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 FILE: 2040150 Cover.dwg
 DATE: May 17, 2022 - 11:13AM

Summary of Roadway Pay Quantities Revision (11/14/2018)

ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUAN	S LOUISVILLE AVE			E 63RD ST			S MARION AVE			S NEW HAVEN AVE			S OSWEGO AVE			E 62ND ST	
						P&P 1	P&P 2	P&P 3	P&P 4	P&P 5	P&P 6	P&P 7	P&P 8	P&P 9	P&P 10	P&P 11	P&P 12	P&P 13	P&P 14	P&P 15	P&P 16	
						DEMO 1	DEMO 2	DEMO 3	DEMO 4	DEMO 5	DEMO 6	DEMO 7	DEMO 8									
1	202(A)	UNCLASSIFIED EXCAVATION	E-3, 4, R-1	CY	1721	230.3	76.1	71.3	181.0	112.2	39.3	231.8	87.0	16.9	58.5	13.6	192.7	104.7	74.5	217.8	13.0	
2	220	SWPPP DOCUMENTATION AND MANAGEMENT	E-6	LS	1																	
3	221(K)	TEMPORARY FBER LOG	E-7	LF	295	17.6	17.5	16.8	8.8	26.2	8.6	17.3	22.7	17.2	46.1	52.6		8.8	17.5	17.4		
4	230(A)	SOLID SLAB SODDING	E-10, 11	SY	104	7.0	7.1	0.6	26.0	0.0	0.0	7.9	7.1	9.2	9.9	0.0	0.0	8.1	8.6	4.8	7.9	
5	303(A)	AGGREGATE BASE TYPE A	S-1, 2	CY	965	127.0	46.8	43.2	115.0	57.8	26.1	117.5	49.0	15.1	33.4	6.7	94.6	62.9	51.0	109.2	10.1	
6	310(B)	SUBGRADE METHOD B		SY	2886	376.9	124.6	116.7	331.7	183.6	64.4	379.3	142.4	27.7	95.8	22.3	315.4	171.4	156.3	356.5	21.3	
7	325	SEPARATOR FABRIC	S-3	SY	5199	637.9	224.0	192.9	616.7	392.7	149.7	619.8	376.8	87.9	206.3	43.2	454.9	307.2	280.3	533.5	75.2	
8	409	FABRIC REINFORCEMENT, GLASS PAVE 25	S-4	SY	13795	1005.2	1005.4	789.4	1014.7	1002.1	340.6	1009.2	1008.5	701.2	1041.7	1001.0	762.0	1006.8	1005.8	690.6	410.3	
9	411(C)	SUPERPAVE, TYPE S4 (PG 64-22) (INSOLUBLE)	S-5, 6, 7, 8	TON	1545	112.6	112.6	88.4	113.6	112.2	38.1	113.0	113.0	78.5	116.7	112.1	85.3	112.8	112.6	77.3	46.0	
10	411(E)	SUPERPAVE, TYPE S6 (PG 64-22)	S-5, 6, 7, 8, G-1	TON	773	56.3	56.3	44.2	56.8	56.1	19.1	56.5	56.5	39.3	58.3	56.1	42.7	56.4	56.3	38.7	23.0	
11	412	COLD MILL PAVEMENT	S-9	SY	13795	1005.20	1005.40	789.40	1014.70	1002.10	340.60	1009.20	1008.50	701.20	1041.70	1001.00	762.00	1006.80	1005.80	690.60	410.30	
12	509(B)	CLASS A CONCRETE	S-12, 13	CY	28	0.0	0.0	4.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	4.9	0.0	
13	511(A)	REINFORCING STEEL		LB	2159	0.0	0.0	543.6	543.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	528.3	543.6	0.0	
14	609(B)	2'-2" COMBINED CURB AND GUTTER (6" BARRIER)	S-12, 13, 15, 16	LF	469	31.50	31.90	2.50	117.20			35.60	32.00	41.60	44.60			36.40	38.70	21.60	35.50	
15	610(B)	6" CONCRETE DRIVEWAY	S-12, 13, 16, 17	SY	333	70.40	40.10	52.80	20.90	18.00	45.10		19.10	16.00				50.60				
16	611(A)	4'-DIA. MANHOLE , COMPLETE IN PLACE	D-1, 2, 3, 4, 5	EA	2				2.0													
17	611(B)	ADDITIONAL DEPTH IN MANHOLE (4' DIAMETER)	D-4	VF	2				2.0													
18	611(G)	CICI INLET DESIGN NO. 2(STD), COMPLETE IN PLACE	D-2, 3, 7, 8, 9, 10, 11	EA	1				1.0													
19	612(A)	MANHOLE ADJUSTED TO GRADE (PUBLIC)	S-12, R-2, D-(1, 2, 6)	EA	23	1.00	2.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	1.00	3.00	1.00	1.00	1.00	2.00	0.00	
20	612(C)	INLET ADJUST TO GRADE	S-12, R-2, D-(2, 6, 7, 9)	EA	3	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	612(E)	VALVE BOXES ADJUSTED TO GRADE	S-12, R-2, D-6	EA	3			1.0													2.0	
22	613(A)	RCP, 15-INCH ROUND, COMPLETE IN PLACE	D-8, 12, 13	LF	239				239.0													
23	619(B)	REMOVAL OF CONCRETE DRIVEWAY	R-1, 2, 5, 6	SY	333	70.4	40.1	52.8	20.9	18.0	45.1		19.1	16.0				50.6				
24	619(B)	REMOVAL OF CURB AND GUTTER	R-1, 2, 5, 6	LF	474	31.5	31.9	2.5	117.2			35.6	32.0	41.6	49.6			36.4	38.7	21.6	35.5	
25	619(B)	REMOVAL OF ASPHALT PAVEMENT	R-1, 2, 5, 6	SY	70				35.4										34.4			
26	641	MOBILIZATION	G-2	EA	1																	
27	642	CONSTRUCTION STAKING	G-3, 4	EA	1																	
28	805(A)	REMOVAL OF TRAFFIC ITEMS	T-1	EA	9			2	2	1	1								1	2		
29	880(A)	ARROW DISPLAY	T-4	SD	240																	
30	880(B)	SIGNS 0.00 TO 6.25 SF	T-2, 4, 5	SD	3350																	
31	880(B)	SIGNS 6.26 TO 15.99 SF	T-2, 4, 5	SD	2211																	
32	880(B)	SIGNS 16.00 AND UP	T-2, 4, 5	SD	1875																	
33	880(C)	BARRICADES (TYPE III)	T-2, 4, 5	SD	240																	
34	880(E)	TYPE "A" WARNING LIGHT	T-5	SD	480																	
35	880(E)	TYPE "C" WARNING LIGHT	T-5	SD	5475																	
36	880(F)	DRUMS	T-2, 4, 5	SD	4560																	
37	880(G)	TUBE CHANNELIZERS	T-2, 4, 5	SD	5475																	
38	882(B)	REMOTE CONTROLLED CHANGEABLE MESSAGE SIGN	T-4	SD	240																	
39	SPECIAL	TYPE I AC PATCH	S-21, G-1	CY	521	68.05	22.50	21.07	59.89	33.15	11.63	68.49	25.71	5.00	17.30	4.03	56.95	30.95	28.22	64.37	3.85	
40	SPECIAL	PROJECT SIGN (CITY OF TULSA)	T-7	EA	2																	
41	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	G-5, 6, 7, 8, 9, 10	EA	1																	
42	SPECIAL	OWNER ALLOWANCE		EA	10000																	
43	SP COT 202	QUICK SET FLOWABLE FILL	G-1, D-8	CY	107	14.11	5.20	4.80	12.78	6.42	2.90	13.06	5.44	1.68	3.72	0.74	10.51	6.98	5.66	12.14	1.13	
44	SP COT 334	CONSTRUCTION AS-BUILTS		LSUM	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45	SP COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1																	
46	SP COT 608(A)	GROUND SIGN	T-2	SF	87			24.25	16.00	8.00	8.00								8.00	22.25		
47	SP COT 608(C)	1 1/2" SQUARE TUBE POST		LF	14			3.00	3.00	1.50	1.50								1.50	3.00		
48	SP COT 608(D)	1 3/4" SQUARE TUBE POST		LF	95			21.00	21.00	10.50	10.50								10.50	21.00		
49	SP COT 608(E)	2" SQUARE TUBE POST		LF	27			6.00	6.00	3.00	3.00								3.00	6.00		
		SUBTOTAL ROADWAY																				

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

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



ROADWAY PAY QUANTITIES			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAR 1400 EXP. DATE 6-30-2023	(918)884-5858 TULSA, OK 74103	
PLAN SCALE:	DRAWN: RJP 2/2021 DESIGNED: LKW 2/2021 SURVEY: RWB 2/2021	APPROVED:	
PROFILE SCALE:	PROJ MGR. 5/22 LEAD ENGR. 6/22		
HORIZONTAL:	FIELD MGR. 2021/6/22		
VERTICAL:	RECOMMENDED: 4/5 8-22 DESIGN MANAGER		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET 2	OF 41 SHEETS

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ENGINEERING SERVICES - TRANSPORTATION DESIGN
PAY ITEM NOTES (VERSION: 11/14/2018)
EARTHWORK / EROSION CONTROL / SITE PREPARATION (E1 - E11)

- E-1: NOT USED
- E-2: NOT USED
- E-3: THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL EXCAVATION REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY TO VERIFY ANY ADDITIONAL QUANTITIES. QUANTITY CHANGES WILL NOT BE CONSIDERED FOR LATERAL DIFFERENCES IN EXCAVATIONS RESULTING FROM CONTRACTOR'S ACTUAL SLOPED OR SHORED EXCAVATIONS
- E-4: UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED.
- E-5: NOT USED
- E-6: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.
- E-7: EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;
B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;
C) FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER;
D) WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN.
ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.
- E-8: NOT USED
- E-9: NOT USED
- E-10: ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE OF LIKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSED AREAS BEYOND THE ABOVE STATED LIMITS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESODDED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.
- E-11: COST OF WATERING AND FERTILIZING SHALL BE INCLUDED. FERTILIZERS SHALL BE 10-20-10 AND SHALL BE APPLIED AT THE RATE OF 1.5 LBS PER 10 SQ YDS. FERTILIZER SHALL BE APPLIED PER SECTION 230.04H OF ODOT STANDARD SPECIFICATIONS. WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.

SURFACING / STRUCTURES (S1 - S21)

- S-1: TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.
- S-2: INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.
- S-3: SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR.
- S-4: FABRIC REINFORCEMENT SHALL BE USED ON OVERLAY AREAS. THE COST OF BITUMINOUS BINDER FOR FABRIC REINFORCEMENT SHALL BE INCLUDED IN THE UNIT COST OF THIS PAY ITEM. THE BITUMINOUS BINDER SHALL MEET ODOT STANDARD SPECIFICATIONS AND THE RECOMMENDATIONS OF THE FABRIC REINFORCEMENT MANUFACTURER.
- S-5: THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS, SHALL BE INCLUDED IN ASPHALT CONCRETE.
- S-6: ESTIMATED AT 112 LBS PER SQ YD PER 1 INCH THICK.
- S-7: ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF 92%-97% WILL RESULT IN REJECTION OF WORK.
- S-8: A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY.
- S-8 (TABLE):
- | BINDER GRADE ² | MESALs ¹ | ADT ¹ NOTES | |
|---------------------------|---------------------|------------------------|---|
| PG 64-22 OK | < 3 | < 5,000 | USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. |
| PG 70-28 OK | < 10 | < 10,000 | ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW P.C. AND TEMP. CONSTRUCTION. |
| PG 76-28 OK | >= 10 | >= 10,000 | USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES. |
| PG 76-28 E | -- | -- | USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES. |
| | | | CONTACT ODOT MATERIALS DIVISION FOR RECOMMENDED USE. |

- ¹ USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALs BASED ON 20 YEARS.
- ² PG 70-28 OK OR PG 76-28 OK MAY BE DESIRABLE IN HIGH VOLUME AREAS WHERE SLOW, STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF-RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AS THE MAINLINE.
- S-9: THIS ITEM INCLUDES ALL COSTS ASSOCIATED WITH COLD MILLING AND TO PROVIDE BUTT JOINTS AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COLD MILLING BEYOND THE AVERAGE DEPTH SHOWN ON THE TYPICAL SECTIONS.
- S-10: NOT USED
- S-11: NOT USED
- S-12: THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- S-13: INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.
- S-14: NOT USED
- S-15: THIS ITEM SHALL BE MEASURED AS THE ACTUAL AMOUNT OF CURB AND/OR GUTTER INSTALLED. NO PAYMENT WILL BE MADE FOR CURB AND/OR GUTTER THROUGH DRIVEWAYS AND INLETS.
- S-16: CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.
- S-17: ONE SIDEWALK PANEL ON EACH SIDE OF DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK OR MATCH EXISTING DRIVEWAY THICKNESS, WHICHEVER IS GREATER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE COST OF THE THICKENED SIDEWALK THROUGH THIS AREA.
- S-18: NOT USED
- S-19: STANDARD BEDDING MATERIAL TO BE TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY (AASHTO T-99). TYPE A AGGREGATE BASE IN THE ROADWAY SHALL BE COMPACTED TO 98% MODIFIED PROCTOR (AASHTO T-180).
- 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

REMOVAL / ADJUSTMENT (R1 - R6)

- R-1: WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- R-2: ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
- R-3: NOT USED
- R-4: NOT USED
- R-5: ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- R-6: SHALL INCLUDE ALL COSTS ASSOCIATED WITH PLUGGING/ PATCHING HOLES IN EXISTING STRUCTURES TO REMAIN.

GENERAL (G1 - G10)

- G-1: LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.
- G-2: MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION. EXCLUDES MOBILIZATION FOR WATERLINE WORK.
- G-3: CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.
- G-4: THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.
- G-5: CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST. COST SHALL BE INCLUDED IN THE PRICE BID.
- G-6: ALL HOUSE NUMBERS SHALL BE REPLACED/ REESTABLISHED THROUGHOUT PROJECT LIMITS. COST TO BE INCLUDED IN URBAN RIGHT OF WAY RESTORATION. CONTRACTOR SHALL REESTABLISH DRAINS, ROOF DRAINS AND OTHER DRAINAGE THROUGH THE CURBS IN ACCORDANCE WITH CITY OF TULSA STANDARD 758. NO NEW CURB OUTLETS SHALL BE CONSTRUCTED WITHOUT APPROVAL OF THE ENGINEER.
- G-7: AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND/OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS. CONTACT #: 918-596-2548
- G-8: TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.
- G-9: CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.
- G-10: PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.

DRAINAGE (D1 - D15)

- D-1: THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS.752, 753, 754, 761, 762, 769A, 769B AND 775.
- D-2: THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.
- D-3: NO MASONRY STRUCTURES SHALL BE CONSTRUCTED WITHIN THE RIGHT OF WAY.
- D-4: ADDITIONAL DEPTH IN A MANHOLE SHALL BE MEASURED FROM 6FT AS MEASURED FROM THE TOP OF RIM TO THE LOWEST FLOWLINE.
- D-5: ALL MANHOLES SHALL BE COMPLETE IN PLACE. THIS PAY ITEM INCLUDES FRAME, COVER, CONCRETE AND ALL OTHER INCIDENTALS REQUIRED FOR PLACEMENT.
- D-6: ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
- D-7: INCLUDES THE COST REQUIRED TO MAKE CONNECTION AND REMOVAL OF EXISTING INLETS. THE COST OF PC CONCRETE CURB AND GUTTER THROUGH THE INLET, 5' EACH SIDE OF THE INLET, AND THE PC CONCRETE INLET APRON SHALL BE INCLUDED. GRATE AND FLOWLINE ELEVATIONS SHALL MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED IN THE PLANS.
- D-8: QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND STREET CURB INLETS AND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.
- D-9: ALL INLETS, COMPLETE IN PLACE, SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. THIS PAY ITEM INCLUDES ANY INLET FRAME(S), GRATE(S), HOOD(S) AND CONCRETE REQUIRED FOR COMPLETE INSTALLATION OF STRUCTURE PER THE CONSTRUCTION DOCUMENTS.
- D-10: ADDITIONAL DEPTH QUANTITIES SHALL BE MEASURED AND PAID FOR ALL INLETS EXCEEDING STANDARD DEPTH. STANDARD DEPTHS ARE AS FOLLOWS:
- A) CAST IRON CURB INLET: 3.71 VF, MEASURED FROM CENTER ELEVATION OF LOWEST CAST IRON CURB TO FLOWLINE OF OUTLET PIPE.
B) RECESSED CURB INLET: 3.00 VF, MEASURED FROM TOP OF SLAB TO FLOWLINE OF OUTLET PIPE.
C) STANDARD DROP INLET: SEE STANDARD DETAILS 770, 771, 772 AND 773 - VARIES BASED ON PIPE SIZE, MEASURED FROM LOWEST ELEVATION OF INFLOW APRON TO FLOWLINE OF OUTLET PIPE.
- D-11: CAST IRON CURB INLET CONFIGURATION NAMING CONVENTION PROVIDED IN COT STANDARD NO. 755. SEPARATE DETAILS SHALL BE REFERENCED OR PROVIDED IN THE PLANS FOR NON-CITY-STANDARD INLETS.

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

G: NUMBER OF GRATES.

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

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

- D-12: REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE AND MANHOLES TO BE SUPPLIED WITH AN IMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE ALLOWED.
- D-13: THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED MOBILE CLOSED-CIRCUIT CAMERA SYSTEM.
- D-14: NOT USED
- D-15: NOT USED

TRAFFIC (T1 - T7)

- T-1: ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- T-2: REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- T-3: NOT USED
- T-4: PAYMENT SHALL BE MADE ON A SIGN-DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE REMOVAL AND REPLACEMENT, AS NEEDED AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE BID.
- T-5: IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- T-6: NOT USED
- T-7: PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.

CAUTION

NOTICE TO CONTRACTOR

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

REVISION	BY	DATE

ROADWAY PAY ITEM NOTES				
MZ 8057 COT #2036N8057Z				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD COW 1460 EXP. DATE 8-30-2023		(918)884-5858 TULSA, OK 74103	
PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
	DESIGNED	LKW	2/2021	
	SURVEY	RWB	2/2021	
PROFILE SCALE:	PROJ MGR.	JH	5/22	
HORIZONTAL:	LEAD ENGR.	②	6/22	
	FIELD MGR.	RJP	6/22	
VERTICAL:	RECOMMENDED	HAS	8-22	
	DESIGN MANAGER			
FILE:	DRAWING:			DATE:
ATLAS PAGE NO:	471			SHEET 3 OF 41 SHEETS



GENERAL CONSTRUCTION NOTES (REV 9/12/2016)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
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:
- | | |
|--|----------------------|
| SOUTHWESTERN BELL | 918-495-2200 |
| PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP) | 918-599-2217 |
| OKLAHOMA NATURAL GAS (ONG) | 918-588-7000 EXT.676 |
| COX COMMUNICATIONS | 918-628-3635 |
| MCI | 918-590-2160 |
| WELLSCO VALLOR TELECOM | 918-451-3441 |
| CITY OF TULSA-WATER AND SEWER | 918-596-9560 |
| CITY OF TULSA-TRAFFIC OPERATIONS | 918-596-9766 |
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
18. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7814 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.
27. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
30. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
31. ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT STATIONING AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH CITY OF TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS,

AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.

33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
34. ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS.
35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL IN THE FLOODPLAIN



CAUTION

NOTICE TO CONTRACTOR

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REVISION	BY	DATE

GENERAL CONSTRUCTION NOTES			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAB 1480 EXP. DATE 6-30-2023	(918)584-5958 TULSA, OK 74109	APPROVED
PLAN SCALE:	DRAWN: RJP 2/2021 DESIGNED: LKW 2/2021 SURVEY: RWB 2/2021	PROJECT MGR: JH 5/22 LEAD ENGR: GKE FIELD MGR: JMB RECOMMENDED: HBS 8-22 DESIGN MANAGER: [Signature]	CITY ENGINEER: [Signature]
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO: 471	SHEET 4 OF 41 SHEETS		

\\Civil-Server\Projects\2040150 MZ 8057\Production\2040150 PAY QUANTITIES AND NOTES.dwg
DATE: May 17, 2022 - 11:15AM

\\Civil-Server\Projects\2040150 MZ 8057\Drawg\Production\2040150 SUMMARIES.dwg
DATE: May 17, 2022 - 11:16AM

SUMMARY OF PAVING QUANTITIES											
P&P SHT NO	STATION TO STATION	AGGREGATE BASE, TYPE A	SUBGRADE METHOD B	SEPARATOR FABRIC	FABRIC REINFORCEMENT	ASPH CONC TYPE S4 (PG 64-22 OK) (INSOLUBLE)	ASPH CONC TYPE S6 (PG 64-22 OK)	CLASS A CONCRETE	REINFORCING STEEL	2'-2" COMB CURB & GTR (6" BARRIER)	TYPE 1 AC PATCH (NON-ARTERIAL)
		303(A)	310(B)	325	409	411(C)	411(C)	509	511(A)	411(C)	SPEC
		CY	SY	SY	SY	TON	TON	CY	LB	LF	CY
	S LOUISVILLE AVE										
23	0+00 TO 4+00	129.4	376.9	637.9	1005.2	112.6	56.3			31.5	68.1
24	4+00 TO 8+00	45.3	124.6	224.0	1005.4	112.6	56.3			31.9	22.5
25	8+00 TO 11+36	39.2	116.7	192.9	789.4	88.4	44.2	6.9	543.6	2.5	21.1
	E 63RD ST S										
26	100+00 TO 104+00	124.3	331.7	616.7	1014.7	113.6	56.8	6.9	543.8	117.2	59.9
27	104+00 TO 108+00	61.2	183.6	392.7	1002.1	112.2	56.1				33.2
28	108+00 TO 109+36	21.5	64.4	149.7	340.6	38.1	19.1				11.6
	S MARION AVE										
29	200+00 TO 204+00	130.6	379.3	619.8	1009.2	113.0	56.5			35.6	68.5
30	204+00 TO 208+00	51.2	142.4	376.8	1008.5	113.0	56.5			32.0	25.7
31	208+00 TO 210+73	14.1	27.7	87.9	701.2	78.5	39.3			41.6	5.0
	S NEW HAVEN AVE										
32	300+00 TO 304+00	37.8	95.8	209.8	1041.7	116.7	58.3			49.6	17.3
33	304+00 TO 308+00	7.4	22.3	43.2	1001.0	112.1	56.1				4.0
34	308+00 TO 310+99	105.1	315.4	454.9	762.0	85.3	42.7				57.0
	S OSWEGO AVE										
35	400+00 TO 404+00	61.4	171.4	307.2	1006.8	112.8	56.4			36.4	31.0
36	404+00 TO 408+00	56.6	156.3	280.3	1005.8	112.6	56.3	6.7	528.3	38.7	28.2
37	408+00 TO 411+03	121.4	356.5	533.5	890.6	77.3	38.7	6.9	543.6	21.6	64.4
	E 62ND ST S										
38	500+00 TO 501+66	10.1	21.3	75.2	410.3	46.0	23.0			35.5	3.9
	TOTAL	1016.6	2886.3	5202.5	13794.5	1544.8	772.5	27.4	2169.1	474.1	521.4

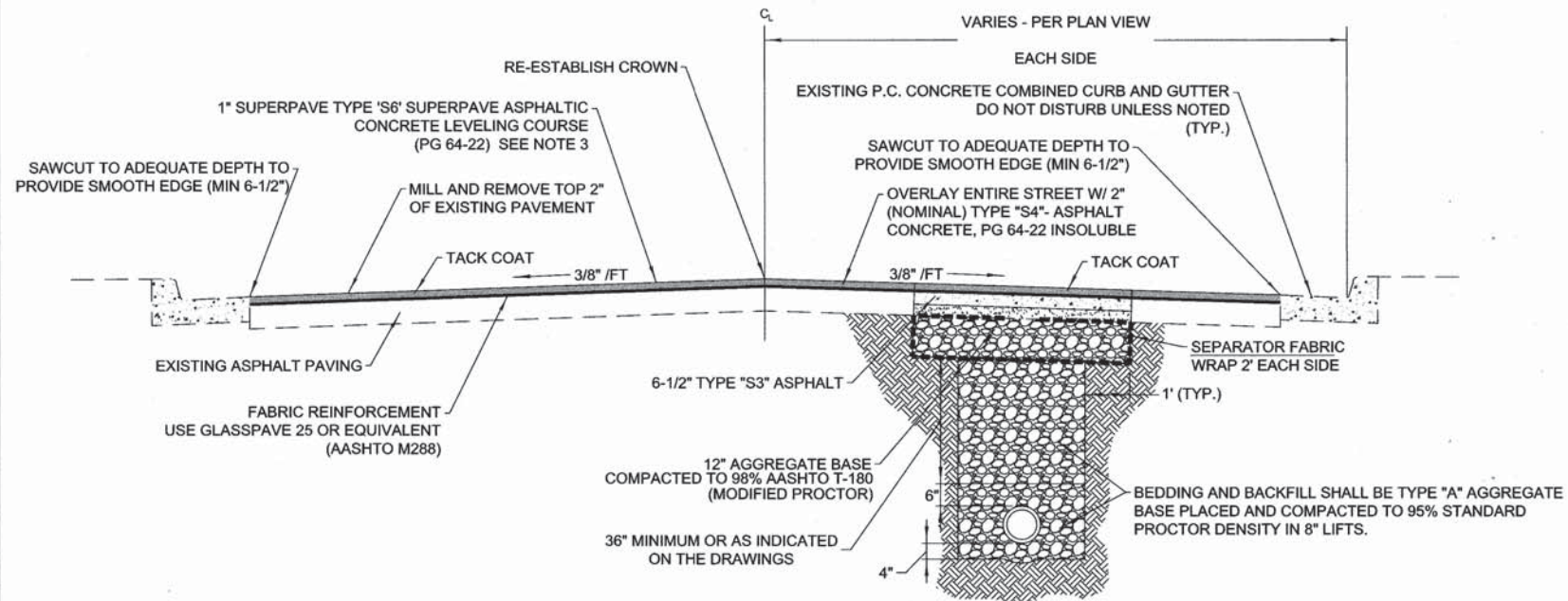
SUMMARY OF EROSION CONTROL QUANTITIES				
P&P SHT NO	STATION TO STATION	TEMPORARY FIBER LOG		SOLID SLAB SODDING
		221(K)	230(A)	
		LF	SY	
	S LOUISVILLE AVE			
23	0+00 TO 4+00	17.6	7.0	
24	4+00 TO 8+00	17.5	7.1	
25	8+00 TO 11+36	16.8	0.6	
	E 63RD ST S			
26	100+00 TO 104+00	8.8	26.0	
27	104+00 TO 108+00	26.2		
28	108+00 TO 109+36	8.6		
	S MARION AVE			
29	200+00 TO 204+00	17.3	7.9	
30	204+00 TO 208+00	22.7	7.1	
31	208+00 TO 210+73	17.2	9.2	
	S NEW HAVEN AVE			
32	300+00 TO 304+00	46.1	11.0	
33	304+00 TO 308+00	52.6		
34	308+00 TO 310+99			
	S OSWEGO AVE			
35	400+00 TO 404+00	8.8	8.1	
36	404+00 TO 408+00	17.5	8.6	
37	408+00 TO 411+03	17.4	4.8	
	E 62ND ST S			
38	500+00 TO 501+66		7.9	
	TOTAL	295.1	105.3	

