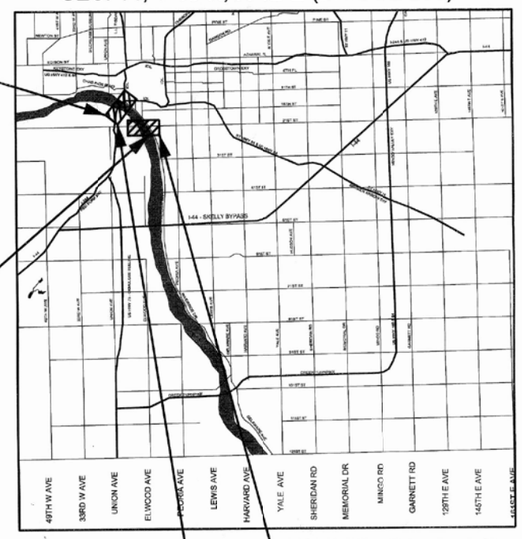
CONSTRUCTION PLANS FOR ARTERIAL BRIDGE REHABILITATION FOR BRIDGE 245 - 11th STREET BRIDGE 258 - 21st STREET

PROJECT NO. 2436B0005Z-245/258

ACCOUNT NO. 2436B0005Z.Bridge.BridgMR.4292-42923200-541104

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PROJECT SITE
SEC. 11, T-19-N, R-12-E (BRIDGE 245)
SEC. 14, T-19-N, R-12-E (BRIDGE 258)





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SYMBOL LEGEND

- FENCE
- WATER LINE
- OVERHEAD ELECTRIC LINE
- GAS LINE
- SANITARY SEWER
- PROP. CENTERLINE ROADWAY
- ROW
- PROPERTY LINE
- LOT LINE
- STORM DRAIN
- FIBER OPTIC
- UNDERGROUND ELECTRIC
- RJ RESTRAINED JOINT
- SANITARY MANHOLE
- FIBER OPTIC MANHOLE
- STORM MANHOLE
- TELE MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- POWER POLE
- GUY ANCHOR
- TELE RISER
- TRANSFORMER
- GAS METER
- LIGHT POLE
- GRATED INLET
- CURB INLET
- GAS VALVE
- TEMPORARY BENCH MARK
- SIGN
- ELECTRIC BOX
- TREE
- EVERGREEN
- SHRUB

CALL OKIE FOR A LIST OF CONTACTS IN THE AREA.

UTILITY COORDINATION	
UTILITY/DEPARTMENT	NUMBER
OKLAHOMA ONE-CALL SYSTEM, INC.	811
CITY OF TULSA - UTILITY COORDINATION (TONY GLYNN)	918-596-9245
OKLAHOMA NATURAL GAS (JONATHON MEADOWS)	918-831-8215
AT&T (AL NICHOLS)	918-596-4237
PSO (ADAM FIELDS)	918-250-6257
COX COMMUNICATIONS (BRANDON WADE)	918-286-4716
METROLINK (VALERIE COURCHESNE)	918-982-6882

THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS AND IS ENTIRELY LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF TULSA. CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINANCE #24616, JUNE 2021.

ODOT STANDARDS

TESCA-0	TCS6-1-02	TCS13-1-00
TCS1-1-01	TCS7-1-02	TCS14-1-00
TCS2-1-00	TCS8-1-00	TCS19-1-01
TCS3-1-01	TCS9-1-01	TCS20-1-00
TCS4-1-01	TCS11-1-01	TCS24-1-02
TCS5-1-00	TCS12-1-00	

CITY OF TULSA STANDARDS

102 PROJECT SIGN
126 STANDARD SILT FENCE & CONSTRUCTION ENTRANCE
785 STANDARD DIKES AND SWALES

City Engineer — Date: 10/2/2026

ADVERTISE DATE:

LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 22868 — OKLAHOMA

Bradley R. Thompson, P.E.
responsible for pages: 1-4, 8-29, 33-95
OK P.E. NO. 22868
Date: 2/14/2026

LICENSED PROFESSIONAL ENGINEER — MAC MILBURN — 33772 — OKLAHOMA

Mac Milburn, P.E.
responsible for pages: 5-7, 30-32, 96-99
OK P.E. NO. 33772
Date: 6-26-26

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CERT. OF AUTH. #4193
EXPIRES 6-30-2026

PROJ. NO. 2436B0005Z-245/258 - CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION FOR BRIDGE 245 (11th STREET) AND BRIDGE 258 (21st STREET)

$$USER$$
WORKSPACE:$$WORKSPACE$$
$$FILESS

$$DATES$$ $$TIMES$$

COMMON GENERAL NOTES

SPECIFICATIONS:
ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINANCE #24616, JUNE 2021, AND THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS, STANDARD DETAILS, STANDARD DRAWINGS AND SPECIAL PROVISIONS.

VERIFICATION OF EXISTING CONDITIONS:
ALL DIMENSIONS OF THE EXISTING COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA NECESSARY FOR CONSTRUCTION SEQUENCING AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.

BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITIONS UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE OR ATTACHMENTS. ANY DAMAGE TO THE EXISTING BRIDGE STRUCTURE OR ROADWAY DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR SHALL BE AWARE OF EXISTING CONDITIONS AND POTENTIAL HAZARDS DURING CONSTRUCTION. CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN THE INTEGRITY OF ANY EXISTING UTILITIES AND STRUCTURES. ANY DAMAGE TO THESE ITEMS DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE ENGINEER'S SATISFACTION.

THE ORIGINAL BRIDGE CONSTRUCTION PLANS FOR BRIDGES 245 & 258 ARE AVAILABLE AND CAN BE OBTAINED FROM:

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT
175 EAST 2ND ST, 13TH FLOOR
TULSA, OKLAHOMA 74103

REMOVED MATERIAL:
ALL MATERIAL REMOVED DURING THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS OF TULSA.

STORAGE OF MATERIALS:
THE CONTRACTOR SHALL NOT STORE MATERIALS WITHIN THE 100 YEAR WATER SURFACE ELEVATION FLOODPLAIN.

TEMPORARY UTILITY SUPPORT:
THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT TO ALL EXISTING UTILITIES, WHICH ARE ATTACHED TO THE SUPERSTRUCTURE & DECK OF BOTH BRIDGES, WHEN IN CONFLICT WITH THE PROPOSED CONCRETE REPAIRS. UTILITY LOCATIONS MAY NOT BE SHOWN ACCURATELY IN THE PLANS. THE CONTRACTOR SHALL ALSO RECONNECT THE EXISTING UTILITIES ONCE THE REPAIRS ARE COMPLETED AS SHOWN ON THE PLANS.

ALL COSTS OF TEMPORARY SUPPORT, CONNECTION, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

BRIDGE PAY ITEM NOTES

(B1) PNEUMATICALLY PLACED MORTAR:
THE EXISTING CONCRETE BEAMS, DIAPHRAGMS, ABUTMENTS, AND PIER CAPS & COLUMNS CONTAIN SPALLS WITH EXPOSED REINFORCING AND SHALL BE REPAIRED WITH PNEUMATICALLY PLACED MORTAR IN A MANNER APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH SECTION 521 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE REMOVAL OF LOOSE CONCRETE SHALL BE DONE USING HAND TOOLS ONLY, NO POWER TOOLS WILL BE ALLOWED. POWER TOOLS WILL BE ALLOWED ONLY IF HAND TOOLS PROVE TO BE INCAPABLE OF REMOVING ALL UNSOUND CONCRETE AND IF THEIR USE CAUSES DAMAGE TO OTHERWISE SOUND MATERIAL, IT WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. ANY DETERIORATED REINFORCING STEEL WITH A SECTION LOSS GREATER THAN 25%, AS DETERMINED BY THE CITY OF TULSA INSPECTOR, SHALL BE REPORTED TO THE ENGINEER FOR REMEDIAL ACTION. PRIOR TO MORTAR APPLICATION, BLAST CLEAN THE CONCRETE SURFACE AND REINFORCING STEEL FREE OF DEBRIS AND CORROSION. APPLY PNEUMATICALLY PLACED MORTAR TO REPLACE DETERIORATED CONCRETE. BUILD UP MORTAR TO MATCH THE ORIGINAL LINES AND GRADES OF THE MEMBER BEING REPAIRED.

THE CONTRACTOR MAY PROPOSE AND USE AS AN ALTERNATE ONE OF THE FOLLOWING REPAIR METHODS:

1. CAST-IN-PLACE CONCRETE
2. PRE-PLACED AGGREGATE CONCRETE
3. FORMED AND PUMPED CONCRETE AND MORTAR
4. TROWELING AND DRY-PACKING OF REPAIR MORTAR

REPAIRS SHOWN IN THE PLANS ARE INTENDED TO DESCRIBE APPROXIMATE REPAIR AREAS. REPAIRS ARE NOT LIMITED TO THE DESIGNATED AREAS AS SHOWN. THE SPECIFIC REPAIR LOCATION, CLASSIFICATION AND EXTENT OF REPAIRS SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER. THE REPAIRS SHALL ONLY BE MADE IN THE AREAS SELECTED BY THE ENGINEER. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL REPAIRS PERFORMED.

IF THE CONTRACTOR ELECTS TO USE A METHOD OTHER THAN PNEUMATICALLY PLACED MORTAR, THEY SHALL SUBMIT TO THE ENGINEER, FOR HIS APPROVAL, A PROPOSED WORK PLAN. THE WORK PLAN SHOULD INCLUDE SURFACE PREPARATION METHODS, PATCHING MATERIAL, BONDING AGENTS, MATERIAL PLACING METHODS, COMPATIBILITY WITH CORROSION INHIBITORS AND FINISHING METHODS. THE CONTRACTOR SHALL REPAIR A TEST AREA TO VERIFY THE EFFECTIVENESS OF THEIR PROPOSED REPAIR METHODS PRIOR TO COMMENCEMENT OF THE WORK ON THE ENTIRE STRUCTURE. FAULTY REPAIRS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF TULSA. THE COST FOR ALL PATCHING METHODS INCLUDING INCIDENTALS WILL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "PNEUMATICALLY PLACED MORTAR".

(B2) CLASS A CONCRETE:
ITEM "CLASS A CONCRETE" SHALL CONSIST OF REPAIRING PIER CAPS AND COLUMNS THAT HAVE EXHIBITED ADVANCED DETERIORATION. ALL CONCRETE SHALL BE PLACED IN THE DRY. ALL EXPOSED EDGES SHALL HAVE A 1½" CHAMFER UNLESS NOTED OR SHOWN ON PLANS. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER. ALL CONCRETE SHALL BE AIR-ENTRAINED.

ALL CONCRETE SHALL BE CLASS A CONCRETE, F'C = 3,000 P.S.I. MINIMUM STRENGTH AT 28 DAYS.

WHEN VIBRATING CONCRETE CONTAINING EPOXY COATED REINFORCING STEEL, THE VIBRATOR SHALL BE EQUIPPED WITH A PLASTIC TIP DESIGNED TO PREVENT DAMAGE TO THE EPOXY COATING.

(B3) REPAIR OF CRACKS:
THE EXISTING CONCRETE BEAMS, DIAPHRAGMS, ABUTMENTS, AND PIER CAPS & COLUMNS CONTAIN CRACKS THAT SHALL BE REPAIRED. THE CRACKS SHALL BE REPAIRED BY CLEANING AND INJECTING WITH EPOXY. THE CRACK REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. THE ACTUAL LOCATION AND EXTENTS OF THE CRACK REPAIRS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PAYMENT WILL ONLY BE MADE FOR THE ACTUAL CRACK REPAIRS PERFORMED.

ALL COST TO COMPLETE THE CRACK REPAIRS AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "PREPARATION OF CRACKS, ABOVE WATER" AND THE PRICE BID PER GALLON OF "EPOXY RESIN, ABOVE WATER".

(B4) CLSM BACKFILL:
ITEM "CLSM BACKFILL" SHALL CONSIST OF REPAIRING THE EROSION UNDER THE WEST ABUTMENT OF BRIDGE 245 IN ACCORDANCE WITH SECTIONS 501 & 701 OF THE STANDARD SPECIFICATIONS.

ALL COSTS ASSOCIATED WITH THE USE CLSM BACKFILL INCLUDING MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER CUBIC YARD OF "CLSM BACKFILL".

(B5) (PL) REPAIR BRIDGE ITEMS (SY):
FOR SEVERE DETERIORATION OF UNSOUND CONCRETE IN THE BEAMS, DIAPHRAGMS, ABUTMENTS, AND PIER CAPS & COLUMNS OF THE EXISTING BRIDGES SHALL BE REPAIRED AS DESCRIBED HERE. PRIOR TO REPAIRING AN AREA, ENSURE THAT ALL UNSOUND CONCRETE HAS BEEN REMOVED FROM THE AREA AND THE NEWLY EXPOSED SURFACE HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 521.04.C OF THE STANDARD SPECIFICATIONS. ANY DETERIORATED REINFORCING STEEL WITH A SECTION LOSS GREATER THAN 25%, AS DETERMINED BY THE CITY OF TULSA INSPECTOR, SHALL BE REPORTED TO THE ENGINEER FOR REMEDIAL ACTION. APPLY CORROSION INHIBITOR TO EXPOSED REINFORCING AND REPAIRED CONCRETE SURFACES IN ACCORDANCE WITH ODOT SPECIAL PROVISIONS 535-1.

THE REMOVED CONCRETE SHALL BE REPLACED WITH ONE OF THE FOLLOWING MATERIALS AS SPECIFIED IN SECTION 701 OF THE STANDARD SPECIFICATIONS:

1. HIGH DENSITY CONCRETE (HDC)
2. LATEX MODIFIED CONCRETE (LMC)
3. VERY EARLY STRENGTH TYPE I CONCRETE (VES I)
4. VERY EARLY STRENGTH TYPE III CONCRETE (VES III)
5. RAPID SETTING LATEX MODIFIED CONCRETE (RSLMC)

THE CONCRETE TEMPERATURE SHALL NOT EXCEED 85°F COLD WEATHER PRACTICES SHALL BE IMPLEMENTED UNDER ANY OF THE FOLLOWING CONDITIONS:

THE AIR TEMPERATURE WAS LESS THAN 55°F WITHIN 24 HOURS BEFORE PLACEMENT OF CONCRETE, OR THE SUBSTRATE TEMPERATURE IS LESS THAN 55°F DURING PLACEMENT OF CONCRETE, OR THE AIR TEMPERATURE WILL BE LESS THAN 55°F WITHIN 6 HOURS AFTER PLACEMENT OF CONCRETE.

COLD WEATHER PRACTICES SHALL BE AS FOLLOWS:

MAINTAIN A CONCRETE MIX TEMPERATURE OF 75°F MIN. DURING PLACEMENT, AND ENSURE THE AIR TEMPERATURE IS RISING DURING PLACEMENT, AND COMPLETE PLACEMENT DURING THE WARMEST PART OF THE DAY.

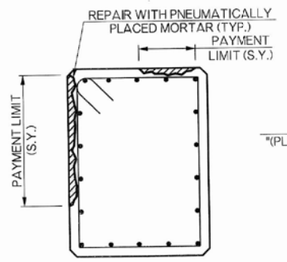
AIR TEMPERATURES SHALL BE GREATER THAN 45°F WHEN PLACING EARLY STRENGTH CONCRETE.

ALTERNATIVELY, THE REMOVED CONCRETE MAY BE REPLACED WITH ONE OF THE FOLLOWING COMMERCIALLY AVAILABLE SHOTCRETE PRODUCTS, OR AN APPROVED EQUAL, USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS APPROVED BY THE ENGINEER:

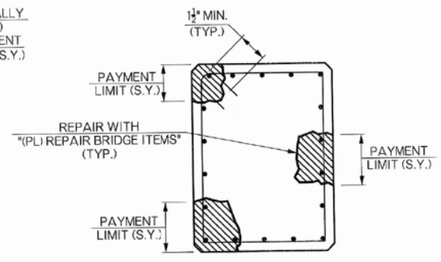
6. QUIKRETE SHOTCRETE MS WITH POLYPROPYLENE FIBERS
7. SIKACEM 103F
8. SIKACEM 133
9. SIKACRETE 211 SCC PLUS
10. BASF MASTEREMACO S 210SP
11. BASF MASTEREMACO S 211SP
12. PROSPEC SHOTCRETE 300V
13. EUCOSHOT F

THE NEW CONCRETE SHALL BE PLACED TO THE ORIGINAL NEAT LINES OF THE STRUCTURAL COMPONENT UNDER REPAIR AND FINISHED TO PROVIDE A SURFACE TEXTURE MATCHING THAT OF THE ADJACENT EXISTING CONCRETE.

ALL COSTS TO COMPLETE THE REPAIRS INCLUDING ALL COSTS OF REMOVALS, CLEANING, SURFACE PREPARATION, NEW CONCRETE, PROPORTIONING, MIXING, FORMWORK, PLACING CONCRETE, FINISHING CONCRETE, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD OF "(PL) REPAIR BRIDGE ITEMS".



PNEUMATICALLY PLACED MORTAR



(PL) REPAIR BRIDGE ITEMS

CONCRETE REPAIR

(B6) (SP) CARBON FIBER-REINFORCED POLYMER:
ITEM "(SP) CARBON FIBER-REINFORCED POLYMER" SHALL BE APPLIED TO THE CONCRETE BEAMS, DIAPHRAGMS, AND PIER CAPS & COLUMNS. PAYMENT FOR CARBON FIBER-REINFORCED POLYMER WILL BE BASED ON THE SURFACE AREA CONFINED, AS INDICATED ON THE PLANS. ADDITIONAL LAYERS OF CARBON FIBER-REINFORCED POLYMER AS SPECIFIED IN THE PLANS SHALL BE CONSIDERED SUBSIDIARY TO THIS PAY ITEM.

ALL WORK SPECIFIED HEREIN SHALL MEET THE REQUIREMENTS OF ODOT SPECIAL PROVISION 524-3. THE EQUIPMENT AND METHODS OF SURFACE PREPARATION, INSTALLATION, AND APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRODUCT PROFILE AND INSTRUCTION GUIDE FOR APPLICATION TO CONCRETE. PRECAUTIONARY MEASURES SHALL BE IN ACCORDANCE WITH MATERIAL SAFETY DATA SHEETS AS PROVIDED BY THE MANUFACTURER.

ALL COSTS OF CARBON FIBER-REINFORCED POLYMER INCLUDING ALL THREE (3) LAYERS OF MATERIAL, EPOXY, PROTECTIVE TOP COAT, INORGANIC ZINC PRIMER, CORROSION INHIBITOR, LABOR, EQUIPMENT, AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "(SP) CARBON FIBER-REINFORCED POLYMER."

(B7) ELASTOMERIC COATING:
THE ELASTOMERIC COATING SHALL BE A LIQUID APPLIED URETHANE COATING SUCH AS CIM 1000, OR AN APPROVED EQUAL, AS MANUFACTURED BY CIM INDUSTRIES, INC.. PRODUCT INFORMATION FOR CIM 1000 CAN BE OBTAINED FROM LASTER CASTOR CORP. OF TULSA, OKLAHOMA, PHONE NUMBER 918-234-7777.

THE ELASTOMERIC COATING SHALL BE APPLIED TO LOCATIONS DESCRIBED BELOW:
BRIDGE 245
1. END DIAPHRAGMS, AS SHOWN ON SHEET NOS. 25-28.
2. ABUTMENT CAPS & BACKWALLS, AS SHOWN ON SHEET NO. 24. AFTER ANTI-LOITERING BLOCKS ARE INSTALLED.
3. PIER CAPS, AS SHOWN ON SHEET NO. 24.

BRIDGE 258
1. BEAM ENDS AND LINK BLOCKS, AS SHOWN ON SHEET NOS. 91-93.
2. ABUTMENT CAPS & BACKWALLS, AS SHOWN ON SHEET NO. 90. AFTER ANTI-LOITERING BLOCKS ARE INSTALLED.
3. PIER CAPS, AS SHOWN ON SHEET NO. 90.

IN ADDITION TO APPLYING THE COATING TO THE CONCRETE SUBSTRUCTURE UNITS AS SHOWN IN THE PLANS, THE COATING SHALL RETURN UP THE VERTICAL SURFACES OF ALL NEW AND EXISTING BEARING PADS AND ANCHOR PLATES TO PROVIDE A WATERTIGHT SEAL WITH THE CONCRETE PEDESTALS.

THE EQUIPMENT AND METHODS OF APPLYING THE URETHANE COATING SHALL BE IN ACCORDANCE WITH THE PRODUCT COATING PROFILE AND INSTRUCTION GUIDES FOR APPLICATION TO CONCRETE. PRECAUTIONARY MEASURES SHALL BE IN ACCORDANCE WITH THE MATERIAL SAFETY DATA SHEETS AS PROVIDED BY THE MANUFACTURER.

THE COATING SHALL BE 60 MILS DRY THICKNESS AND 68 MILS WET THICKNESS. SURFACE PREPARATIONS AND PRODUCT MIXING SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS AND ALL NEW CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,000 P.S.I. AT THE TIME OF APPLICATION. PRIMER SHALL BE APPLIED TO THE CONCRETE SURFACES PRIOR TO APPLYING THE COATING. ALL CONCRETE WORK SHALL BE COMPLETED PRIOR TO THE APPLICATION OF THE ELASTOMERIC COATING.

ELASTOMERIC COATING WILL NOT BE REQUIRED ON SURFACES THAT ARE REPAIRED WITH CARBON FIBER-REINFORCED POLYMER.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER SQUARE FOOT OF "ELASTOMERIC COATING", WHICH PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

BEFORE YOU DIG 811 800-522-OKIE CALL OKIE

SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE)
(SHEET 1 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HD 8/26
DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA

ADVERTISE DATE:

REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 2 OF 99 SHEETS

$$USERS$ $$DATES$ $$TIMES$
WORKSPACE$$WORKSPACE$
$$FILES$

BRIDGE PAY ITEM NOTES (CONT'D)

(B8) PENETRATING WATER REPELLENT SURFACE TREATMENT:
A PENETRATING WATER REPELLENT SURFACE TREATMENT SHALL BE APPLIED TO THE FOLLOWING CONCRETE SURFACES OF THE BRIDGES IN ACCORDANCE WITH SECTIONS 515 & 701 OF THE STANDARD SPECIFICATIONS:

BRIDGE 245
1. OUTSIDE FACE OF THE SLOPED FACE PARAPETS AND EXTERIOR BEAMS.
2. EDGES AND UNDERSIDE CANTILEVER PORTIONS OF THE BRIDGE DECK.
3. BOTTOM FACE OF THE EXTERIOR BEAMS.
4. FRONT, SIDES, AND EXPOSED AREAS OF THE ABUTMENT SEAT, BACKWALL, AND WINGWALLS NOT COVERED WITH ELASTOMERIC COATING.
5. EXPOSED AREAS OF THE PIER CAPS NOT COVERED WITH ELASTOMERIC COATING.

BRIDGE 258
1. OUTSIDE FACE OF THE SLOPED FACE PARAPETS AND FASCIA PANELS.
2. TOP AND BOTTOM FACES OF THE FASCIA PANELS.
3. FRONT, SIDES, AND EXPOSED AREAS OF THE ABUTMENT SEAT, BACKWALL, AND WINGWALLS NOT COVERED WITH ELASTOMERIC COATING.
4. EXPOSED AREAS OF THE PIER CAPS NOT COVERED WITH ELASTOMERIC COATING.

ALL COSTS ASSOCIATED WITH THE USE OF PENETRATING WATER REPELLENT SURFACE TREATMENT INCLUDING THE COST OF MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "WATER REPELLANT (VISUALLY INSPECTED)".

(B9) FALSEWORK AND JACKING:
THE CONTRACTOR WILL BE REQUIRED TO INSTALL FALSEWORK AT LOCATIONS SPECIFIED IN THE PLANS TO SUPPORT THE EXISTING SUPERSTRUCTURE WHILE THE EXISTING BEARINGS ARE REPLACED.

THE CONTRACTOR SHALL SUBMIT TO THE CITY OF TULSA A FALSEWORK AND JACKING PLAN. THE PLAN SHALL INCLUDE A LAYOUT OF FALSEWORK AND ANY REQUIRED JACKING, STRUCTURAL CALCULATIONS FOR THE DESIGN OF THE FALSEWORK, JACKING SCHEME, JACKING SEQUENCE, AND JACK CAPACITIES. THE FALSEWORK AND JACKING SHALL HAVE THE CAPACITY TO SUPPORT THE DEAD LOADS OF THE BRIDGE AND ALL TRAFFIC AND OTHER LIVE LOADS CARRIED BY THE BRIDGE. THE CONTRACTOR SHALL INSTALL THE FALSEWORK IN A MANNER SO AS NOT TO DAMAGE THE EXISTING BRIDGE. THE SUBMITTED PLAN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA. THE PLAN AND STRUCTURAL CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, LATEST EDITION AND SECTION 502 OF THE STANDARD SPECIFICATIONS. INSTALLATION OF THE FALSEWORK AND JACKING SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS RECIEVED APPROVAL OF THE SUBMITTED PLAN FROM THE CITY OF TULSA.

ALL COST NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF FALSEWORK, JACKING, ENGINEERING SERVICES, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) FALSEWORK JACKING".

(B10) REMOVAL OF BRIDGE ITEMS:
PAY ITEM "REMOVAL OF BRIDGE ITEMS" SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL ITEMS REMOVED FROM THE EXISTING BRIDGE AS SPECIFIED OR SHOWN IN THE PLANS AND INCLUDING THE FOLLOWING:

1. VARIOUS FIXED AND EXPANSION BEARING ASSEMBLIES LOCATED AT THE ABUTMENTS AND PIERS FOR BRIDGE 245, INCLUDING CUTTING THE EXISTING ANCHOR BOLTS FLUSH WITH THE TOP SURFACE OF THE ABUTMENTS AND PIERS, RESPECTIVELY.
2. VARIOUS EXPANSION BEARING ASSEMBLIES LOCATED AT PIER NOS. 4, 8, 12, & 16 FOR BRIDGE 258, INCLUDING CUTTING THE EXISTING ANCHOR BOLTS FLUSH WITH THE TOP SURFACE OF THE PIERS.

WHEN REMOVING THE ABOVE MENTIONED ITEMS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PREVENT DAMAGING THE EXISTING STRUCTURE. ONLY HAND TOOLS OR HAND OPERATED POWER TOOLS WILL BE ALLOWED TO MAKE THE REMOVALS AND NO VEHICLE MOUNTED TOOLS OR EQUIPMENT WILL BE ALLOWED. BEFORE MAKING ANY REMOVALS WITH IMPACT TOOLS, ALL CONCRETE COMPONENTS SHALL BE UNIFORMLY SAW CUT ALONG THE REMOVAL LINES SHOWN ON THE PLANS. ANY DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. THE ENGINEER WILL DETERMINE IF THE DAMAGED COMPONENTS CAN BE SATISFACTORILY REPAIRED OR IF THE COMPONENTS SHALL BE COMPLETELY REPLACED. ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF SAWING, CUTTING, DEMOLITION, CONTAINMENT AND REMOVAL OF DEBRIS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "REMOVAL OF BRIDGE ITEMS".

(B11) STAINLESS STEEL FIXED BEARING ASSEMBLIES:
PROVIDE AND INSTALL FIXED BEARING ASSEMBLIES OF THE SIZE, SHAPE, AND LOCATION AS SPECIFIED OR AS SHOWN IN THE PLANS FOR BRIDGE 245 ONLY. SEE SHEET NO. 29 FOR DETAILS. THE TOTAL ESTIMATED AMOUNT OF STRUCTURAL STEEL PER EACH FIXED BEARING ASSEMBLY IS 100.20 POUNDS FOR SPAN NOS. 1-17 AND 104.60 POUNDS FOR SPAN NO. 18.

THE ACTUAL LOCATION OF THE BEARINGS TO BE REPLACED SHALL BE DETERMINED IN THE FIELD BY THE CITY OF TULSA INSPECTOR. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL NUMBER OF BEARINGS REPLACED. ALL COST OF PROVIDING AND INSTALLING THE FIXED BEARING ASSEMBLIES AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF PLAIN ELASTOMERIC BEARING PADS, ANCHOR PLATES, ANCHOR BOLTS, NUTS, WASHERS, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "STAINLESS STEEL FIXED BEARING ASSEMBLY".

(B12) STAINLESS STEEL EXPANSION BEARING ASSEMBLIES:
PROVIDE AND INSTALL EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE, AND LOCATION AS SPECIFIED OR AS SHOWN IN THE PLANS. SEE SHEET NOS. 29 & 95 FOR DETAILS. THE TOTAL ESTIMATED AMOUNT OF STRUCTURAL STEEL PER EACH EXPANSION BEARING ASSEMBLY IS 100.20 POUNDS FOR SPAN NOS. 1-17 AND 104.60 POUNDS FOR SPAN NO. 18 OF BRIDGE 245 AND 104.60 POUNDS FOR BRIDGE 258.

THE ACTUAL LOCATION OF THE BEARINGS TO BE REPLACED SHALL BE DETERMINED IN THE FIELD BY THE CITY OF TULSA INSPECTOR. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL NUMBER OF BEARINGS REPLACED. ALL COST OF PROVIDING AND INSTALLING THE EXPANSION BEARING ASSEMBLIES AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF PLAIN ELASTOMERIC BEARING PADS, ANCHOR PLATES, ANCHOR BOLTS, NUTS, WASHERS, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "STAINLESS STEEL EXP. BEARING ASSEMBLY".

(B13) ANCHORAGE INTO EXISTING CONCRETE (ANCHOR BOLTS):
THE CONTRACTOR SHALL HAVE THE OPTION OF THE METHODS BY WHICH THE NEW ANCHOR BOLTS ARE TO BE ANCHORED INTO THE CONCRETE OF THE EXISTING BRIDGE. ANCHORAGE INTO THE EXISTING BRIDGE SHALL BE ACOMPLISHED BY ONE OF THE FOLLOWING METHODS:

1. SELF-MIXING INJECTION TYPE ANCHORAGE SYSTEMS "HILTI FASTENING SYSTEMS", "UNITEX PRO-PROXY 300 FAST", OR AN APPROVED EQUAL. ANCHORAGES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE SYSTEM USED.

2. ENCAPSULATED NON-EXPANDING CHEMICAL TYPE ANCHORAGE SYSTEMS SUCH AS "RAWPLUG COMPANY CHEM-STUD", "HILTI ENCAPSULATED" OR AN APPROVED EQUAL. ANCHORAGES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE SYSTEM USED.

DRILLING INTO THE EXISTING CONCRETE TO INSTALL THE ANCHOR BOLTS SHALL BE ACCOMPLISHED WITHOUT CUTTING EXISTING CONCRETE REINFORCING STEEL BARS. PRIOR TO DRILLING OR FABRICATION OF ANY BRIDGE COMPONENTS, THE CONTRACTOR SHALL LOCATE AND MARK THE EXISTING CONCRETE REINFORCING STEEL BARS WITH NONDESTRUCTIVE TOOLS, EQUIPMENT, AND METHODS APPROVED BY THE ENGINEER. IF EXISTING REINFORCING STEEL BARS ARE ENCOUNTERED DJRING DRILLING, THE DRILLING SHALL CEASE AND THE HOLE SHALL BE GROUTED. THE HOLE SHALL THEN BE RELOCATED TO CLEAR THE EXISTING REINFORCING STEEL BARS. ANY ADJUSTMENT IN THE LOCATIONS OF THE NEW ANCHOR BOLTS FROM THE PLAN LOCATIONS SHOWN SHALL BE THE MINIMUM AMOUNT NECESSARY TO AVOID CUTTING THE EXISTING REINFORCING STEEL BARS AND SHALL BE APPROVED BY THE ENGINEER.

ALL COST TO ANCHOR THE NEW ANCHOR BOLTS INTO THE EXISITNG BRIDGE AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF LOCATING EXISTING CONCRETE REINFORCING STEEL BARS, DRILLING, REPAIRING FLAWED DRILL HOLES, ADJUSTING ANCHOR BOLT LOCATION, ANCHORING INTO THE EXISTING CONCRETE, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

(B14) CONSTRUCTION WORK ROAD:
THE CONSTRUCTION WORK ROAD REQUIRED FOR REPAIRS TO PORTIONS OF THE BRIDGE WITHIN THE ARKANSAS RIVER SHALL BE CONSTRUCTED TO THE REQUIREMENTS OUTLINED IN THE 404 PERMIT. THE MATERIALS USED FOR CONSTRUCTION WORK ROAD SHALL BE APPROVED BY THE ARMY CORPS OF ENGINEERS (USACE, PHONE NUMBER 918-865-2621) AND ANY OTHER REGULATORY INSTITUTION WITH JURISDICTION OVER THE PORTION OF THE ARKANSAS RIVER WHICH THIS PROJECT IS BEING REHABILITATED.

ALL COSTS ASSOCIATED WITH THE CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE WORK ROAD, INCLUDING MATERIALS, LABOR, EQUIPMENT AND ANY INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "EARTHWORK".

