CONSTRUCTION PLANS
FOR
NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 6035 BETWEEN E. 21ST ST. S. & E. 31ST ST. S./ S. GARNETT RD. & S. 129th E. AVE.

PROJECT NO. 2036N6035Z

ACCOUNT NO. 2036N6035Z.Streets.NArtRhb.4283N.42833200.541106

CITY OF TULSA

ENGINEERING SERVICES DEPARTMENT

FOR INDEX OF SHEETS & STANDARDS SEE SHEET 2

N

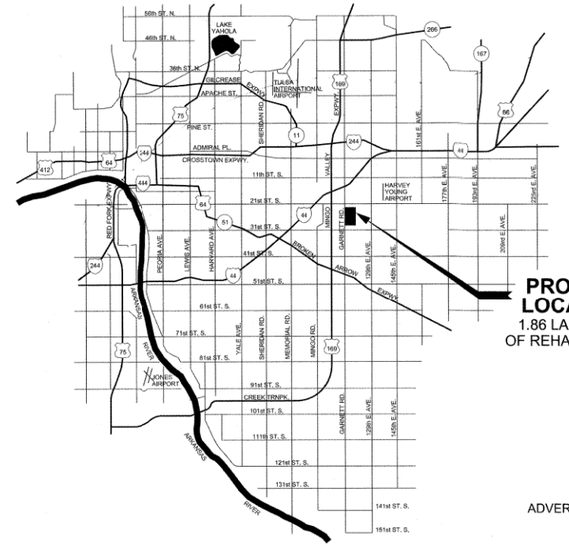
SCALE: 1"=3 MILES

3 0 3

SYMBOL LEGEND

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

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



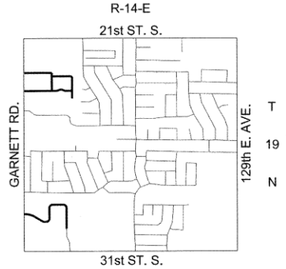
ENTIRE PROJECT IS WITHIN THE CORPORATE AND URBAN LIMITS OF THE CITY OF TULSA

SURVEY CONTROL DATA

Horizontal Control:
- (A) The bearings and coordinates used for this survey are based on the Oklahoma State Plane Coordinate System, North Zone - NAD 83 DATUM
- (B) Linear Unit is U.S. Survey Foot
- (C) Accuracy - 3rd Order or better

Vertical Controls:
- (A) Level Datum is NAVD 1988
- (B) Accuracy - 3rd Order or better
- (C) Permanent Benchmark: (ADS T218 & 19)

R-14-E



LOCATION MAP
SCALE: 1"=4000'

UTILITY COORDINATION

UTILITY	CONTACT	PHONE NO.
CITY OF TULSA	TONY GLYNN	918-596-9245
AEP/PSO	EMERGENCY	918-216-3523
ONG	EMERGENCY	800-664-5463
AT&T	EMERGENCY	800-288-2020
COX COMMUNICATIONS	CUSTOMER SERVICE	918-806-6000
VERIZON	CUSTOMER SERVICE	888-294-6804
WINDSTREAM	CUSTOMER SERVICE	800-347-1991

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

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

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

ADVERTISEMENT DATE: 07.24.26

APPROVED BY:

CITY ENGINEER — DATE: 7/22/2026

BENHAM a Haskell Company

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

PREPARED BY:

KRISTI ERICKSON, P.E.
OK P.E. NO. 25821
PROJECT ENGINEER

DATE: 7-6-26

LICENSED PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA

CERTIFICATE OF AUTHORIZATION NO. 7569 P.E. RENEWAL DATE 6-30-28

SHEET 1 OF 31 SHEETS

CITY OF TULSA

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 6035
BETWEEN E. 21ST ST. S. & E. 31ST ST. S./
S. GARNETT RD. & S. 129th E. AVE.
PROJECT NO. 2036N6035Z

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BENHAM a Haskell Company

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SHEET NO.	DRAWING TITLE
1	COVER SHEET
2	INDEX & STANDARDS
3-5	PAY ITEMS & NOTES
6-7	GENERAL CONSTRUCTION NOTES
8-9	SUMMARIES
10	TYPICAL SECTION
11	MISCELLANEOUS DETAILS
12-14	SURVEY DATA PLAN
15-16	GEOMETRIC DATA
17	STORMWATER MANAGEMENT PLAN
18-19	EROSION CONTROL PLAN
20	REHABILITATION KEY MAP
21-29	REHABILITATION PLAN
30-31	SEQUENCE OF CONSTRUCTION & TRAFFIC CONTROL

THE FOLLOWING CITY STANDARDS WILL BE REQUIRED

STD. NO.	STANDARD NAME
102	PROJECT SIGN
126	STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
401	MANHOLE GRADE ADJUSTMENT
414	MANHOLE ADJUSTING RING
701	CONCRETE DRIVEWAY DETAILS 1 AND 2
713	PAVEMENT REMOVAL & REPLACEMENT
714	PAVEMENT CUTS
725	STANDARD PAVEMENT PATCH AND REPAIR
726	ASPHALT PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL, AND COLLECTOR STREETS
730	STANDARD ASPHALT PAVEMENT CUT AND REPAIR

THE FOLLOWING ODOT STANDARDS WILL BE REQUIRED

ROADWAY DESIGN	
BMPR-0	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
TESCA-0	TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS
RSF-0	REINFORCED SILT FENCE INSTALLATION AND APPLICATIONS
SCE-0	STABILIZED CONSTRUCTION EXIT
SSS-2-1	SOLID SLAB SODDING
ASCD-6-1	ASPHALT SURFACING CONSTRUCTION DETAILS

TRAFFIC CONTROL	
TCS1-1-01	TRAFFIC CONTROL CONSTRUCTION NOTES
TCS2-1-00	TRAFFIC CONTROL TABLES AND CHARTS
TCS4-1-01	TRAFFIC CONTROL DEVICES
TCS5-1-00	TYPICAL SIGN INSTALLATION
TCS6-1-02	CHANNELIZING DEVICES
TCS7-1-02	ADVANCE WARNING SIGNS
TCS8-1-00	CONSTRUCTION SIGNS
TCS9-1-01	CONSTRUCTION SIGNS
TCS14-1-00	CONSTRUCTION SIGNS
TCS19-1-01	CONSTRUCTION SIGNS

PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
LICENSED
7-6-26

INDEX & STANDARDS

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= NA	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.	BP	7/26
	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAS	7·26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Index.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 2 OF 31 SHEETS

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ROADWAY

ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
1	201(A)	CLEARING AND GRUBBING	(E-1, 2)	AC	1
2	202(A)	UNCLASSIFIED EXCAVATION	(E-3, 4)(R-1)(105)	CY	1,452
3	205(A)	TYPE A SALVAGED TOPSOIL		CY	32
4	220	SWPPP DOCUMENTATION AND MANAGEMENT	(E-6, 7, 8)	LSUM	1
5	230(A)	SOLID SLAB SODDING	(E-10, 11)	SY	224
6	303(A)	AGGREGATE BASE TYPE A	(S-1, 2)(104)	CY	1,237
7	310(B)	SUBGRADE METHOD B		SY	1,054
8	325	SEPARATOR FABRIC	(S-3)	SY	1,879
9	409	FABRIC REINFORCEMENT (TENSAR GP50)	(S-4)	SY	14,862
10	411(C)	SUPERPAVE, TYPE S4 (PG 64-22 OK)(INSOLUBLE)	(S-5, 6, 7, 8, 23)	TON	1,669
11	411(E)	SUPERPAVE, TYPE S6 (PG 64-22 OK)	(S-5, 6, 7, 8, 23)(G-1)	TON	838
12	412	COLD MILL PAVEMENT	(S-9, 22)	SY	4,503
13	609(B)	2'-2" COMB. CURB & GUTTER (6" BARRIER)	(S-12, 13, 15, 16)(101)	LF	669
14	610(B)	CONCRETE DRIVEWAY (6"-H.E.S.)	(S-12, 13, 16)	SY	106
15	612(A)	MANHOLE ADJUSTED TO GRADE (PUBLIC)	(S-12)(R-2)(G-1)(D-1, 2, 6)	EA	6
16	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	(R-1, 2, 3, 4, 5)	LSUM	1
17	619(B)	REMOVAL OF CONCRETE DRIVEWAY	(R-1, 2, 5)	SY	106
18	619(B)	REMOVAL OF CURB AND GUTTER	(R-1, 2, 5)	LF	669
19	641	MOBILIZATION	(G-2)(102, 103)	LSUM	1
20	642(B)	CONSTRUCTION STAKING LEVEL II	(G-3, 4)	EA	1
21	880(J)	CONSTRUCTION TRAFFIC CONTROL	(T-2, 5)(201, 202)	CD	75
22	COT 102	PROJECT SIGN (CITY OF TULSA)	(T-7)(204)	EA	2
23	COT 202	QUICK SET FLOWABLE FILL	(S-1)(G-1)(D-8)	CY	100
24	COT 327	SAFETY FENCE	(203)	LF	1,000
25	COT 334	CONSTRUCTION AS-BUILT		LSUM	1
26	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1
27	SPECIAL	TYPE I AC PATCH	(S-21)(G-1)(108)	CY	140
28	SPECIAL	OWNERS ALLOWANCE		EA	25,000
29	SPECIAL	URBAN RIGHT OF WAY RESTORATION	(G-5, 6, 7, 8, 9, 10)(106, 107)	EA	1

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.

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

PAY ITEMS & NOTES
(1 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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APPROVED:
CITY ENGINEER

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SHEET 3 OF 31 SHEETS

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EARTHWORK / EROSION CONTROL / SITE PREPARATION PAY ITEM NOTES (12/30/2025)

E-1 ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.

E-2 ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEANING AND CLEARING SHALL BE INCLUDED IN THE PRICE BID.

E-3 ANY ADDITIONAL EXCAVATION REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY TO VERIFY ANY ADDITIONAL QUANTITIES.

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

E-5 NOT USED.

E-6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE 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 PRICE BID FOR THIS ITEM.

E-7 EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:

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

ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.

E-8 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.

E-9 NOT USED.

E-10 ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE OF LIKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSED AREAS BEYOND THE ABOVE STATED LIMITS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESODDED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.

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

SURFACING / STRUCTURE PAY ITEM NOTES (12/30/2025)

S-1 QUICK SET FLOWABLE FILL MAY BE USED AT THE DISCRETION OF THE FIELD ENGINEER IN AREAS INACCESSIBLE TO TRADITIONAL COMPACTION EQUIPMENT. QUANTITY IS ESTIMATED AT 10% OF THE BASE MATERIAL FOR THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.

S-2 INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED STANDARD 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. OVERLAP IS REQUIRED AND INCLUDED IN THE PAY ITEM. 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.

SURFACING / STRUCTURE PAY ITEM NOTES (CONT.) (12/30/2025)

S-8 A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY.

NOTE S8 (50) TABLE

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

[1] USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALs BASED ON 20 YEARS.

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 NOT USED.

S-18 NOT USED.

S-19 NOT USED.

S-20 NOT USED.

S-21 THIS PAY ITEM INCLUDES THE FOLLOWING:

A. SAW CUTTING
B. REMOVAL OF THE EXISTING CONCRETE AND/OR ASPHALTIC CONCRETE ROADWAY (CY)
C. TYPE S3 ASPHALTIC CONCRETE OR PC CONCRETE COMPLETE AND IN PLACE PER DETAIL
D. SEALING OF EDGES AND TACK COAT

DOES NOT INCLUDE THE FOLLOWING:

A. UNCLASSIFIED EXCAVATION
B. SUBGRADE METHOD B (SY)
C. SEPARATOR FABRIC (SY)
D. AGGREGATE BASE (TYPE A)
E. ASPHALT CONCRETE LEVELING OR SURFACE COURSE

S-22 REMOVE AC PAVEMENT ON CONCRETE DRIVEWAY APRONS AND GUTTERS DURING EDGE MILLING AND COLD MILLING OPERATIONS.

S-23 REPLACE AC PAVEMENT IN DRIVEWAY GUTTER, AS NEEDED, FOR POSITIVE STORMWATER DRAINAGE AND SMOOTH DRIVEWAY TRANSITIONS.

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.

REMOVAL / ADJUSTMENT PAY ITEM NOTES (12/30/2025)

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. SANITARY MANHOLES NEED TO MEET COT SPEC 418.

R-3 PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK.

R-4 INCLUDES SAWING NOT INCLUDED IN OTHER ITEMS OF WORK.

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

R-6 NOT USED.

GENERAL PAY ITEM NOTES (12/30/2025)

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.

PROFESSIONAL ENGINEER
KRISTI ERICKSON
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OKLAHOMA
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OKIE 811
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PAY ITEMS & NOTES
(2 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= NA	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED: DESIGN MANAGER	HAS	7·26

APPROVED:
CITY ENGINEER
DATE: JULY 2026

FILE: 1400361_MZ6035_Pay Item-02.dgn
ATLAS PAGE NO.: 236, 237
SHEET 4 OF 31 SHEETS

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DRAINAGE PAY ITEM NOTES (03/02/2026)

D-1 THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS.752, 753, 754, 761, 762, 769A, 769B AND 775.

D-2 THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED. WORK TO ADJUST SANITARY SEWER MANHOLES SHALL MEET CITY OF TULSA SPEC. 418.

D-3 NOT USED.

D-4 NOT USED.

D-5 NOT USED.

D-6 ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.

D-7 NOT USED.

D-8 QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND STREET CURB INLETS AND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.

D-9 NOT USED.

D-10 NOT USED.

D-11 NOT USED.

D-12 NOT USED.

D-13 NOT USED.

D-14 NOT USED.

D-15 NOT USED.

D-16 NOT USED.

TRAFFIC PAY ITEM NOTES (12/30/2025)

T-1 NOT USED.

T-2 REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.

T-3 NOT USED.

T-4 NOT USED.

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

T-6 NOT USED.

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

201 ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.

202 CONTRACTOR SHALL INSTALL AND MAINTAIN INFORMATION SIGNS TO ADVISE PUBLIC THAT BUSINESSES ARE OPEN AND WHERE ACCESS POINTS TO THE BUSINESSES ARE LOCATED.

203 CONTRACTOR SHALL INSTALL AND MAINTAIN SAFETY FENCE ALONG THE EDGE OF OPEN CUTS WITHIN THE CONSTRUCTION ZONE. SAFETY FENCE SHALL BE AN OPEN MESH TYPE, HIGH-DENSITY PLASTIC MATERIAL, 48-INCHES IN HEIGHT, AND COLORED INTERNATIONAL SAFETY ORANGE. FENCE SHALL BE SUPPORTED BY FENCE POSTS SPACED AT NO MORE THAN 10 FEET. PAYMENT FOR SAFETY FENCE SHALL BE AT THE UNIT PRICE BID PER LINEAR FOOT BASED ON THE TOTAL FOOTAGE USED FOR THE DURATION OF THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING THE FENCE AS THE JOB SITE CHANGES.

204 REFER TO COT STANDARD 102 FOR DETAILS TO BE DETERMINED BY THE FIELD ENGINEER.

ROADWAY PAY ITEM NOTES - PROJECT SPECIFIC (07/06/2026)

101 COST OF SELECT BACKFILL AND COMPACTION, BEHIND THE CURB, SHALL BE INCLUDED IN PRICE BID FOR CURB AND GUTTER AS SHOWN ON THE TYPICAL SECTIONS.

102 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA.

103 SHALL INCLUDE ALL LABOR, EQUIPMENT, AND ASSOCIATED COSTS TO COMPLETE THE REQUIRED BID ITEM TO THE FULL EXTENT REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

104 QUANTITY SHALL INCLUDE 1,217 CY AS SHOWN ON THE SURFACING SUMMARY AND 20 CY AS SHOWN ON THE DRIVEWAY SUMMARY.

105 COST FOR REMOVAL OF ABANDONED UTILITY PIPE LINES THAT INTERFERE WITH CONSTRUCTION SHALL BE INCLUDED IN PRICE BID FOR UNCLASSIFIED EXCAVATION.

106 CONTRACTOR SHALL ENSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN URBAN RIGHT OF WAY RESTORATION. NO ADDITIONAL PAYMENT SHALL BE MADE.

107 COST OF ANY TEMPORARY FENCING AND POLES SHALL BE INCLUDED IN COST OF URBAN RIGHT OF WAY RESTORATION. NO ADDITIONAL PAYMENT SHALL BE MADE.

108 PATCH QUANTITIES AND LOCATIONS SHALL BE FIELD VERIFIED AND ADJUSTED AFTER MILLING OPERATIONS AT THE DISCRETION OF FIELD AND DESIGN ENGINEERING.

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

PAY ITEMS & NOTES
(3 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
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APPROVED:
CITY ENGINEER

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DATE: JULY 2026
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GENERAL CONSTRUCTION NOTES (03/02/2026)

1 ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINANCE #24616 AND THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.

2 THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.

3 PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.

4 THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.

5 THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK, TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS:

AT&T
PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP)
OKLAHOMA NATURAL GAS (ONG)
COX COMMUNICATIONS
MCI/VERIZON
EASYTEL COMMUNICATIONS
WELLSCO VALLOR TELECOM
CITY OF TULSA-WATER AND SEWER
CITY OF TULSA-TRAFFIC OPERATIONS

SEE TITLE SHEET FOR CONTACT INFORMATION.

6 THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.

7 THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.

8 THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.

9 THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.

10 CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT 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 MATERIAL 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.

GENERAL CONSTRUCTION NOTES (CONT.) (03/02/2026)

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 CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-9508 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

22 THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.

23 NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.

24 PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.

25 CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.

26 MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.

27 ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.

28 NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.

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 THE 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 DETERMINED 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 SHALL 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.

GENERAL CONSTRUCTION NOTES (CONT.) (03/02/2026)

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 AUGUST 8, 2023 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA 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 MATERIALS OR EQUIPMENT IN THE FLOODPLAIN.

44 CONTRACTOR SHALL COMPLETE THE INSTALLATION OF FINAL STABILIZATION MEASURES WITHIN 14 DAYS OF PROJECT COMPLETION. COMPLETE THE INSTALLATION OF FINAL STABILIZATION MEASURES WITHIN 7 DAYS OF PROJECT COMPLETION FOR PROJECTS GREATER THAN 40 ACRES, DISCHARGE TO AN APPROVED RECEIVING CHANNEL OR ARE WITHIN ONE (1) MILE OF AN IMPAIRED/TMDL WATERBODY.

45 CONSTRUCTION VEHICLE WASH WATERS ARE NOT TO BE DISCHARGED INTO CITY OF TULSA WATERS OR WATERS OF THE STATE.

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

PROFESSIONAL ENGINEER LICENSED KRISTI ERICKSON 25821 OKLAHOMA
7-6-26

GENERAL CONSTRUCTION NOTES
(1 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
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CITY ENGINEER
DATE: JULY 2026

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ATLAS PAGE NO.: 236, 237
SHEET 6 OF 31 SHEETS

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GENERAL CONSTRUCTION NOTES (CONT.) (07/06/2026)

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

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

BLASTING SHALL NOT BE ALLOWED.