SUMMARY OF SIGN LOCATIONS											
P&P SHT NO	LOCATION	DESCRIPTION	ACTION	MUTCD TYPE	SIZE	AREA/SQ	# OF SIGNS	TOTAL AREA	POSTS COT 608		
									1 1/2"	1 3/4"	2"
									LF	LF	LF
25	9+52, 27' RT (LP)	NEIGHBORHOOD STREET NAME BLADE (S LOUISVILLE AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S MARION AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
25	11+08, 15' RT	STOP	REMOVE & REPLACE	R1-1	30x30	6.25	1	6.25	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S LOUISVILLE AV 6100)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (E 61 ST ST 3700)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
	SAME POST	ALERT NEIGHBORHOOD BLADE	REMOVE & REPLACE	DBL SIDED	24x6	2.00	1	2.00			
26	100+15, 18' RT (LP)	NEIGHBORHOOD STREET NAME BLADE (S LOUISVILLE AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (E 63 RD ST)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
26	103+32, 24' LT (LP)	NEIGHBORHOOD STREET NAME BLADE (E 63 RD ST)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S MARION AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
27	106+64, 24' LT (LP)	NEIGHBORHOOD STREET NAME BLADE (E 63 RD ST)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S NEW HAVEN AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
28	109+25, 18' RT (LP)	NEIGHBORHOOD STREET NAME BLADE (E 63 RD ST)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S OSWEGO AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
36	404+68, 26' RT (LP)	NEIGHBORHOOD STREET NAME BLADE (S OSWEGO AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (E 62 ND ST)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
37	409+40, 36' LT (LP)	NEIGHBORHOOD STREET NAME BLADE (S OSWEGO AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S NEW HAVEN AV)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
37	410+74 17' RT	STOP	REMOVE & REPLACE	R1-1	30x30	6.25	1	6.25	1.5	10.5	3
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (S OSWEGO AV 6100)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
	SAME POST	NEIGHBORHOOD STREET NAME BLADE (E 61 ST ST 3900)	REMOVE & REPLACE	DBL SIDED	32x9	4.00	1	4.00			
	TOTAL						21	86.5	13.5	94.5	27

SUMMARY OF TRAFFIC CONTROL QUANTITIES									
P&P SHT NO	STATION TO STATION	CONSTRUCTION SIGNS 0 TO 6.25 SF	CONSTRUCTION SIGNS 6.25 TO 15.99 SF	CONSTRUCTION SIGNS 16.00 TO 32.99 SF	BARRICADES (TYP II)	WARNING LIGHTS (TYPE A)	WARNING LIGHTS (TYPE C)	DRUMS	TUBE CHANNELIZER
		880(B)	880(B)	880(B)	880(C)	880(E)	880(E)	880(F)	880(G)
		SD	SD	SD	SD	SD	SD	SD	SD
	S LOUISVILLE AVE								
23	0+00 TO 4+00	30	60		30	60	200	400	400
24	4+00 TO 8+00	30	30		30	200	400	400	400
25	8+00 TO 11+36	30	60		30	60	165	330	330
	E 63RD ST S								
26	100+00 TO 104+00	30	60		30	60	200	400	400
27	104+00 TO 108+00	30	30		30	200	400	400	400
28	108+00 TO 109+36	30	60		30	60	68	136	136
	S MARION AVE								
29	200+00 TO 204+00	30	60		30	60	200	400	400
30	204+00 TO 208+00	30	30		30	200	400	400	400
31	208+00 TO 210+73	30	60		30	60	136	273	273
	S NEW HAVEN AVE								
32	300+00 TO 304+00	30	60		30	60	200	400	400
33	304+00 TO 308+00	30	30		30	200	400	400	400
34	308+00 TO 310+99	30	60		30	60	100	200	200
	S OSWEGO AVE								
35	400+00 TO 404+00	30	60		30	60	200	400	400
36	404+00 TO 408+00	30	30		30	200	400	400	400
37	408+00 TO 411+03	30	60		30	60	150	303	303
	E 62ND ST S								
38	500+00 TO 501+66		30			30	26	52	52
	TOTAL	450	780	0	300	780	2645	5294	5294

SUMMARY OF DRIVEWAY QUANTITIES								
P&P SHT NO	STATION	APPROX LENGTH	APPROX WIDTH	EXIST SLOPE	PROP SLOPE	AGGREGATE BASE, TYPE A	6" CONCRETE DRIVEWAY	REMOVAL OF CONCRETE DRIVEWAY
		FT	FT	%	%	303(A)	610(B)	619(B)
						CY	SY	SY
	S LOUISVILLE AVE							
23	0+05, RT	6.0	21.0	9.7	9.7	2.0	12.1	12.1
23	0+79, LT	5.0	15.0	7.3	7.3	2.1	12.3	12.3
23	1+48, RT	7.0	16.0	9.6	9.6	3.0	18.0	18.0
23	2+10, LT	6.0	15.0	1.6	1.6	2.4	14.6	14.6
23	2+12, RT	8.0	11.0	10.8	10.8	2.2	13.4	13.4
24	4+51, RT	5.0	15.0	11.2	11.2	2.2	13.1	13.1
24	5+30, RT	5.0	17.0	13.8	13.8	2.2	13.3	13.3
24	6+65, RT	7.0	13.0	8.1	8.1	2.3	13.7	13.7
25	8+28, LT	10.0	24.0	8.1	8.1	5.6	33.6	33.6
25	9+95, LT	4.0	30.0	6.2	6.2	3.2	19.2	19.2
	E 63RD ST S							
26	0+05, LT	6.0	21.0	9.7	9.7	1.0	5.9	5.9
26	101+98, RT	5.0	22.0	10.2	10.2	2.5	15.0	15.0
27	105+48, LT	5.0	24.0	10.0	10.0	3.0	18.0	18.0
28	108+33, LT	13.0	27.0	9.1	9.1	7.5	45.1	45.1
	S MARION AVE							
30	206+50, RT	5.0	23.0	3.2	3.2	3.2	19.1	19.1
31	209+37, LT	6.0	15.0	9.5	9.5	2.7	16.0	16.0
	S OSWEGO AVE							
35	401+60, RT	6.0	15.0	10.3	10.3	2.2	13.2	13.2
35	401+80, RT	10.0	12.0	10.1	10.1	3.1	18.7	18.7
35	401+34, RT	10.0	14.0	10.4	10.4	3.1	18.7	18.7
	TOTAL					55.5	333.0	333.0

SUMMARY OF EARTHWORK QUANTITIES			
P&P SHT NO	STATION TO STATION	UNCLASSIFIED EXCAVATION	
		202(A)	
		CY	
	S LOUISVILLE AVE		
23	0+00 TO 4+00	230.3	
24	4+00 TO 8+00	76.1	
25	8+00 TO 11+36	71.3	
	E 63RD ST S		
26	100+00 TO 104+00	181.0	
27	104+00 TO 108+00	112.2	
28	108+00 TO 109+36	39.3	
	S MARION AVE		
29	200+00 TO 204+00	231.8	
30	204+00 TO 208+00	87.0	
31	208+00 TO 210+73	16.9	
	S NEW HAVEN AVE		
32	300+00 TO 304+00	58.5	
33	304+00 TO 308+00	13.6	
34	308+00 TO 310+99	192.7	
	S OSWEGO AVE		
35	400+00 TO 404+00	104.7	
36	404+00 TO 408+00	74.5	
37	408+00 TO 411+03	217.8	
	E 62ND ST S		
38	500+00 TO 501+66	13.0	
	TOTAL	1720.	

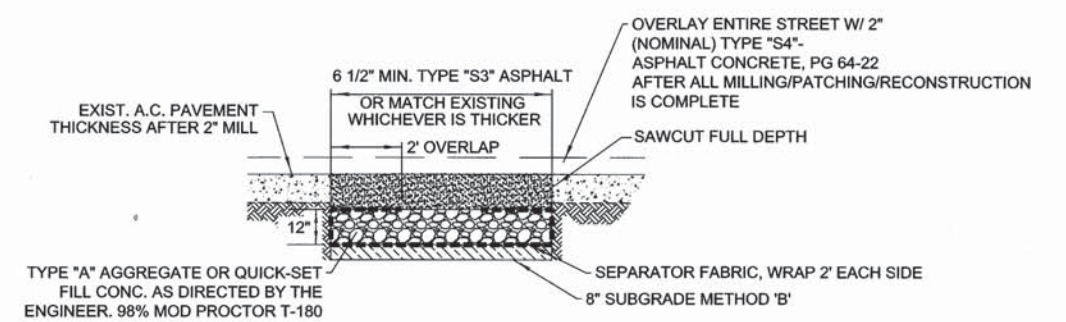


TYPICAL MILL & OVERLAY DETAIL

SCALE: NTS

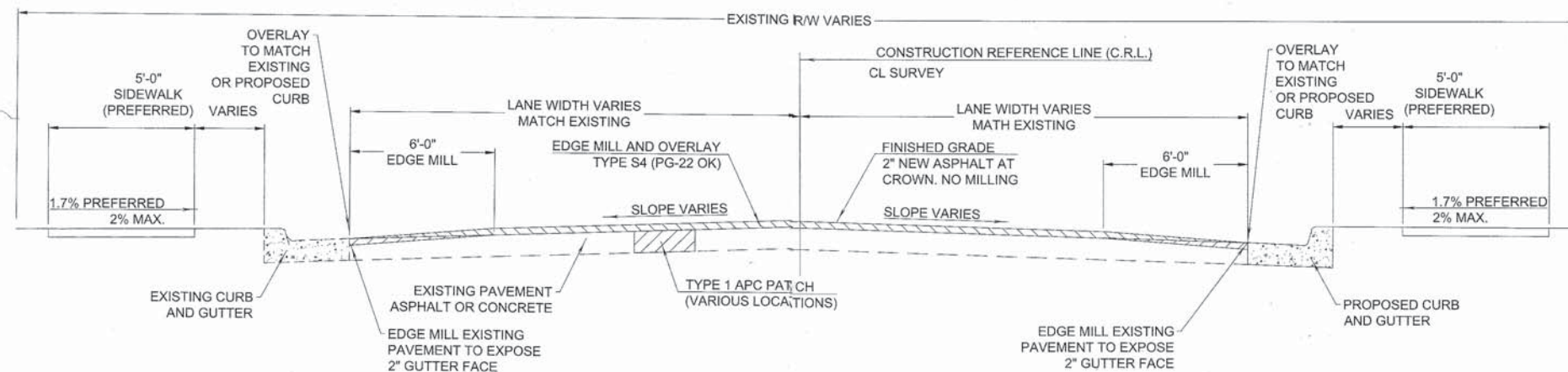
NOTES:

1. WHERE THE ASPHALT OVERLAY MATCHES THE EXISTING ASPHALT AT THE PROJECT LIMITS, THE CONTRACTOR SHALL SEAL BETWEEN THE NEW AC PAVEMENT AND EXISTING AC PAVEMENT WITH HOT RUBBERIZED ASPHALT.
2. SLOPE VARIES PER EXISTING CROSS SLOPES. ASPHALT OVERLAY TO MATCH ELEVATIONS SHOWN ON P&P SHEETS 22-38.
3. 1" SUPERPAVE TYPE S6 LEVELING COURSE SHALL BE USED AT THE DISCRETION OF THE FIELD ENGINEER PRIOR TO PLACING THE FABRIC REINFORCEMENT AND MAY BE OMITTED IN ITS ENTIRETY.



TYPE I AC PATCH NON-ARTERIAL

SCALE: NTS



TYPICAL SECTION EDGE MILL & OVERLAY

SCALE: NTS



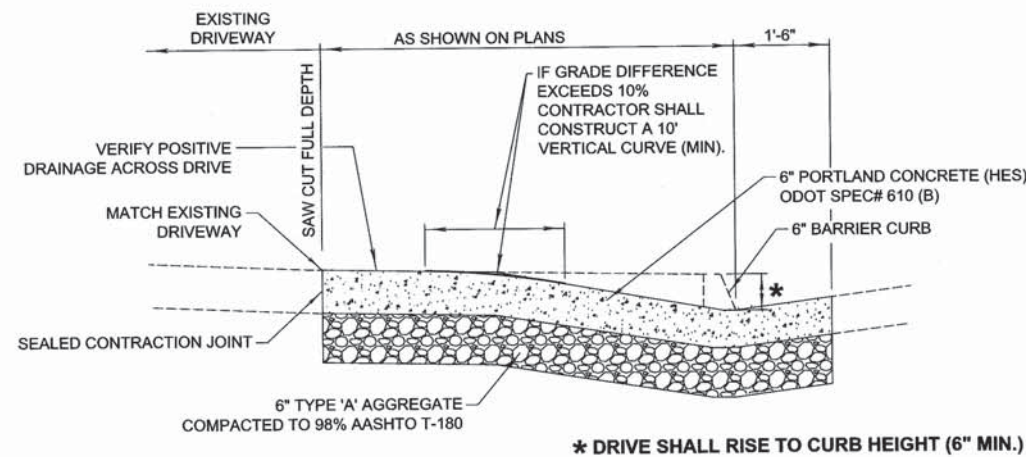
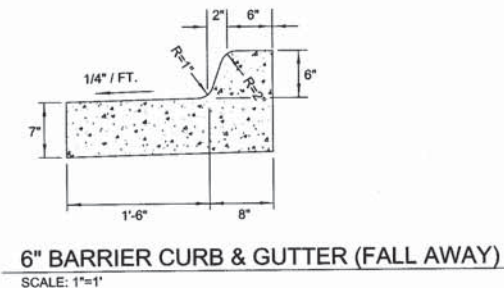
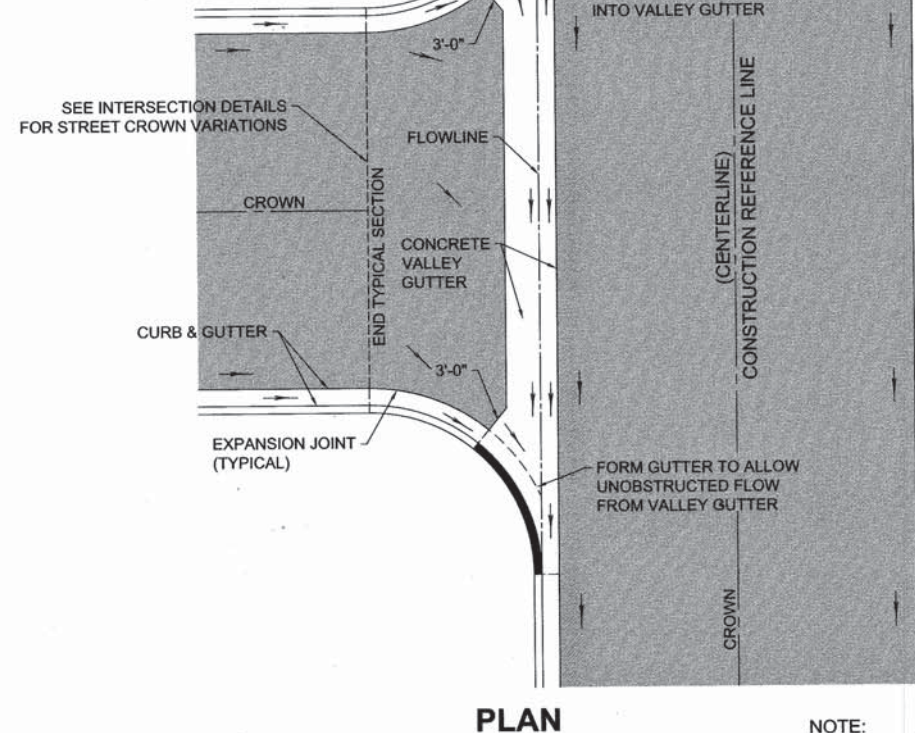
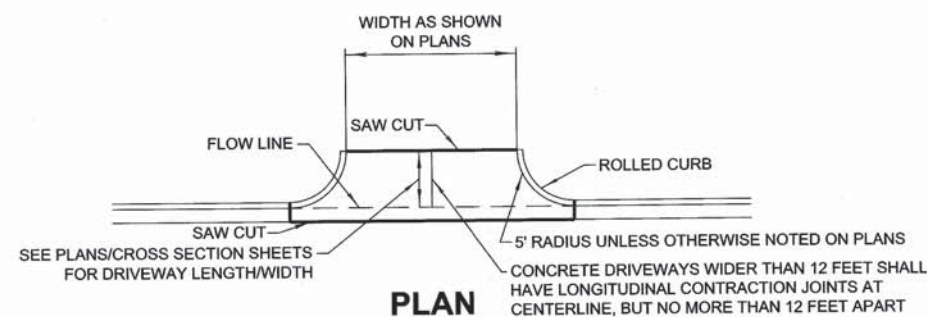
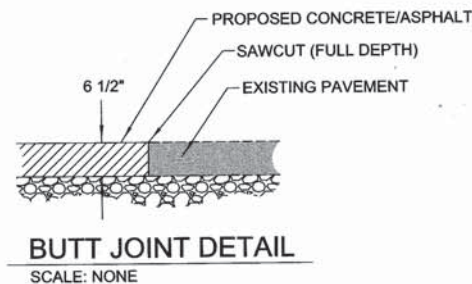
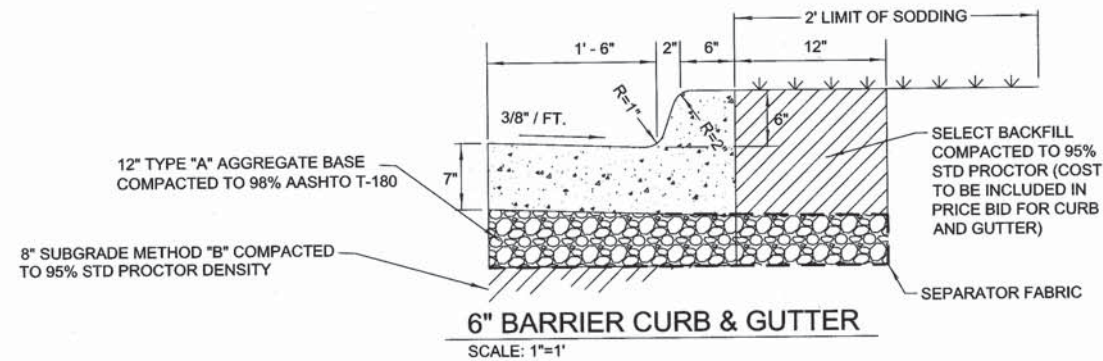
**CAUTION
NOTICE TO CONTRACTOR**

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

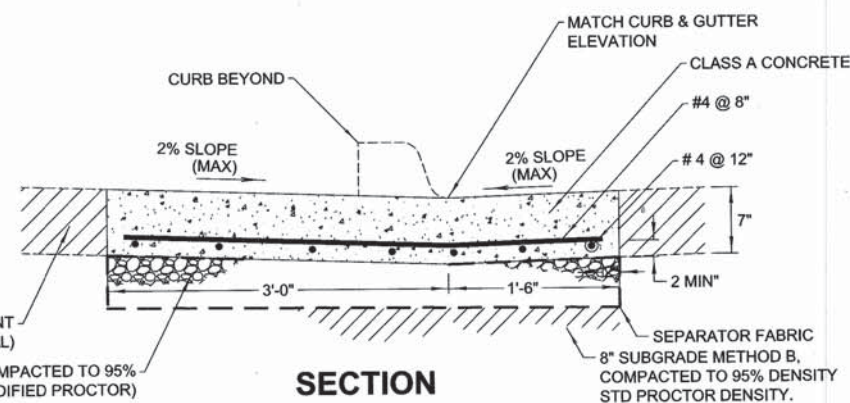
REVISION	BY	DATE

TYPICAL SECTIONS & DETAILS			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CMB 1400 EXP. DATE 6-30-2023 (918)504-5858 TULSA, OK 74103		
PLAN SCALE:	DRAWN: LKW	RJP	2/2021
DESIGNED:	LKW	RWB	2/2021
SURVEY:	RWB		
PROFILE SCALE:	PROJ MGR:	JH	5/22
HORIZONTAL:	LEAD ENGR:	D 6/22	
FIELD MGR:		RWB	6/22
RECOMMENDED:		HAS	8-2-22
DESIGN MANAGER:			
FILE:	DRAWING:		DATE:
ATLAS PAGE NO:	471		SHEET 6 OF 41 SHEETS

PATH: \\Civil-Server\Projects\2040150 MZ 8057\Drawg\Production\2040150 DETAILS.dwg
 FILE: 2040150 DETAILS.dwg
 DATE: May 17, 2022 - 11:16AM



PROFILE
CONCRETE DRIVEWAY DETAIL
SCALE: NONE



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

CONCRETE VALLEY GUTTER DETAIL
SCALE: NONE

NOTE:
AT INTERSECTION OF S MARION AVE AND E 63RD ST S,
AND S OSWEGO AVE AND E 62ND ST S.

CAUTION
NOTICE TO CONTRACTOR

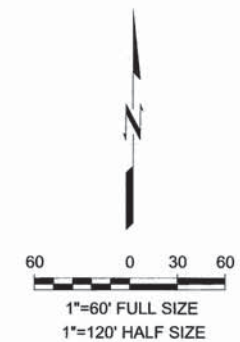
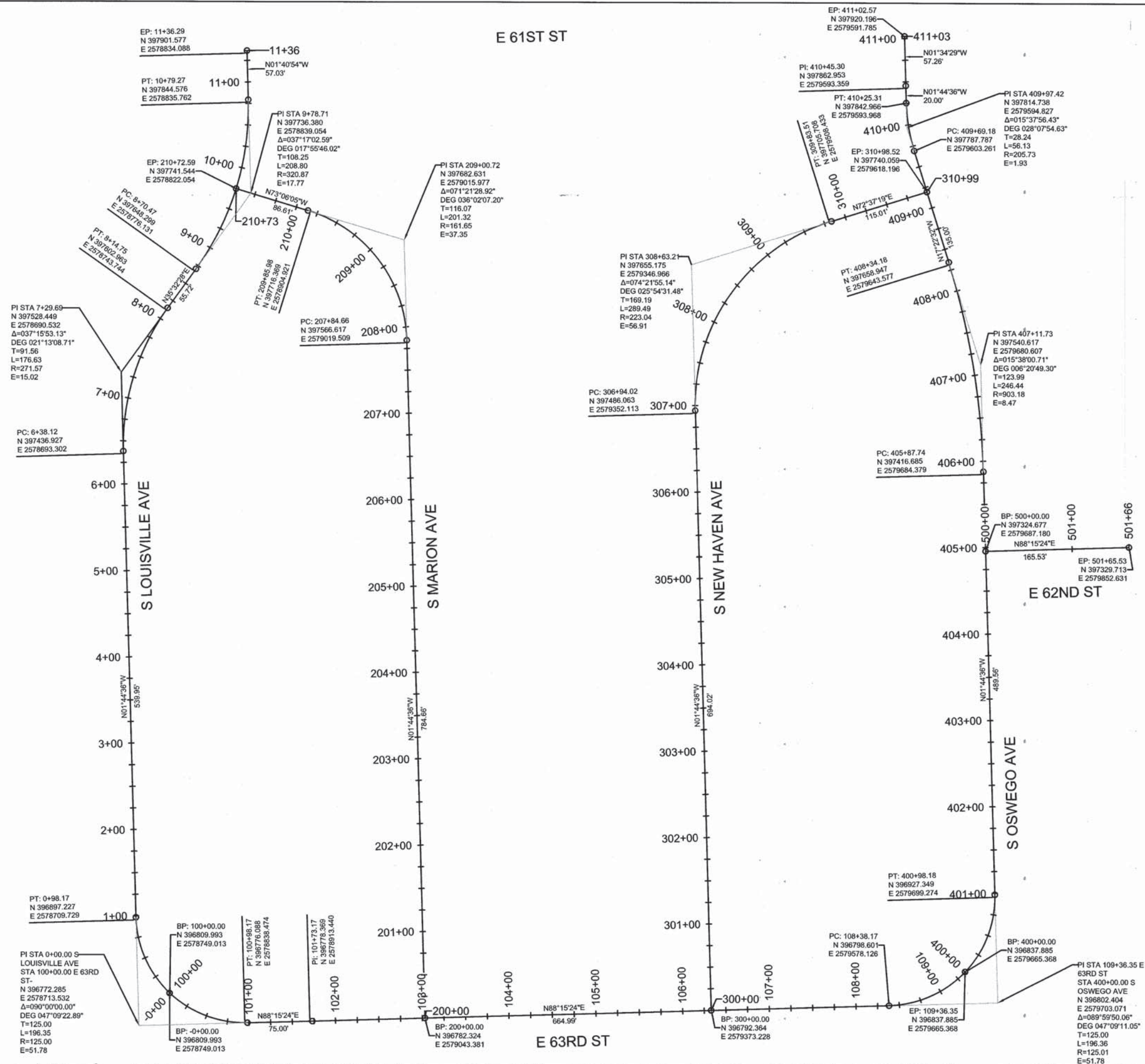
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE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

REVISION				BY	DATE

TYPICAL SECTIONS & DETAILS			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING, JR. BLVD CAB 1460 EXP. DATE 6-30-2023	(918)684-5868 TULSA, OK 74103	
PLAN SCALE:	DRAWN: RJP 2/2021	APPROVED:	
	DESIGNED: LKW 2/2021		
	SURVEY: RWB 2/2021		
PROFILE SCALE:	PROJ MGR: JH 5/22		
HORIZONTAL:	LEAD ENGR: JH 6/22		
	FIELD MGR: JH 6/22		
	RECOMMENDED: HAS 8-22		
	DESIGN MANAGER: JH 8-22		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET	7 OF 41 SHEETS



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FOR P&P SHEET INDEX RE: SHEET 22

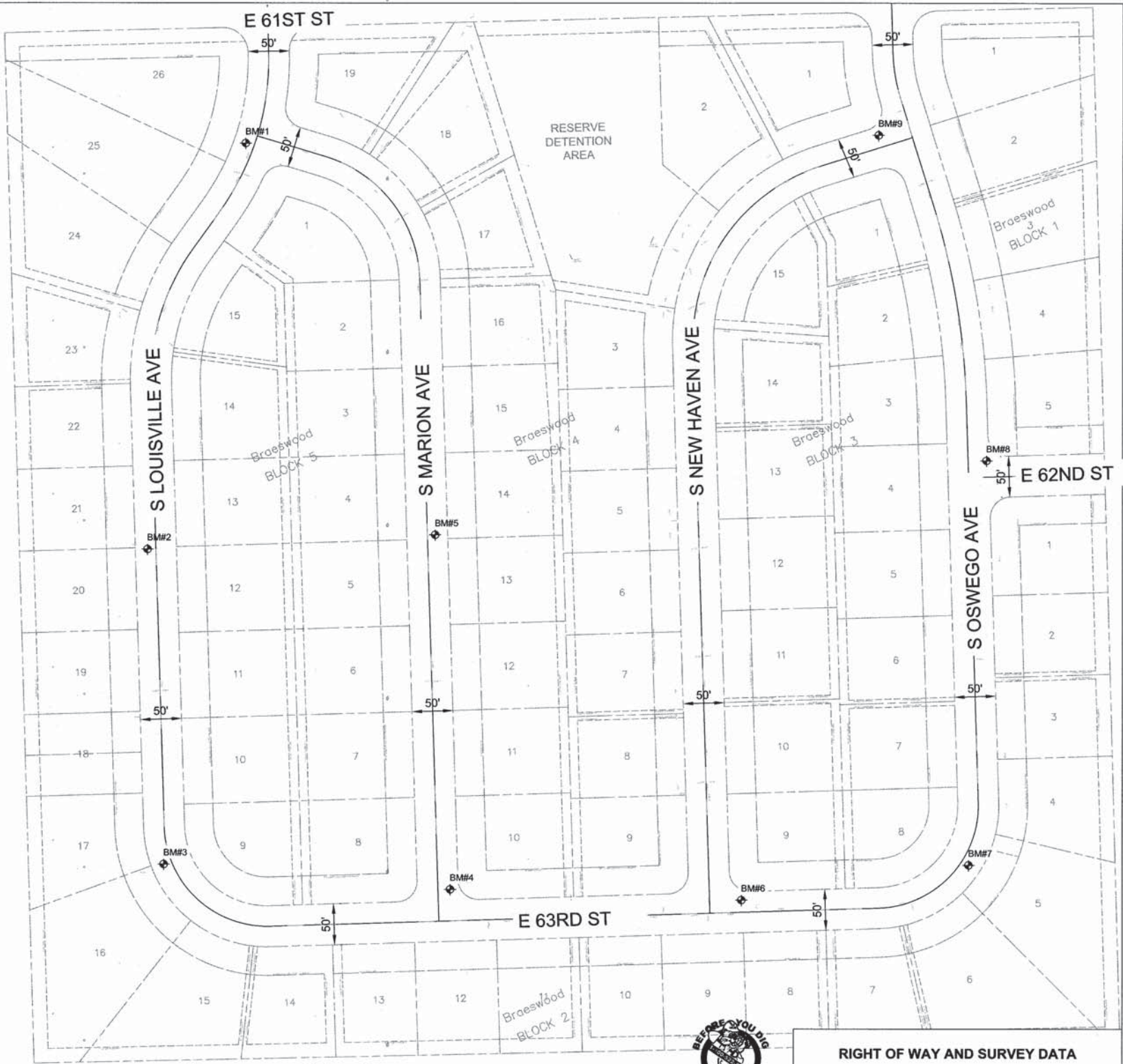
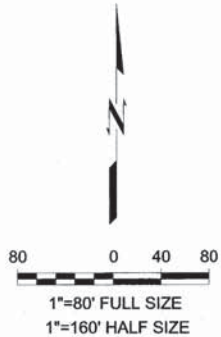