(B15) PAINT REMOVAL AND PAINTING EXISTING STRUCTURAL STEEL:
THE CONTRACTOR SHALL PAINT ALL REMAINING BEARINGS AT THE ABUTMENTS AND PIERS. ALL CLEANING AND PAINTING SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATIONS USING CATEGORY "E" APPLICATION. THE CONTRACTOR MAY USE SSPC-SP 11, POWERTOOL CLEANING TO BARE METAL.

THE EXISTING STRUCTURAL STEEL MAY CONTAIN LEAD-BASED PAINT. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS AND FOLLOW ALL SPECIFICATIONS AND REGULATIONS IN HANDLING AND TRANSPORTING LEAD-BASED PAINT.

THE CONTRACTOR, AT HIS OPTION, MAY USE A CATEGORY "O" PRIMER, BUT ALL LOOSE MATERIAL AND RUST MUST FIRST BE REMOVED FROM THE BEARINGS AND THE PRIMER COAT MUST MEET OSHA SLIP REQUIREMENTS.

THE COLOR OF PAINT SHALL MATCH THE COLOR OF THE PAINT ON THE EXISTING BRIDGE.

ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "PAINTING EXISTING STRUCTURES" AND THE PRICE BID PER SQUARE FOOT OF "COLLECTION AND HANDLING OF WASTE".

(B16) EXPOSURE OF DETERIORATED STRUCTURAL STEEL:
IF ANY DETERIORATED STRUCTURAL STEEL ON THE REMAINING BEARINGS IS EXPOSED DURING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF TULSA INSPECTOR WHO IN TURN SHALL NOTIFY THE ENGINEER AS TO THE EXTENT OF THE DAMAGE. THE CITY OF TULSA INSPECTOR SHALL DETERMINE IF ANY REPAIRS ARE NECESSARY; AND IF SO, WHAT METHOD OF REPAIR SHALL BE USED.

(B17) CORROSION INHIBITOR(SURFACE APPLIED):
ITEM "CORROSION INHIBITOR(SURFACE APPLIED)" SHALL CONSIST OF APPLYING THE INHIBITOR TO EXPOSED REINFORCING IN THE CONCRETE BEAMS, DIAPHRAGMS, ABUTMENTS, AND PIER CAPS & COLUMNS. PRIOR TO APPLYING THE INHIBITOR, ENSURE THAT ALL UNSOUND CONCRETE HAS BEEN REMOVED FROM THE AREA. THE INHIBITOR WILL THEN BE APPLIED TO THE REINFORCING BEFORE ANY REPAIR WORK TO THE CONCRETE IS DONE. IN ADDITION, THE INHIBITOR WILL BE APPLIED TO THE CONCRETE SURFACES OF THE REPAIRED AREAS. REPAIRS SHALL BE MADE IN ACCORDANCE WITH SECTION 535-1 OF THE STANDARD SPECIFICATIONS.

ALL COSTS OF THE REPAIR INCLUDING LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CORROSION INHIBITOR(SURFACE APPLIED)".

(B18) (PL) REPAIR BRIDGE ITEM (TYPE A):
THE EXISTING BRIDGES, WHICH INCLUDES THE UNDERNEATH FACE OF THE BRIDGE DECK, SHALL BE REPAIRED WITH PHOSCRETE VO, OR AN APPROVED EQUAL, AS MANUFACTURED BY PHOSCRETE CORPORATION IN A MANNER APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. PRODUCT INFORMATION FOR PHOSCRETE VO CAN BE OBTAINED FROM PHOSCRETE CORPORATION OF DEERFIELD BEACH, FLORIDA, PHONE NUMBER 833-568-9251.

THE REMOVAL OF LOOSE CONCRETE SHALL BE DONE USING HAND TOOLS ONLY. NO POWER TOOLS WILL BE ALLOWED. POWER TOOLS WILL BE ALLOWED ONLY IF HAND TOOLS PROVE TO BE INCAPABLE OF REMOVING ALL UNSOUND CONCRETE AND IF THEIR USE IS APPROVED BY THE ENGINEER. ANY DAMAGE DONE TO THE EXISTING REINFORCING STEEL DURING THE REMOVAL PROCESS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. ANY DETERIORATED REINFORCING STEEL WITH A SECTION LOSS GREATER THAN 25%, AS DETERMINED BY THE CITY OF TULSA INSPECTOR, SHALL BE REPORTED TO THE ENGINEER FOR REMEDIAL ACTION. PRIOR TO MORTAR APPLICATION, BLAST CLEAN THE CONCRETE SURFACE AND REINFORCING STEEL FREE OF DEBRIS AND CORROSION. APPLY PHOSCRETE VO TO REPLACE DETERIORATED CONCRETE. BUILD UP MORTAR TO MATCH THE ORIGINAL LINES AND GRADES OF THE MEMBER BEING REPAIRED.

THE ACTUAL LOCATION AND EXTENT OF THE REPAIRS SHALL BE DETERMINED IN THE FIELD BY THE CITY OF TULSA INSPECTOR. THE REPAIRS SHALL ONLY BE MADE IN THE AREAS SELECTED BY THE ENGINEER. PAYMENT WILL BE MADE ONLY FOR THE ACTUAL REPAIRS PERFORMED. THE COST FOR ALL CONCRETE REPAIRS INCLUDING CONCRETE, EPOXY COATED REINFORCING STEEL, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS WILL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "(PL) REPAIR BRIDGE ITEM (TYPE A)".

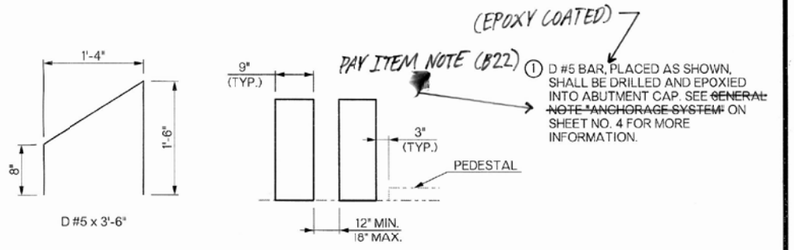
(B19) CLEANING BRIDGE SEATS:
ALL BRIDGE SEATS SHALL BE POWER WASHED & CLEANED OF ALL DEBRIS AND ALLOWED TO DRY BEFORE APPLICATION OF ELASTOMERIC COATING.

ALL COST OF CLEANING THE BRIDGE SEATS INCLUDING THE COST OF MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

(B20) PROTECTION OF PEDESTRIAN TRAFFIC UNDER BRIDGES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PEDESTRIAN TRAFFIC UNDER THE BRIDGES DURING CONSTRUCTION. A PROPOSED METHOD OF PREVENTING DEBRIS FROM FALLING ON THE PEDESTRIAN TRAILS BELOW THE BRIDGES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTION 105.02 OF THE STANDARD SPECIFICATIONS. ALL MATERIALS REMOVED FROM THE BRIDGES SHALL BE REMOVED FROM THE WORK AREA PROMPTLY. ALL COSTS FOR PEDESTRIAN TRAFFIC PROTECTION AS STATED SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "UNDER BRIDGE PROTECTION".

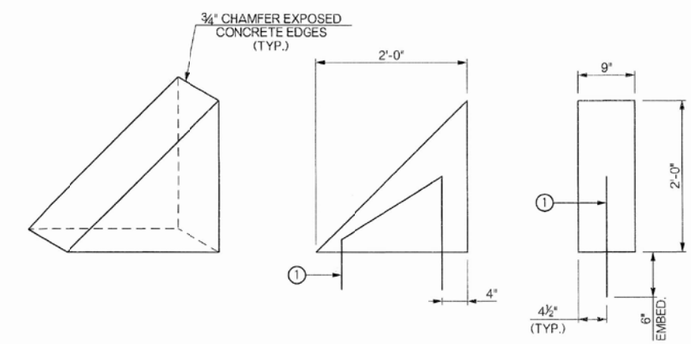
(B21) (PL) INSTALLATION OF BRIDGE ITEMS:
PROVIDE AND INSTALL ANTI-LOITERING BLOCKS AT THE WEST & EAST ABUTMENTS OF THE SIZE, SHAPE, AND LOCATION AS SHOWN IN THE PLANS FOR BRIDGES 245 & 258. THE TOTAL ESTIMATED AMOUNT OF CLASS A CONCRETE & EPOXY COATED REINFORCING STEEL IS 0.10 CUBIC YARD AND 5.00 POUNDS, RESPECTIVELY, PER ANTI-LOITERING BLOCK.

ALL COST OF PROVIDING AND INSTALLING THE ANTI-LOITERING BLOCKS AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF CLASS A CONCRETE, EPOXY COATED REINFORCING STEEL, DRILLING AND DOWELING INTO EXISTING CONCRETE, ANCHORAGE SYSTEM, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".



SPACING DETAIL

NOTE:
PROVIDE 1½" MINIMUM CLEAR COVER ON ALL CONCRETE SURFACES.



ISOMETRIC SECTION ELEVATION

ANTI-LOITERING BLOCKS

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE)
(SHEET 2 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/2/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 3 OF 99 SHEETS

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WORKSPACE:$$WORKSPACE$$
$$FILE$$

BRIDGE PAY ITEM NOTES (CONT'D)

(B22) ANCHORAGE SYSTEM:
THE CONTRACTOR SHALL USE AN ANCHORAGE SYSTEM THAT HAS BEEN APPROVED BY THE CITY OF TULSA. THE ANCHORAGE SYSTEM SHALL BE CAPABLE OF DEVELOPING THE FULL STRENGTH OF THE REINFORCING STEEL THAT IS TO BE ANCHORED. THE EMBEDMENT DEPTH SHOWN IS TO BE ADJUSTED TO MEET THE MANUFACTURER'S REQUIREMENTS. ANCHORAGES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE SYSTEM USED.

DRILLING INTO THE EXISTING CONCRETE TO INSTALL THE ANCHORAGE SHALL BE ACCOMPLISHED WITHOUT CUTTING EXISTING CONCRETE REINFORCING STEEL BARS. PRIOR TO DRILLING, THE CONTRACTOR SHALL LOCATE AND MARK THE EXISTING CONCRETE REINFORCING STEEL BARS WITH NON-DESTRUCTIVE TOOLS, EQUIPMENT AND METHODS APPROVED BY THE ENGINEER. IF EXISTING REINFORCING STEEL BARS ARE ENCOUNTERED DURING DRILLING, THE DRILLING SHALL CEASE AND THE HOLE SHALL BE GROUTED. THE HOLE SHALL THEN BE RELOCATED TO CLEAR THE EXISTING REINFORCING STEEL BARS. ANY ADJUSTMENT IN THE LOCATIONS OF THE NEW D BARS FROM THE DETAILS SHOWN SHALL BE THE MINIMUM AMOUNT NECESSARY TO AVOID CUTTING THE EXISTING CONCRETE REINFORCING STEEL BARS AND SHALL BE APPROVED BY THE ENGINEER.

ALL COSTS OF THE ANCHORAGE ASSEMBLIES INCLUDING LABOR, MATERIALS, TOOLS, DRILLING, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".

(B23) TEMPORARY CONSTRUCTION ACCESS:
PAY ITEM CONSISTS OF PROVIDING TEMPORARY CONSTRUCTION ACCESS AT EACH BANK AT BRIDGES 245 & 258. THIS INCLUDES THE REMOVAL & RECONSTRUCTION OF THE FOLLOWING, BUT NOT LIMITED TO, FENCING, GUARDRAIL, CONCRETE BARRIERS, PAVING, CURBS, LIGHT POLES, ETC.

THE CONTRACTOR SHALL REMOVE ANY LIGHT POLES IN CONFLICT WITH THE PROPOSED WORK ROADS. THE EXISTING CONCRETE FOOTINGS SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY LIGHT POLES THAT ARE REMOVED SHALL BE RESET ONCE THE WORK ROAD HAS BEEN REMOVED.

ANY DAMAGES CAUSED BY THE CONTRACTOR TO THE PEDESTRIAN TRAIL, PAVEMENT, CURB, SIDEWALK, LIGHT POLES, OR LIGHT POLE FOOTINGS SHALL BE REPAIRED OR COMPLETELY REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY OF TULSA INSPECTOR. THE CITY OF TULSA INSPECTOR WILL DETERMINE IF THE DAMAGED COMPONENT CAN BE SATISFACTORILY REPAIRED OR IF THE COMPONENT SHALL BE COMPLETELY REPLACED. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR THIS WORK.

ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF SAWING, CUTTING, DEMOLITION, RECONSTRUCTION, CONTAINMENT AND REMOVAL OF DEBRIS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "TEMPORARY CONSTRUCTION ACCESS".

CONSTRUCTION PAY ITEM NOTES

(E6) 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.

(E7) 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.

(E8) PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.

(G-2) MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE WITH SECTION 841 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.

(X1) ALL EROSION CONTROL ITEMS SHALL BE SUBSIDIARY TO PAY ITEM.

SUMMARY OF PAY QUANTITIES - BRIDGES 245 & 258

ITEM NO.	SPEC. NO.	DESCRIPTION	PAY ITEM NOTES	UNIT	BRIDGE 245 QUANTITY	BRIDGE 258 QUANTITY	TOTAL
1	202(H)	EARTHWORK	(B14)	EA	2.00	2.00	4.00
2	501(G)	CLSM BACKFILL	(B4)	CY	3.00		3.00
3	502(B)	(PL)FALSEWORK JACKING	(B20)	EA	84.00	32.00	116.00
4	507(A)	STAINLESS STEEL FIXED BEARING ASSEMBLY	(B9)	EA	24.00		24.00
5	507(B)	STAINLESS STEEL EXP. BEARING ASSEMBLY	(B11)(B13)	EA	60.00	32.00	92.00
6	509(B)	CLASS A CONCRETE	(B12)(B13)	CY	21.00	6.00	27.00
7	512(A)	PAINTING EXISTING STRUCTURES	(B2)	SF	408.00	664.00	1,072.00
8	512(B)	COLLECTION AND HANDLING OF WASTE	(B15)(B16)	SF	408.00	664.00	1,072.00
9	515(A)	WATER REPELLENT (VISUALLY INSPECTED)	(B15)(B16)	SY	7,121.00	10,277.00	17,398.00
10	517	ELASTOMERIC COATING	(B8)	SF	11,332.00	20,680.00	32,012.00
11	520(A)	PREPARATION OF CRACKS, ABOVE WATER	(B7)(B19)	LF	3,310.00	4,490.00	7,800.00
12	520(C)	EPOXY RESIN, ABOVE WATER	(B3)	GAL	111.00	167.00	278.00
13	521(A)	PNEUMATICALLY PLACED MORTAR	(B3)	SY	740.00	77.00	817.00
14	524(A)	(SP) CARBON FIBER-REINFORCED POLYMER	(B1)	SF	12,711.00	1,432.00	14,143.00
15	535	CORROSION INHIBITOR(SURFACE APPLIED)	(B6)	SY	884.00	117.00	1,001.00
16	540	(PL)REPAIR BRIDGE ITEMS	(B17)	SY	740.00	77.00	817.00
17	540	(PL)REPAIR BRIDGE ITEM (TYPE A)	(B5)	SY	11.00	15.00	26.00
18	542	(PL)INSTALLATION OF BRIDGE ITEMS	(B18)	EA	48.00	58.00	106.00
19	619(B)	REMOVAL OF BRIDGE ITEMS	(B23)	LSUM	1.00	1.00	2.00
20	SPECIAL	UNDER BRIDGE PROTECTION	(B21)(B22)	EA	2.00	2.00	4.00
21	SPECIAL	TEMPORARY CONSTRUCTION ACCESS	(B10)	EA	2.00	2.00	4.00
22	220	SWPPP DOCUMENTATION AND MANAGEMENT	(E6)(E7)(E8)(X1)	LSUM			1
23	641	MOBILIZATION	(G-2)	EA			1
24	SPECIAL	OWNER ALLOWANCE		EA			25,000
25	COT 334	CONSTRUCTION AS-BUILT		LSUM			1
26	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM			1

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA 7/14/26

ADVERTISE DATE:		
REVISION	BY	DATE

SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE) (SHEET 3 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

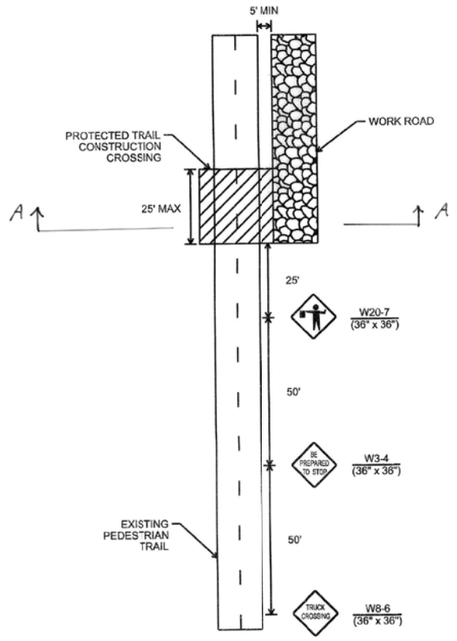
PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HBS 8-26
DESIGN MANAGER
CITY ENGINEER

FILE: DRAWING: DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35 SHEET 4 OF 99 SHEETS

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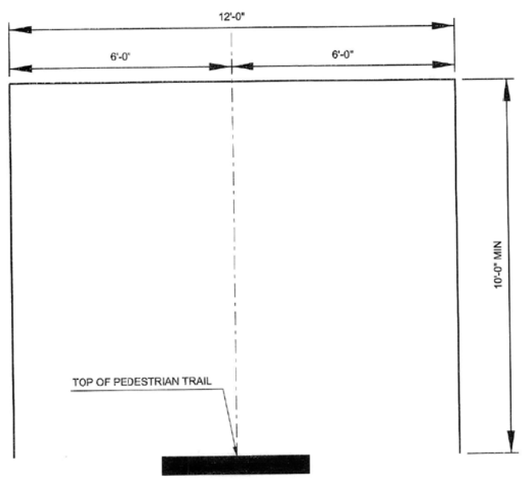


PEDESTRIAN TRAIL CONSTRUCTION CLEARANCE DIAGRAM:

HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF THE PEDESTRIAN TRAIL.

VERTICAL DIMENSION SHOWN IS PERPENDICULAR TO THE TOP OF THE PEDESTRIAN TRAIL.

ALL CONSTRUCTION MATERIALS, SCAFFOLDING, AND EQUIPMENT SHALL BE REMOVED FROM WITHIN THESE CLEARANCE LIMITS AT THE END OF EACH WORKDAY.



SECTION A-A.

PAY QUANTITIES

TEMPORARY TRAFFIC							
ITEM NO.	SPEC NO.	DESCRIPTION	PAY NOTES	UNIT	BRIDGE 245 QUANTITY	BRIDGE 258 QUANTITY	TOTAL
27	880(B)	CONSTRUCTION SIGNS 0 TO 6.25 SF	(T-2,4,5)(1)	SD	4,050	4,745	8,795
28	880(B)	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF	(T-2,4,5)(1)	SD	5,265	3,855	9,120
29	880(C)	CONSTRUCTION BARRICADES(TYPE III)	(T-2,4,5)(1)	SD	270	450	720
30	880(E)	WARNING LIGHTS (TYPE A)	(T-5)(1)	SD	5,265	3,855	9,120
31	880(F)	DRUMS	(T-2,4,5)(1)	SD	4,590	4,560	9,150
32	880(I)	FLAGGER	(1)(2)	SD	280	320	600

TRAFFIC CONSTRUCTION NOTES

T-1: NOT USED

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

T-3: NOT USED

T-4: PAYMENT SHALL BE MADE ON A SIGN-DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTSFOR 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 & T-7: NOT USED

1: 270 CONSTRUCTION CALENDAR DAYS, 193 WORKING DAYS, WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS FOR BRIDGE 245. 320 CONSTRUCTION CALENDAR DAYS, 229 WORKING DAYS, WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS FOR BRIDGE 258. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT CITY OF TULSA AND MUTCD STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFC CONTROL IS MODIFIED DURING CONSTRUCTION.

2: PAYMENT SHALL INCLUDE COST OF ALL NECESSARY FLAGGING REQUIRED TO ENSURE THE SAFETY AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC ON BOTH THE ROADWAYS AND TRAILS, REGARDLESS OF NUMBER OF FLAGGERS BEING USED, OR DURATIONOF FLAGGING REQUIRED THROUGHOUT THE WORK DAY. MAXIMUM PAYMENT FOR FLAGGERS IS 1 SD PER CONSTRUCTION DAY, NO ADDITIONAL PAYMENT SHALL BE MADE.

BEFORE YOU DIG 811 800-522 OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 33772 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

SUMMARY OF PAY QUANTITIES AND NOTES (TRAFFIC)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	JLH	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE

PROFILE SCALE
HORIZONTAL:

VERTICAL:

RECOMMENDED:

HAS 8.26
DESIGN MANAGER

CITY ENGINEER

FILE: DRAWING:

DATE: 10/2/2026

ATLAS PAGE NO. 5, 16, 34, 35

SHEET 5 OF 99 SHEETS

$$USER$$
WORKSPACE=$$WORKSPACE$$
$$FILE$$

$$DATE$$ $$TIME$$

GENERAL CONSTRUCTION NOTES (VERSION DATE: 9/12/2016)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINACE #24616, JUNE 2021, AND THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS, STANDARD DETAILS, STANDARD DRAWINGS AND 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 SPECIFICATIONS. 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 AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCI/VERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.

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

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

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

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

10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT 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. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING, NEIGHBORHOOD, MTTA ETC. TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT.

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 ADMIN AT 918-596-9508 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

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

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

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

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

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

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

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

29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.

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

44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING NEIGHBORHOOD, METROLINK, ETC. TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 23572 OKLAHOMA

GENERAL NOTES

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	9/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE

PROFILE SCALE
HORIZONTAL:
VERTICAL:

RECOMMENDED:

DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:

REVISION	BY	DATE

FILE: DRAWING:

DATE: 10/2/2026

ATLAS PAGE NO. 5, 16, 34, 35

SHEET 6 OF 99 SHEETS

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STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS: ALONG THE W. 21ST ST. BRIDGE, BRIDGE 258, FROM RIVER PARKS W. TRAIL TO RIVERSIDE DR.

ALONG U.S. RTE. 66 BRIDGE, BRIDGE 245, FROM RIVER PARKS W. TRAIL TO RIVERSIDE DR.

PROJECT DESCRIPTION: SUBSTRUCTURE & SUPERSTRUCTURE REPAIRS TO BRIDGES 245 AND 258. ACCESS TO THE SPANS OVER THE ARKANSAS RIVER WILL REQUIRE WORK ROADS.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL PERIMETER TEMPORARY SEDIMENT CONTROLS SPECIFIED. STRIP, STOCKPILE AND STABILIZE TOPSOIL. CLEAR AND GRUB ONLY IN NECESSARY AREAS, PRESERVING AS MUCH NATIVE VEGETATION AS POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE TEMPORARY SEDIMENT ITEMS WITH CONSTRUCTION OPERATIONS AS PRACTICAL. IF DIRECTED BY THE ENGINEER, PLANT TEMPORARY SEEDING. REPLACE SALVAGED TOPSOIL AND DEVICES WHEN AN ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%) HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE CONTRACTOR MAY CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS AS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL MAINTAIN A LOG OF THE NOTES OF MAJOR SOIL DISTURBANCE ACTIVITIES AND ALSO THE NOTES OF INSTALLATION OF EROSION CONTROL MEASURES.

SOIL TYPE: CHOSKA-SEVERN-URBAN LAND COMPLEX AND KIOMATIA LOAMY

TOTAL AREA OF THE CONSTRUCTION SITE: BRIDGE 245: 2.3 ACRES, BRIDGE 258: 3.2 ACRES

ESTIMATED AREA TO BE DISTURBED: 0 AC

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: BRIDGE 245: 0.10 ACRES, BRIDGE 258: 0.30 ACRES

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: BRIDGE 245: 0.10 ACRES, BRIDGE 258: 0.30 ACRES

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.30

LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36°07'53" / W95°59'34" AND N36°08'33" / W95°00'16"

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: ARKANSAS RIVER

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303(d) IMPAIRED WATERS: YES ☒ NO ☐

IF YES, LIST IMPAIRMENT: SEDIMENT/TURBIDITY

LOCATED IN A TMDL: YES ☐ NO ☒

LAKE THUNDERBIRD TMDL: YES ☐ NO ☒

MS4 ENTITY YES ☒ NO ☐

IF YES, LOCATION: CITY OF TULSA

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

REVISED 8-1-2022

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

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

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

STRUCTURAL PRACTICES:

- X STABILIZED CONSTRUCTION EXIT
- X TEMPORARY SILT FENCE
- X 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
- X TEMPORARY SEDIMENT REMOVAL
- ____ RIP RAP
- ____ INLET PROTECTION
- ____ TEMPORARY BRUSH SEDIMENT BARRIERS
- ____ SANDBAG BERMS
- ____ TEMPORARY STREAM CROSSINGS
- ____ FLEXAMAT / ARTICULATED CONCRETE BLOCK
- ____ COMPOST FILTER SOCKS
- ____ EROSION CONTROL MATS AND BLANKETS

OFFSITE VEHICLE TRACKING:

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

NOTES:

SILT SHALL BE REMOVED FROM TEMPORARY EROSION CONTROLDEVICES WHEN HALF FULL OR AS DIRECTED BY ENGINEER. COST TO BE INCLUDED IN THE PRICE BID FOR EROSION CONTROL DEVICE.

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, OCTOBER 18, 2022.

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

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STORMWATER MANAGEMENT PLAN

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	CTH	05/25	APPROVED:
DESIGNED	HLT	06/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

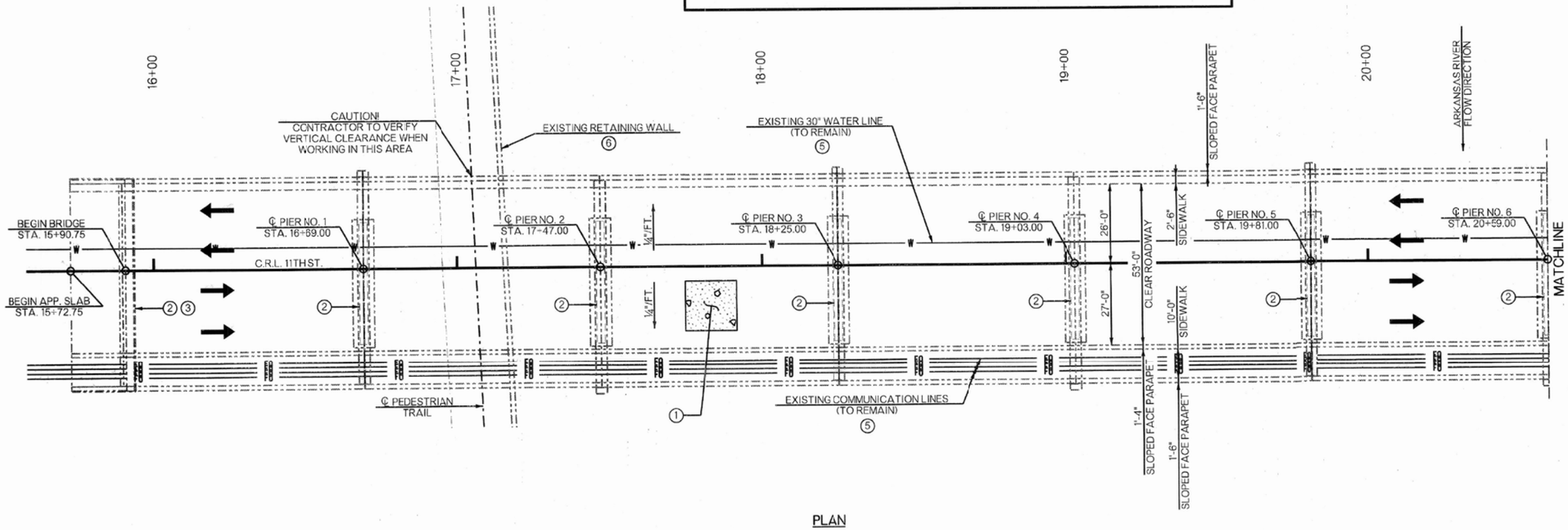
PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:

RECOMMENDED:
HBS 8-26
DESIGN MANAGER
CITY ENGINEER

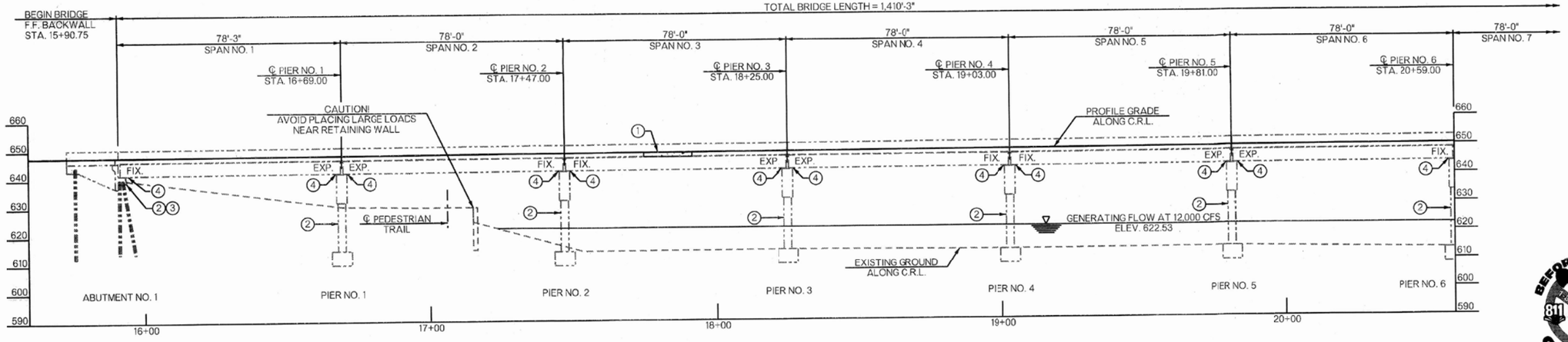
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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



PLAN



ELEVATION

INDEX OF SHEETS

SHEET NO.	TITLE
8-10	BRIDGE 245 - GENERAL PLAN AND ELEVATION
11-13	BRIDGE 245 - TEMPORARY WORK ROAD DETAILS
14	BRIDGE 245 - TYPICAL SECTION
15	BRIDGE 245 - ABUTMENT REPAIRS
16-25	BRIDGE 245 - SUBSTRUCTURE REPAIRS
26-28	BRIDGE 245 - SUPERSTRUCTURE REPAIRS
29	BRIDGE 245 - BEARING DETAILS
30-32	BRIDGE 245 - TRAFFIC CONTROL

① REPAIR SOFFIT USING (PL) REPAIR BRIDGE ITEM (TYPE A). SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR DETAILS.

② REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.

③ REPAIR EROSION UNDERNEATH WEST ABUTMENT WITH CLSM BACKFILL.

④ REPAIR BEAMS & DIAPHRAGMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.

⑤ PROVIDE TEMPORARY SUPPORT TO ALL EXISTING UTILITIES, WHICH ARE ATTACHED TO THE SUPERSTRUCTURE & DECK, WHEN IN CONFLICT WITH THE PROPOSED CONCRETE REPAIRS. SEE GENERAL NOTE "TEMPORARY UTILITY SUPPORT" FOR MORE INFORMATION.

⑥ THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

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Bradley Randall Thompson
22868
OKLAHOMA

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REVISION	BY	DATE

BRIDGE 245 - GENERAL PLAN AND ELEVATION
(SHEET 1 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	SJL	9/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	1/26
FIELD MGR.		