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

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

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

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

THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

1) ANY PERMITS OR LICENSES REQUIRED FOR CONSTRUCTION WITH THE EXCEPTION OF THE WATERSHED DEVELOPMENT PERMIT, WHICH SHALL BE OBTAINED BY THE CITY.

2) PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION AND FOR REQUIRED INSPECTIONS.

3) DETERMINING THE EXACT LOCATION OF ANY UTILITIES. EXISTING UTILITIES TO REMAIN IN SERVICE AT ALL TIMES. SERVICE DISRUPTION TO BE AT CONTRACTOR'S RISK AND EXPENSE.

THE GEOTECHNICAL REPORTS WERE PREPARED BY TERRACON FOR THIS PROJECT.

TERRACON PROJECT NO.	DATE	DESCRIPTION
04225085	APRIL 17, 2023	Non-Arterial Street Improvements Maintenance Zone 6035

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

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

GENERAL CONSTRUCTION NOTES - STORMWATER QUALITY (03/10/2026)

TO CONTROL EROSION AND SEDIMENTS FROM STORMWATER RUNOFF, FINAL STABILIZATION OF DISTURBED AREAS AND SLOPES SHALL BE ACHIEVED BY ESTABLISHING PERMANENT VEGETATIVE COVER OR INSTALLING APPROVED PERMANENT SURFACE MATERIALS OR STRUCTURES. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF PROJECT COMPLETION. FOR PROJECTS EXCEEDING 40 ACRES OR LOCATED WITHIN ONE (1) MILE OF AN IMPAIRED/TMDL WATERBODY, THE CONTRACTOR SHALL COMPLETE FINAL SOIL STABILIZATION MEASURES WITHIN 7 DAYS OF PROJECT COMPLETION.

ALL WORK SHALL BE CONDUCTED IN A MANNER THAT COMPLIES WITH THE CITY'S MUNICIPAL STORMWATER DISCHARGE PERMIT (MS4), POLLUTION ORDINANCE, AND STORMWATER MANAGEMENT PROGRAM (SMWP). CONTRACTORS WILL PREVENT THE DISCHARGE OF POLLUTANTS INTO THE CITY'S STORM SEWER SYSTEM OR WATERS OF THE STATE TO THE MAXIMUM EXTENT PRACTICABLE. CONSTRUCTION VEHICLE WASH WATERS ARE NOT TO BE DISCHARGED INTO CITY OF TULSA WATERS OR WATERS OF THE STATE.

GENERAL CONSTRUCTION NOTES - TRAFFIC OPERATIONS (02/19/2026)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POSTS PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATIONS 608 TRAFFIC SIGNS.

ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.

PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF ODOT STANDARDS AND SPECIFICATIONS FOR PAVEMENT MARKINGS. BUT SHALL BE PROVIDED USING TULSA STANDARD PAVEMENT MARKING LAYOUTS WHEN APPLICABLE. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

GENERAL CONSTRUCTION NOTES
(2 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= NA	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAS	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_General Notes-02.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 7 OF 31 SHEETS

P:\140_CivInf\1400361 COT MZ6035 Bridge Rehab\21DesignWorking\CIVL\06Microstation\Okla\Sheets\1400361_MZ6035_General Notes-02.dgn 11:39:32 AM 7/1/2026

SUMMARY OF SURFACING

PLAN NO.	ALIGNMENT	STATION TO STATION	UNCLASSIFIED EXCAVATION	TYPE A SALVAGED TOP SOIL	SOLID SLAB SODDING	AGGREGATE BASE TYPE A	SUBGRADE METHOD B	SEPARATOR FABRIC	FABRIC REINFORCEMENT (TENSAR GP50)	SUPERPAVE, TYPE S4 (PG 64-22 OK) (INSOLUBLE)	SUPERPAVE, TYPE S6 (PG 64-22 OK)	COLD MILL PAVEMENT	2'-2" COMB. CURB & GUTTER (6" BARRIER)	TYPE I AC PATCH
			202(A)	205(A)	230(A)	303(A)	310(B)	325	409	411(C)	411(E)	412	609(B)	SPECIAL
			CY	CY	SY	CY	SY	SY	SY	TON	TON	SY	LF	CY
BASE BID														
1	E. 22nd ST.	11+06.51 - 16+40.80	26	0	0	16	47	51	1,376	155	78	481	0	8
2	E. 22nd PL.	17+38.36 - 22+28.11	0	0	0	0	0	0	1,254	141	71	435	0	0
3	E. 23rd ST.	200+98.05 - 207+50.00	304	4	26	222	368	488	1,806	203	102	596	77	57
4	E. 23rd ST.	207+50.00 - 211+58.07	0	0	0	0	0	0	1,043	117	59	363	0	0
5	S. 115th E. AVE.	310+44.57 - 314+44.93	79	2	12	66	57	101	1,267	142	71	396	36	8
6	S. 116th E. AVE.	410+00.00 - 415+04.29	167	5	38	158	40	164	1,387	156	78	461	112	0
7	E. 29th ST.	510+65.23 - 516+00.00	811	21	148	716	429	950	2,179	244	122	629	444	46
7	S. 115th E. AVE.	516+00.00 - 517+00.00	8	0	0	5	15	17	366	41	21	90	0	3
8	S. 115th E. AVE.	517+00.00 - 520+00.00	13	0	0	8	22	24	1,099	123	62	268	0	4
8	E. 28th PL.	520+00.00 - 523+75.00	38	0	0	23	67	74	1,281	144	72	336	0	12
8	S. 116th E. AVE.	523+75.00 - 524+00.00	0	0	0	0	0	0	77	9	5	23	0	0
9	S. 116th E. AVE.	524+00.00 - 528+63.74	5	0	0	3	9	10	1,727	194	97	425	0	2
		TOTALS:	1,452	32	224	1,217	1,054	1,879	14,862	1,669	838	4,503	669	140

SUMMARY OF REMOVALS

PLAN NO.	ALIGNMENT	STATION TO STATION	CONCRETE DRIVEWAY	CURB & GUTTER
			619(B)	619(B)
			SY	LF
1	E. 22nd ST.	11+06.51 - 16+40.80	0	0
2	E. 22nd PL.	17+38.36 - 22+28.11	76	0
3	E. 23rd ST.	200+98.05 - 207+50.00	7	77
4	E. 23rd ST.	207+50.00 - 211+58.07	0	0
5	S. 115th E. AVE.	310+44.57 - 314+44.93	23	36
6	S. 116th E. AVE.	410+00.00 - 415+04.29	0	112
7	E. 29th ST.	510+65.23 - 516+00.00	0	444
7	S. 115th E. AVE.	516+00.00 - 517+00.00	0	0
8	S. 115th E. AVE.	517+00.00 - 520+00.00	0	0
8	E. 28th PL.	520+00.00 - 523+75.00	0	0
8	S. 116th E. AVE.	523+75.00 - 524+00.00	0	0
9	S. 116th E. AVE.	524+00.00 - 528+63.74	0	0
		TOTALS:	106	669

KRISTI ERICKSON
LICENSED PROFESSIONAL ENGINEER
25821
OKLAHOMA
7-6-26

SUMMARIES
(1 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= NA	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAS	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Summaries-01.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 8 OF 31 SHEETS

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DRIVEWAY SUMMARY

Driveway No.	Rehabilitation Plan	Station	Side	AGGREGATE BASE TYPE A 303(A) CY	CONCRETE DRIVEWAY (6" -H.E.S.) 610(B) SY	Existing Description	Comment
E. 22nd ST.							
001	1	10+62	RT	0	0	CONC	
002	1	11+38	RT	0	0	CONC	
003	1	11+99	RT	0	0	CONC	
004	1	12+62	RT	0	0	CONC	
005	1	14+23	LT	0	0	CONC	
006	1	14+50	RT	0	0	CONC	
E. 22nd PL.							
007	2	19+03	RT	7	37	CONC	
008	2	19+19	LT	0	0	CONC	
009	2	19+73	RT	0	0	CONC	
010	2	19+84	LT	7	39	CONC	
011	2	21+82	LT	0	0	CONC	
012	2	22+11	LT	0	0	CONC	
E. 23rd ST.							
013	3	201+48	RT	0	0	CONC	
014	3	201+90	LT	0	0	CONC	
015	3	202+63	LT	0	0	CONC	
016	3	203+50	RT	0	0	CONC	
017	3	204+51	LT	2	7	CONC	
018	3	205+52	RT	0	0	CONC	
019	3	207+21	RT	0	0	CONC	
020	4	209+08	RT	0	0	CONC	
021	4	211+35	RT	0	0	CONC	
S. 115th E. AVE.							
022	5	311+20	RT	0	0	CONC	
023	5	311+86	LT	4	23	CONC	
024	5	312+59	LT	0	0	CONC	
S. 116th E. AVE.							
025	6	410+24	LT	0	0	CONC	
026	6	410+54	RT	0	0	CONC	
027	6	411+32	RT	0	0	CONC	
028	6	412+12	RT	0	0	CONC	
029	6	412+91	RT	0	0	CONC	
030	6	413+08	LT	0	0	CONC	
031	6	413+70	RT	0	0	CONC	
032	6	414+49	RT	0	0	CONC	
E. 29th ST.							
033	7	510+99	RT	0	0	CONC	
034	7	512+74	RT	0	0	APC	
035	7	512+84	LT	0	0	CONC	
036	7	514+04	RT	0	0	CONC	
037	7	515+07	LT	0	0	ASPH	
S. 115th E. AVE.							
038	7	516+26	RT	0	0	ASPH	
039	7	516+60	LT	0	0	ASPH	
040	7	516+84	RT	0	0	ASPH	
041	8	519+35	LT	0	0	ASPH	
042	8	519+67	RT	0	0	ASPH	
E. 28th PL.							
043	8	520+63	LT	0	0	ASPH	
044	8	523+38	LT	0	0	ASPH	
S. 116th E. AVE.							
045	8, 9	524+04	LT	0	0	ASPH	
046	9	524+44	LT	0	0	ASPH	
047	9	524+51	RT	0	0	ASPH	
048	9	526+04	LT	0	0	ASPH	
049	9	526+67	LT	0	0	ASPH	
050	9	527+43	RT	0	0	ASPH	
			TOTALS:	20	106		

Know what's below 811 before you dig.

PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA LICENSED

7-6-26

SUMMARIES
(2 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
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REVISION	BY	DATE

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	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.	BMP	7/26
	LEAD ENGR.	DJ	7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED DESIGN MANAGER	HBS	7-26

APPROVED:

CITY ENGINEER

DATE: JULY 2026

FILE: 1400361_MZ6035_Summaries-02.dgn

ATLAS PAGE NO.: 236, 237

SHEET 9 OF 31 SHEETS

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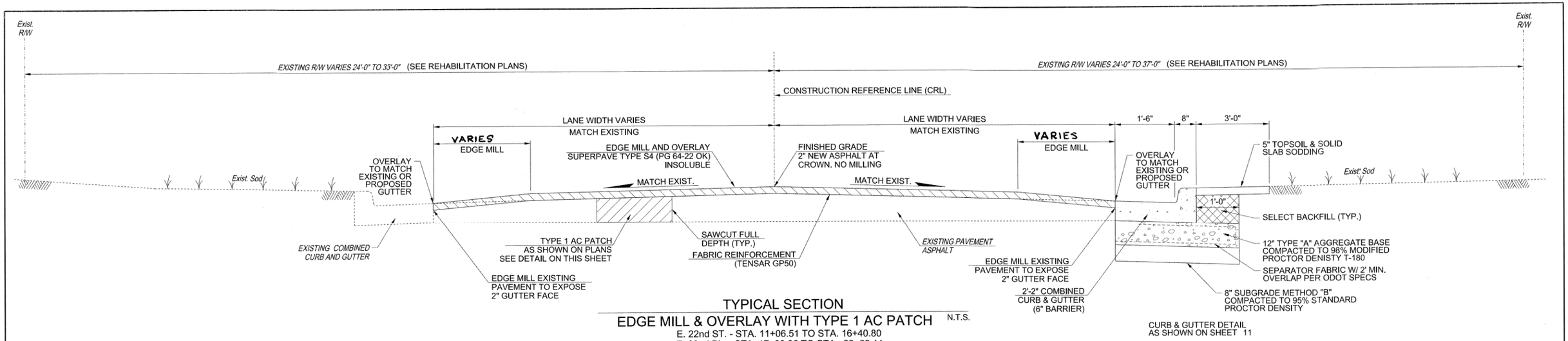


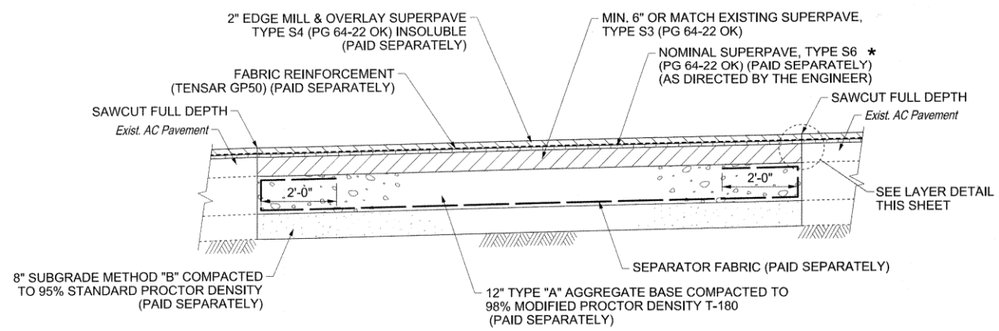
TYPICAL SECTION

EDGE MILL & OVERLAY WITH TYPE 1 AC PATCH

N.T.S.

E. 22nd ST. - STA. 11+06.51 TO STA. 16+40.80
E. 22nd PL. - STA. 17+38.36 TO STA. 22+28.11
E. 23rd ST. - STA. 200+98.05 TO STA. 211+58.07
S. 115th E. AVE. - STA. 310+44.57 TO STA. 314+44.93
S. 116th E. AVE. - STA. 410+00.00 TO STA. 415+04.29
E. 29th ST. - STA. 510+65.23 TO STA. 516+00.00
S. 115th E. AVE. - STA. 516+00.00 TO STA. 520+00.00
E. 28th PL. - STA. 520+00.00 TO STA. 523+75.00
S. 116th E. AVE - STA. 523+75.00 TO STA. 528+63.74

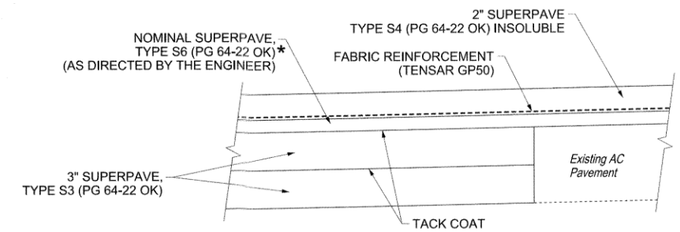
NOTE: PATCH QUANTITIES AND LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FIELD AND DESIGN ENGINEERING.



TYPE 1 AC PATCH DETAIL

NON-ARTERIAL

N.T.S.



LAYER DETAIL

AC PAVEMENT

N.T.S.

* 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.

PATCH NOTES:

PATCH INCLUDES:
A. SAW CUTTING
B. REMOVAL OF THE EXISTING CONCRETE AND/OR ASPHALTIC CONCRETE ROADWAY (CY)
C. ASPHALT CONCRETE (SUPERPAVE, TYPE S3) COMPLETE AND IN PLACE PER DETAIL
D. SEALING OF EDGES AND TACK COAT

PATCH DOES NOT INCLUDE:
A. UNCLASSIFIED EXCAVATION (CY)
B. SUBGRADE METHOD B (SY)
C. SEPARATOR FABRIC (SY)
D. AGGREGATE BASE (TYPE A)
E. ASPHALT CONCRETE LEVELING COURSE SUPERPAVE, TYPE S6 (PG 64-22 OK) (TON)
F. FABRIC REINFORCEMENT (SY)
G. ASPHALT CONCRETE SURFACE COURSE SUPERPAVE, TYPE S4 (PG 64-22 OK) (TON)

GENERAL NOTES:

CONSTRUCTION OF CURB SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD DRAWING NO. 726.

TO BE BACKFILLED & COMPACTED AS PART OF FINISHING OPERATIONS. COST TO BE INCLUDED IN PRICE BID FOR 609(B), 2'-2" COMBINED CURB & GUTTER (6" BARRIER)

OKIE811 Know what's below 811 before you dig.

LICENSED PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA
7-6-26

TYPICAL SECTION

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

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	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
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	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER		7-26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_Typical01.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 10 OF 31 SHEETS

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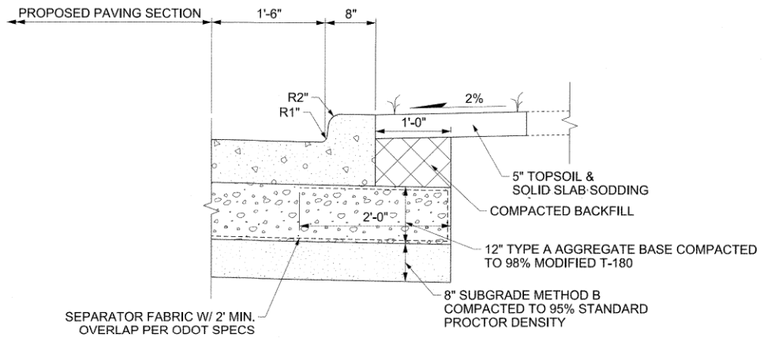
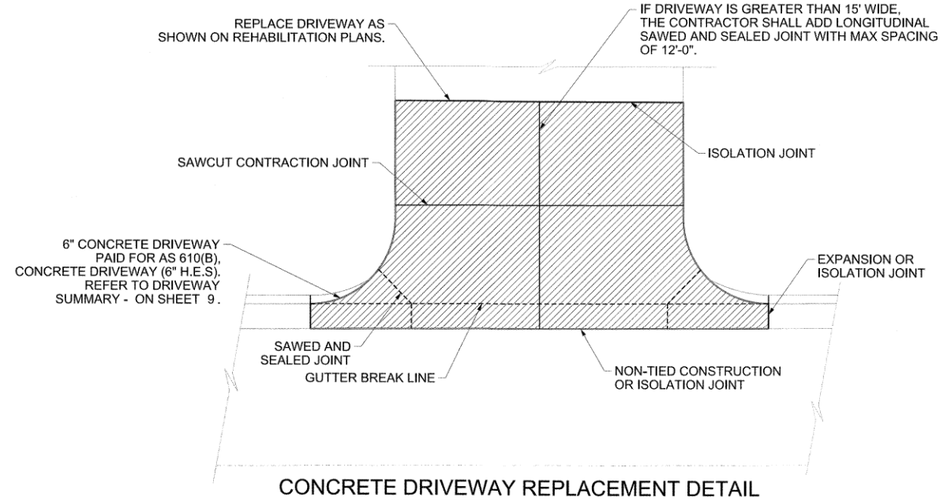


2'-2" COMBINED CURB AND GUTTER DETAIL

N.T.S.