CAUTION
NOTICE TO CONTRACTOR
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REVISION	BY	DATE

GEOMETRICS			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAB 1400 EXP. DATE 6-30-2023	(918)584-5858 TULSA, OK 74103	APPROVED
PLAN SCALE:	DRAWN	RJP	2/2021
1"=60'	DESIGNED	LKW	2/2021
	SURVEY	RWB	2/2021
PROFILE SCALE:	PROJ MGR.	JA	5/22
	LEAD ENGR.	6/22	
HORIZONTAL:	FIELD MGR.	6/22	
	RECOMMENDED	6/22	
	DESIGN MANAGER	6/22	
FILE:	DRAWING:		DATE:
ATLAS PAGE NO: 471			SHEET 8 OF 41 SHEETS

BRAESWOOD				
LOT	BLOCK	OWNER	PARCEL ID	ADDRESS
1	1	EDMISTON, JENNIFER I. & ROBERT L. MELTON II	04680-83-04-04120	6105 S OSWEGO AVE E
2	1	BROWNSON, LYNDA D. REVOCABLE TRUST	04680-83-04-04140	6115 S OSWEGO AVE E
3,4	1	JOHNSON, COYOTE	04680-83-04-04160	6131 S OSWEGO AVE E
5	1	ROBINSON, CHRIS A. & SUSAN	04680-83-04-04180	4011 E 62ND ST S
1	2	WAHL, THOMAS W. TRUST	04680-83-04-04190	6203 S OSWEGO AVE E
2	2	O'DONNELL, MITCHELL D. & MARY V. TRUST	04680-83-04-04200	6211 S OSWEGO AVE E
3	2	SELLER, JACKIE L. TRUST	04680-83-04-04210	6219 S OSWEGO AVE E
4	2	MEYERS, RICHARD & GLORIA TRUST	04680-83-04-04220	6227 S OSWEGO AVE E
5	2	KACHE FAMILY TRUST	04680-83-04-04230	6233 S OSWEGO AVE E
6	2	ALEXANDER, ROSS R. TRUST & CAITLIN O. SCHEIN TRUST	04680-83-04-04250	3922 E 63RD ST S
7	2	MILLER, LARRY F. & RITA M. TRUST	04680-83-04-04270	3914 E 63RD ST S
8	2	DENNIS, JOHN S. & CRYSTAL S. TRUST	04380-83-04-04280	3906 E 63RD ST S
9	2	COX, ROBERT W. & GEORGANNE	04680-83-04-04290	3902 E 63RD ST S
10	2	TIPTON, D. STEVEN & JANICE L. TRUST	04680-83-04-04300	3818 E 63RD ST S
11	2	SHIPMAN FAMILY TRUST	04680-83-04-04310	3810 E 63RD ST S
12	2	HPA BORROWER 3016-1 LLC	04680-83-04-04320	3804 E 63RD ST S
13	2	HANNAGAN, KATHLEEN M. & DAVID R. TRUST	04680-83-04-04330	3716 E 63RD ST S
14	2	PARRISH, GILLIAM Y.	04680-83-04-04340	3710 E 63RD ST S
15	2	RIDDLE, STEPHANIE J. & BRUCE T. TRUST	04680-83-04-04350	3702 E 63RD ST S
16	2	BENNETT, JENNIFER SUSAN TRUST	04680-83-04-04370	6168 S LOUISVILLE AVE E
17	2	KETCHUM, BETTY JEAN HAUN TRUST	04680-83-04-04390	6162 S LOUISVILLE AVE E
18,19	2	GRAU, ANNE	04680-83-04-04410	6150 S LOUISVILLE AVE E
20	2	KAHAN, AARON DANIEL & SUSAN J. TRUSTS	04680-83-04-04420	6138 S LOUISVILLE AVE E
21	2	MANNAN, MOHAMMED & MAKTUMA AKTER	04680-83-04-04430	6130 S LOUISVILLE AVE E
22	2	GOLD, COLEEN M. TRUST	04680-83-04-04440	6124 S LOUISVILLE AVE E
23	2	BRYCE, RHONDA A. TRUST	04680-83-04-04450	6116 S LOUISVILLE AVE E
24	2	GAWEY, CHUCK REVOCABLE TRUST	04680-83-04-04460	6108 S LOUISVILLE AVE E
25	2	POTTEIGER, ERIC W. REVOCABLE TRUST	04680-83-04-04480	6104 S LOUISVILLE AVE E
1	3	STOVALL, JAMES WAYNE & CRYSTAL	04680-83-04-04520	6122 S OSWEGO AVE E
2	3	CIZEK, EDWARD J. JR. & JANET K.	04680-83-04-04530	6130 S OSWEGO AVE E
3,4	3	MCGRATH, JOHN M.	04680-83-04-04550	6144 S OSWEGO AVE E
5,6	3	OKADA, CAROLYN R. & ROBERT D.	04680-83-04-04560	6208 S OSWEGO AVE E
7	3	KEKRAAI, BARBARA J. 1990 REVOCABLE TRUST	04680-83-04-04580	6224 S OSWEGO AVE E
8	3	SHUPPER, STEPHEN B.	04680-83-04-04590	6232 S OSWEGO AVE E
9	3	KINNISON, PATRICK & GINA	04680-83-04-04600	6167 S NEW HAVEN AVE E
10	3	FILSTRUP, SCOTT H. & MARGARET M.	04680-83-04-04310	6159 S NEW HAVEN AVE E
11	3	DAVIDSON, JOHN K. & BILLY J.	04680-83-04-04620	6151 S NEW HAVEN AVE E
12	3	SOREM, JAMES R. JR. & GENTRA	04680-83-04-04630	6143 S NEW HAVEN AVE E
13	3	SULLENBERGER, ALFRED G. & LAURA R. REVOCABLE TRUST	04680-83-04-04640	6135 S NEW HAVEN AVE E
14	3	BROTHER, COMMELLA J. TRUST	04680-83-04-04650	6125 S NEW HAVEN AVE E
15	3	SULLIVAN, DAVID & MARILYN	04680-83-04-04660	6115 S NEW HAVEN AVE E
1,2	4	YOUND, DAVID S. & JENNIFER	04680-83-04-04670	6106 S OSWEGO AVE E
		CITY OF TULSA RESERVE	04680-83-04-05100	
3	4	CRENSHAW, WILLIAM KEITH & SANDRA MAE	04680-83-04-04730	6124 S NEW HAVEN AVE E
4	4	DURBIN, ROBERT S.	04680-83-04-04740	6128 S NEW HAVEN AVE E
5	4	WILLIS, GARY MICHAEL & CLARA ELENA ACOSTA	04680-83-04-04750	6136 S NEW HAVEN AVE E
6	4	RASKIN, ROBERT HART & AMY L. MILLER	04680-83-04-04760	6144 S NEW HAVEN AVE E
7	4	SLATTERY, SUSAN A. & JEFFREY P.	04680-83-04-04770	6152 S NEW HAVEN AVE E
8	4	PRATS, JORGE J. & LOUISA REVOCABLE TRUST	04680-83-04-04780	6160 S NEW HAVEN AVE E
9	4	BERMAN, LAURIE G. & ROBERT E.	04680-83-04-04790	6168 S NEW HAVEN AVE E
10	4	RYAN, JERRY E.	04680-83-04-04800	6171 S MARION AVE E
11	4	FISCHER, JOHN C. & NATALIE S. TRUST	04680-83-04-04810	6163 S MARION AVE E
12	4	OGDEN, TIMOTHY D. & TARA L. TRUST	04680-83-04-04820	6155 S MARION AVE E
13	4	BOUTELLER, JO KAREN	04680-83-04-04830	6147 S MARION AVE E
14	4	BROWN, LACY L. & LARRY D.	04680-83-04-04840	6139 S MARION AVE E
15	4	HAUGER, ROBERT B. & ALICE C.	04680-83-04-04850	6131 S MARION AVE E
16	4	HUNT, KERBY & ALLISON REED	04680-83-04-04860	6125 S MARION AVE E
17	4	CARSTENS, MARY C. REVOCABLE TRUST	04680-83-04-04870	6117 S MARION AVE E
18,19	4	HERRON, JOSHUA	04680-83-04-04890	6109 S MARION AVE E
1	5	GUERTIN, CAROL	04680-83-04-04940	6122 S MARION AVE E
2	5	SANDITEN REVOCABLE TRUST	04680-83-04-04960	6130 S MARION AVE E
3	5	FOX, KENDALL MARK & PAULA JEAN	04680-83-04-04970	6138 S MARION AVE E
4	5	BABB, JANNELLE G. TRUST	04680-83-04-04980	6140 S MARION AVE E
5	5	HARDIN, PATRICIA TRUST	04680-83-04-04990	6148 S MARION AVE E
6	5	ABEL, MARC L.	04680-83-04-05000	6156 S MARION AVE E
7	5	FIELD, LAWRENCE D. & CYNTHIA S.	04680-83-04-05010	6164 S MARION AVE E
8	5	BYRNE, BILL WEYMAN & MARY J.	04680-83-04-05020	6172 S MARION AVE E
9	5	LANGHOLZ, LAURENCE H. & ALYSON M.	04680-83-04-05030	6161 S LOUISVILLE AVE E
10	5	BOYLE, RON & DANETTE TRUST	04680-83-04-05040	6153 S LOUISVILLE AVE E
11	5	MONAHAN, VIRGINIA HELEN REVOCABLE TRUST	04680-83-04-05050	6145 S LOUISVILLE AVE E
12	5	STREIGHT, ROBERT A. & DEBRA L.	04680-83-04-05060	6137 S LOUISVILLE AVE E
13	5	BOLIVER TRUST	04680-83-04-05070	6129 S LOUISVILLE AVE E
14	5	HAYS, CLINTON C. TRUST	04680-83-04-05080	6119 S LOUISVILLE AVE E
15	5	TALLEY, DEBORAH A. & JACK D. TRUST	04680-83-04-05090	6109 S LOUISVILLE AVE E



Topographic Survey
of A Part of Braeswood
City of Tulsa
Tulsa County, Oklahoma
Surveyor's Certification

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

THIS TOPO SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 19TH DAY OF APRIL, 2021.



Cliff Bennett
4-19-21

CAUTION
NOTICE TO CONTRACTOR

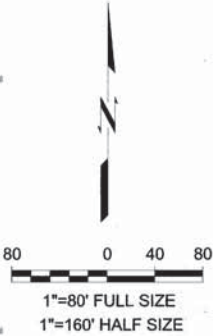
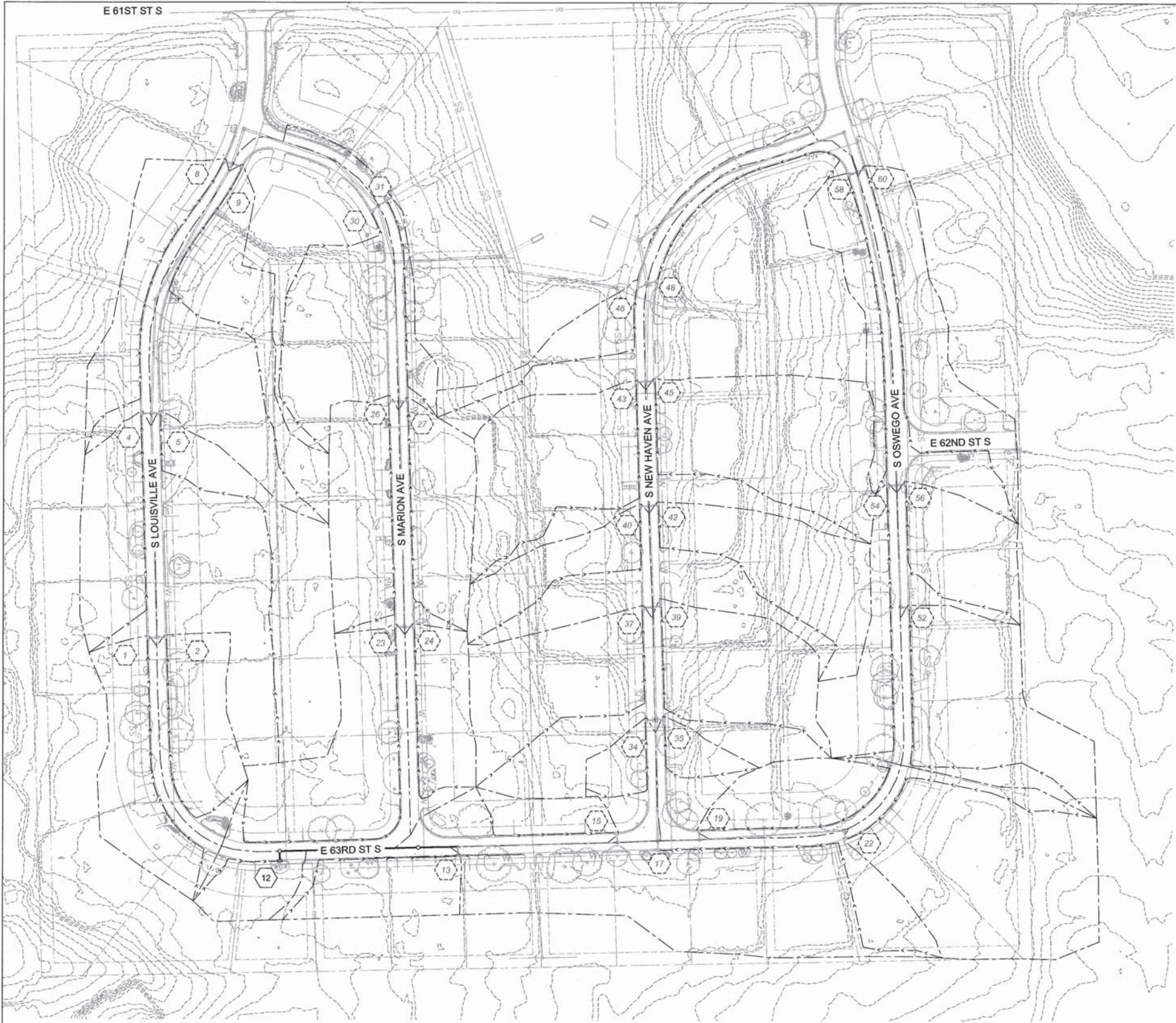
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE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

REVISION	BY	DATE

RIGHT OF WAY AND SURVEY DATA			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CMA 1400, 830P, DATE 8-30-2023 (918)584-5868 TULSA, OK 74103		
PLAN SCALE:	DRAWN	RJP	2/2021
1"=80'	DESIGNED	LKW	2/2021
	SURVEY	RWB	2/2021
PROFILE SCALE:	PROJ MGR.	JH	5/22
HORIZONTAL:	LEAD ENGR.	D	6/22
N/A	FIELD MGR.	Roulette	
N/A	RECOMMENDED	HHS 8-22	
	DESIGN MANAGER		
FILE:	DRAWING:		DATE:
ATLAS PAGE NO: 471			SHEET 9 OF 41 SHEETS

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z

PATH: \\Civil-Server\Projects\2040150 MZ 8057\Drawg\Production\2040150 RW AND SURVEY DATA.dwg
FILE: 2040150 RW AND SURVEY DATA.dwg
DATE: May 17, 2022 - 11:21AM



NOTE:
DRAINAGE AREAS OUTSIDE RDY
RW APPROXIMATED FROM LIDAR
2" CONTOURS FROM OK MAPS.

LEGEND

- EXISTING STRUCTURE TO REMAIN
- PROPOSED STRUCTURE
- DRAINAGE AREA BOUNDARY
- FLOW PATH



CAUTION
NOTICE TO CONTRACTOR
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UTILITIES AS SHOWN ON THESE PLANS ARE BASED
ON RECORDS OF THE VARIOUS UTILITY COMPANIES
AND MEASUREMENTS TAKEN IN THE FIELD.
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MUST CALL THE LOCAL UTILITY LOCATION CENTER
AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO
REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

DRAINAGE MAP			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:		WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD TULSA, OK 74103 (918)584-5858 CA# 1460 EXP. DATE 6-30-2023	
REVISION	BY	DATE	APPROVED
PLAN SCALE:	DRAWN	RJP 2/2021	
DESIGNED	LKW 2/2021		
SURVEY	RWB 2/2021		
PROFILE SCALE:	PROJ. MGR.	JH 5/22	
HORIZONTAL:	LEAD ENGR.	2/26/22	
N/A	FIELD MGR.	2/26/22	
VERTICAL:	RECOMMENDED:	1/18/22	
N/A	DESIGN MANAGER		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET 10	OF 41 SHEETS

\\Civil-Server\Projects\2040150 MZ 8057\Drawg\Production\2040150 DRAINAGE MAP.dwg, 5/17/2022 11:23:36 AM, DWG To PDF.pc3

INLET SUMMARY

DRAINAGE AREA BASIN	INLET NO.	DRAINAGE AREA (SF)	DRAINAGE AREA (ACRES)	PAVED AREA (SF)	GRASS AREA (SF)	"C" FACTOR	REACH GRASS (FEET)	SLOPE GRASS (%)	VELOCITY GRASS (FPS)	REACH PAVING (FEET)	SLOPE PAVING (%)	VELOCITY PAVING (FPS)	REACH GRASSED WATERWAY (FT)	SLOPE GRASSED WATERWAY (%)	VELOCITY GRASSED WATERWAY (FPS)	TOTAL Tc (MIN)	I 100 (IN/HR)	Q 100 (CFS)	Q BYPASS TO INLET (CFS)	% SLOPE AT INLET	SUM Q 100 AT INLET (CFS)	D 100 INLET (FEET)	MAX DEPTH AT INLET (FEET)	INLET MAX CAPACITY (CFS)	Q 100 BYPASS (CFS)	TO STRUCTURE	CLOGGING FACTOR	INLET DESIGN
1	1	29,044.46	0.67	23,556.47	5,487.99	0.85	70.8	0.0388	1.37	304.8	0.0145	2.45			0.00	2.9	11.9	6.72		0.0238	6.72	0.44	0.48	4.92	1.80	4	1	Double Grate Design 2(C)
2	2	25,141.10	0.58	16,833.23	8,307.87	0.77	87.2	0.0300	1.21	248.7	0.0164	2.61			0.00	2.8	12.0	5.32		0.0238	5.32	0.28	0.50	4.06	1.26	5	1	Double Grate Design 2(C)
4	4	27,452.23	0.63	17,333.21	10,119.02	0.75	95.2	0.0337	1.28	260.2	0.0671	5.26			0.00	2.1	12.4	5.84	1.80	0.0833	7.64	0.57	0.34	3.66	3.98	8	1	Double Grate Design 2(D)
5	5	76,306.98	1.75	42,725.37	33,581.61	0.71	120.0	0.0131	0.80	74.4	0.0828	5.85	370.9	0.0457	3.45	4.5	11.1	13.81	1.26	0.0833	15.07	2.22	0.37	7.13	7.95	9	1	Double Grate Design 2(D)
8	8	28,402.43	0.65	14,950.84	13,451.59	0.69	113.8	0.1224	2.44	344.6	0.0258	3.27			0.00	2.5	12.1	5.46	3.98	0.0400	9.44	0.57	0.36	3.78	5.66		1	Double Grate Design 2(D)
9	9	54,987.65	1.26	26,701.04	28,286.61	0.67	120.0	0.0400	1.39	189.7	0.0249	3.21	292.3	0.0662	4.15	3.6	11.6	9.75	7.95	0.0400	17.70	2.64	0.34	5.87	11.83	30	1	Double Grate Design 2(D)
12	12	11,129.08	0.26	8,513.83	2,615.25	0.82	73.7	0.0360	1.32	65.4	0.0011	0.67			0.00	2.6	12.1	2.54		sump	2.54	2.64	0.30	3.00	0.00	13	0.7	Double Grate Design 2
13	13	20,006.67	0.46	13,203.24	6,803.43	0.76	96.2	0.0466	1.50	182.8	0.0241	3.15			0.00	2.0	12.4	4.35		0.0435	4.35	0.38	0.43	2.52	1.83	17	1	Double Grate Design 2
15	15	16,519.70	0.38	8,350.87	8,168.83	0.68	71.3	0.0417	1.42	158.0	0.0415	4.14			0.00	1.5	12.8	3.28		0.0385	3.28	0.32	0.41	2.21	1.07	34	1	Double Grate Design 2
17	17	75,830.01	1.74	49,886.99	25,943.02	0.76	107.3	0.0401	1.24	237.2	0.0401	4.07	143.1	0.0419	3.30	3.1	11.8	15.67	6.44	sump	22.11	2.99	0.75	8.76	13.35	34	0.7	Double Grate Design 2(2D)
19	19	21,597.82	0.50	11,874.62	9,723.20	0.70	79.0	0.0091	0.66	285.9	0.0440	4.26			0.00	3.1	11.8	4.12		0.0400	4.12	0.37	0.39	2.38	1.74	35	1	Double Grate Design 2
22	22	62,930.15	1.44	28,588.91	34,341.24	0.65	148.1	0.0405	1.40	230.5	0.0462	4.37			0.00	2.6	12.1	11.34		0.0625	11.34	1.26	0.42	6.73	4.61	17	1	Double Grate Design 2(D)
23	23	43,502.10	1.00	25,627.95	17,874.15	0.72	82.8	0.0242	1.08	474.3	0.0126	2.28			0.00	4.7	11.0	7.98		0.0169	7.98	0.62	0.54	6.53	1.45	26	1	Double Grate Design 2(D)
24	24	20,512.57	0.47	12,942.38	7,570.19	0.75	83.3	0.0120	0.76	222.3	0.0133	2.34			0.00	3.4	11.7	4.11		0.0169	4.11	0.37	0.17	1.98	2.12	27	1	Double Grate Design 2
26	26	28,988.08	0.67	18,863.56	10,124.52	0.76	83.9	0.0715	1.86	282.2	0.0554	4.78			0.00	1.7	12.6	6.35	1.45	0.0833	7.80	0.41	0.31	4.46	3.35	30	1	Quad Grate Design 4
27	27	26,827.37	0.62	17,748.33	9,079.04	0.76	87.0	0.0022	0.33	262.8	0.0581	4.90			0.00	5.4	10.8	5.07	2.12	0.0833	7.19	0.54	0.09	1.48	5.72	31	1	Double Grate Design 2
30	30	59,911.85	1.38	29,771.37	30,140.48	0.67	115.7	0.0605	1.71	56.1	0.0870	6.00	267.5	0.0717	4.32	2.3	12.3	11.35	15.18	sump	26.53	2.87	0.75	8.76	17.77		0.7	Double Grate Design 2(2D)
31	31	12,162.03	0.28	7,364.10	4,797.93	0.73	57.9	0.0836	2.01	249.7	0.0573	4.86			0.00	1.3	12.8	2.63	3.59	sump	6.22	0.38	0.75	8.76	0.00		0.7	Double Grate Design 2(2D)
34	34	11,166.74	0.26	8,347.00	2,819.74	0.81	86.3	0.0740	1.89	89.0	0.0702	5.39			0.00	1.0	13.0	2.71	14.42	0.0909	17.13	1.53	0.20	1.81	15.32	37	1	Double Grate Design 2(2C)
35	35	12,817.62	0.29	6,714.75	6,102.87	0.69	140.0	0.0822	2.00	56.4	0.0770	5.64			0.00	1.3	12.8	2.60	1.74	0.0909	4.34	0.19	0.15	1.88	2.45	39	1	Quad Grate Design 4(D)
37	37	47,929.37	1.10	28,938.18	18,991.19	0.73	147.3	0.0840	2.02	124.1	0.0832	5.86	115.2	0.0727	4.35	2.0	12.4	10.02	10.71	0.0769	20.73	1.16	0.39	6.95	13.78	40	1	Double Grate Design 2(2D)
39	39	38,613.10	0.89	26,752.59	11,860.51	0.78	102.4	0.1019	2.22	135.6	0.0854	5.94	140	0.0822	4.63	1.7	12.6	8.76	2.45	0.0769	11.21	0.34	0.16	5.14	6.07	42	1	Quad Grate Design 4(C)
40	40	27,668.95	0.64	15,688.17	11,980.78	0.71	130.1	0.1348	2.56	100.4	0.0816	5.81	111.6	0.1039	5.20	1.5	12.7	5.76	15.32	0.0455	21.08	0.76	0.58	4.84	16.25	43	1	Double Grate Design 2(2C)
42	42	43,999.49	1.01	20,062.23	23,937.26	0.65	138.9	0.0946	2.14	54.8	0.0536	4.71	197.2	0.1303	5.82	1.8	12.5	8.24	6.07	0.0455	14.31	1.37	0.54	6.33	7.98	45	1	Double Grate Design 2(2C)
43	43	44,531.69	1.02	22,809.34	21,722.35	0.68	121.1	0.1817	2.97	151.6	0.0137	2.38	157.3	0.1011	5.13	2.3	12.3	8.57	16.25	0.0139	24.82	0.88	0.44	6.61	18.20	46	1	Double Grate Design 2(D)
45	45	55,643.73	1.28	28,889.23	26,754.50	0.69	141.6	0.1164	2.38	122.7	0.0127	2.29	163	0.1437	6.12	2.3	12.3	10.73	7.98	0.0139	18.71	1.56	0.29	6.81	11.90	48	1	Double Grate Design 2(D)
46	46	27,411.55	0.63	14,308.65	13,102.90	0.69	149.1	0.1291	2.50	102.4	0.0324	3.66	114.5	0.0611	3.99	1.9	12.5	5.39	18.20	sump	23.59	0.53	0.75	8.76	14.84		0.7	Double Grate Design 2(2D)
48	48	69,880.43	1.60	26,045.29	43,835.14	0.60	37.4	0.1045	2.25	321.4	0.0848	5.92			0.00	1.2	12.9	12.56	15.50	sump	28.06	3.35	0.75	8.76	19.30		0.7	Double Grate Design 2(2D)
52	52	45,410.62	1.04	25,366.27	20,044.35	0.71	125.3	0.0160	0.88	206.5	0.0178	2.71	149.4	0.0712	4.30	4.2	11.3	8.31		0.0196	8.31	0.68	0.52	5.01	3.30	56	1	Double Grate Design 2
54	54	21,950.74	0.50	14,329.10	7,621.64	0.76	83.0	0.0094	0.67	351.8	0.0177	2.70			0.00	4.2	11.3	4.31		0.0149	4.31	0.38	0.29	2.73	1.59	58	1	Double Grate Design 2
56	56	24,455.25	0.56	15,491.26	8,963.99	0.75	143.3	0.0628	1.74	139.7	0.0427	4.20			0.00	1.9	12.5	5.25	3.30	0.0149	8.55	0.71	0.12	2.72	5.83	60	1	Double Grate Design 2(C)
58	58	18,868.27	0.43	12,241.62	6,626.65	0.76	35.3	0.0414	1.42	396.6	0.0307	3.56			0.00	2.3	12.3	4.03	1.59	0.0435	5.61	0.46	0.13	2.01	3.60	48	1	Double Grate Design 2
60	60	43,142.71	0.99	22,317.58	20,825.13	0.68	107.8	0.0699	1.84	482.4	0.0336	3.73			0.00	3.1	11.8	8.01	5.83	0.0435	13.84	1.09	0.53	5.77	8.07		1	Double Grate Design 2(D)