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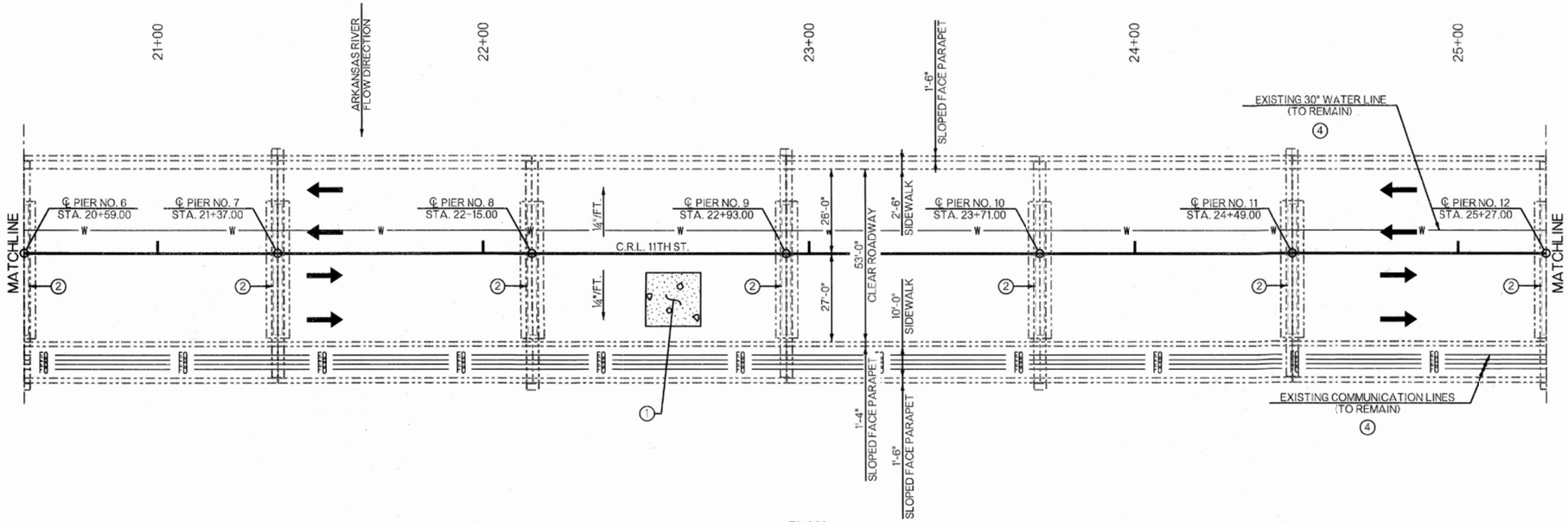
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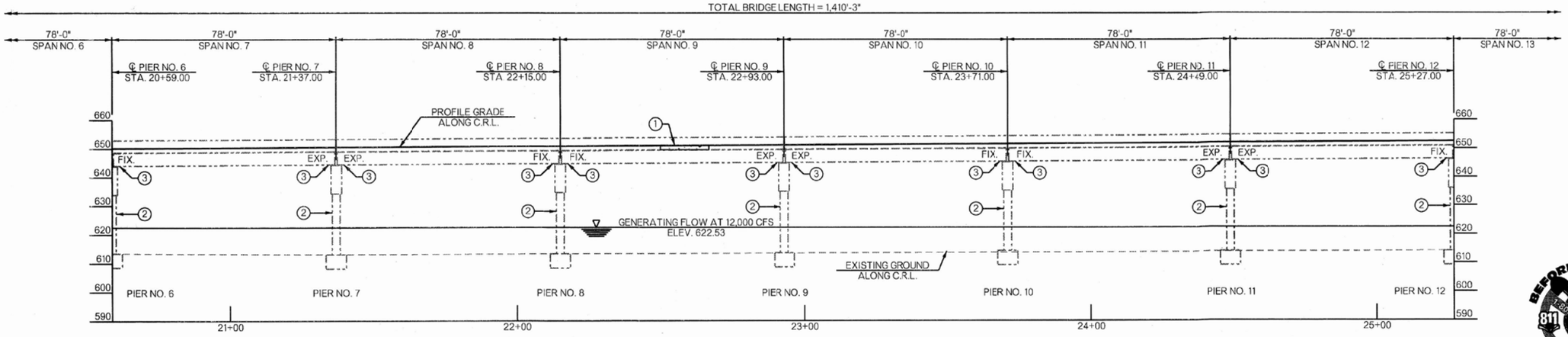
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PLAN



ELEVATION

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LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 22865 OKLAHOMA

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BRIDGE 245 - GENERAL PLAN AND ELEVATION (SHEET 2 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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TULSA, OKLAHOMA 74136 Fax: (918) 658-0107

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PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

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

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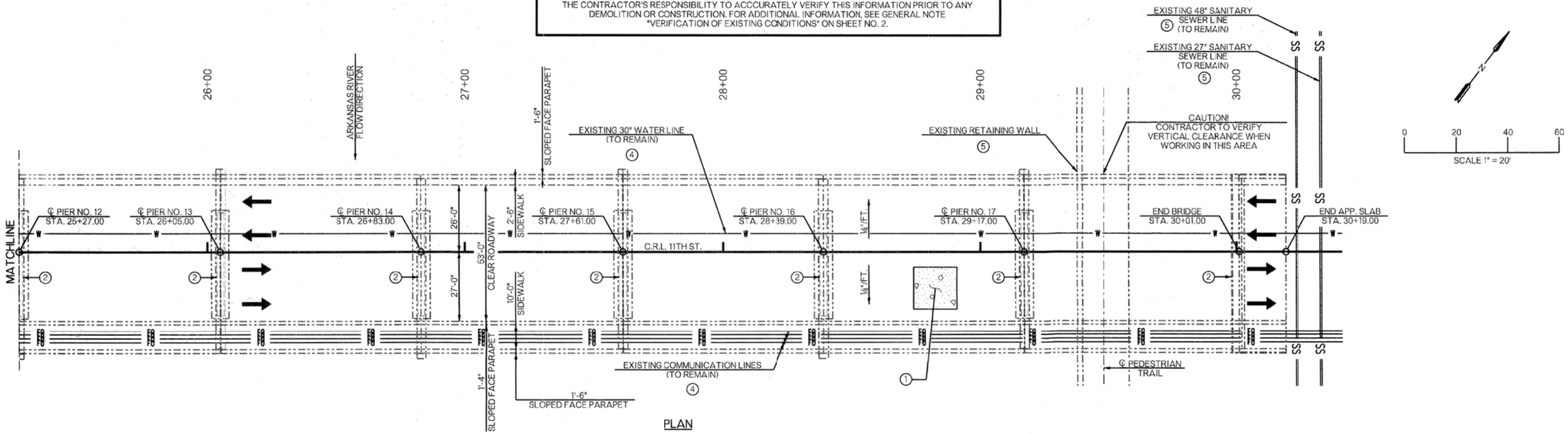
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CITY ENGINEER

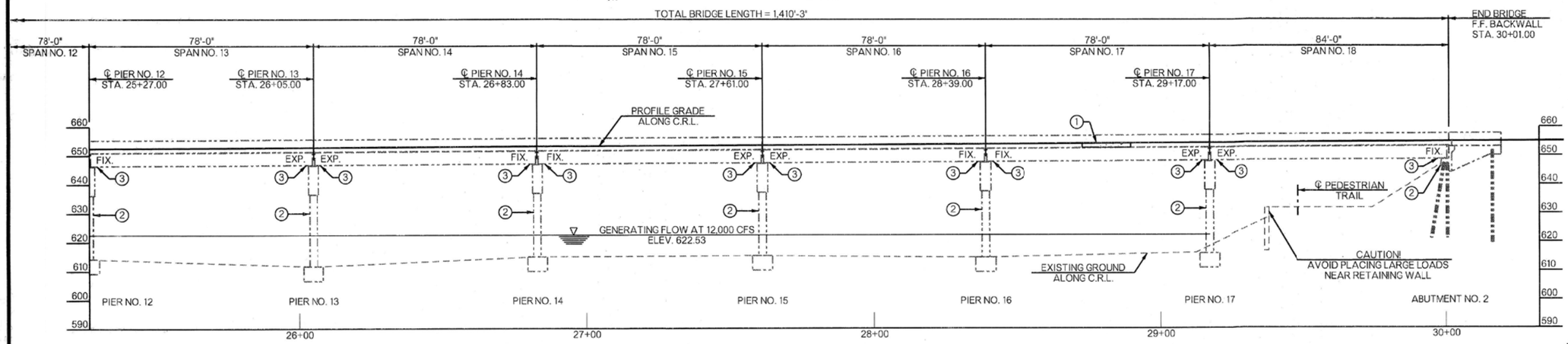
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PLAN



ELEVATION

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BRIDGE 245 - GENERAL PLAN AND ELEVATION (SHEET 3 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 858-0107

DRAWN	SJL	9/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	11/26
FIELD MGR.		

APPROVED:

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

RECOMMENDED:

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DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22858 OKLAHOMA

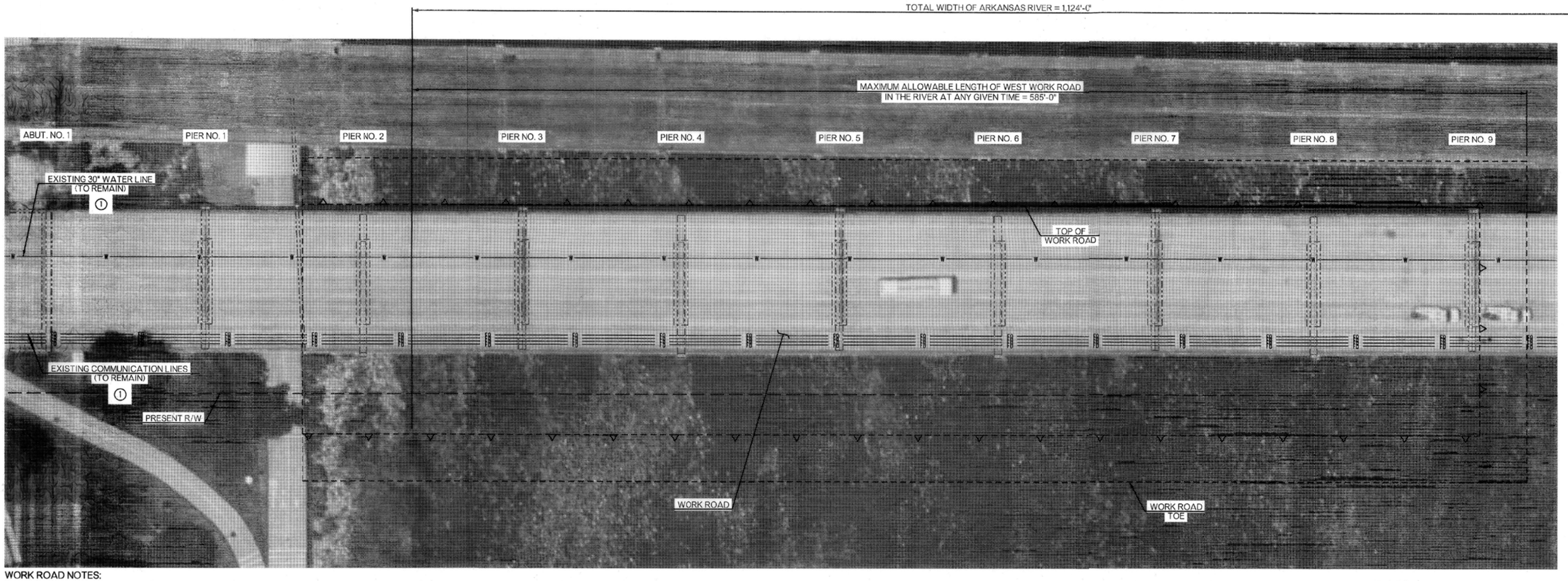
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0 25 50 75
SCALE 1" = 25'



WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.

2) ACTUAL ALIGNMENT OF WORK ROADS MAY VARY FROM THAT SHOWN.

3) WORK ROAD HEIGHTS, WIDTHS, AND SECTIONS SHOWN ARE CONCEPTUAL ONLY AND ARE NOT, IN ANY WAY, MEANT TO CONVEY THE TYPE OR MATERIALS USED TO SUCCESSFULLY COMPLETE PROJECT CONSTRUCTION IN CONFORMANCE WITH THESE DRAWINGS AND SPECIFICATIONS.

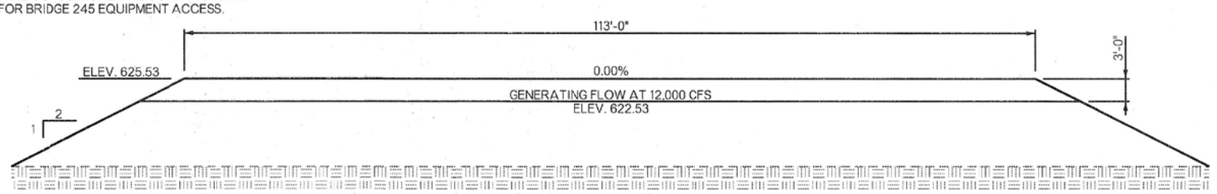
4) CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION, REMOVAL, CLEANUP, MAINTENANCE, AND REPAIR OF WORK ROADS AND DIVERSION MEASURES.

5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 245 EQUIPMENT ACCESS.

WEST WORK ROAD

① THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING UTILITIES IN THE AREA. ALL UTILITIES SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.



TYPICAL SECTION THRU WORK ROAD

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BRIDGE 245 - TEMPORARY WORK ROAD DETAILS (SHEET 1 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136 Phone: (918) 250-5922 Fax: (918) 858-0107

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SURVEY			
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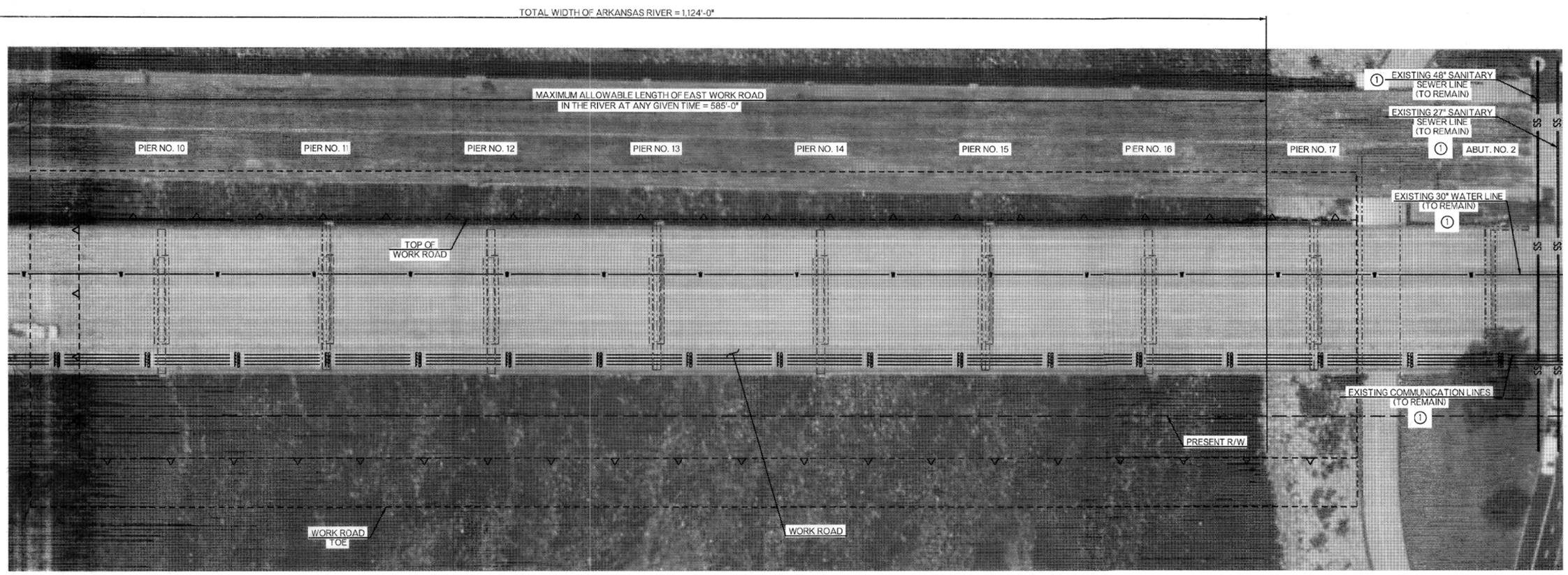
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CITY ENGINEER

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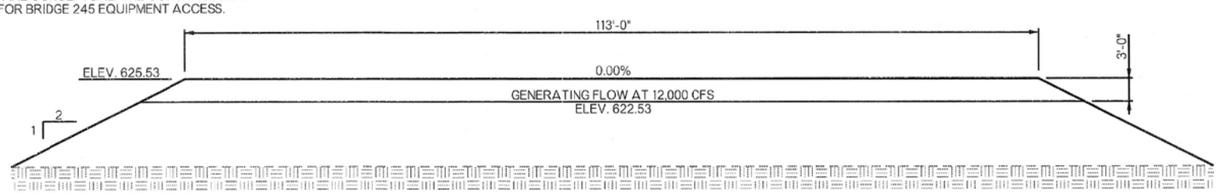
0 25 50 75
SCALE 1" = 25'



WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.
2) ACTUAL ALIGNMENT OF WORK ROADS MAY VARY FROM THAT SHOWN.
3) WORK ROAD HEIGHTS, WIDTHS, AND SECTIONS SHOWN ARE CONCEPTUAL ONLY AND ARE NOT, IN ANY WAY, MEANT TO CONVEY THE TYPE OR MATERIALS USED TO SUCCESSFULLY COMPLETE PROJECT CONSTRUCTION IN CONFORMANCE WITH THESE DRAWINGS AND SPECIFICATIONS.
4) CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION, REMOVAL, CLEANUP, MAINTENANCE, AND REPAIR OF WORK ROADS AND DIVERSION MEASURES.
5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 245 EQUIPMENT ACCESS.

EAST WORK ROAD



TYPICAL SECTION THRU WORK ROAD

① THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING UTILITIES IN THE AREA. ALL UTILITIES SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 245 - TEMPORARY WORK ROAD DETAILS (SHEET 2 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
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DRAWN	JMH	11/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE 1"=25'
PROFILE SCALE HORIZONTAL: 1"=25' VERTICAL: 1"=25'
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

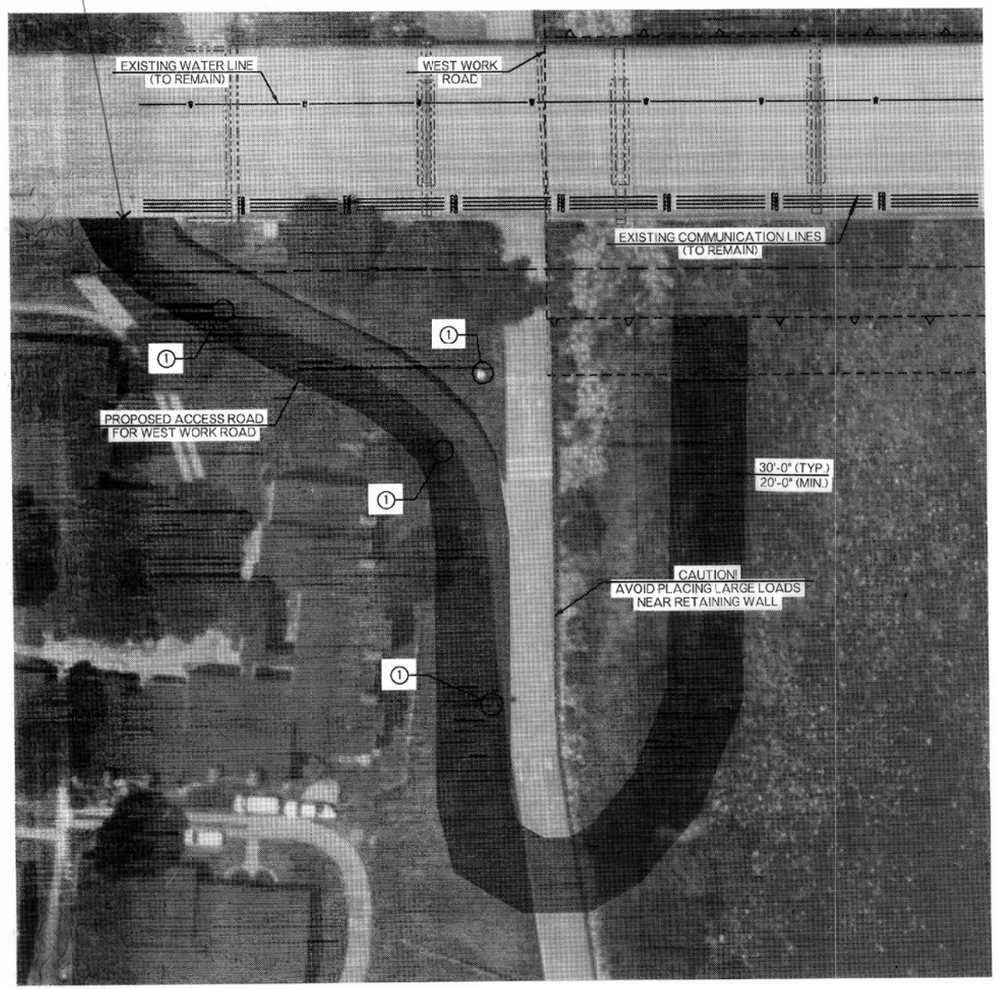
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POTENTIAL ENTRY POINT



WEST WORK ROAD

① THE CONTRACTOR SHALL REMOVE ANY LIGHT POLES IN CONFLICT WITH THE PROPOSED WORK ROAD. THE EXISTING CONCRETE FOOTINGS SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY LIGHT POLES THAT ARE REMOVED SHALL BE RESET ONCE THE WORK ROAD HAS BEEN REMOVED. ALL COSTS ASSOCIATED WITH THE REMOVAL & RESETTING OF THE LIGHT POLES SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "TEMPORARY CONSTRUCTION ACCESS".

WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.

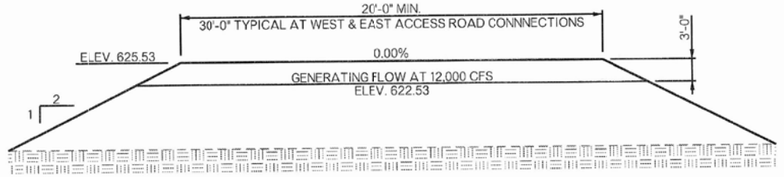
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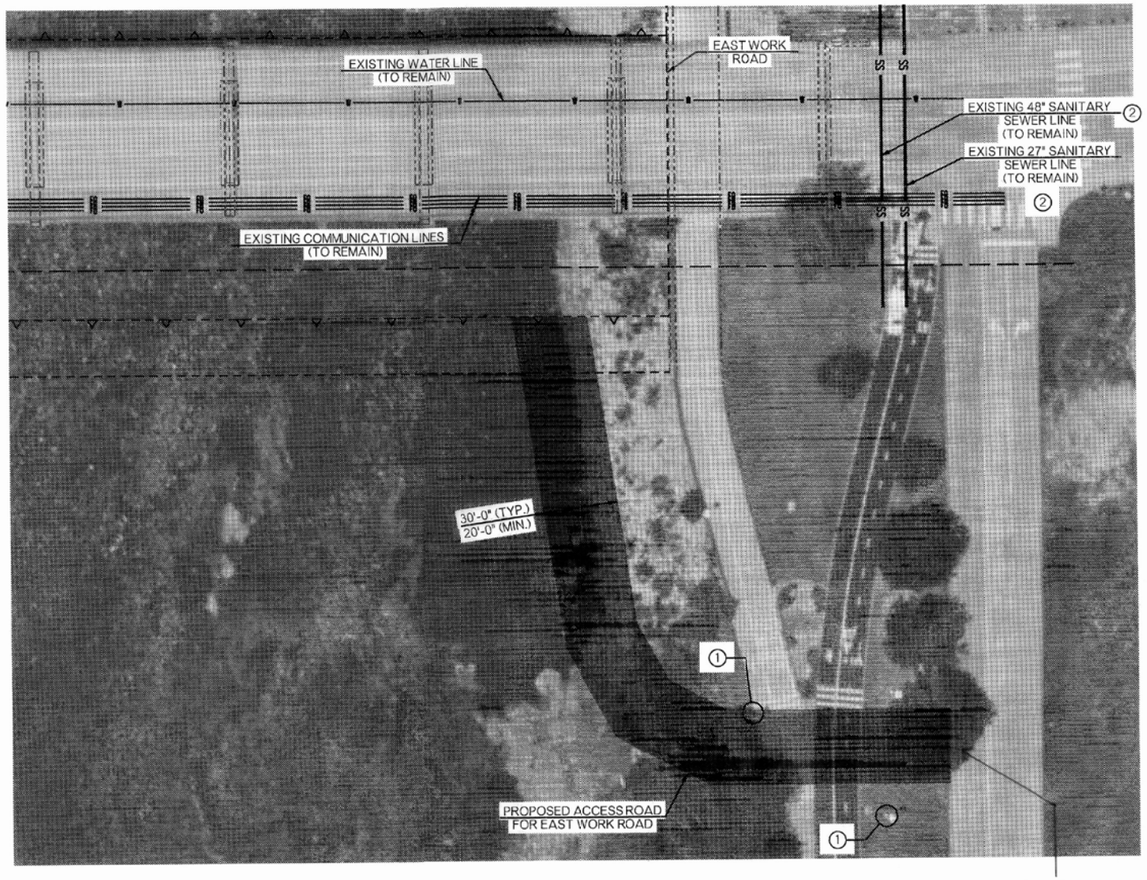
5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 245 EQUIPMENT ACCESS.



TYPICAL SECTION THRU ACCESS ROAD

② THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING UTILITIES IN THE AREA. ALL UTILITIES SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.



EAST WORK ROAD

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BRIDGE 245 - TEMPORARY WORK ROAD DETAILS (SHEET 3 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
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FIELD MGR.			

PLAN SCALE 1"=25'
PROFILE SCALE HORIZONTAL: 1"=25' VERTICAL: 1"=25'
RECOMMENDED:
DESIGN MANAGER
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ATLAS PAGE NO. 5, 16, 34, 35
SHEET 13 OF 99 SHEETS

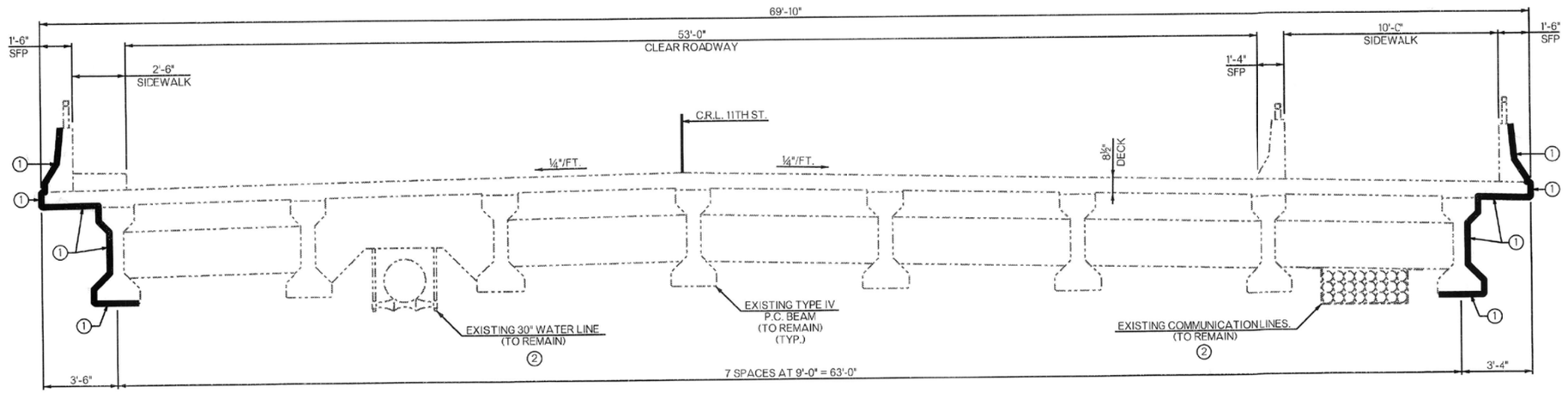
LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 22868 OKLAHOMA 7/14/26

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L:\2024\103-2401662 - COT 103 - Br 245 and 258 Rehab\Design\Reports\404 PCN\Bridge 245\COT_2436B0005Z-245,258-245_TEMPORARY WORK ROAD DETAILS 3.dgn

INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

LEGEND

- EXISTING STRUCTURE
- PROPOSED STRUCTURE



TYPICAL SECTION

(LOOKING FORWARD STATION)

① APPLY WATER REPELLENT TO THE EXTERIOR CONCRETE FACES OF THE PARAPETS, DECK, & EXTERIOR BEAMS, AS WELL AS THE UNDERSIDE CANTILEVER PORTION OF THE BRIDGE DECK AND BOTTOM FACE OF THE EXTERIOR BEAMS (SHOWN AS A HEAVY LINE).

② PROVIDE TEMPORARY SUPPORT TO ALL EXISTING UTILITIES, WHICH ARE ATTACHED TO THE SUPERSTRUCTURE & DECK, WHEN IN CONFLICT WITH THE PROPOSED CONCRETE REPAIRS. SEE GENERAL NOTE "TEMPORARY UTILITY SUPPORT" FOR MORE INFORMATION.

SUMMARY OF QUANTITIES - SUPERSTRUCTURE		
ITEM	UNIT	TOTAL
(PL)FALSEWORK JACKING	EA	84.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	24.00
STAINLESS STEEL EXP. BEARING ASSEMBLY	EA	60.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	4,311.00
ELASTOMERIC COATING	SF	3,774.00
PREPARATION OF CRACKS, ABOVE WATER	LF	2,160.00
EPOXY RESIN, ABOVE WATER	GAL	72.00
PNEUMATICALLY PLACED MORTAR	SY	330.00
(SP) CARBON FIBER-REINFORCED POLYMER	SF	8,608.00
CORROSION INHIBITOR(SURFACE APPLIED)	SY	330.00
(PL)REPAIR BRIDGE ITEMS	SY	330.00
(PL)REPAIR BRIDGE ITEM (TYPE A)	SY	11.00

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ADVERTISE DATE:

REVISION	BY	DATE

BRIDGE 245 - TYPICAL SECTION

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (913) 250-5922
Fax: (918) 858-0107

DRAWN	SJL	9/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

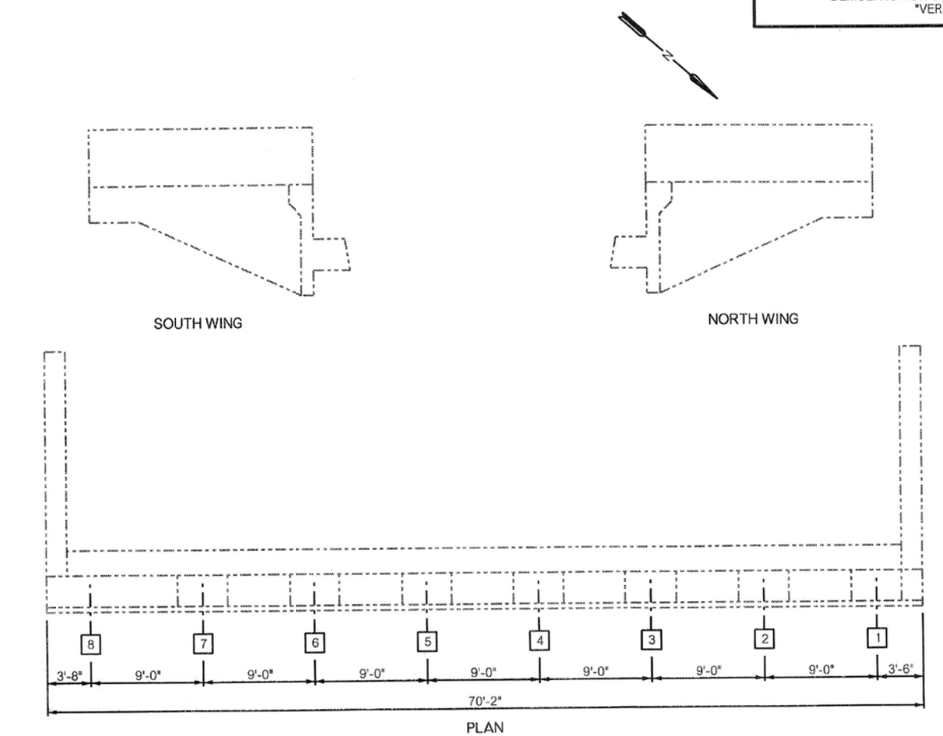
RECOMMENDED:
HBI 8-26
DESIGN MANAGER

CITY ENGINEER

FILE: DRAWING:
DATE: 7/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 14 OF 99 SHEETS

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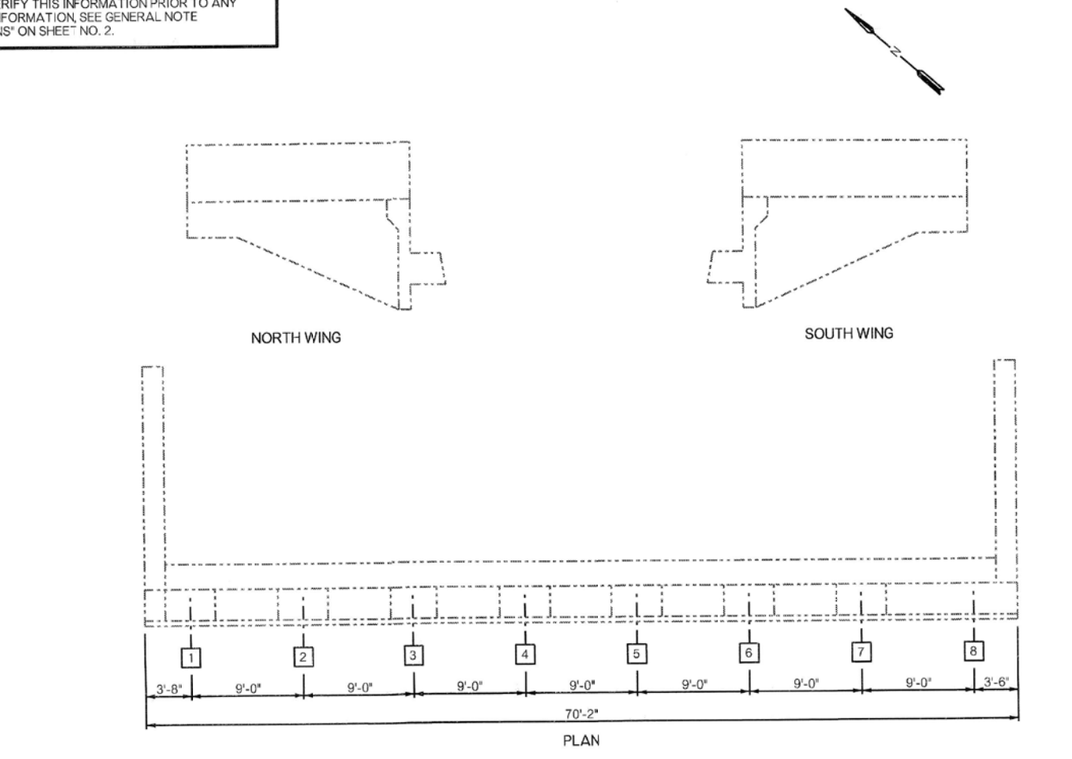
ABUTMENT NO. 1 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT ABUTMENT CAP. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE DETAILS AND GENERAL NOTES ON SHEET NO. 3. TO BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.