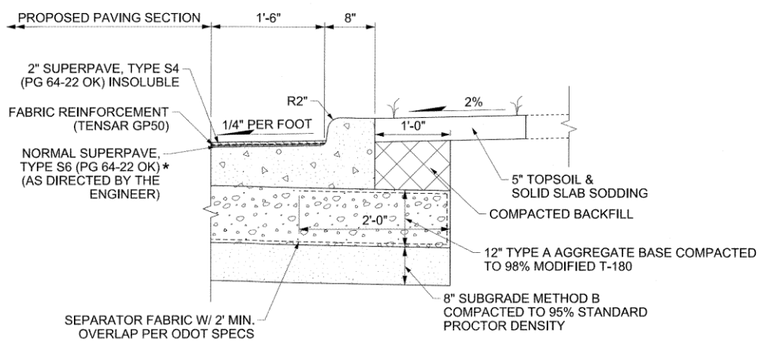
CONCRETE DRIVEWAY REPLACEMENT DETAIL

ROADWAY DRIVEWAY REPLACEMENT

N.T.S.

DRIVE NOTES:

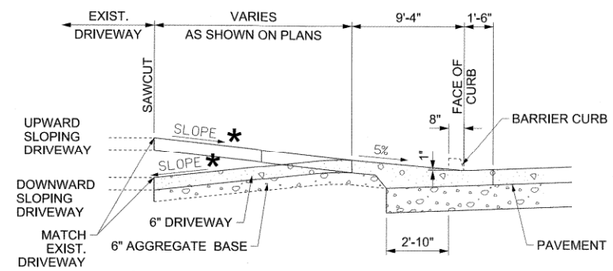
1. THERE WILL BE NO DEDUCTION OF PAYMENT FOR CONCRETE CURB AND/OR INTEGRAL CURB FOR THE LENGTH OF THE CURB BLOCKOUT.
2. EXPANSION JOINT MATERIAL, SEALERS AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF DRIVEWAY SURFACING.
3. JOINT SEALERS SHALL MEET THE REQUIREMENTS OF THE 2019 ODOT STANDARD SPECIFICATIONS SECTIONS 701.08B AND 701.08E.
4. CONSTRUCTION OF JOINTS SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD DRAWING NO. 726 EXCEPT AS NOTED.
5. DRIVE SHALL BE REPLACED TO EXISTING JOINT OR AS NOTED.
6. DRIVEWAYS SHALL RISE ABOVE THE GUTTERLINE TO A MINIMUM MATCHING THE ADJACENT CURB HEIGHT PRIOR TO A BREAKOVER AWAY FROM THE ROADWAY.
7. CONSTRUCTION OF DRIVEWAY SHALL BE IN ACCORDANCE WITH CITY OF TULSA STANDARD 701.



2'-2" COMBINED FALL-AWAY CURB AND GUTTER DETAIL

N.T.S.

* 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.



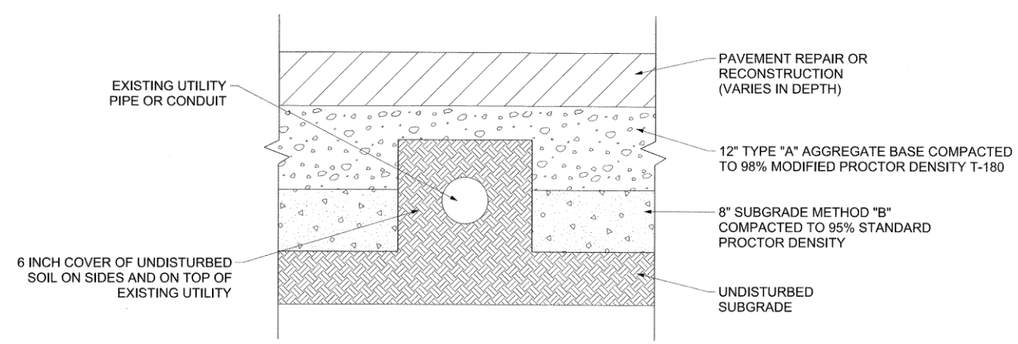
* MATCH EXISTING SLOPE

DRIVEWAY DETAIL

SECTION A-A

N.T.S.

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



TYPICAL SECTION
PROTECT IN PLACE EXISTING UTILITY LINE

N.T.S.

NOTE:
QUICK SET FLOWABLE FILL MAY BE REQUIRED ABOVE OR ALONGSIDE EXISTING UTILITY LINES TO PROVIDE ADDITIONAL COVER/PROTECTION. THIS DETERMINATION WILL BE MADE ON A CASE BY CASE BASIS IN THE FIELD AND COORDINATED BETWEEN FIELD ENGINEER, UTILITY COORDINATION, AND THE CONTRACTOR.

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

LICENSED PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA
7-6-26

MISCELLANEOUS DETAILS

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
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REVISION	BY	DATE

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	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED: DESIGN MANAGER	HAS	7-26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_Misc Details-01.dgn

DATE: JULY 2026

ATLAS PAGE NO.: 236, 237

SHEET 11 OF 31 SHEETS

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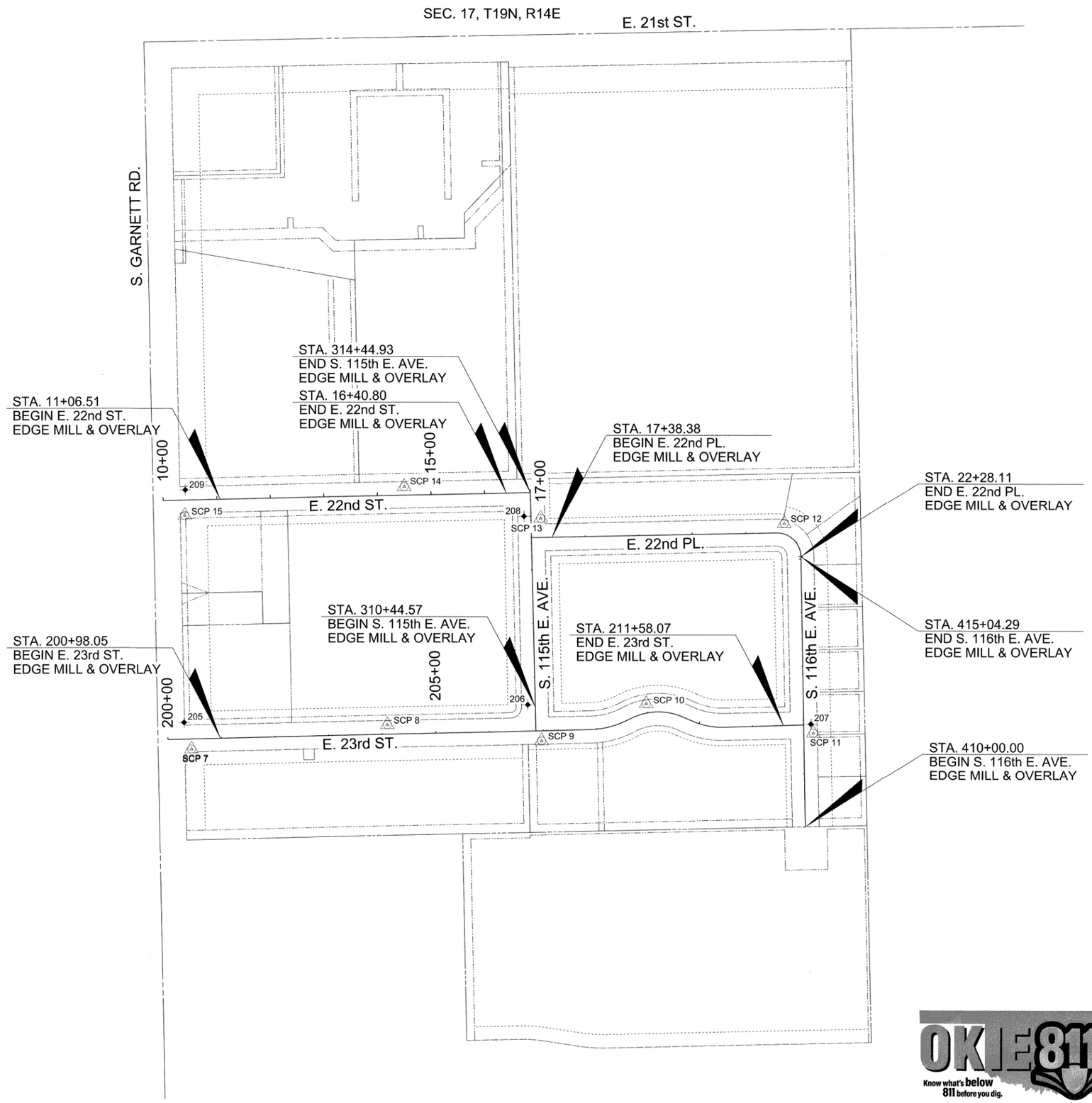

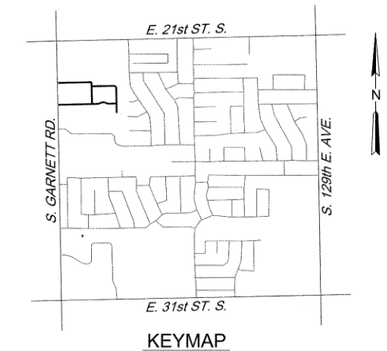

KEYMAP

LEGEND

- HORIZONTAL & VERTICAL CONTROL POINT
- BENCH MARK SYMBOL

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

Signature

07-01-2026

Date

REGISTERED PROFESSIONAL LAND SURVEYOR
RUSSELL D. LAMBILLOTTE
L.S. 1555
OKLAHOMA

N

100' 50' 0 100'

SCALE: 1"=100'

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

REVISION	BY	DATE

SURVEY DATA PLAN
(1 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

SAACS SURVEYING
5 WEST 42nd ST
SAND SPRINGS, OK 74063
PHONE: (918) 245-0456
FAX: (918) 245-4723
C.A. NO. 7767 EXP. 06/30/27

PLAN SCALE 1"= 100'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.	BJP	7/26
	LEAD ENGR.		7/26
VERTICAL: 1"=NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HBP	7-26

APPROVED:

CITY ENGINEER

FILE: 1400361_MZ6035_Survey Data-01.dgn

DATE: JULY 2026

ATLAS PAGE NO.: 236, 237

SHEET 12 OF 31 SHEETS

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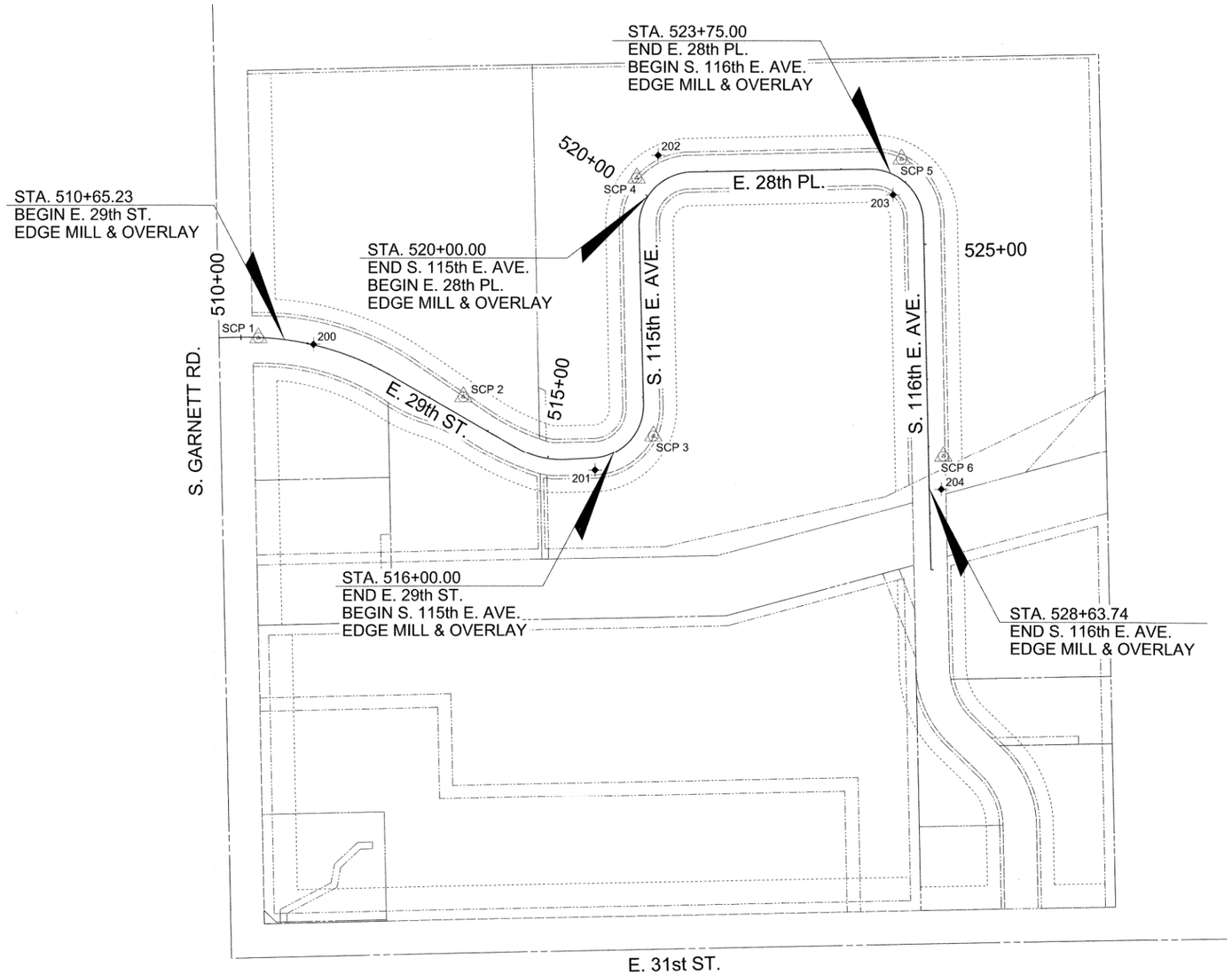
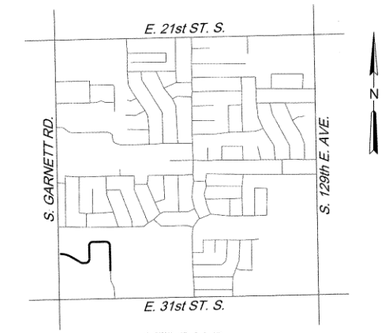
SEC. 17, T19N, R14E





KEYMAP

LEGEND

HORIZONTAL & VERTICAL CONTROL POINT

BENCH MARK SYMBOL

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

Signature

07-01-2026

Date

REGISTERED PROFESSIONAL LAND SURVEYOR
RUSSELL D. LAMBILLOTTE
L.S. 1555
OKLAHOMA

N

100' 50' 0 100'

SCALE: 1"=100'

SURVEY DATA PLAN
(2 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

SAACS SURVEYING
5 WEST 42nd ST
SAND SPRINGS, OK 74063
PHONE: (918) 245-9456
FAX: (918) 245-8723
C.A. NO. 7767 EXP. 06/30/27

REVISION	BY	DATE

PLAN SCALE 1"= 100'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26.
VERTICAL: 1"=NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAS	7-26

APPROVED:

CITY ENGINEER

FILE: 14003361_MZ6035_Survey Data-02.dgn

DATE: JULY 2026

ATLAS PAGE NO.: 236, 237

SHEET 13 OF 31 SHEETS

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

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Offsite Horizontal and Vertical Control				
Point #	Description	Northing	Easting	Elevation
218	ADS T218 OFFSET -- 5/8 in. REBAR-2 in. ALUMINUM CAP - FLUSH - STAMPED 'T218 OFFSET'. SET N.W. OF THE INTERSECTION OF 31ST ST. AND HWY. 169 SOUTHBOUND OFF-RAMP.	414399.4430	2600036.3800	650.264
219	ADS 19 -- 5/8 in. REBAR-1 1/2 in. ALUMINUM CAP - FLUSH - SET IN CONCRETE-STAMPED '19', SET S.W. OF THE INTERSECTION OF 41ST ST. AND GARNETT RD.	409006.3890	2603086.8720	668.455

Onsite Horizontal and Vertical Control				
Point #	Description	Northing	Easting	Elevation
1	SCP 1 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415275.6960	2603162.4830	667.385
2	SCP 2 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415187.7840	2603468.4910	667.657
3	SCP 3 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415129.8940	2603751.7430	666.790
4	SCP 4 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415512.2640	2603726.2060	672.509
5	SCP 5 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415540.4800	2604120.7860	671.520
6	SCP 6 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	415098.8830	2604183.9870	666.644
7	SCP 7 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418315.9600	2603101.0640	681.053
8	SCP 8 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418360.4870	2603466.2700	684.198
9	SCP 9 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418330.3720	2603753.6080	682.748
10	SCP 10 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418399.2970	2603948.7630	682.281
11	SCP 11 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418344.9470	2604260.8030	686.304
12	SCP 12 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418735.1170	2604206.1490	687.484
13	SCP 13 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418744.8750	2603751.5420	684.810
14	SCP 14 -- 3/8in Rebar w/ CA 2252 plastic cap stamped 'ISAACS CONTROL'	418804.7130	2603497.3500	686.769
15	SCP 15 -- MAG Nail	418751.2420	2603087.8460	684.566

Onsite Vertical Control				
Point #	Description	Northing	Easting	Elevation
201	BM 201 -- Cut X on top of Concrete storm structure	415078.1350	2603664.8020	665.767
208	BM 208 -- Cut X on top of curb	418748.5080	2603720.4440	684.629
200	BM 200 -- Cut X on top of curb @ west end of second center island	415265.9650	2603244.6580	668.914
202	BM 202 -- Cut X on top of curb at the corner of first parking spot	415546.0300	2603758.1590	672.898
203	BM 203 -- Cut X on top of curb @ south end of parking lot	415487.2380	2604108.0640	670.846
204	BM 204 -- Cut X on top of curb @ north end of bridge - east side of road	415049.6820	2604181.0920	667.222
205	BM 205 -- Cut X on top of curb	418365.4580	2603087.2090	682.056
206	BM 206 -- Cut X on top of concrete storm structure	418397.4750	2603727.6980	682.756
207	BM 207 -- Cut X on top of concrete storm structure	418361.5230	2604256.4320	685.544
209	BM 209 -- Cut box on top of concrete at N.E. corner of storm sewer junction box	418799.3730	2603088.7490	684.306

Horizontal Control:

(A) The bearings and coordinates used for this survey are based on the Oklahoma State Plane Coordinate System, North Zone - NAD 83 DATUM
(B) Linear Unit is U.S. Survey Foot
(C) Accuracy - 3rd Order or better

Vertical Controls:

(A) Level Datum is NAVD 1988
(B) Accuracy - 3rd Order or better
(C) Permanent Benchmark: (ADS T218 & 19)

