

**WATER AND SEWER**  
Engineering Design

**DATE:**  
June 3, 2026

**TO:**  
Plan Holders  
Contractors

**FROM:**  
Jenna Richardson  
918-596-9637  
[jennarichardson@cityoftulsa.org](mailto:jennarichardson@cityoftulsa.org)

# EMAIL TRANSMITTAL

ADDENDUM NO. 1

PROJECT NO. 153120, C1-8, SW-2023-01-12 & SW-2023-01-05  
56th ST. N. & MARTIN LUTHER KING JR BLVD SIDEWALK  
IMPROVEMENTS / KING RIDGE WALL REPLACEMENT COAL  
CREEK WALL REPLACEMENT

Number of pages: **12**

All addenda to the contract documents should be denoted on the  
last page of the Proposal in the space provided.

Thank you,  
Contract Administration



**WATER AND SEWER**  
Engineering Design

**DATE:**  
**June 3, 2026**

**ADDENDUM NO. 1**  
**TO**  
**PROJECT NO. 153120, C1-8, SW-2023-01-12 & SW-2023-01-05**  
**56<sup>th</sup> ST. N. & MARTIN LUTHER KING JR BLVD**  
**SIDEWALK IMPROVEMENTS / KING RIDGE WALL REPLACEMENT**  
**COAL CREEK WALL REPLACEMENT**

This Addendum No. 1 consisting of one (1) item, submitted by City of Tulsa is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.**

This Addendum No. 1 consists of the following:

1. The attached drawings, sheets 1 through 11 of 16, shall be inclusive and apply to this project.

**All other provisions of the Plans and Specifications shall remain in full force and effect.**

**CITY OF TULSA**

Eric Lee  
Director

FOR

HAS/TGP/BC/JR

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# KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS

PROJECT NO. SW-2023-01-12,  
SW-2023-01-05  
WATER AND SEWER DEPARTMENT  
CITY OF TULSA, OKLAHOMA

## SHEET INDEX

1. COVER SHEET
2. KINGS RIDGE GENERAL NOTES
3. KINGS RIDGE GENERAL NOTES
4. KINGS RIDGE QUANTITIES AND PAY ITEM NOTES
5. KINGS RIDGE PLANS
6. KINGS RIDGE DETAILS
7. COAL CREEK GENERAL NOTES
8. COAL CREEK GENERAL NOTES
9. COAL CREEK QUANTITIES AND PAY ITEM NOTES
10. COAL CREEK PLANS
11. COAL CREEK DETAILS
12. COAL CREEK CIVIL GENERAL NOTES
13. COAL CREEK SURVEY
14. COAL CREEK DEMOLITION & EROSION CONTROL PLAN
15. COAL CREEK SITE & GRADING PLAN
16. COAL CREEK WALL PROFILE & SECTIONS

**GENERAL**  
CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF TULSA STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS AND OKLAHOMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, AND TAP FEES, ETC.

RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.

NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

## SURVEY DATA

1. HORIZONTAL CONTROL:
  - A. OKLAHOMA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE, (NAD83)
  - B. ACCURACY - 3RD ORDER OR BETTER.
2. BEARINGS:
  - A. THE BEARING SHOWN HEREIN ARE GRID BEARINGS DERIVED FROM THE OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL
3. VERTICAL CONTROL:
  - A. LEVEL DATUM IS NAVD 1988
  - B. ACCURACY - 3RD ORDER OR BETTER.

## PLANS PREPARED BY



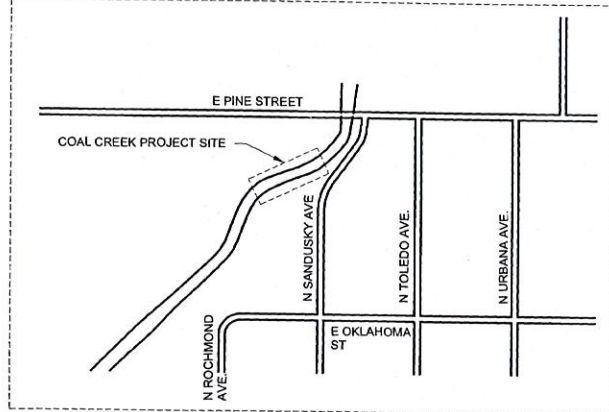
wallace  
design  
collective

wallace design collective, pc  
structural-civil landscape survey  
123 north martin luther king jr boulevard  
tulsa, oklahoma 74133  
918.584.5658 800.364.5658

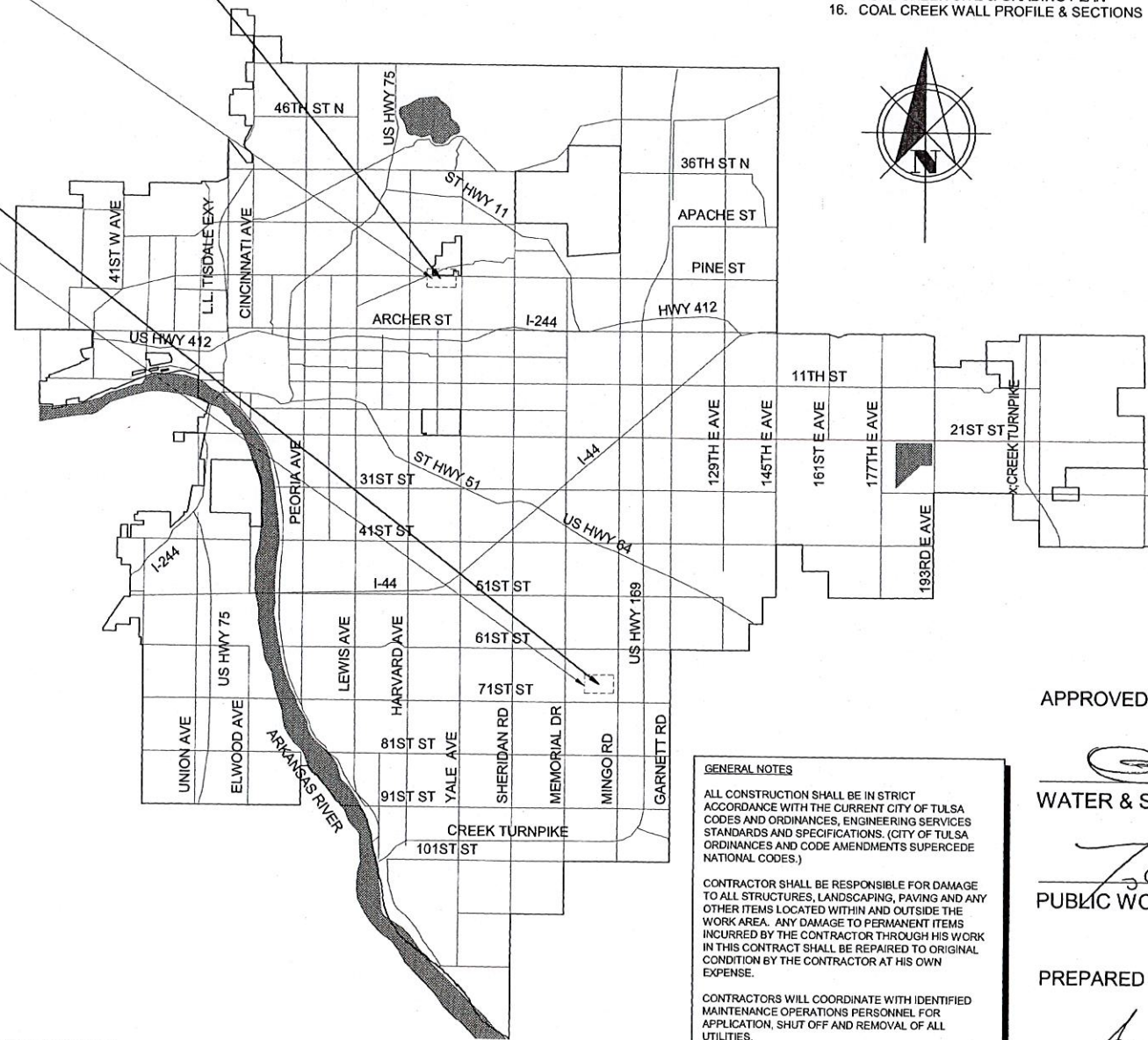
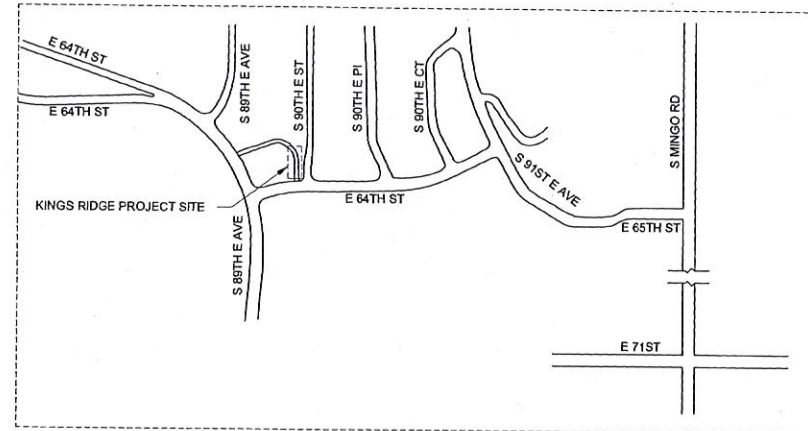
Oklahoma Certificate of  
Authorization #1460  
Expiration Date: 6/30/27

**CITY OF TULSA** WATER AND SEWER  
DEPARTMENT  
CITY OF TULSA, OKLAHOMA

COAL CREEK WALL REPLACEMENT: SHEETS 7-11  
PROJECT LOCATION  
1500 N SANDUSKY AVE.  
TULSA, OK. 76115



KINGS RIDGE CHANNEL WALL: SHEETS 1-6  
PROJECT LOCATION  
S 90TH E AVE. AND E 64TH ST.  
TULSA, OK. 74133



VICINITY MAP  
NOT TO SCALE

### GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT CITY OF TULSA CODES AND ORDINANCES, ENGINEERING SERVICES STANDARDS AND SPECIFICATIONS. (CITY OF TULSA ORDINANCES AND CODE AMENDMENTS SUPERCEDE NATIONAL CODES.)

CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL STRUCTURES, LANDSCAPING, PAVING AND ANY OTHER ITEMS LOCATED WITHIN AND OUTSIDE THE WORK AREA. ANY DAMAGE TO PERMANENT ITEMS INCURRED BY THE CONTRACTOR THROUGH HIS WORK IN THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE.

CONTRACTORS WILL COORDINATE WITH IDENTIFIED MAINTENANCE OPERATIONS PERSONNEL FOR APPLICATION, SHUT OFF AND REMOVAL OF ALL UTILITIES.

APPROVED BY:

*[Signature]* 10-10-2025  
WATER & SEWER DIRECTOR DATE

*[Signature]* 11/3/2025  
PUBLIC WORKS DIRECTOR DATE

PREPARED BY:

*[Signature]*  
ANDREW M. KERN, OK P.E. No. 22259  
Oklahoma Certificate of Authorization #1460  
Expiration Date: 6/30/27



### 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

### UTILITY COORDINATION

UTILITY/DEPARTMENT	918-596-9245
OKLAHOMA ONE-CALL SYSTEM, INC.	1-800-522-6543
CITY OF TULSA ENGINEERING SERVICES DEPARTMENT	
WATER DESIGN	918-596-9566
WASTEWATER DESIGN	918-596-9564
TRANSPORTATION DESIGN	918-596-9636
TRAFFIC ENGINEERING DESIGN	918-596-9741
COT TRAFFIC ENGINEER	918-596-9498
STORMWATER DESIGN	918-596-9498
UTILITY COORDINATOR	918-596-9245
OKLAHOMA NATURAL GAS	918-831-8261
AT&T	918-596-6702
AEP/PSO	918-599-2757
MCI	1-800-762-1709
COX COMMUNICATIONS	918-699-4866

THE ENTIRE PROJECT IS WITHIN CORPORATE LIMITS OF CITY OF TULSA (COT)

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

**CODE AND DESIGN CRITERIA**

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

- INTERNATIONAL BUILDING CODE, 2018 EDITION
- STRUCTURE RISK CATEGORY
- RISK CATEGORY I
- ROOF SNOW LOAD DATA
  - GROUND SNOW LOAD  $P_g = 10$  PSF
- EARTHQUAKE DESIGN DATA
  - SEISMIC IMPORTANCE FACTOR  $I_e = 1.00$
  - MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
    - 0.2-SECOND PERIOD  $S_s = 0.132$
    - 1.0-SECOND PERIOD  $S_1 = 0.073$
  - SITE CLASS
  - DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
    - 0.2-SECOND PERIOD  $S_{DS} = 0.141$
    - 1.0-SECOND PERIOD  $S_{D1} = 0.116$
  - SEISMIC DESIGN CATEGORY SDC B

**GENERAL**

- NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- THE CONTRACT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS, BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
- MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
- THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS, LOCATIONS, AND DEPTHS OF SLAB RECESSES WITH ARCHITECTURAL DRAWINGS, INTERIOR DRAWINGS, AND PRODUCT MANUFACTURERS.
- THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
- THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
- REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
- REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.

**FOUNDATION**

- THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY KLEINFELDER, PROJECT NUMBER 24002121.001A, DATED 18 SEPTEMBER 2023. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
- STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
- INDIVIDUAL CONTINUOUS SPREAD FOOTINGS, SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 5000 PSF.
- EARTH-RETAINING FOUNDATIONS AND WALLS ARE DESIGNED FOR THE FOLLOWING NOMINAL SOIL CRITERIA:
  - ALLOWABLE SOIL BEARING PRESSURE 5000 PSF
  - EQUIVALENT LATERAL FLUID PRESSURE — ACTIVE CASE 38 PSF/FT
  - EQUIVALENT LATERAL FLUID PRESSURE — PASSIVE CASE 360 PSF/FT
  - COEFFICIENT OF SLIDING FRICTION 0.3 (1.5 SF)
  - FINE-GRAINED MATERIAL (SILT/CLAY) SHALL NOT BE USED AS FOUNDATION WALL BACKFILL MATERIAL. SEE SPECIFICATIONS FOR FOUNDATION WALL BACKFILL REQUIREMENTS.
  - PROVIDE GEOTEXTILE FABRIC AGAINST UNDISTURBED SOIL SLOPE BEFORE BACKFILLING.
  - ALL FOUNDATION WALLS SHALL BE PROPERLY DRAINED.
- CLEAR SUBGRADE BY STRIPPING ALL VEGETATION, TOPSOIL, ORGANIC SOILS, UNSTABLE FILL, LOOSE ROCK FRAGMENTS GREATER THAN 6 INCHES IN DIAMETER, DEBRIS, AND OTHER DEBRIS UNSUITABLE EXISTING FILL AND MATERIALS (AS DETERMINED BY A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY) SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH, AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL).

- FOR EXCAVATIONS MADE DURING THE WET OR RAINY SEASON, THE CONTRACTOR IS RECOMMENDED TO USE A 2 INCH TO 3 INCH THICK, LEAN CONCRETE, MUD MAT TO PROTECT THE INTEGRITY OF THE BEARING MATERIAL.
- THE TIME BETWEEN CONCRETE TRUCK LOADS DURING A CONCRETE PLACEMENT FOR SPREAD FOOTINGS, CONTINUOUS FOOTINGS, PILE CAPS, MATS, GRADE BEAMS, AND TIE BEAMS SHALL NOT CAUSE UNPLANNED COLD JOINTS.

**CAST-IN-PLACE CONCRETE**

- CONCRETE WORK SHALL CONFORM TO ACI 301, ACI 318, AND CRSI STANDARDS.
- CONCRETE SHALL BE THE FOLLOWING SPECIFIED PROPERTIES (MINIMUM EXPOSURE CLASS, MINIMUM 28 DAY COMPRESSIVE STRENGTH, AND MAXIMUM WATER CEMENTITIOUS MATERIALS RATIO):
 

ELEMENT	EXPOSURE CLASS	STRENGTH	W/CM
WALL/FOUNDATIONS	F2 S0 W1 C1	4500 PSI	0.45
EXTERIOR GRADE-SUPPORTED SLABS	F3 S0 W0 C2	5000 PSI	0.40
- DO NOT PLACE PIPES, CONDUITS, OR DUCTS INSIDE AND RUNNING PARALLEL TO BEAMS WITHOUT PRIOR AUTHORIZATION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
- PIPES, CONDUITS, OR DUCTS SHALL NOT EXCEED ONE-FIFTH OF THE SLAB OR WALL THICKNESS (INCLUDING CROSSINGS) UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL DESIGN PROFESSIONAL. PLACE ALL PIPES, CONDUITS, AND DUCTS IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE THE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC. CONDUIT IN COMPOSITE SLABS SHALL NOT EXCEED 3/4 INCH DIAMETER EMT AND SHALL NOT BE SPACED CLOSER THAN 12 INCHES.
- CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- DEFECTIVE AREAS IN CONCRETE, INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.018 INCH SHALL BE REPAIRED. THE EXTENT OF THE DEFECTIVE AREAS WILL BE DETERMINED BY THE DESIGN PROFESSIONAL.
- CONCRETE MIX DESIGN FOR 4500 PSI CONCRETE SHALL BE BASED ON A MAXIMUM AGGREGATE SIZE OF 3/4 INCH, MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO OF 0.45 FOR NON-AIR-ENTRAINED CONCRETE AND 0.40 FOR AIR-ENTRAINED CONCRETE, AND A MAXIMUM SLUMP OF 4 INCHES. AIR-ENTRAINED CONCRETE SHALL BE USED FOR EXTERIOR EXPOSED CONCRETE WITH AN AIR CONTENT BETWEEN 5.5 AND 7.5 PERCENT.
- CONCRETE GRADE SUPPORTED SLABS SHALL NOT BE LOADED UNTIL A MINIMUM CONCRETE STRENGTH OF 1800 PSI IS OBTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH IS ATTAINED.
- CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND COT 335 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM, CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 100 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.
- C.I. ON THE SLAB AND FOUNDATION PLAN INDICATES KEY-FORMED CONSTRUCTION JOINTS OR SAW-CUT CONSTRUCTION JOINTS IN THE CONCRETE GRADE SUPPORTED SLAB. SAW-CUT CONSTRUCTION JOINTS SHALL BE INSTALLED WITHIN 12 HOURS OF SLAB PLACEMENT. CONTINUE REINFORCEMENT THROUGH JOINTS. CONSTRUCTION AND/OR CONSTRUCTION JOINTS SHALL BE SPACED NO FARTHER APART THAN 48 TIMES THE SLAB THICKNESS ON CENTER IN EACH DIRECTION, CREATING PANELS WITH AN ASPECT RATIO NOT GREATER THAN 1.5:1.
- UNLESS NOTED OTHERWISE, ALL REINFORCING SHALL BE CONTACT LAP SPICED WITH A CLASS B SPICE IN ACCORDANCE WITH ACI 318. FOR BARS WITH MINIMUM COVER AND SPACING GREATER THAN 2-#4 AND 3-#4 RESPECTIVELY, THE MINIMUM SPICE LENGTH OF NOT LESS THAN 48-#4 SHALL BE USED (WHERE #4 IS THE BAR DIAMETER). SPICE LENGTHS SHALL BE INCREASED BY A FACTOR OF 1.3 FOR TOP REINFORCEMENT. LAP WELDED WIRE FABRIC (WVW) ONE SPACE PLUS 2 INCHES ON ALL SIDES AT SPICES.
- ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A CHAMFER OR RADIUS OF 3/4 INCH UNLESS NOTED OTHERWISE.
- CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES (UNLESS NOTED OTHERWISE OR REQUESTED BY THE OWNER OR ARCHITECTURAL DESIGN PROFESSIONAL):
  - INTERIOR EXPOSED SLABS: STEEL TROWEL FINISH
  - EXTERIOR SLABS: BROOM FINISH IN THE DIRECTION OF SLOPE
  - ALL OTHER CONCRETE: STEEL TROWEL FINISH
- MAINTAIN CONCRETE AFTER PLACEMENT WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR THE HYDRATION OF CEMENT AND HARDENING OF CONCRETE (NOT LESS THAN SEVEN DAYS). CURING AND PROTECTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 308 — STANDARD PRACTICE FOR CURING CONCRETE (AMERICAN CONCRETE INSTITUTE). A COMBINATION OF CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS HAVE BEEN REMOVED. COMPOUNDS SHALL MEET THE REQUIREMENTS OF ASTM C1315 AND BE APPROVED BY THE ARCHITECTURAL DESIGN PROFESSIONAL FOR COMPATIBILITY WITH FLOOR FINISHES.

CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF TULSA STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS AND OKLAHOMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, AND TAP FEES, ETC.

ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.

RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.

NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

**SPECIAL INSPECTION REQUIREMENTS (2018)**

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION IF THE DISCREPANCIES ARE NOT CORRECTED. THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
- FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
- SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

		FREQUENCY OF INSPECTION	
		CONTINUOUS	PERIODIC
<b>CONCRETE CONSTRUCTION (IBC TABLE 1705.3)</b>			
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	—	X
2.	REINFORCING BAR WELDING: <ul style="list-style-type: none"> <li>A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; — X</li> <li>B. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM 5/16"; AND — X</li> <li>C. INSPECT ALL OTHER WELDS. X —</li> </ul>		
3.	INSPECT ANCHORS CAST IN CONCRETE. — X		
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a) <ul style="list-style-type: none"> <li>A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. X —</li> <li>B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. — X</li> </ul>		
5.	VERIFY USE OF REQUIRED DESIGN MIX. — X		
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. X —		
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES. X —		
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. — X		
9.	INSPECT PRESTRESSED CONCRETE FOR: <ul style="list-style-type: none"> <li>A. APPLICATION OF PRESTRESSING FORCES; AND X —</li> <li>B. GROUTING OF BONDED PRESTRESSING TENDONS. X —</li> </ul>		
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. — X		
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. — X		
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. — X		
	a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
<b>SOILS (IBC TABLE 1705.6)</b>			
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. — X		
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. — X		
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. — X		
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. X —		
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. — X		
	** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
	** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

REFER TO COT 335 FOR ADDITIONAL INSPECTION INFORMATION.

**ABBREVIATIONS**

AB	ANCHOR BOLT	HORIZ	HORIZONTAL
ADDL	ADDITIONAL	HS	HIGH STRENGTH
ADH	ADHESIVE	HSA	HEADED STUD ANCHOR
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	INT	INTERIOR
AFF	ABOVE FINISHED FLOOR	JBE	JOIST BEARING ELEVATION
ALT	ALTERNATE	JT	JOINT
AOR	ARCHITECT OF RECORD	K	KIPS
ARCH	ARCHITECT / ARCHITECTURAL	KSF	KIPS PER SQUARE FOOT
B	BOTTOM	KSI	KIPS PER SQUARE INCH
B <sub>xxxx</sub>	BOTTOM OF xxxx	LBS	POUNDS
BFF	BELOW FINISHED FLOOR	LF	LINEAR FEET
BL	BLOCK LINTEL	LL	LIVE LOAD
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BP	BASE PLATE	LW	LONGITUDINAL
BRG	BEARING	LV	LONG WEIGHT
CFMF	COLD FORMED METAL FRAMING	MATL	MATERIAL
CIP	CAST IN PLACE	MAX	MAXIMUM
CJ	CONSTRUCTION JOINT	MECH	MECHANICAL
CJP	COMPLETE JOINT PENETRATION	MEP	MECHANICAL/ELECTRICAL/PLUMBING
CL	CENTER LINE	MFR	MANUFACTURER / MANUFACTURING
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN	MS	MIDDLE STRIP
COMP	COMPOSITE	MTL	METAL
CONC	CONCRETE	NA	NOT APPLICABLE
CONN	CONNECTION	NC	NOT IN CONTACT
CONST	CONSTRUCTION	NS	NEAR SIDE
CONT	CONTINUOUS	NTS	NOT TO SCALE
COORD	COORDINATE	NW	NORMAL WEIGHT
CS	COLUMN STRIP	OC	ON CENTER
CW	CURTAIN WALL	OH	OPPOSITE HAND
DBA	DEFORMED BAR ANCHOR	OPNG	OPENING
DRE	DECK BEARING ELEVATION	OPP	OPPOSITE
DBL	DOUBLE	PAF	POWER / POWDER ACTUATED FASTENER
DIA	DIAMETER	PC	PILE / PIER CAP
DL	DEAD LOAD	PCC	PRECAST CONCRETE
DN	DOWN	PCF	POUNDS PER CUBIC FOOT
DP	DRILLED PIER	PEMB	PRE-ENGINEERED METAL BUILDING
DTL	DETAIL	PJF	PREFORMED JOINT FILLER
DWG	DRAWING	PJP	PARTIAL JOINT PENETRATION
DWL	DOWEL	PL	PLATE
EE	EACH END	PLF	POUNDS PER LINEAR FOOT
EF	EACH FACE	PSF	POUNDS PER SQUARE FOOT
EJ	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH
EL	ELEVATION	R	REACTION
EMBED	EMBEDMENT / EMBEDDED	RAD	RADIUS
ENG	ENGINEER / ENGINEERING	RD	ROOF DRAIN
ENG	ENGINEER / ENGINEERING	REF	REFER TO
EOD	EDGE OF DECK	REINF	REINFORCING / REINFORCEMENT
EOR	ENGINEER OF RECORD	REQD	REQUIRED
EOS	EDGE OF SLAB	RO	ROUGH OPENING
EQ	EQUAL	RTU	ROOF TOP UNIT
EQUIP	EQUIPMENT	SCHED	SCHEDULE
EW	EACH WAY	SDS	SELF-DRILLING SCREWS
EXIST	EXISTING	SF	SQUARE FEET
EXP	EXPANSION	SM	SIMILAR
EXT	EXTERIOR	SP	SPECIAL
F <sub>xxxx</sub>	FACE OF	SPA	SPACE / SPACING
FD	FLOOR DRAIN	SPECS	SPECIFICATIONS
FDN	FOUNDATION	SQ	SQUARE
FFE	FINISHED FLOOR ELEVATION	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FS	FAR SIDE	STIFF	STIFFENER
FT	FEET	STL	STEEL
FTG	FOOTING	STR	STRUCTURE / STRUCTURAL
FV	FIELD VERIFY	SW	SHEAR WALL
GA	GAUGE	SYM	SYMMETRICAL
GALV	GALVANIZED	T	TOP
GB	GRADE BEAM	T&B	TOP AND BOTTOM
GC	GENERAL CONTRACTOR	T <sub>xxxx</sub>	TOP OF xxxx
GR	GRADE	TRANS	TRANSVERSE
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
		WP	WORK POINT
		WWR	WELDED WIRE REINFORCEMENT



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**KINGS RIDGE GENERAL NOTES**

**KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS**

**CITY OF TULSA, OKLAHOMA**  
 WATER AND SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: WALLACE DESIGN COLLECTIVE  
 25110211.01 Tulsa, Oklahoma 74103

REVISION	BY	DATE	PLAN SCALE:	DRAWN	DATE
			AS NOTED	DESIGNED	
				SURVEY	
			PROFILE SCALE:	PROJ MGR	TW 10/25
			N/A	LEAD MGR	10/25
			HORIZONTAL:	FIELD MGR	10/25
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			DRAWING:		
			ATLAS PAGE NO. 468	DATE	09/30/2025
				SHEET	2 OF 18 SHEETS