ABUTMENT NO. 2 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT ABUTMENT CAP. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE DETAILS AND GENERAL NOTES ON SHEET NO. 3. TO BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - ABUTMENT REPAIRS

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	8/24
DESIGNED	JMH	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:

HAS 8-26
DESIGN MANAGER

CITY ENGINEER

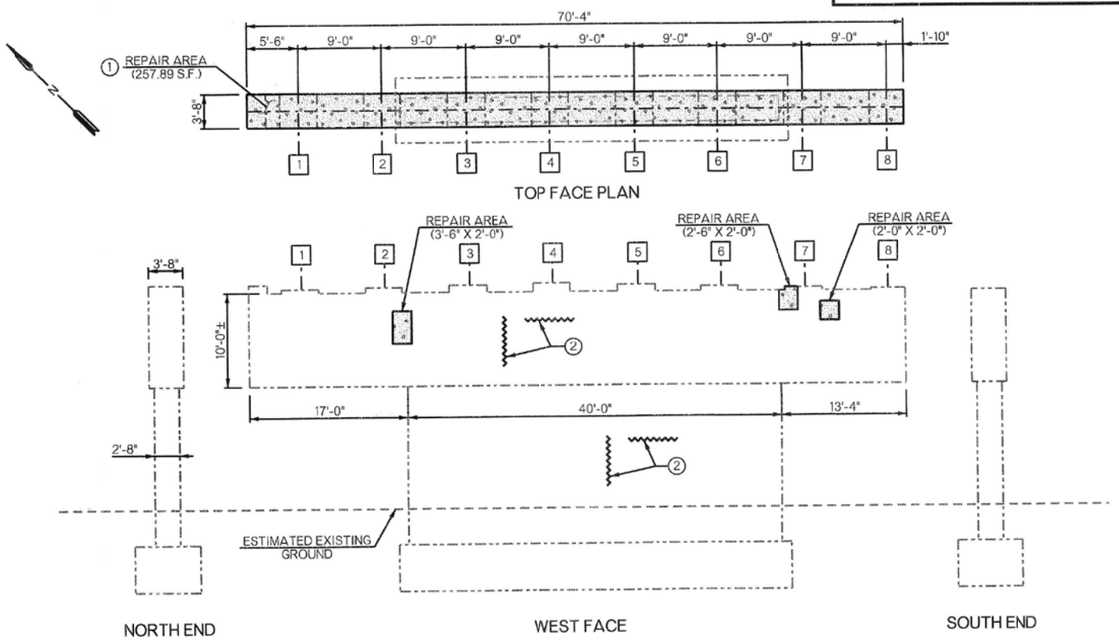
LICENSED PROFESSIONAL ENGINEER
Bradley, Randal Thompson
7/14/26
22868
OKLAHOMA

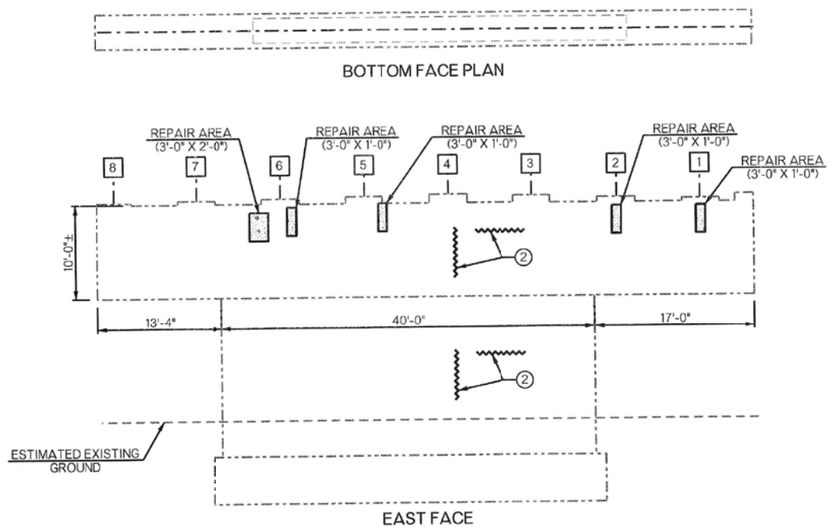
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PIER NO. 1 REPAIR DETAILS

LEGEND

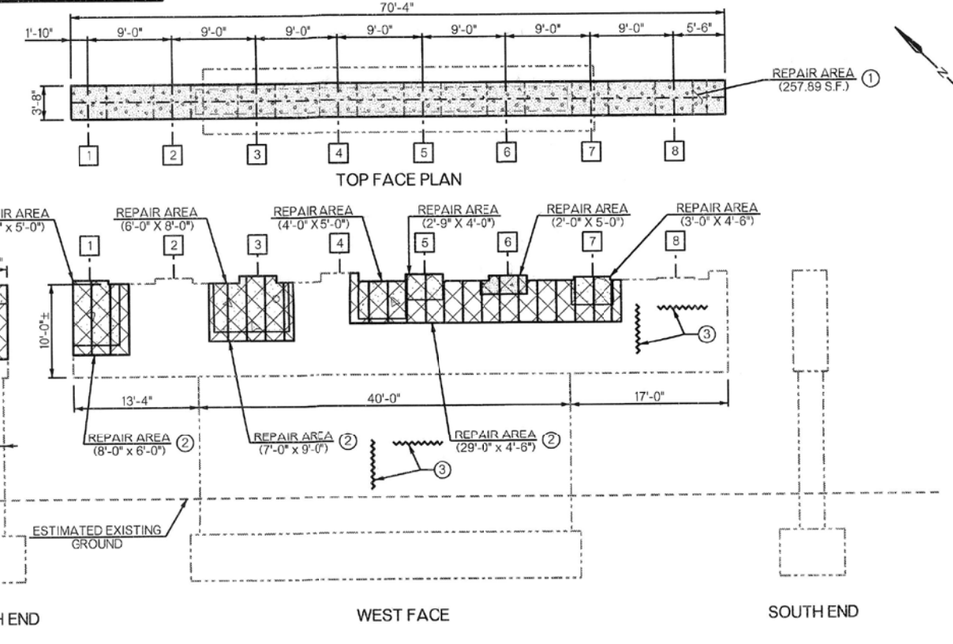
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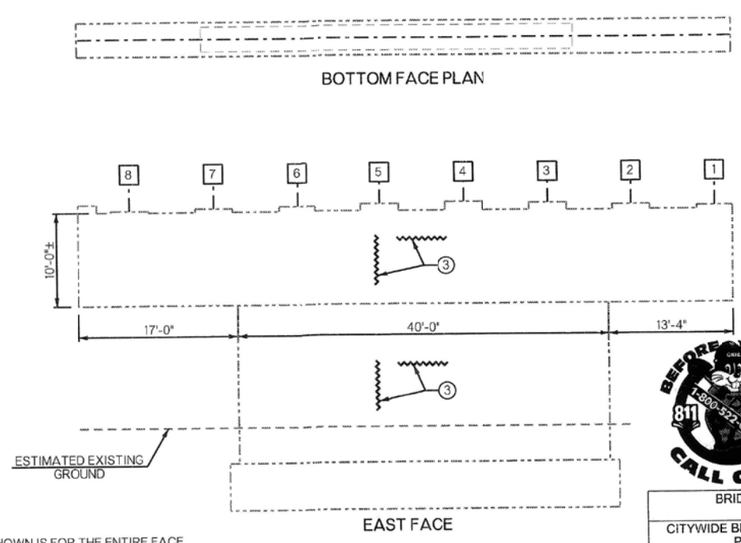
① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTES:
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SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.





PIER NO. 2 REPAIR DETAILS

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 1 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 856-0107

GARVER

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

DESIGN MANAGER — CITY ENGINEER

ADVERTISE DATE:

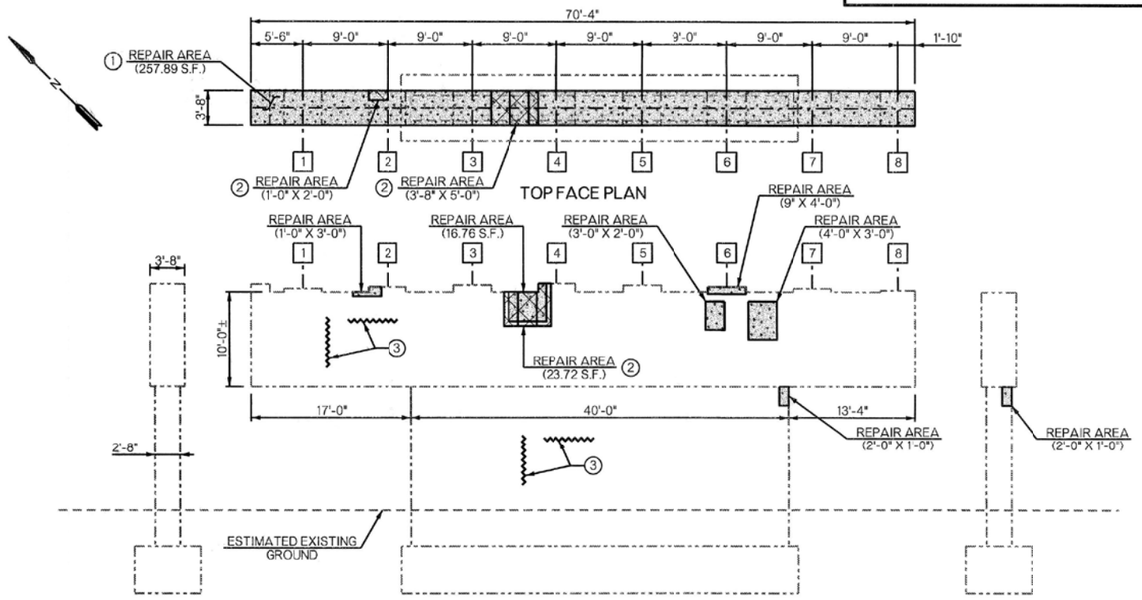
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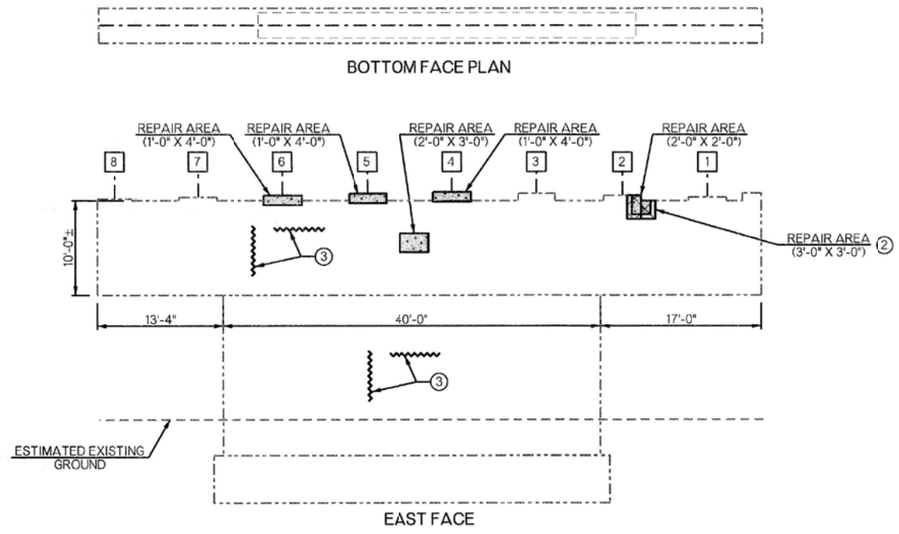
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ATLAS PAGE NO. 5, 16, 34, 35
SHEET 16 OF 99 SHEETS

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PIER NO. 3 REPAIR DETAILS

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

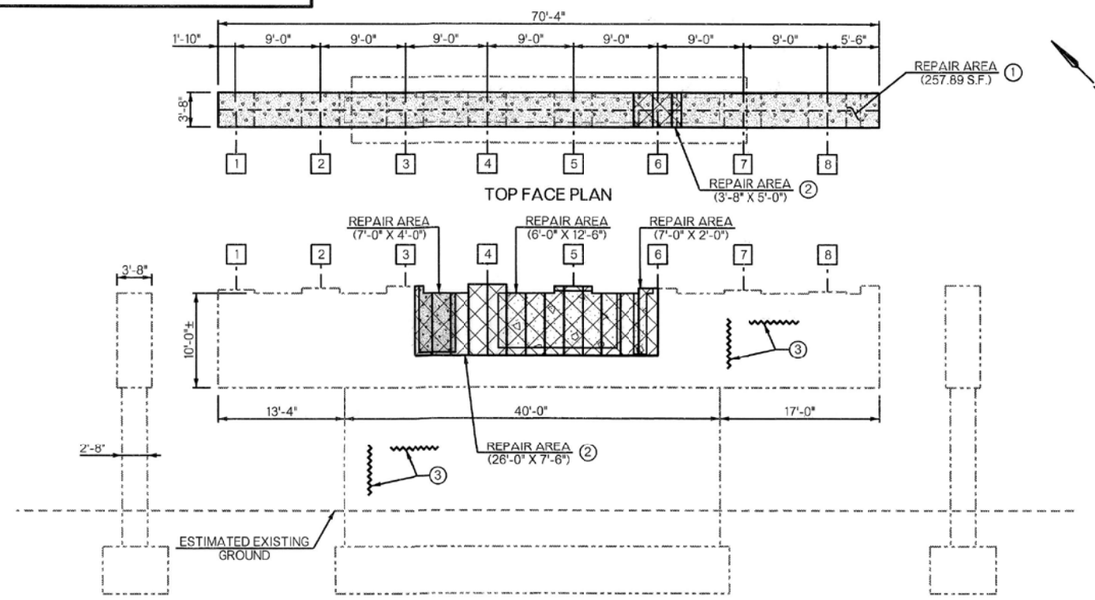
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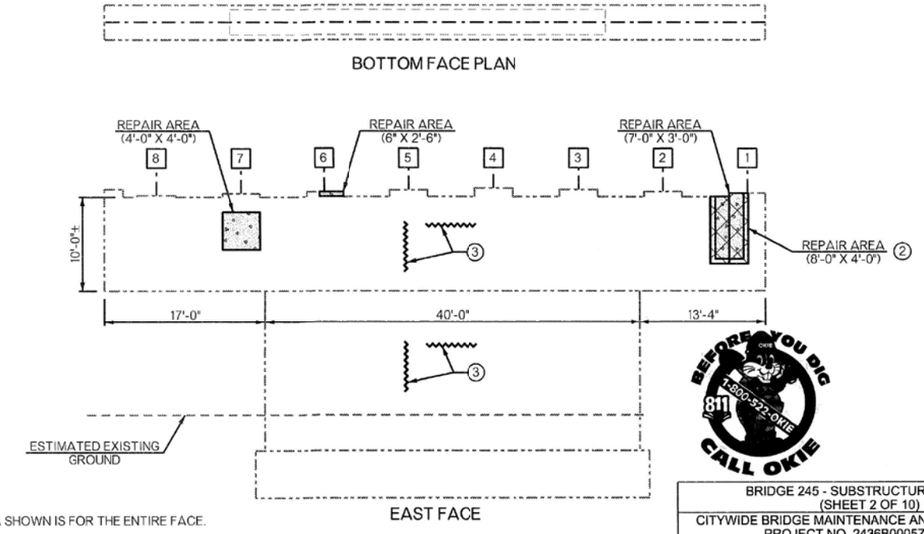
② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTES:
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SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.





PIER NO. 4 REPAIR DETAILS

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 2 OF 10)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

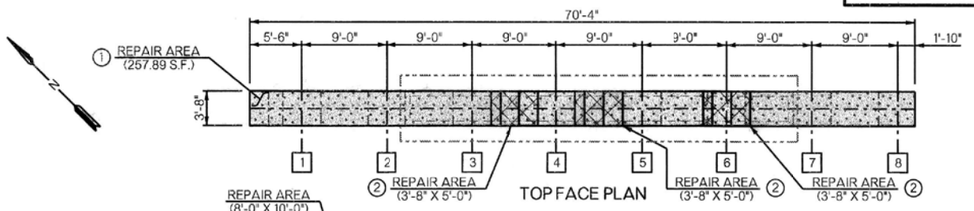
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
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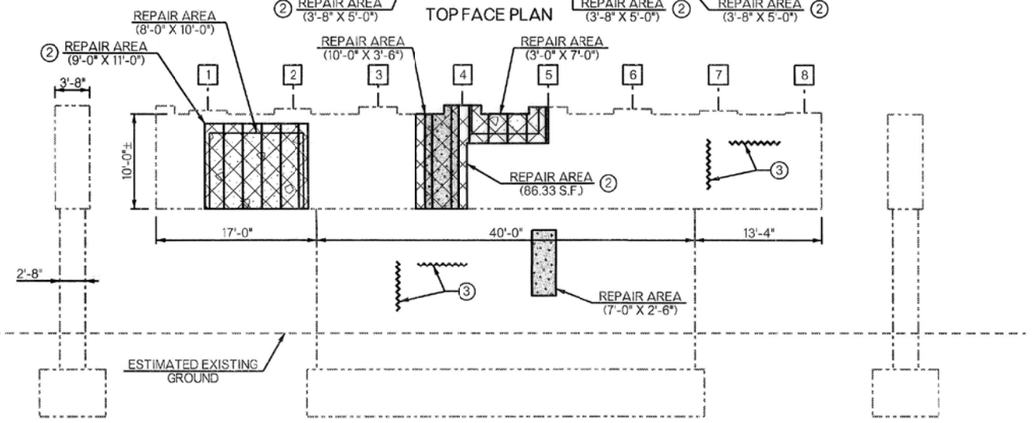
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SHEET 17 OF 99 SHEETS

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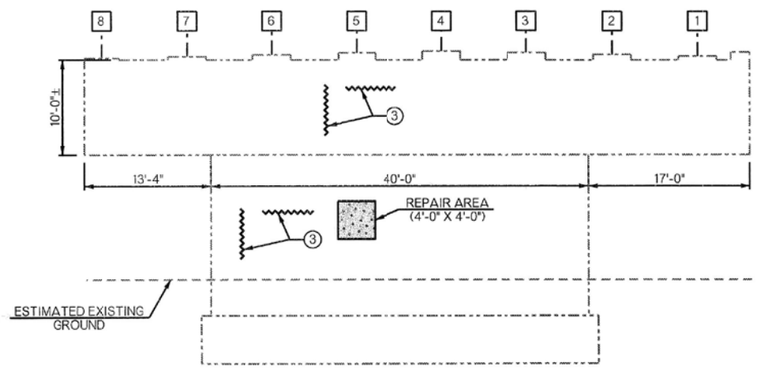


TOP FACE PLAN



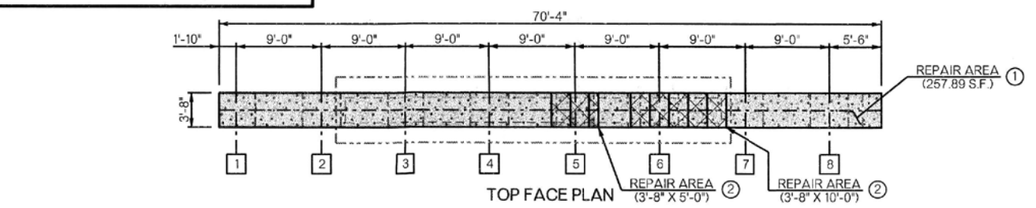
NORTH END WEST FACE SOUTH END

BOTTOM FACE PLAN

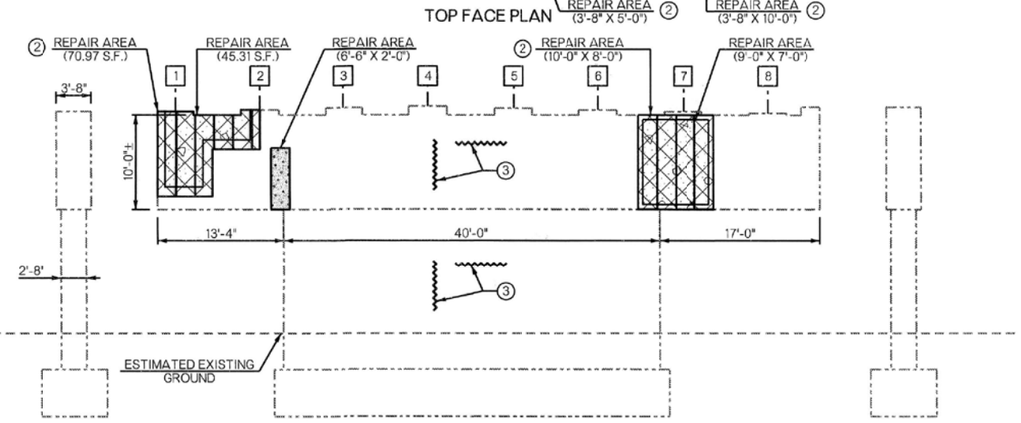


EAST FACE

PIER NO. 5 REPAIR DETAILS

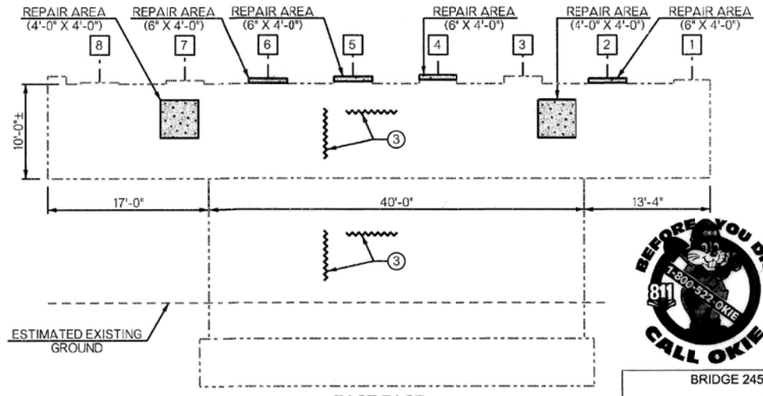


TOP FACE PLAN



NORTH END WEST FACE SOUTH END

BOTTOM FACE PLAN



EAST FACE

PIER NO. 6 REPAIR DETAILS

1. REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
2. SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
3. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

1. REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
2. SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
3. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

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LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

BEFORE YOU DIG 811 1-800-522 OKIE CALL OKIE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 3 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE. SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	8/24	APPROVED:
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FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

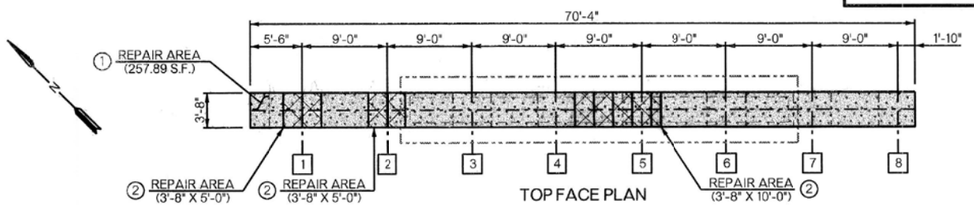
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

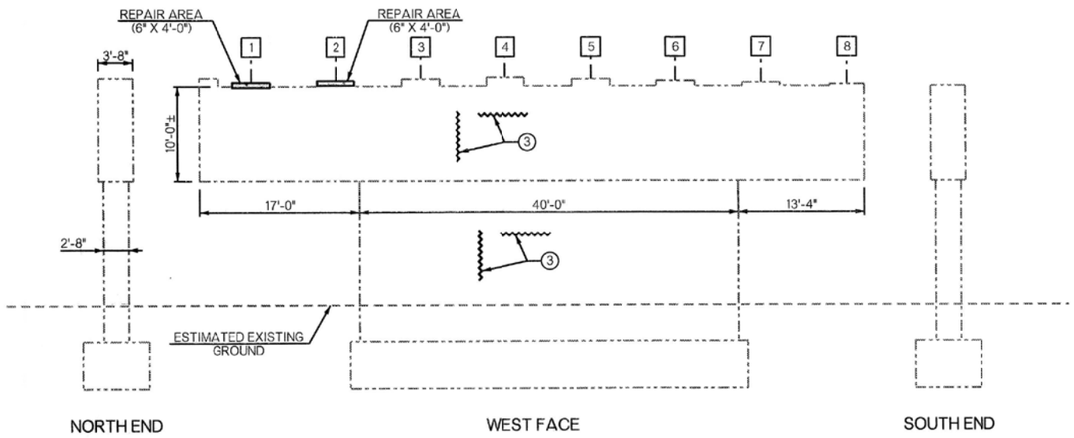
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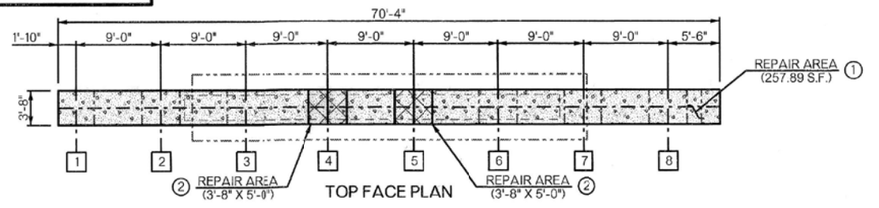
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SHEET 18 OF 99 SHEETS

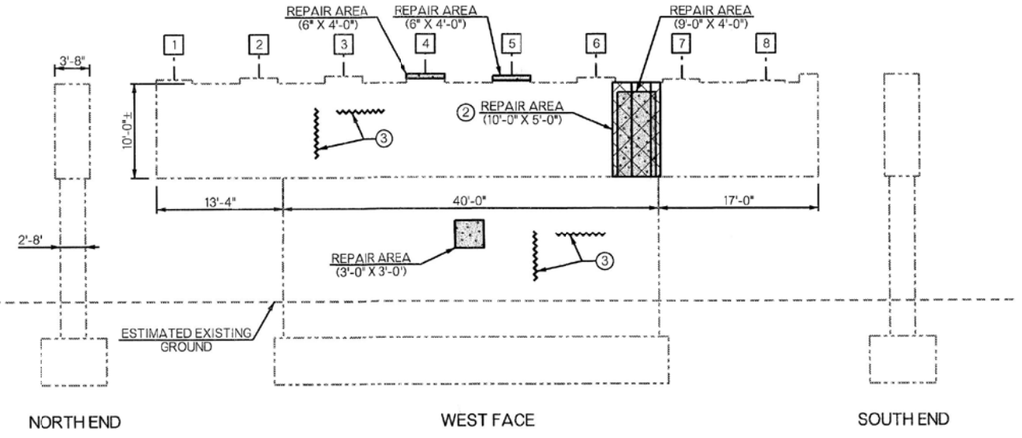
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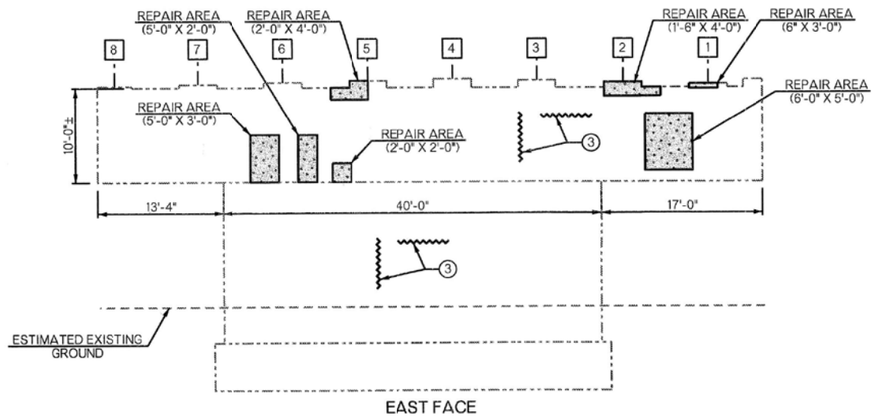






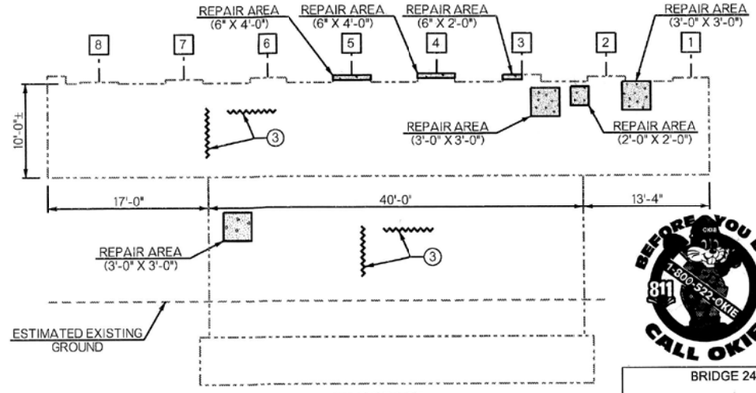






PIER NO. 7 REPAIR DETAILS





PIER NO. 8 REPAIR DETAILS

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTES:

ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

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BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 4 OF 10)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

PLAN SCALE

PROFILE SCALE
HORIZONTAL:
VERTICAL:

RECOMMENDED:

Has B. Zo
DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

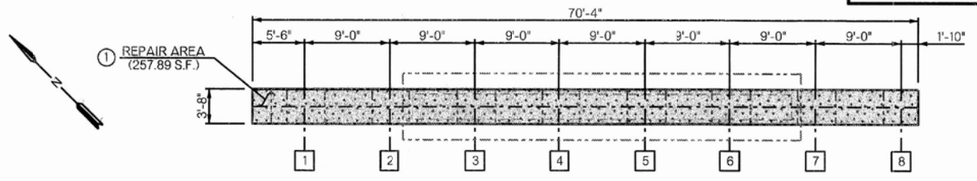
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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 19 OF 99 SHEETS

LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/14/26
22868
OKLAHOMA

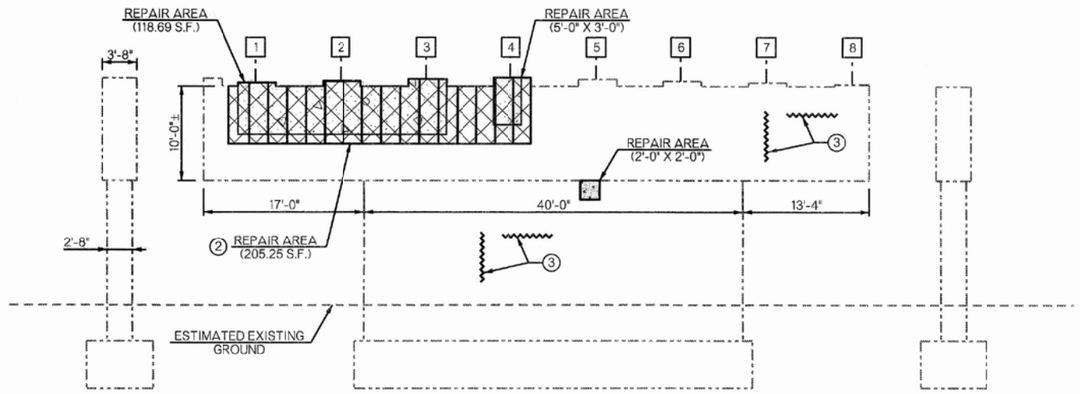
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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