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

Signature

07-01-2026
Date

REGISTERED PROFESSIONAL LAND SURVEYOR
RUSSELL D. LAMBILLOTTE
L.S. 1555
OKLAHOMA

SURVEY DATA PLAN
(3 OF 3)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
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TULSA, OK 74119
(918)-599-4155

ISAACS SURVEYING
5 WEST 42nd ST
SAND SPRINGS, OK 74063
PHONE: (918) 245-0456
FAX: (918) 245-8723
C.A. NO. 7767 EXP. 06/30/27

REVISION	BY	DATE

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	LEAD ENGR.		7/26
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VERTICAL: 1"= NA	RECOMMENDED: DESIGN MANAGER	HBI	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Survey Data-03.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 14 OF 31 SHEETS

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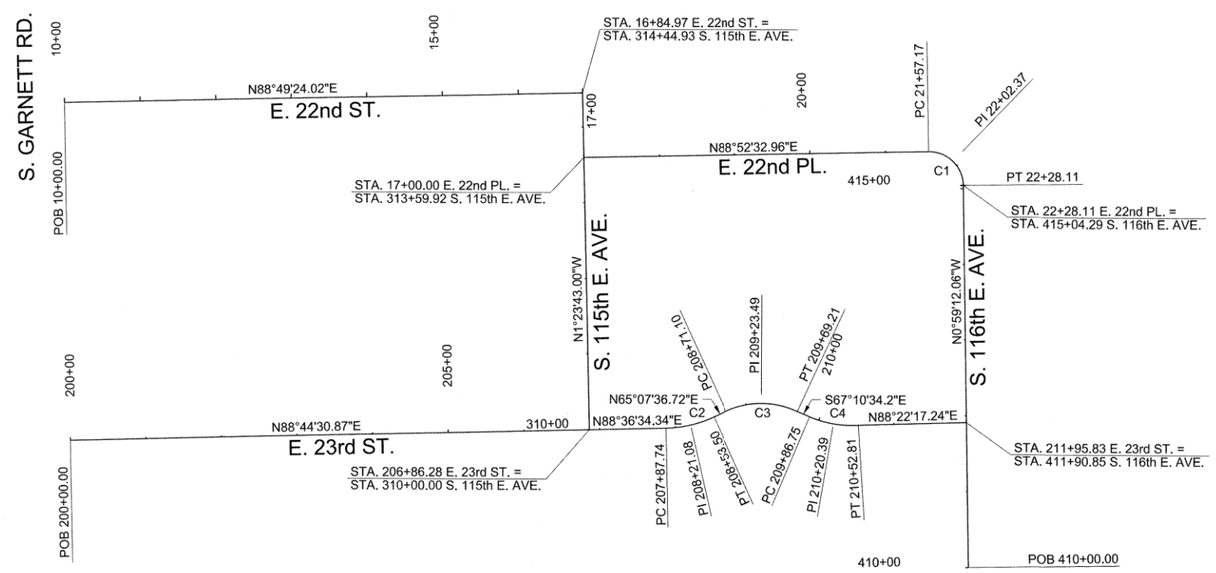
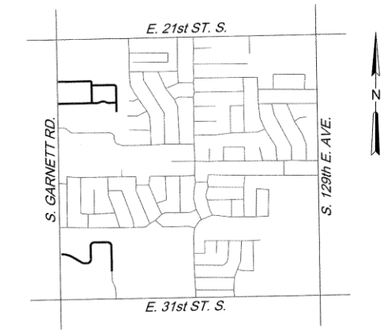
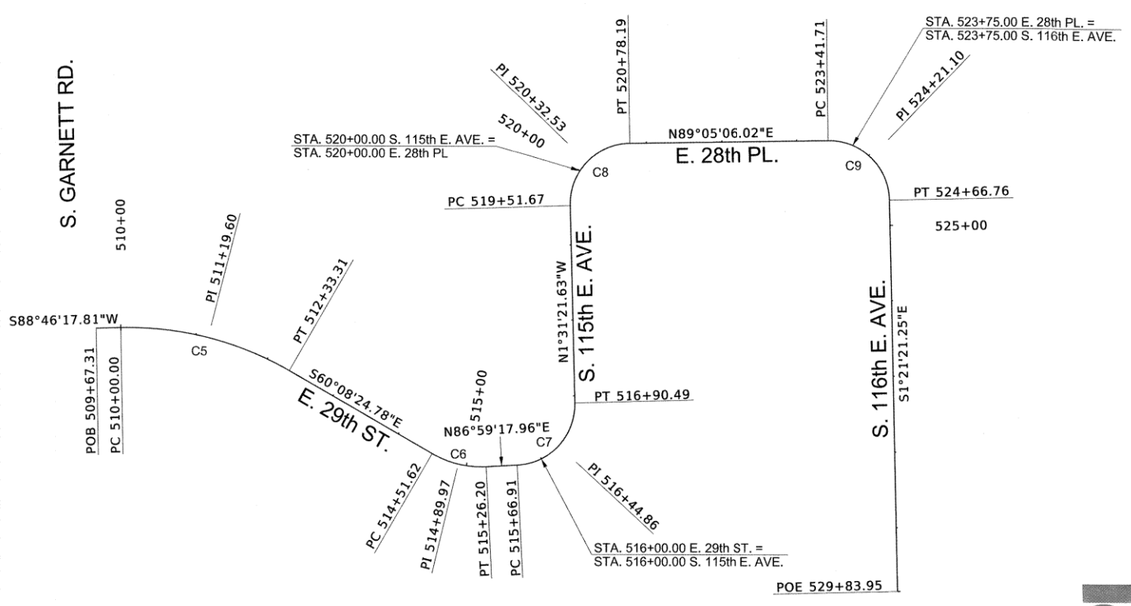
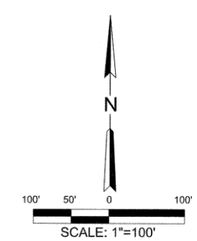




KEYMAP





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

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

GEOMETRIC DATA
(1 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED: DESIGN MANAGER	HBL	7-26
FILE: 1400361_MZ6035_Geo Data-01.dgn			
ATLAS PAGE NO.: 236, 237			

APPROVED:
CITY ENGINEER
DATE: JULY 2026
SHEET 15 OF 31 SHEETS

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CRL E. 22nd ST.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	10+00.00	2603047.37	418779.70						
	POE	16+84.97	2603732.20	418793.77						

CRL E. 22nd PL.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	17+00.00	2603734.34	418708.78						
C1	PC	21+57.17	2604191.42	418717.75	90°08'14.98" RT	127°03'50.01"	45.09	45.20	70.94	18.75
	PI	22+02.37	2604236.61	418718.64						
	PT	22+28.11	2604237.39	418673.44						
	POE	22+28.11	2604237.39	418673.44						

CRL E. 23rd ST.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	200+00.00	2603056.92	418333.90						
	PI	206+86.28	2603743.03	418348.97						
C2	PC	207+87.74	2603844.46	418351.43	23°23'46.98" LT	35°34'39.43"	161.04	33.35	65.76	3.42
	PI	208+21.08	2603877.79	418352.24						
	PT	208+53.50	2603908.07	418366.22						
C3	PC	208+71.10	2603924.04	418373.62	49°43'32.79" RT	50°41'06.65"	113.04	52.38	98.11	11.55
	PI	209+23.49	2603971.56	418395.65						
	PT	209+69.21	2604019.09	418373.64						
C4	PC	209+86.75	2604035.27	418366.83	26°34'42.84" LT	40°14'08.80"	142.40	33.63	66.06	3.92
	PI	210+20.39	2604066.27	418353.79						
	PT	210+52.81	2604099.83	418355.99						
	POE	211+95.83	2604242.79	418360.05						

CRL S. 115th E. AVE.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	310+00.00	2603743.03	418348.97						
	POE	314+44.93	2603732.20	418793.77						

CRL S. 116th E. AVE.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	410+00.00	2604246.07	418169.23						
	POE	415+04.29	2604237.39	418673.44						

CRL E. 29th ST.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
	POB	509+67.31	2603103.82	415275.91						
C5	PC	510+00.00	2603136.50	415276.61	31°05'17.41" RT	13°19'28.56"	430.00	119.61	233.31	16.32
	PI	511+19.60	2603256.08	415279.17						
	PT	512+33.31	2603359.81	415219.62						
C6	PC	514+51.62	2603549.13	415110.93	32°52'17.26" LT	44°04'25.24"	130.00	38.35	74.58	5.54
	PI	514+89.97	2603582.39	415091.84						
	PT	515+26.20	2603620.69	415093.85						
C7	PC	515+66.91	2603661.34	415095.99	88°30'39.59" LT	71°37'11.01"	80.00	77.95	123.58	31.70
	POE	516+00.00	2603693.09	415104.42						
	PI	*516+44.86*	*2603739.18*	*415100.09*						
	PT	*516+90.49*	*2603737.11*	*415178.01*						

CRL S. 115th E. AVE.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
C7	*PC*	*515+66.91*	*2603661.34*	*415095.99*	88°30'39.59" LT	71°37'11.01"	80.00	77.95	123.58	31.70
	POB	516+00.00	2603693.09	415104.42						
	PI	516+44.86	2603739.18	415100.09						
	PT	516+90.49	2603737.11	415178.01						
C8	PC	519+51.67	2603730.17	415439.09	90°36'27.66" RT	71°37'11.01"	80.00	80.85	126.51	33.74
	PI	520+32.53	2603728.02	415519.92						
	POE	520+00.00	2603743.11	415484.89						
	PT	*520+78.19*	*2603808.86*	*415521.21*						

CRL E. 28th PL.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
C8	*PC*	*519+51.67*	*2603730.17*	*415439.09*	90°36'27.66" RT	71°37'11.01"	80.00	80.85	126.51	33.74
	POB	520+00.00	2603743.11	415484.89						
	PI	520+32.53	2603728.02	415519.92						
	PT	520+78.19	2603808.86	415521.21						
C9	PC	523+41.71	2604072.36	415525.42	89°33'32.72" RT	71°37'11.01"	80.00	79.39	125.05	32.70
	POE	523+75.00	2604104.79	415519.11						
	PI	*524+21.10*	*2604151.73*	*415526.69*						
	PT	*524+66.76*	*2604153.61*	*415447.32*						

CRL S. 116th E. AVE.

CURVE NO	STATION		X (EASTING) (feet)	Y (NORTHING) (feet)	CURVE DATA DELTA	DEGREE	RADIUS (feet)	TANGENT (feet)	ARC LENGTH (feet)	EXTERNAL (feet)
C9	*PC*	*523+41.71*	*2604072.36*	*415525.42*	89°33'32.72" RT	71°37'11.01"	80.00	79.39	125.05	32.70
	POB	523+75.00	2604104.79	415519.11						
	PI	524+21.10	2604151.73	415526.69						
	PT	524+66.76	2604153.61	415447.32						
	POE	529+83.95	2604165.85	414930.28						

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

PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

GEOMETRIC DATA
(2 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
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VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED: DESIGN MANAGER	HAS	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Geo Data-02.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 16 OF 31 SHEETS

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STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS: RESIDENTIAL STREETS WITHIN THE LIMITS OF E. 21st ST. & E. 31st ST. AND S. GARNETT RD. & S. 121st EAST AVE.

PROJECT DESCRIPTION: NON-ARTERIAL STREET REHABILITATION

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

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

SOIL TYPE: LEAN CLAY, FAT CLAY

TOTAL AREA OF THE CONSTRUCTION SITE: 5.86 AC

ESTIMATED AREA TO BE DISTURBED: EX. PAVEMENT=4.17 AC EX. GRASS=1.69 AC

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 5.86 AC

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 5.86 AC

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.74

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36°07'47"N 95°50'55"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: PEARY CREEK & BROOKHOLLOW CREEK

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303(d) IMPAIRED WATERS: YES ☐ NO ☒

IF YES, LIST IMPAIRMENT:

LOCATED IN A TMDL: YES ☐ NO ☒

LAKE THUNDERBIRD TMDL: YES ☐ NO ☒

MS4 ENTITY YES ☒ NO ☐

IF YES, LOCATION: 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.

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
- ___ HYDROMULCH / HYDROSEED

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

STRUCTURAL PRACTICES:

- X STABILIZED CONSTRUCTION EXIT
- X 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
- X TEMPORARY SEDIMENT FILTERS
- X TEMPORARY SEDIMENT REMOVAL
- ___ RIP RAP
- ___ INLET PROTECTION
- ___ TEMPORARY BRUSH SEDIMENT BARRIERS
- ___ SANDBAG BERMS
- ___ TEMPORARY STREAM CROSSINGS
- ___ REVETMENT MATTRESS
- ___ COMPOST FILTER SOCKS
- ___ EROSION CONTROL MATS AND BLANKETS

OFFSITE VEHICLE TRACKING:

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

NOTES:

* USE CITY OF TULSA STANDARD 126, CONSTRUCTION ENTRANCE

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

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

WASTE MATERIALS:

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

HAZARDOUS MATERIALS:

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

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT SHOULD OBTAIN A SEPARATE STORMWATER AUTHORIZATION AND 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
- 221 STORM WATER POLLUTION PREVENTION
- TEMPORARY SEDIMENT CONTROL

IN ADDITION:

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

ADDITIONAL PERMITS REQUIRED FROM OKLAHOMA WATER RESOURCES BOARD

LICENSED PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA
7-6-26

STORMWATER MANAGEMENT PLAN

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= NA	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED: PROJECT MANAGER	HBJ	7-26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_SMP.dgn

ATLAS PAGE NO.: 236, 237

DATE: JULY 2026

SHEET 17 OF 31 SHEETS

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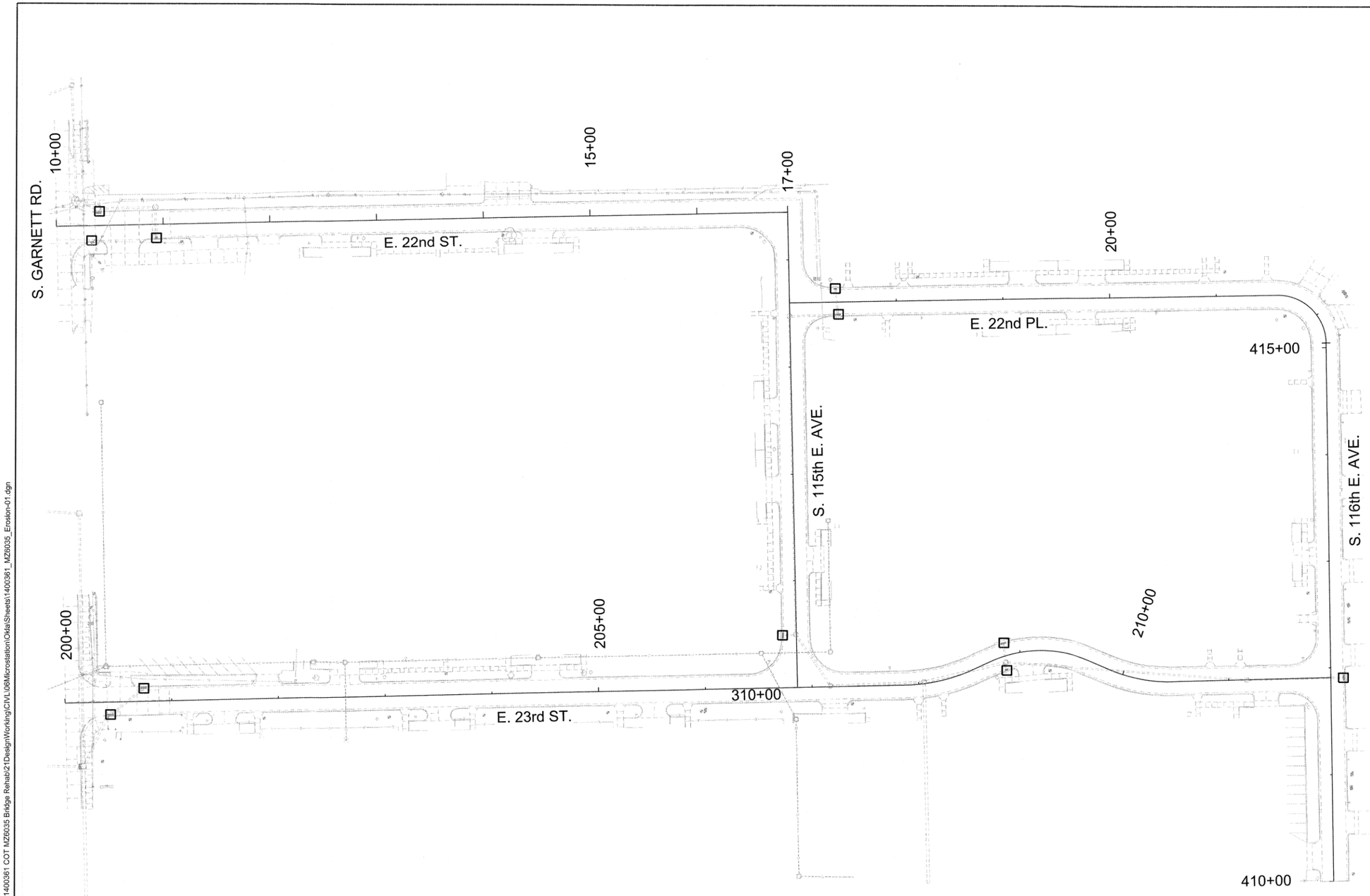
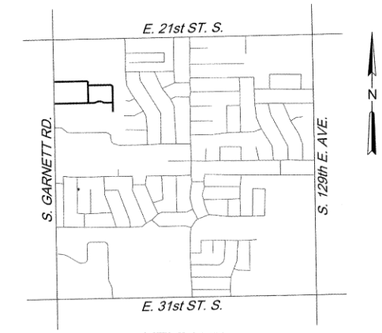
REVISED 2-18-2026





KEYMAP

LEGEND:

☐ TEMPORARY SEDIMENT FILTER

NOTES:

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

N

50' 25' 0 50'

SCALE: 1"=50'

PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

EROSION CONTROL PLAN
(1 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= 50'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.	BHP	7/26
	LEAD ENGR.		7/26
	FIELD MGR.	TEM	7/26
VERTICAL: 1"= NA	RECOMMENDED DESIGN MANAGER	HAS	7-26
FILE: 1400361_MZ6035_Erosion-01.dgn			
ATLAS PAGE NO.: 236, 237			

APPROVED:

