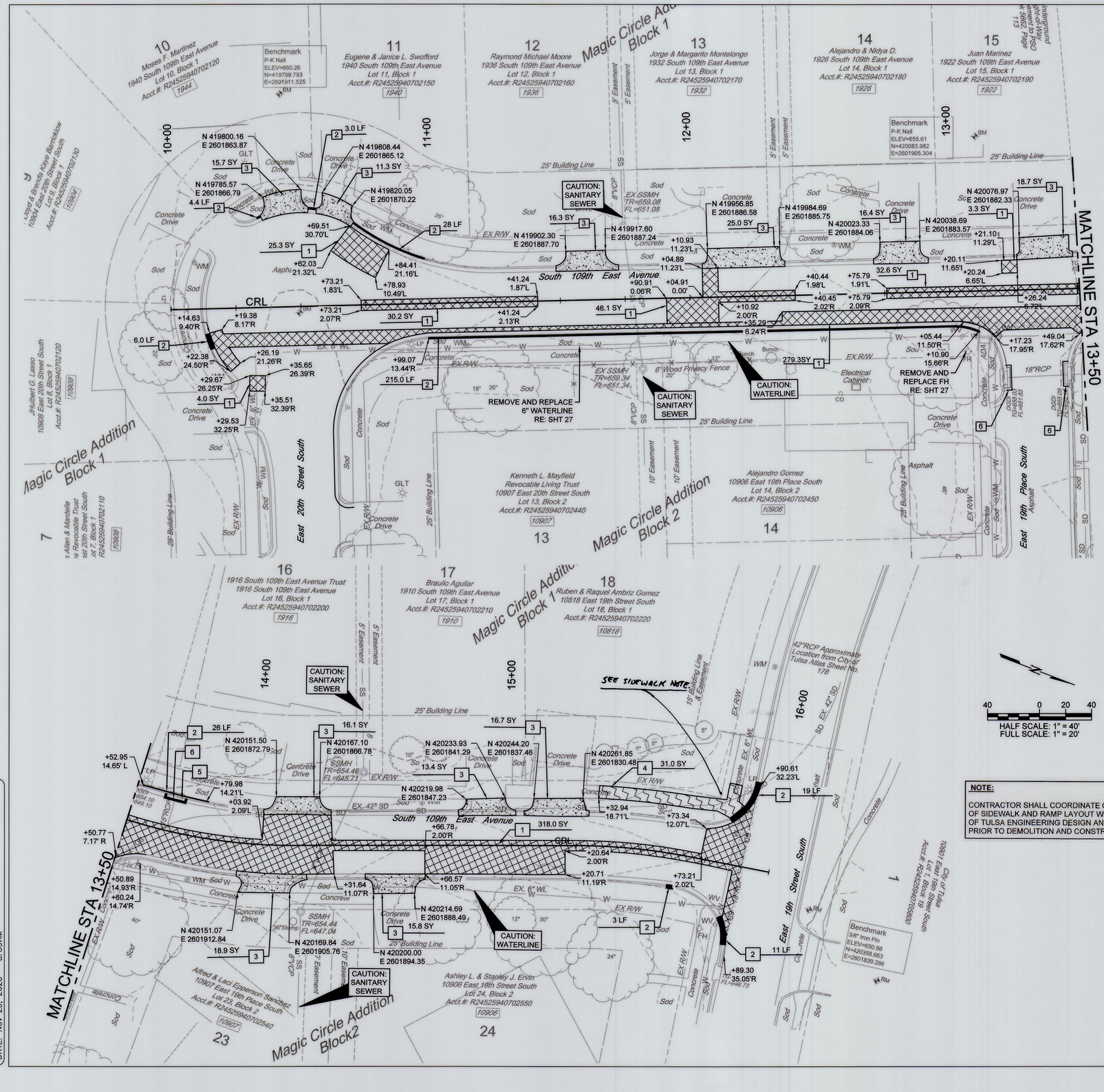
APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 14 OF 28 SHEETS

PATH: Z:\224017 MZ 5027\Dwg\PRODUCTION\
FILE: 224017 SURVEY.dwg
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




## GENERAL DEMOLITION NOTES

1. ALL CONCRETE AND ASPHALT SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
4. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
5. ALL EXISTING POWER POLES, POWER LINES AND GUY LINES TO REMAIN.
6. ALL EXISTING FIRE HYDRANTS, WATER METERS AND WATER VALVES TO REMAIN, UNLESS NOTED OTHERWISE.
7. EROSION CONTROL TO BE INSTALLED AND MAINTAINED PER CITY OF TULSA SPECIFICATIONS AND THE STORMWATER MANAGEMENT PLAN PRIOR TO BEGINNING DEMOLITION.
8. MILL AND OVERLAY ALL REMAINING PAVEMENT AFTER PATCHING

WATERLINE DEMOLITION AND REPLACEMENT RE: SHEETS 27 AND 28.

REMOVE DRIVEWAYS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES

COST TO REMOVE, RESET OR REPLACE MAILBOXES IS INCLUDED IN PRICE BID FOR "URBAN ROW RESTORATION"

COST TO REMOVE OTHER ITEMS, NOTED OR OTHERWISE, WHICH MAY ARISE SHALL BE INCLUDED IN PRICE BID FOR "REMOVAL OF STRUCTURES AND OBSTRUCTIONS"

## LEGEND

1. REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON ART: RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. DRIVEWAY REPLACEMENT RE: SHEET 10
4. SIDEWALK REPLACEMENT RE: SHEET 10
5. TEMPORARY FIBER LOG INLET PROTECTION
6. REPLACE CONCRETE HOOD AND GRATES
7. VALLEY GUTTER RE: SHEET 10

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |




## SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION

1. DRIVEWAY REPLACEMENT
2. PAVEMENT PATCHING
3. MILL
4. VALLEY GUTTER AND CURB AND GUTTER
5. OVERLAY

**NOTE:**

CONTRACTOR SHALL COORDINATE ORIENTATION OF SIDEWALK AND RAMP LAYOUT WITH THE CITY OF TULSA ENGINEERING DESIGN AND FIELD ENGINEER PRIOR TO DEMOLITION AND CONSTRUCTION.

BEFORE YOU DIG OKLAHOMA CALL OKIE

**CAUTION**

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REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA 12-31-2025

# DEMOLITION SHEET 1

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
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|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | LKW | 9/24 |
| | FIELD MGR. | BM | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | HAS | 9-25 |

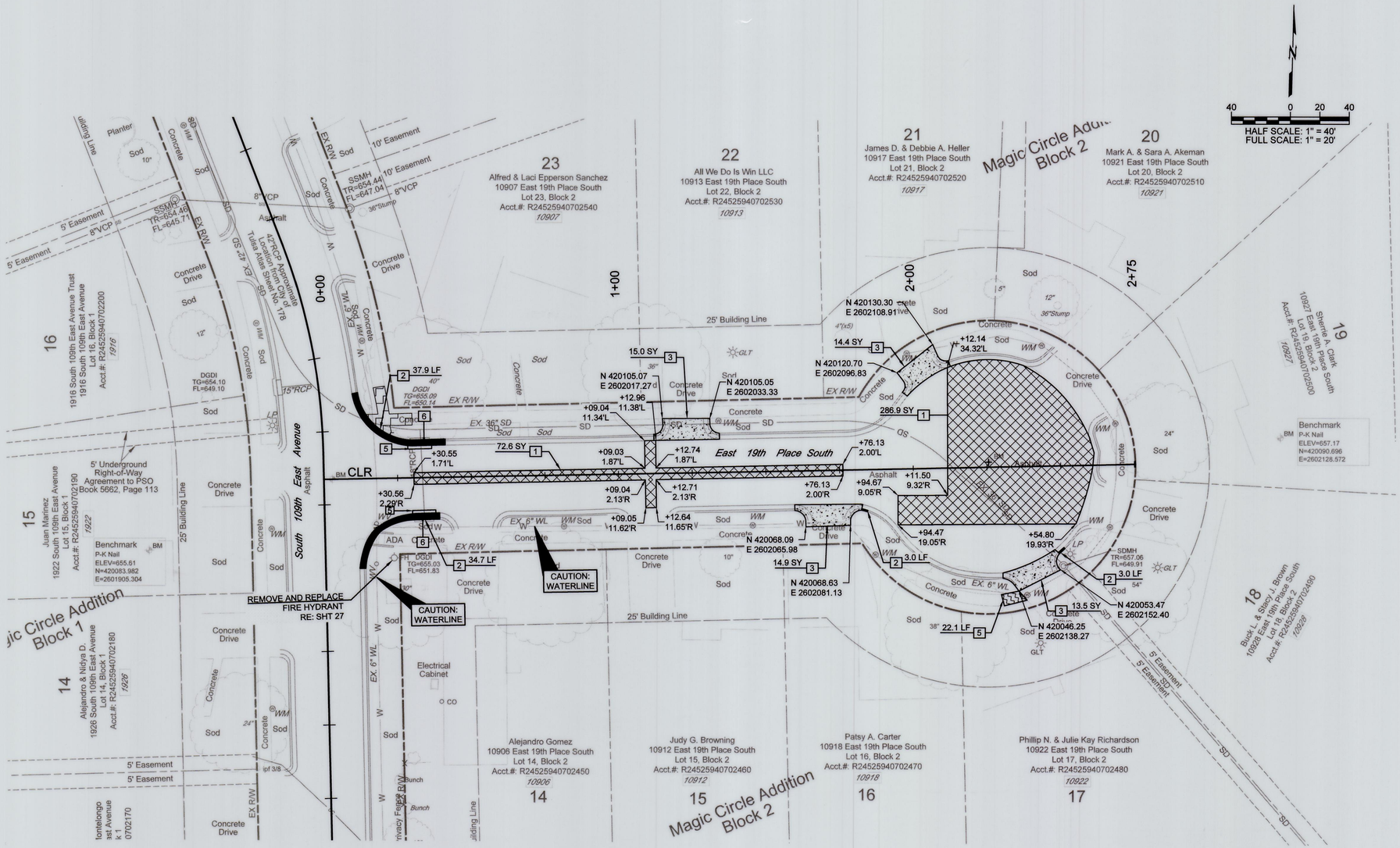
APPROVED

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 15 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 DEMOLITION.dwg
DATE: Nov 29, 2023 - 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

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8. MILL AND OVERLAY ALL REMAINING PAVEMENT AFTER PATCHING

WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

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## LEGEND

1. REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART. RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. DRIVEWAY REPLACEMENT RE: SHEET 10
4. SIDEWALK REPLACEMENT RE: SHEET 10
5. TEMPORARY FIBER LOG INLET PROTECTION
6. REPLACE CONCRETE HOOD AND GRATES

## Benchmark

| | | |
|---|---|---|
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| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

BEFORE YOU DIG CALL OKIE

## CAUTION

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## SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION

1. DRIVEWAY REPLACEMENT
2. PAVEMENT PATCHING
3. MILL
4. VALLEY GUTTER AND CURB AND GUTTER
5. OVERLAY

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
09.24.25

| REVISION | BY | DATE |
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# DEMOLITION SHEET 2