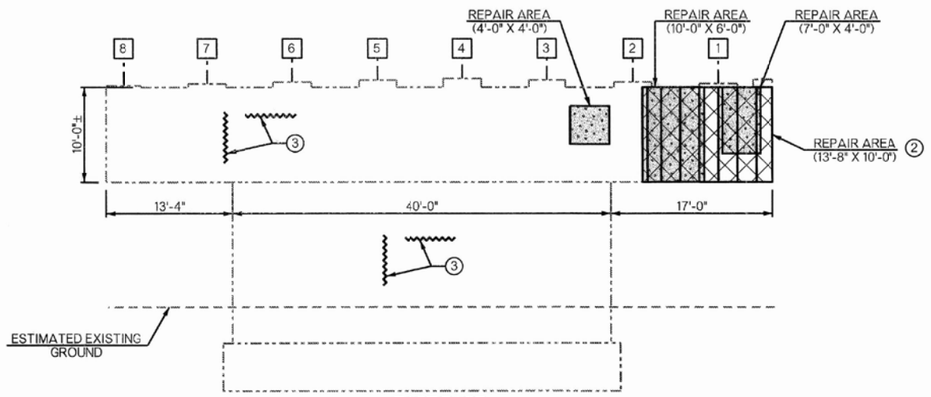


TOP FACE PLAN



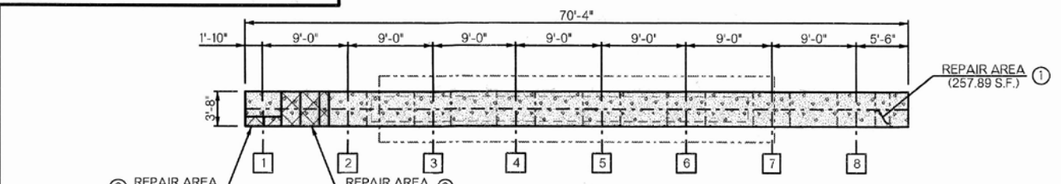
NORTH END WEST FACE SOUTH END

BOTTOM FACE PLAN

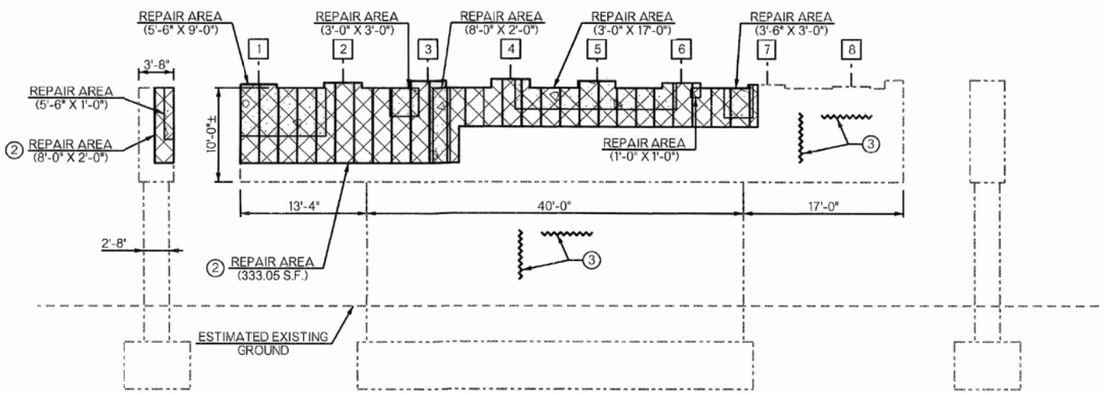


EAST FACE

PIER NO. 9 REPAIR DETAILS

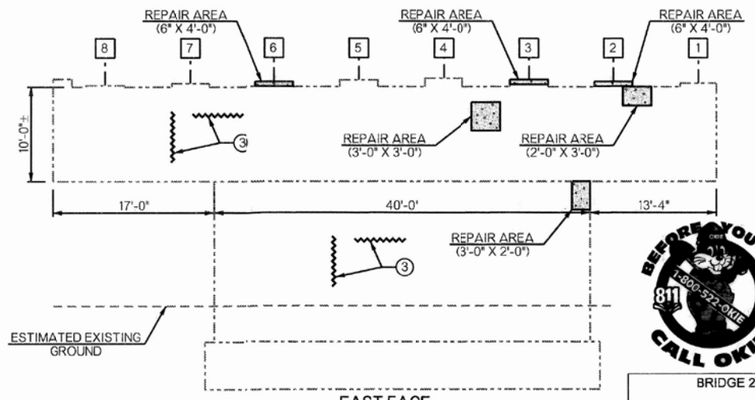


TOP FACE PLAN



NORTH END WEST FACE SOUTH END

BOTTOM FACE PLAN



EAST FACE

PIER NO. 10 REPAIR DETAILS

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

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SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

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LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 5 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

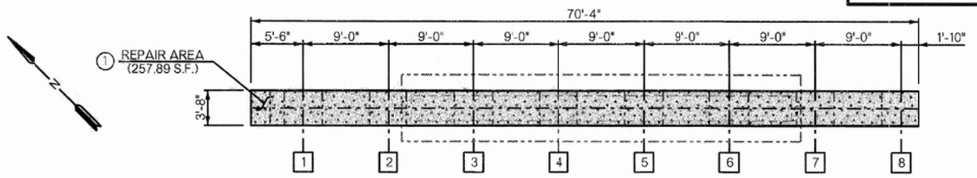
HAI 8·26
DESIGN MANAGER

CITY ENGINEER

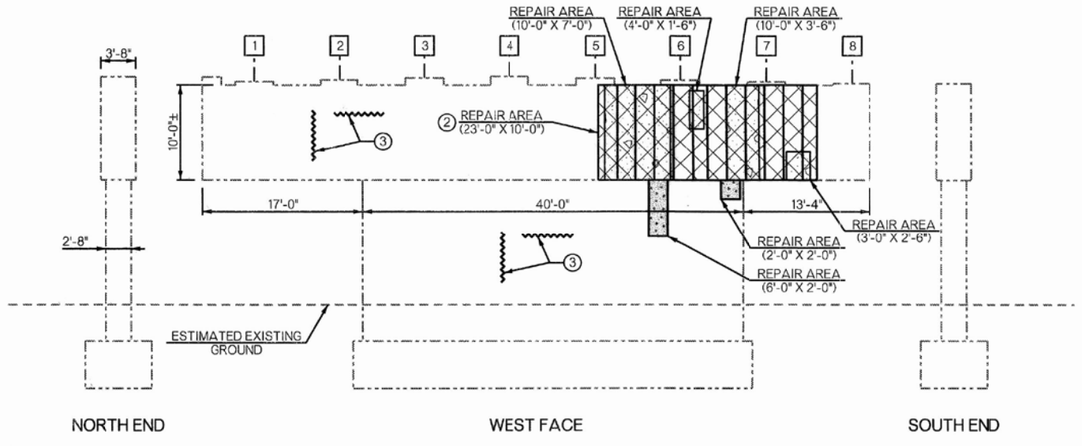
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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 20 OF 99 SHEETS

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



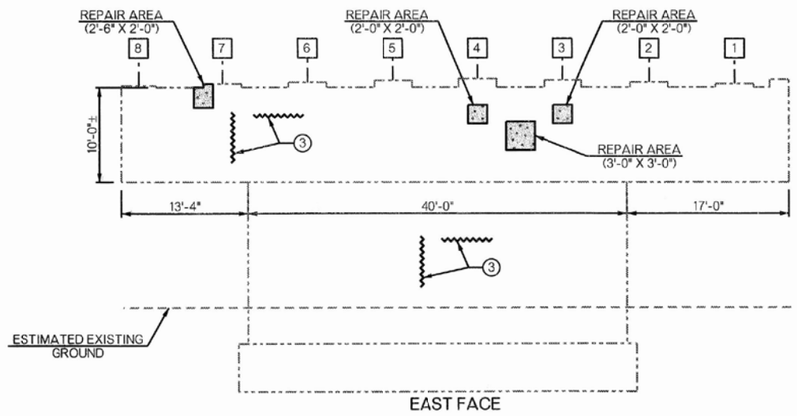
TOP FACE PLAN



NORTH END WEST FACE SOUTH END



BOTTOM FACE PLAN



EAST FACE

PIER NO. 11 REPAIR DETAILS

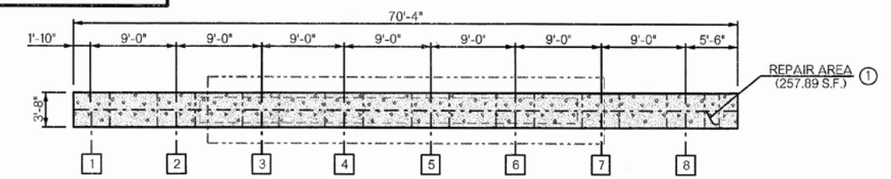
LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

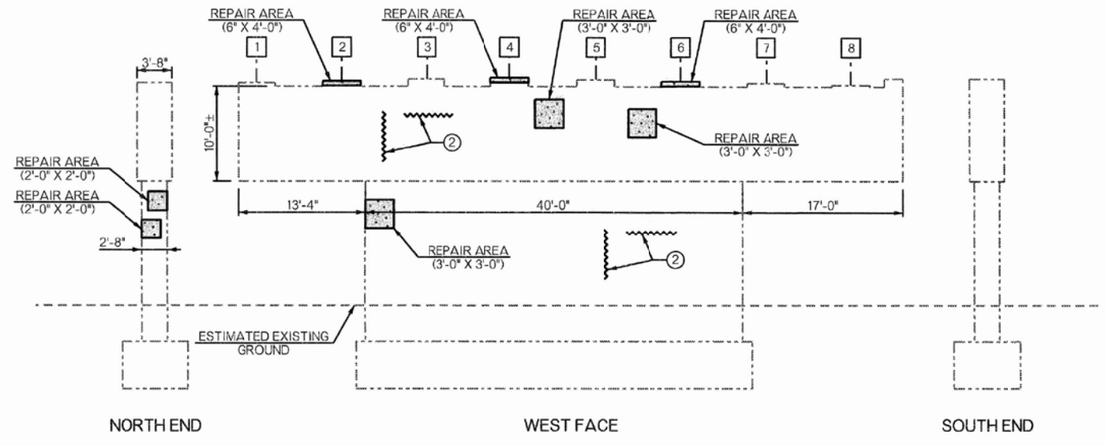
① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

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SEE SHEET NOS. 24 & 25 FOR CONCRETE SURFACE APPLICATION AND SUMMARY OF QUANTITIES.



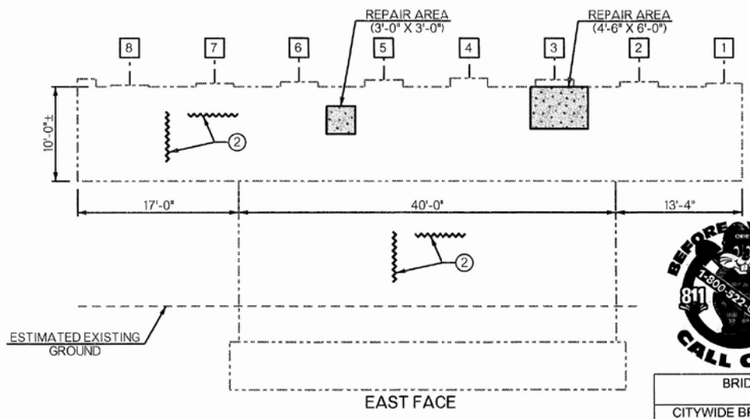
TOP FACE PLAN



NORTH END WEST FACE SOUTH END



BOTTOM FACE PLAN



EAST FACE

PIER NO. 12 REPAIR DETAILS

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
② TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 6 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 858-0107

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
DESIGN MANAGER
CITY ENGINEER

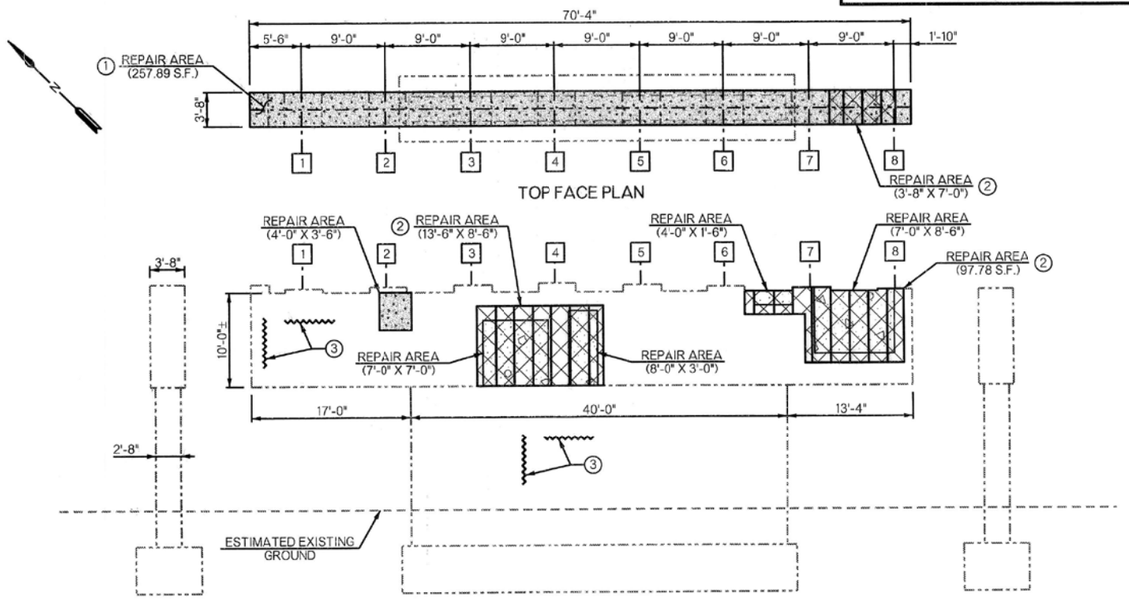
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REVISION	BY	DATE

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

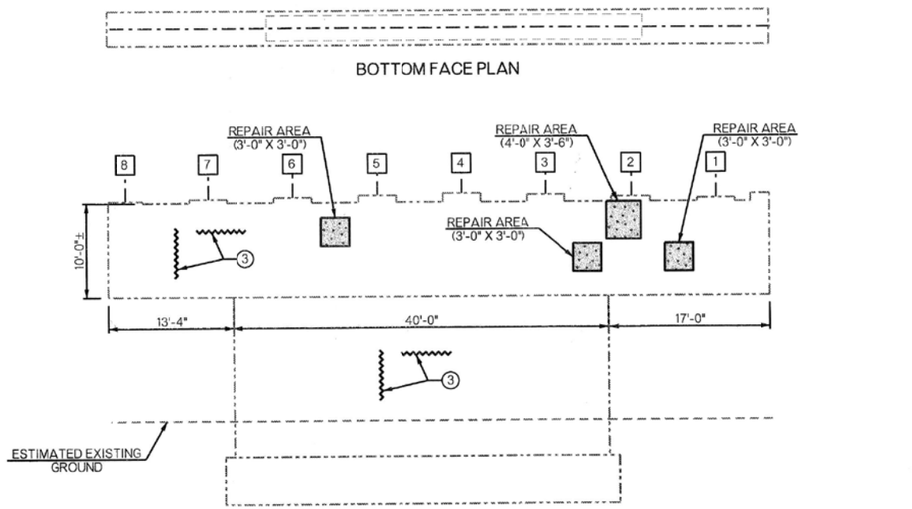


TOP FACE PLAN

NORTH END

WEST FACE

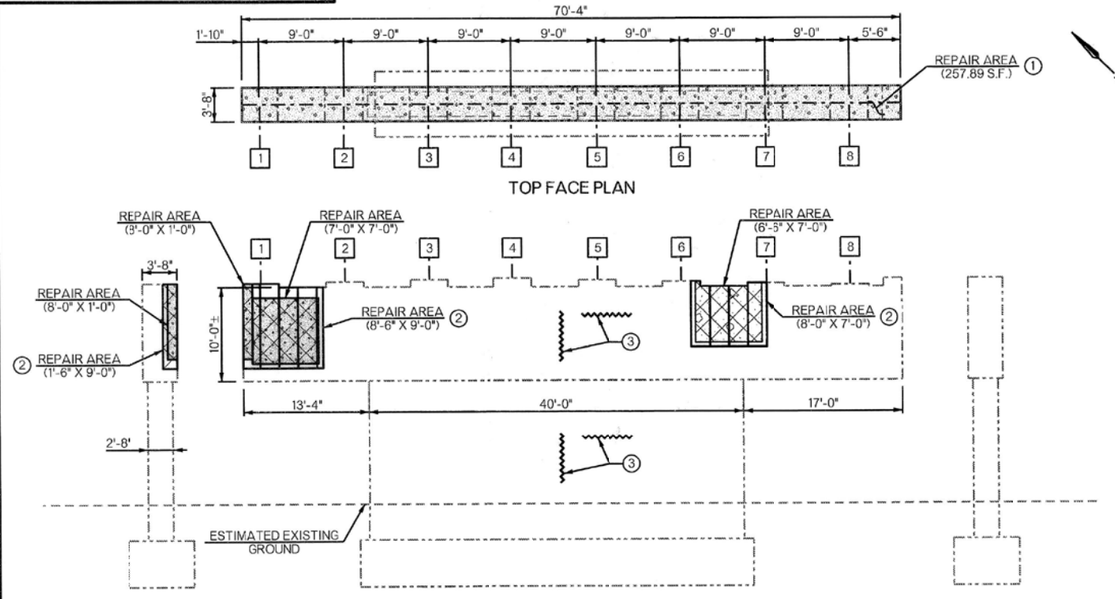
SOUTH END



BOTTOM FACE PLAN

EAST FACE

PIER NO. 13 REPAIR DETAILS

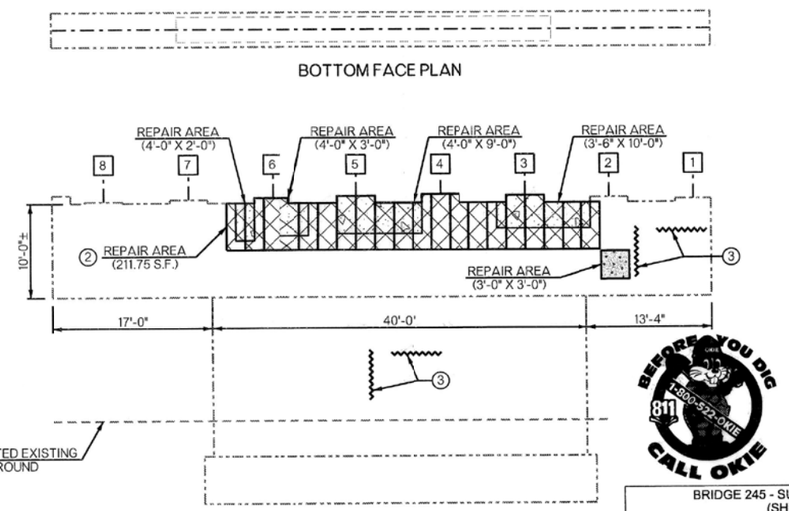


TOP FACE PLAN

NORTH END

WEST FACE

SOUTH END



BOTTOM FACE PLAN

EAST FACE

PIER NO. 14 REPAIR DETAILS

① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

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LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

ADVERTISE DATE:

REVISION	BY	DATE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 7 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	5/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

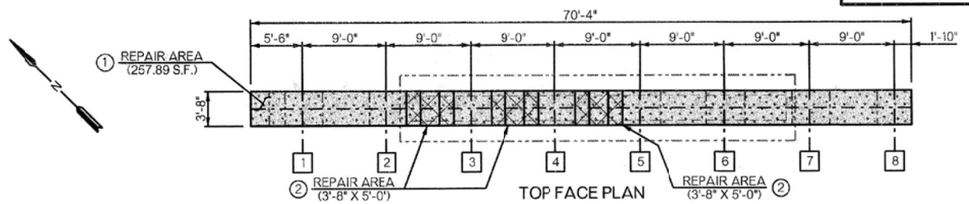
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PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER
FILE: DRAWING:
DATE: 10/12/2026
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SHEET 22 OF 99 SHEETS

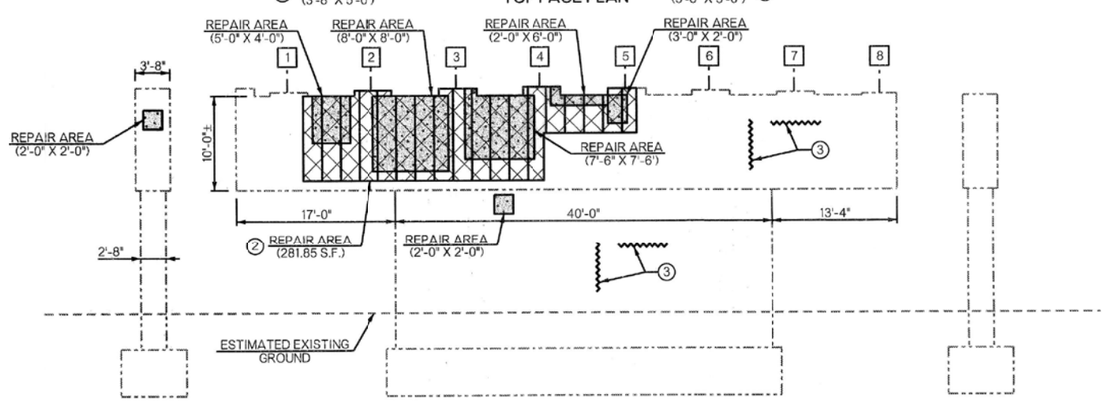
LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
22868
OKLAHOMA
7/14/26

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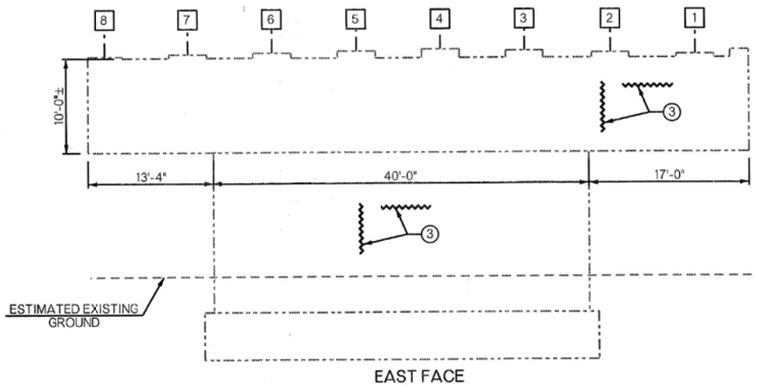
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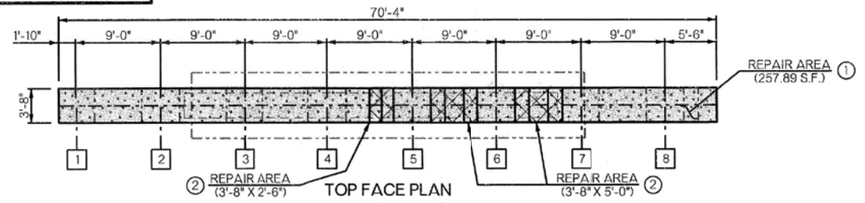


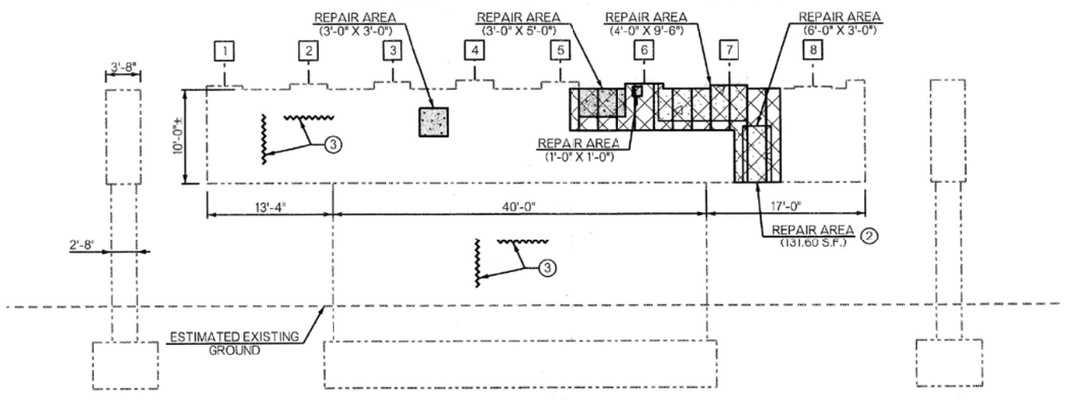




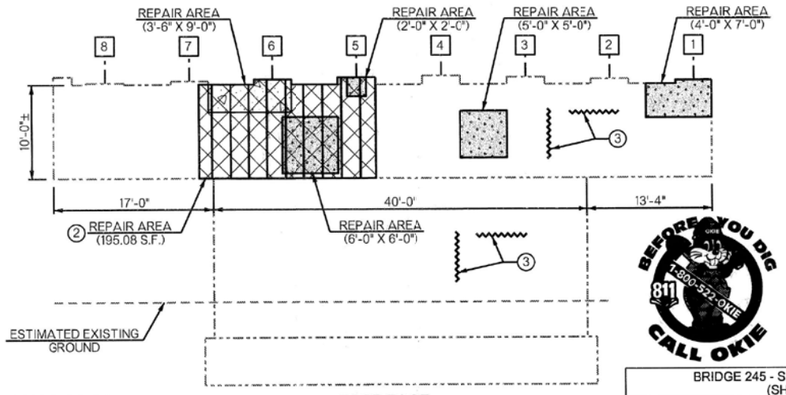


PIER NO. 15 REPAIR DETAILS









PIER NO. 16 REPAIR DETAILS

(1) REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
(2) SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
(3) TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

CLASS A CONCRETE

(SP) CARBON FIBER-REINFORCED POLYMER

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

(1) REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.
(2) SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.
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BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 8 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 858-0107

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

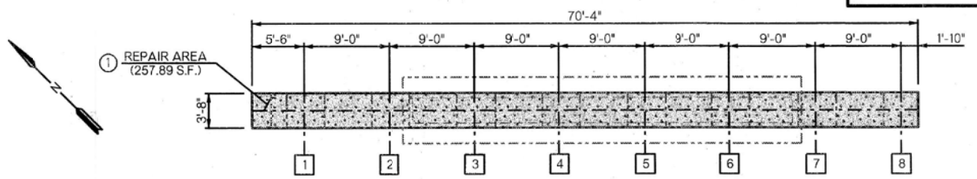
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

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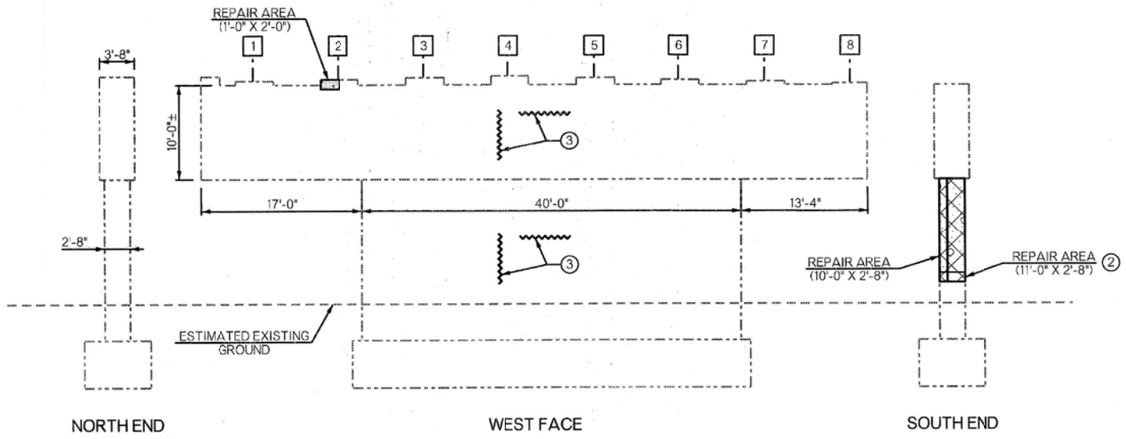
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SHEET 23 OF 99 SHEETS

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CCNDITIONS" ON SHEET NO. 2.



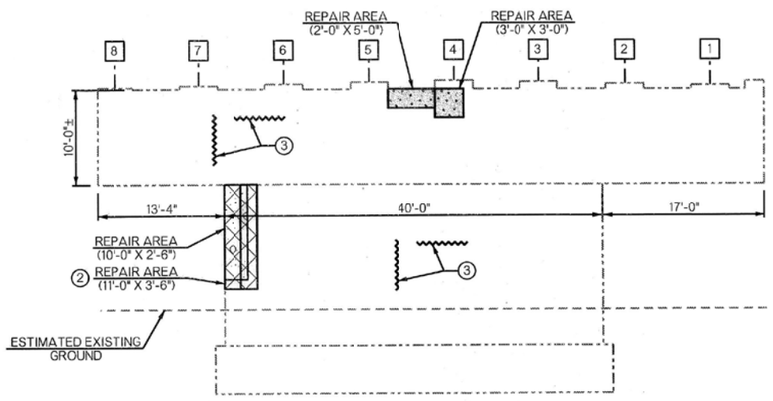
TOP FACE PLAN



NORTH END WEST FACE SOUTH END



BOTTOM FACE PLAN



EAST FACE

PIER NO. 17 REPAIR DETAILS

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

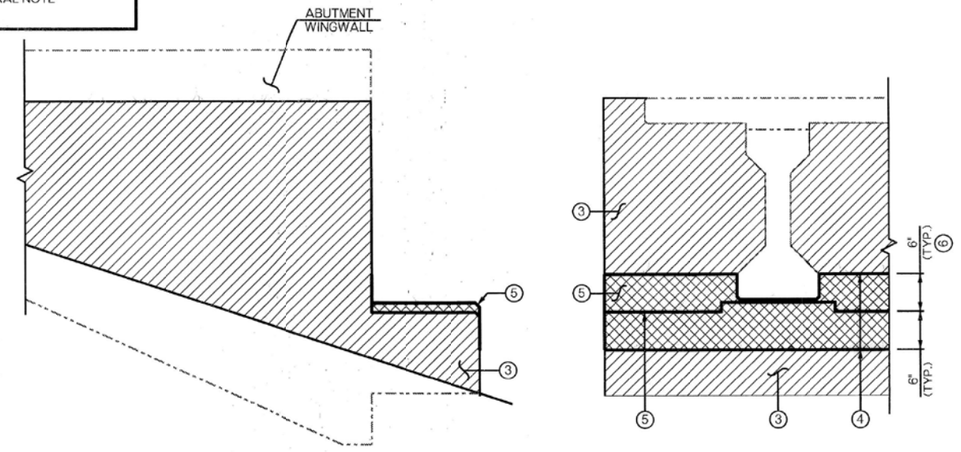
① REPAIR AREA SHOWN IS FOR THE ENTIRE FACE.

② SEE SHEET NO. 25 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

③ TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND WALL. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NO. 25 FOR SUMMARY OF QUANTITIES.



SIDE ELEVATION

ABUTMENT CONCRETE TREATMENT DETAILS

(ABUTMENT NOS. 1 & 2)

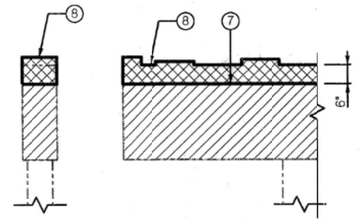
NOTE:
THE ELASTOMERIC COATING SHALL BE APPLIED TO THE ABUTMENTS AFTER THE INSTALLATION OF THE ANTI-LOITERING BLOCKS.

③ WATER REPELLENT ON THE ABUTMENT AND WINGWALL FACES TO BE PAID FOR IN ABUTMENT QUANTITIES.

④ MASK FACE OF ABUTMENT CAP ALONG THIS LINE TO PROVIDE A CLEAN STRAIGHT FINISH AT TOP AND BOTTOM OF ELASTOMERIC COATING APPLICATION. SEE ~~GENERAL NOTE~~ ON SHEET NO. 2 FOR ELASTOMERIC COATING SPECIFICATIONS. — PAY ITEM NOTE (B7)

⑤ APPLY CIM-1000 (ELASTOMERIC COATING) TO THE SURFACES INDICATED BY CROSSHATCH AND HEAVY LINES, INCLUDING THE TOP & FRONT FACES OF THE ABUTMENT CAP, PEDESTALS & BACKWALL. INCLUDED IN ABUTMENT QUANTITIES.

⑥ ELASTOMERIC COATING PLACED ON ABUTMENT BACKWALLS SHALL BE 6" HIGH OR 4" HIGHER THAN THE TALLEST PEDESTAL AND BE PARALLEL TO THE TOP OF THE ABUTMENT.



SIDE ELEVATION

LEGEND

- ELASTOMERIC COATING (CROSSHATCHING AND HEAVY LINE)
- WATER REPELLENT (HATCHING)

CONCRETE TREATMENT DETAILS AT PIER

⑦ MASK FACES OF PIER CAP ALONG THIS LINE TO PROVIDE A CLEAN STRAIGHT FINISH OF ELASTOMERIC COATING APPLICATION.

⑧ APPLY CIM-1000 (ELASTOMERIC COATING) TO THE SURFACES INDICATED BY CROSSHATCH AND HEAVY LINES, INCLUDING THE PEDESTALS & THE TOP, SIDES, FRONT, AND BACK FACES OF THE PIER CAP. INCLUDED IN PIER QUANTITIES.