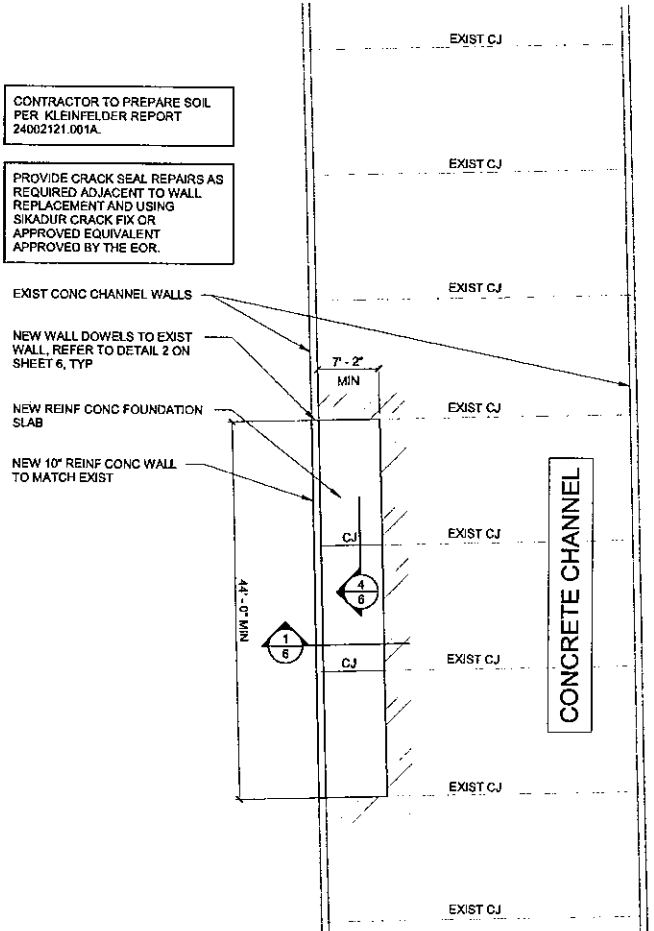
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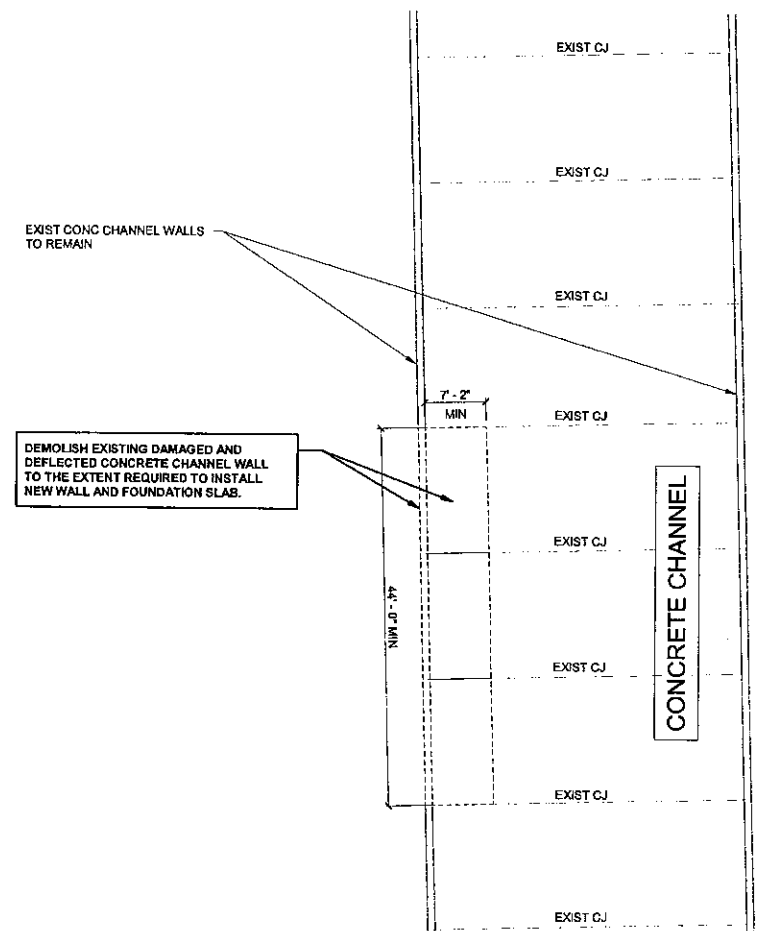


- FIELD VERIFICATION NOTES:**
1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF SHEET 2 GENERAL SECTION NOTE 6.
  2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. REF SHEET 2 GENERAL SECTION NOTE 6.

- FDN PLAN SHEET NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF EXIST STR DURING ALL PHASES OF CONSTR.
  2. BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FDNS ADJACENT TO THE EXIST WALL, PROVIDE ADEQUATE SUPPORT TO THE EXIST SUBBASE OF THE EXIST SLAB AND THE FDNS TO PREVENT UNDERMINING.
  3. SPECIFIED TOP OF CONC ELEVATIONS SHALL MATCH EXIST TOP OF CONC ELEVATIONS OF ADJACENT BLDG FLRS.



**2 FOUNDATION PLAN**  
3/32" = 1'-0"



**1 DEMO PLAN**  
3/32" = 1'-0"



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KINGS RIDGE PLANS	
KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS	
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY:	WALLACE DESIGN COLLECTIVE 123 N. Martin Luther King Jr. Blvd Tulsa, Oklahoma 74103
2311021.01	
REVISION	BY DATE
PLAN SCALE:	DRAWN
AS NOTED	DESIGNED
PROFILE SCALE:	SURVEY
N/A	PROJ MGR TW 10/15
HORIZONTAL:	LEAD MGR BAC 10/25
N/A	FIELD MGR JAM 10/25
VERTICAL:	RECOMMENDED
N/A	DESIGN MANAGER
FILE:	DATE 09/30/2025
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ATLAS PAGE NO: 488	SHEET 5 OF 18 SHEETS



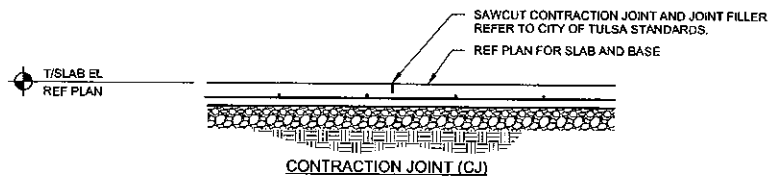
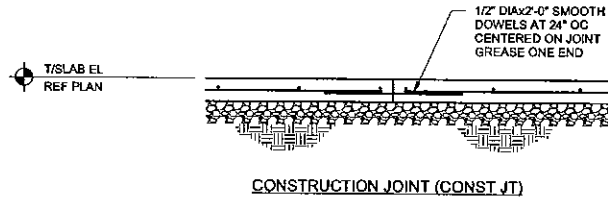
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CONCRETE REINFORCING LAP LENGTH SCHEDULE		
BAR SIZE	TOP BARS	OTHER
#3	23"	18"
#4	31"	24"
#5	38"	30"
#6	46"	35"
#7	67"	51"
#8	76"	59"
#9	88"	66"
#10	96"	74"

NOTES:  
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

### 5 CONCRETE REINFORCING LAP SCHEDULE

3/4" = 1'-0"



### 4 TYPICAL SLAB JOINT DETAILS

3/4" = 1'-0"

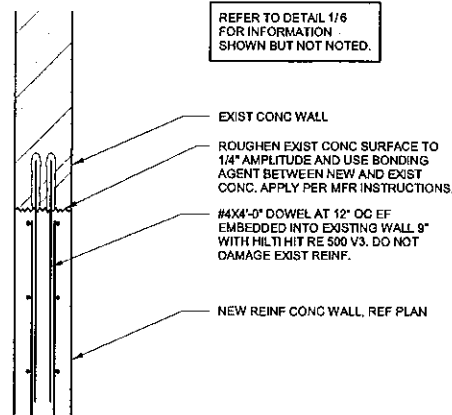
INSTALL WALL CONTROL JOINTS AT 12'-0" OC MAX. LOCATE TO ALIGN WITH EXISTING CONTROL JOINTS.

3/4" CHAMFER AT EXPOSED SIDE OF WALL.

### 3 TYPICAL WALL CONTROL JOINT

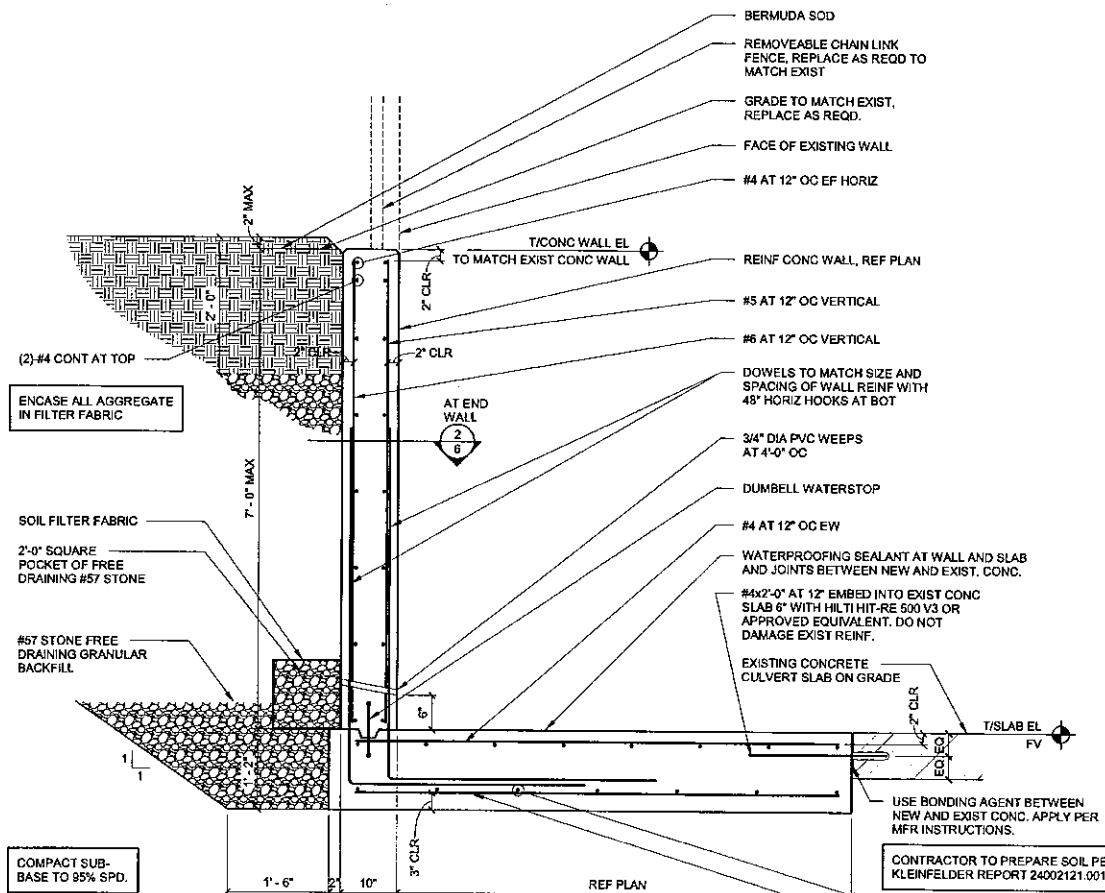
3/4" = 1'-0"