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 wallace.design

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/6/25 |
| VERTICAL: 1"=5' | FIELD MGR. | | 9/24/25 |
| | RECOMMENDED: DESIGN MANAGER | HAS | 9.25 |

APPROVED

FILE: DRAWING: DATE: 09.24.25

ATLAS PAGE NO: 178 SHEET 16 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 DEMOLITION E-W.dwg
DATE: Nov 29, 2023 - 8:39AM

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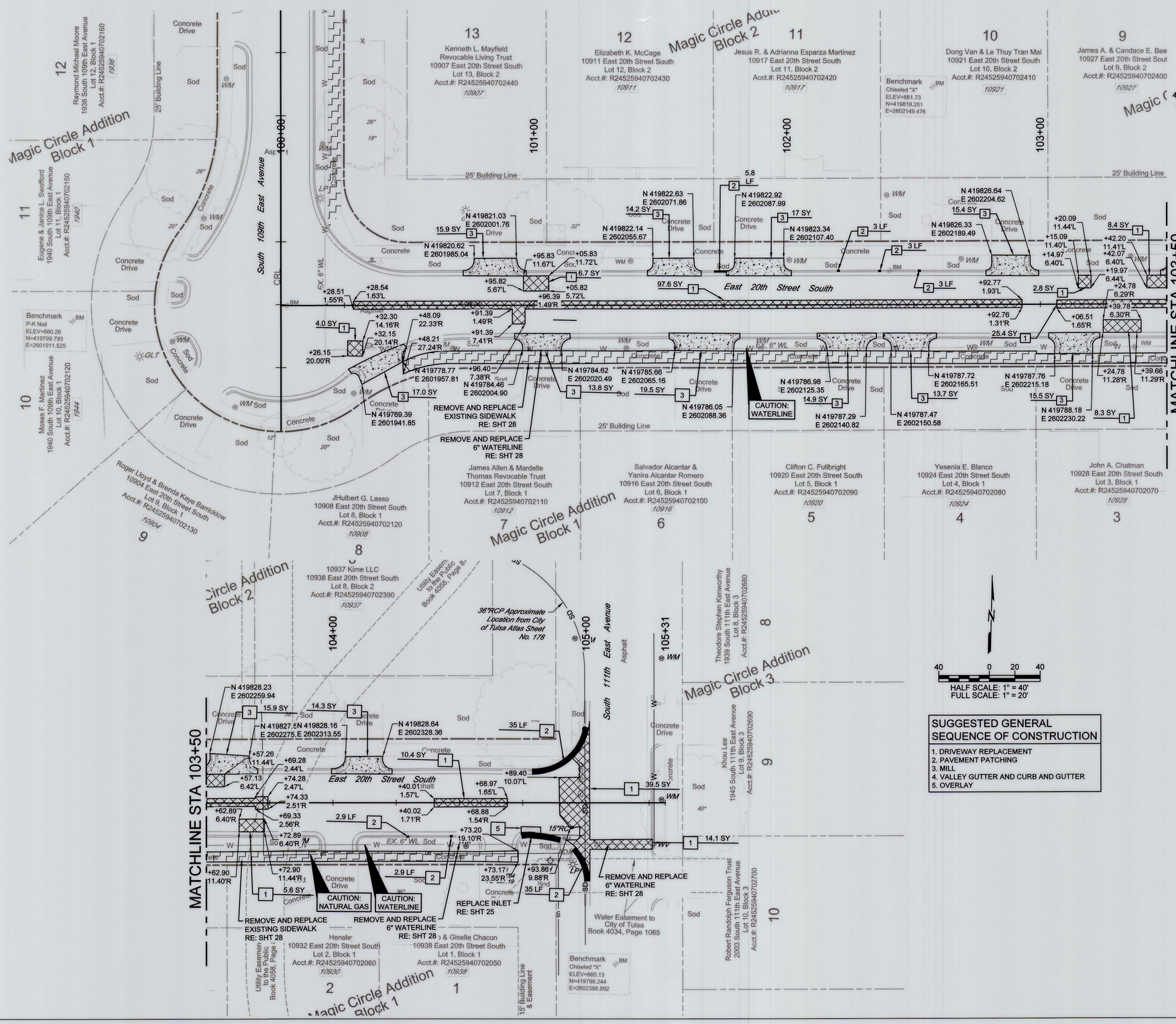


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BEFORE YOU DIG CALL OKIE

LANCE K. WOOLSEY 15383 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA

| REVISION | BY | DATE |
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| | | |

**DEMOLITION SHEET 3**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective

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tulsa, oklahoma 74103
918.584.5858 · wallace.design

| | | | | |
|---|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 | APPROVED |
| | DESIGNED | LKW | 9/2022 | |
| | SURVEY | RWB | 9/2022 | |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 | |
| HORIZONTAL: 1"=20' | LEAD ENGR. | LKW | 9/24 | |
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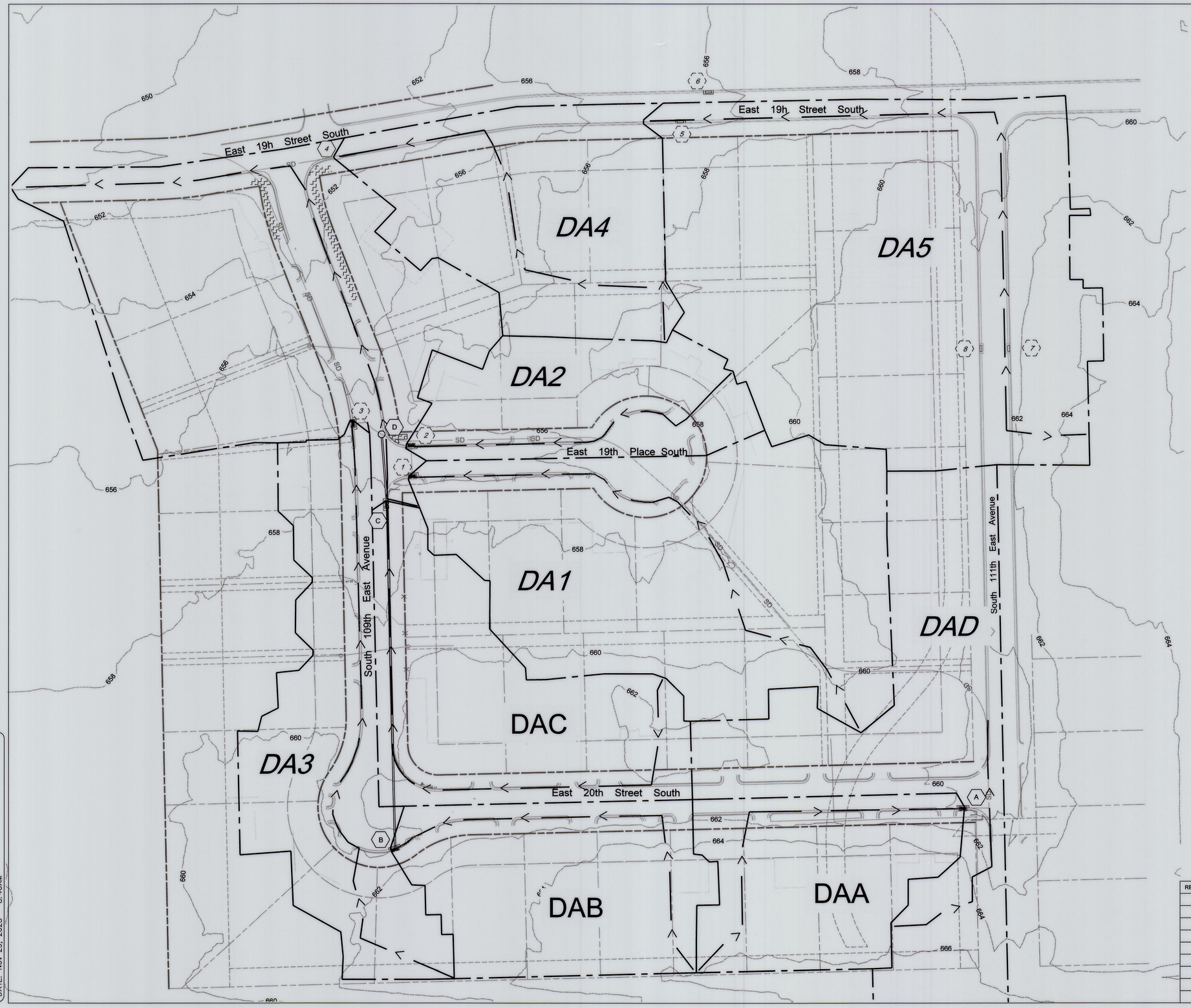
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | HAS | 9.25 | |

FILE: DRAWING: DATE: 09.26.25

ATLAS PAGE NO: 178 SHEET 17 OF 28 SHEETS

PATH: Z:\2240017_MZ_5027\Dwg\PRODUCTION\
FILE: 2240017 DEMOLITION E-W.dwg
DATE: Nov 29, 2023 — 8:39AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




40 0 20 40

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

LEGEND

- (1) EXISTING STRUCTURE TO REMAIN
- (A) PROPOSED STRUCTURE
- DRAINAGE AREA BOUNDARY
- FLOW PATH

NOTE:
DRAINAGE AREAS OUTSIDE RDY RW APPROXIMATED FROM LiDAR 2' CONTOURS FROM OK MAPS.

DA4, DA5 & DAD ARE OUTSIDE PROJECT LIMITS AND SHOWN FOR REFERENCE ONLY.