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LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 9 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE. SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	8/24	APPROVED:
DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		7/26	

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SUMMARY OF QUANTITIES - PIER REPAIR

ITEM	UNIT	PIER NO. 1	PIER NO. 2	PIER NO. 3	PIER NO. 4	PIER NO. 5	PIER NO. 6	PIER NO. 7	PIER NO. 8	PIER NO. 9	PIER NO. 10	PIER NO. 11	PIER NO. 12	PIER NO. 13	PIER NO. 14	PIER NO. 15	PIER NO. 16	PIER NO. 17	TOTAL
CLASS A CONCRETE	CY	-	2.00	-	2.00	2.00	2.00	-	-	2.00	2.00	2.00	-	2.00	2.00	-	2.00	1.00	21.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	158.00	2,686.00
ELASTOMERIC COATING	SF	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	410.00	6,970.00
PREPARATION OF CRACKS, ABOVE WATER	LF	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	1,020.00
EPOXY RESIN, ABOVE WATER	GAL	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	34.00
PNEUMATICALLY PLACED MORTAR	SY	22.00	20.00	24.00	24.00	25.00	23.00	25.00	25.00	27.00	21.00	22.00	25.00	23.00	24.00	31.00	28.00	21.00	410.00
(SP) CARBON FIBER-REINFORCED POLYMER	SF	-	302.00	54.00	286.00	275.00	263.00	114.00	112.00	414.00	428.00	276.00	-	269.00	416.00	388.00	427.00	79.00	4,103.00
CORROSION INHIBITOR(SURFACE APPLIED)	SY	22.00	35.00	24.00	34.00	37.00	36.00	25.00	25.00	42.00	38.00	36.00	25.00	39.00	40.00	31.00	38.00	27.00	554.00
(PL)REPAIR BRIDGE ITEMS	SY	22.00	20.00	24.00	24.00	25.00	23.00	25.00	25.00	27.00	21.00	22.00	25.00	23.00	24.00	31.00	28.00	21.00	410.00

SUMMARY OF QUANTITIES - ABUTMENT REPAIR

ITEM	UNIT	ABUTMENT NO. 1	ABUTMENT NO. 2	TOTAL
CLSM BACKFILL	CY	3.00	-	3.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	62.00	62.00	124.00
ELASTOMERIC COATING	SF	294.00	294.00	588.00
PREPARATION OF CRACKS, ABOVE WATER	LF	80.00	50.00	130.00
EPOXY RESIN, ABOVE WATER	GAL	3.00	2.00	5.00
(PL)INSTALLATION OF BRIDGE ITEMS	EA	24.00	24.00	48.00

NOTES:

INSTALLATION OF THE CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED PER THE MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.

BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER AND CORROSION INHIBITOR, THE CONTRACTOR SHALL REMOVE ALL UNSOUND CONCRETE FROM THE PIER CAPS AND PIER WALL. AFTER REMOVAL OF UNSOUND CONCRETE, EXPOSED REINFORCING STEEL SHALL BE CLEANED AND CORROSION SHALL BE REMOVED.

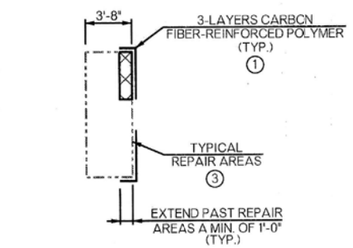
ALL COSTS OF THE CARBON FIBER-REINFORCED POLYMER INCLUDING ALL THREE (3) LAYERS OF MATERIAL, EPOXY, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "(SP) CARBON FIBER-REINFORCED POLYMER".

(1) CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED TO THE AREAS SHOWN IN THREE (3) LAYERS. THE FIRST AND THIRD LAYERS SHALL BE APPLIED IN A HORIZONTAL PATTERN. THE SECOND LAYER SHALL BE APPLIED IN A VERTICAL PATTERN.

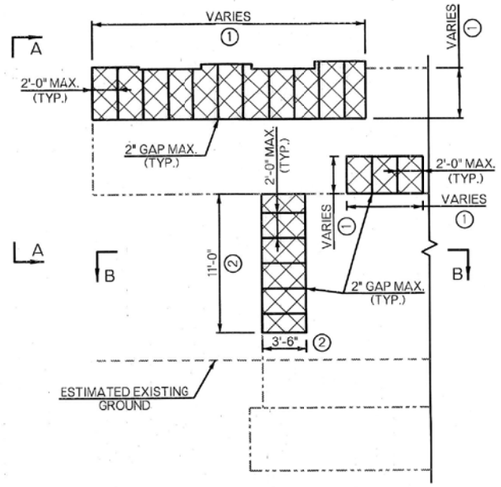
(3) BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER AND CORROSION INHIBITOR, THE CONTRACTOR SHALL PERFORM CONCRETE REPAIRS IN ACCORDANCE TO SECTION 520, 521, OR 701 OF THE STANDARD SPECIFICATIONS.

LEGEND

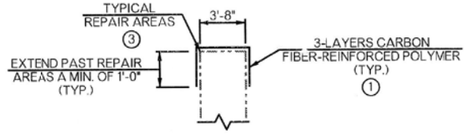
(SP) CARBON FIBER-REINFORCED POLYMER



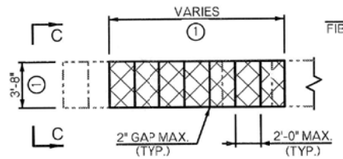
SECTION A-A
(TYPICAL REPAIR AREA SHOWN)



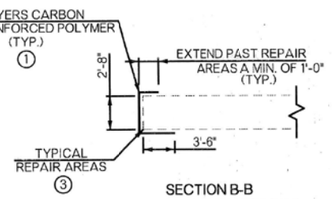
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SECTION C-C
(TYPICAL REPAIR AREA SHOWN)



PLAN



SECTION B-B
(ONLY APPLICABLE AT PIER NO. 17 SOUTH & EAST FACES)

(2) ONLY APPLICABLE AT PIER NO. 17 EAST FACE

PIER REPAIRS USING CARBON FIBER-REINFORCED POLYMER
(TYPICAL REPAIR AREA SHOWN)

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BRIDGE 245 - SUBSTRUCTURE REPAIRS
(SHEET 10 OF 10)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

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DESIGNED	JMH	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

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OKLAHOMA

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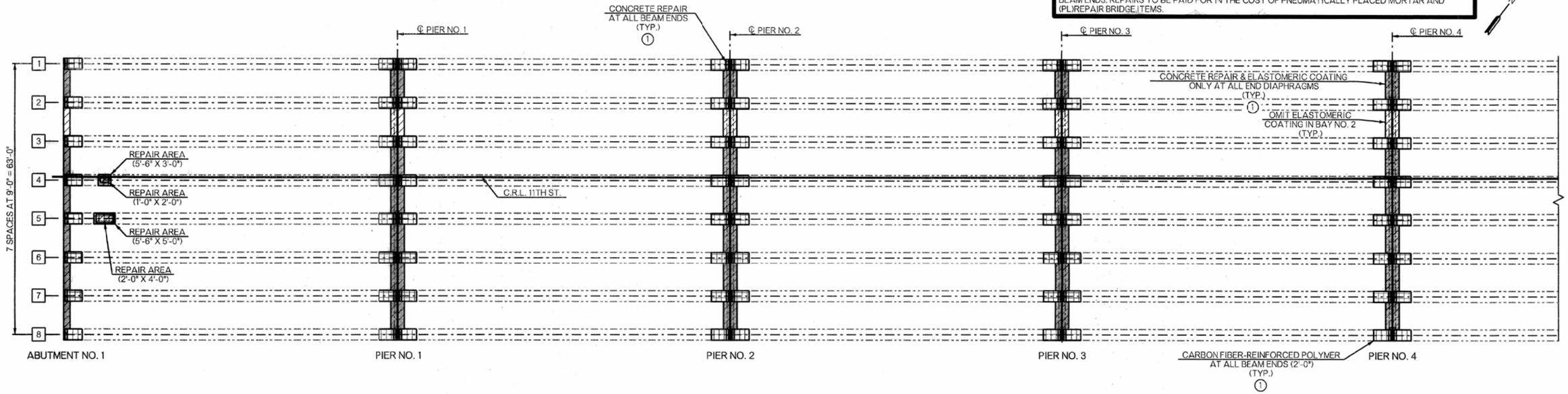
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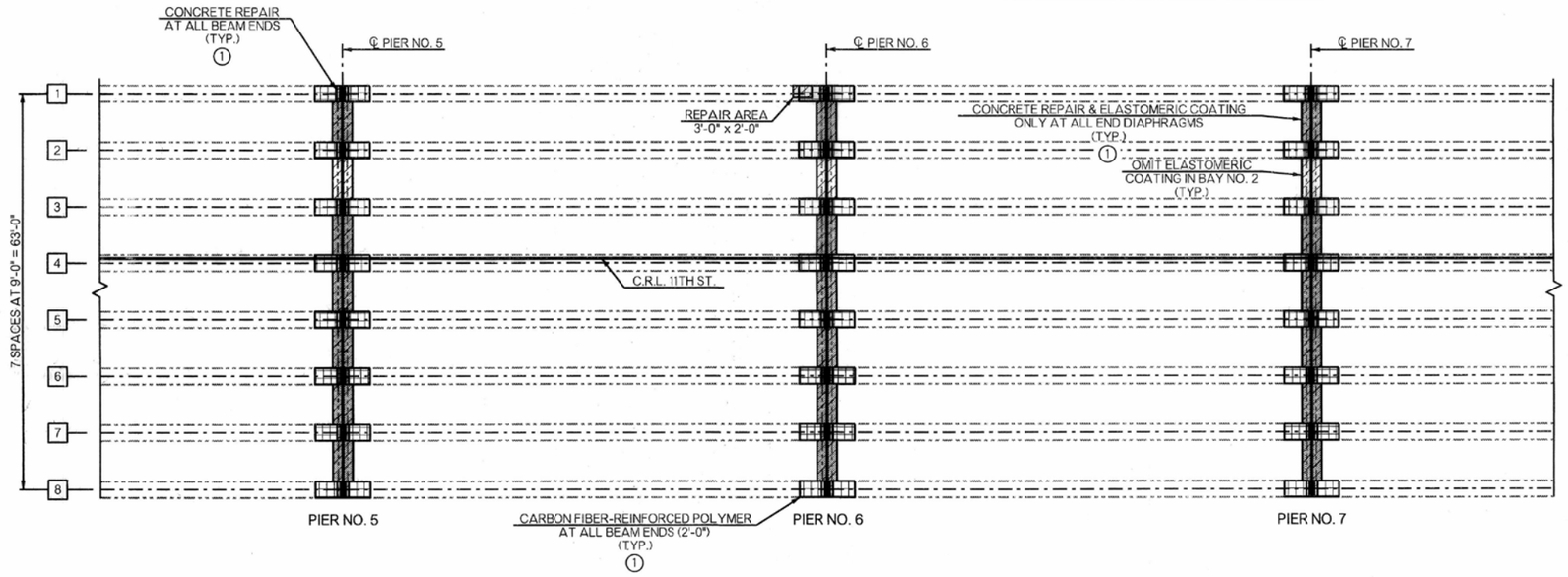
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NOTES:
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IN ADDITION TO THE SPECIFIC REPAIR LOCATIONS IDENTIFIED, A TOKEN QUANTITY AMOUNT HAS BEEN INCLUDED TO ACCOUNT FOR ANY UNFORSEEN REPAIR AREAS TO THE END DIAPHRAGMS & BEAM ENDS. REPAIRS TO BE PAID FOR IN THE COST OF PNEUMATICALLY PLACED MORTAR AND (PL)REPAIR BRIDGE ITEMS.



BEAM REPAIR PLAN - SPAN NOS. 1 - 5



BEAM REPAIR PLAN - SPAN NOS. 5 - 8

LEGEND

- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER
- ELASTOMERIC COATING

① SEE SHEET NO. 28 FOR BEAM CONRETE REPAIR, ELASTOMERIC COATING, AND CARBON FIBER-REINFORCED POLYMER DETAILS.

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BRIDGE 245 - SUPERSTRUCTURE REPAIRS (SHEET 1 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
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6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

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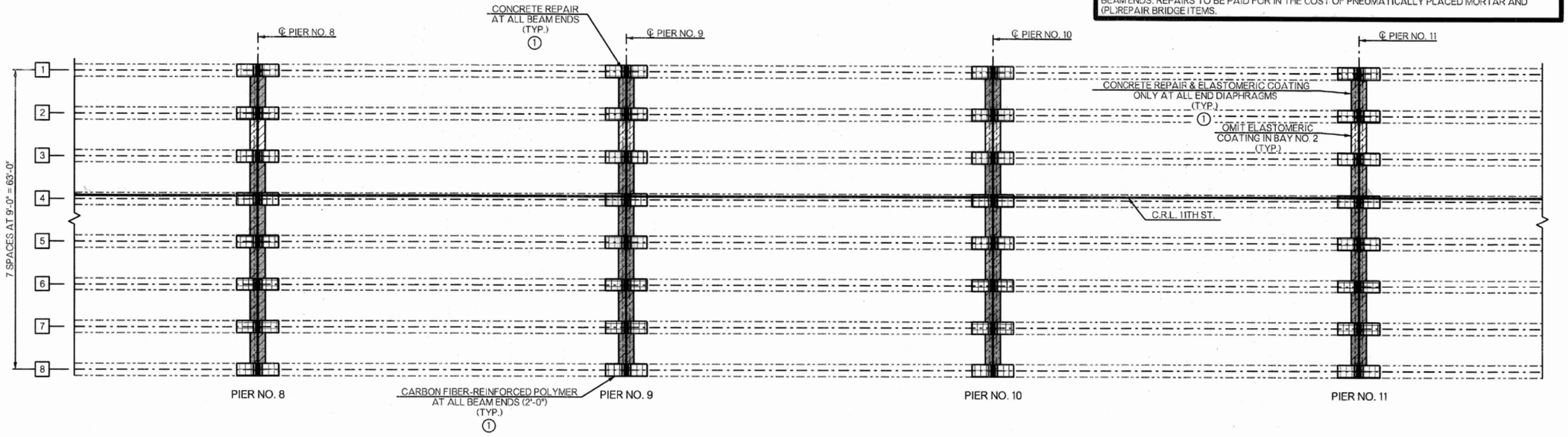
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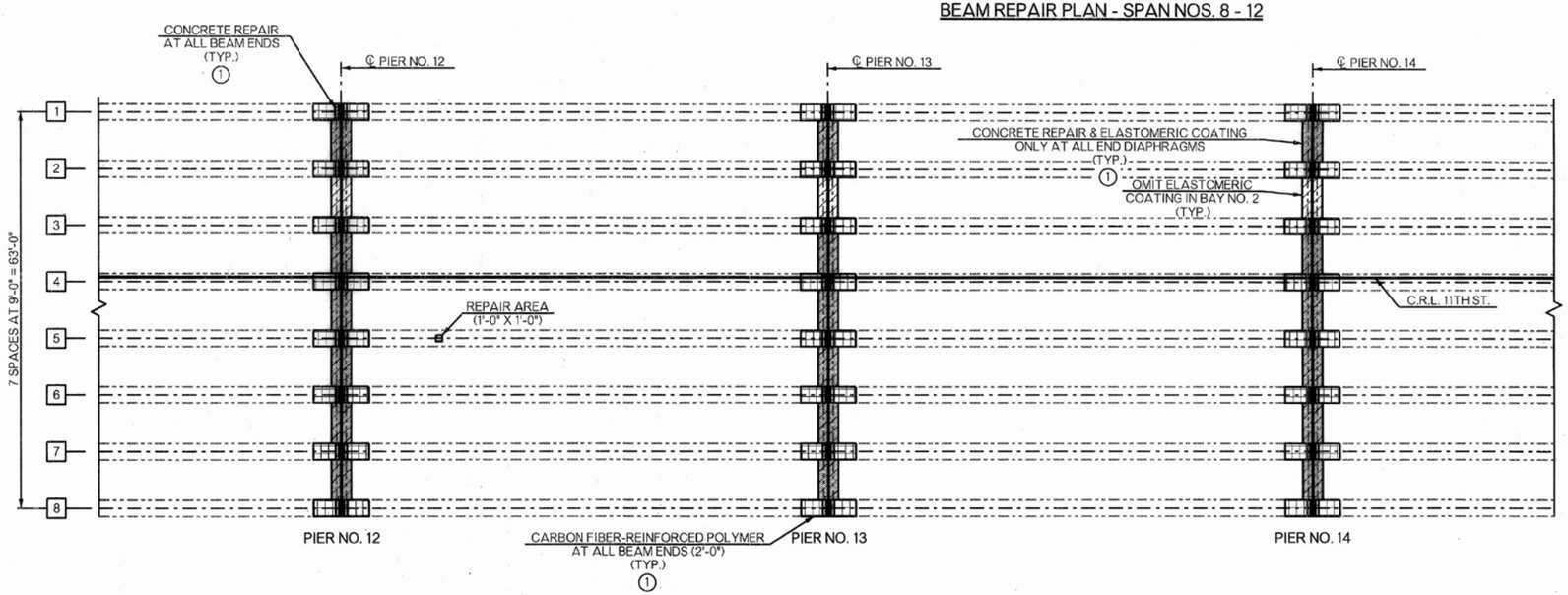
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BEAM REPAIR PLAN - SPAN NOS. 8 - 12



BEAM REPAIR PLAN - SPAN NOS. 12 - 15

LEGEND

- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER
- ELASTOMERIC COATING

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BRIDGE 245 - SUPERSTRUCTURE REPAIRS
(SHEET 2 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

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DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER — Bradley Randal Thompson — 22868 — OKLAHOMA — 7/14/26

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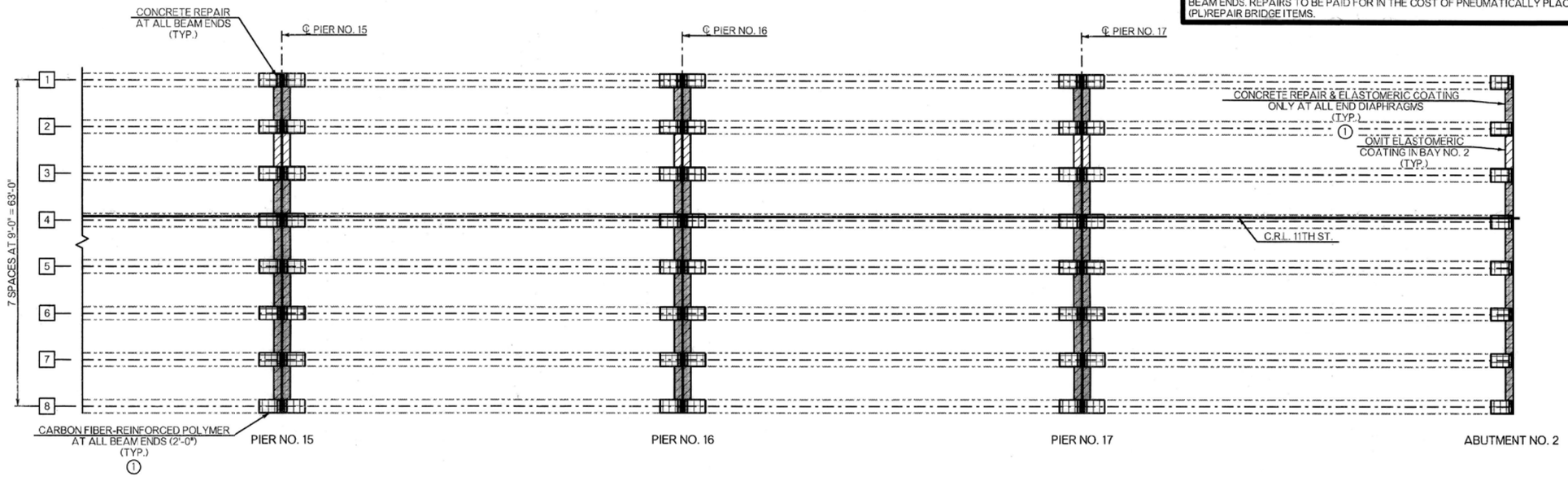
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SOFFIT REPAIRS ARE ANTICIPATED, BUT SPECIFIC LOCATIONS AND DETAILS ARE CURRENTLY UNKNOWN. A TOKEN QUANTITY HAS BEEN INCLUDED TO COVER THIS ESTIMATED WORK. PAYMENT FOR THESE REPAIRS ARE TO BE PAID FOR IN THE COST OF (PL)REPAIR BRIDGE ITEMS (TYPE A).

IN ADDITION TO THE SPECIFIC REPAIR LOCATIONS IDENTIFIED, A TOKEN QUANTITY AMOUNT HAS BEEN INCLUDED TO ACCOUNT FOR ANY UNFORSEEN REPAIR AREAS TO THE END DIAPHRAGMS & BEAM ENDS. REPAIRS TO BE PAID FOR IN THE COST OF PNEUMATICALLY PLACED MORTAR AND (PL)REPAIR BRIDGE ITEMS.



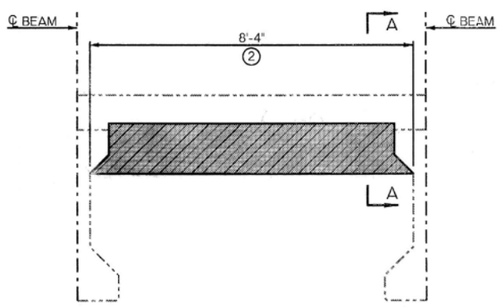
BEAM REPAIR PLAN - SPAN NOS. 15 - 18

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

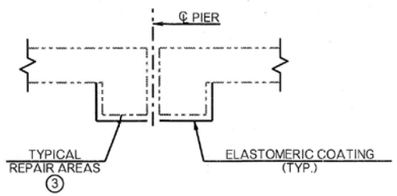
INSTALLATION OF THE CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED PER THE MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.

BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER (WHERE APPLICABLE) AND CORROSION INHIBITOR, THE CONTRACTOR SHALL REMOVE ALL UNSOUND CONCRETE FROM THE BEAM ENDS AND END DIAPHRAGMS. AFTER REMOVAL OF UNSOUND CONCRETE, EXPOSED REINFORCING STEEL SHALL BE CLEANED AND CORROSION SHALL BE REMOVED.

ALL COSTS OF THE CARBON FIBER-REINFORCED POLYMER INCLUDING ALL THREE (3) LAYERS OF MATERIAL, EPOXY, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "(SP) CARBON FIBER-REINFORCED POLYMER".

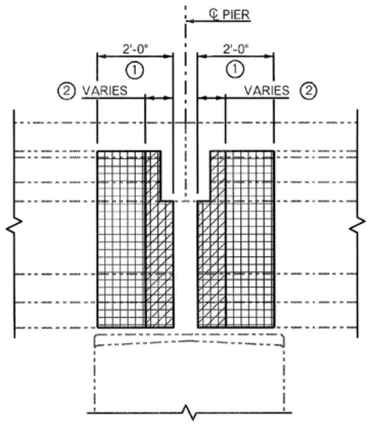


END DIAPHRAGM REPAIR - ELEVATION
(APPLICABLE AT ALL BAYS EXCEPT BAY 2)

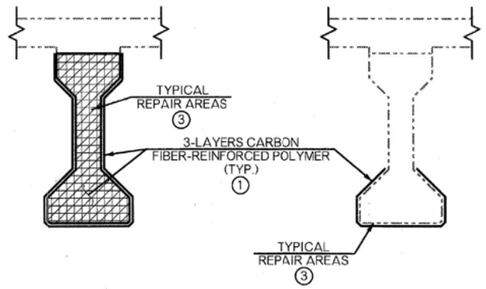


SECTION A-A
(APPLICABLE AT ALL BAYS EXCEPT BAY 2)

END DIAPHRAGM REPAIR DETAILS
(CONCRETE REPAIR, CRACK REPAIR, CORROSION INHIBITOR & ELASTOMERIC COATING)



ELEVATION
(APPLY CARBON-FIBER REINFORCED POLYMER TO ALL BEAM ENDS)



END VIEW

SECTION THROUGH BEAM
(APPLICABLE AT BEAMS 4 & 5 IN SPAN NO. 1)

P.C. BEAM REPAIR DETAILS
(CONCRETE REPAIR, CRACK REPAIR, CORROSION INHIBITOR, & CARBON FIBER-REINFORCED POLYMER)

LEGEND

- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER
- ELASTOMERIC COATING

① CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED TO BOTH SIDES AND THE FACE OF THE BEAM ENDS IN THREE (3) LAYERS. THE FIRST AND THIRD LAYERS SHALL BE APPLIED IN A HORIZONTAL PATTERN. THE SECOND LAYER SHALL BE APPLIED IN A VERTICAL PATTERN.

② PERFORM CONCRETE REPAIRS AND APPLY CORROSION INHIBITOR TO ALL BEAM ENDS & END DIAPHRAGMS WHERE APPLICABLE.

③ BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER (WHERE APPLICABLE) AND CORROSION INHIBITOR, THE CONTRACTOR SHALL PERFORM CONCRETE REPAIRS IN ACCORDANCE TO SECTION 520, 521, OR 701 OF THE STANDARD SPECIFICATIONS.

BEFORE YOU DIG 811 1800-522 OKIE CALL OKIE

BRIDGE 245 - SUPERSTRUCTURE REPAIRS
(SHEET 3 OF 3)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

			APPROVED:
DRAWN	DSP	9/24	
DESIGNED	JMH	1/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAL 8-21-26
DESIGN MANAGER
CITY ENGINEER

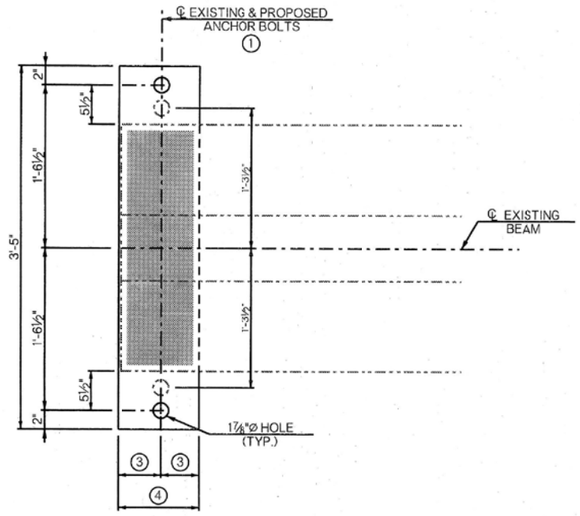
LICENSED PROFESSIONAL ENGINEER Bradley Ronald Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

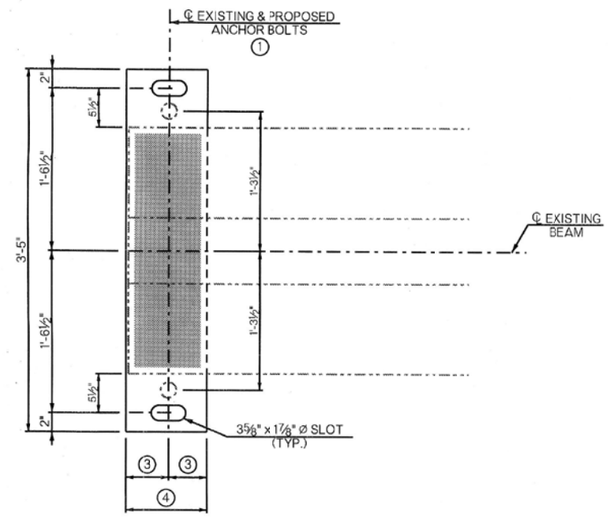
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ATLAS PAGE NO. 5, 16, 34, 35
SHEET 28 OF 99 SHEETS

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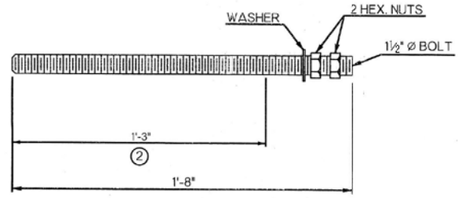
INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



FIXED BEARING PLAN



EXPANSION BEARING PLAN



DRILLED AND EPOXY ANCHOR BOLT DETAIL

BEARING REPLACEMENT SCHEDULE			
LOCATION		TYPE	BRG. NO. ③
PIER NO. 3	BACK STA.	EXPANSION	1 - 8
	FORWARD STA.	EXPANSION	1 - 8
PIER NO. 5	BACK STA.	EXPANSION	1 - 6
	FORWARD STA.	EXPANSION	1 - 6
PIER NO. 7	BACK STA.	EXPANSION	2 - 6
	FORWARD STA.	EXPANSION	2 - 6
PIER NO. 8	BACK STA.	FIXED	2 & 3
	FORWARD STA.	FIXED	2 & 3
PIER NO. 9	BACK STA.	EXPANSION	2 - 5
	FORWARD STA.	EXPANSION	5
PIER NO. 11	FORWARD STA.	EXPANSION	6
PIER NO. 12	BACK STA.	FIXED	4 & 6
	FORWARD STA.	FIXED	4 & 6
PIER NO. 14	BACK STA.	FIXED	1 - 8
	FORWARD STA.	FIXED	1 - 8
PIER NO. 17	BACK STA.	EXPANSION	1 - 8
	FORWARD STA.	EXPANSION	1 - 8

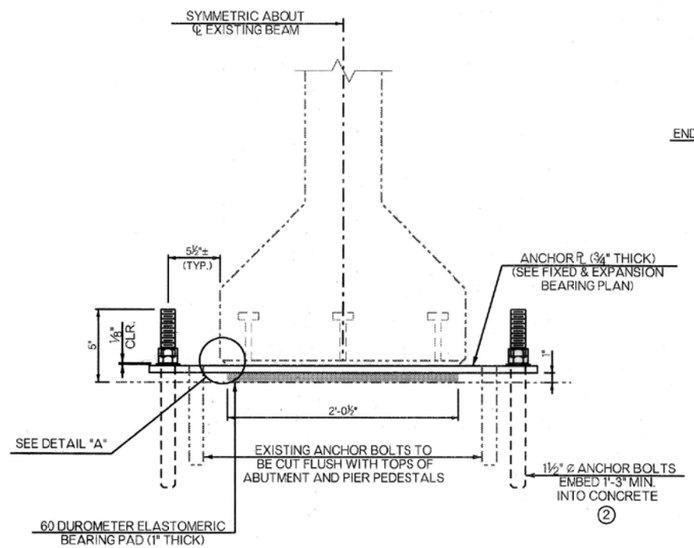
③ EXACT LOCATION OF BEARING REPLACEMENTS SHALL BE DETERMINED IN THE FIELD BY THE CITY OF TULSA INSPECTOR OR WHEN THE SECTION LOSS EXCEEDS 25%.

NOTES:
BEARING REPLACEMENTS SHALL OCCUR AFTER THE SUBSTRUCTURE REPAIRS HAVE BEEN MADE AND BEFORE THE SUPERSTRUCTURE REPAIRS ARE MADE.

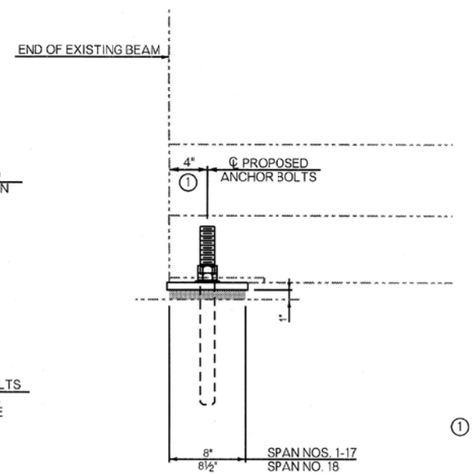
PAYMENT WILL BE MADE ONLY FOR THE ACTUAL NUMBER OF BEARINGS REPLACED.

③ 4.25" FOR SPAN NOS. 1-17.
4.5" FOR SPAN NO. 18.

④ 8.5" FOR SPAN NOS. 1-17.
9" FOR SPAN NO. 18.

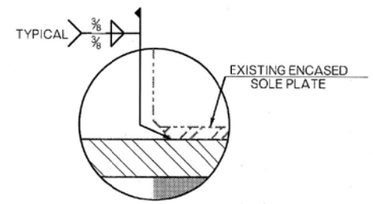


END VIEW



SIDE VIEW

DETAILS OF NEW BEARING ASSEMBLIES



DETAIL "A"

NOTES:
THE EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH WITH THE TOPS OF THE EXISTING ABUTMENT OR PIER CAPS.

ALL COSTS OF THE REMOVAL OF EXISTING BEARING ASSEMBLIES INCLUDING THE CUTTING OF EXISTING ANCHOR BOLTS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "REMOVAL OF BRIDGE ITEMS".

PROVIDE STRUCTURAL STEEL FOR ANCHOR PLATES IN ACCORDANCE WITH ASTM A240 (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). FOR ANCHOR BOLTS, PROVIDE CONTINUOUSLY THREADED BARS IN ACCORDANCE WITH ASTM A320, CLASS 2, GRADE B8M (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). USE AUSTENITIC STAINLESS STEEL NUTS AND WASHERS CONFORMING TO ASTM A194, GRADE 8M AND ASTM A320, RESPECTIVELY. PERFORM ALL WELDING CONSISTENT WITH PROCEDURES FOR STAINLESS STEEL.