REFER TO CITY OF TULSA STANDARD DETAILS 102, 126, AND 784 AS REQUIRED.  
IF DAMAGE TO ADJACENT STREETS OCCURS, REFER TO CITY OF TULSA STANDARD DETAILS 725, 726, 727, 729, 730, AND 731 AS REQUIRED.



### 2 END WALL CONNECTION

3/4" = 1'-0"



### 1 WALL REPLACEMENT DETAIL

3/4" = 1'-0"

**FIELD VERIFICATION NOTES:**

1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM ORIGINAL DESIGN DRAWINGS OR A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF SHEET 2 GENERAL SECTION NOTE 6.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. REF SHEET 2 GENERAL SECTION NOTE 6.



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KINGS RIDGE DETAILS	
KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS	
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY:	WALLACE DESIGN COLLECTIVE 2211021.01 123 N. Martin Luther King Jr. Blvd. Tulsa, Oklahoma 74103
REVISION	BY DATE
AS NOTED	DESIGNED
AS NOTED	SURVEY
PROJ MGR	PROJ MGR
LEAD MGR	LEAD MGR
FIELD MGR	FIELD MGR
RECOMMENDED BY	RECOMMENDED BY
DESIGN MANAGER	DESIGN MANAGER
FILE:	DRAWING:
ATLAS PAGE NO: 458	DATE 09/30/2025
	SHEET 6 OF 16 SHEETS

CODE AND DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
INTERNATIONAL BUILDING CODE, 2018 EDITION
2. STRUCTURE RISK CATEGORY
RISK CATEGORY I
3. ROOF SNOW LOAD DATA
GROUND SNOW LOAD P\_g = 10 PSF
4. EARTHQUAKE DESIGN DATA
SEISMIC IMPORTANCE FACTOR I = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
0.2-SECOND PERIOD S\_s = 0.17
1.0-SECOND PERIOD S\_1 = 0.08
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
0.2-SECOND PERIOD S\_DS = 0.15
1.0-SECOND PERIOD S\_D1 = 0.11

GENERAL

- 1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS, BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF A.C.I., P.C.I., A.S.C., I.S.I., OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS, LOCATIONS, AND DEPTHS OF SLAB RECESSES WITH ARCHITECTURAL DRAWINGS, INTERIOR DRAWINGS, AND PRODUCT MANUFACTURERS.
8. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
9. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
10. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
12. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
13. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
14. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.

FOUNDATION

- 1. THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY KLEINFELDER, PROJECT NUMBER 20233614.001A, DATED 06 JANUARY 2023. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS, CONTINUOUS SPREAD FOOTINGS, TURNED DOWN SLAB EDGES, AND MAT FOUNDATIONS (ELEVATOR PITS) SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 5000 PSF.
4. EARTH-RETAINING FOUNDATIONS AND WALLS ARE DESIGNED FOR THE FOLLOWING NOMINAL SOIL CRITERIA:
ALLOWABLE SOIL BEARING PRESSURE 5000 PSF
EQUIVALENT LATERAL FLUID PRESSURE - ACTIVE CASE 38 PSF/FT
EQUIVALENT LATERAL FLUID PRESSURE - PASSIVE CASE 360 PSF/FT
COEFFICIENT OF SLIDING FRICTION 0.3
FINE-GRAINED MATERIAL (SILT/CLAY) SHALL NOT BE USED AS FOUNDATION WALL BACKFILL MATERIAL. SEE SPECIFICATIONS FOR FOUNDATION WALL BACKFILL REQUIREMENTS.
PROVIDE GEOTEXTILE FABRIC AGAINST UNDISTURBED SOIL SLOPE BEFORE BACKFILLING.
ALL FOUNDATION WALLS SHALL BE PROPERLY DRAINED.
5. CLEAR SUBGRADE BY STRIPPING ALL VEGETATION, TOPSOIL, ORGANIC SOILS, UNSTABLE FILL, LOOSE ROCK FRAGMENTS GREATER THAN 6 INCHES IN DIAMETER, DEMOLITION DEBRIS, AND OTHER DEBRIS. UNSUITABLE EXISTING FILL AND MATERIALS (AS DETERMINED BY A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY) SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
6. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH, AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL).

- 7. FOR EXCAVATIONS MADE DURING THE WET OR RAINY SEASON, THE CONTRACTOR IS RECOMMENDED TO USE A 2 INCH TO 3 INCH THICK, LEAN CONCRETE, MUD MAT TO PROTECT THE INTEGRITY OF THE BEARING MATERIAL.
8. THE TIME BETWEEN CONCRETE TRUCK LOADS DURING A CONCRETE PLACEMENT FOR SPREAD FOOTINGS, CONTINUOUS FOOTINGS, PILE CAPS, MATS, GRADE BEAMS, AND THE BEAMS SHALL NOT CAUSE UNPLANNED COLD JOINTS.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO ACI 301, ACI 318, AND CRSI STANDARDS.
2. CONCRETE SHALL BE THE FOLLOWING SPECIFIED PROPERTIES (MINIMUM EXPOSURE CLASS, MINIMUM 28-DAY COMPRESSIVE STRENGTH, AND MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO):
2.1. NORMALWEIGHT STRUCTURAL CONCRETE:
ELEMENT EXPOSURE CLASS STRENGTH W/C/M
WALLS F2 S0 W1 C1 4500 PSI 0.45
EXTERIOR GRADE-SUPPORTED SLABS F3 S0 W0 C2 5000 PSI 0.40
3. DO NOT PLACE PIPES, CONDUITS, OR DUCTS INSIDE AND RUNNING PARALLEL TO BEAMS WITHOUT PRIOR AUTHORIZATION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
4. PIPES, CONDUITS, OR DUCTS SHALL NOT EXCEED ONE-FIFTH OF THE SLAB OR WALL THICKNESS (INCLUDING CROSSINGS) UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL DESIGN PROFESSIONAL. PLACE ALL PIPES, CONDUITS, AND DUCTS IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE THE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC. CONDUIT IN COMPOSITE SLABS SHALL NOT EXCEED 3/4 INCH DIAMETER EMT AND SHALL NOT BE SPACED CLOSER THAN 12 INCHES.
5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
6. DEFECTIVE AREAS IN CONCRETE, INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. THE EXTENT OF THE DEFECTIVE AREAS WILL BE DETERMINED BY THE DESIGN PROFESSIONAL.
7. CONCRETE GRADE SUPPORTED SLABS SHALL NOT BE LOADED UNTIL A MINIMUM CONCRETE STRENGTH OF 1800 PSI IS OBTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH IS ATTAINED.
8. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND THE SPECIFICATIONS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM, CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 100 YARDS OR PORTION THEREOF FOR EACH MIX DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION. SEE CITY OF TULSA STANDARD 335 FOR TESTING FREQUENCY.
9. C.J. ON THE SLAB AND FOUNDATION PLAN INDICATES KEY-FORMED CONSTRUCTION JOINTS OR SAW-CUT CONTRACTION JOINS IN THE CONCRETE GRADE SUPPORTED SLAB. SAW-CUT CONTRACTION JOINTS SHALL BE INSTALLED WITHIN 12 HOURS OF SLAB PLACEMENT. CONTINUE REINFORCEMENT THROUGH JOINTS. CONSTRUCTION AND/OR CONTRACTION JOINTS SHALL BE SPACED NO FARTHER APART THAN 48 TIMES THE SLAB THICKNESS ON CENTER IN EACH DIRECTION, CREATING PANELS WITH AN ASPECT RATIO NOT GREATER THAN 1.5:1.
10. UNLESS NOTED OTHERWISE, ALL REINFORCING SHALL BE CONTACT LAP SPICED WITH A CLASS B SPlice IN ACCORDANCE WITH ACI 318. FOR BARS WITH MINIMUM COVER AND SPACING GREATER THAN 2d\_s AND 3d\_s RESPECTIVELY, THE MINIMUM SPlice LENGTH OF NOT LESS THAN 48d\_s SHALL BE USED (WHERE d\_s IS THE BAR DIAMETER). SPlice LENGTHS SHALL BE INCREASED BY A FACTOR OF 1.3 FOR TOP REINFORCEMENT. LAP WELDED WIRE FABRIC (WWF) ONE SPACE PLUS 2 INCHES ON ALL SIDES AT SPICES.
11. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A CHAMFER OR RADIUS OF 3/4 INCH UNLESS NOTED OTHERWISE.
12. CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES (UNLESS NOTED OTHERWISE OR REQUESTED BY THE OWNER OR ARCHITECTURAL DESIGN PROFESSIONAL):
INTERIOR EXPOSED SLABS: STEEL TROWEL FINISH
EXTERIOR SLABS: BROOM FINISH IN THE DIRECTION OF SLOPE
ALL OTHER CONCRETE: STEEL TROWEL FINISH
13. MAINTAIN CONCRETE AFTER PLACEMENT WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR THE HYDRATION OF CEMENT AND HARDENING OF CONCRETE (NOT LESS THAN SEVEN DAYS). CURING AND PROTECTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 308 - STANDARD PRACTICE FOR CURING CONCRETE (AMERICAN CONCRETE INSTITUTE). A COMBINATION OF CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS HAVE BEEN REMOVED. COMPOUNDS SHALL MEET THE REQUIREMENTS OF ASTM C1315 AND BE APPROVED BY THE ARCHITECTURAL DESIGN PROFESSIONAL FOR COMPATIBILITY WITH FLOOR FINISHES.