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REVISION	BY	DATE

INLET SUMMARY			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CMA 1460 EXP. DATE 6-30-2023	(918)594-5858 TULSA, OK 74103	APPROVED
PLAN SCALE:	DRAWN: RJP 2/2021	DESIGNED: LKW 2/2021	SURVEY: RWB 2/2021
PROFILE SCALE:	PROJ MGR: JH 5/22	LEAD ENGR: [Signature] 6/22	FIELD MGR: [Signature] 6/22
HORIZONTAL:	N/A	RECOMMENDED:	DESIGN MANAGER: [Signature] 8-22
VERTICAL:	N/A	DATE:	CITY ENGINEER: [Signature]
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET 11	OF 41 SHEETS

\\C:\Server\Projects\2040150 MZ 8057\Drawg\Production\2040150 DRAINAGE MAP.dwg
FILE: 2040150 DRAINAGE MAP.dwg
DATE: May 17, 2022 - 11:24AM

PIPE SUMMARY

STR NO	P&P SHT	Q IN PIPE (CFS)	Q CAPACITY (CFS)	UPSTREAM INVERT (FT)	HEADLOSS COEFFICIENT	PIPE DIA (IN)	n	FRICT SLOPE (F/FT)	INVERT SLOPE (F/FT)	UPSTREAM DEPTH (FT)	DOWNSTREAM DEPTH (FT)	FLOW AREA (SF)	VELOCITY (FPS)	PIPE LENGTH (FT)	HG UPSTREAM (FT)	EG UPSTREAM (FT)	TG UPSTREAM (FT)	DOWNSTREAM INVERT (FT)	HG DOWNSTREAM (FT)	EG DOWNSTREAM (FT)	TG DOWNSTREAM (FT)	TO STR NO
1	1	4.92	21.98	764.56	0.5	15	0.013	0.059	0.116	0.90	1.61	0.3	14.43	9.5	765.46	765.88	769.26	763.46	765.07	765.32	769.56	3
2	1	4.06	26.34	765.09	0.5	15	0.013	0.111	0.166	0.82	1.51	0.3	15.56	9.2	765.91	766.26	769.29	763.56	765.07	765.24	769.56	3
3	1	8.98	26.14	763.31	0.6	18	0.013	0.059	0.062	1.16	2.15	0.7	13.42	296.4	764.47	765.05	769.56	744.95	747.10	747.50	751.65	6
4	2	3.66	22.30	746.24	0.5	15	0.013	0.010	0.119	0.77	2.10	0.3	13.41	10.4	747.01	747.34	751.34	745.00	747.10	747.24	751.65	6
5	2	7.13	26.97	746.58	0.5	15	0.013	0.080	0.174	1.07	1.95	0.4	18.56	8.2	747.65	748.28	751.33	745.15	747.10	747.62	751.65	6
6	2	19.77	42.53	744.50	1.0	24	0.013	0.035	0.035	1.60	1.90	1.5	13.29	149.1	746.10	746.94	751.65	739.23	741.13	741.77	746.33	7
7	2	19.77	30.80	738.93	0.6	24	0.013	0.015	0.019	1.60	2.55	1.9	10.41	205.5	740.53	741.37	746.33	735.12	737.67	738.28	741.52	10
8	3	3.78	20.08	736.67	0.5	15	0.013	0.003	0.097	0.96	1.85	0.3	12.56	8.8	737.63	737.85	741.32	735.82	737.67	737.82	741.52	10
9	3	5.87	23.97	737.18	0.5	15	0.013	0.060	0.138	0.98	1.95	0.4	16.14	10.6	738.16	738.66	741.13	735.72	737.67	738.03	741.52	10
10	3	29.42	96.57	734.82	1.0	30	0.013	0.026	0.055	1.85	3.53	1.7	17.26	46.0	736.67	737.56	741.52	732.27	735.80	736.35	739.57	11
11	3	29.42	36.12	732.07	0.8	30	0.013	0.005	0.008	2.93	3.25	3.6	5.99	123.8	734.99	735.55	739.57	731.11	734.36	734.92	738.61	33
12	4	3.00	10.21	770.59	0.5	15	0.013	0.002	0.025	1.05	1.30	0.4	7.24	9.6	771.64	771.76	773.51	770.35	771.65	771.74	773.70	12A
12A	4	3.00	10.43	770.35	0.6	15	0.013	0.024	0.026	0.70	0.46	0.4	7.34	180.5	771.05	771.33	773.70	765.64	766.10	766.94	771.60	12B
12B	4	3.00	4.52	763.64	0.6	15	0.013	0.002	0.005	1.42	1.55	0.8	2.44	49.0	765.06	765.15	771.60	763.40	764.95	765.04	769.60	14
13	4	2.52	24.47	764.82	0.8	15	0.013	0.075	0.143	0.64	1.45	0.2	12.86	9.2	765.46	765.71	769.12	763.50	764.95	765.02	769.60	14
14	4	5.52	12.84	763.40	0.8	15	0.013	0.038	0.039	0.95	1.50	0.5	10.07	208.9	764.35	764.82	769.60	755.15	756.65	756.97	761.40	16
15	5	2.21	16.64	755.65	0.5	15	0.013	0.001	0.066	0.99	1.65	0.2	9.41	9.8	756.64	756.71	760.85	755.00	756.65	756.70	761.40	16
16	5	7.73	14.37	754.95	0.6	15	0.013	0.032	0.050	1.10	2.08	0.6	11.93	50.1	756.05	756.78	761.40	752.47	754.55	755.16	760.32	18
17	5	8.76	24.09	753.25	0.5	15	0.013	0.018	0.139	1.47	2.58	0.5	7.14	9.2	754.72	755.51	759.50	751.97	754.55	755.34	760.32	18
18	5	25.60	49.02	751.77	1.0	24	0.013	0.041	0.047	1.78	2.80	1.6	15.77	159.1	753.55	754.72	760.32	744.30	747.10	748.13	751.65	36
19	5	2.38	7.53	755.35	0.5	12	0.013	0.004	0.045	1.28	1.66	0.3	3.03	9.4	756.63	756.77	760.70	754.93	756.59	756.73	760.93	20
20	5	9.11	14.91	754.83	0.6	15	0.013	0.029	0.053	1.16	2.48	0.7	12.75	51.8	755.99	756.90	760.93	752.07	754.55	755.40	760.32	18
21	6	6.73	13.46	763.22	0.7	15	0.013	0.041	0.043	1.04	1.56	0.6	10.97	188.7	764.26	764.85	769.87	755.03	756.59	757.06	760.93	20
22	6	6.73	18.60	764.15	0.5	15	0.013	0.040	0.083	1.04	1.54	0.5	13.95	8.8	765.19	765.78	769.35	763.42	764.96	765.43	769.87	21
23	7	6.53	17.12	763.33	0.5	15	0.013	0.051	0.070	1.03	1.34	0.5	13.01	9.4	764.36	764.93	768.03	762.67	764.01	764.45	768.47	25
24	7	1.98	13.51	763.75	0.5	12	0.013	0.052	0.144	0.60	1.64	0.2	12.29	9.6	764.35	764.60	768.05	762.37	764.01	764.11	768.47	25
25	7	8.51	14.62	762.27	0.6	15	0.013	0.049	0.051	1.14	1.73	0.7	12.37	297.4	763.41	764.23	768.47	747.03	748.76	749.51	753.03	28
26	8	4.46	18.72	747.82	0.5	15	0.013	0.009	0.084	0.86	1.83	0.4	12.52	10.6	748.68	749.06	752.37	746.93	748.76	748.97	753.03	28
27	8	1.48	13.71	748.13	0.5	12	0.013	0.004	0.148	0.52	1.83	0.1	11.42	8.1	748.65	748.85	752.53	746.93	748.76	748.82	753.03	28
28	8	14.45	17.85	746.53	1.0	15	0.013	0.068	0.076	1.23	0.85	0.9	16.20	182.9	747.76	749.93	753.03	732.56	733.41	737.49	739.56	29
29	8	61.39	139.38	728.11	0.7	30	0.013	0.066	0.115	2.40	1.21	2.2	27.50	138.8	730.51	733.01	739.56	712.08	713.29	723.84	724.98	29A
30	9	8.76	20.43	732.53	0.5	15	0.013	0.043	0.100	1.15	1.76	0.5	16.02	9.5	733.68	734.53	736.93	731.58	733.34	734.13	737.38	32
31	9	8.76	22.54	732.61	0.5	15	0.013	0.048	0.122	1.15	1.96	0.5	17.20	10.1	733.76	734.61	737.11	731.38	733.34	734.13	737.38	32
32	9	46.94	63.68	730.08	1.0	30	0.013	0.017	0.024	2.26	2.95	3.3	14.19	75.5	732.34	733.91	737.38	728.26	731.21	732.63	739.56	29
33	9	29.42	40.05	730.96	0.6	30	0.013	0.005	0.010	2.80	3.16	3.3	5.99	81.8	733.76	734.32	738.61	730.18	733.34	733.90	737.38	32
34	10	1.81	21.00	746.41	0.5	15	0.013	0.001	0.106	0.53	1.80	0.2	10.48	10.5	746.94	747.15	751.36	745.30	747.10	747.13	751.65	36
35	10	1.88	27.89	746.46	0.5	15	0.013	0.009	0.186	0.55	2.15	0.1	12.95	8.1	747.01	747.21	751.66	744.95	747.10	747.14	751.65	36
36	10	29.29	62.84	744.25	1.0	24	0.013	0.070	0.077	1.85	3.01	1.5	19.66	145.9	746.10	747.55	751.65	732.99	736.00	737.35	739.69	38
37	10	6.95	12.59	734.40	0.5	15	0.013	0.012	0.038	1.72	2.01	0.7	5.66	10.8	736.12	736.62	739.30	733.99	736.00	736.50	739.69	38
38	10	41.38	78.25	732.89	1.0	27	0.013	0.060	0.064	2.11	2.65	2.1	19.96	132.5	735.00	736.77	739.69	724.43	727.08	728.76	730.78	41
39	10	5.14	13.12	733.86	0.5	15	0.013	0.006	-0.041	2.19	1.81	1.0	4.19	8.0	736.05	736.32	738.91	734.19	736.00	736.27	739.69	38
40	11	4.48	16.35	724.81	0.5	15	0.013	0.005	-0.064	2.31	1.70	0.9	3.65	8.9	727.12	727.33	730.21	725.38	727.08	727.29	730.78	41
41	11	52.19	95.66	723.73	1.0	36	0.013	0.016	0.021	2.35	3.39	3.8	13.83	164.3	726.08	727.28	730.78	720.35	723.74	724.59	728.40	44
42	11	6.33	17.93	726.02	0.5	15	0.013	0.009	0.077	1.04	1.80	0.5	13.34	9.6	727.06	727.58	730.37	725.28	727.08	727.49	730.78	41
43	11	6.61	19.26	723.03	0.5	15	0.013	0.045	0.089	1.03	1.59	0.5	14.23	9.9	724.06	724.64	728.03	722.15	723.74	724.20	728.40	44
44	11	65.61	134.15	720.15	1.0	36	0.013	0.034	0.040	2.59	3.70	3.5	18.87	127.3	722.74	724.33	728.40	715.00	718.70	720.04	727.05	47
45	11	6.81	18.58	722.57	0.5	15	0.013	0.011	0.083	1.27	1.89	0.5	5.55	8.7	723.84	724.32	728.02	721.85	723.74	724.22	728.40	44
46	11	8.76	31.34	719.73	0.5	15	0.013	0.194	0.235	1.15	1.70	0.4	21.89	11.6	720.88	721.73	726.68	717.00	718.70	719.49	727.05	47
47	11	83.13	141.28	714.90	1.0	36	0.013	0.021	0.045	2.80	1.97	4.0	20.80	54.6	717.70	719.98	727.05	712.45	714.42	718.85	728.56	49
48	11	8.76	30.82	718.85	0.5	15	0.013	0.135	0.228	1.15	2.15	0.4	21.63	10.1	720.00	720.85	726.85	716.55	718.70	719.49	727.05	47
49	11	101.37	129.92	710.45	0.9	60	0.013	0.003	0.002	3.11	2.87	13.9	7.32	44.2	713.56	714.53	728.56	710.34	713.21	714.38	716.00	OF2
50	12	18.24	40.86	730.69	0.6	21	0.013	0.048	0.066	1.55	0.82	1.1	16.51	135.2	732.24	733.26	741.79	721.70	722.52	726.75	728.56	49
51	12	18.24	41.88	742.63	0.8	21	0.013	0.068	0.070	1.55	2.05	1.1	16.82	169.5	744.18	745.20	752.78	730.79	732.84	733.74	741.79	50
52	13	5.01	18.32	765.10	0.5	15	0.013	0.031	0.080	0.91	1.51	0.4	12.72	8.7	766.01	766.44	769.70	764.40	765.91	766.17	770.15	53
53	13	5.01																				

STORM WATER MANAGEMENT PLAN

REVISIONS	
DESCRIPTION	DATE

SITE DESCRIPTION

PROJECT LIMITS: Maintenance Zone 8057
South of E 61st St on S Louisville, s Marion Ave, s New Haven Ave, S Oswego Ave,
E 62nd St and E 63rd St.

PROJECT DESCRIPTION: Pavement mill and overlay and reconstruction.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:
(1) Install all temporary erosion control measures, install sediment protection around all
existing drainage inlets.

(2) Set traffic control devices to divert thru traffic.

(3) Construct pavement improvements as shown in plans.

(4) Remove all temporary erosion controls, Maintain erosion measures around inlets until
project completion and acceptance.

(5) Install permanent erosion control, solid slab sodding, on all disturbed areas or where
required.

SOIL TYPE: Coweta-Bates, Eram-Coweta complex

TOTAL AREA OF THE
CONSTRUCTION SITE: 6.25 Acres

ESTIMATED AREA TO BE DISTURBED: _____

OFFSITE AREA TO BE DISTURBED:
(FOR CONTRACTOR USE) _____

TOTAL IMPERVIOUS AREA
PRE-CONSTRUCTION: _____

TOTAL IMPERVIOUS AREA
POST-CONSTRUCTION: _____

POST-CONSTRUCTION RUNOFF
COEFFICIENT OF THE SITE: _____

LATITUDE & LONGITUDE
OF CENTER OF PROJECT: 36°04'25.61" N, 95°56'0.10"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: JOE CREEK

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303 (d) IMPAIRED WATERS: YES ☒ NO ☐

IF YES, LIST IMPAIRMENT: _____

LOCATED IN A TMDL: YES ☐ NO ☒

LAKE THUNDERBIRD TMDL: YES ☐ NO ☒

MS4 ENTITY YES ☐ NO ☒

IF YES, LOCATION: _____

NOTE:
THIS 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
- ☒ PERMANENT SODDING, SPRIGGING OR SEEDING
- _____ VEGETATIVE MULCHING
- _____ SOIL RETENTION BLANKET
- ☒ PRESERVATION OF EXISTING VEGETATION

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

STRUCTURAL PRACTICES:

- _____ STABILIZED CONSTRUCTION EXIT
- _____ TEMPORARY SILT FENCE
- _____ TEMPORARY SILT DIKES
- ☒ TEMPORARY FIBER LOG
- _____ DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- _____ DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- _____ ROCK FILTER DAMS
- _____ TEMPORARY SLOPE DRAIN
- _____ PAVED DITCH W/ DITCH LINER PROTECTION
- _____ TEMPORARY DIVERSION CHANNELS
- _____ TEMPORARY SEDIMENT BASINS
- _____ TEMPORARY SEDIMENT TRAPS
- _____ TEMPORARY SEDIMENT FILTERS
- ☒ TEMPORARY SEDIMENT REMOVAL
- _____ RIP RAP
- _____ INLET SEDIMENT FILTER
- _____ TEMPORARY BRUSH SEDIMENT BARRIERS
- _____ SANDBAG BERMS
- _____ TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

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

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE
FOLLOWING:

MAINTENANCE AND INSPECTION:

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

WASTE MATERIALS:

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

HAZARDOUS MATERIALS:

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

GENERAL NOTES:

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

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

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

IN ADDITION:

"ODEQ GENERAL PERMIT (OKR10) FOR STORM
WATER DISCHARGES FROM CONSTRUCTION
ACTIVITIES WITHIN THE STATE OF OKLAHOMA.
" ODEQ, WATER QUALITY DIVISION,
SEPTEMBER 13, 2017.

CAUTION

NOTICE TO CONTRACTOR

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

REVISION	BY	DATE

STORMWATER MANAGEMENT PLAN

MZ 8057 COT #2036N8057Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND
ESTIMATE
PREPARED BY: **WALLACE ENGINEERING**
STRUCTURAL CONSULTANTS, INC.
123 N MARTIN LUTHER KING JR. BLVD
C#1460 EXP. DATE 6-30-2023 (918)584-5858
TULSA, OK 74103

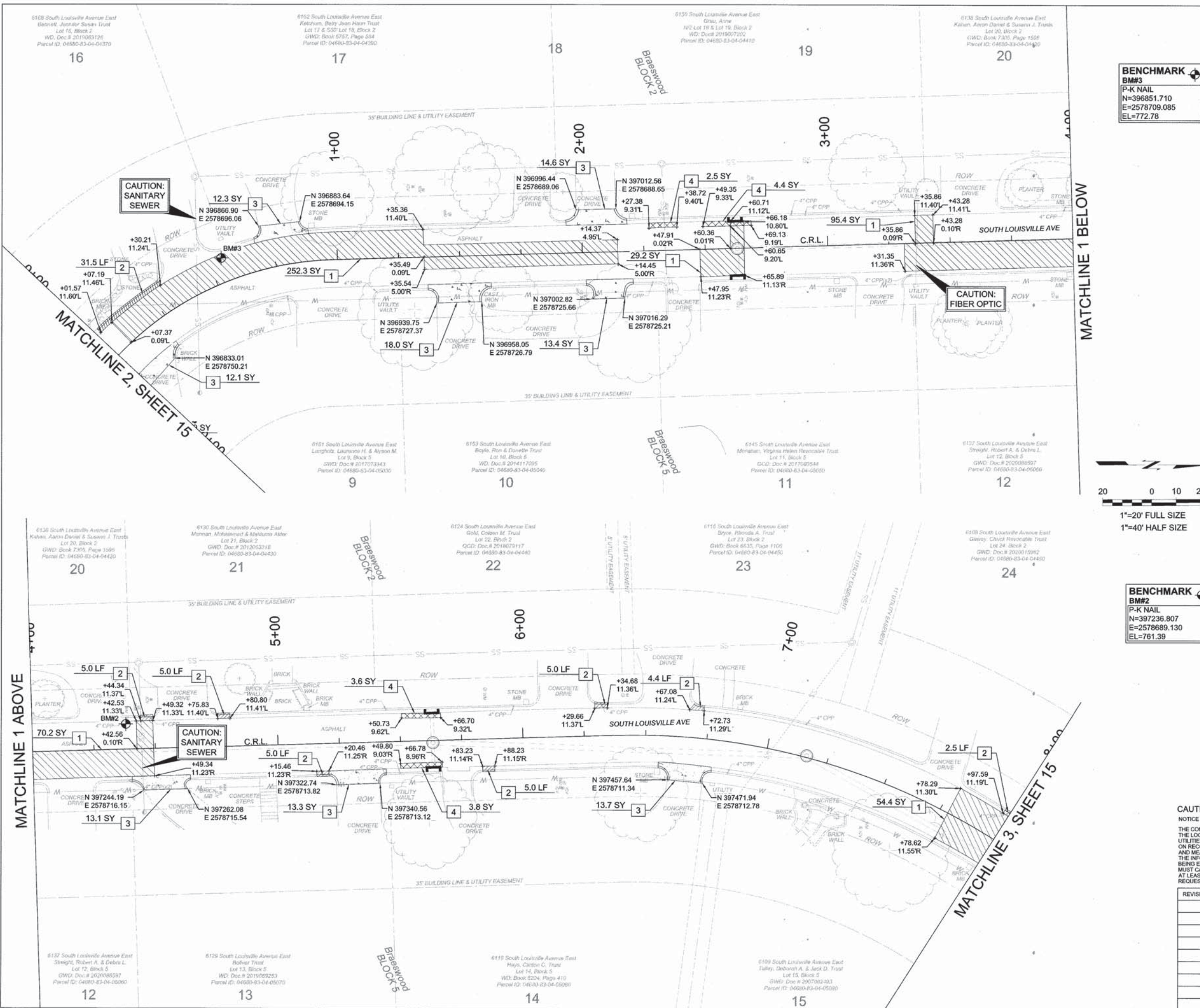
PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
N/A	DESIGNED	LKW	2/2021	
	SURVEY	RWB	2/2021	
PROFILE SCALE:	PROJ MGR:	JH	5/22	
	LEAD ENGR:	BAC	6/22	
HORIZONTAL:	FIELD MGR:	RW	6/22	
N/A	RECOMMENDED:	HAS	8-22	
VERTICAL:	DESIGN MANAGER			
N/A				
FILE:	DRAWING:			
ATLAS PAGE NO:	471			

SHEET 13 OF 41 SHEETS

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FILE: 2040150 SP3.dwg
DATE: May 17, 2022 - 11:25AM

REVISED 10-15-2020

\\Civil-Server\Projects\2040150 MZ 8057\DWG\Production\2040150 DEMO.dwg
DATE: May 17, 2022 - 11:26AM



BENCHMARK
BM#3
P-K NAIL
N=396851.710
E=2578709.085
EL=772.78

GENERAL DEMOLITION NOTES

1. ALL CONCRETE AND ASPHALT SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
4. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
5. ALL EXISTING POWER POLES, POWER LINES AND GUY LINES TO REMAIN.
6. ALL EXISTING FIRE HYDRANTS, WATER METERS AND WATER VALVES TO REMAIN, UNLESS NOTED OTHERWISE.
7. EROSION CONTROL TO BE INSTALLED AND MAINTAINED PER CITY OF TULSA SPECIFICATIONS AND THE STORMWATER MANAGEMENT PLAN PRIOR TO BEGINNING DEMOLITION.
8. AREAS MARKED "SUBSIDENCE" ARE AREAS WHICH EXHIBIT RUTTING, DIPS OR SEPARATION FROM CURB. THEY NEED TO BE EVALUATED PRIOR TO MILLING FOR PROPER REHAB. THE QUANTITIES HAVE BEEN INCLUDED IN TYPE 1 AC PATCH FOR BIDDING.

REMOVE DRIVEWAYS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES

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

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

LEGEND

- 1 REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART.
 - 2 CURB/GUTTER REPLACEMENT
 - 3 DRIVEWAY REPLACEMENT
 - 4 SUBSIDENCE (SEE NOTE ABOVE)
- TEMPORARY FIBER LOG INLET PROTECTION

BENCHMARK
BM#2
P-K NAIL
N=397236.807
E=2578689.130
EL=761.39

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
03/18/2022



CAUTION
NOTICE TO CONTRACTOR

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

DEMOLITION/EROSION CONTROL PLAN
SHEET 1

MZ 8057 COT #2036N8057Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATE PREPARED BY:		WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAF 1460 EXP. DATE 6-30-2023		(918)584-5858 TULSA, OK 74103
PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
1"=20'	DESIGNED	LKW	2/2021	
	SURVEY	RWB	2/2021	
PROFILE SCALE	PROJ MGR.	JH	5/22	
HORIZONTAL:	LEAD ENGR.	CD	6/22	
	FIELD MGR.	RWB	6/22	
VERTICAL:	RECOMMENDED	MS	8-22	 CITY ENGINEER
NA	DESIGN MANAGER			
FILE:	DRAWING:	DATE:		
ATLAS PAGE NO:	471	SHEET 14 OF 41 SHEETS		



GENERAL DEMOLITION NOTES

REMOVE DRIVEWAYS AS NOTED, TO THE
LIMITS SHOWN BY COORDINATES

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

- | | | |
|---|--|---|
| 1 | REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART. |  |
| 2 | CURB/GUTTER REPLACEMENT |  |
| 3 | DRIVEWAY REPLACEMENT |  |
| 4 | SUBSIDENCE (SEE NOTE ABOVE) |  |

MZ 8057 COT #2036N8057Z

PLANS AND
ESTIMATE
PREPARED BY:



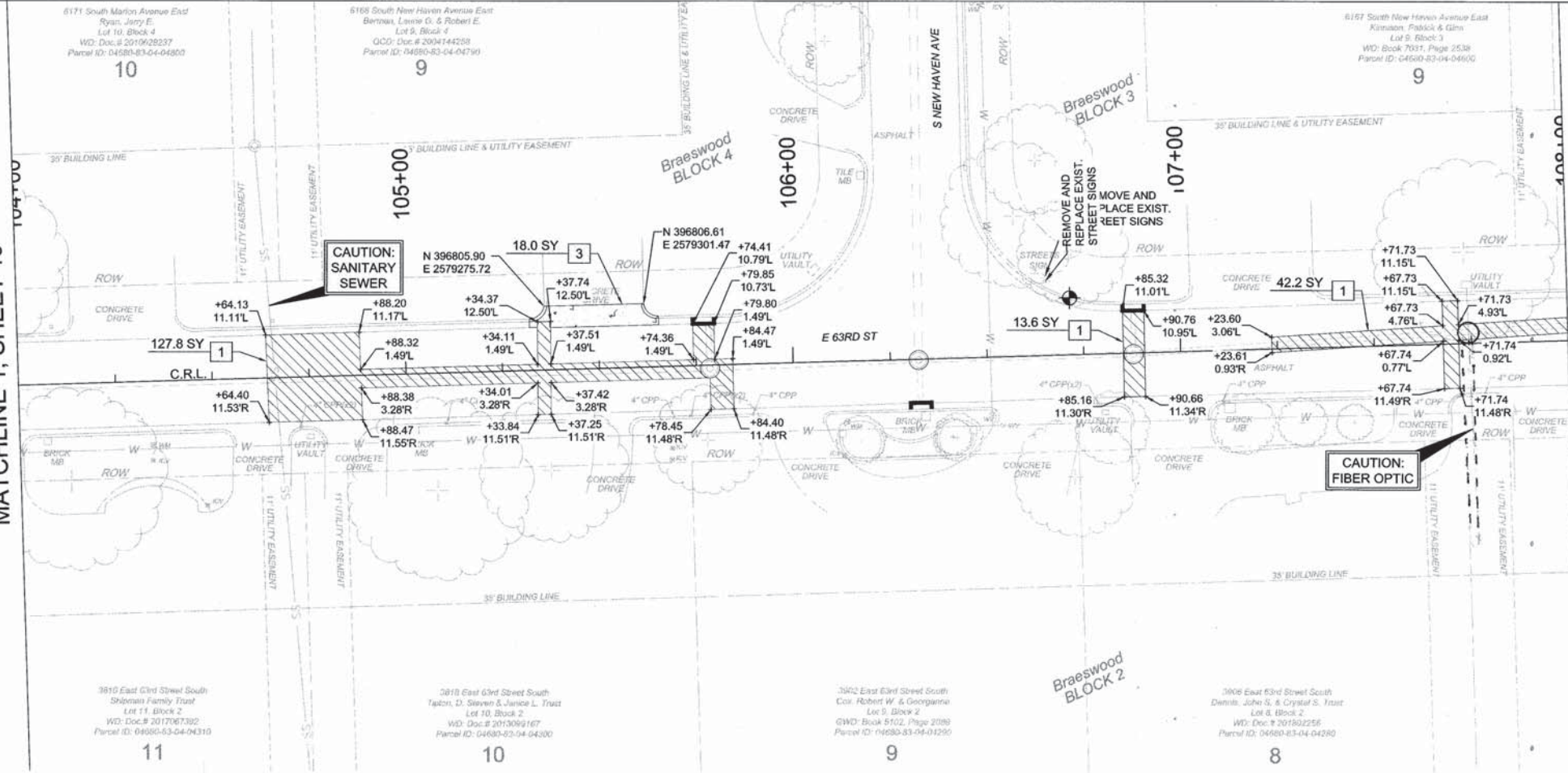
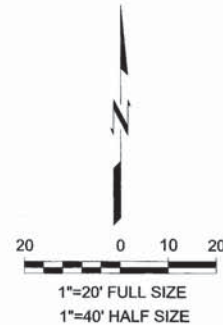
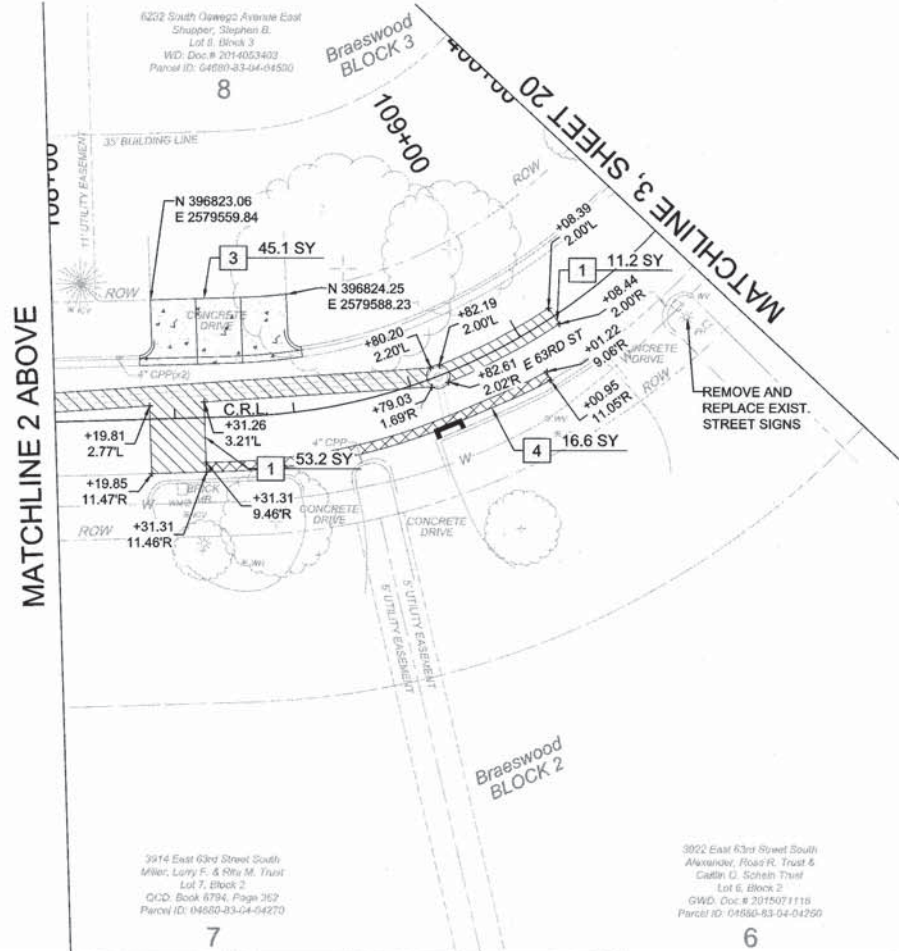
WALLACE ENGINEERING
STRUCTURAL CONSULTANTS, INC.
123 N MARTIN LUTHER KING JR. BLVD
DALLAS, TX 75201-2299
(918) 584-5858
TULSA, OK 74103