CITY ENGINEER

DATE: JULY 2026

SHEET 18 OF 31 SHEETS

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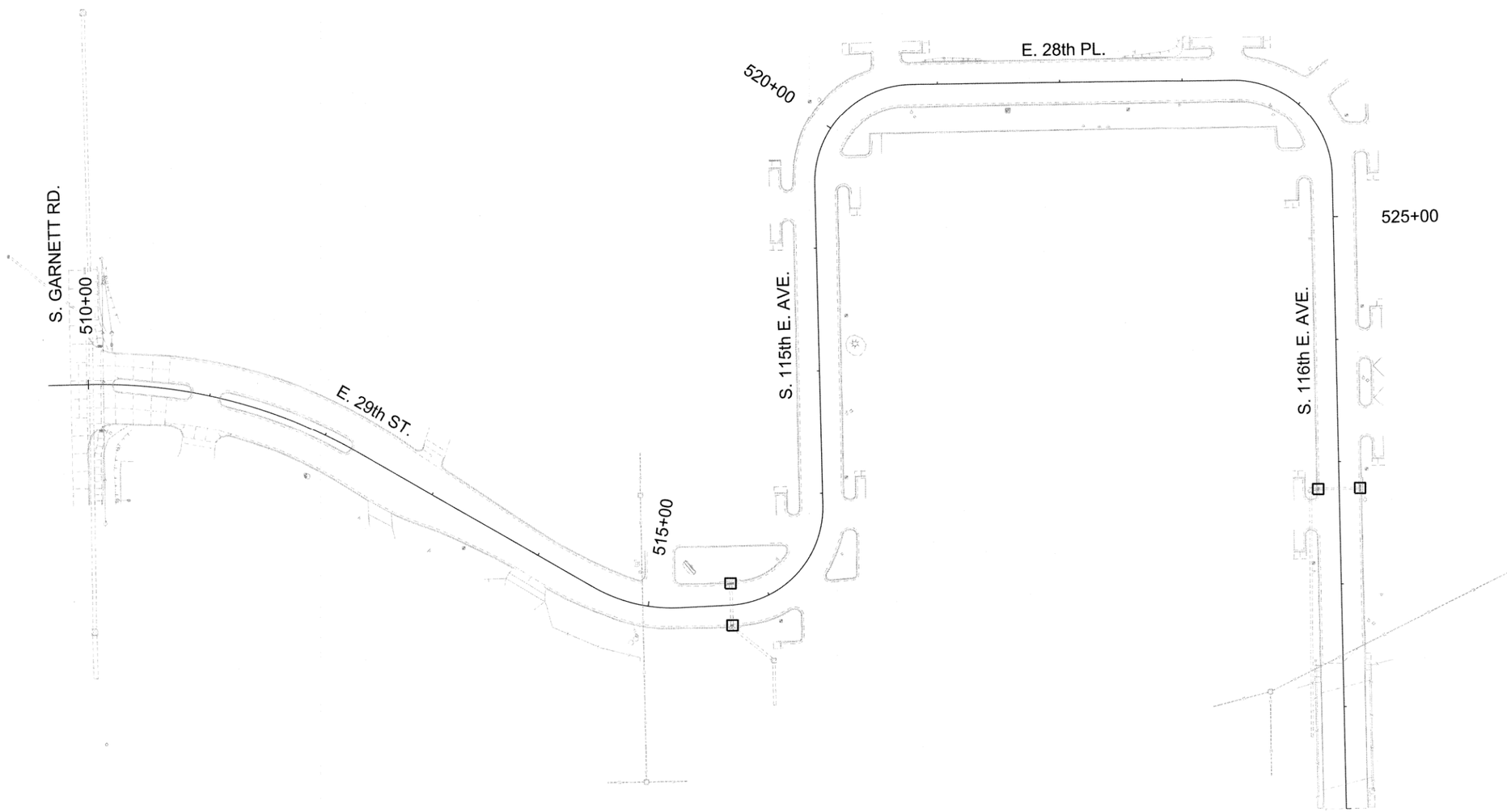

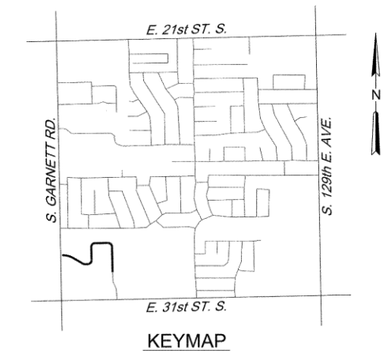

KEYMAP

LEGEND:

□ TEMPORARY SEDIMENT FILTER

NOTES:

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

N

50' 25' 0 50'

SCALE: 1"=50'

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA

7-6-26

EROSION CONTROL PLAN
(2 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= 50'	DRAWN	ES	7/26	APPROVED:
	DESIGNED	KLE	7/26	
	SURVEY	RDL	7/26	
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26	
	LEAD ENGR.		7/26	
	FIELD MGR.		7/26	
VERTICAL: 1"= NA	RECOMMENDED DESIGN MANAGER	HBS	7-26	CITY ENGINEER
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ATLAS PAGE NO.: 236, 237				SHEET 19 OF 31 SHEETS

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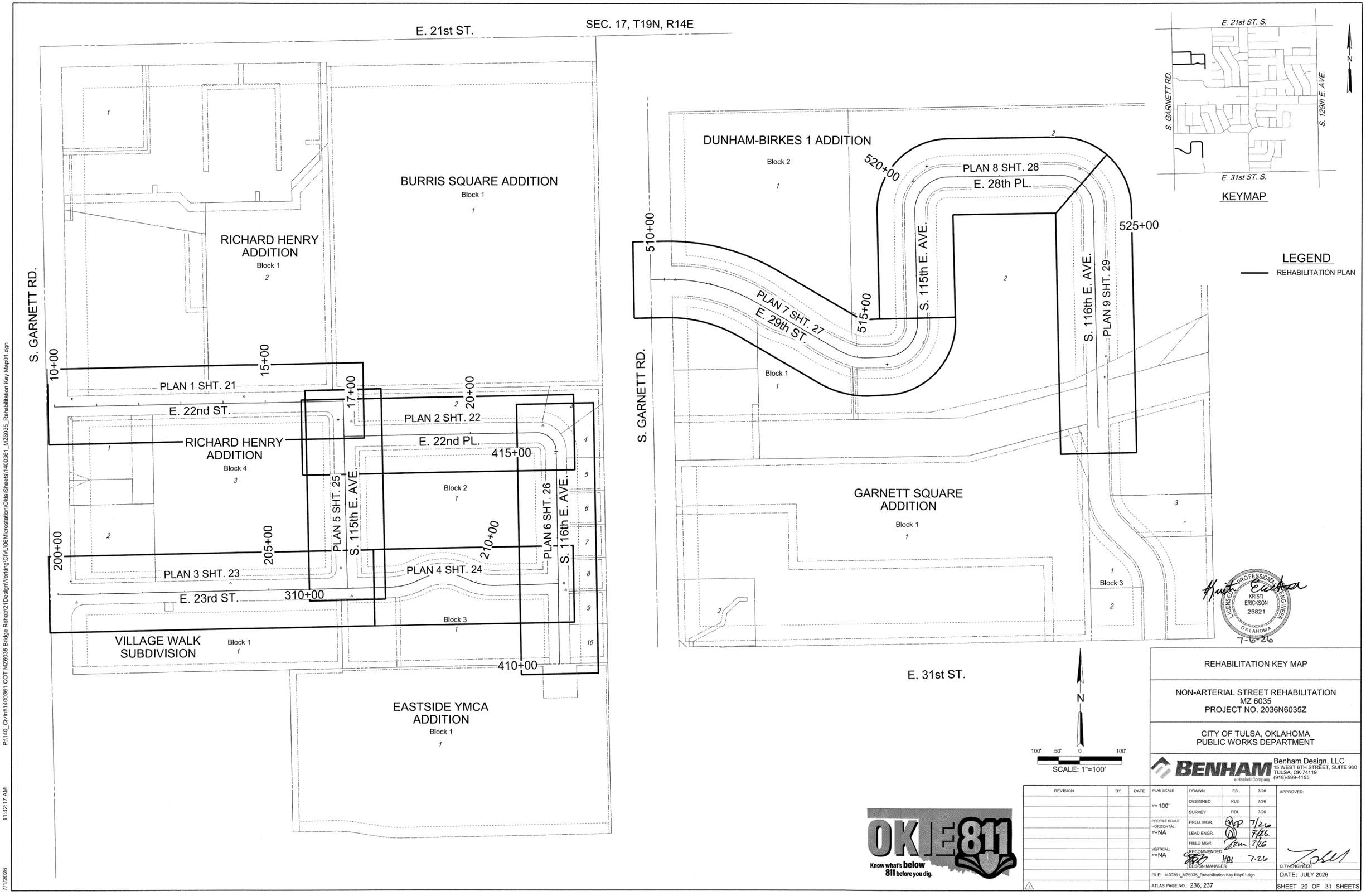

REHABILITATION KEY MAP

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 100'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"=NA	RECOMMENDED DESIGN MANAGER	HAL	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Rehabilitation Key Map01.dgn
ATLAS PAGE NO.: 236, 237

DATE: JULY 2026

SHEET 20 OF 31 SHEETS

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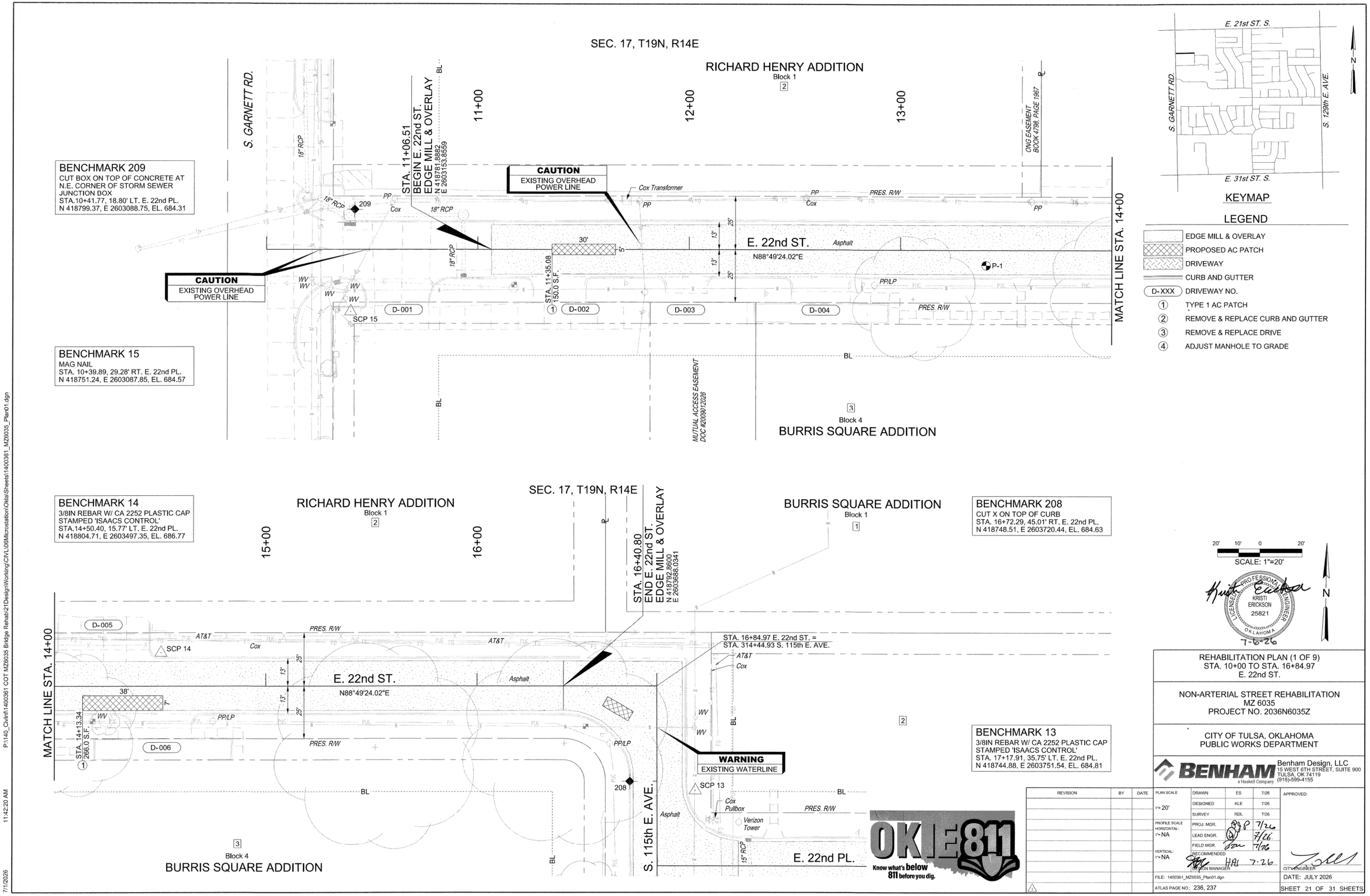

REHABILITATION PLAN (1 OF 9)
STA. 10+00 TO STA. 16+84.97
E. 22nd ST.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
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	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"=NA	RECOMMENDED: DESIGN MANAGER	HAI	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Plan01.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 21 OF 31 SHEETS

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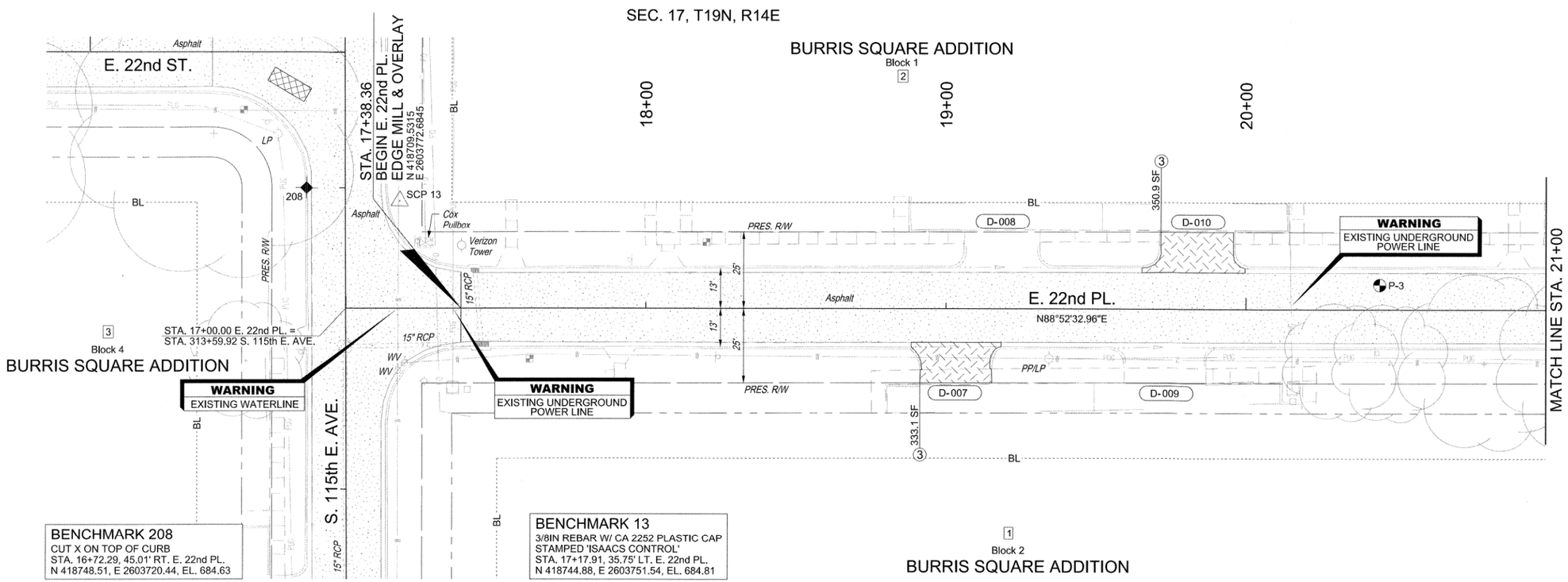
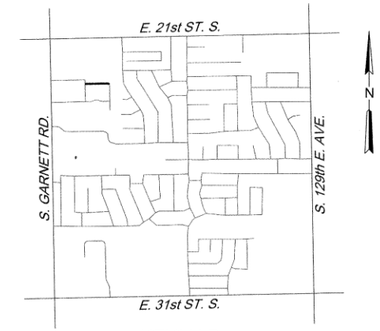
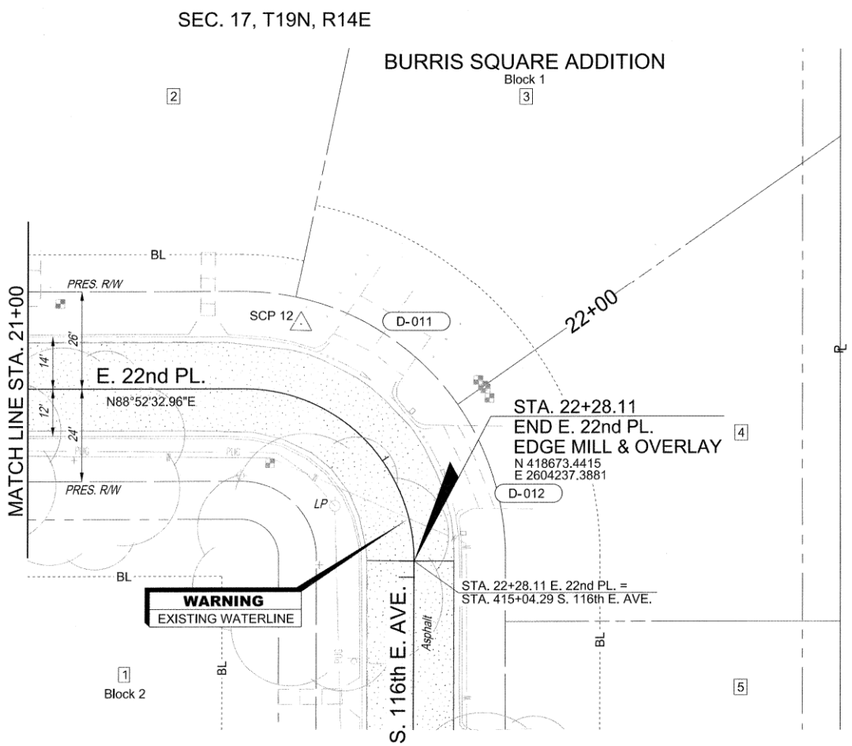




KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE



BENCHMARK 12
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 21+67.89, 18.88' LT. E. 22nd PL.
N 418735.12, E 2604206.15, EL. 687.48

20' 10' 0 20'
SCALE: 1"=20'

N

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

REHABILITATION PLAN (2 OF 9)
STA. 17+00 TO STA. 22+28.11
E. 22nd PL.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED: DESIGN MANAGER	HPI	7-26
FILE: 1400361_MZ6035_Plan02.dgn			
ATLAS PAGE NO.: 236, 237			