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# DRAINAGE AREA MAP

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=40' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=40' | LEAD ENGR. | BDZ | 9/24 |
| VERTICAL: N/A | FIELD MGR. | | |
| | RECOMMENDED: DESIGN MANAGER | | |

APPROVED

FILE: DRAWING:

DATE: 09.24.25

ATLAS PAGE NO: 178

SHEET 18 OF 28 SHEETS

PATH: Z:\2240017_MZ_5027\Dwg\PRODUCTION\
FILE: 2240017 DRAINAGE AREA.dwg
DATE: Nov 29, 2023 - 8:40AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

## STORM SEWER SUMMARY TABLE, MZ 5027 COT #2036N5027Z

| STR NO. (UPSTREAM) | ALIGNMENT | STA | OFFSET | SIDE | DESCRIPTION | COT STD DWG | NORTHING | EASTING | MANHOLES | | | | | | | | | | | INLETS | | | | | | STORM SEWER PIPE REINF.CONC. PIPE, CLASS III | | | STR NO. (UPSTREAM) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | RIM ELEV | FLOWLINE IN | | | FLOWLINE OUT | | | INNER STR HT (6' STD) | 4' I.D. | 5' I.D. | 6' I.D. | ADD'L DEPTH 4' I.D. | ADD'L DEPTH 5' I.D. | ADD'L DEPTH 6' I.D. | TOP OF CURB ELEV | TOP OF GRATE ELEV | FLOWLINE OUT | INNER STR HT (CICI 3.71' STD) | CICI-2 | ADD'L DEPTH CICI-2 | 15" ROUND | 18" ROUND | 24" ROUND | |
| | | | | | | | | | | | | | | | | | 611(A) | 611(A) | 611(A) | 611(B) | 611(B) | 611(B) | | | | | 611(G) | 611(H) | 613(A) COT215 | 613(A) COT215 | 613(A) COT215 | |
| | | | | | | | | | FT | FROM STR | PIPE SIZE | ELEV | TO STR | PIPE SIZE | ELEV | FT | EA | EA | EA | VF | VF | VF | FT | FT | FT | FT | EA | VF | LF | LF | LF | |
| B | S. 109TH E. AVE. | 10+13.69 | 12.76 | RT | INLET, CICI DES 2 W/ 284LF 15" ROUND | 764 | 419764..55 | 2601922.73 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 659.88 | 659.38 | 654.97 | 4.41 | 1 | 1 | 284 | - | - | B |
| C | S. 109TH E. AVE. | 13+67.03 | 13.8 | LT | INLET, CICI DES 2 W/ 52LF 15" ROUND | 764 | 420115.27 | 2601886.62 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 656.74 | 656.24 | 651.48 | 4.76 | 1 | 1 | 52 | - | - | C |
| MH-1 | S. 109TH E. AVE. | 13+55.50 | 9.84 | RT | MANHOLE, 6' ID, OVER EX 42" RCP | 775 | 420106.48 | 2601911.30 | 655.00 | I-5 | 15" | 650.83 | - | 42" | unk. | 5.00 | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | MH1 |
| STREET TOTAL - S. 109TH E. AVE. | | | | | | | | | | | | | | | | | - | - | 1 | - | - | 1 | | | | | 2 | 2 | 336 | - | - | |
| PROJECT TOTAL | | | | | | | | | | | | | | | | | - | - | 1 | - | - | 1 | | | | | 2 | 2 | 336 | - | - | |

## PIPE DESIGN TABLE

| Label | Start Node | Invert (Start) (ft) | Stop Node | Invert (Stop) (ft) | Length (ft) | Slope (%) | Conduit Shape | Material | Manning's n | Diameter (in) | Flow (ft³/s) | Capacity (Full Flow) (ft³/s) | Hydraulic Grade Line (In) (ft) | Hydraulic Grade Line (Out) (ft) | Velocity (Maximum) (ft/s) | Velocity (Half Full) (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SD-1 | MH1 | 652.00 | I5 | 653.00 | 52.0 | 1.88 | circ | RCP | 0.012 | 15 | 3.87 | 10.41 | 652.55 | 653.55 | 3.87 | 7.82 |
| SD-2 | I5 | 653.00 | I6 | 655.00 | 284.0 | 0.71 | circ | RCP | 0.012 | 15 | 1.33 | 6.40 | 653.60 | 655.42 | 3.92 | 4.81 |

## INLET DESIGN TABLE (RATIONAL)

| DRAINAGE AREA BASIN | INLET NO. | DRAINAGE AREA (SF) | DRAINAGE AREA (ACRES) | RATIONAL "C" | REACH GRASS (FEET) | SLOPE GRASS (%) | VELOCITY GRASS (FPS) | REACH PAVING (FEET) | SLOPE PAVING (%) | VELOCITY PAVING (FPS) | TOTAL Tc (MIN) | I 100 (IN/HR) | Q 100 (CFS) | % SLOPE AT INLET | SUM Q 100 AT INLET (CFS) | D 100 INLET (FEET) | MAX DEPTH AT INLET (FEET) | Q INTERCEPTED (CFS) | Q 100 BYPASS (CFS) | TO STRUCTURE | CLOGGING FACTOR | INLET DESIGN | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *DA1* | 1 | 38,878 | 0.89 | 0.45 | 159 | 0.02 | 1.0 | 360 | 0.00 | 1.19 | 7.6 | 9.9 | 3.98 | 0.34 | 6.38 | 0.27 | 0.38 | 3.41 | 3.36 | - | 1.00 | Double Grate Design 2 | bypasses north and west |
| *DA2* | 2 | 24,713 | 0.57 | 0.45 | 53 | 0.02 | 1.0 | 238 | 0.00 | 1.19 | 4.2 | 11.3 | 2.88 | 0.34 | 2.88 | 0.26 | 0.38 | 2.21 | 0.67 | - | 1.00 | Double Grate Design 2 | bypasses north and west |
| *DA3* | 3 | 69,988 | 1.61 | 0.40 | 150 | 0.02 | 1.0 | 215 | 0.02 | 2.50 | 4.6 | 11.1 | 7.12 | 1.51 | 9.00 | 0.36 | 0.38 | 4.50 | 2.16 | - | 1.00 | Double Grate Design 2 | bypasses north and west |
| DAA | A | 26,503 | 0.61 | 0.45 | 147 | 0.02 | 1.0 | 174 | 0.01 | 1.87 | 4.0 | 11.4 | 3.11 | 0.85 | 3.11 | 0.23 | 0.38 | 2.09 | 1.02 | - | 1.00 | Double Grate Design 2 | bypasses east and north |
| DAB | B | 38,133 | 0.88 | 0.45 | 88 | 0.02 | 0.9 | 430 | 0.01 | 2.03 | 5.2 | 10.8 | 4.26 | 0.02 | 4.26 | 0.23 | 0.38 | 2.54 | 1.88 | 3 | 1.00 | Double Grate Design 2 | - |
| DAC | C | 32,647 | 0.75 | 0.45 | 133 | 0.02 | 1.0 | 222 | 0.02 | 2.50 | 3.6 | 11.6 | 3.90 | 1.51 | 3.90 | 0.17 | 0.38 | 1.33 | 2.40 | - | 1.00 | Double Grate Design 2 | bypasses north and west |

NOTE:
DRAINAGE AREAS OUTSIDE RDY RW APPROXIMATED FROM LiDAR 2' CONTOURS FROM OK MAPS.

CAUTION
NOTICE TO CONTRACTOR

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BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER — LANCE K. WOOLSEY — 15383 — OKLAHOMA — 12-15-2023

**DRAINAGE SUMMARIES**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 wallace.design

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|---|---|---|---|
| PLAN SCALE: N/A | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: N/A | LEAD ENGR. | BDC | 9/24 |
| | FIELD MGR. | [illegible] | 9/25 |
| VERTICAL: N/A | RECOMMENDED | [signature] | DESIGN MANAGER |

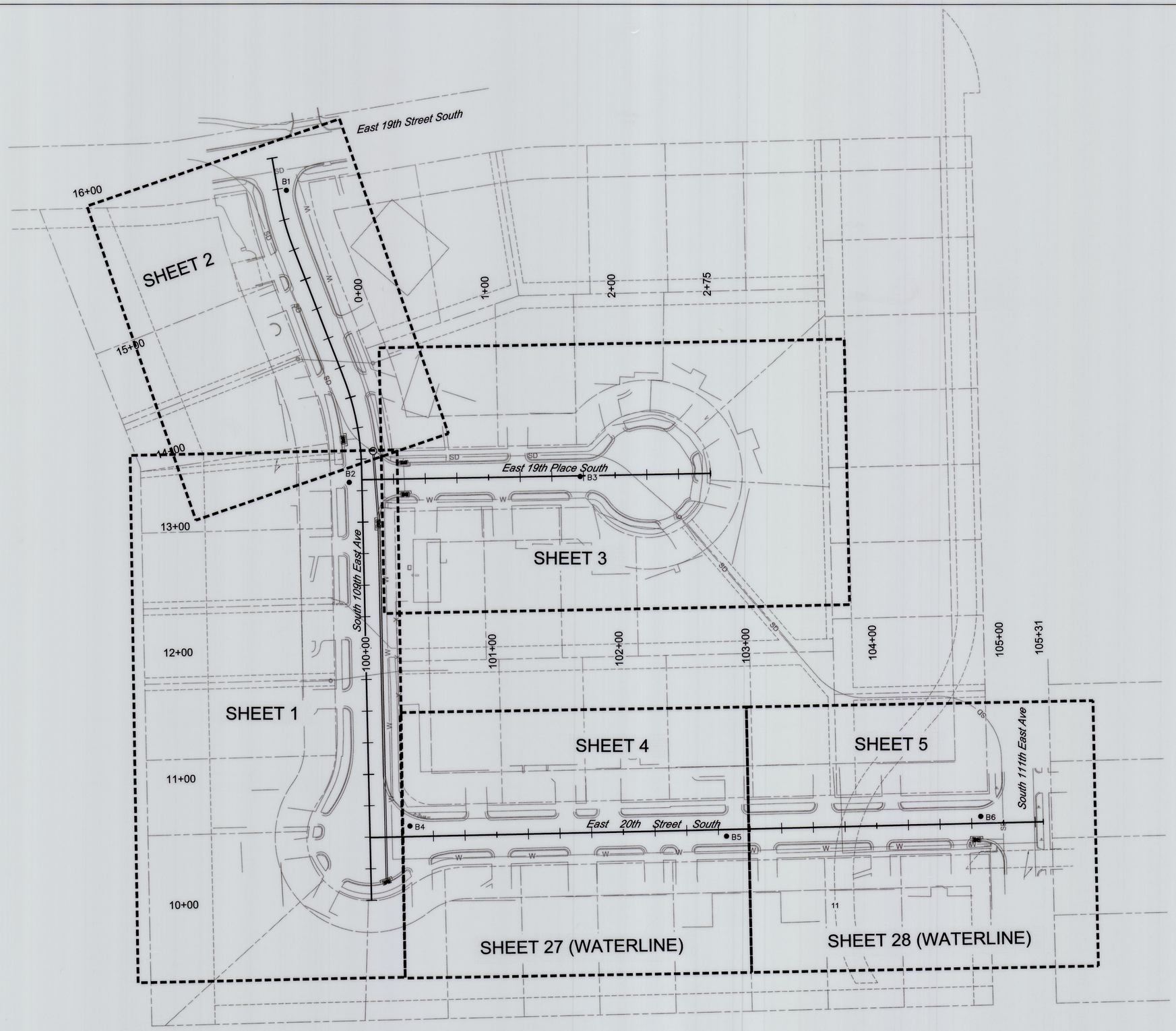
APPROVED [signature]

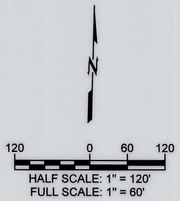
FILE: DRAWING: DATE: 09.24.25

ATLAS PAGE NO: 178 SHEET 19 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 DRAINAGE AREA.dwg
DATE: Nov 29, 2023 - 8:49AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




CAUTION

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BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# KEY MAP AND BORING MAP

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

PLAN SCALE: 1"=40'
PROFILE SCALE HORIZONTAL: 1"=40'
VERTICAL: N/A

| | | |
|---|---|---|
| DRAWN | GRA | 9/2022 |
| DESIGNED | LKW | 9/2022 |
| SURVEY | RWB | 9/2022 |
| PROJ MGR. | | 12/23 |
| LEAD ENGR. | | 9/27 |
| FIELD MGR. | | 9/25 |
| RECOMMENDED: DESIGN MANAGER | | 9.25 |