SPECIAL INSPECTION REQUIREMENTS (2018)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

- 1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
5. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

IBC 2018 REQUIRED SPECIAL INSPECTIONS table with columns for inspection type, frequency (continuous/periodic), and specific inspection items like inspect reinforcement, verify weldability, etc.

ABBREVIATIONS

- A.F.F. ABOVE FINISHED FLOOR
A.O.R. ARCHITECT OF RECORD
A.R. ANCHOR RODS
A.E.S.S. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH. ARCHITECTURAL
B.L. BLOCK LINTEL
B.O.D. BOTTOM OF DECK
B.O.S. BOTTOM OF STEEL
B.P. BASE PLATE
BAL. BALANCE
BLDG. BUILDING
BRG. BEARING
C.J. CONTRACTION JOINT
C.L. CENTER LINE
CFMF COLD FORMED METAL FRAMING
CLR. CLEAR
CMU CONCRETE MASONRY UNIT
COL. COLUMN
CONC. CONCRETE
CONST. CONSTRUCTION
CONT. CONTINUOUS
D.B.A. DEFORMED BAR ANCHOR
D.B.E. DECK BEARING ELEVATION
DIA. DIAMETER
DTL. DETAIL
DWG. DRAWING
E.F. EACH FACE
E.J. EXPANSION JOINT
E.O.D. EDGE OF DECK
E.O.R. ENGINEER OF RECORD
E.O.S. EDGE OF SLAB
E.W. EACH WAY
EA. EACH
EIFS EXTERIOR INSULATION AND FINISH SYSTEM
ELEC. ELECTRICAL
ELEV. ELEVATION
EQ. EQUAL
EXIST. EXISTING
F.F.E. FINISHED FLOOR ELEVATION
F.S. FAR SIDE
F.V. FIELD VERIFY
FDN. FOUNDATION
FT. FOOT/FEET
FTG. FOOTING
G.B. GRADE BEAM
G.C. GENERAL CONTRACTOR
GA. GAGE
GALV. GALVANIZED
H.S.A. HEADED STUD ANCHOR
HORIZ. HORIZONTAL
I.F. INSIDE FACE
IN. INCHES
INFO. INFORMATION
J.B.E. JOIST BEARING ELEVATION
JT. JOINT
K. UNIT OF 1,000 POUNDS (KIP)
KSI KIPS PER SQUARE INCH
LBS. POUNDS

ABBREVIATIONS

- LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LONG. LONGITUDINAL
LSH LONG SIDE HORIZONTAL
LSL LONG SLOT
LSV LONG SIDE VERTICAL
MAX. MAXIMUM
MECH. MECHANICAL
MEP MECHANICAL/ELECTRICAL/PLUMBING
MFR. MANUFACTURER
MIN. MINIMUM
MSC. MISCELLANEOUS
MTL. METAL
N.I.C. NOT IN CONTRACT
N.S. NEAR SIDE
N.T.S. NOT TO SCALE
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
O.F. OPPOSITE FACE
O.H. OPPOSITE HAND
OPP. OPPOSITE
P.A.F. POWDER/POWDER ACTUATED FASTENER
P.C.F. POUNDS PER CUBIC FOOT
P.E.M.B. PRE-ENGINEERED METAL BUILDING
PLATE
PLF POUNDS PER LINEAR FOOT
PLUMB. PLUMBING
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
R. RADIUS
R.O. ROUGH OPENING
RE. REFER
REINF. REINFORCING
REQD. REQUIRED
RTU ROOF TOP UNIT
S.D.S. SELF-DRILLING SCREWS
S.S. STAINLESS STEEL
SCHD. SCHEDULE
SIM. SIMILAR
SP. SPACE/SPACING
SPEC. SPECIFICATIONS
SSL SHORT SLOT
STD. STANDARD
STL. STEEL
T&B TOP AND BOTTOM
T.D. TOP OF
T.O.C. TOP OF CONCRETE
T.O.M. TOP OF MASONRY
T.O.P. TOP OF PIER
T.O.S. TOP OF STEEL
T.O.W. TOP OF WALL
TRANS. TRANSVERSE
TYP. TYPICAL
UNO. UNLESS NOTED OTHERWISE
VERT. VERTICAL
W.P. WORK POINT
W.S. WATERSTOP
W.W.R. WELDED WIRE REINFORCEMENT
WT. WEIGHT



wallace design collective logo and contact information: wallace design collective, pc, structural & civil engineering survey, 121 north marion street, tulsa, oklahoma 74103, phone 918.584.5858, fax 918.584.5859, ok.c.a. #1460 06/30/27

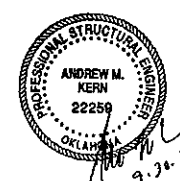
COAL CREEK GENERAL NOTES table with columns for revision, by, date, plan scale, and drawing details.

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**GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MOVERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-5543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-3404, 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 DOT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER DOT 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 REMOVED 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 RYAN MCKASKLE AT 918-596-9508 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET, PER 335.
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 FLIGHT 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 II 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 RAMP, 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 28, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.



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<b>COAL CREEK GENERAL NOTES</b>			
<b>KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS</b>			
<b>CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT</b>			
PLANS AND ESTIMATES PREPARED BY:		WALLACE DESIGN COLLECTIVE	
		2311021.01 123 N. Marsh Luther King Jr. Blvd. Tulsa, Oklahoma 74103	
REVISION	BY	DATE	APPROVED:
AS NOTED			<i>tgp</i>
DESIGNED			
SURVEY			
PROJ MGR	<i>PNH</i>	<i>10/25</i>	
LEAD MGR	<i>BOC</i>	<i>10/25</i>	
FIELD MGR	<i>BOC</i>	<i>10/25</i>	
RECOMMENDED			
DESIGN MANAGER	<i>Andrew M. Kern</i>		<i>Andrew M. Kern</i>
FILE:	DRAWING:	DATE	CITY ENGINEER
		<i>09/30/2025</i>	
ATLAS PAGE NO: 488			SHEET 8 OF 18 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: ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID. S-8: NOT USED
- E-2: ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID. S-9: 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. S-10: NOT USED
- E-4: UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED. S-11: NOT USED
- E-5: THIS QUANTITY INCLUDES AN ADDITIONAL 10% ABOVE PLAN QUANTITY FOR UNDERCUTTING OF UNSUITABLE SUBGRADE MATERIAL OR ADDITIONAL PATCHING AS DIRECTED BY THE ENGINEER. S-12: 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. S-13: NOT USED
- 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. S-14: NOT USED
- E-8: PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION. S-15: NOT USED
- E-9: NOT USED S-16: 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/TOP-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE LIKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSSED 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. S-17: NOT USED
- 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. S-18: NOT USED

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: NOT USED
- S-4: NOT USED
- S-5: NOT USED
- S-6: NOT USED
- S-7: NOT USED

REMOVAL / ADJUSTMENT (R1 - R6)

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

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: NOT USED
- G-6: NOT USED
- 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: NOT USED
- G-9: NOT USED
- G-10: NOT USED

DRAINAGE (D1 - D15)

- D-1: NOT USED
- D-2: NOT USED
- D-3: NOT USED
- D-4: NOT USED
- D-5: NOT USED
- D-6: NOT USED
- D-7: NOT USED
- D-8: NOT USED

- 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 (G1) (W)AMH

G: NUMBER OF GRATES.

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

WAMH: 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 IMH-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: WHERE CORRUGATED POLYPROPYLENE PIPE CONNECTS TO REINFORCED CONCRETE STRUCTURES, CONTRACTOR SHALL ENSURE CONNECTIONS ARE WATER-TIGHT AND FULLY SEALED AGAINST SOIL INFILTRATION.

- D-15: WHERE QUICKSET FLOWABLE FILL IS USED TO BACKFILL AROUND CORRUGATED POLYPROPYLENE PIPE, THE CONTRACTOR SHALL UTILIZE AN ANCHORING SYSTEM APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT APPROVED ANCHORING SYSTEM INCLUDED IN PRICE BID FOR CORRUGATED POLYPROPYLENE PIPE.