APPROVED:
CITY ENGINEER
DATE: JULY 2026
SHEET 22 OF 31 SHEETS

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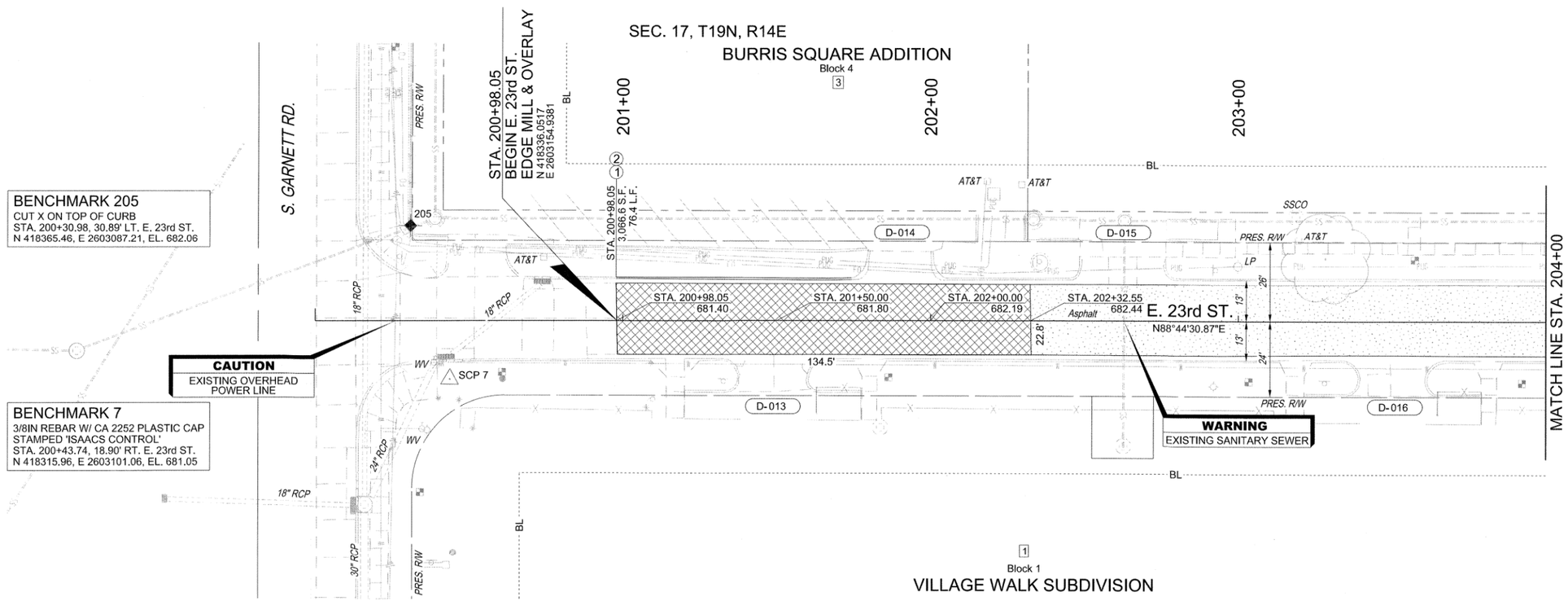
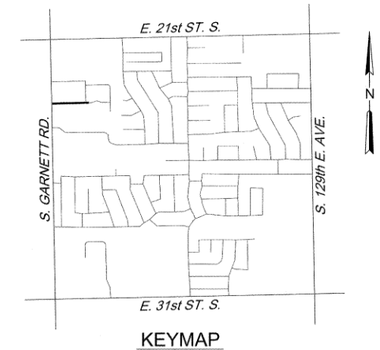
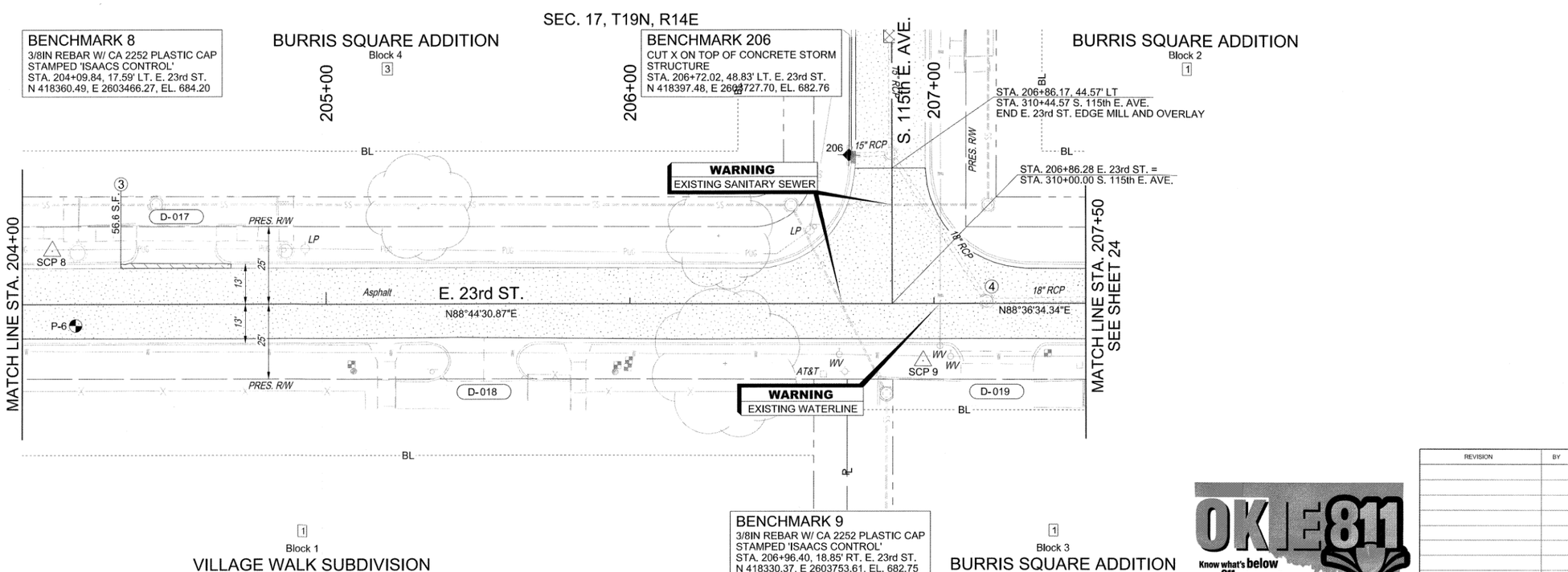




KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE



20' 10' 0 20'

SCALE: 1"=20'

N

KRISTI ERICKSON 25821 LICENSED PROFESSIONAL ENGINEER OKLAHOMA

7-6-26

REHABILITATION PLAN (3 OF 9)
STA. 200+00 TO STA. 207+50.00
E. 23rd ST.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company

Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED: DESIGN MANAGER	HAI	7-26

APPROVED:

CITY ENGINEER

DATE: JULY 2026

FILE: 1400361_MZ6035_Plan03.dgn

ATLAS PAGE NO.: 236, 237

SHEET 23 OF 31 SHEETS

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

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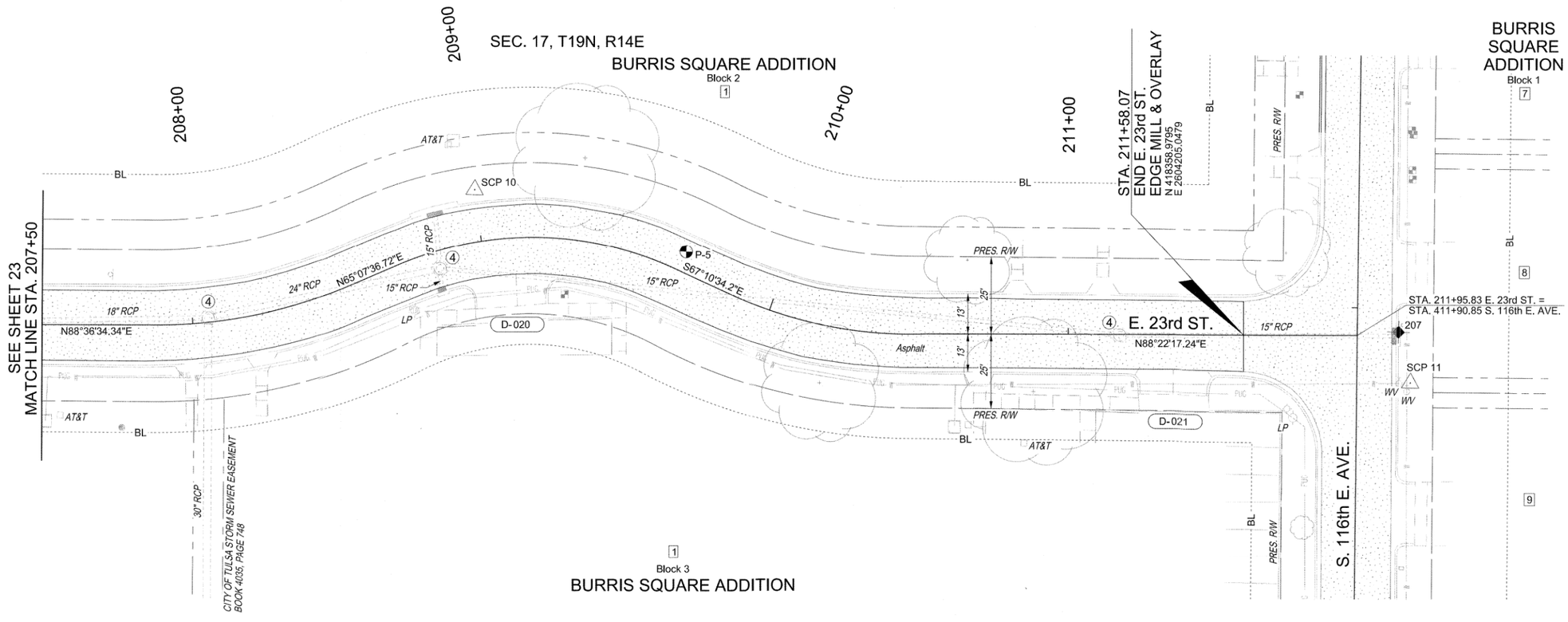

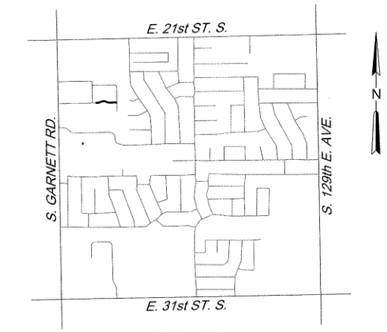

KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE

BENCHMARK 10
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 209+00.27, 17.20' LT. E. 23rd ST.
N 418399.30, E 2603948.76, EL. 682.28

BENCHMARK 11
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 411+75.44, 17.75' RT. S. 116th E. AVE.
N 418344.95, E 2604260.80, EL. 686.30

BENCHMARK 207
CUT X ON TOP OF CONCRETE STORM
STRUCTURE
STA. 411+92.09, 13.67' RT. S. 116th E. AVE.
N 418361.52, E 2604256.43, EL. 685.54

20' 10' 0 20'
SCALE: 1"=20'

N

PROFESSIONAL ENGINEER
LICENSED
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

REHABILITATION PLAN (4 OF 9)
STA. 207+50 TO STA. 211+95.83
E. 23rd ST.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM
a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"=20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"=NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAS	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Plan04.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 24 OF 31 SHEETS

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

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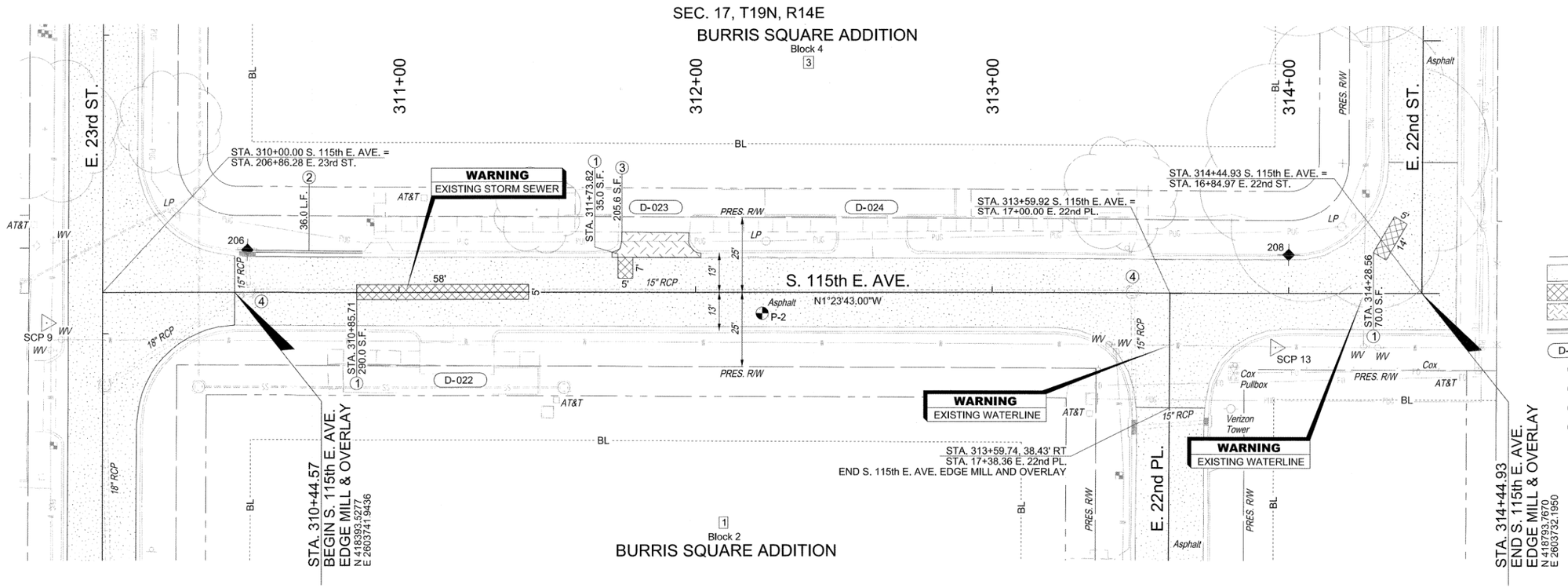
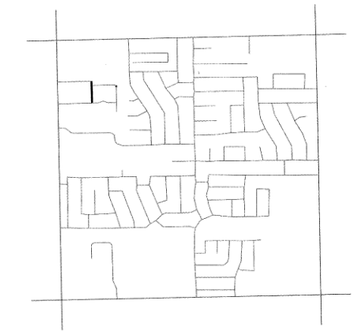




LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE

BENCHMARK 9
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 206+96.40, 18.85' RT. E. 23rd ST.
N 418330.37, E 2603753.61, EL. 682.75

BENCHMARK 206
CUT X ON TOP OF CONCRETE STORM
STRUCTURE
STA. 206+72.02, 48.83' LT. E. 23rd ST.
N 418397.48, E 2603727.70, EL. 682.76

BENCHMARK 208
CUT X ON TOP OF CURB
STA. 16+72.29, 45.01' RT. E. 22nd PL.
N 418748.51, E 2603720.44, EL. 684.63

BENCHMARK 13
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 17+17.91, 35.75' LT. E. 22nd PL.
N 418744.88, E 2603751.54, EL. 684.81

N

20' 10' 0 20'

SCALE: 1"=20'

PROFESSIONAL ENGINEER
LICENSED
KRISTI ERICKSON
25821
OKLAHOMA

7-6-26

REHABILITATION PLAN (5 OF 9)
STA. 310+00 TO STA. 314+44.93
S. 115th E. AVE.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

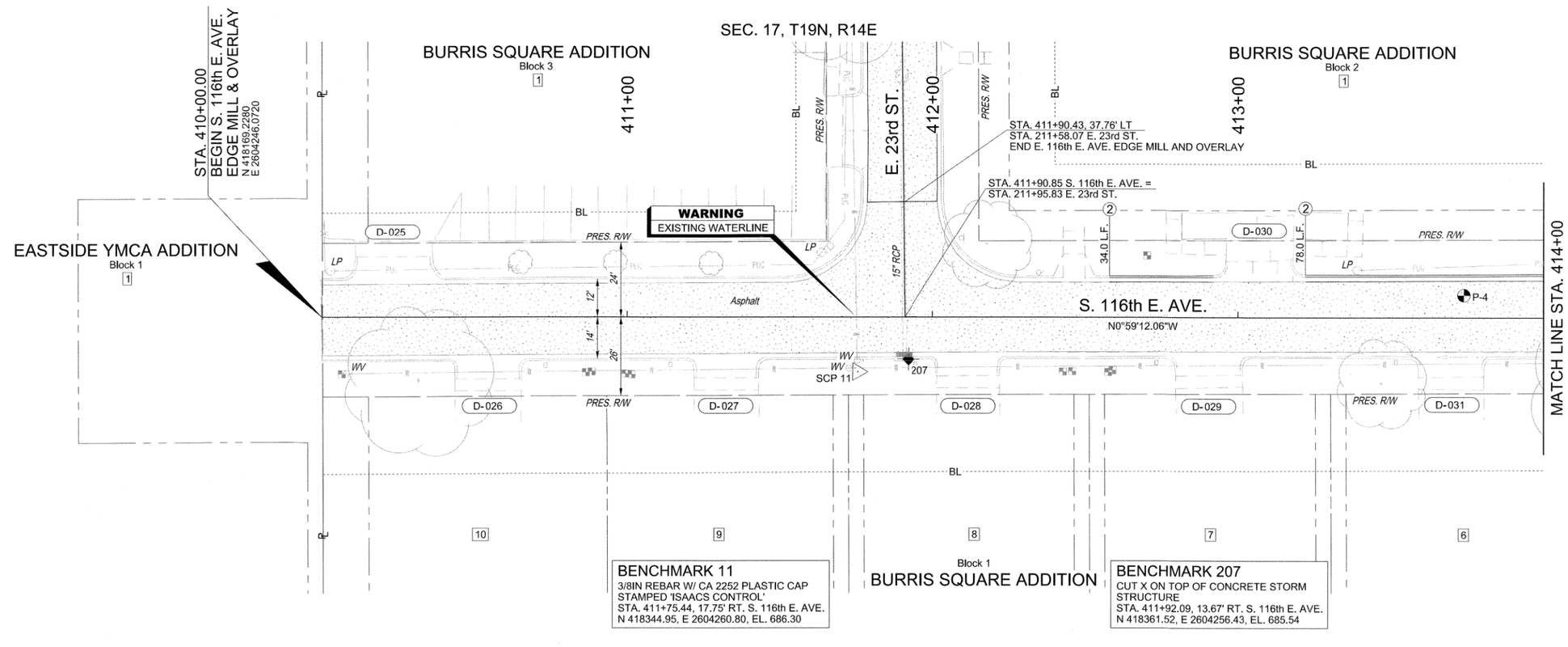
REVISION	BY	DATE

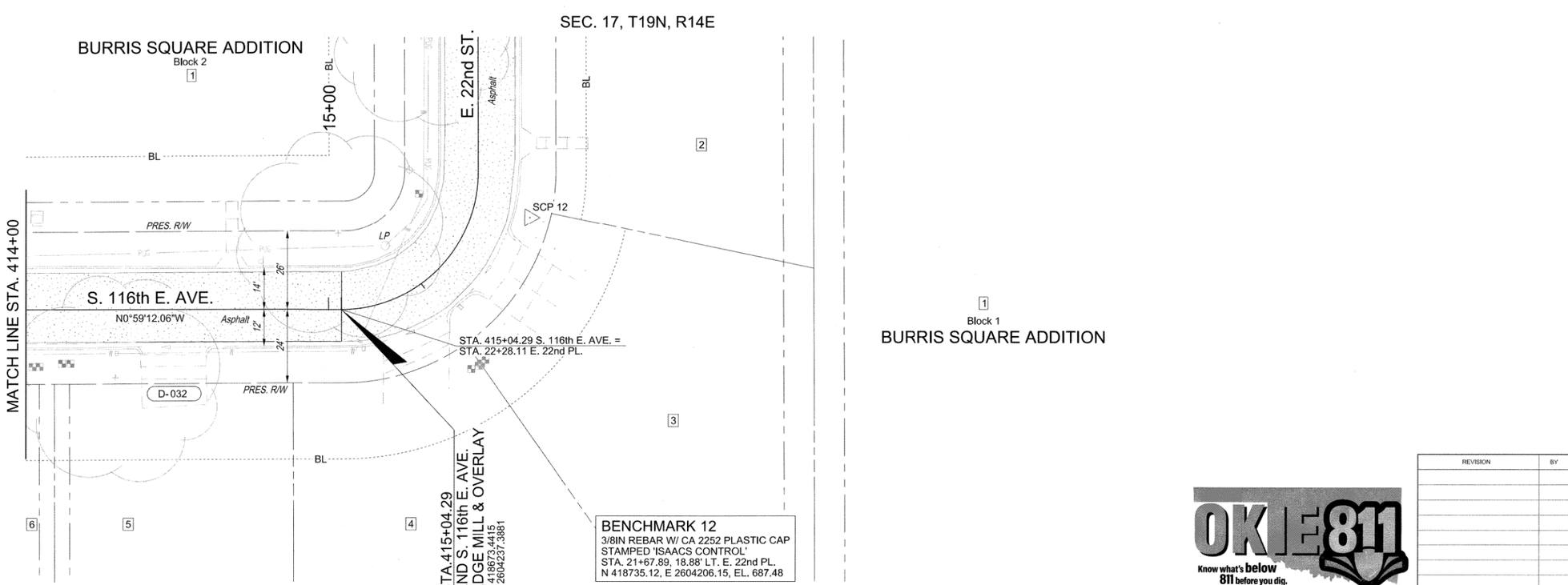
PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"= NA	FIELD MGR.		7/26
	RECOMMENDED DESIGN MANAGER	HAK	7-26