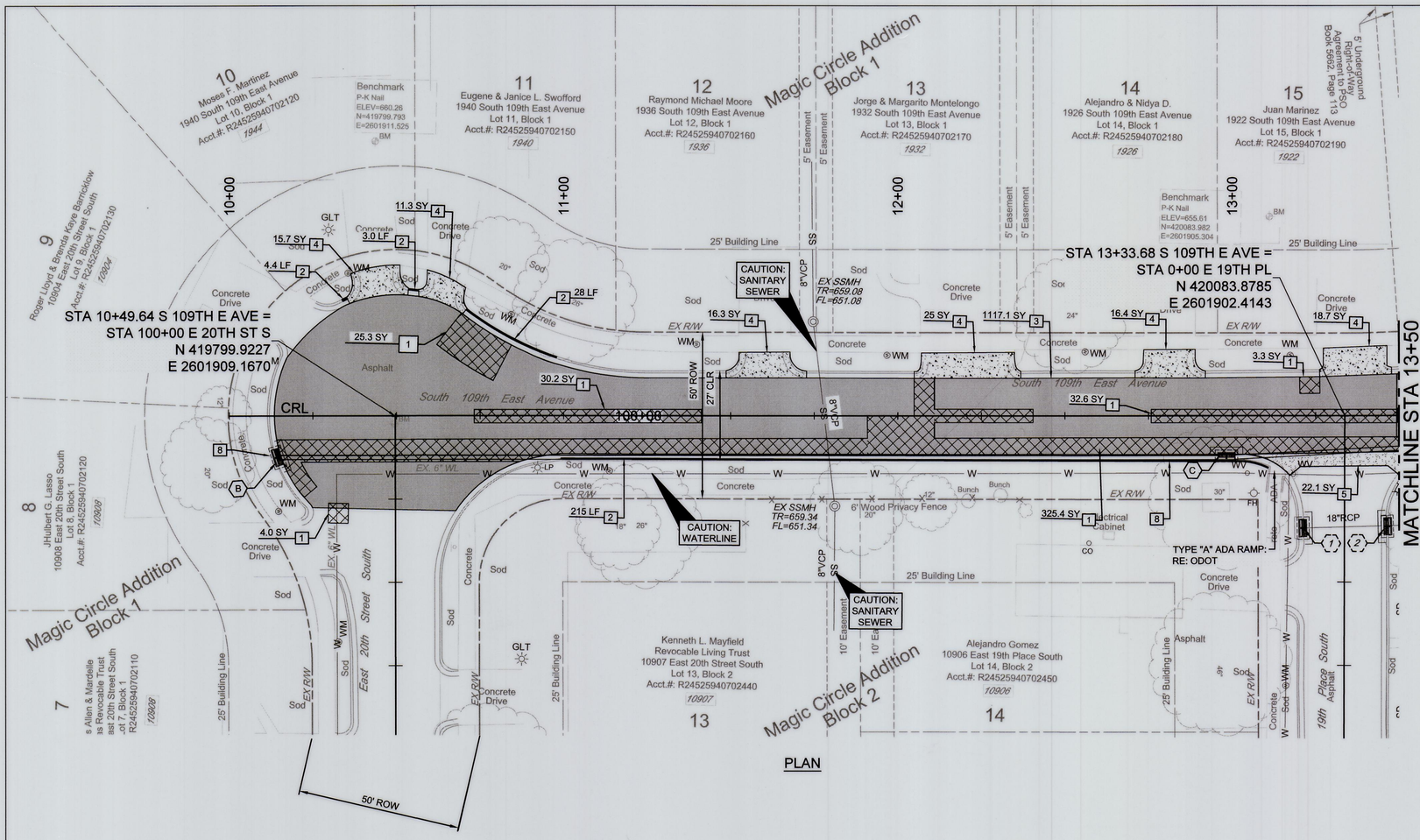
APPROVED

FILE: DRAWING: DATE: 9.26.25

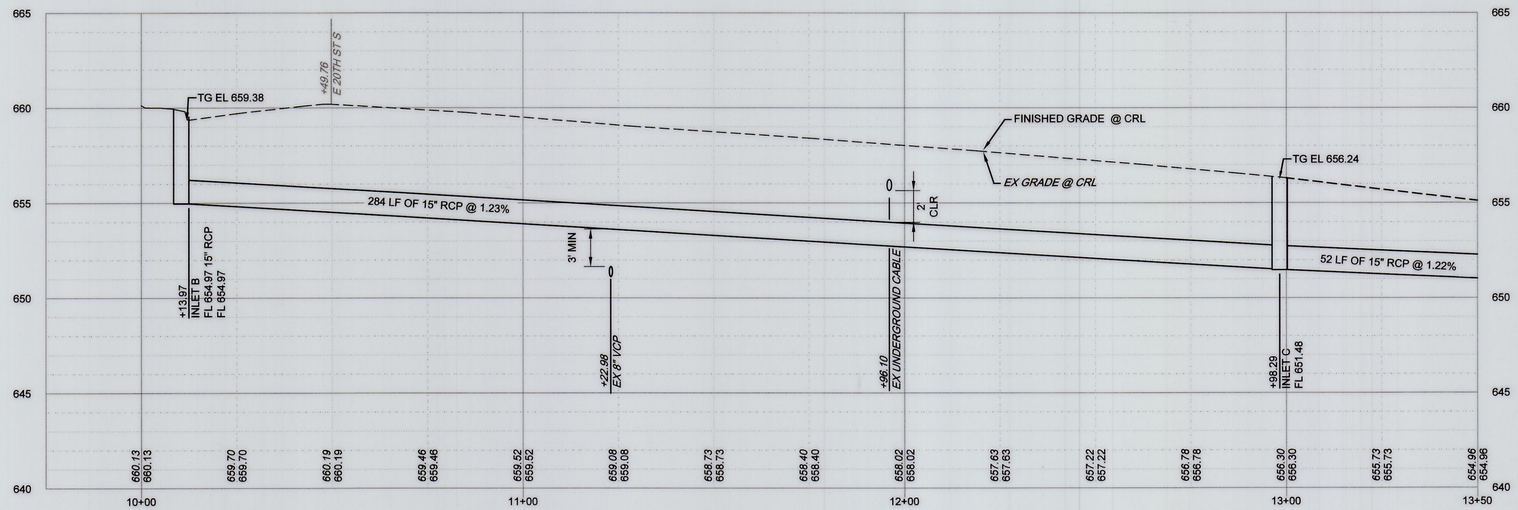
ATLAS PAGE NO: 178 SHEET 20 OF 28 SHEETS

PATH: Z:\2240917_MZ_5027\Dwg\PRODUCTION\
FILE: 2240917 ROAD KEY MAP.dwg
DATE: Nov 29, 2023 - 8:40AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN




PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

## LEGEND

1. FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL) RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. MILL/OVERLAY PAVEMENT RE: SHEET 9
4. CONCRETE DRIVE RE: SHEET 10
5. VALLEY GUTTER RE: SHEET 10
6. SIDEWALK REPLACEMENT RE: SHEET 10
7. REPLACE HOOD AND GRATE RE: CITY OF TULSA
8. REMOVE & REPLACE INLET RE: ODOT

DRAINAGE INLET NUMBER

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

CAUTION
NOTICE TO CONTRACTOR

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REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

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**PLAN AND PROFILE S 109TH E AVE SHT 1**
**STA 10+00 TO 13+50**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

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wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | | 9.25 |