① NO EXISTING REINFORCING BARS IN THE EXISTING ABUTMENT OR PIER CAPS SUPPORTING THE BEARING SHALL BE CUT DURING THE INSTALLATION OF THE ANCHOR BOLTS. THE LOCATION OF THE ANCHOR BOLTS MAY BE ADJUSTED TO ACCOMMODATE THIS REQUIREMENT. HOWEVER, THE ANCHOR BOLTS SHALL BE SET AS CLOSE TO THE ℄ PROPOSED ANCHOR BOLTS AS POSSIBLE.

② ACTUAL EMBEDMENT LENGTH FOR DRILLED AND EPOXY ANCHORS SHALL BE DETERMINED BY THE ANCHORAGE ASSEMBLY MANUFACTURER AND APPROVED BY THE ENGINEER. SEE SHEET NO. 3 FOR ADDITIONAL REQUIREMENTS.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 245 - BEARING DETAILS
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11th ST./SW BLVD. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DJG	9/24	APPROVED:
DESIGNED	JMH	1/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

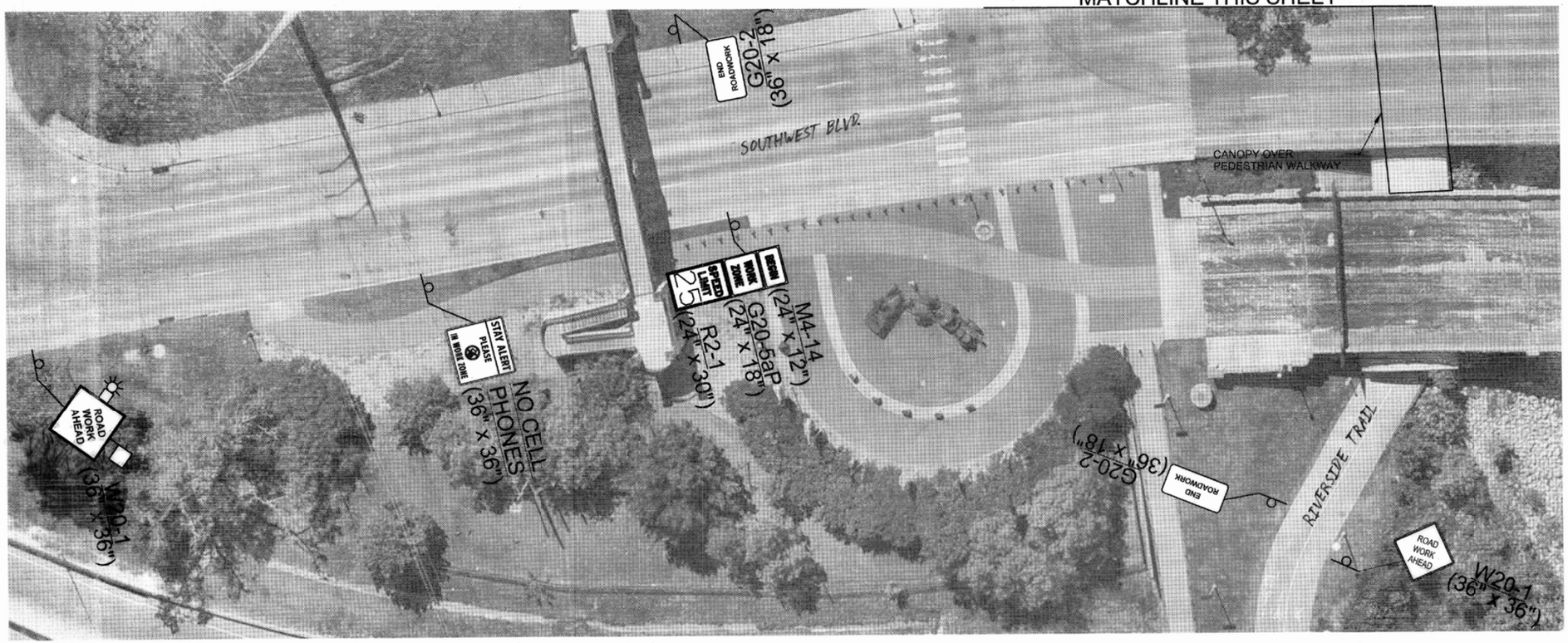
LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 7/14/26 — 22868 — OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 29 OF 99 SHEETS

S.JLeach 5/19/2026 10:13:03
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MATCHLINE THIS SHEET



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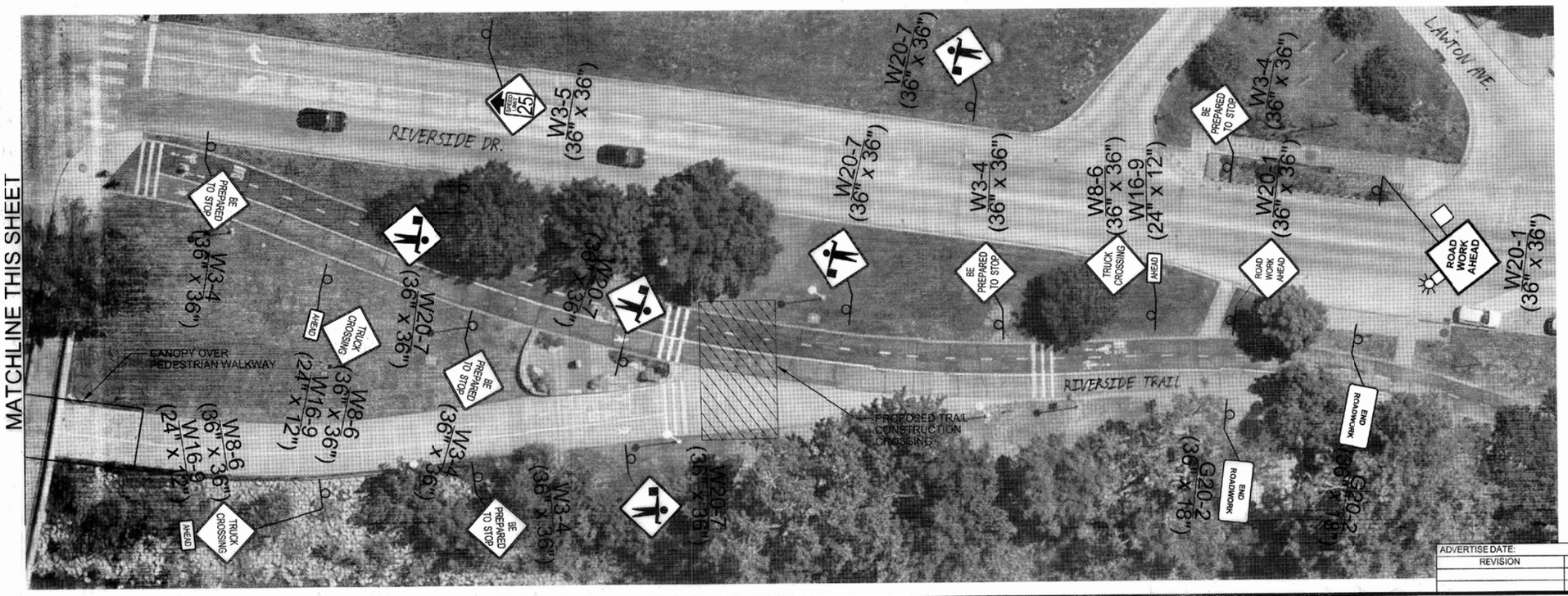
SCALE: 1" = 20'

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

NOTE:
THE TRAIL SHALL REMAIN OPEN. PEDESTRIAN PROTECTION SHALL BE PROVIDED WHEN WORK IS BEING PERFORMED IN THE VICINITY OF THE TRAIL.

MATCHLINE THIS SHEET



20 10 0 20 40 60

SCALE: 1" = 20'

BEFORE YOU DIG 811 1800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 16726 OKLAHOMA

BRIDGE 245 - TRAFFIC CONTROL
PHASE 1 (SHEET 1 OF 1)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11TH ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	JHL	12/24	APPROVED:
DESIGNED	HLT	12/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

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

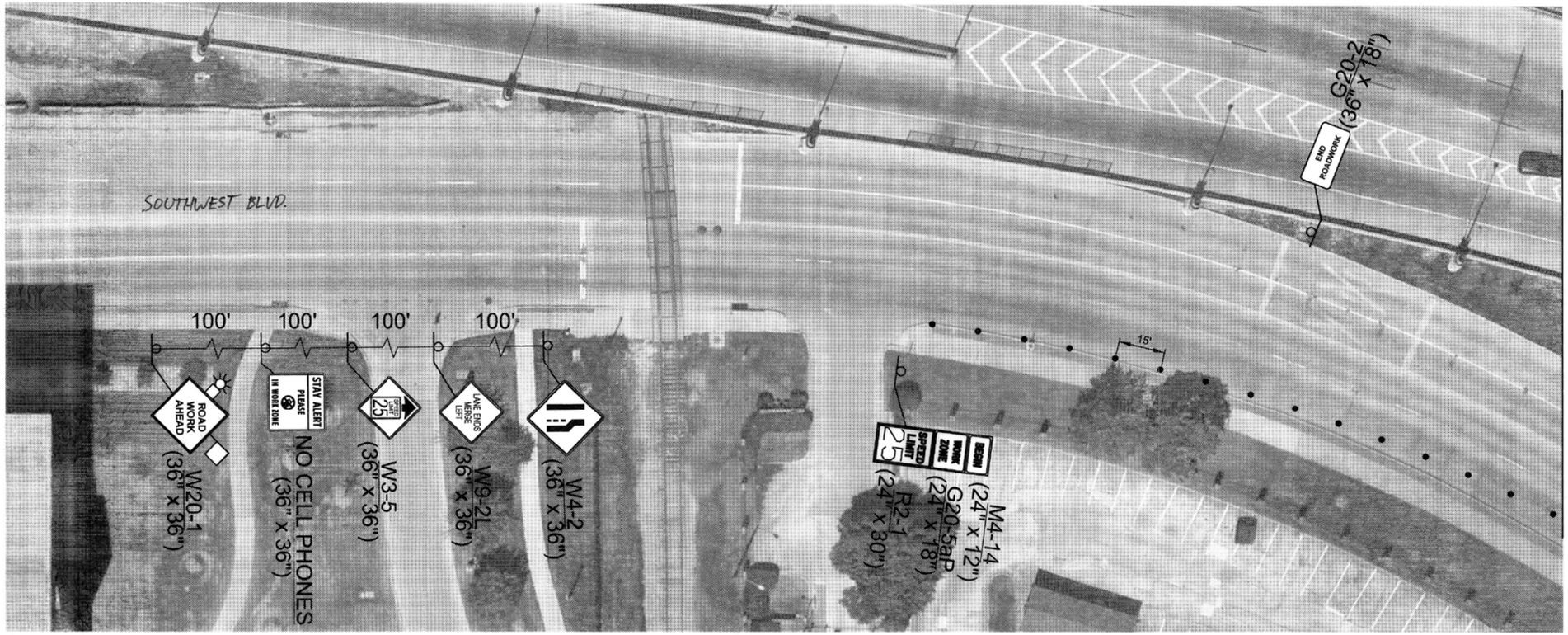
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8.26
DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 6/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 30 OF 99 SHEETS

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MATCHLINE THIS SHEET

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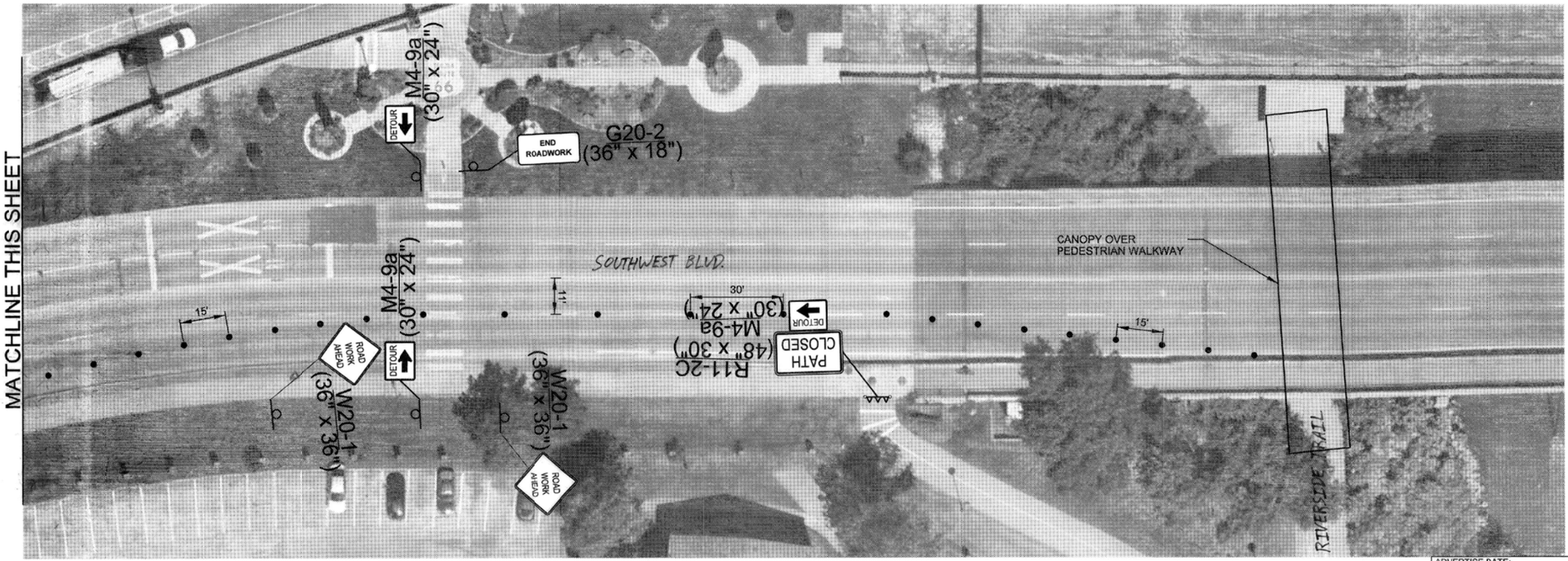
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LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

NOTE:
THE TRAIL SHALL REMAIN OPEN. PEDESTRIAN PROTECTION SHALL BE PROVIDED WHEN WORK IS BEING PERFORMED IN THE VICINITY OF THE TRAIL.



MATCHLINE THIS SHEET

20 10 0 20 40 60

SCALE: 1" = 20'

N

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 6-26-26 33772 OKLAHOMA

BRIDGE 245 - TRAFFIC CONTROL
PHASE 2 (SHEET 1 OF 2)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11TH ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (913) 250-5922
Fax: (918) 858-0107

DRAWN	JHL	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.	[illegible]	8/26

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

RECOMMENDED:

HAS 8.26
DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:

REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 31 OF 99 SHEETS

$$USER$$ $$DATE$$ $$TIME$$
WORKSPACE=$$WORKSPACE$$
$$FILE$$

20 10 0 20 40 60

SCALE: 1" = 20'

MATCHLINE THIS SHEET

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

NOTE:
THE TRAIL SHALL REMAIN OPEN. PEDESTRIAN PROTECTION SHALL BE PROVIDED WHEN WORK IS BEING PERFORMED IN THE VICINITY OF THE TRAIL.

20 10 0 20 40 60

SCALE: 1" = 20'

BEFORE YOU DIG 811 1800-522-6543 CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 33772 OKLAHOMA

BRIDGE 245 - TRAFFIC CONTROL
PHASE 2 (SHEET 2 OF 2)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 11TH ST./SW BLVD. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	JHL	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

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

RECOMMENDED:

DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:

DATE: 10/2/2026

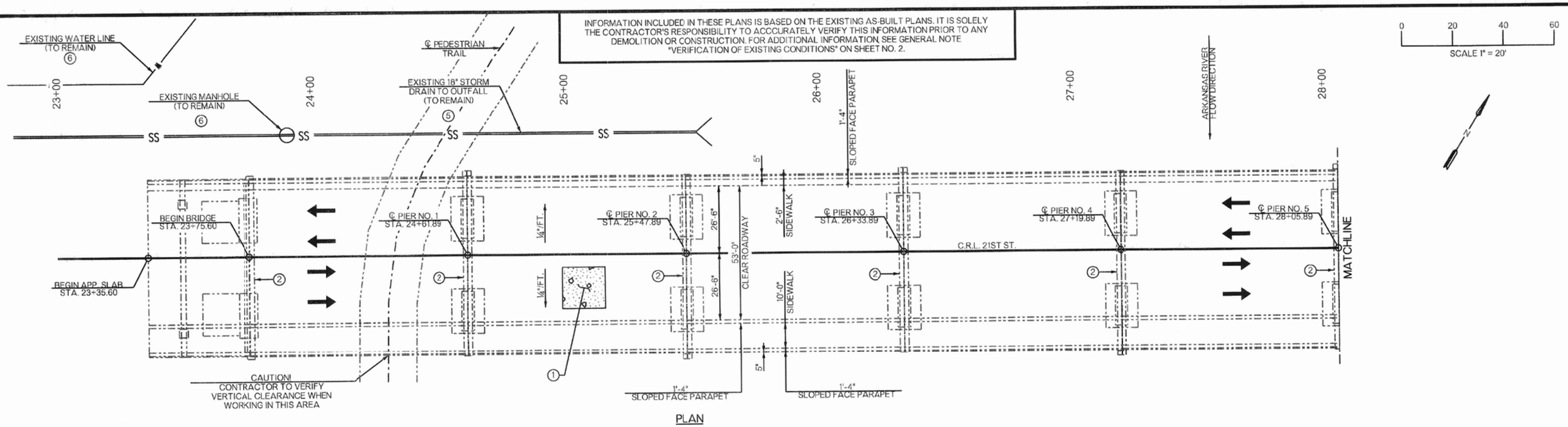
ATLAS PAGE NO. 5, 16, 34, 35

SHEET 32 OF 99 SHEETS

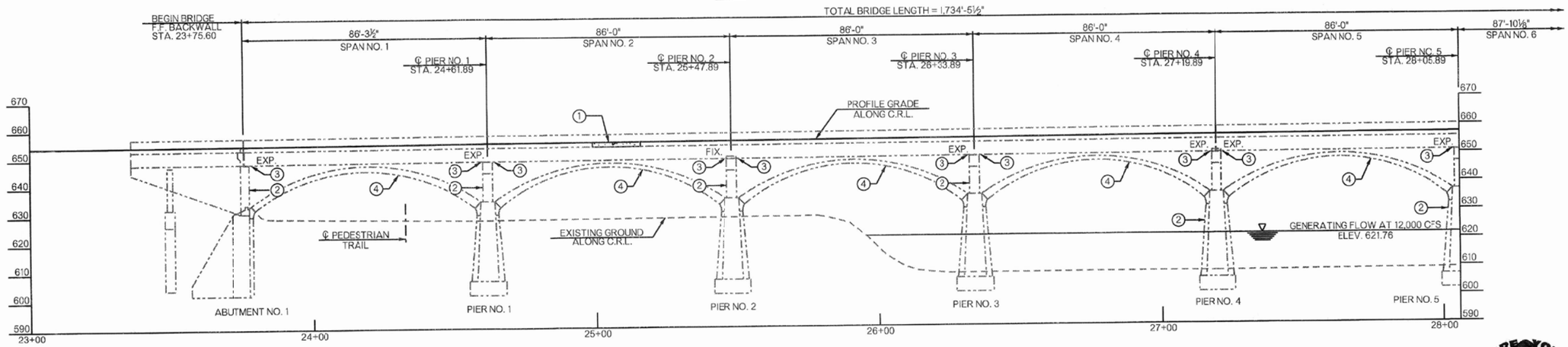
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$$WORKSPACE-$$WORKSPACE$$
$$FILE$$

INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

SCALE 1" = 20'



PLAN



ELEVATION

INDEX OF SHEETS

SHEET NO.	TITLE
33-38	BRIDGE 253 - GENERAL PLAN AND ELEVATION
39-41	BRIDGE 253 - TEMPORARY WORK ROAD DETAILS
42	BRIDGE 253 - TYPICAL SECTION
43	BRIDGE 253 - ABUTMENT REPAIRS
44-90	BRIDGE 253 - SUBSTRUCTURE REPAIRS
91-94	BRIDGE 253 - SUPERSTRUCTURE REPAIRS
95	BRIDGE 253 - BEARING DETAILS
96-99	BRIDGE 253 - TRAFFIC CONTROL

① REPAIR SOFFIT USING (PL) REPAIR BRIDGE ITEM (TYPE A). SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR DETAILS.

② REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.

③ REPAIR BEAMS AND DIAPHRAGMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.

④ NO PROPOSED REPAIRS ASSOCIATED WITH THE CONCRETE ARCHES.

⑤ EXISTING UTILITY NEAR PROPOSED WORK ROAD. THE CONTRACTOR TO MAINTAIN UNINHIBITED FLOW AND CONTROL ANY EROSION IN THE AREA.

⑥ THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES OR UTILITIES IN THE AREA. ALL MANHOLES AND UTILITIES SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 22868 OKLAHOMA 7/16/26

ADVERTISE DATE:

REVISION	BY	DATE

BRIDGE 258 - GENERAL PLAN AND ELEVATION (SHEET 1 OF 6)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	SJL	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		7/26

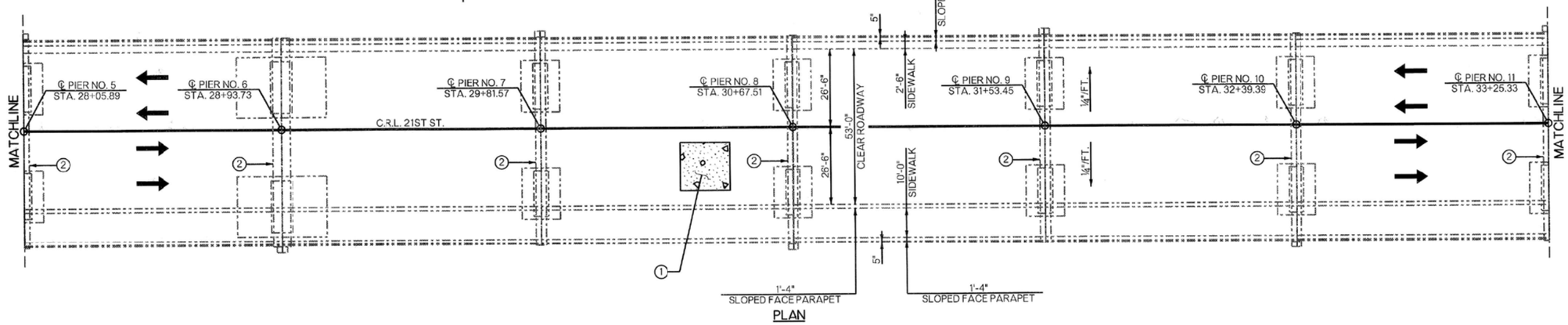
APPROVED:

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PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=20'
RECOMMENDED:
HAS 8:26
DESIGN MANAGER
CITY ENGINEER
FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 33 OF 99 SHEETS

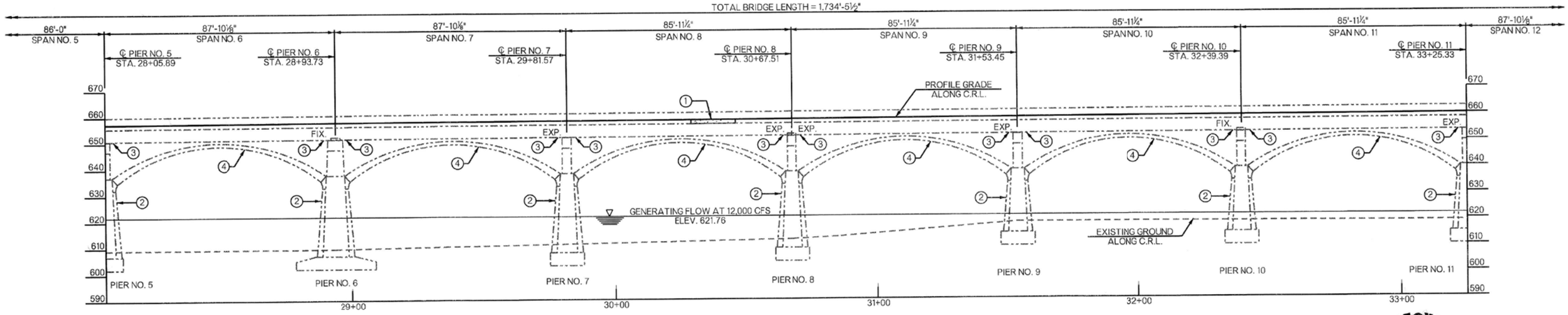
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L:\2024\T03-2401662 - COT IOT3 - Br 245 and 258 Rehab\Drawings\BRIDGE\BRIDGE 258 - 21ST\COT_2436B0005Z-245,256-258_GENERAL PLAN AND ELEVATION 1.dgn

INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

0 20 40 60
SCALE 1" = 20'



PLAN



ELEVATION

1. REPAIR SOFFIT USING (PL) REPAIR BRIDGE ITEM (TYPE A). SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR DETAILS.
2. REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.
3. REPAIR BEAMS AND DIAPHRAGMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.
4. NO PROPOSED REPAIRS ASSOCIATED WITH THE CONCRETE ARCHES.

BEFORE YOU DIG 811 1800 522 OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA 7/14/26

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - GENERAL PLAN AND ELEVATION (SHEET 2 OF 6)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	SJL	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.	BTM	7/26

APPROVED:

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

RECOMMENDED:

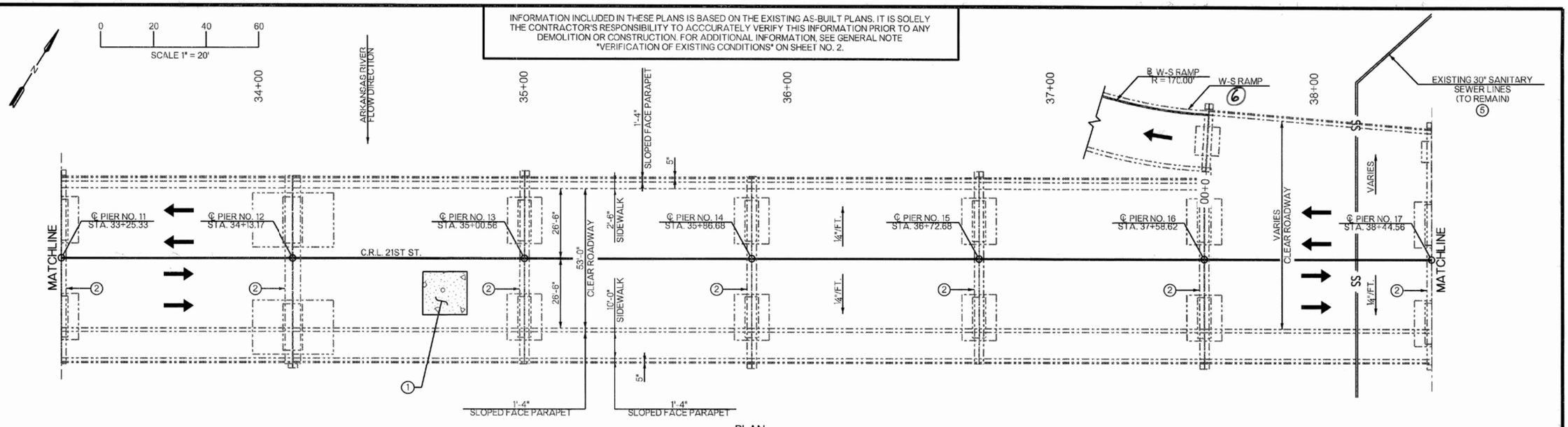
HAS 8-26
DESIGN MANAGER

CITY ENGINEER

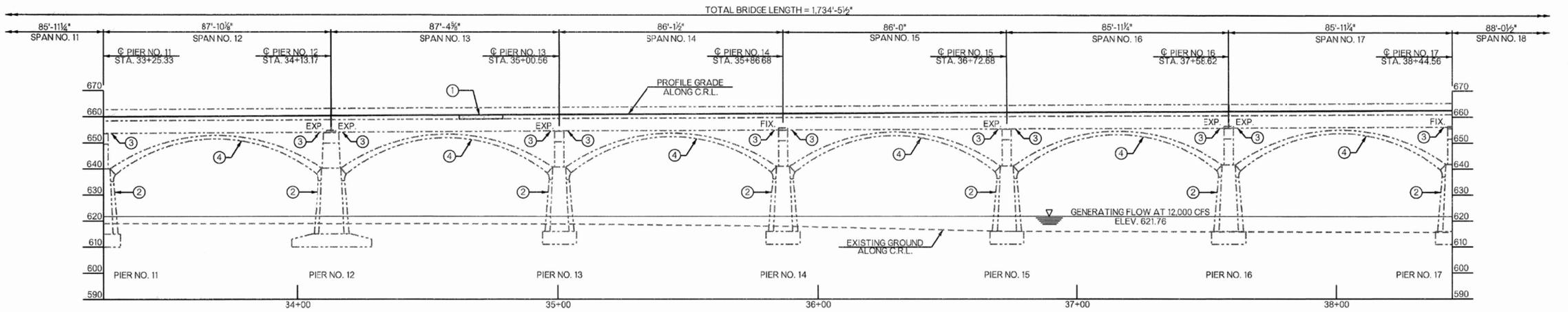
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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 34 OF 99 SHEETS

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



PLAN



ELEVATION

(1) REPAIR SOFFIT USING (PL) REPAIR BRIDGE ITEM (TYPE A). SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR DETAILS.

(2) REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.

(3) REPAIR BEAMS AND DIAPHRAGMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.

(4) NO PROPOSED REPAIRS ASSOCIATED WITH THE CONCRETE ARCHES.