CAUTION
NOTICE TO CONTRACTOR

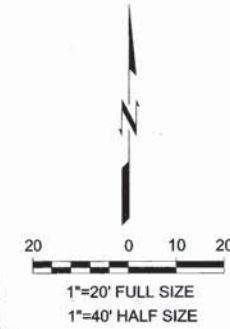
REVISION	BY	DATE	PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
			1"=20'	DESIGNED	LKW	2/2021	
				SURVEY	RWB	2/2021	
			PROFILE SCALE	PROJ MGR.	JH	5/22	
			HORIZONTAL:	LEAD ENGR.	ED	6/22	
			NA	FIELD MGR.	Don	6/10	
			VERTICAL:	RECOMMENDED	HAS	8-22	
			NA	DESIGN MANAGER			
			FILE:	DRAWING:		DATE:	
			ATLAS PAGE NO:	471		SHEET 15 OF 41 SHEETS	

MATCHLINE 2 ABOVE

MATCHLINE 1, SHEET 15



MATCHLINE 2 BELOW



BENCHMARK
BM#6
CHISELED "X"
N=396808.267
E=2579411.315
EL=760.64

- GENERAL DEMOLITION NOTES
1. ALL CONCRETE AND ASPHALT SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
 2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
 3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
 4. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
 5. ALL EXISTING POWER POLES, POWER LINES AND GUY LINES TO REMAIN.
 6. ALL EXISTING FIRE HYDRANTS, WATER METERS AND WATER VALVES TO REMAIN, UNLESS NOTED OTHERWISE.
 7. EROSION CONTROL TO BE INSTALLED AND MAINTAINED PER CITY OF TULSA SPECIFICATIONS AND THE STORMWATER MANAGEMENT PLAN PRIOR TO BEGINNING DEMOLITION.
 8. AREAS MARKED "SUBSIDIENCE" ARE AREAS WHICH EXHIBIT RUTTING, DIPS OR SEPARATION FROM CURB. THEY NEED TO BE EVALUATED PRIOR TO MILLING FOR PROPER REHAB. THE QUANTITIES HAVE BEEN INCLUDED IN TYPE 1 AC PATCH FOR BIDDING.

REMOVE DRIVEWAYS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES

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

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

LEGEND

- 1 REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART.
 - 2 CURB/GUTTER REPLACEMENT
 - 3 DRIVEWAY REPLACEMENT
 - 4 SUBSIDIENCE (SEE NOTE ABOVE)
- TEMPORARY FIBER LOG INLET PROTECTION



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

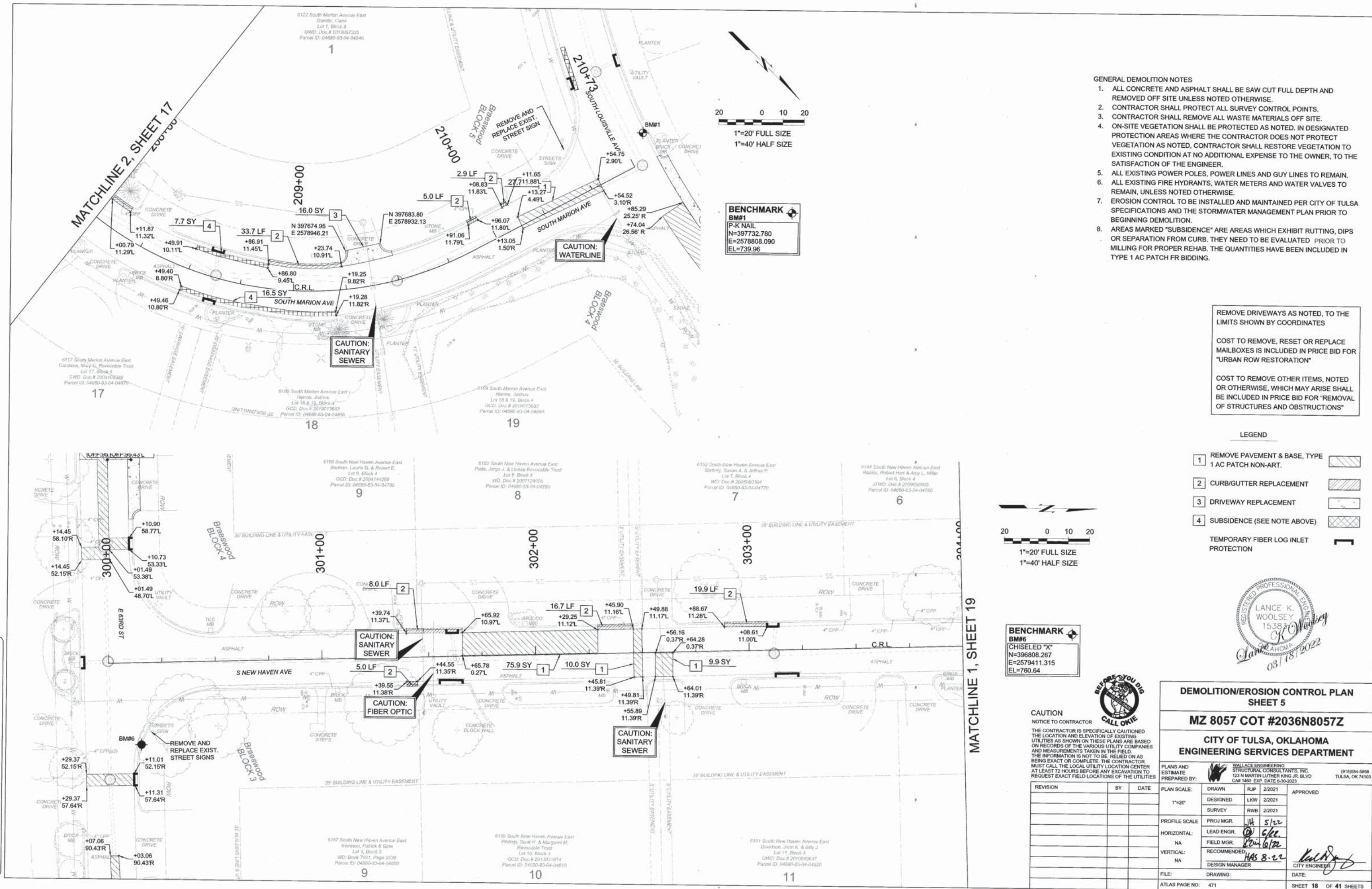
DEMOLITION/EROSION CONTROL PLAN
SHEET 3

MZ 8057 COT #2036N8057Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD C# 1460 EXP. DATE 6-30-2023	918/654-8858 TULSA, OK 74103
PLAN SCALE:	DRAWN RJP 2/2021 DESIGNED LKW 2/2021 SURVEY RWB 2/2021	APPROVED
PROFILE SCALE:	PROJ MGR. JH 5/22	
HORIZONTAL:	LEAD ENGR. JH 6/22	
NA	FIELD MGR. JH 6/22	
VERTICAL:	RECOMMENDED JH 8-22	
NA	DESIGN MANAGER	
FILE:	DRAWING:	DATE:
ATLAS PAGE NO: 471		SHEET 16 OF 41 SHEETS

REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
03/18/2022





- GENERAL DEMOLITION NOTES
1. ALL CONCRETE AND ASPHALT SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
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 5. ALL EXISTING POWER POLES, POWER LINES AND GUY LINES TO REMAIN.
 6. ALL EXISTING FIRE HYDRANTS, WATER METERS AND WATER VALVES TO REMAIN, UNLESS NOTED OTHERWISE.
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 8. AREAS MARKED "SUBSIDENCE" ARE AREAS WHICH EXHIBIT RUTTING, DIPS OR SEPARATION FROM CURB. THEY NEED TO BE EVALUATED PRIOR TO MILLING FOR PROPER REHAB. THE QUANTITIES HAVE BEEN INCLUDED IN TYPE 1 AC PATCH FOR BIDDING.

REMOVE DRIVEWAYS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES

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

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

- LEGEND
- 1 REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART.
 - 2 CURB/GUTTER REPLACEMENT
 - 3 DRIVEWAY REPLACEMENT
 - 4 SUBSIDENCE (SEE NOTE ABOVE)
 - TEMPORARY FIBER LOG INLET PROTECTION

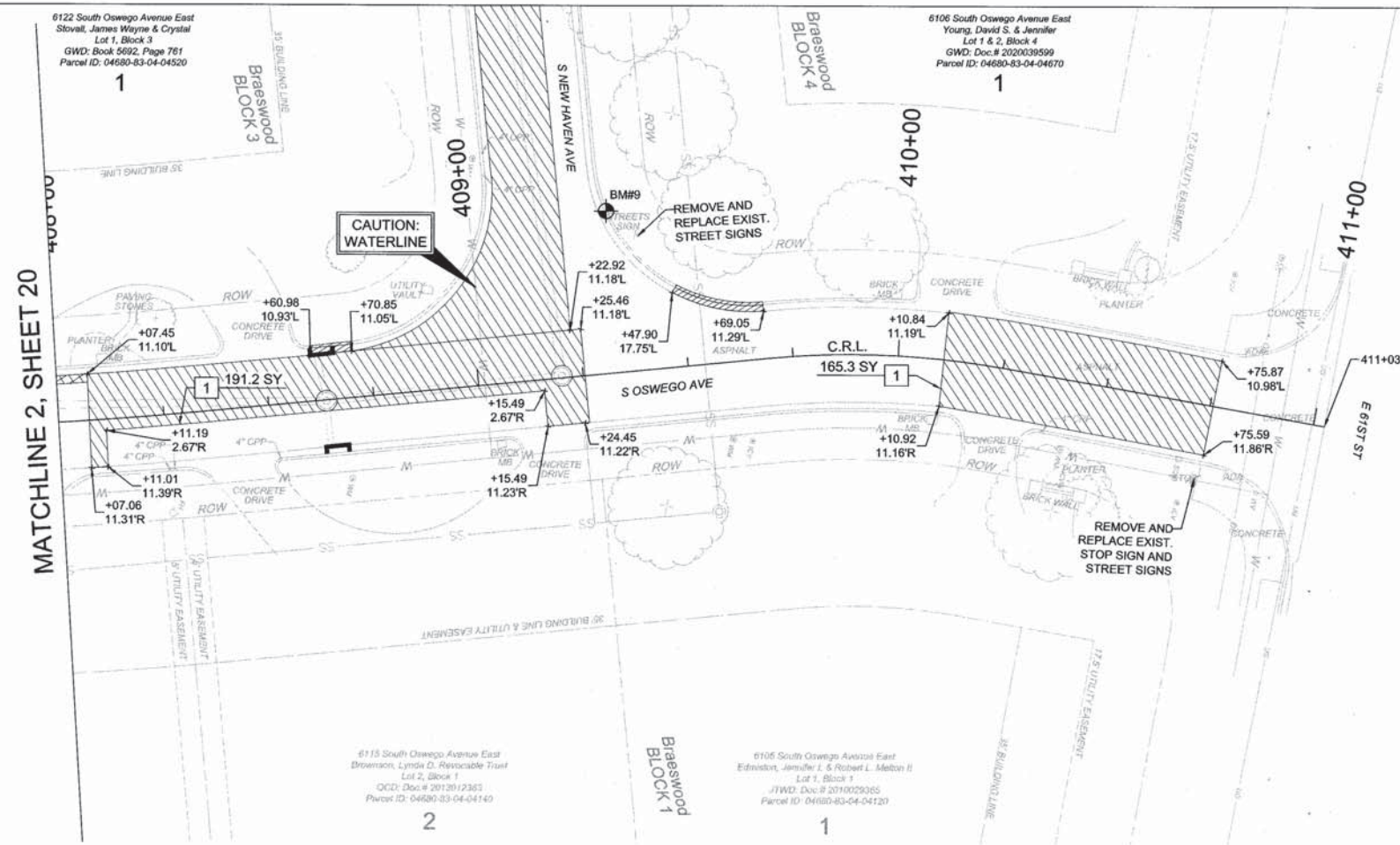


CAUTION
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DEMOLITION/EROSION CONTROL PLAN SHEET 7			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING, INC. STRUCTURAL CONSULTANTS, INC. 123 N. MARTIN LUTHER KING, JR. BLVD C#1480 EXP. DATE 6-30-2023	(918)584-5858 TULSA, OK 74103	
PLAN SCALE:	DRAWN: RJP 2/2021 DESIGNED: LKW 2/2021 SURVEY: RWB 2/2021	APPROVED:	
PROFILE SCALE:	PROJ MGR: JH 5/22		
HORIZONTAL:	LEAD ENGR: [Signature] 6/22		
VERTICAL:	FIELD MGR: [Signature] 6/22		
	RECOMMENDED: [Signature] 8-22		
	DESIGN MANAGER:		
FILE:	DRAWING:		
ATLAS PAGE NO:	471	DATE:	
		SHEET 20 OF 41 SHEETS	

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- GENERAL DEMOLITION NOTES
1. ALL CONCRETE AND ASPHALT SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE UNLESS NOTED OTHERWISE.
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BENCHMARK
BM#9
CHISELED "X"
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E=2579576.824
EL=752.79

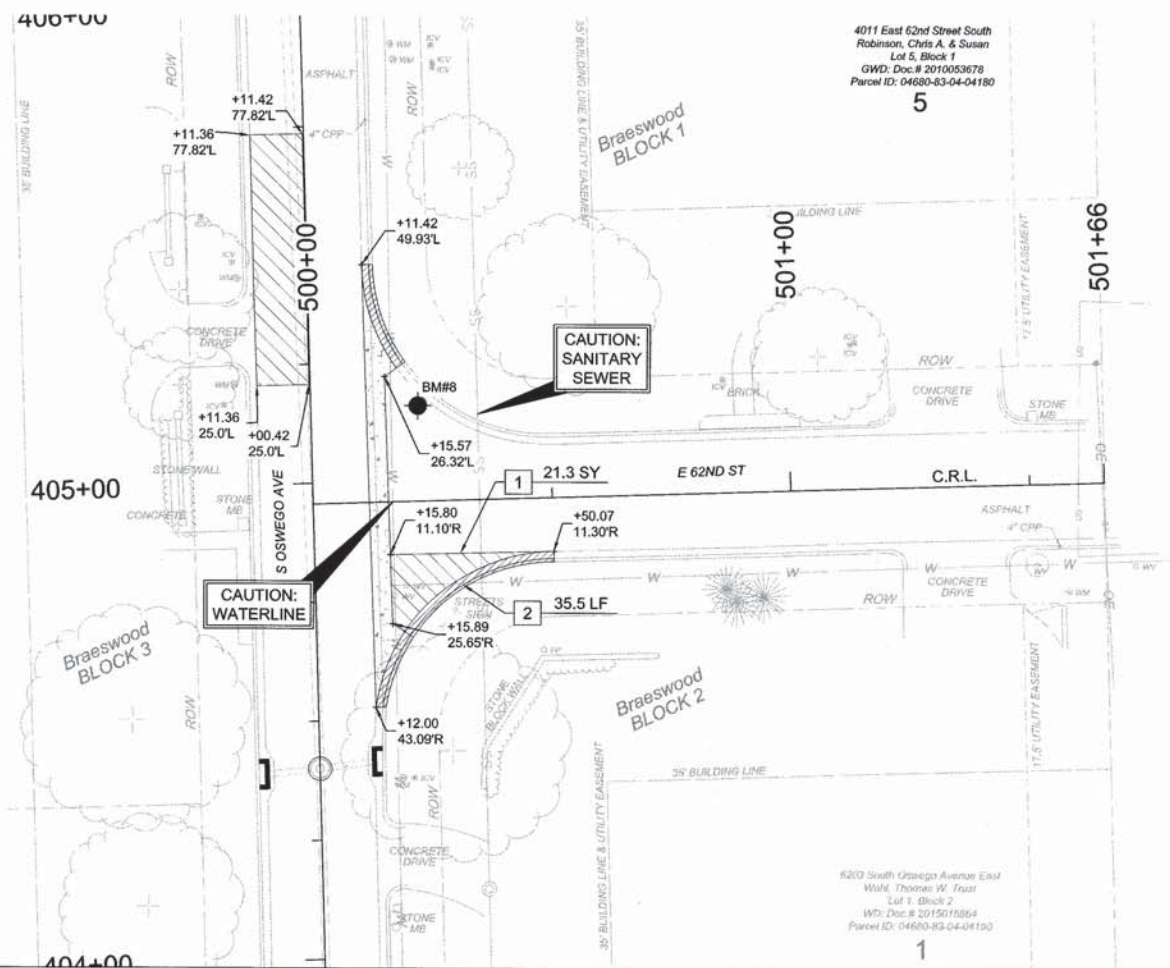
REMOVE DRIVEWAYS AS NOTED, TO THE LIMITS SHOWN BY COORDINATES

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

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

LEGEND

- | | | |
|---|--|--|
| 1 | REMOVE PAVEMENT & BASE, TYPE 1 AC PATCH NON-ART. | |
| 2 | CURB/GUTTER REPLACEMENT | |
| 3 | DRIVEWAY REPLACEMENT | |
| 4 | SUBSIDENCE (SEE NOTE ABOVE) | |
| | TEMPORARY FIBER LOG INLET PROTECTION | |



BENCHMARK
BM#8
P-K NAIL
N=397345.357
E=2579708.882
EL=766.25

CAUTION
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DEMOLITION/EROSION CONTROL PLAN
SHEET 8

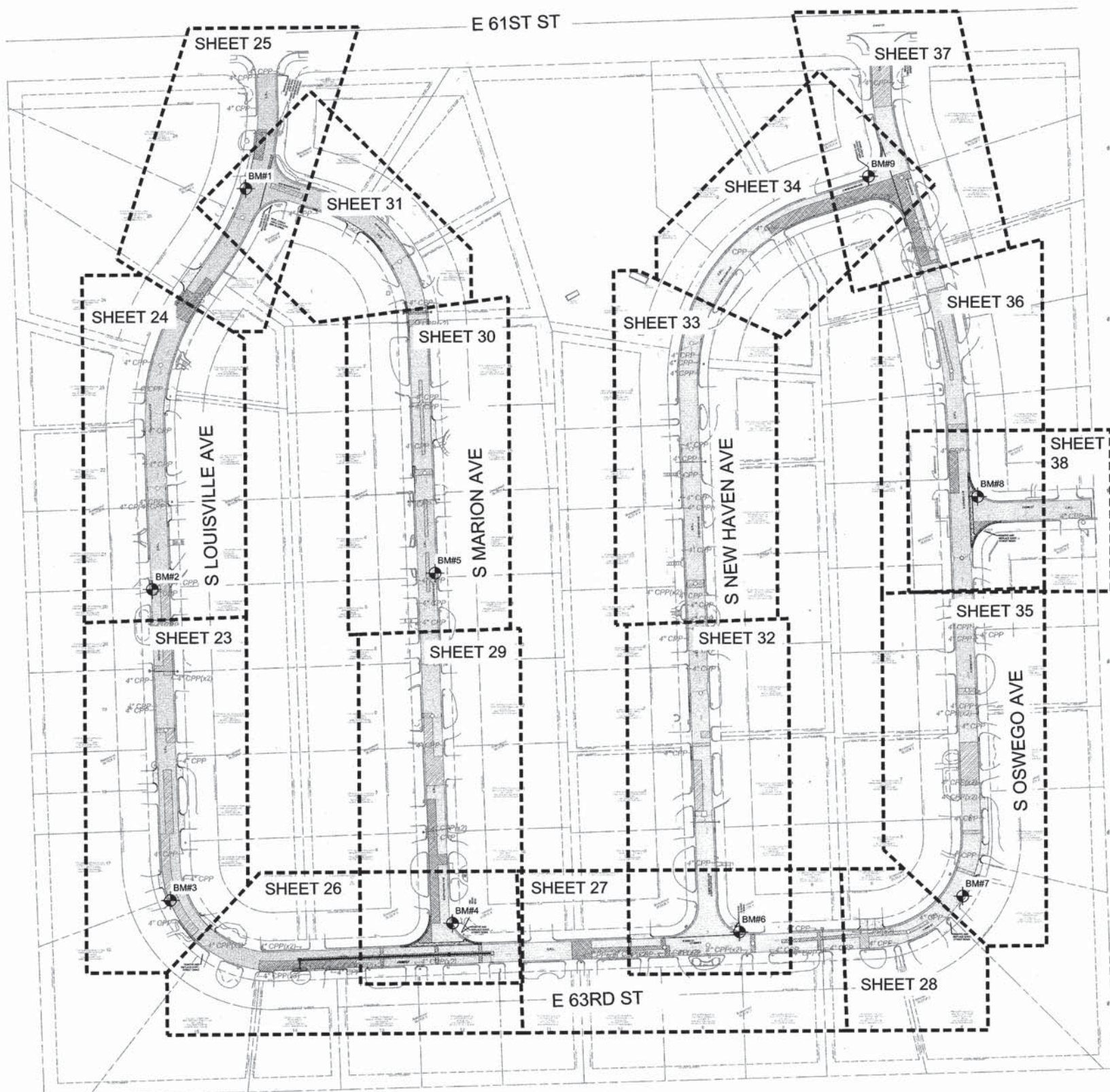
MZ 8057 COT #2036N8057Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

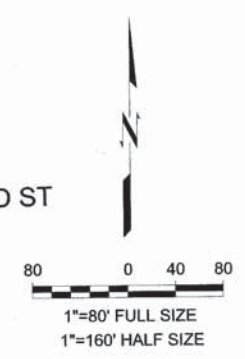
PLANS AND ESTIMATE PREPARED BY: WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAM 1400 EXP. DATE 6-30-2023 (918)584-5858 TULSA, OK 74103

REVISION	BY	DATE	PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
			1"=20'	DESIGNED	LKW	2/2021	
				SURVEY	RWB	2/2021	
			PROFILE SCALE:	PROJ MGR.	JH	5/22	
			HORIZONTAL:	LEAD ENGR.	P 6/22		
			NA	FIELD MGR.	P 6/22		
			VERTICAL:	RECOMMENDED:	HKS 8-22		
			NA	DESIGN MANAGER			
			FILE:	DRAWING:			CITY ENGINEER
			ATLAS PAGE NO.:	471			DATE:

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z



BENCHMARKS					
NO	DESCRIPTION	NORTHING	EASTING	ELEV	STA
BM#1	P-K NAIL	397732.780	2578808.090	739.96	9+61.99, 10.56'LT
BM#2	P-K NAIL	397236.807	2578889.130	761.39	4+38.22, 10.26'LT
BM#3	P-K NAIL	396851.710	2578709.085	772.78	0+55.20, 9.92'LT
BM#4	CHISELED "X"	396821.135	2579057.364	771.66	200+38.37, 15.16'RT
BM#5	P-K NAIL	397254.520	2579038.454	762.35	204+72.13, 9.44'RT
BM#6	CHISELED "X"	396808.267	2579411.315	760.64	106+71.73, 14.74'LT
BM#7	P-K NAIL	396850.894	2579687.407	772.98	400+22.99, 9.40'RT
BM#8	P-K NAIL	397345.357	2579708.882	766.25	405+15.70, 22.32'RT
BM#9	CHISELED "X"	397742.739	2579576.824	752.79	310+59.84, 14.91'LT