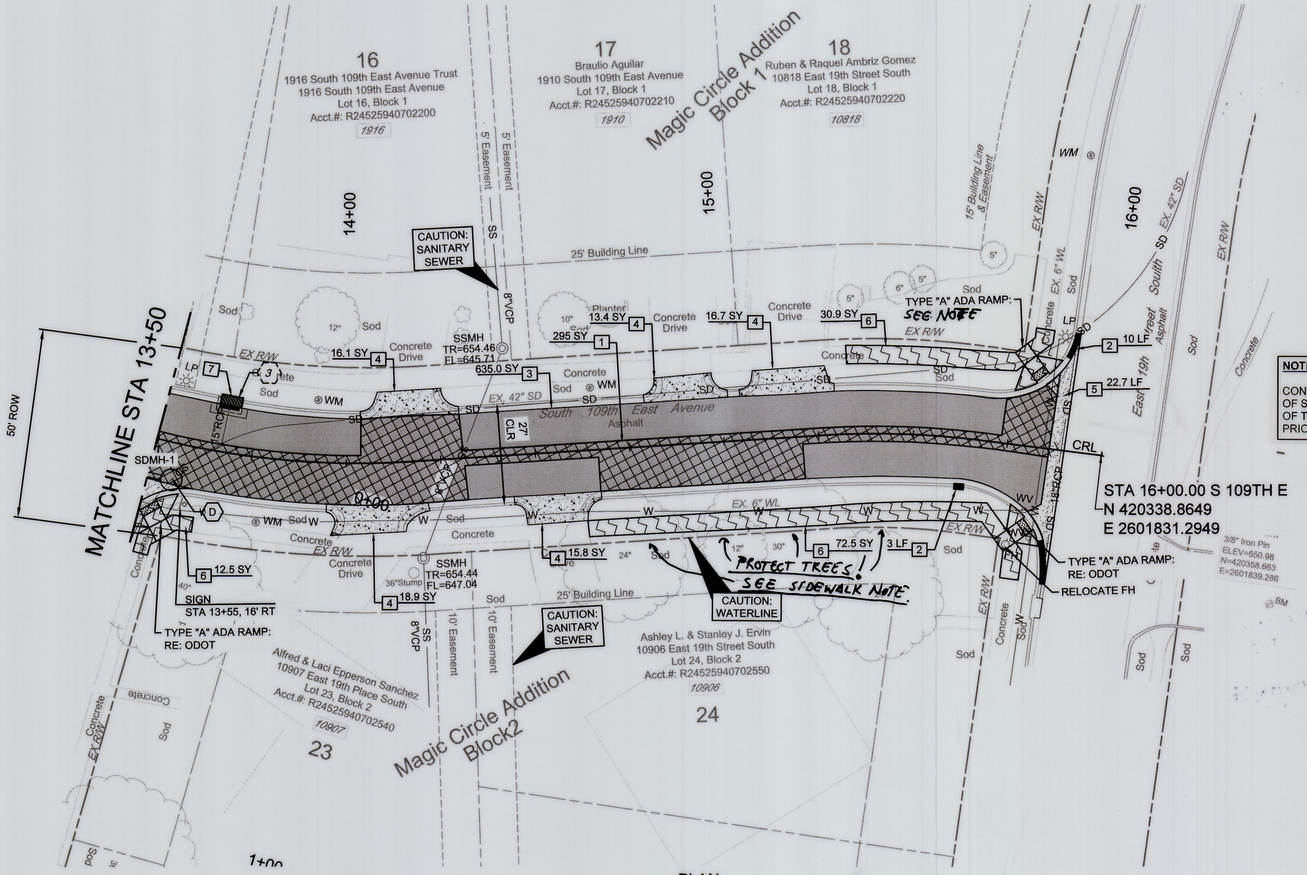
APPROVED

FILE: DRAWING: DATE: 09.26.25

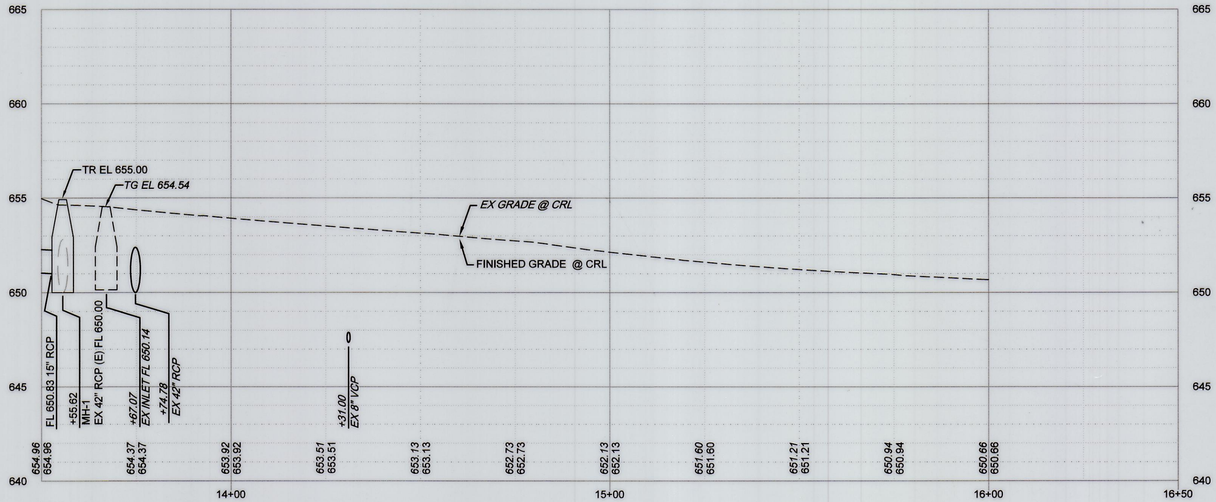
ATLAS PAGE NO: 178 SHEET 21 OF 28 SHEETS

PATH: Z:\2240017_MZ_5027\Dwg\PRODUCTION\
FILE: 2240017 PLAN PROFILES 109th.dwg
DATE: Dec 19, 2023 - 3:48PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN




PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

SIDEWALK NOTE.

**NOTE:**

CONTRACTOR SHALL COORDINATE ORIENTATION OF SIDEWALK AND RAMP LAYOUT WITH THE CITY OF TULSA ENGINEERING DESIGN AND FIELD ENGINEER PRIOR TO DEMOLITION AND CONSTRUCTION.

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

## LEGEND

1. FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL) RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. MILL/OVERLAY PAVEMENT RE: SHEET 9
4. CONCRETE DRIVE RE: SHEET 10
5. VALLEY GUTTER RE: SHEET 10
6. SIDEWALK REPLACEMENT RE: SHEET 10
7. REPLACE HOOD AND GRATE RE: CITY OF TULSA
8. REMOVE & REPLACE INLET RE: ODOT

DRAINAGE INLET NUMBER (A)

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

BEFORE YOU DIG CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
11-17-25

**S 109TH E AVE PLAN AND PROFILE SHT 2**
**STA 13+50 TO 16+00**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

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wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
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| REVISION | BY | DATE |
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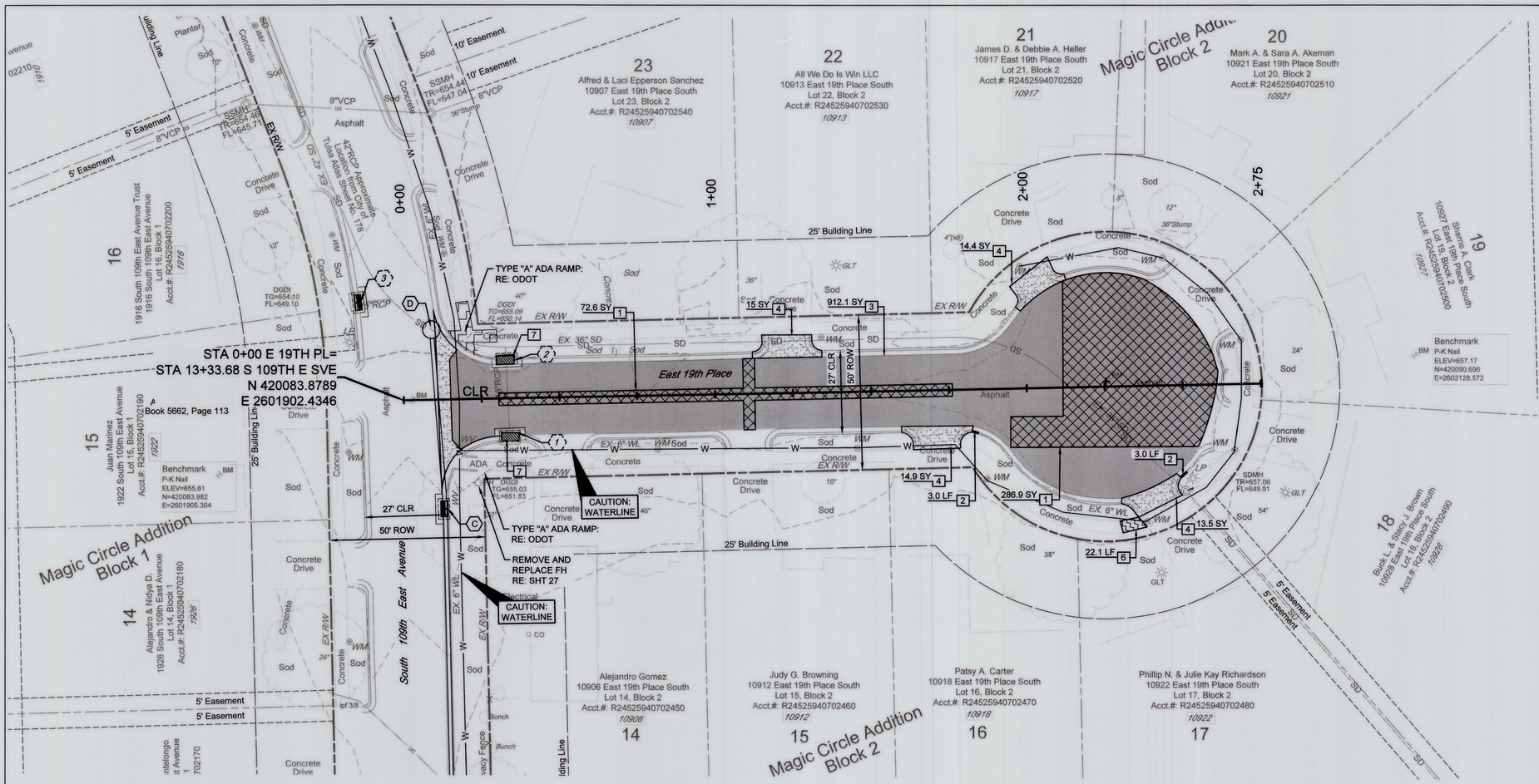
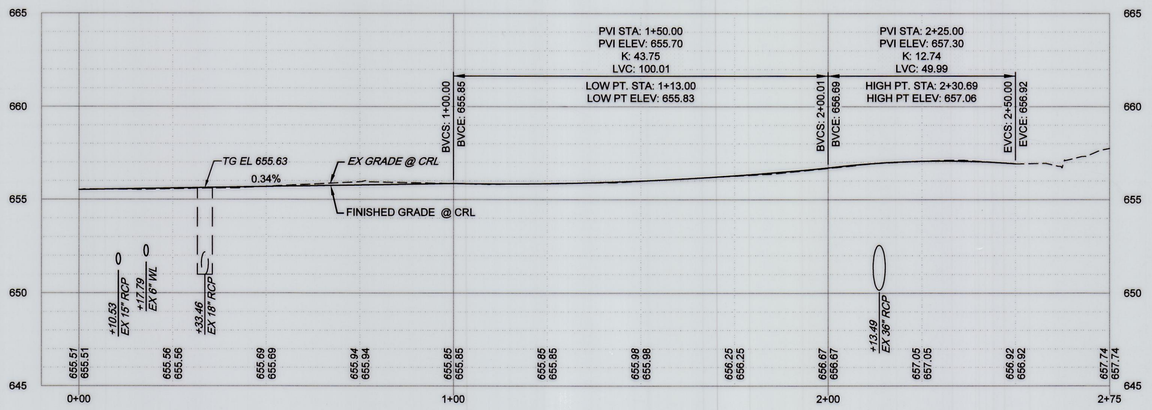
|---|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 | APPROVED |
| | DESIGNED | LKW | 9/2022 | |
| | SURVEY | RWB | 9/2022 | |
| PROFILE SCALE | PROJ MGR. | JH | 12/25 | |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 | |
| | FIELD MGR. | | 9/25 | |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | HAI | 9.25 | |
| FILE: | DRAWING: | | DATE: | 09.26.25 |
| ATLAS PAGE NO: 178 | | | SHEET 22 OF 28 SHEETS | |

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 PLAN PROFILES 109th.dwg
DATE: Nov 29, 2023 - 8:40AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN




PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

## LEGEND

1. FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL) RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. MILL/OVERLAY PAVEMENT RE: SHEET 9
4. CONCRETE DRIVE RE: SHEET 10
5. VALLEY GUTTER RE: SHEET 10
6. SIDEWALK REPLACEMENT RE: SHEET 10
7. REPLACE HOOD AND GRATE RE: CITY OF TULSA
8. REMOVE & REPLACE INLET RE: ODOT

DRAINAGE INLET NUMBER

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

BEFORE YOU DIG CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

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LANCE K. WOOLSEY 15383 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA

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**PLAN AND PROFILE E 19TH PL**
**STA 0+00 TO 2+75**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 . wallace.design