TRAFFIC (T1 - T7)

- T-1: NOT USED
- T-2: NOT USED
- 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: NOT USED
- T-6: NOT USED
- T-7: NOT USED

COAL CREEK CULVERT WALL REPLACEMENT						
SCHEDULE OF PAY QUANTITIES - BASE BID						
PAY ITEM NUMBER	SPEC NUMBER	REFERENCE	UNITS	PAY ITEM DESCRIPTION	NOTES	BASE BID QUANTITY
1	201(A)		ACRE	CLEARING AND GRUBBING	E-1, 2	0.15
2	202(A)		CY	UNCLASSIFIED EXCAVATION	E-3, 4, R-1	605
3	205(A)		CY	TYPE A SALVAGED TOPSOIL		210
4	221(C)		LF	TEMPORARY SILT FENCE	E-7, E-7, E-7	235
5	230(A)		SY	SOLID SLAB SODDING (LIKE KIND)	E-10, 11	833
6	303(A)		CY	AGGREGATE BASE TYPE A	E-5, S-1, 2	8
7	501(E)		CY	SELECT BACKFILL	G-1	231
8	641		EA	MOBILIZATION	G-2	1
9	642		EA	CONSTRUCTION STAKING LEVEL II	G-3, 4	1
10	804(A)		CY	STRUCTURAL CONCRETE		55
11	804(B)		LB	REINFORCING STEEL		7000
12	SPECIAL		EA	PROJECT SIGN (CITY OF TULSA)	T-7	1
13	SPECIAL		LF	CRACK SEALING	G-1	90
14	SPECIAL		ALLOW	OWNER ALLOWANCE		1
15	(SP) COT 643		LSUM	CONTRACTOR'S QUALITY CONTROL		1
16		2/3	SF	DEMOLISH AND REMOVAL OF CHANNEL SLAB	R-1, R-6	650
17		2/3	SF	DEMOLISH AND REMOVAL OF CHANNEL WALL	R-1, R-6	780
18		COAL CREEK GENERAL NOTE 9	SF	SHEET PILING		780
19		1/3 AND 2/4	SF	PLACEMENT OF CHANNEL CONCRETE SLAB ON...		650
20		2/4	EA	POST INSTALLED ANCHORS		100
21		1/3 AND 2/4	SF	PLACEMENT OF CONCRETE CHANNEL WALL		780
22	331		SF	FILTER FABRIC		520
23		COAL CREEK GENERAL NOTE 9	ECY	BACKFILL OF CONCRETE WALL		115



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COAL CREEK QUANTITIES AND PAY ITEM NOTES

KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS

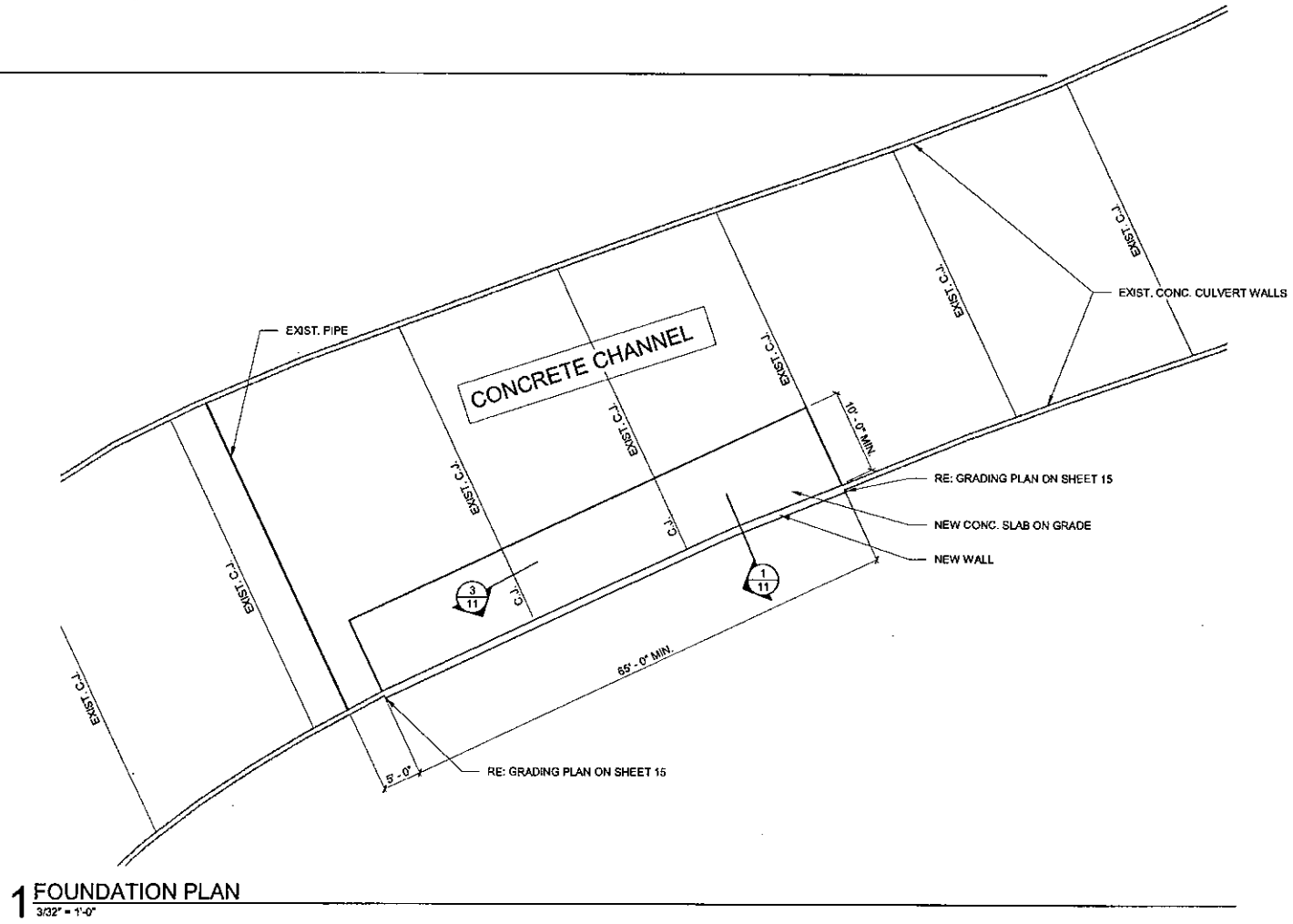
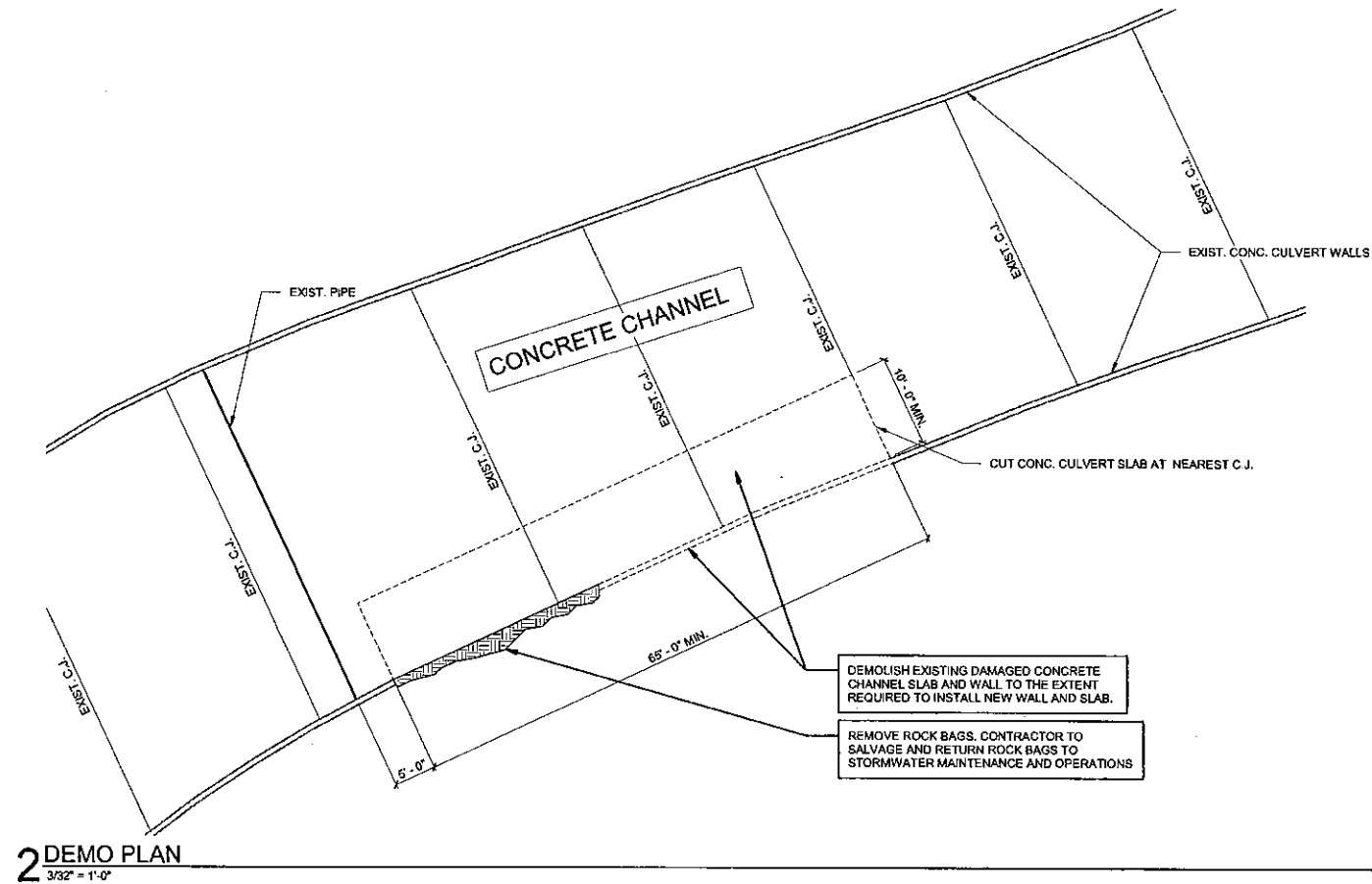
CITY OF TULSA, OKLAHOMA  
WATER AND SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: WALLACE DESIGN COLLECTIVE  
2311021.01  
123 N. Martin Luther King Jr. Blvd.  
Tulsa, Oklahoma 74103