CAUTION
NOTICE TO CONTRACTOR
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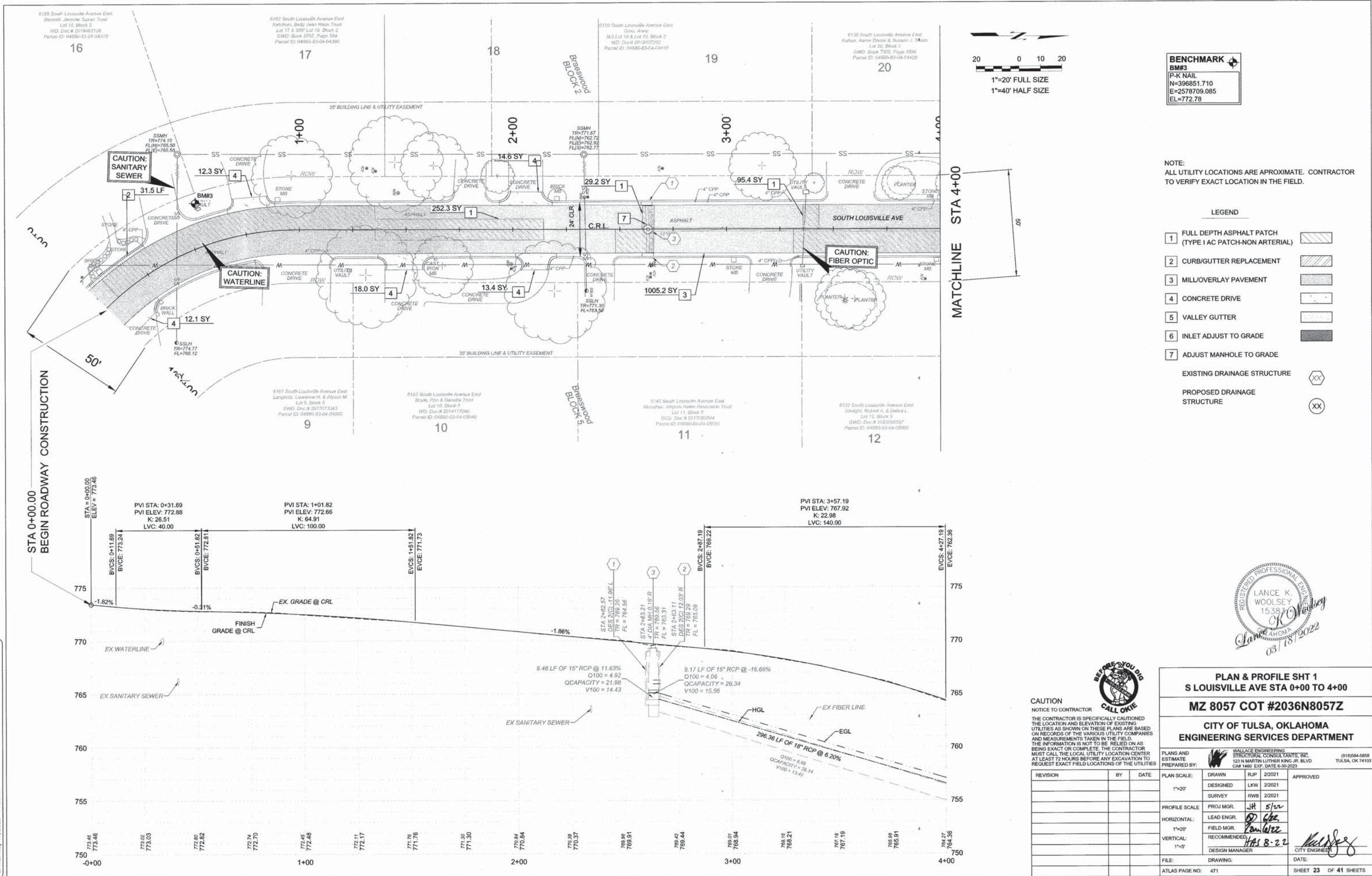
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MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:		WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD TULSA, OK 74103 (918)584-5558	
PLAN SCALE:	DRAWN	RJP	2/2021
	DESIGNED	LKW	2/2021
PROFILE SCALE:	SURVEY	RWB	2/2021
	PROJ MGR.	JH	5/22
HORIZONTAL:	LEAD ENGR.	6/22	
NA	FIELD MGR.	6/22	
VERTICAL:	RECOMMENDED:	6/22	
NA	DESIGN MANAGER	6/22	
FILE:	DRAWING:		DATE:
ATLAS PAGE NO:	471		SHEET 22 OF 41 SHEETS

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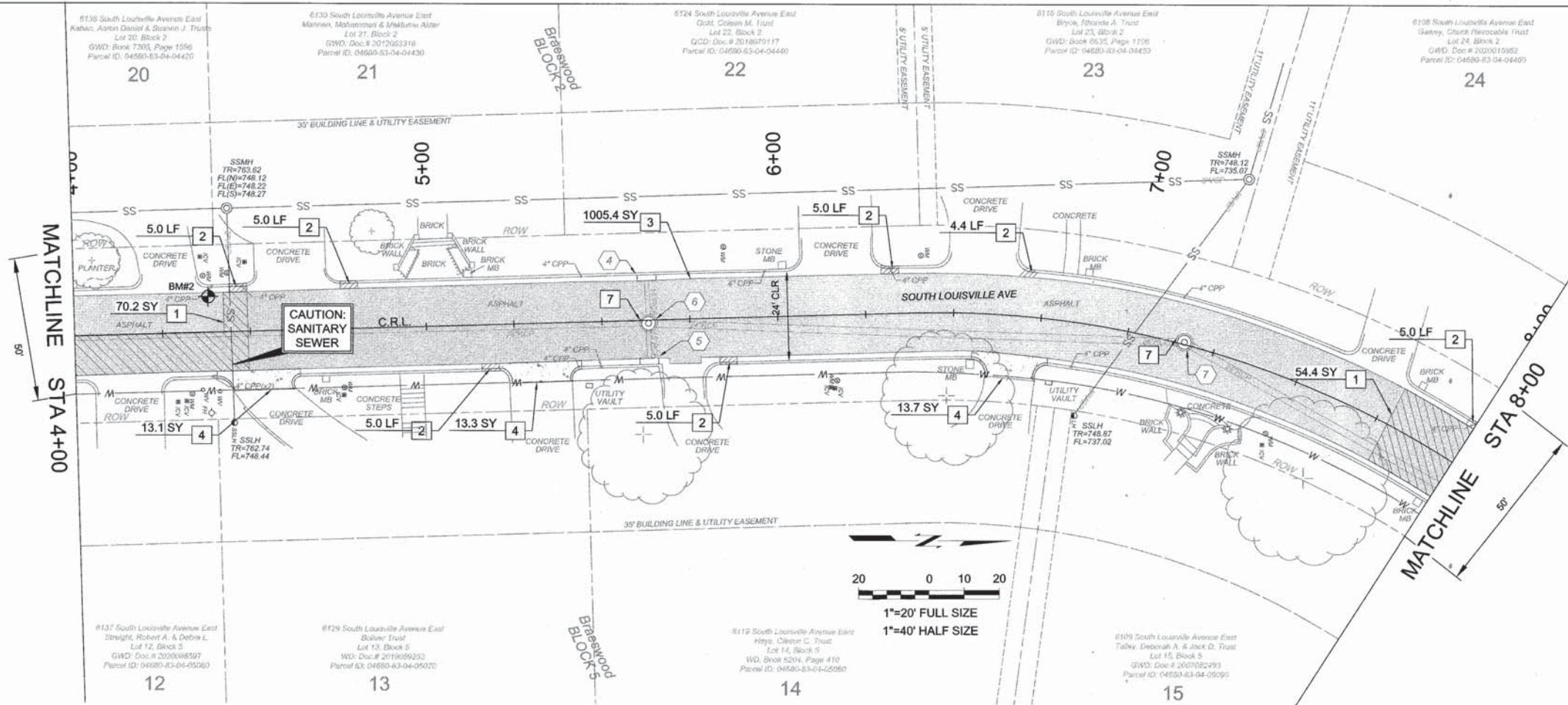
Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z

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Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z



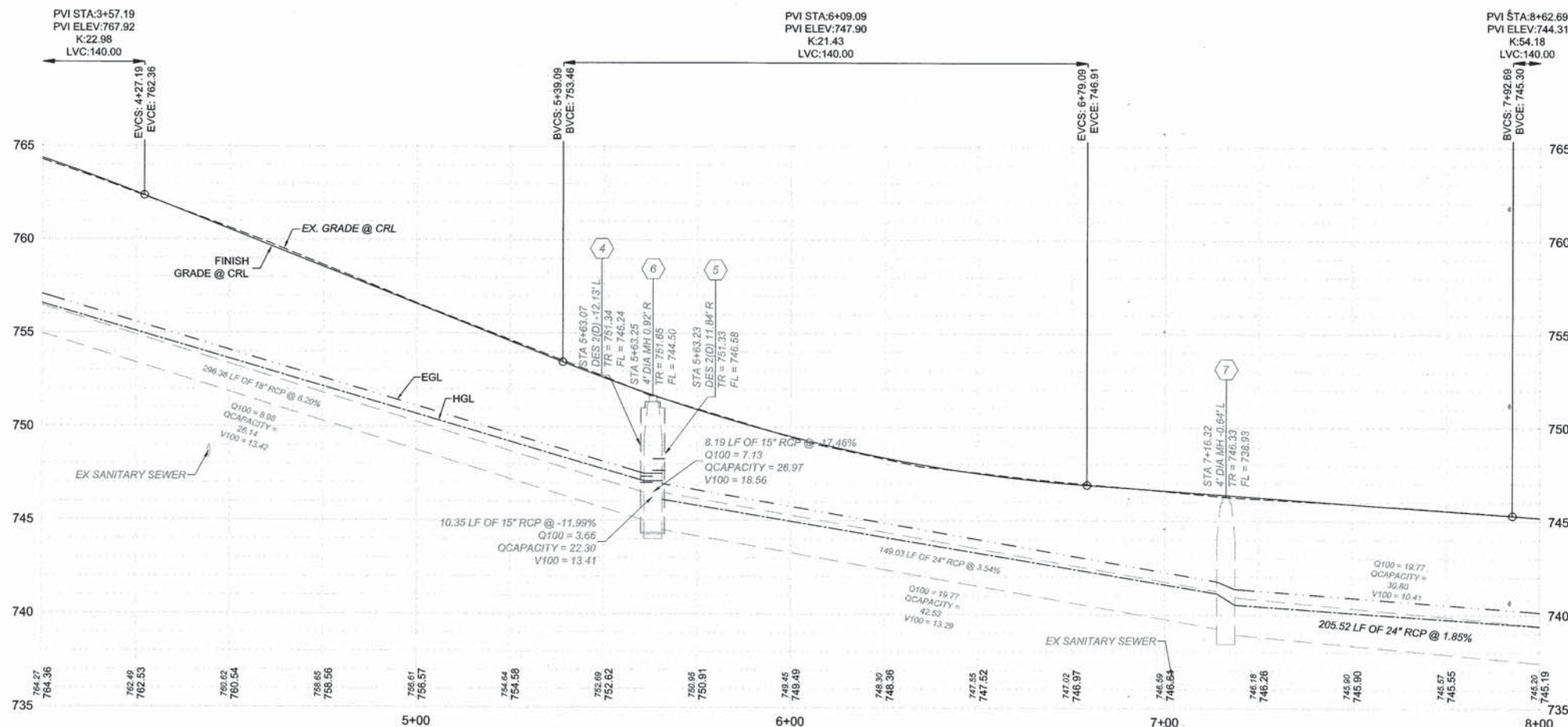
BENCHMARK
BM#2
 P-K NAIL
 N=397236.807
 E=2578689.130
 EL=761.39

NOTE:
 ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR
 TO VERIFY EXACT LOCATION IN THE FIELD.

LEGEND

- 1 FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL)
- 2 CURB/GUTTER REPLACEMENT
- 3 MILL/OVERLAY PAVEMENT
- 4 CONCRETE DRIVE
- 5 VALLEY GUTTER
- 6 INLET ADJUST TO GRADE
- 7 ADJUST MANHOLE TO GRADE

EXISTING DRAINAGE STRUCTURE (XX)
 PROPOSED DRAINAGE STRUCTURE (XX)



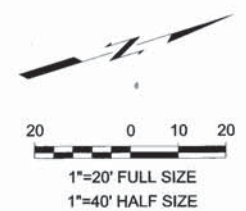
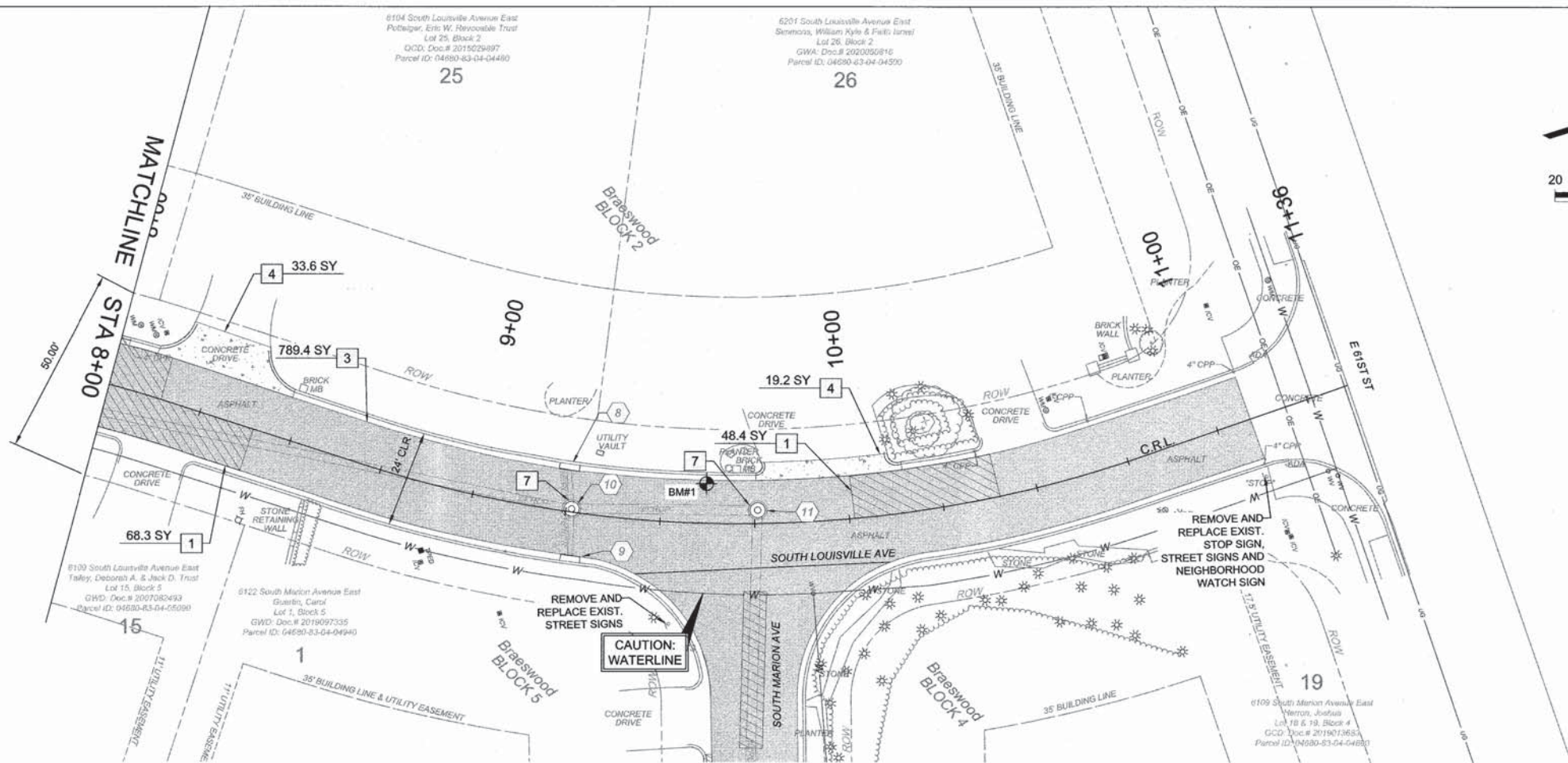
REGISTERED PROFESSIONAL ENGINEER
 LANCE K. WOOLSEY
 15383
 OKLAHOMA
 03/18/2022



CAUTION
 NOTICE TO CONTRACTOR
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED
 THE LOCATION AND ELEVATION OF EXISTING
 UTILITIES AS SHOWN ON THESE PLANS ARE BASED
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 AND MEASUREMENTS TAKEN IN THE FIELD.
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 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO
 REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

PLAN & PROFILE SHT 2
S LOUISVILLE AVE STA 4+00 TO 8+00
MZ 8057 COT #2036N8057Z
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

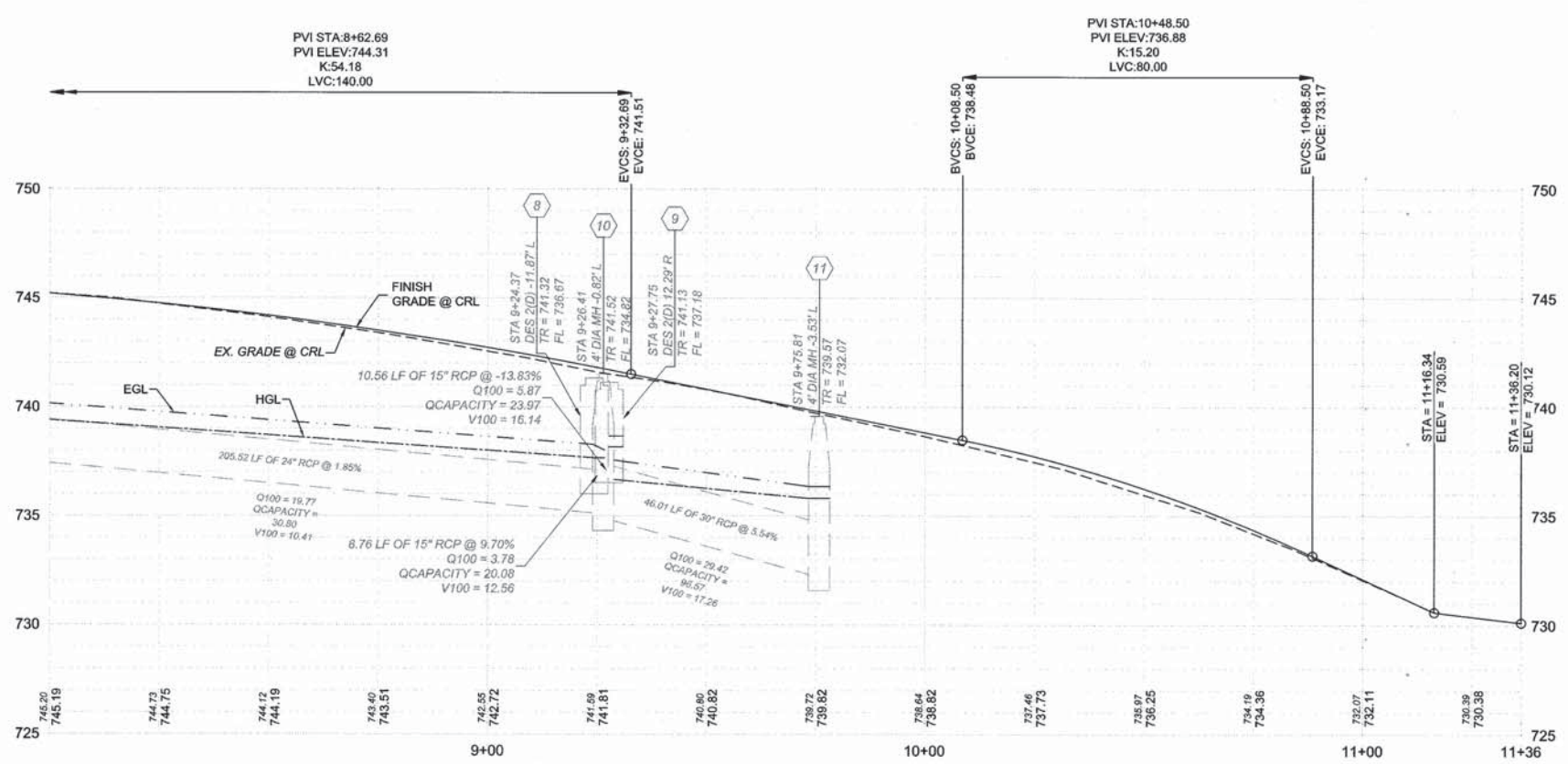
PLANS AND ESTIMATE PREPARED BY:		WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD C-1400 EXP. DATE 6-30-2023		(918)554-5858 TULSA, OK 74103	
REVISION	BY	DATE	PLAN SCALE:	DRAWN	RJP 2/2021
			DESIGNED	LKW 2/2021	APPROVED
			SURVEY	RWB 2/2021	
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			HORIZONTAL:	LEAD ENGR.	06/22
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				RECOMMENDED	
				DESIGN MANAGER	
			FILE:	DRAWING:	DATE:
			ATLAS PAGE NO:	471	SHEET 24 OF 41 SHEETS



BENCHMARK
BM#1
P-K NAIL
N=397732.780
E=2578808.090
EL=739.96

NOTE:
ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR
TO VERIFY EXACT LOCATION IN THE FIELD.

- LEGEND**
- 1 FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL)
 - 2 CURB/GUTTER REPLACEMENT
 - 3 MILL/OVERLAY PAVEMENT
 - 4 CONCRETE DRIVE
 - 5 VALLEY GUTTER
 - 6 INLET ADJUST TO GRADE
 - 7 ADJUST MANHOLE TO GRADE
- EXISTING DRAINAGE STRUCTURE (XX)
- PROPOSED DRAINAGE STRUCTURE (XX)

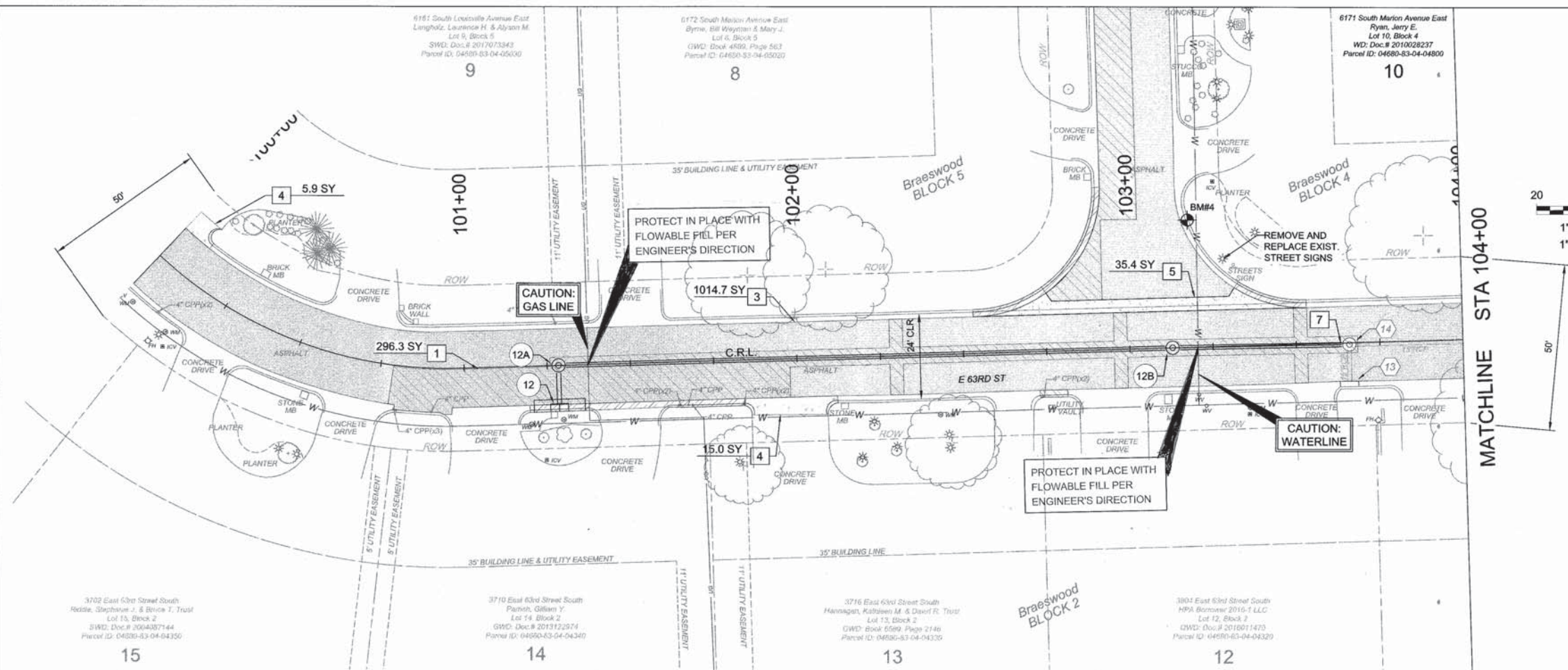


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PLAN & PROFILE SHT 3 S LOUISVILLE AVE STA 8+00 TO 11+36			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 1221 N. MARTIN LUTHER KING JR. BLVD TULSA, OK 74103 (918) 584-5858	APPROVED	
PLAN SCALE:	DRAWN: RJP 2/2021 DESIGNED: LKW 2/2021 SURVEY: RWB 2/2021	APPROVED	
PROFILE SCALE:	PROJ. MGR. JH 5/22 LEAD ENGR. DJ 6/22 FIELD MGR. BM 6/22	APPROVED	
HORIZONTAL:	RECOMMENDED: H 8-22	APPROVED	
VERTICAL:	DESIGN MANAGER	APPROVED	
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO: 471	SHEET 25 OF 41 SHEETS		

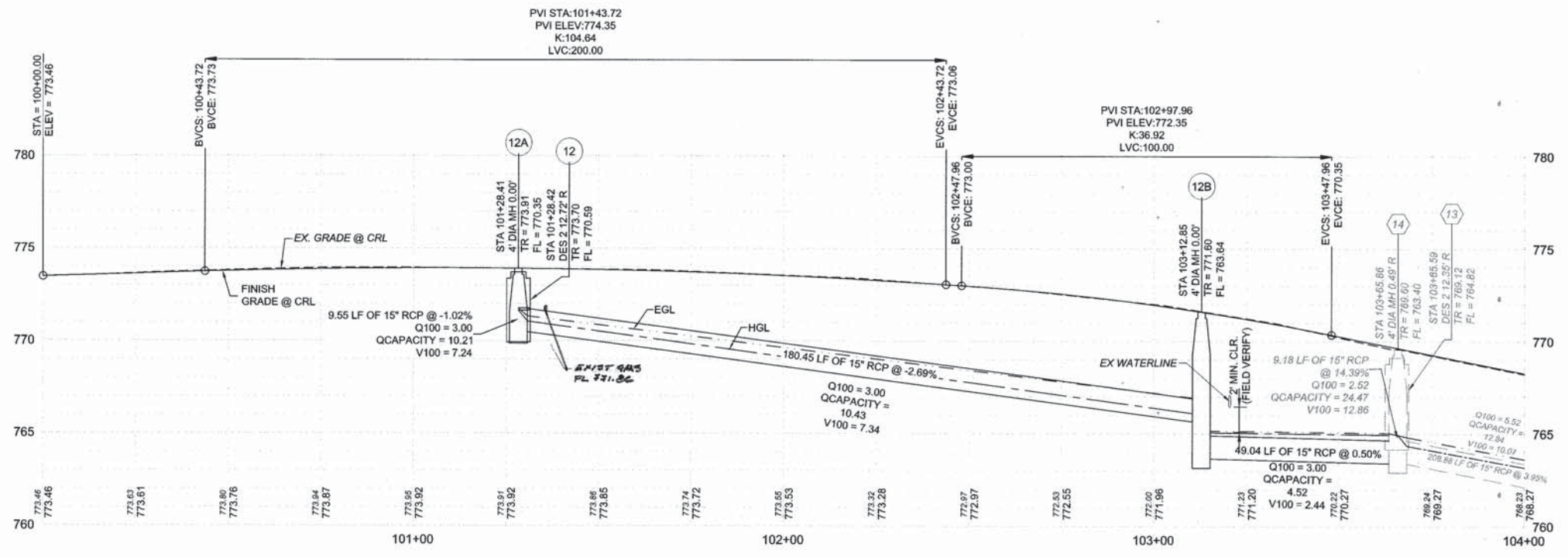
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DATE: May 17, 2022 - 11:34AM



BENCHMARK
BM#4
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NOTE:
ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY EXACT LOCATION IN THE FIELD.