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | |

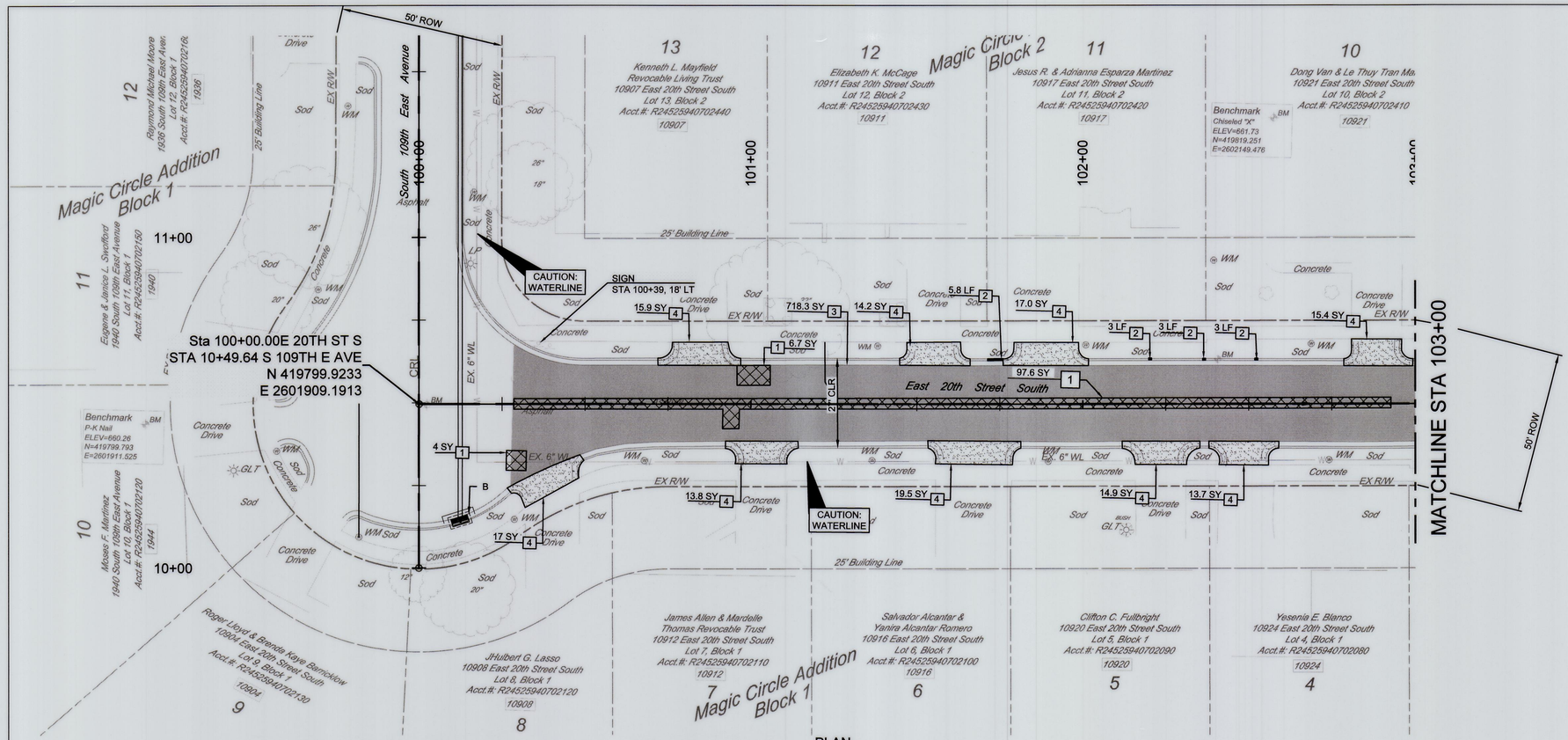
APPROVED

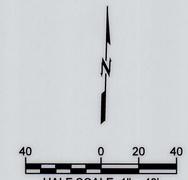
| | |
|---|---|
| FILE: | DRAWING: |
| ATLAS PAGE NO: 178 | SHEET 23 OF 28 SHEETS |

DATE: 09-24-25

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 PLAN PROFILES 19th.dwg
DATE: Nov 29, 2023 - 8:40AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




## LEGEND

1. FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL) RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. MILL/OVERLAY PAVEMENT RE: SHEET 9
4. CONCRETE DRIVE RE: SHEET 10
5. VALLEY GUTTER RE: SHEET 10
6. SIDEWALK REPLACEMENT RE: SHEET 10
7. REPLACE HOOD AND GRATE RE: CITY OF TULSA
8. REMOVE & REPLACE INLET RE: ODOT

DRAINAGE INLET NUMBER (A)

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

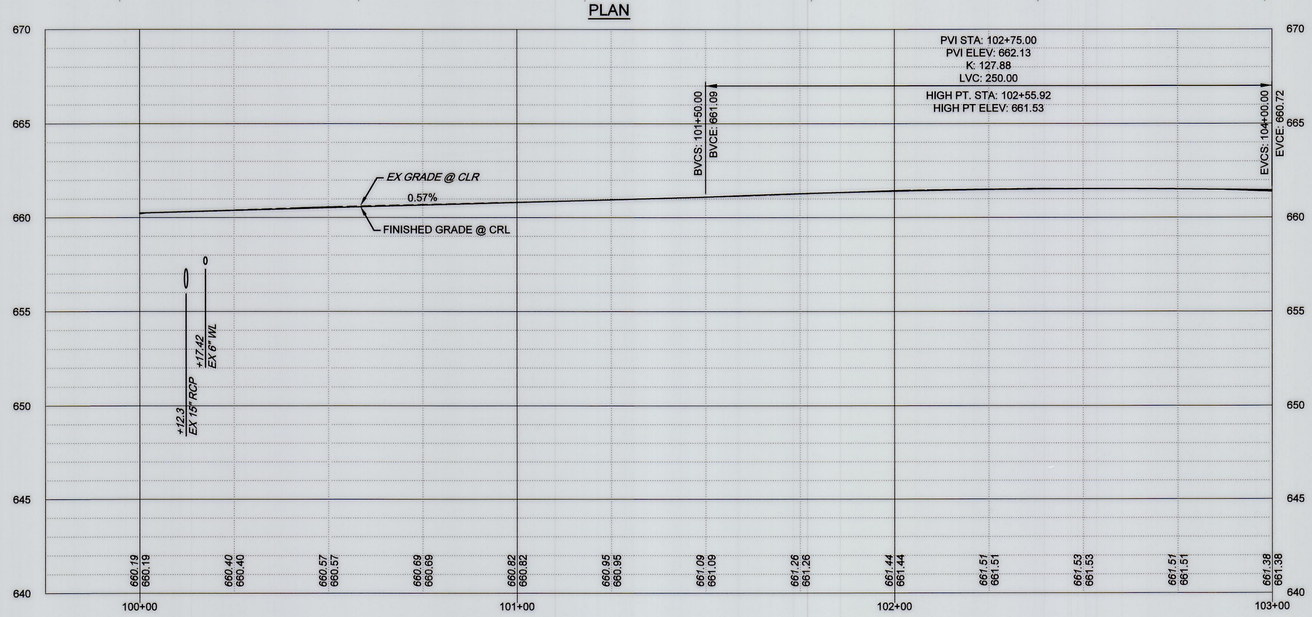
WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

BEFORE YOU DIG CALL OKIE

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

PLAN




PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

LANCE K. WOOLSEY 15383 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA

**E 20TH ST S PLAN AND PROFILE SHT 1**
**STA 100+00 T 103+00**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/24 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | 9.25 |

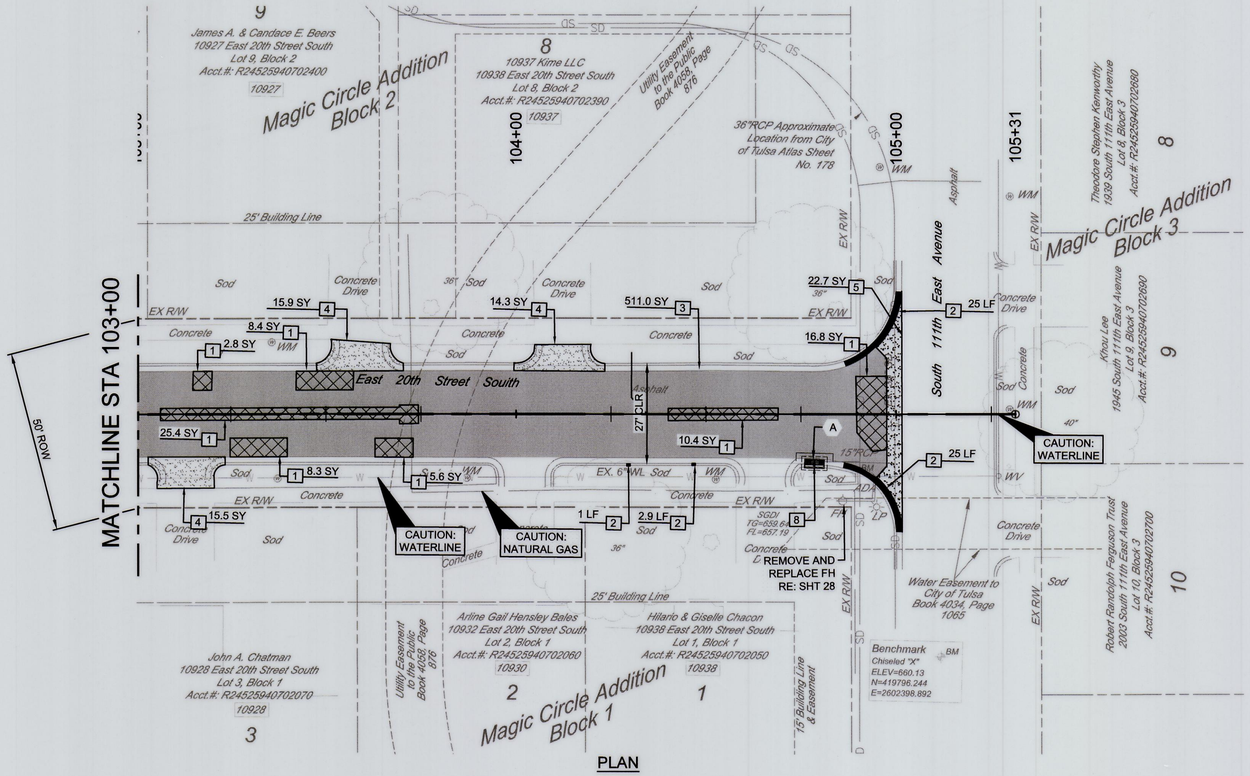
APPROVED

FILE: DRAWING: DATE: 09.24.25

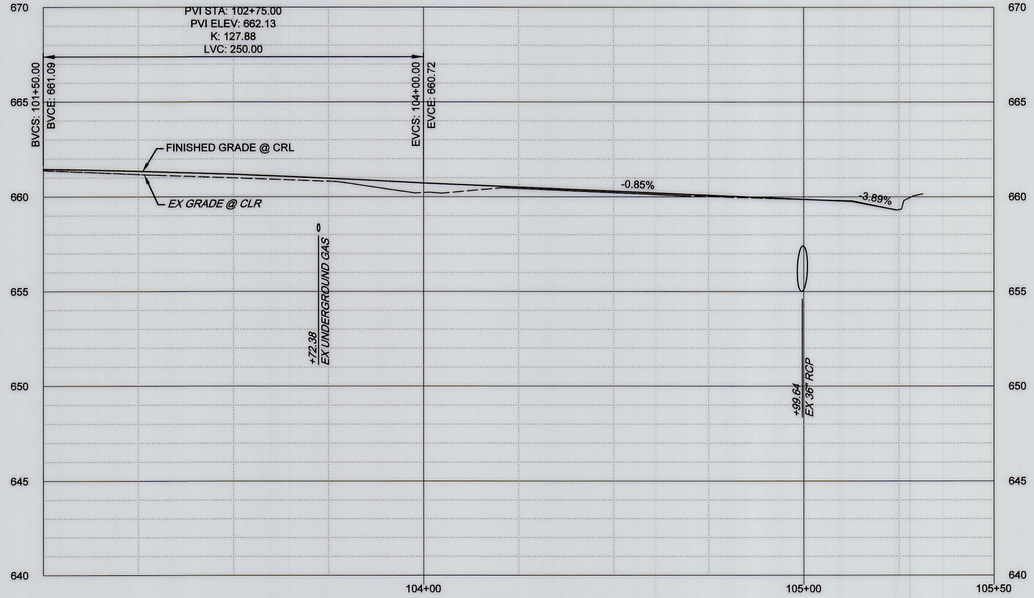
ATLAS PAGE NO: 178 SHEET 24 OF 28 SHEETS