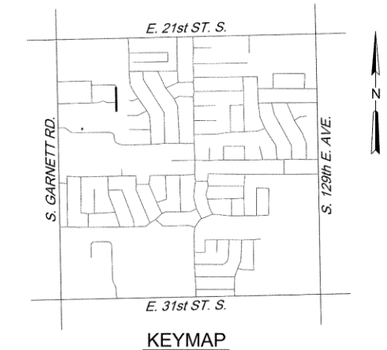
APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Plan05.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 25 OF 31 SHEETS

P:\140_Civil\n1400361 COT MZ6035 Bridge Rehab\21DesignWorking\CIV\L06Microstation\Okla\Sheets\1400361_MZ6035_Plan05.dgn 11:42:31 AM 7/1/2026







KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE

20' 10' 0 20'
SCALE: 1"=20'

KRISTI ERICKSON
LICENSED PROFESSIONAL ENGINEER
25821
OKLAHOMA
7-6-26

REHABILITATION PLAN (6 OF 9)
STA. 410+00 TO STA. 414+04.29
S. 116th E. AVE.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26	APPROVED:
	DESIGNED	KLE	7/26	
	SURVEY	RDL	7/26	
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.		7/26	
	LEAD ENGR.		7/26	
VERTICAL: 1"=NA	FIELD MGR.		7/26	
	RECOMMENDED DESIGN MANAGER	HAI	7-26	CITY ENGINEER
FILE: 1400361_MZ6035_Plan06.dgn				DATE: JULY 2026
ATLAS PAGE NO.: 236, 237				SHEET 26 OF 31 SHEETS

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

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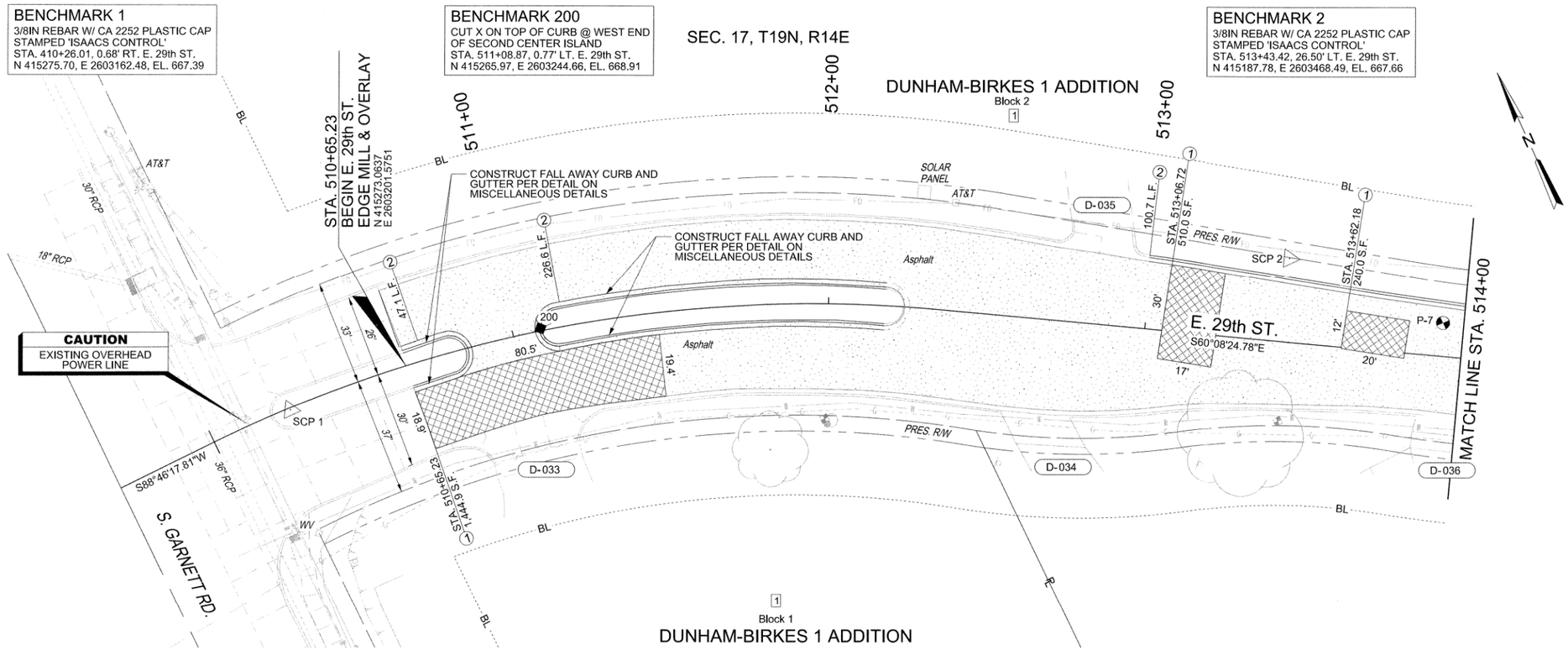
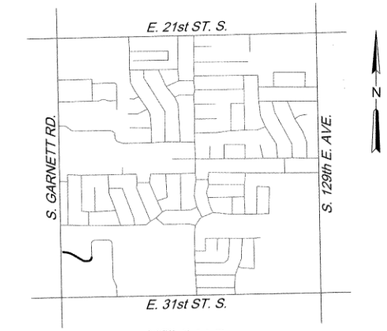
7/1/2026

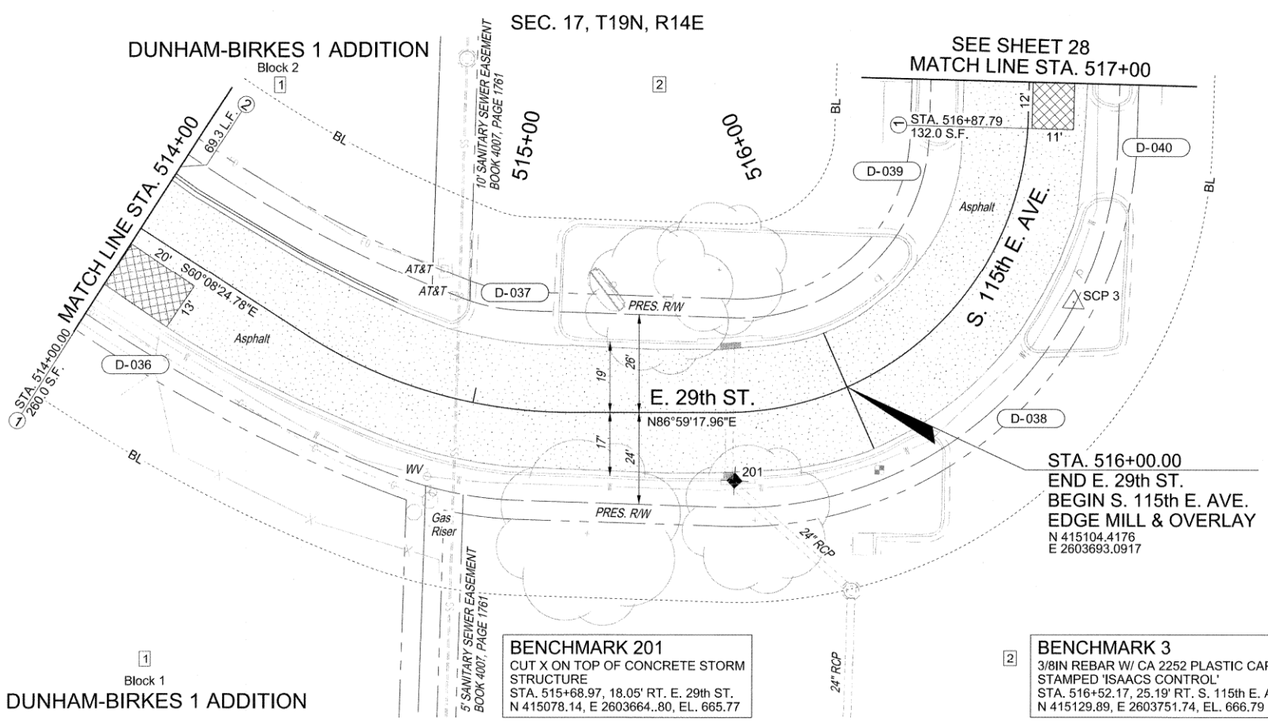




KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE



BENCHMARK 201
CUT X ON TOP OF CONCRETE STORM STRUCTURE
STA. 515+68.97, 18.05' RT. E. 29th ST.
N 415078.14, E 2603664..80, EL. 665.77

BENCHMARK 3
3/8IN REBAR W/ CA 2252 PLASTIC CAP STAMPED 'ISAACS CONTROL'
STA. 516+52.17, 25.19' RT. S. 115th E. AVE.
N 415129.89, E 2603751.74, EL. 666.79

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

20' 10' 0 20'
SCALE: 1"=20'

LICENSED PROFESSIONAL ENGINEER KRISTI ERICKSON 25821 OKLAHOMA
7-6-26

REHABILITATION PLAN (7 OF 9)
STA. 510+00 TO STA. 517+00.00
E. 29th ST. & S. 115th E. AVE.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.	RDB	7/26
	LEAD ENGR.	KLE	7/26
VERTICAL: 1"=NA	FIELD MGR.	RDL	7/26
	RECOMMENDED: DESIGN MANAGER	HAB	7·26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_Plan07.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 27 OF 31 SHEETS

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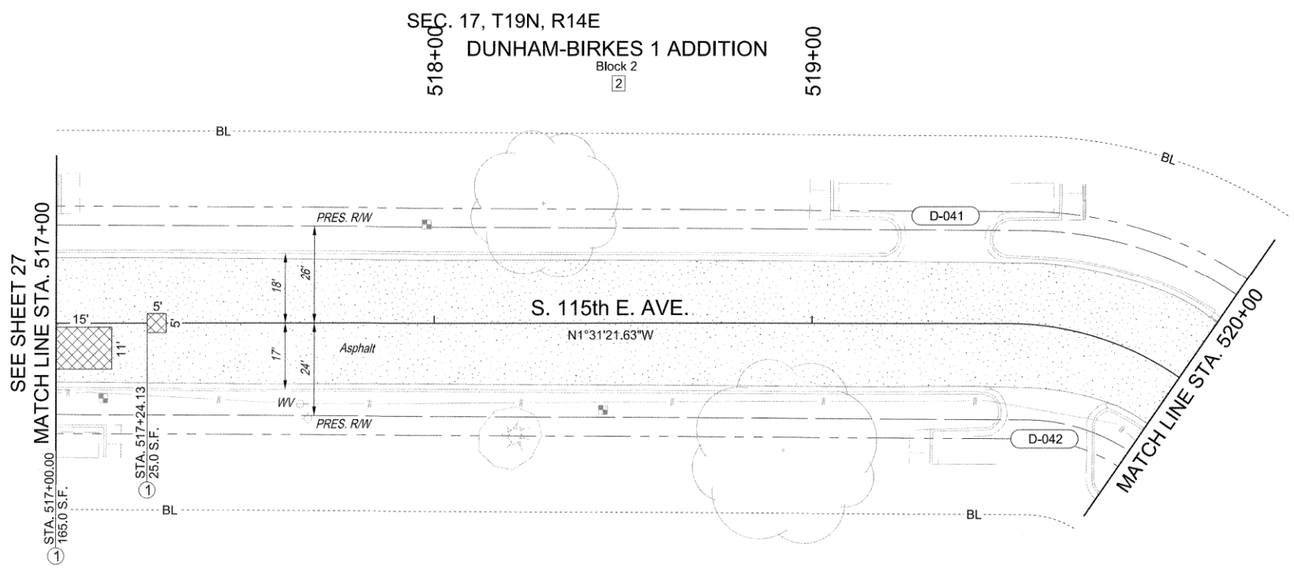
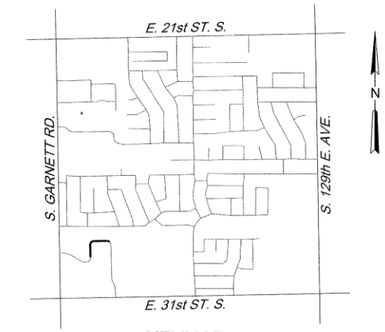
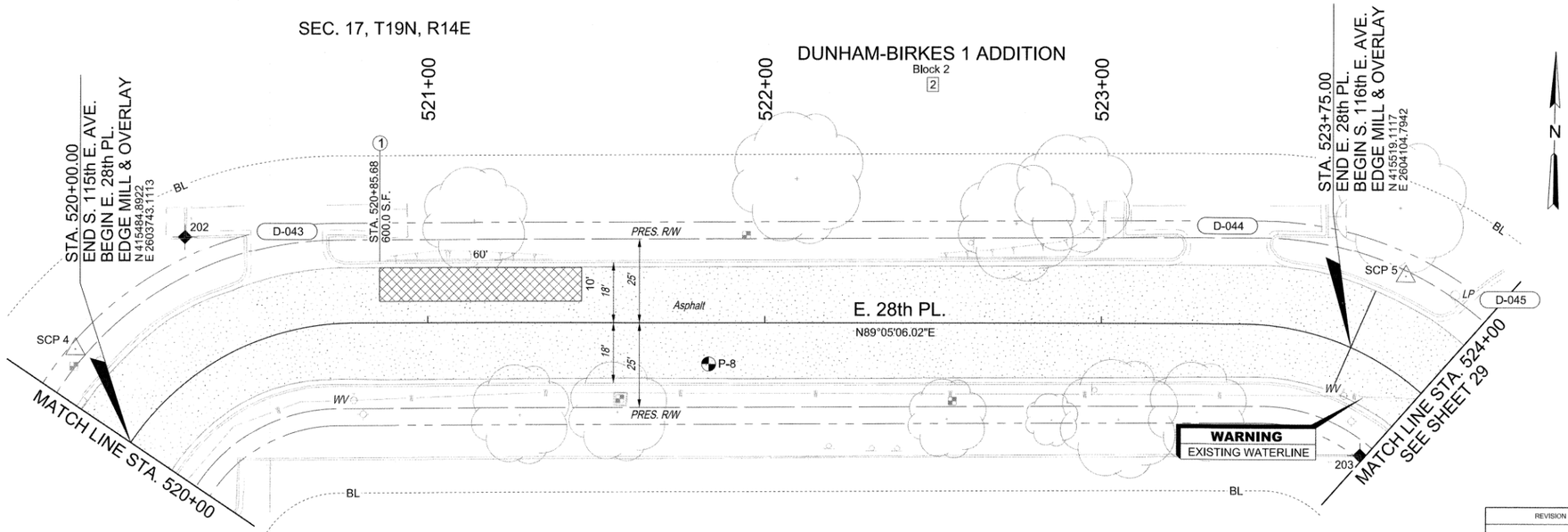




KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- (D-XXX) DRIVEWAY NO.
- (1) TYPE 1 AC PATCH
- (2) REMOVE & REPLACE CURB AND GUTTER
- (3) REMOVE & REPLACE DRIVE
- (4) ADJUST MANHOLE TO GRADE



20' 10' 0 20'
SCALE: 1"=20'

KRISTI ERICKSON 25821 LICENSED PROFESSIONAL ENGINEER OKLAHOMA
7-6-26

REHABILITATION PLAN (8 OF 9)
STA. 517+00 TO STA. 524+00
S. 115th E. AVE., E. 28th PL. & S. 116th E. AVE.