REVISION	BY	DATE	PLAN SCALE:	DRAWN	DATE	APPROVED:
			AS NOTED	DESIGNED		 CITY ENGINEER
			PROFILE SCALE: N/A	SURVEY		
			HORIZONTAL: N/A	PROJ MGR	PDH 10/25	
			VERTICAL: N/A	LEAD MGR	BOC 10/25	
				FIELD MGR	PDH 10/25	
				RECOMMENDED DESIGN MANAGER		
			FILE:	DRAWING:	DATE	06/30/2025
			ATLAS PAGE NO: 468			SHEET 9 OF 16 SHEETS

**FIELD VERIFICATION NOTES:**

1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM ORIGINAL DESIGN DRAWINGS OR A PRELIMINARY FIELD SURVEY WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF SHEET 7 GENERAL SECTION NOTE 6.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. REF SHEET 7 GENERAL SECTION NOTE 6.



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**COAL CREEK PLANS**

**KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS**

**CITY OF TULSA, OKLAHOMA**  
WATER AND SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: WALLACE DESIGN COLLECTIVE  
2311021.01 123 N. Martin Luther King Jr. Blvd. Tulsa, Oklahoma 74103

REVISION	BY	DATE

PLAN SCALE:	DRAWN	DESIGNED	APPROVED:
AS NOTED			tgp
SURVEY			
PROFILE SCALE:			T. J. Rose
N/A	PROJ MGR	10/25	
HORIZONTAL:	LEAD MGR	10/25	
N/A	FIELD MGR	10/25	
VERTICAL:	RECOMMENDED		
N/A	DESIGN MANAGER		
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ATLAS PAGE NO: 468			SHEET 10 OF 16 SHEETS

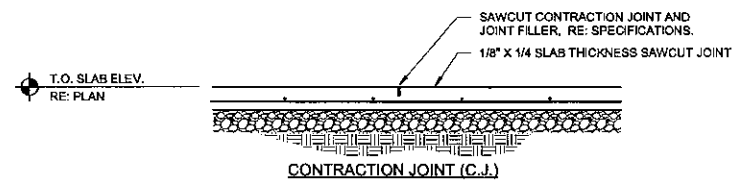


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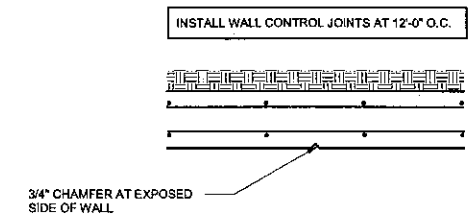
CONCRETE REINFORCING LAP LENGTH SCHEDULE										
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f <sub>c</sub> )									
	3000psi		4000psi		4500psi		5000psi		7000psi	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"	22"	17"	19"	14"
#4	38"	29"	33"	25"	31"	24"	29"	23"	26"	19"
#5	47"	36"	41"	31"	38"	30"	36"	28"	31"	24"
#6	56"	43"	49"	37"	46"	35"	44"	34"	37"	28"
#7	61"	48"	54"	41"	51"	40"	49"	38"	41"	31"
#8	67"	52"	59"	45"	56"	44"	53"	42"	45"	35"
#9	73"	57"	64"	50"	61"	50"	59"	48"	51"	40"
#10	80"	63"	71"	57"	68"	56"	65"	54"	57"	46"

**4 CONCRETE REINFORCING LAP SCHEDULE**  
3/4" = 1'-0"

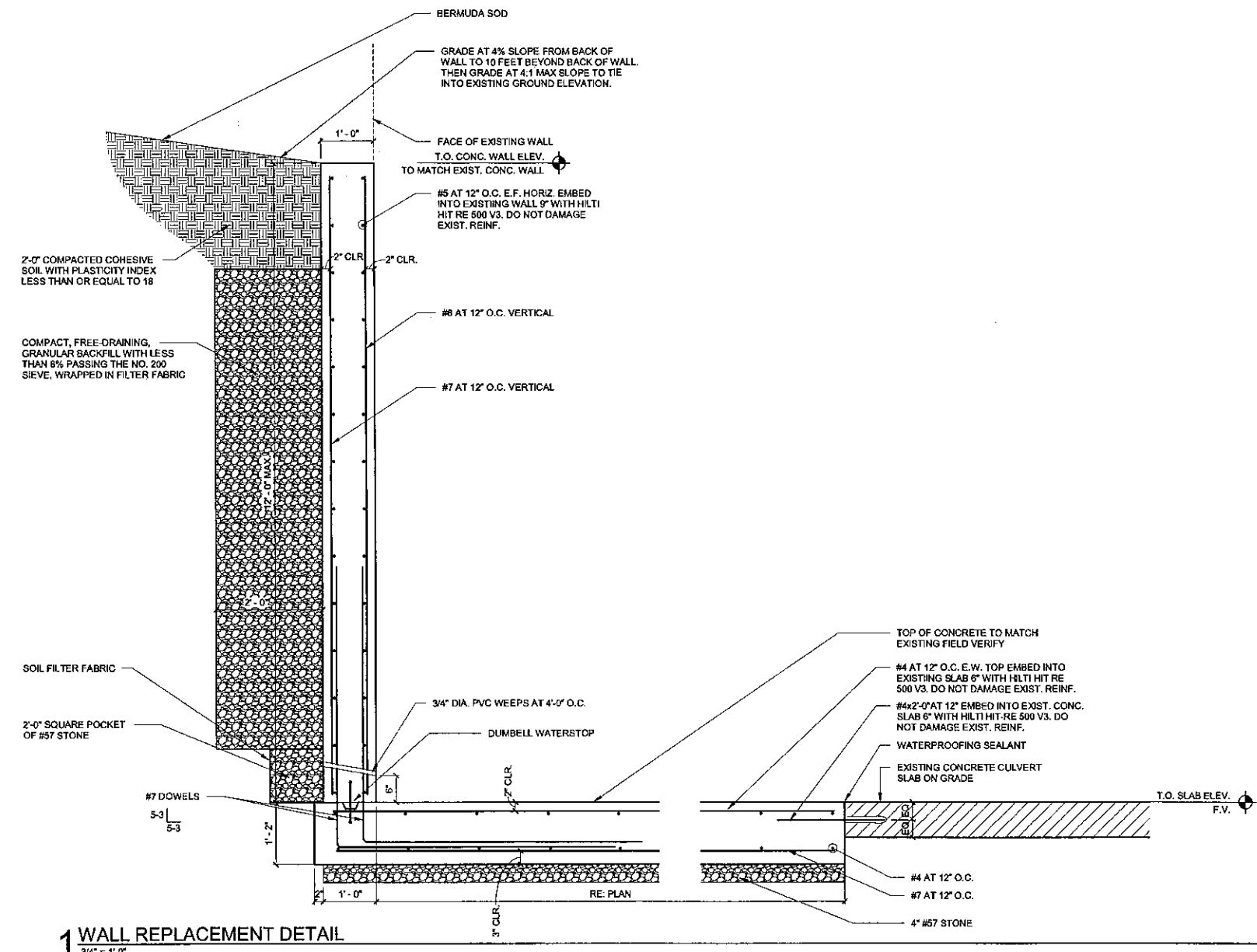
NOTES:  
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.



**3 TYPICAL SLAB JOINT DETAILS**  
3/4" = 1'-0"



**2 TYPICAL WALL CONTROL JOINT**  
3/4" = 1'-0"



**1 WALL REPLACEMENT DETAIL**  
3/4" = 1'-0"



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COAL CREEK DETAILS	
KINGS RIDGE CHANNEL AND COAL CREEK WALL REPLACEMENTS	
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT	
PLANS AND ESTIMATES PREPARED BY: WALLACE DESIGN COLLECTIVE 2311021.01	
REVISION	BY DATE
PLAN SCALE:	DRAWN AS NOTED
PROFILE SCALE: N/A	DESIGNED
HORIZONTAL: N/A	SURVEY
VERTICAL: N/A	PROJ MGR: PPH 10/25
	LEAD MGR: BDC 10/25
	FIELD MGR: BDC 10/25
	RECOMMENDED BY: [Signature]
	DESIGN MANAGER
F.I.E.	DRAWING
ATLAS PAGE NO: 468	DATE: 09/30/2025
	APPROVED: [Signature]
	CITY ENGINEER