PATH: Z:\2024\017.MZ.5027\Dwg\PRODUCTION\
FILE: 224017 PLAN PROFILES 22th.dwg
DATE: Nov 29, 2023 - 8:40AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN




PROFILE

HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'




## LEGEND

1. FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL) RE: SHEET 9
2. CURB/GUTTER REPLACEMENT RE: SHEET 10
3. MILL/OVERLAY PAVEMENT RE: SHEET 9
4. CONCRETE DRIVE RE: SHEET 10
5. VALLEY GUTTER RE: SHEET 10
6. SIDEWALK REPLACEMENT RE: SHEET 10
7. REPLACE HOOD AND GRATE RE: CITY OF TULSA
8. REMOVE & REPLACE INLET RE: ODOT

DRAINAGE INLET NUMBER

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

WATERLINE DEMOLITION AND REPLACEMENT
RE: SHEETS 27 AND 28.

CAUTION

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

BEFORE YOU DIG CALL OKIE

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
9/2025

# E 20TH ST S PLAN AND PROFILE SHT 2
# STA 103+00 TO 105+50

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

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tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | | 12/22 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | | 9/25 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | 9.25 |

APPROVED

FILE: DRAWING:

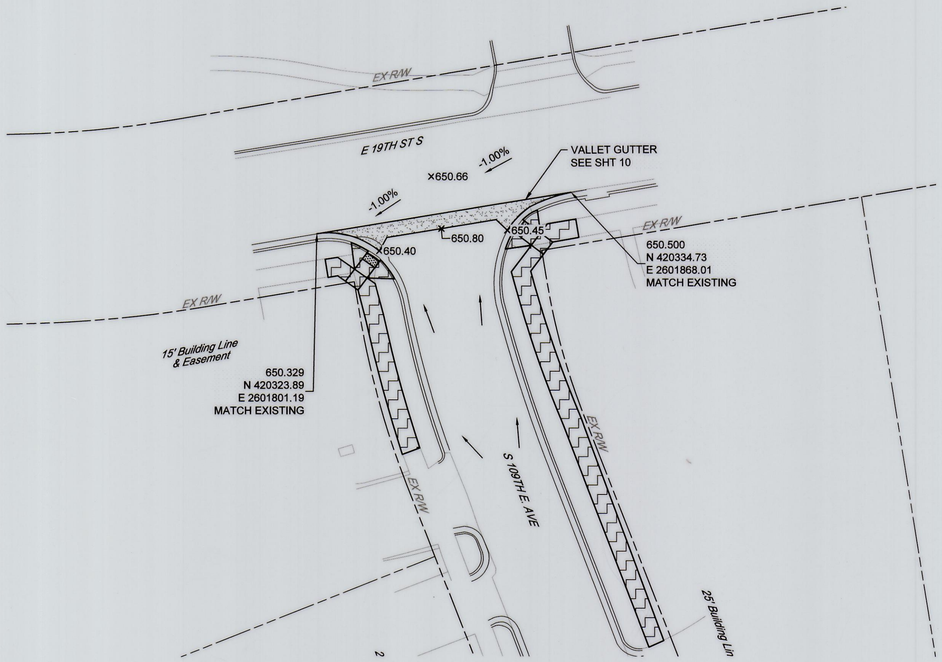
DATE: 09.22.25

ATLAS PAGE NO: 178

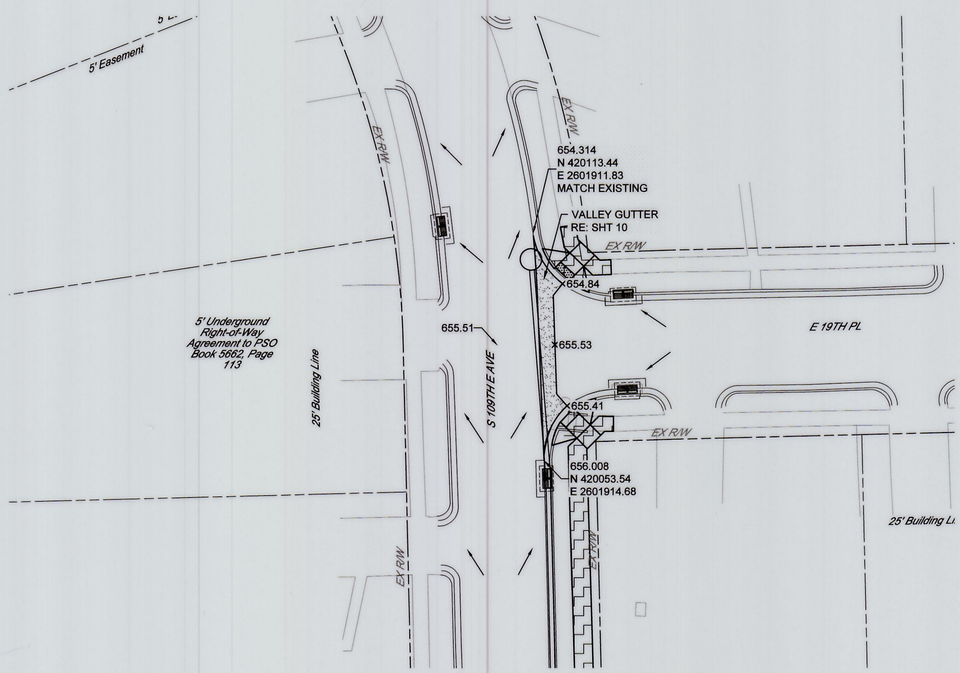
SHEET 25 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 PLAN PROFILES 20th.dwg
DATE: Dec 19, 2023 - 3:46PM

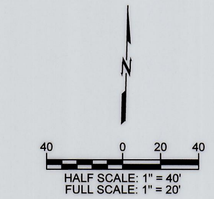
Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z

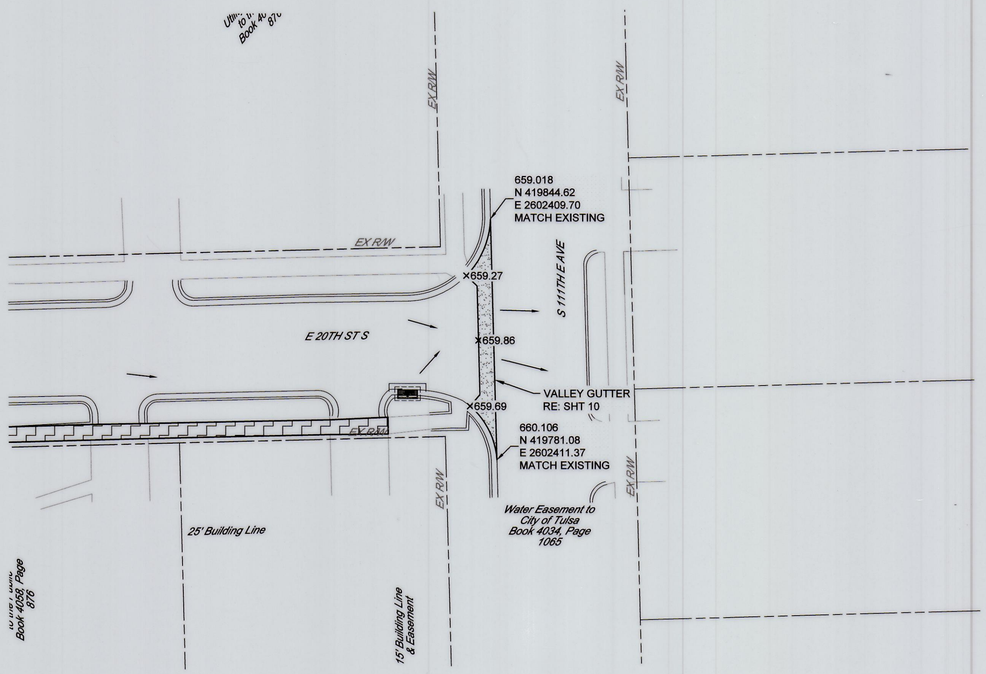



**E 19TH ST AND S 109TH E AVE**




**E 19TH PL AND S 109TH E AVE**




**E 20TH ST S AND S 111TH E AVE**

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin<br>EL 650.98<br>N 420358.663<br>E 2601839.286 | P-K Nail<br>EL 655.72<br>N 420083.988<br>E 2601905.299 | P-K Nail<br>EL 657.17<br>N 420090.696<br>E 2602128.572 |
| P-K Nail<br>EL 660.26<br>N 419799.793<br>E 2601911.525 | Chiseled "X"<br>EL 661.73<br>N 419819.251<br>E 2602149.476 | Chiseled "X"<br>EL 660.13<br>N 419796.244<br>E 2602398.892 |

BEFORE YOU DIG CALL OKIE

**CAUTION**

NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
12-19-2023

# INTERSECTION DETAILS

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
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| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: | DRAWN | GRA | 9/2022 |
| 1"=20' | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: | LEAD ENGR. | | 7/24 |
| 1"=20' | FIELD MGR. | | 9/25 |
| VERTICAL: | RECOMMENDED: | | |
| 1"=5' | DESIGN MANAGER | | |