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"=NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
VERTICAL: 1"=NA	FIELD MGR.		7/26
	RECOMMENDED: DESIGN MANAGER		7.26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_Plan08.dgn
ATLAS PAGE NO.: 236, 237
DATE: JULY 2026
SHEET 28 OF 31 SHEETS

BENCHMARK 4
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 520+09.99, 29.96' LT. S. 115th E. AVE.
N 415512.26, E 2603726.21, EL. 672.51

BENCHMARK 202
CUT X ON TOP OF CURB @ AT THE
CORNER OF FIRST PARKING SPOT
STA. 520+42.63, 36.99' LT. E. 28th PL.
N 415546.03, E 2603758.16, EL. 672.90

2
Block 2
DUNHAM-BIRKES 1 ADDITION

BENCHMARK 5
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 523+79.83, 26.10' LT. S. 116th E. AVE.
N 415540.48, E 2604120.79, EL. 671.52

BENCHMARK 203
CUT X ON TOP OF CURB @ SOUTH
END OF PARKING LOT
STA. 523+98.10, 25.84' RT. S. 116th E. AVE.
N 415487.24, E 2604108.06, EL. 670.85

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

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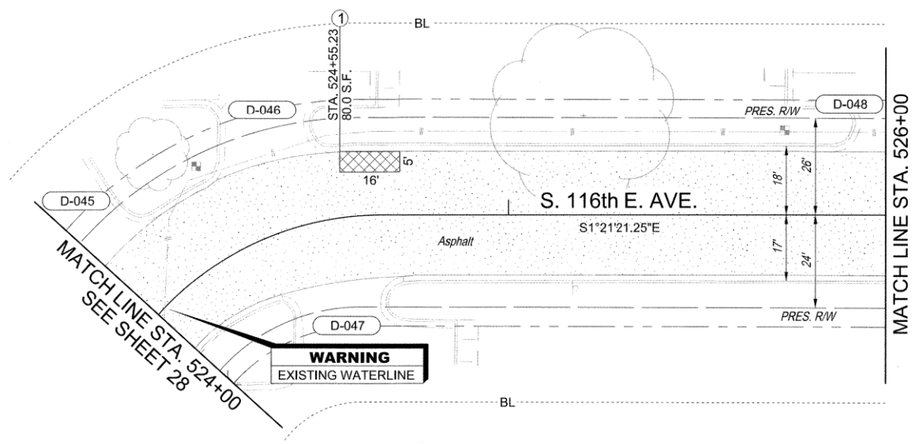
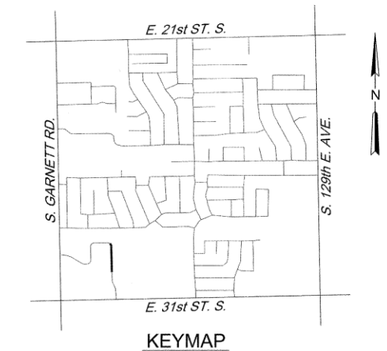
SEC. 17, T19N, R14E
DUNHAM-BIRKES 1 ADDITION
Block 2
2

525+00



2
Block 2
DUNHAM-BIRKES 1 ADDITION



KEYMAP

LEGEND

- EDGE MILL & OVERLAY
- PROPOSED AC PATCH
- DRIVEWAY
- CURB AND GUTTER
- D-XXX DRIVEWAY NO.
- 1 TYPE 1 AC PATCH
- 2 REMOVE & REPLACE CURB AND GUTTER
- 3 REMOVE & REPLACE DRIVE
- 4 ADJUST MANHOLE TO GRADE

SEC. 17, T19N, R14E

DUNHAM-BIRKES 1 ADDITION
Block 2
2

527+00

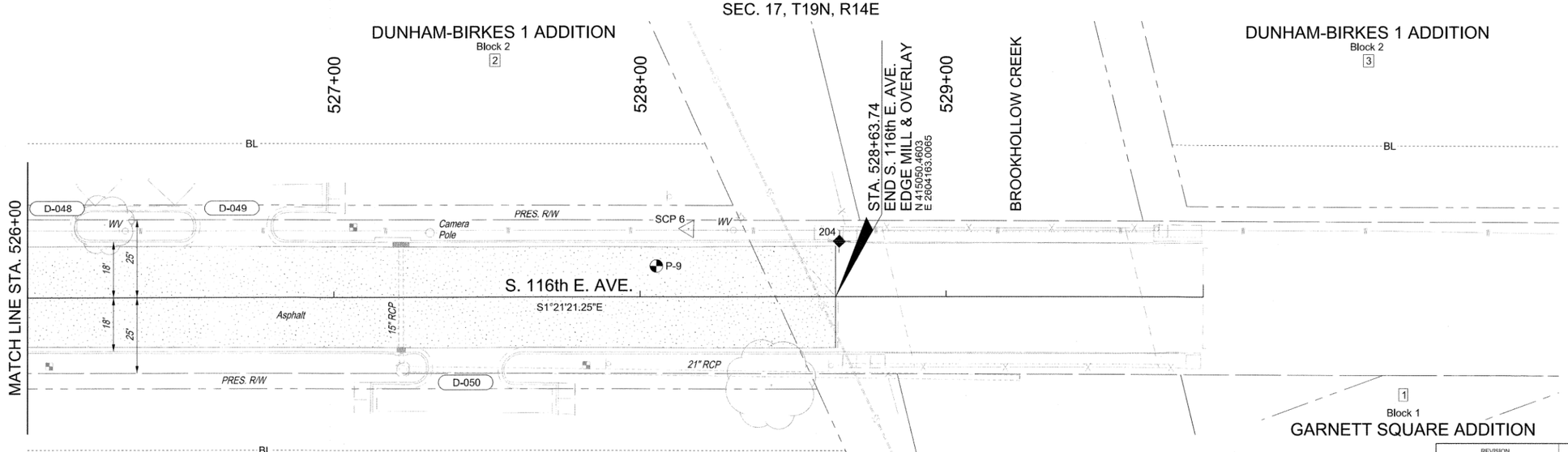
528+00

STA. 528+63.74
END S. 116th E. AVE.
EDGE MILL & OVERLAY
N 415050.4603
E 2604163.0065

529+00

BROOKHOLLOW CREEK

DUNHAM-BIRKES 1 ADDITION
Block 2
3



1
Block 1
GARNETT SQUARE ADDITION

2
Block 2
DUNHAM-BIRKES 1 ADDITION

BENCHMARK 6
3/8IN REBAR W/ CA 2252 PLASTIC CAP
STAMPED 'ISAACS CONTROL'
STA. 528+15.82, 22.12' LT. S. 116th E. AVE.
N 415098.88, E 2604183.99, EL. 666.64

BENCHMARK 204
CUT X ON TOP OF CURB @ NORTH
END OF BRIDGE - EAST SIDE OF ROAD
STA. 528+64.94, 18.06' LT. S. 116th E. AVE.
N 415049.68, E 2604181.09, EL. 667.22

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

N
20' 10' 0 20'
SCALE: 1"=20'

Kristi Erickson
LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

REHABILITATION PLAN (9 OF 9)
STA. 524+00 TO STA. 528+63.74
S. 116th E. AVE

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 20'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.	BJB	7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED DESIGN MANAGER	HAL	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Plan09.dgn
DATE: JULY 2026
ATLAS PAGE NO.: 236, 237
SHEET 29 OF 31 SHEETS

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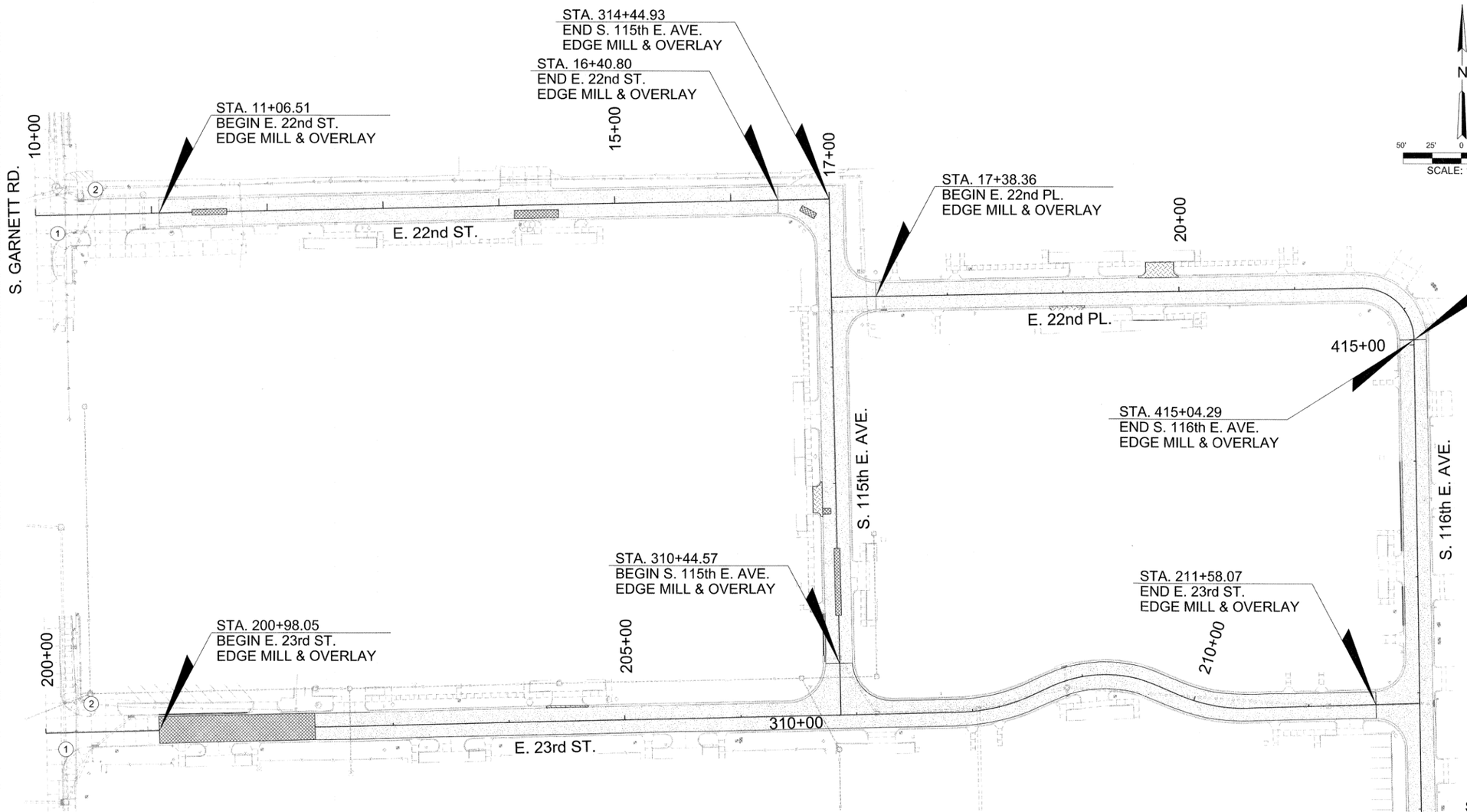
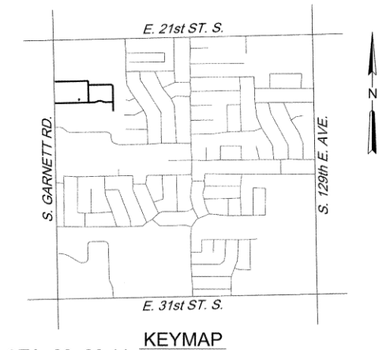
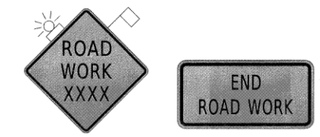




KEYMAP

STA. 22+28.11
END E. 22nd PL.
EDGE MILL & OVERLAY



W20-1 (AHEAD) ① G20-2A ②

NOTE :

CONTRACTOR SHALL ONLY BE ALLOWED TO WORK WITHIN TWO STREETS AT A TIME. ALL WORK WITHIN THOSE STREETS ARE TO BE COMPLETED BEFORE WORK ON ANOTHER STREET CAN BE STARTED.

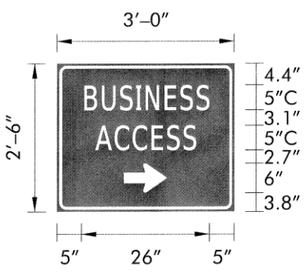
AFTER PAVEMENT IS MILLED, THE ENGINEER AND FIELD STAFF SHALL DETERMINE PATCHING LOCATIONS BEFORE ANY PATCHING WORK CAN BEGIN.

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

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

BUSINESS ACCESS SIGNS SHALL BE USED ALONG E. 22nd ST., E. 23rd St. AND E. 29th ST. DURING CONSTRUCTION.

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



SIGN NUMBER	SP. SIGN BAS(R)
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

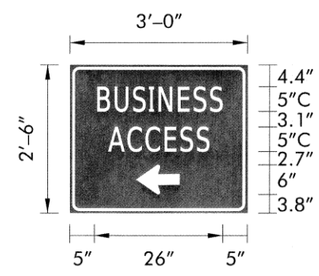
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	270	13.5	3.8	6	9

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
B	U	S	I	N	E	S	S										C 2000
5	8.7	12.3	16	17.8	21.7	24.8	28.2									26	5
A	C	C	E	S	S												C 2000
7.7	11.5	15.2	19	22.1	25.5											20.7	5

SIGN BAS(R)

7.5 SF



SIGN NUMBER	SP. SIGN BAS(L)
WIDTH x HGHT.	3'-0" x 2'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90	13.5	3.8	6	9

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
B	U	S	I	N	E	S	S										C 2000
5	8.7	12.3	16	17.8	21.7	24.8	28.2									26	5
A	C	C	E	S	S												C 2000
7.7	11.5	15.2	19	22.1	25.5											20.7	5

SIGN BAS(L)

7.5 SF

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

KRISTI ERICKSON 25821 LICENSED PROFESSIONAL ENGINEER OKLAHOMA 7-6-26

SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL (1 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

REVISION	BY	DATE

PLAN SCALE 1"= 50'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED: DESIGN MANAGER	HAS	7-26

APPROVED: CITY ENGINEER

FILE: 1400361_MZ6035_Const_Seq-01.dgn

DATE: JULY 2026

ATLAS PAGE NO.: 236, 237

SHEET 30 OF 31 SHEETS

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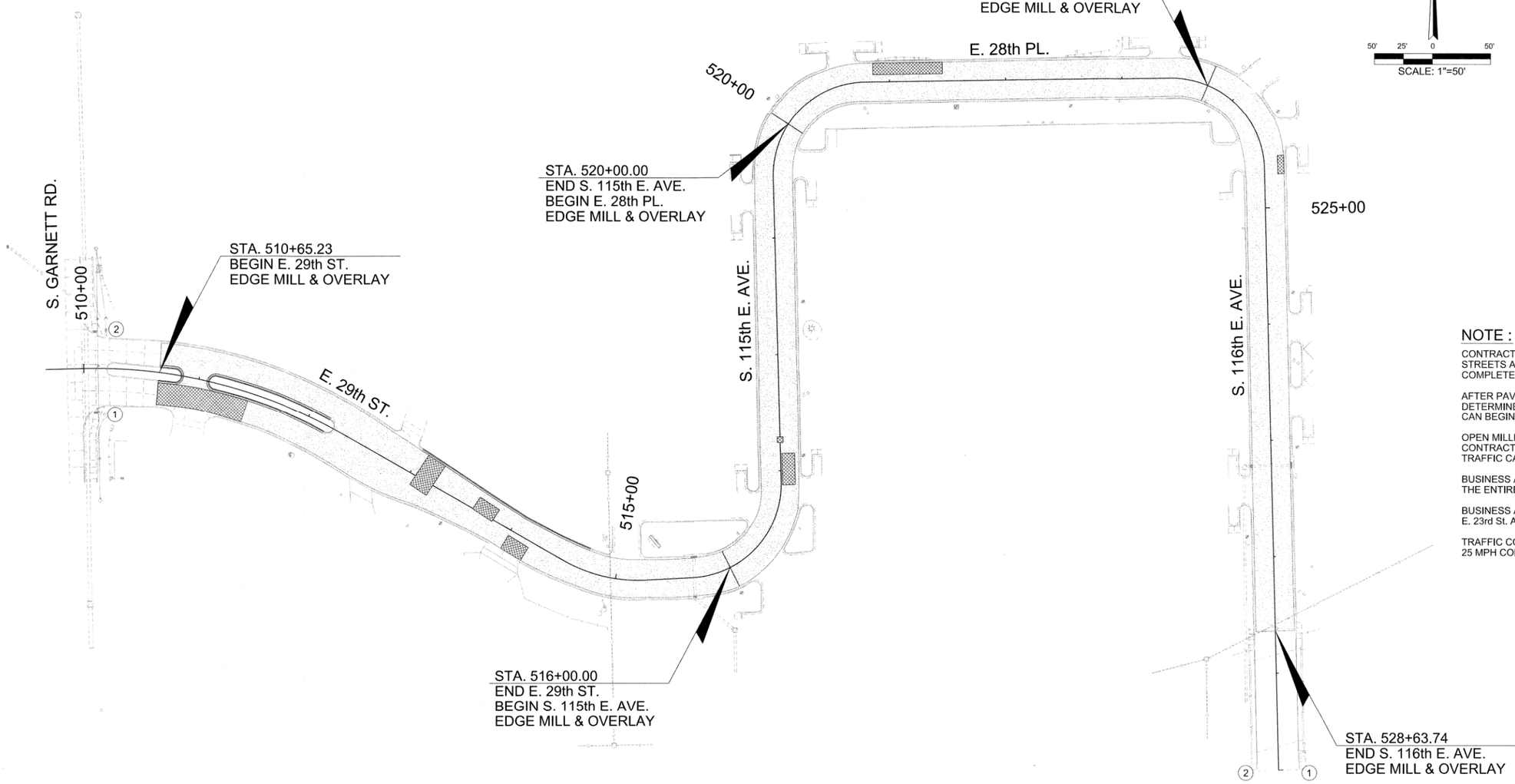

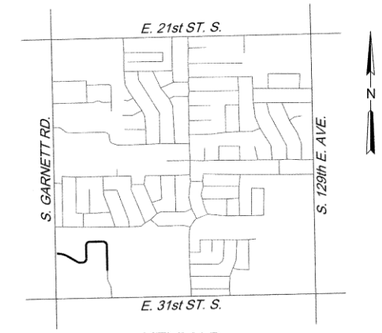

KEYMAP

W20-1 (AHEAD) (1)

G20-2A (2)

NOTE :

CONTRACTOR SHALL ONLY BE ALLOWED TO WORK WITHIN TWO STREETS AT A TIME. ALL WORK WITHIN THOSE STREETS ARE TO BE COMPLETED BEFORE WORK ON ANOTHER STREET CAN BE STARTED.

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

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

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

BUSINESS ACCESS SIGNS SHALL BE USED ALONG E. 22nd ST., E. 23rd St. AND E. 29th ST. DURING CONSTRUCTION.

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

LICENSED PROFESSIONAL ENGINEER
KRISTI ERICKSON
25821
OKLAHOMA
7-6-26

SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL (2 OF 2)

NON-ARTERIAL STREET REHABILITATION
MZ 6035
PROJECT NO. 2036N6035Z

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM a Haskell Company
Benham Design, LLC
15 WEST 6TH STREET, SUITE 900
TULSA, OK 74119
(918)-599-4155

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

REVISION	BY	DATE

PLAN SCALE 1"= 50'	DRAWN	ES	7/26
	DESIGNED	KLE	7/26
	SURVEY	RDL	7/26
PROFILE SCALE HORIZONTAL: 1"= NA	PROJ. MGR.		7/26
	LEAD ENGR.		7/26
	FIELD MGR.		7/26
VERTICAL: 1"= NA	RECOMMENDED DESIGN MANAGER	HAS	7-26

APPROVED:
CITY ENGINEER

FILE: 1400361_MZ6035_Const_Seq-02.dgn
ATLAS PAGE NO.: 236, 237

DATE: JULY 2026
SHEET 31 OF 31 SHEETS

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