- LEGEND**
- 1 FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL)
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 - 6 INLET ADJUST TO GRADE
 - 7 ADJUST MANHOLE TO GRADE
- EXISTING DRAINAGE STRUCTURE (XX)
- PROPOSED DRAINAGE STRUCTURE (XX)

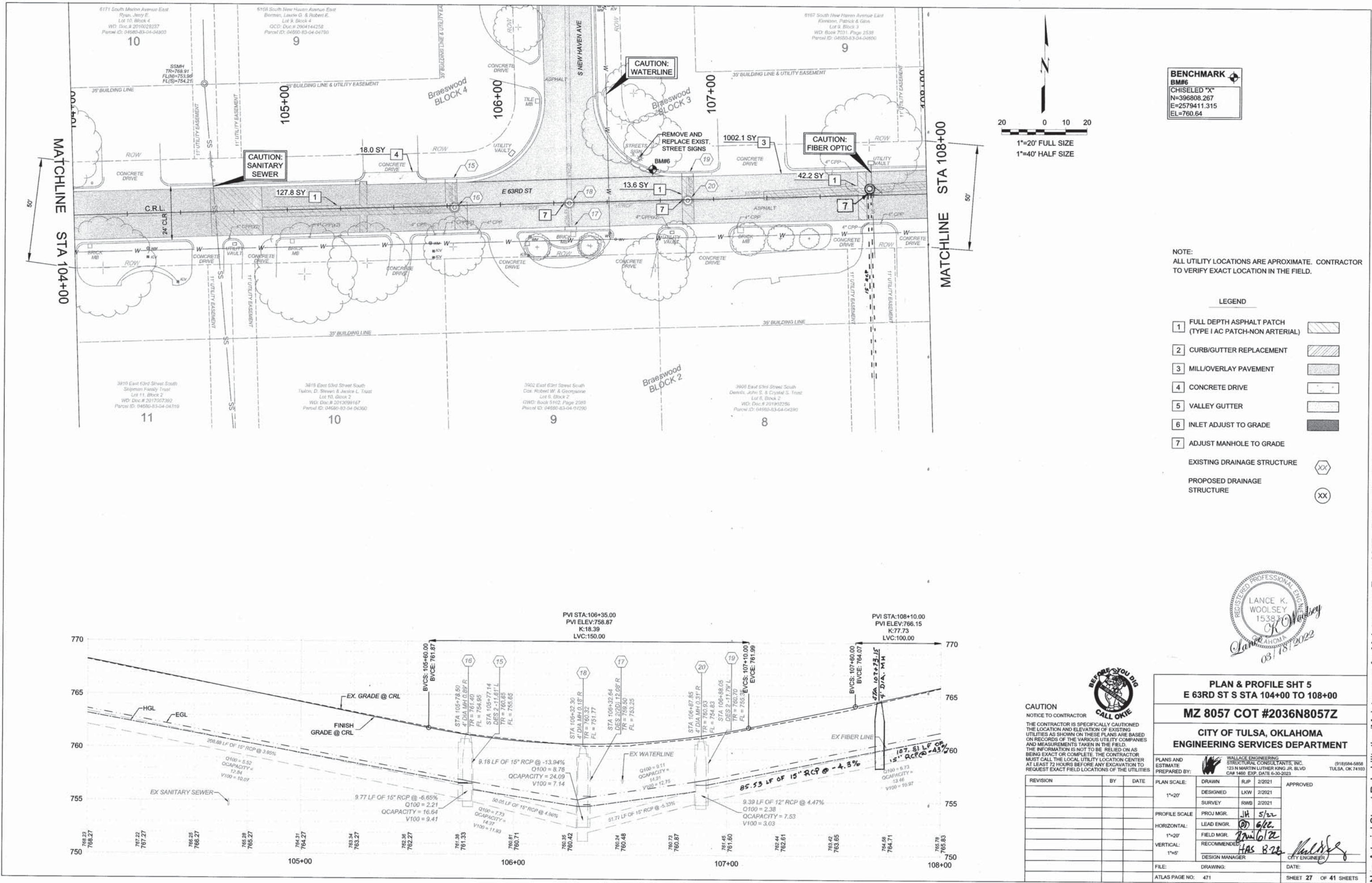


CAUTION
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PLAN & PROFILE SHT 4 E 63RD ST S STA 100+00 TO 104+00			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N. MARTIN LUTHER KING JR. BLVD CEN 1400 EXP. DATE 6-30-2023	(918) 584-5858 TULSA, OK 74103	
REVISION	BY	DATE	APPROVED
PLAN SCALE:	DRAWN	RJP	2/2021
1"=20'	DESIGNED	LKW	2/2021
	SURVEY	RWB	2/2021
PROFILE SCALE:	PROJ MGR.	JH	5/22
HORIZONTAL:	LEAD ENGR.	JD	6/22
1"=20'	FIELD MGR.	RWB	6/22
VERTICAL:	RECOMMENDED	JH	8/22
1"=5'	DESIGN MANAGER		
FILE:	DRAWING:		DATE:
ATLAS PAGE NO: 471			SHEET 26 OF 41 SHEETS

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z



FILE: C:\Users\RDWY\PLANS\RDWY\RDWY PLAN PROFILE.dwg
DATE: May 17, 2022, 11:34AM

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z



NOTE:
ALL UTILITY LOCATIONS ARE APROXIMATE. CONTRACTOR
TO VERIFY EXACT LOCATION IN THE FIELD.

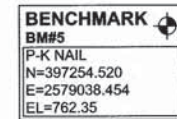
- REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
03/18/2022



CAUTION
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[illegible]

PLAN AND PROFILE SHT 7 S MARION OVER STA 200+00 TO 204+00				
MZ 8057 COT #2036N8057Z				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
PLANS AND ESTIMATE PREPARED BY:		 WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CARI 1460 EXP. DATE 6-30-2023		(918)554-5558 TULSA, OK 74103
PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
1"=20'	DESIGNED	LKW	2/2021	
	SURVEY	RWB	2/2021	
PROFILE SCALE	PROJ MGR.	JH	5/02	 CITY ENGINEER
HORIZONTAL:	LEAD ENGR.	JD	6/02	
1"=20'	FIELD MGR.	JH	8/22	
VERTICAL:	RECOMMENDED	JH	8/22	
1"=5'	DESIGN MANAGER			
FILE:	DRAWING:	DATE:		SHEET 29 OF 41 SHEETS
ATLAS PAGE NO: 471				



LEGEND

- | | | |
|---|--|---|
| 1 | FULL DEPTH ASPHALT PATCH
(TYPE I AC PATCH-NON ARTERIAL) |  |
| 2 | CURB/GUTTER REPLACEMENT |  |
| 3 | MILL/OVERLAY PAVEMENT |  |
| 4 | CONCRETE DRIVE |  |
| 5 | VALLEY GUTTER |  |
| 6 | INLET ADJUST TO GRADE |  |
| 7 | ADJUST MANHOLE TO GRADE |  |

EXISTING DRAINAGE STRUCTURE

PROPOSED DRAINAGE STRUCTURE



MZ 8057 COT #2036N8057Z

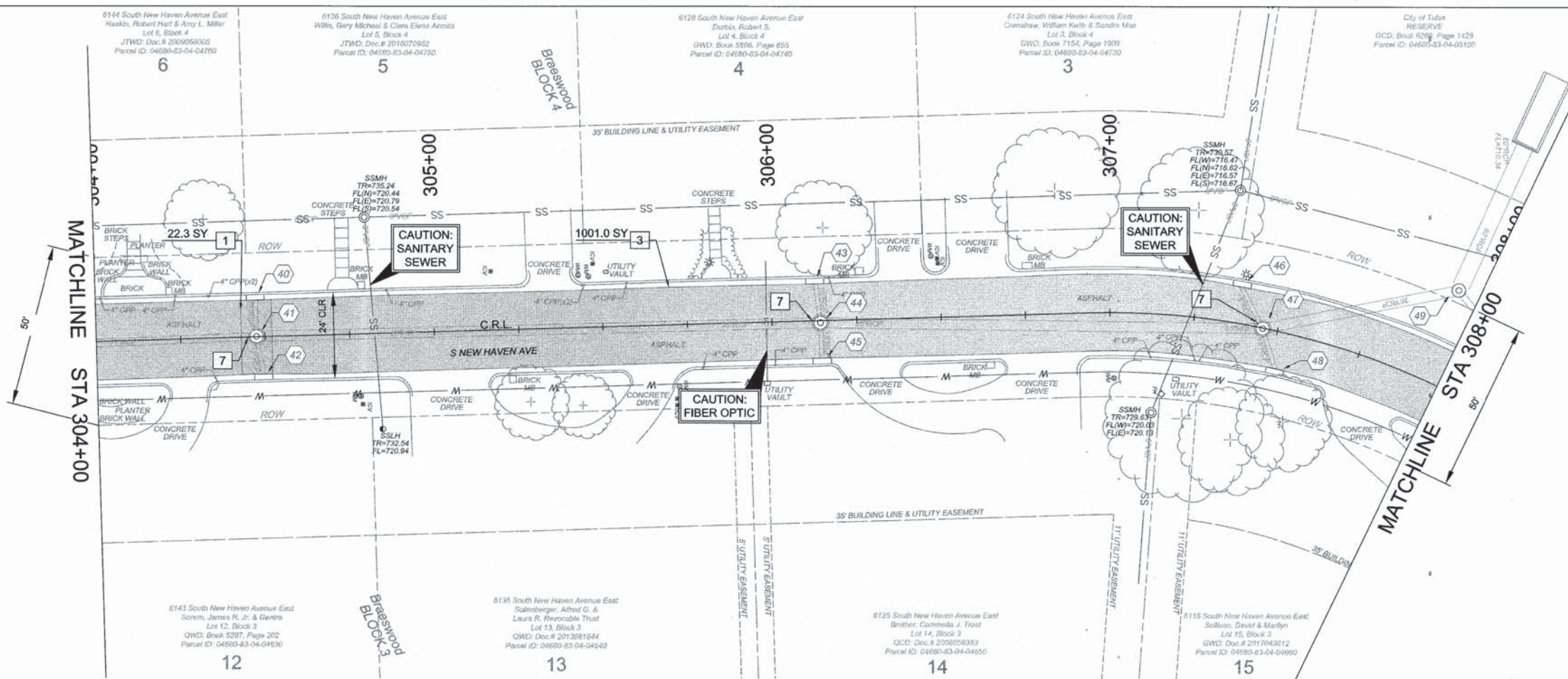
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND
ESTIMATE
PREPARED BY:

 WALLACE ENGINEERING
STRUCTURAL CONSULTANTS, INC.
123 N MARTIN LUTHER KING JR. BLVD
C#1 1450, EXP. DATE 6/30-2023

(918)584-5858
TULSA, OK 74103

REVISION	BY	DATE	PLAN SCALE:	DRAWN	RJP	2/2021	APPROVED
			1"=20'	DESIGNED	LKW	2/2021	
				SURVEY	RWB	2/2021	
			PROFILE SCALE	PROJ. MGR.	JA	5/22	 CITY ENGINEER
			HORIZONTAL:	LEAD ENGR.	DP	6/22	
			1"=20'	FIELD MGR.	KAR	Wen	
			VERTICAL:	RECOMMENDED	HW	8-22	
			1"=5'	DESIGN MANAGER			
			FILE:	DRAWING:			DATE:
			ATLAS PAGE NO:	471			SHEET 30 OF 41 SHEETS



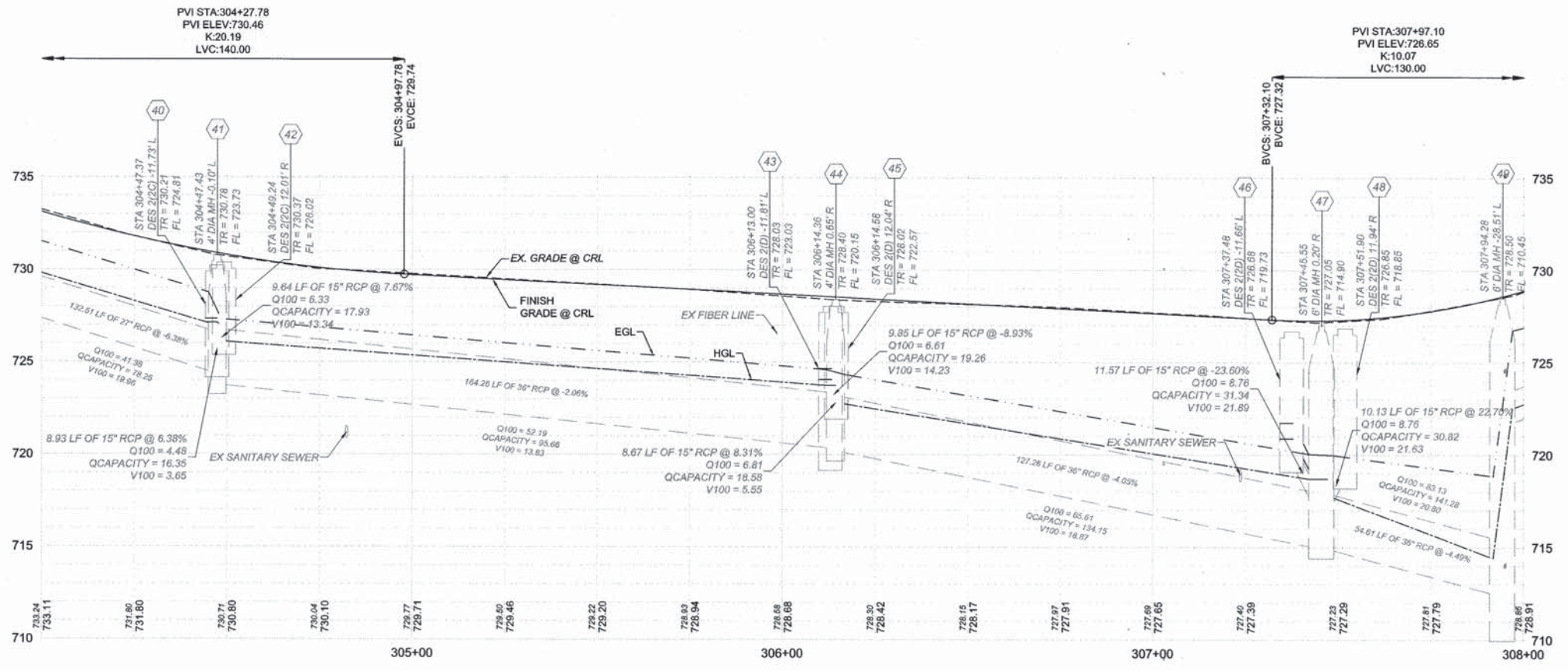
NOTE:
ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR
TO VERIFY EXACT LOCATION IN THE FIELD.

LEGEND

- 1 FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL)
- 2 CURB/GUTTER REPLACEMENT
- 3 MILL/OVERLAY PAVEMENT
- 4 CONCRETE DRIVE
- 5 VALLEY GUTTER
- 6 INLET ADJUST TO GRADE
- 7 ADJUST MANHOLE TO GRADE

EXISTING DRAINAGE STRUCTURE (XX)

PROPOSED DRAINAGE STRUCTURE (XX)



CAUTION
NOTICE TO CONTRACTOR
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BEFORE YOU DIG
CALL OKIE

PLAN & PROFILE SHT 11
S NEW HAVEN AVE STA 304+00 TO 308+00
MZ 8057 COT #2036N8057Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

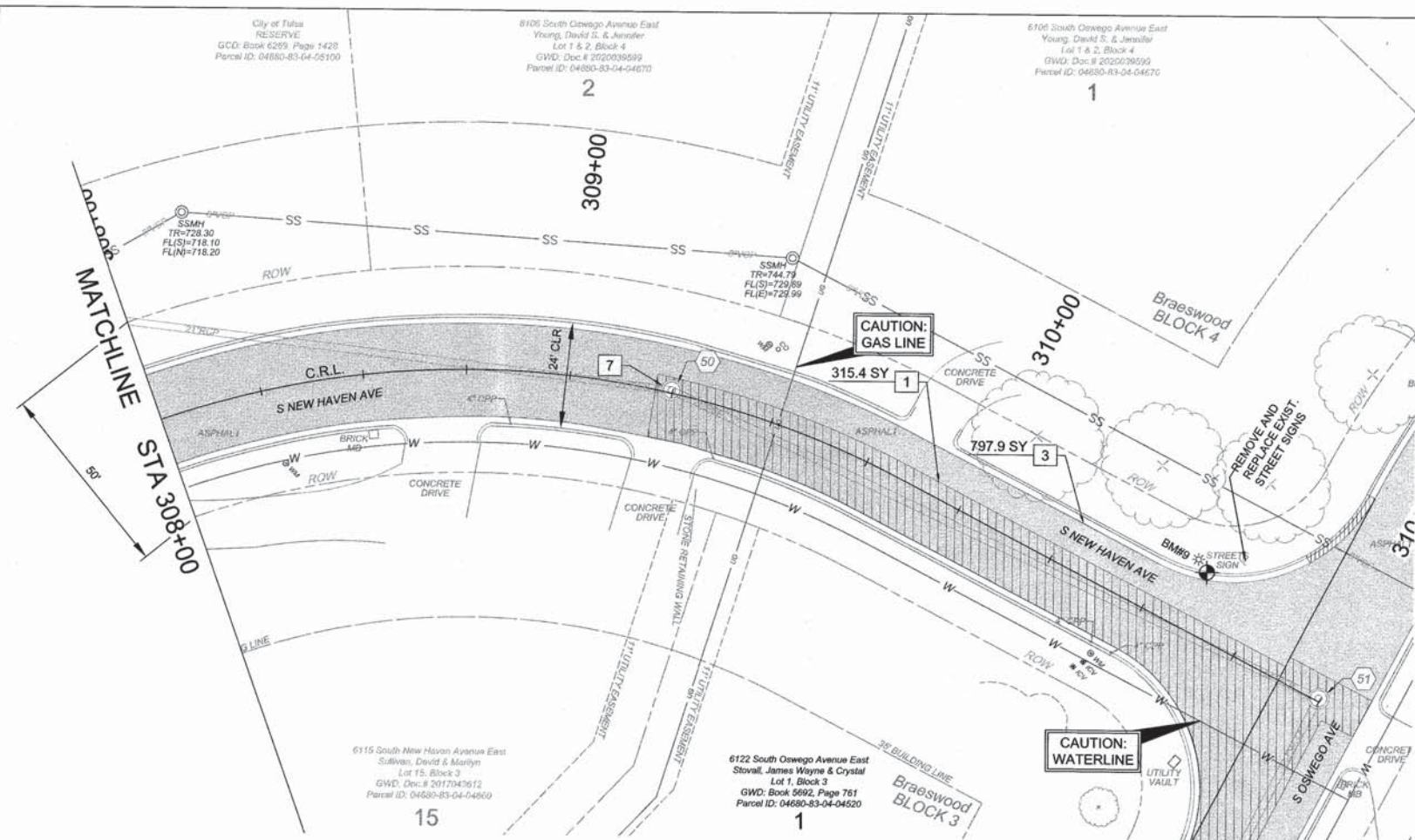
PLANS AND
ESTIMATE
PREPARED BY: WALLACE ENGINEERING
STRUCTURAL CONSULTANTS, INC.
123 N. MARTIN LUTHER KING JR. BLVD
CMA 1460 EXP. DATE 6-30-2023 (918)584-5858
TULSA, OK 74103

REVISION	BY	DATE

PLAN SCALE: 1"=20'

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

FILE: DRAWING: DATE: ATLAS PAGE NO: 471 SHEET 33 OF 41 SHEETS



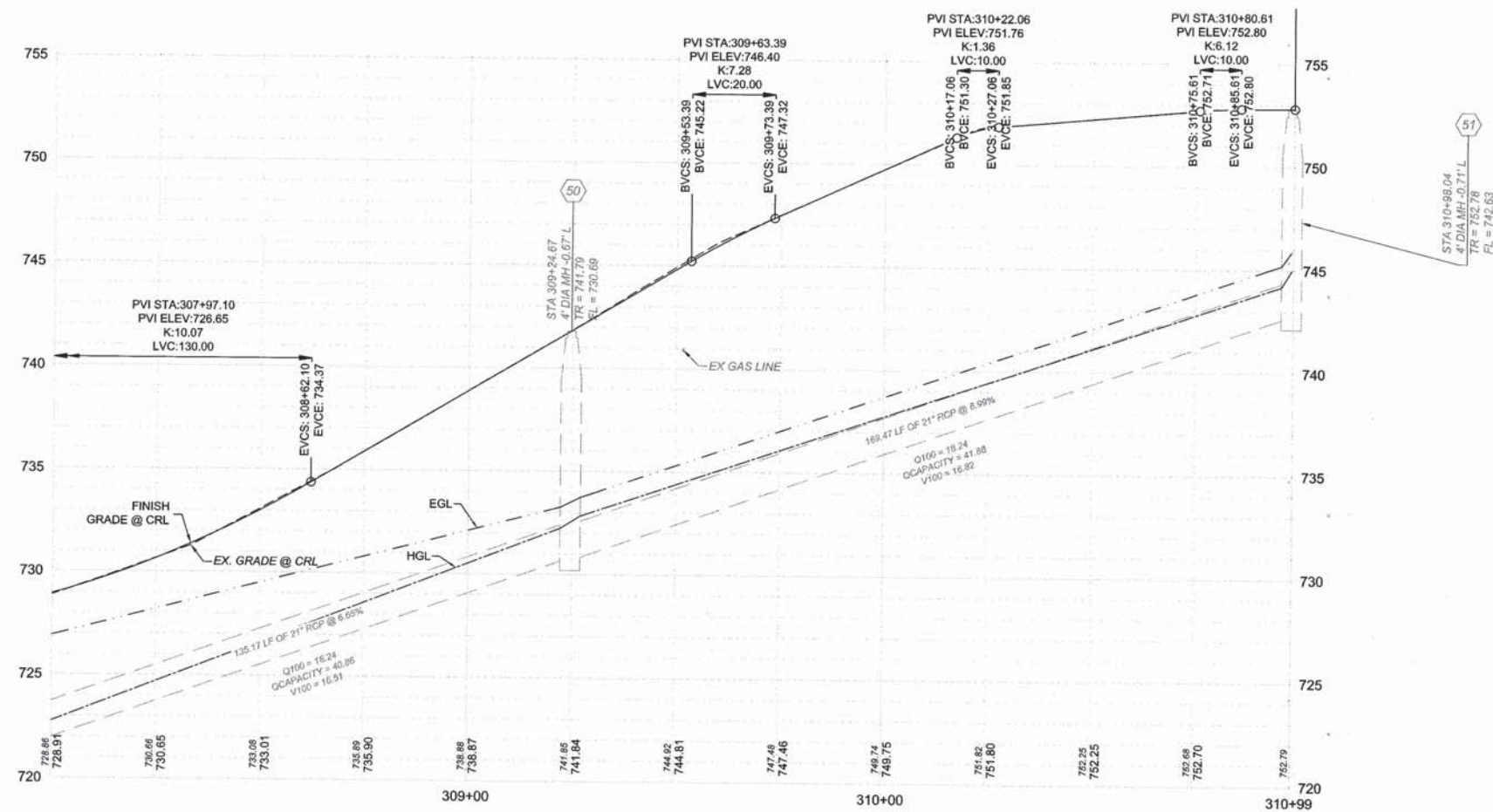
BENCHMARK
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 EL=752.79

NOTE:
 ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR
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LEGEND

- 1 FULL DEPTH ASPHALT PATCH
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- 4 CONCRETE DRIVE
- 5 VALLEY GUTTER
- 6 INLET ADJUST TO GRADE
- 7 ADJUST MANHOLE TO GRADE
- EXISTING DRAINAGE STRUCTURE
- PROPOSED DRAINAGE STRUCTURE

REGISTERED PROFESSIONAL ENGINEER
 LANCE K. WOOLSEY
 15383
 OKLAHOMA
 03/18/2022



CAUTION
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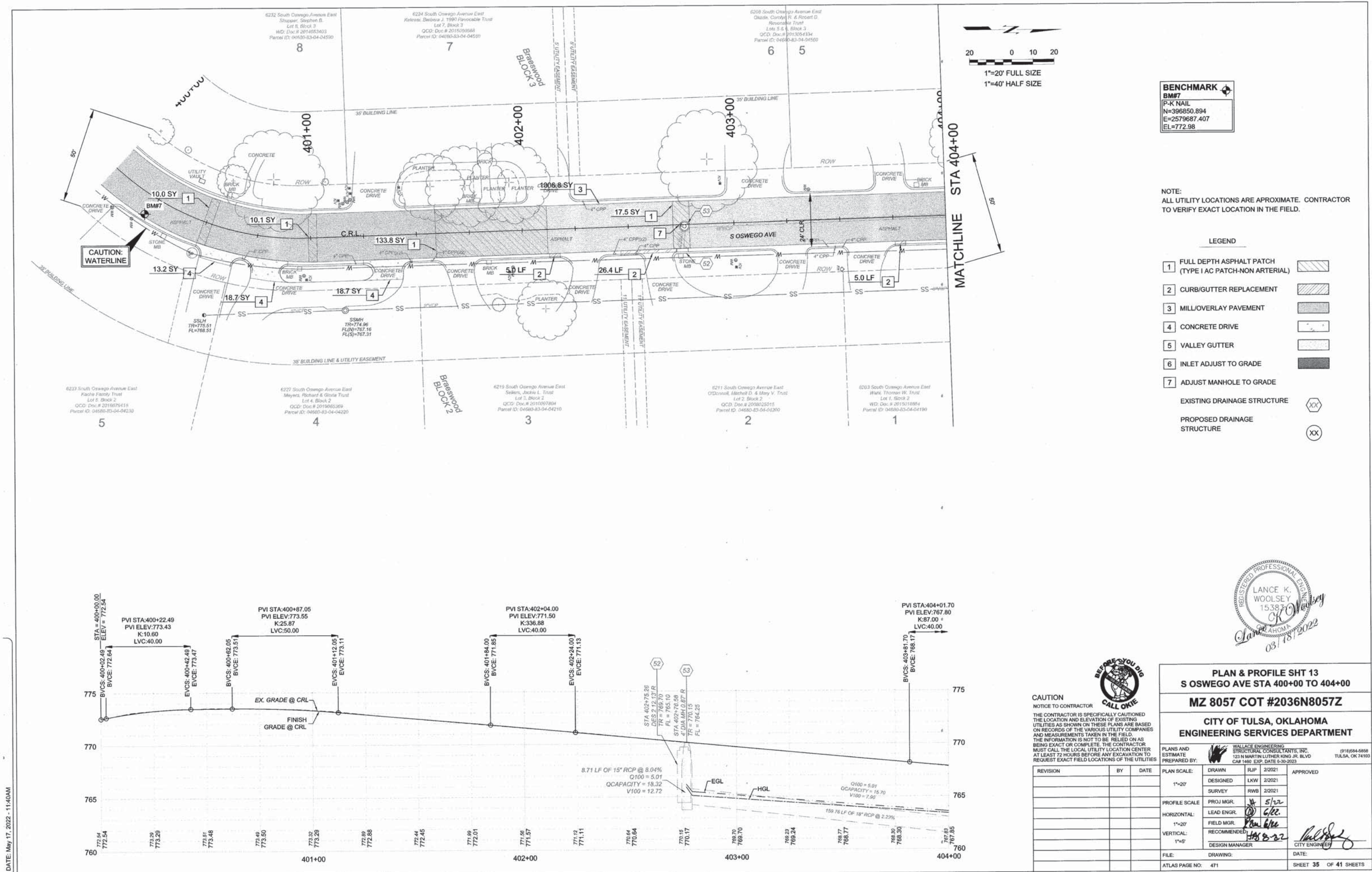


PLAN & PROFILE SHT 12			
S NEW HAVEN AVE STA 308+00 TO 310+99			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA			
ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CAB 1460 EXP. DATE 6-30-2023	(918) 584-5658 TULSA, OK 74103	
REVISION	BY	DATE	APPROVED
1	DESIGNED	LKW	2/20/21
2	SURVEY	RWB	2/20/21
3	PROJ MGR.	JH	5/22
4	LEAD ENGR.	JD	6/22
5	FIELD MGR.	Jim	6/22
6	RECOMMENDED	HAS	8-22
7	DESIGN MANAGER		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET	34 OF 41 SHEETS

Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z

DATE: May 17, 2022 - 11:40AM

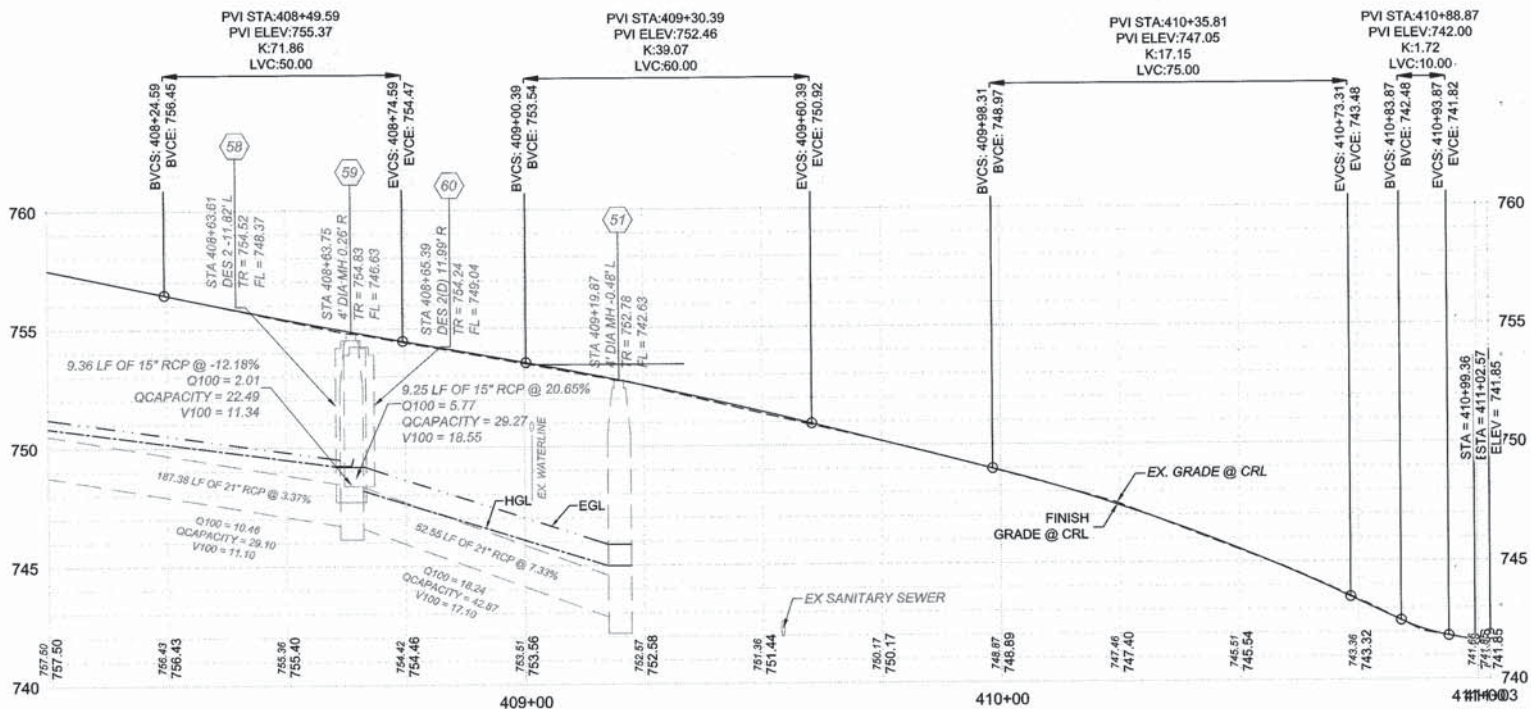
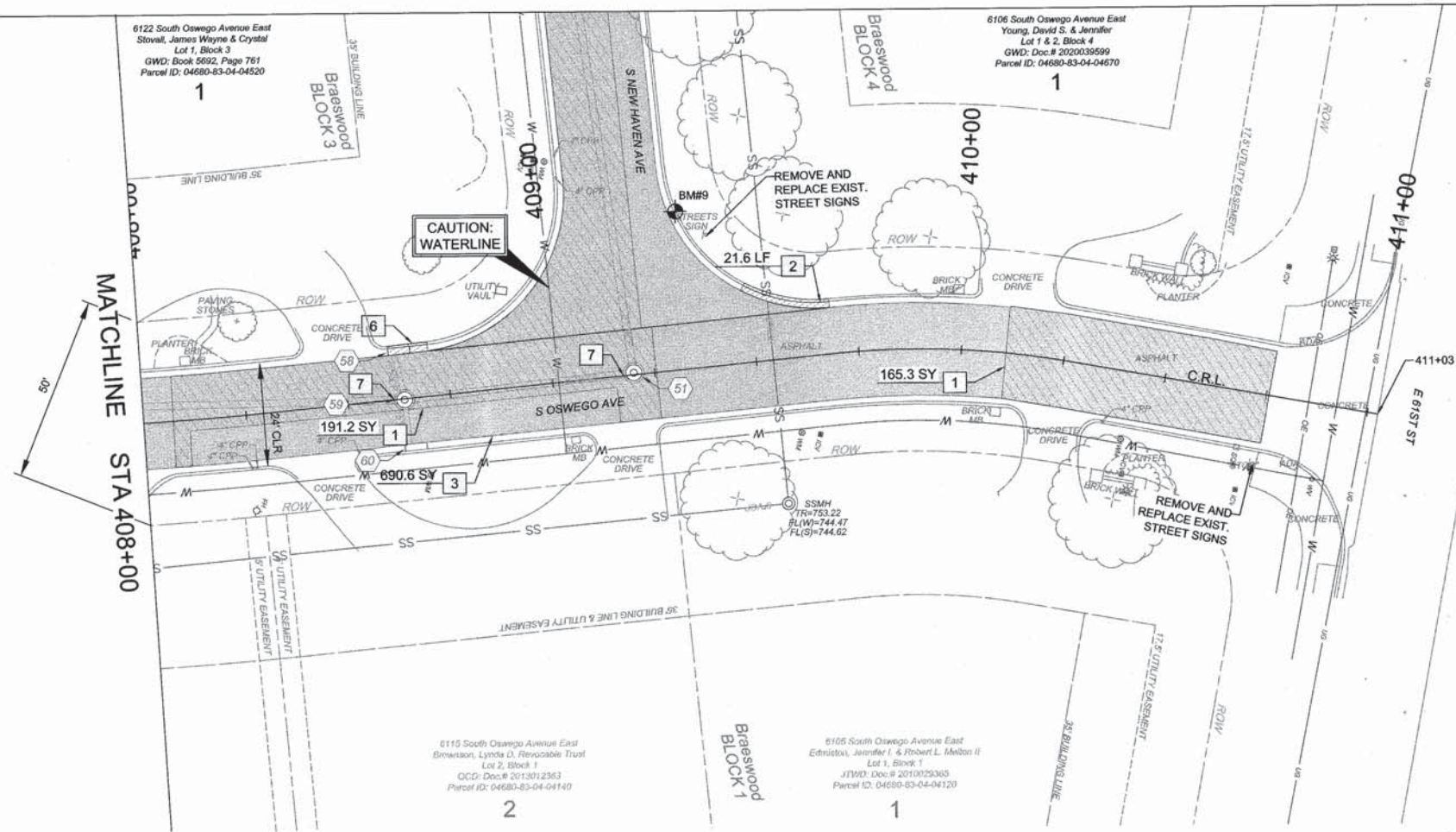
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Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z

DATE: MAY 11, 2022 - 11:41AM

server\Projects\2040150 MZ 8057\Dwg\Production\2040150 RDWY PLAN PROFILE.dwg, 5/17/2022 11:41:19 AM, DWG To PDF.pc3



CAUTION

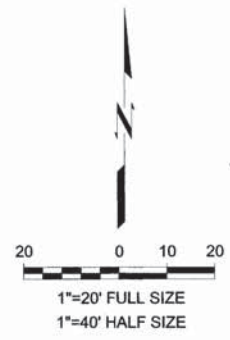
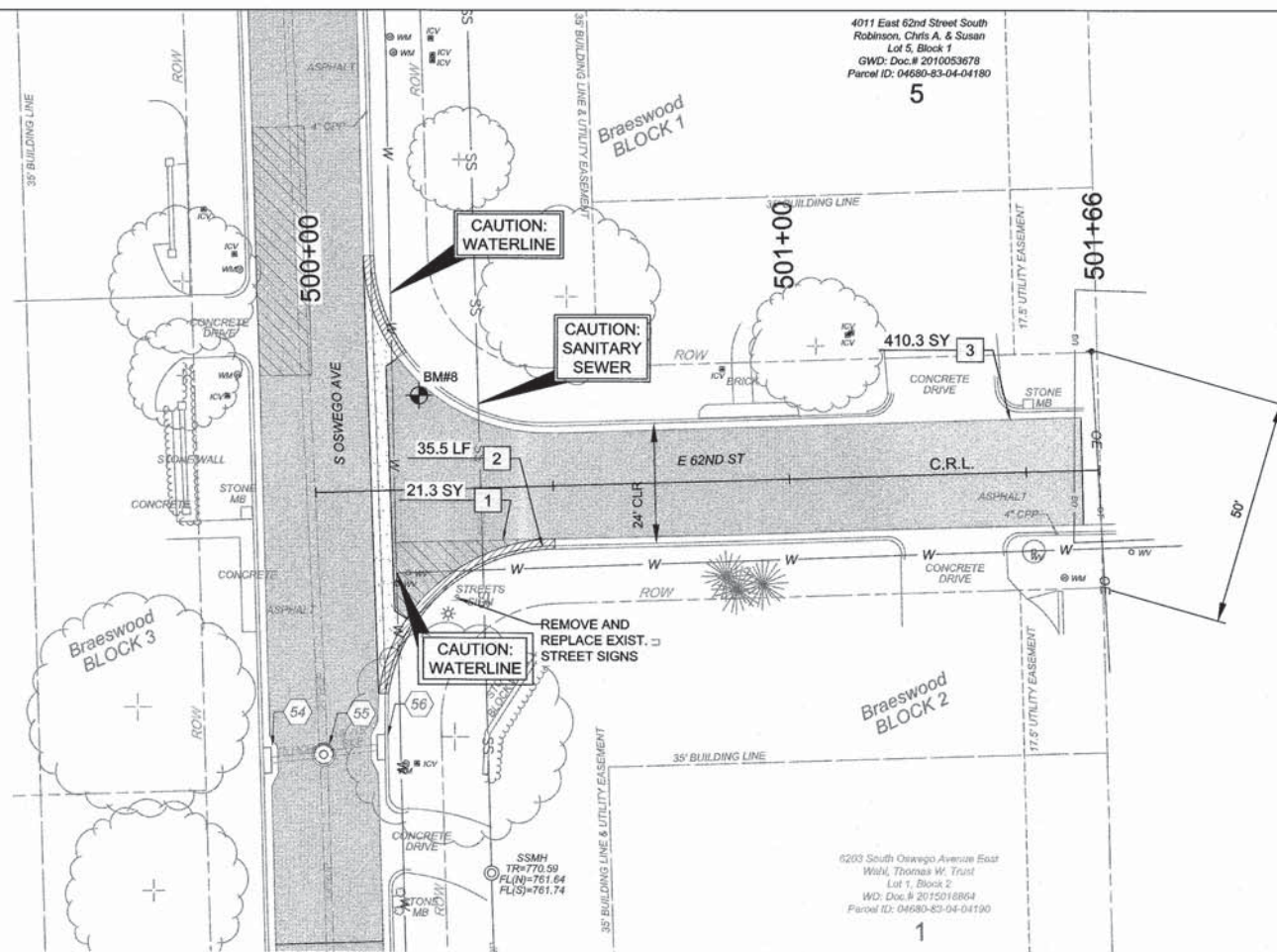
NOTICE TO CONTRACTOR

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

REVISION	BY	DATE

PLAN & PROFILE SHT 15			
S OSWEGO AVE STA 408+00 TO 411+03			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA			
ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING JR. BLVD CMA 1460 EXP. DATE 6-30-2023	(918)584-5858 TULSA, OK 74103	
PLAN SCALE:	DRAWN: RJP 2/2021	APPROVED:	
	DESIGNED: LKW 2/2021		
	SURVEY: RWB 2/2021		
PROFILE SCALE:	PROJ MGR: JH 5/22		
	LEAD ENGR: OD 6/22		
HORIZONTAL:	FIELD MGR: BOW 6/22		
	RECOMMENDED: HAS 8-22		
	DESIGN MANAGER:		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET 37	OF 41 SHEETS

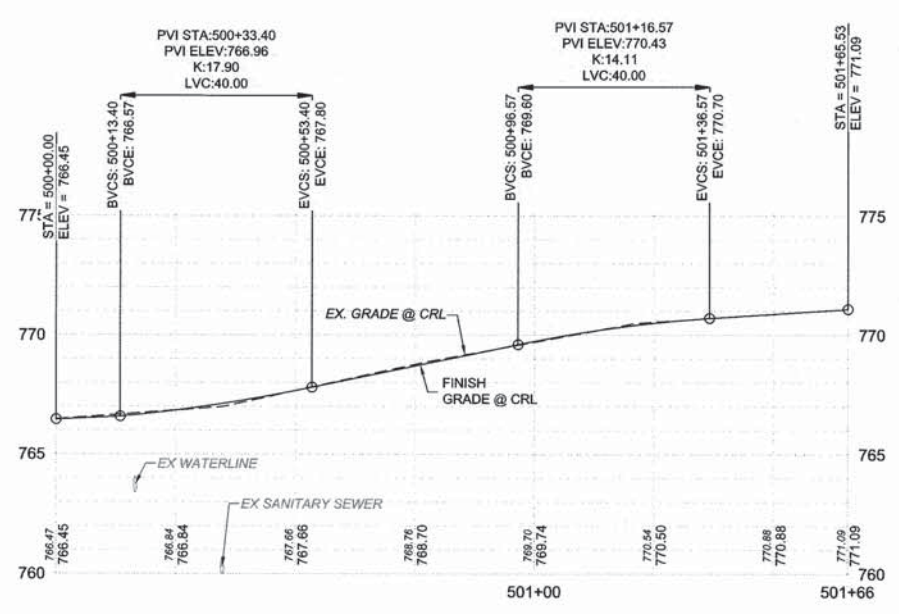
Non-Arterial Street Rehabilitation/Maintenance for Maintenance Zone 8057 - Project No. 2036N8057Z



BENCHMARK
BM#8
P-K NAIL
N=397345.357
E=2579708.882
EL=766.25

NOTE:
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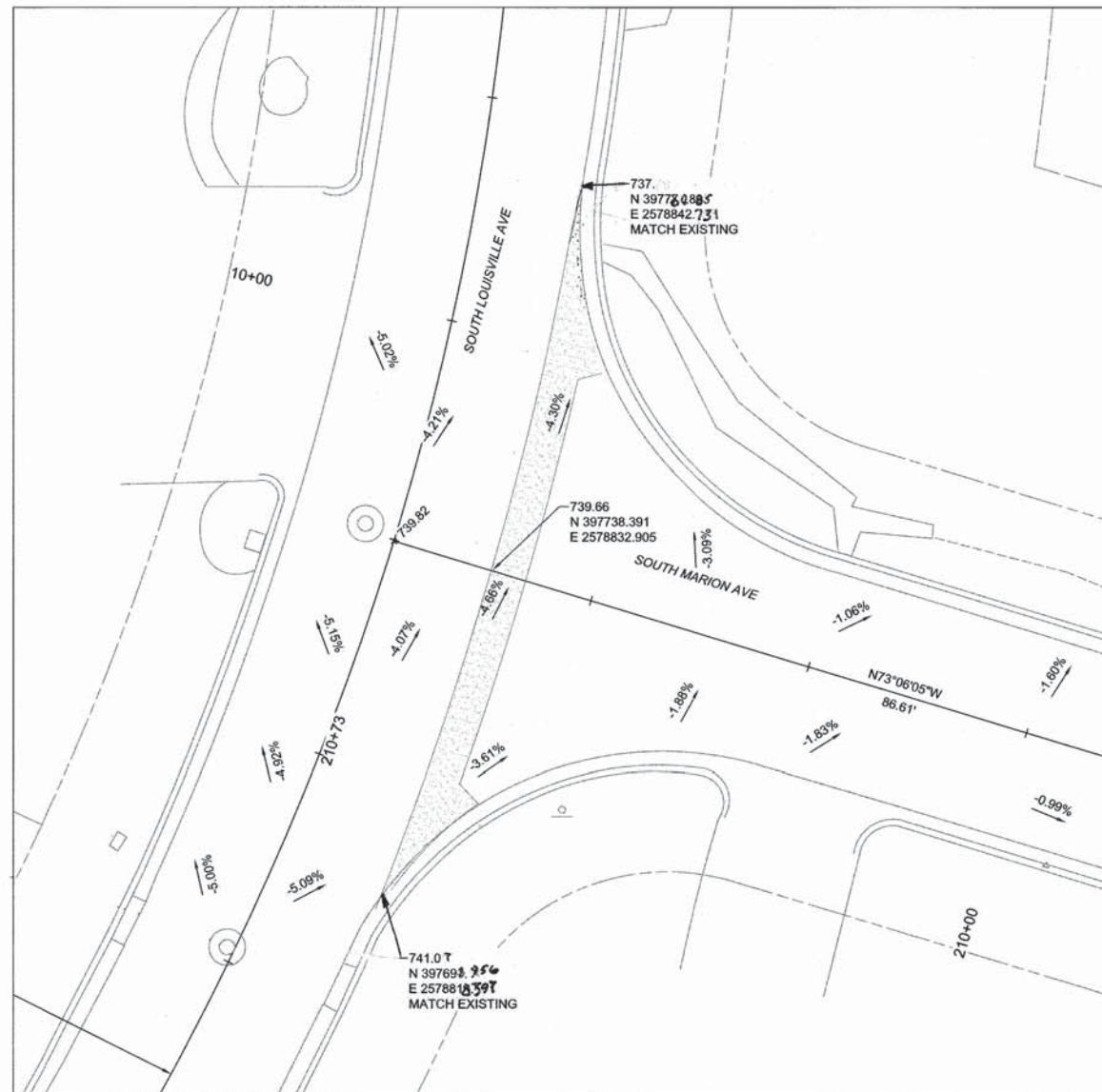
- LEGEND**
- 1 FULL DEPTH ASPHALT PATCH (TYPE I AC PATCH-NON ARTERIAL)
 - 2 CURB/GUTTER REPLACEMENT
 - 3 MILL/OVERLAY PAVEMENT
 - 4 CONCRETE DRIVE
 - 5 VALLEY GUTTER
 - 6 INLET ADJUST TO GRADE
 - 7 ADJUST MANHOLE TO GRADE
- EXISTING DRAINAGE STRUCTURE (XX)
- PROPOSED DRAINAGE STRUCTURE (XX)



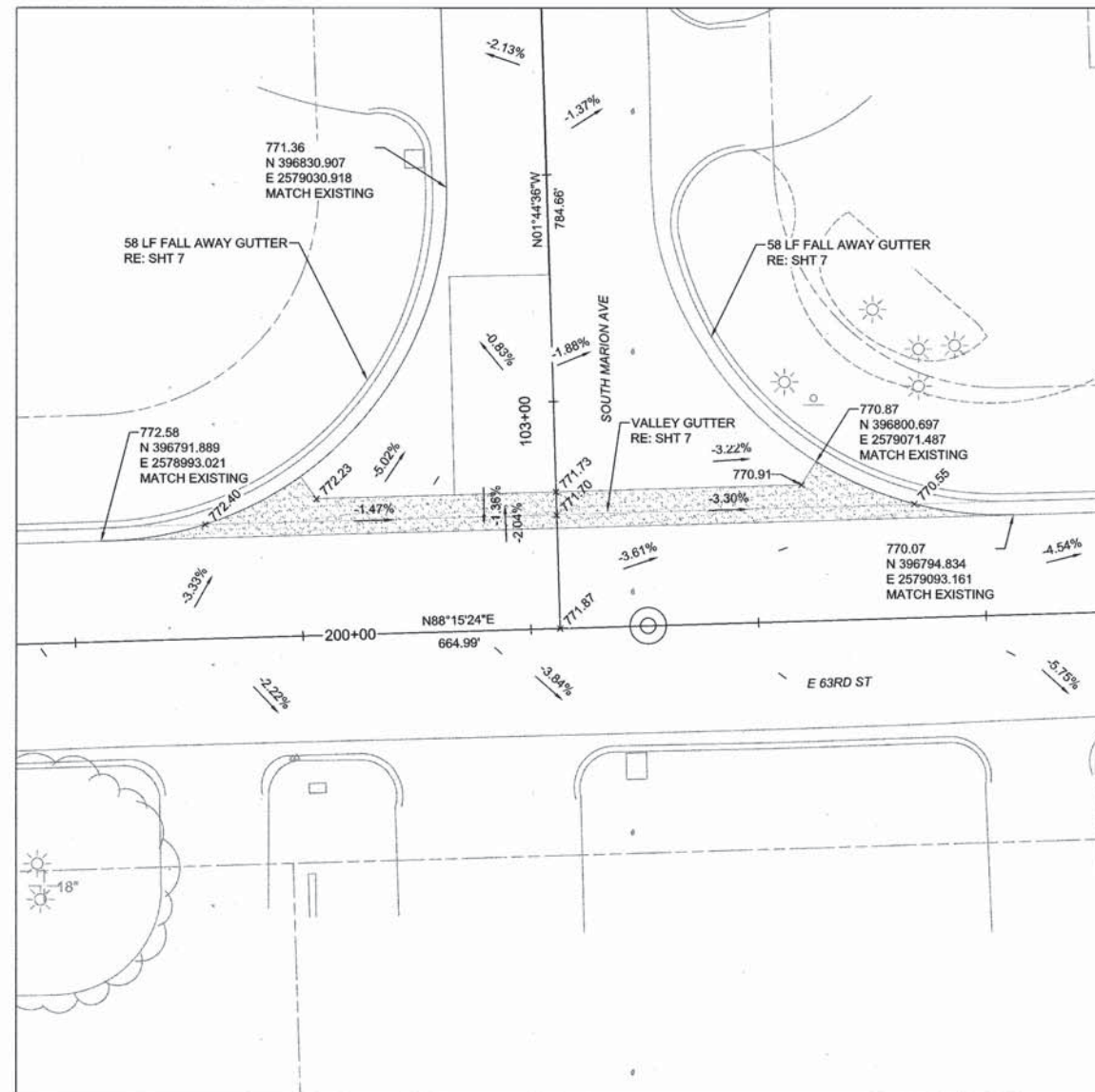
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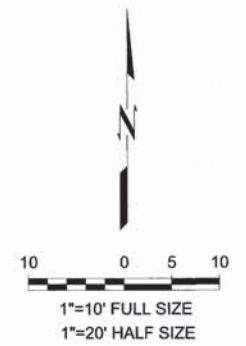
PLAN & PROFILE SHT 16 E 62ND ST S STA 500+00 TO 501+66			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:		WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N. MARTIN LUTHER KING JR. BLVD TULSA, OK 74103 (918) 584-5555	
REVISION	BY	DATE	APPROVED
1	DESIGNED	LKW 2/2021	
2	SURVEY	RWB 2/2021	
3	PROJ. MGR.	JH 5/22	
HORIZONTAL:		LEAD ENGR.	
VERTICAL:		RECOMMENDED	
FILE:		DRAWING:	CITY ENGINEER
ATLAS PAGE NO:		471	SHEET 38 OF 41 SHEETS



INTERSECTION DETAIL #1
S. LOUISVILLE AVE - S. MARION AVE



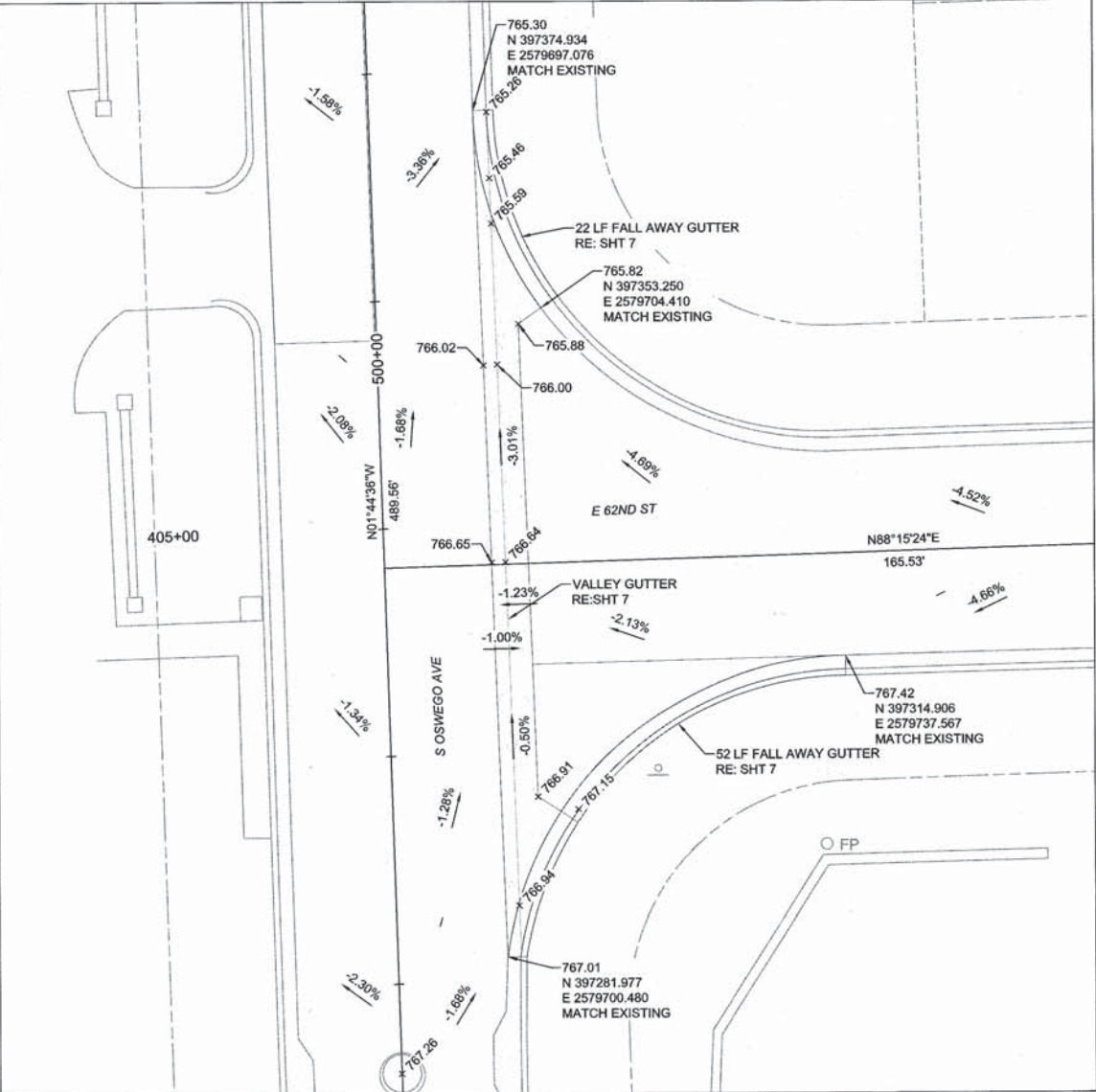
INTERSECTION DETAIL #2
E. 63RD ST - S. MARION AVE



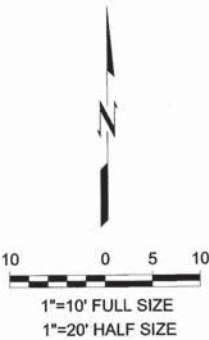
CAUTION
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REVISION	BY	DATE

INTERSECTION DETAILS 1			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N. MARTIN LUTHER KING, JR. BLVD TULSA, OK 74103 (918) 584-5858 CA# 1460 EXP. DATE 6-30-2023	APPROVED	
PLAN SCALE:	DRAWN: RJP 2/2021 DESIGNED: LKW 2/2021 SURVEY: RWB 2/2021	APPROVED	
PROFILE SCALE:	PROJ. MGR. JH 5/22 LEAD ENGR. @ 6/22 FIELD MGR. @ 6/22	APPROVED	
HORIZONTAL:	RECOMMENDED: HKS 8-22	APPROVED	
VERTICAL:	DESIGN MANAGER	APPROVED	
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO: 471		SHEET 39 OF 41 SHEETS	



INTERSECTION DETAIL #5
S. OSWEGO AVE - E. 62ND ST



CAUTION
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REVISION	BY	DATE

INTERSECTION DETAILS 3			
MZ 8057 COT #2036N8057Z			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATE PREPARED BY:	WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. 123 N MARTIN LUTHER KING, JR. BLVD TULSA, OK 74103 (918)584-5858 CA# 1460 EXP. DATE 6-30-2023		
PLAN SCALE:	DRAWN	RJP	2/2021
1"=10'	DESIGNED	LKW	2/2021
	SURVEY	RWB	2/2021
	PROFILE SCALE	PROJ MGR.	JH
HORIZONTAL:	LEAD ENGR.	DK	6/22
	FIELD MGR.	DK	6/22
VERTICAL:	RECOMMENDED	HAS B 22	
NA	DESIGN MANAGER		
FILE:	DRAWING:	DATE:	
ATLAS PAGE NO:	471	SHEET 41	OF 41 SHEETS