APPROVED

DATE: 09.26.25

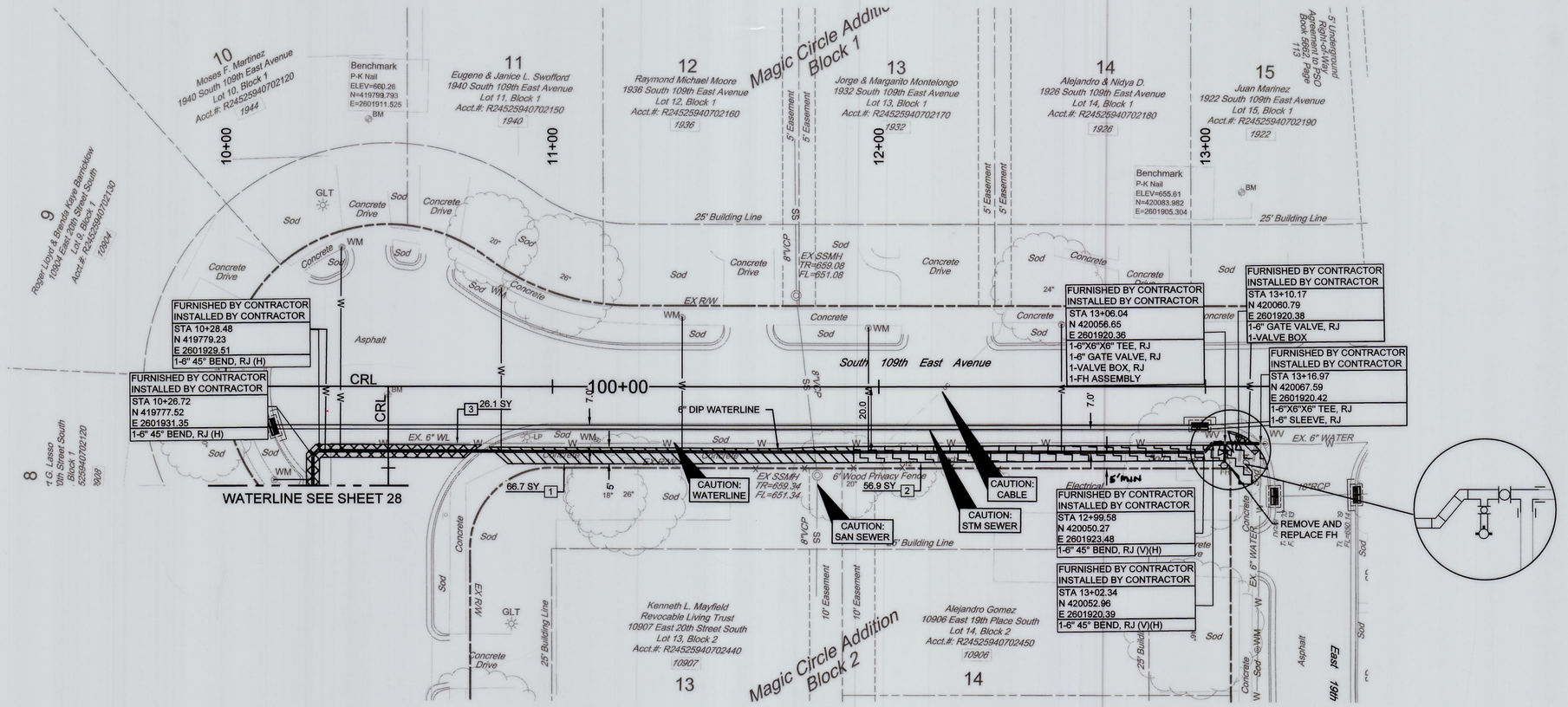
FILE: DRAWING:

ATLAS PAGE NO: 178

SHEET 26 OF 28 SHEETS

PATH: Z:\224017 MZ 5027\Dwg\PRODUCTION\
FILE: 224017 INTERSECTION DETAILS.dwg
DATE: Dec 19, 2023 - 3:49PM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




PLAN


PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

40 0 20 40
HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

## LEGEND

1. REMOVE / REPLACE CONCRETE SIDEWALK RE: SHEET 7
2. NEW SIDEWALK RE: SHEET 7
3. FULL DEPTH ASPHALT PATCH (TYPE 1 AC PATCH NON-ARTERIAL) RE: SHEET 6

| SERVICE CONNECTIONS THIS SHEET | |
|---|---|
| 0 | - 3/4" SHORT |
| 0 | -1" SHORT |
| 6 | -3/4" LONG |
| 0 | -1" LONG |

## Benchmark

| | | |
|---|---|---|
| 3/8" Iron Pin | P-K Nail | P-K Nail |
| EL 650.98 | EL 655.72 | EL 657.17 |
| N 420358.663 | N 420083.988 | N 420090.696 |
| E 2601839.286 | E 2601905.299 | E 2602128.572 |
| P-K Nail | Chiseled "X" | Chiseled "X" |
| EL 660.26 | EL 661.73 | EL 660.13 |
| N 419799.793 | N 419819.251 | N 419796.244 |
| E 2601911.525 | E 2602149.476 | E 2602398.892 |

MAXIMUM PIPE DEFLECTION, HORIZONTAL OR VERTICAL SHALL BE 1°30' PER JOINT. THE DEFLECTION NOTED SHALL BE SPACED EVENLY OVER THE STATIONS SHOWN

BEFORE YOU DIG OKLAHOMA CALL OKIE

CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

TMUA-W 22-19

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

# WATERLINE PLAN AND PROFILE SHT 1
# S 109TH E AVE

## MZ 5027 COT #2036N5027Z

## CITY OF TULSA, OKLAHOMA
## ENGINEERING SERVICES DEPARTMENT

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wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 . wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/23 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | CW | 9/24 |
| | FIELD MGR. | JH | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED DESIGN MANAGER | | |

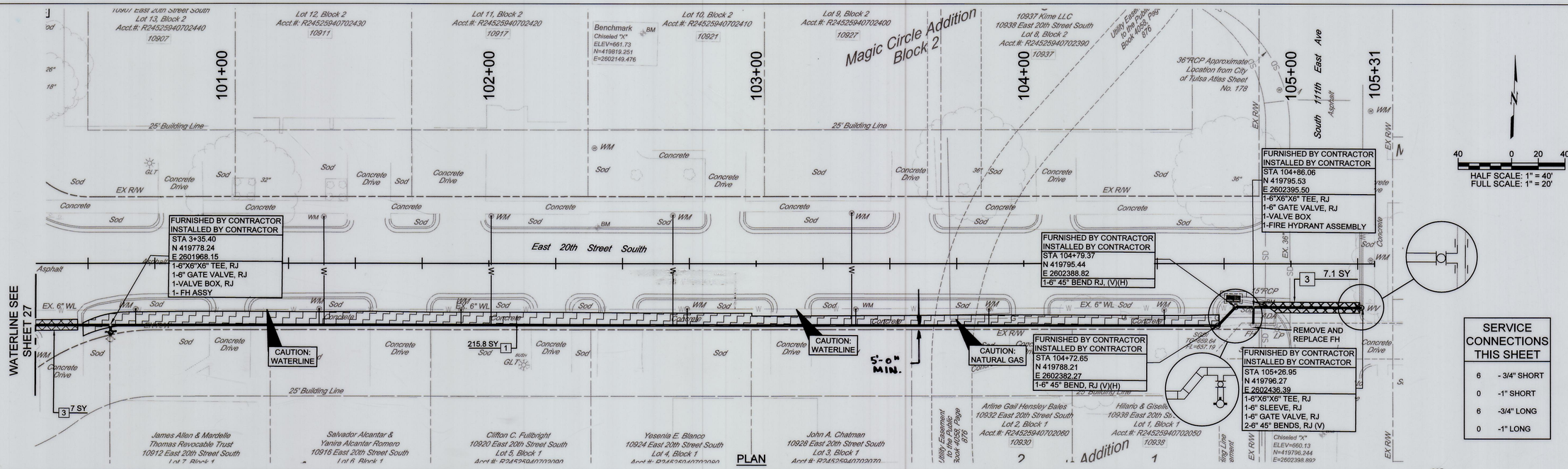
APPROVED

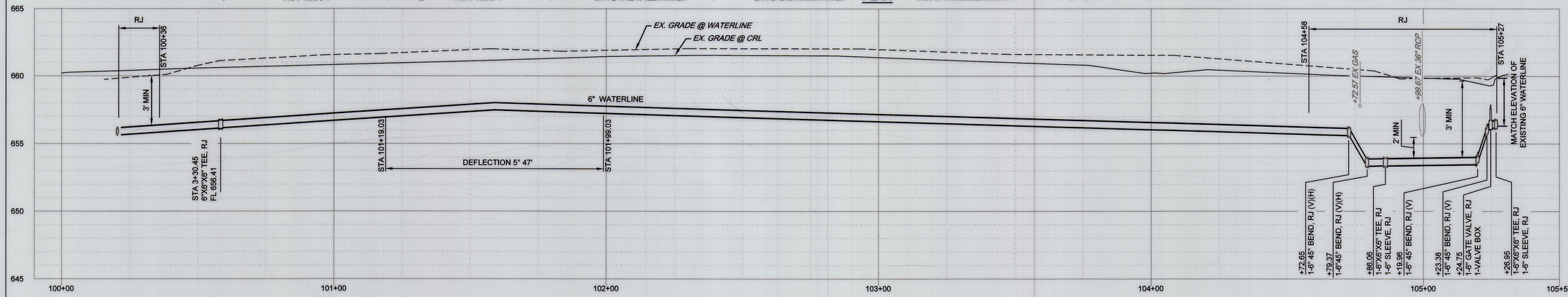
FILE: DRAWING: DATE: 09.30.25

ATLAS PAGE NO: 178 SHEET 27 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 WATER PLAN PROFILES.dwg
DATE: Nov 29, 2023 - 8:41AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z




## PROFILE
HORIZ SCALE 1"=20'
VERT SCALE: 1"=5'

## LEGEND

1. REMOVE / REPLACE CONCRETE SIDEWALK RE: SHEET 7
2. NEW SIDEWALK RE: SHEET 7
3. FULL DEPTH ASPHALT PATCH (TYPE 1 AC PATCH NON-ARTERIAL) RE: SHEET 6

MAXIMUM PIPE DEFLECTION, HORIZONTAL OR VERTICAL SHALL BE 1°30' PER JOINT. THE DEFLECTION NOTED SHALL BE SPACED EVENLY OVER THE STATIONS SHOWN

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## SERVICE CONNECTIONS THIS SHEET

| | |
|---|---|
| 6 | - 3/4" SHORT |
| 0 | -1" SHORT |
| 6 | -3/4" LONG |
| 0 | -1" LONG |

HALF SCALE: 1" = 40'
FULL SCALE: 1" = 20'

BEFORE YOU DIG OKLAHOMA CALL OKIE

CAUTION
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REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA

TMUA-W 22-19

**WATERLINE PLAN AND PROFILE SHT 2**
**E 20TH STREET S**

**MZ 5027 COT #2036N5027Z**

**CITY OF TULSA, OKLAHOMA**
**ENGINEERING SERVICES DEPARTMENT**

wallace design collective
wallace design collective, pc
123 n. martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858 · wallace.design

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | | | |
|---|---|---|---|
| PLAN SCALE: 1"=20' | DRAWN | GRA | 9/2022 |
| | DESIGNED | LKW | 9/2022 |
| | SURVEY | RWB | 9/2022 |
| PROFILE SCALE | PROJ MGR. | JH | 12/22 |
| HORIZONTAL: 1"=20' | LEAD ENGR. | LKW | 9/25 |
| | FIELD MGR. | | 9/25 |
| VERTICAL: 1"=5' | RECOMMENDED: DESIGN MANAGER | | |

APPROVED

FILE: DRAWING: DATE: 9.26.25

ATLAS PAGE NO: 178 SHEET 28 OF 28 SHEETS

PATH: Z:\2240017 MZ 5027\Dwg\PRODUCTION\
FILE: 2240017 WATER PLAN PROFILES.dwg
DATE: Nov 29, 2023 - 8:41AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 5027 - Project No. 2036N5027Z