(5) THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

(6) SEE SHEET NOS. 37 & 38 FOR DETAILS.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/24/26 22868 OKLAHOMA

BRIDGE 258 - GENERAL PLAN AND ELEVATION (SHEET 3 OF 6)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	SJL	10/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	9/26	
FIELD MGR.		8/26	

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

RECOMMENDED:
DESIGN MANAGER

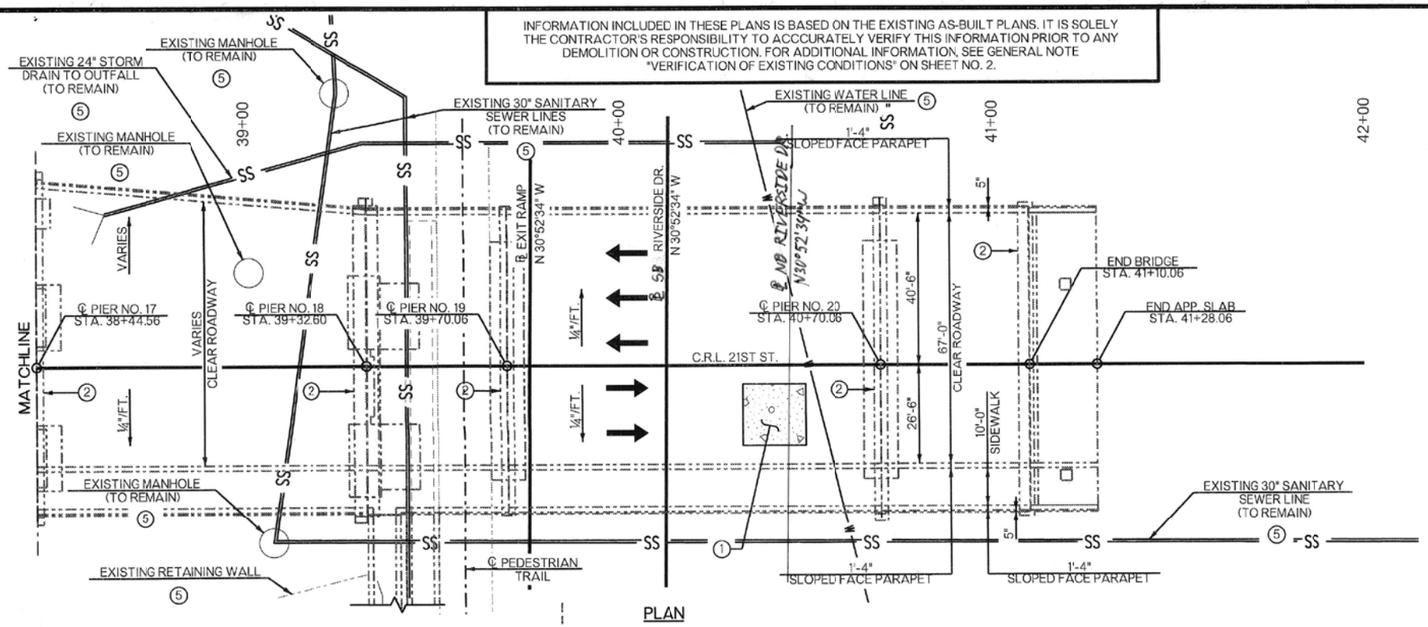
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

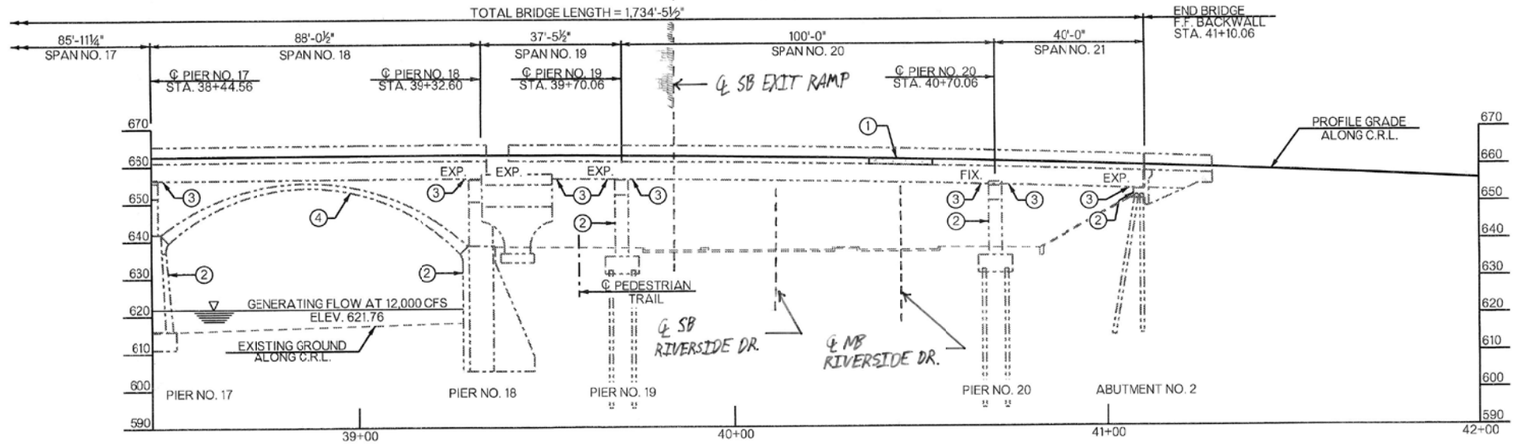
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ATLAS PAGE NO. 5, 16, 34, 35 SHEET 35 OF 99 SHEETS

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



PLAN



ELEVATION

0 20 40 60
SCALE 1" = 20'

1. REPAIR SOFFIT USING (PL) REPAIR BRIDGE ITEM (TYPE A). SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR DETAILS.
2. REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.
3. REPAIR BEAMS AND DIAPHRAGMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.
4. NO PROPOSED REPAIRS ASSOCIATED WITH THE CONCRETE ARCHES.
5. THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - GENERAL PLAN AND ELEVATION (SHEET 4 OF 6)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 858-0107

GARVER

DRAWN	SJL	10/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE 1"=20'
PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=20'
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

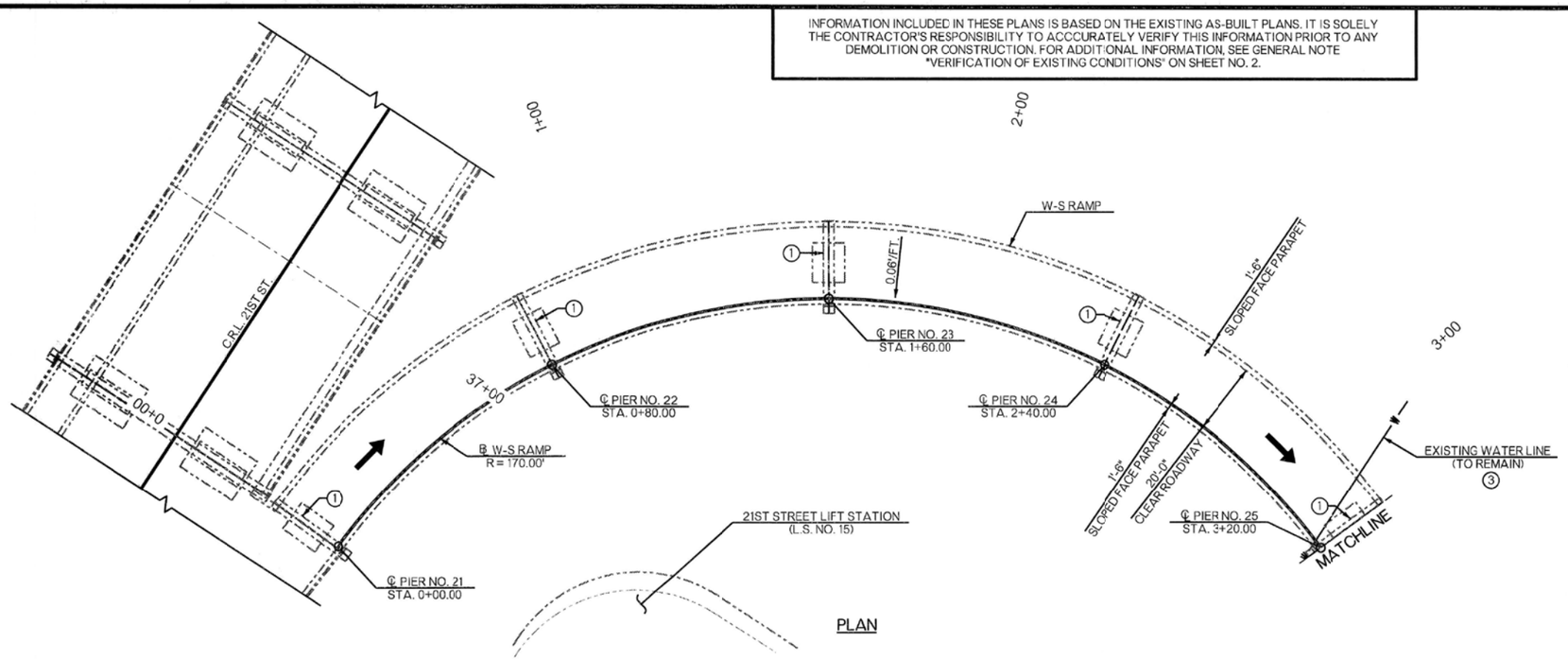
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 07/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 36 OF 99 SHEETS

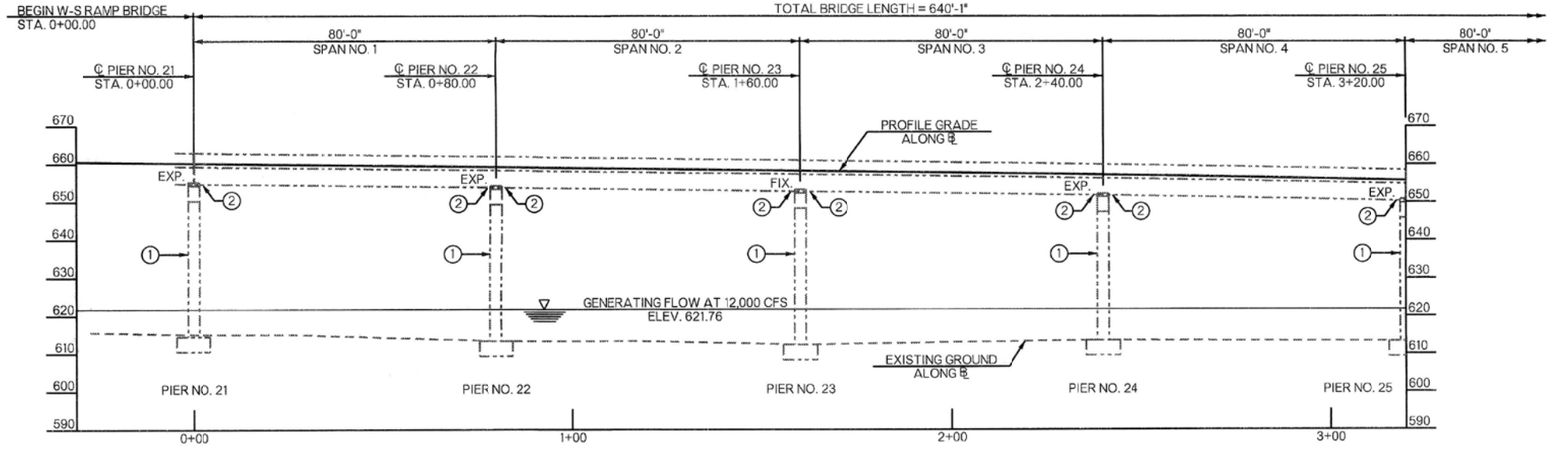
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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



PLAN

0 20 40 60
SCALE 1" = 20'



ELEVATION

① REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.

② REPAIR BOX BEAMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.

③ THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

BEFORE YOU DIG 811 CALL OKIE 1-800-522-OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randell Thompson 7/14/25 22868 OKLAHOMA

BRIDGE 258 - GENERAL PLAN AND ELEVATION
(SHEET 5 OF 6)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE. SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	SJL	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/25
FIELD MGR.		

APPROVED:

PLAN SCALE 1"=20'
PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=20'
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

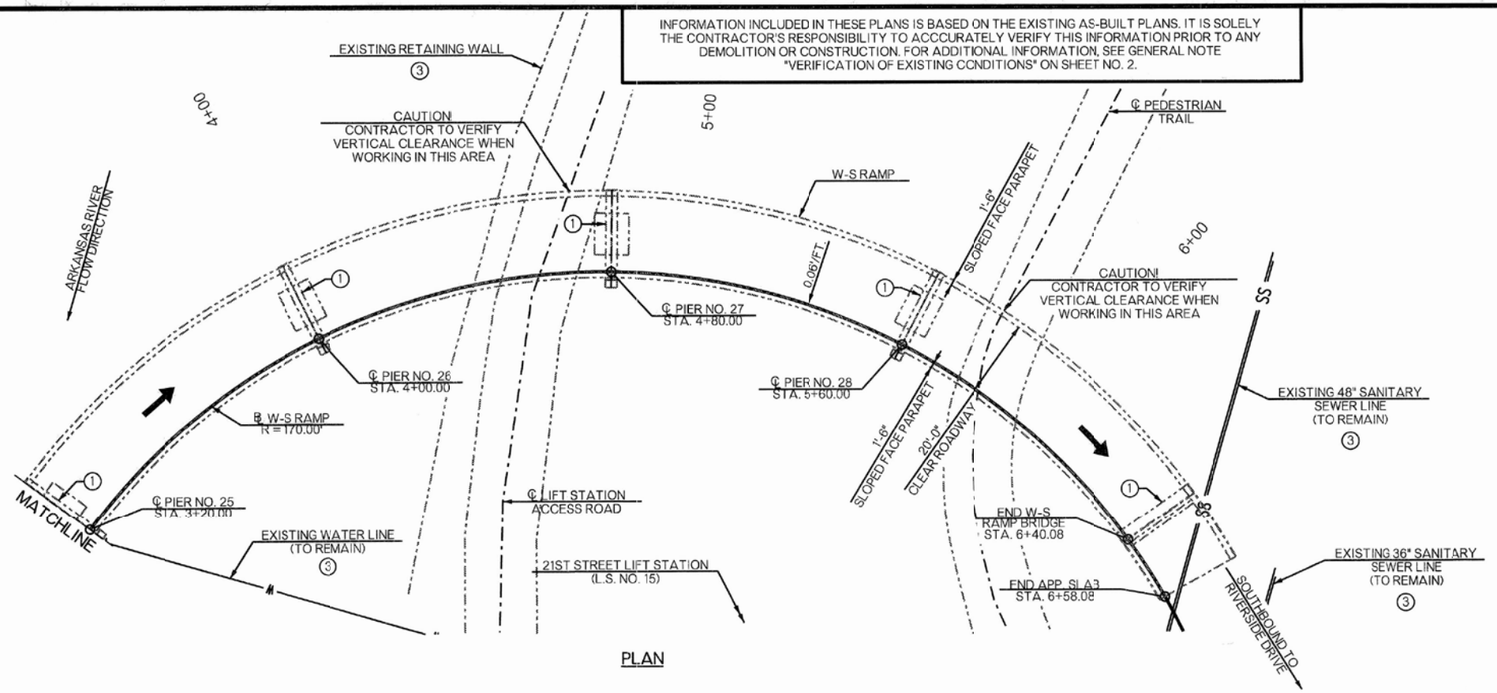
ADVERTISE DATE:

REVISION	BY	DATE

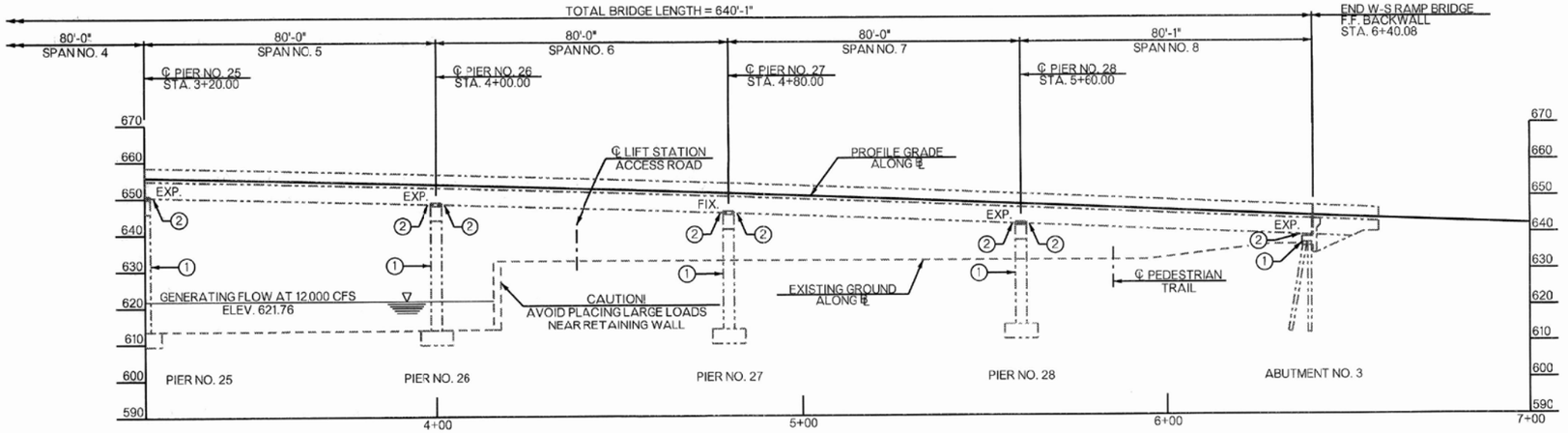
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DATE: 10/12/2024
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 37 OF 99 SHEETS

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PLAN



ELEVATION

① REPAIR ABUTMENTS, PIER CAPS, & COLUMNS. SEE "ABUTMENT REPAIRS" AND "SUBSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION. APPLY WATER REPELLENT AND ELASTOMERIC COATING AFTER REPAIRS ARE MADE.

② REPAIR BOX BEAMS. SEE "SUPERSTRUCTURE REPAIRS" SHEETS FOR EXACT TYPE OF REPAIR AND LOCATION.

③ THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

0 20 40 60
SCALE 1" = 20'

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

ADVERTISE DATE:		
REVISION	BY	DATE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/24/26 22868 OKLAHOMA

BRIDGE 258 - GENERAL PLAN AND ELEVATION (SHEET 6 OF 6)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	SJL	10/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

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

RECOMMENDED:

HAS 8-26
DESIGN MANAGER

CITY ENGINEER

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 38 OF 99 SHEETS

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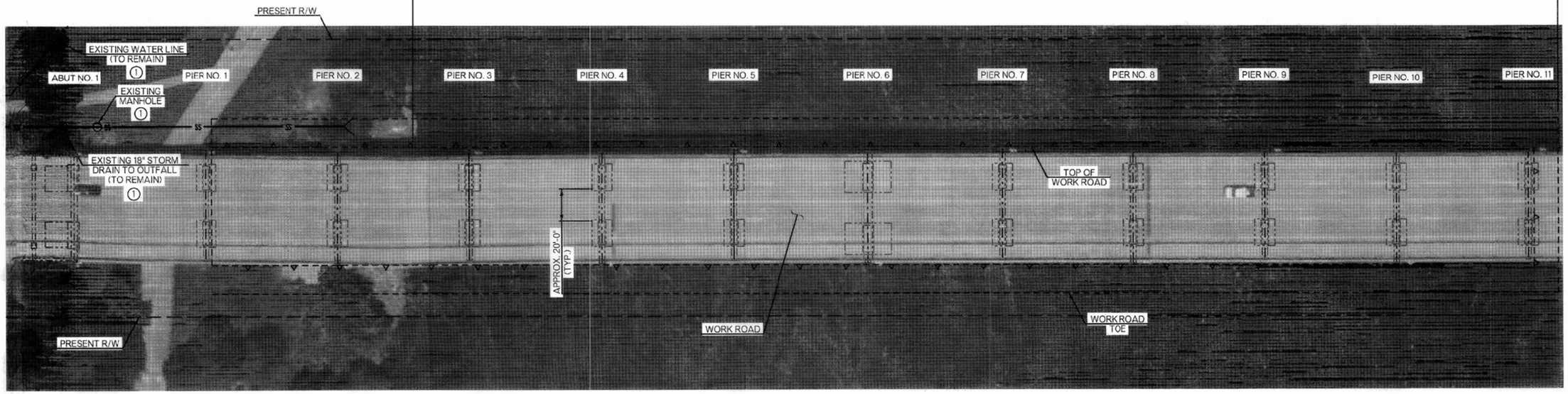
INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

0 35 70 105
SCALE 1" = 35'

N

TOTAL WIDTH OF ARKANSAS RIVER = 1,182'-0"

MAXIMUM ALLOWABLE LENGTH OF WEST WORK ROAD IN THE RIVER AT ANY GIVEN TIME = 748'-0"



① THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING UTILITIES IN THE AREA. ALL UTILITIES SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.

2) ACTUAL ALIGNMENT OF WORK ROADS MAY VARY FROM THAT SHOWN.

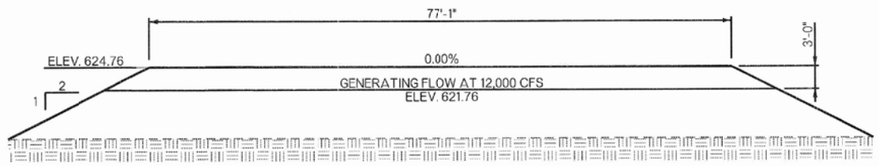
3) WORK ROAD HEIGHTS, WIDTHS, AND SECTIONS SHOWN ARE CONCEPTUAL ONLY AND ARE NOT, IN ANY WAY, MEANT TO CONVEY THE TYPE OR MATERIALS USED TO SUCCESSFULLY COMPLETE PROJECT CONSTRUCTION IN CONFORMANCE WITH THESE DRAWINGS AND SPECIFICATIONS.

4) CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION, REMOVAL, CLEANUP, MAINTENANCE, AND REPAIR OF WORK ROADS AND DIVERSION MEASURES.

5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 258 EQUIPMENT ACCESS.

WEST WORK ROAD



TYPICAL SECTION THRU WORK ROAD

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - TEMPORARY WORK ROAD DETAILS (SHEET 1 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	JMH	11/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

PLAN SCALE 1"=35'
PROFILE SCALE HORIZONTAL: 1"=35'
VERTICAL: 1"=35'

RECOMMENDED:

HAS 8-26
DESIGN MANAGER

CITY ENGINEER

DATE: 10/12/2026

FILE: DRAWING:

ATLAS PAGE NO. 5, 16, 34, 35

SHEET 39 OF 99 SHEETS

LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/1/26
22868
OKLAHOMA

ADVERTISE DATE:		
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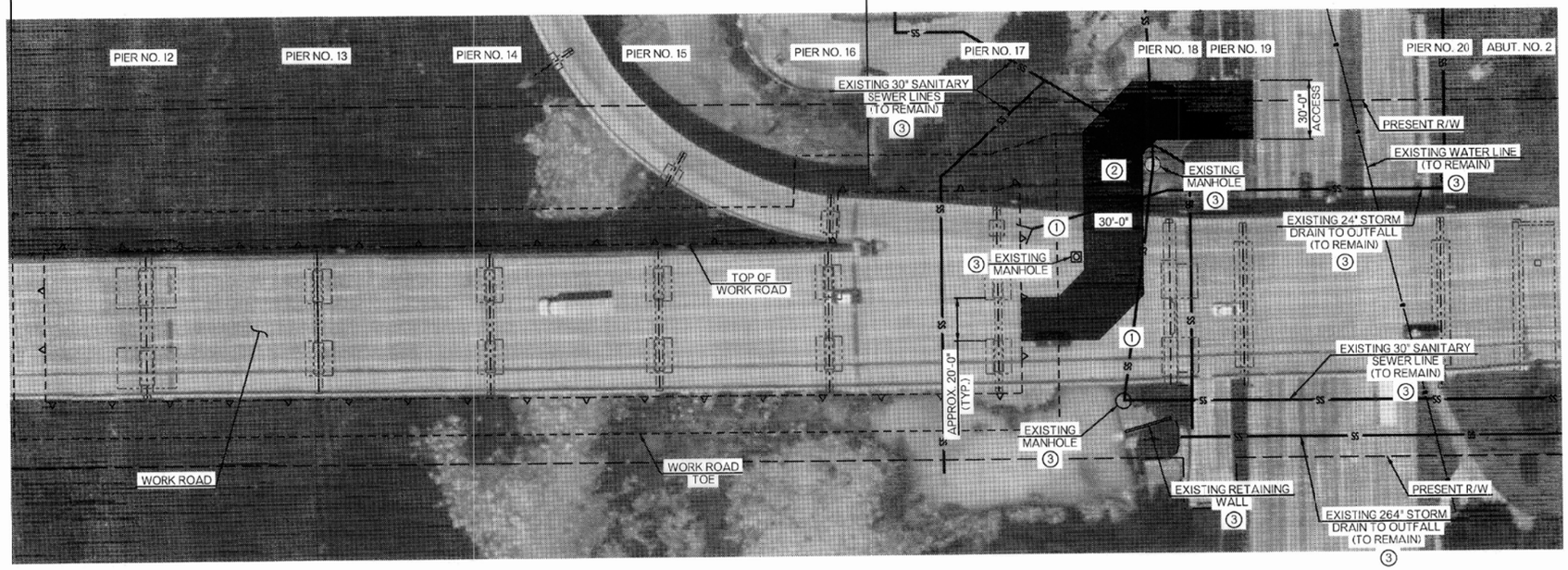
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0 35 70 105
SCALE 1" = 35'

N

TOTAL WIDTH OF ARKANSAS RIVER = 1,182'-0"

MAXIMUM ALLOWABLE LENGTH OF EAST WORK ROAD IN THE RIVER AT ANY GIVEN TIME = 434'-0"



① BASED ON TOP OF WORK ROAD ELEVATION, THE WORK ROAD SHALL APPROPRIATELY TAPER TO TIE INTO THE EXISTING GROUND UNDER SPAN NO. 18.

② APPROXIMATE ROUTE CONTRACTOR SHALL USE TO ACCESS BRIDGE FOR REPAIRS.

③ THE CONTRACTOR SHALL TAKE CAUTION NOT TO DAMAGE THE EXISTING MANHOLES, UTILITIES, OR RETAINING WALLS IN THE AREA. ALL MANHOLES, UTILITIES, & RETAINING WALLS SHALL BE IDENTIFIED, MARKED, AND PROTECTED (IF NEEDED) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND MOVING EQUIPMENT.

WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.

2) ACTUAL ALIGNMENT OF WORK ROADS MAY VARY FROM THAT SHOWN.

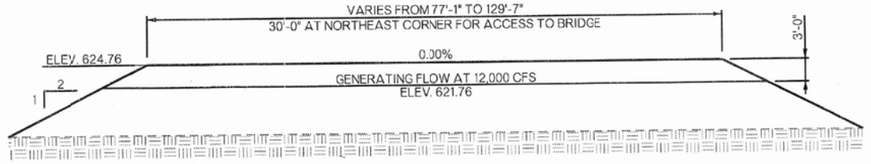
3) WORK ROAD HEIGHTS, WIDTHS, AND SECTIONS SHOWN ARE CONCEPTUAL ONLY AND ARE NOT, IN ANY WAY, MEANT TO CONVEY THE TYPE OR MATERIALS USED TO SUCCESSFULLY COMPLETE PROJECT CONSTRUCTION IN CONFORMANCE WITH THESE DRAWINGS AND SPECIFICATIONS.

4) CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION, REMOVAL, CLEANUP, MAINTENANCE, AND REPAIR OF WORK ROADS AND DIVERSION MEASURES.

5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 258 EQUIPMENT ACCESS.

EAST WORK ROAD



TYPICAL SECTION THRU WORK ROAD

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - TEMPORARY WORK ROAD DETAILS (SHEET 2 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	JMH	11/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE 1"=35'
PROFILE SCALE HORIZONTAL: 1"=35' VERTICAL: 1"=35'
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

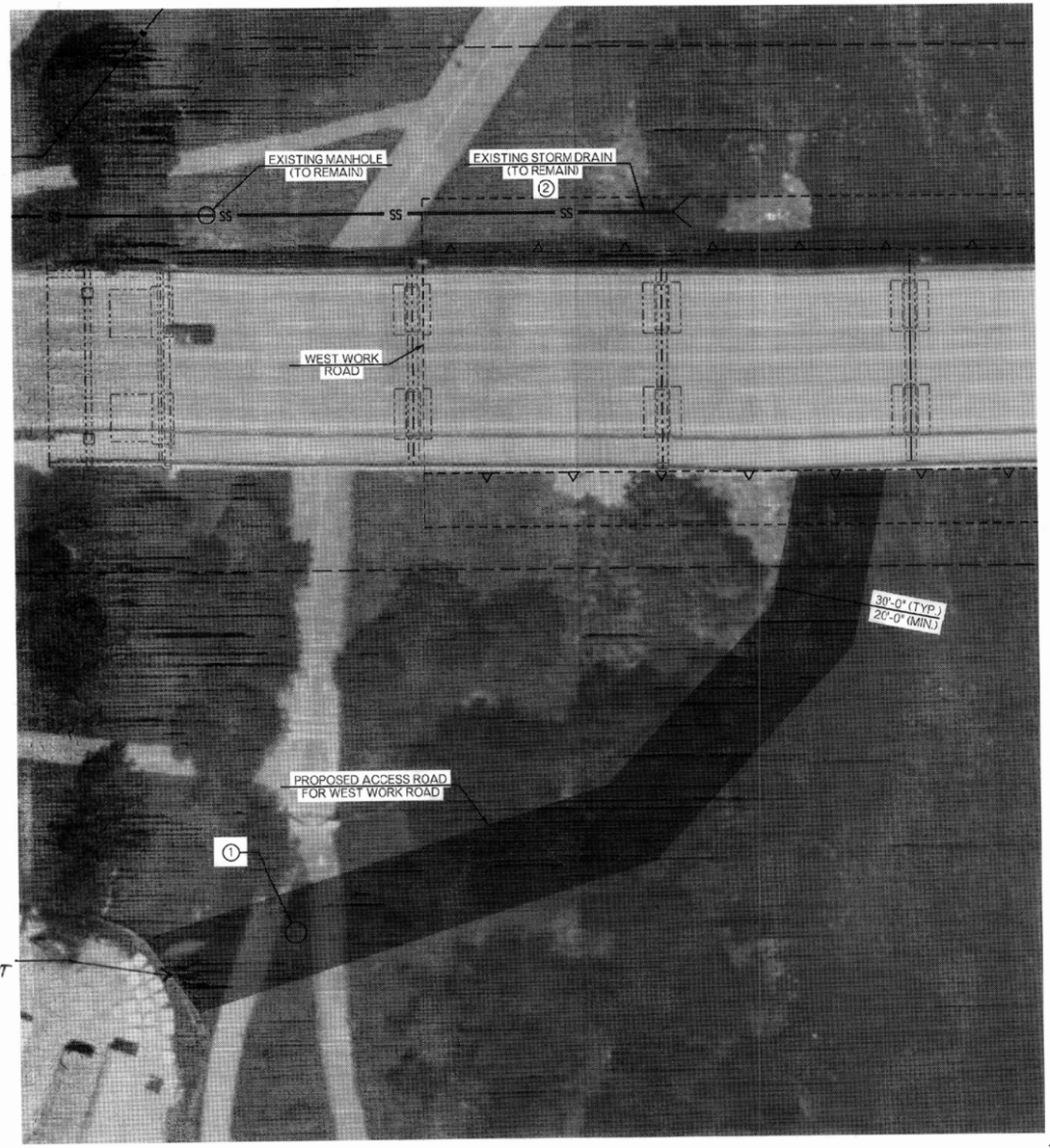
LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
ATLAS PAGE NO. 5, 16, 34, 35
DATE: 10/12/2026
SHEET 40 OF 99 SHEETS

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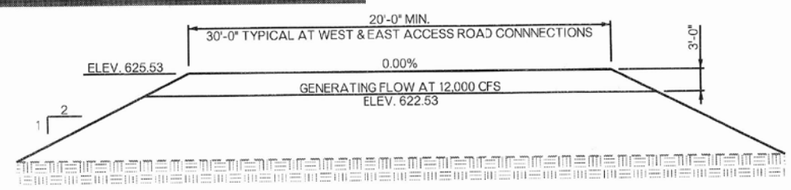
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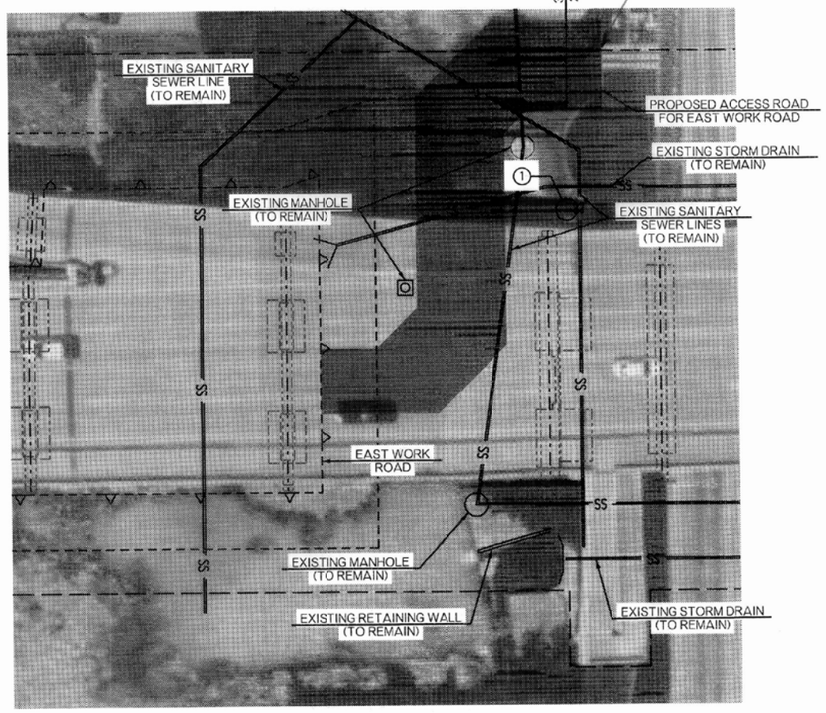
WEST WORK ROAD

① THE CONTRACTOR SHALL REMOVE ANY LIGHT POLES IN CONFLICT WITH THE PROPOSED WORK ROAD. THE EXISTING CONCRETE FOOTINGS SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY LIGHT POLES THAT ARE REMOVED SHALL BE RESET ONCE THE WORK ROAD HAS BEEN REMOVED. ALL COSTS ASSOCIATED WITH THE REMOVAL & RESETTING OF THE LIGHT POLES SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "TEMPORARY CONSTRUCTION ACCESS".

② THE CONTRACTOR SHALL MAINTAIN UNINHIBITED FLOW AND CONTROL ANY EROSION IN THE AREA.



TYPICAL SECTION THRU ACCESS ROAD



EAST WORK ROAD

WORK ROAD NOTES:

1) AERIAL BASE PHOTO TAKEN FROM HISTORICAL IMAGERY.
2) ACTUAL ALIGNMENT OF WORK ROADS MAY VARY FROM THAT SHOWN.
3) WORK ROAD HEIGHTS, WIDTHS, AND SECTIONS SHOWN ARE CONCEPTUAL ONLY AND ARE NOT, IN ANY WAY, MEANT TO CONVEY THE TYPE OR MATERIALS USED TO SUCCESSFULLY COMPLETE PROJECT CONSTRUCTION IN CONFORMANCE WITH THESE DRAWINGS AND SPECIFICATIONS.
4) CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION, REMOVAL, CLEANUP, MAINTENANCE, AND REPAIR OF WORK ROADS AND DIVERSION MEASURES.
5) DETERMINATION OF MEANS AND METHODS FOR WATER DIVERSION AND WORK ROADS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
6) LOCATION AND SIZE OF RAMPS INTO WORK AREA ARE CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A RAMP REQUIRED FOR BRIDGE 258 EQUIPMENT ACCESS.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - TEMPORARY WORK ROAD DETAILS
(SHEET 3 OF 3)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	JMH	11/24
DESIGNED	JMH	11/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.	BRB	7/26

APPROVED:

PLAN SCALE 1"=35'
PROFILE SCALE HORIZONTAL: 1"=35'
VERTICAL: 1"=35'

RECOMMENDED:

HPS 8:26
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:

REVISION	BY	DATE

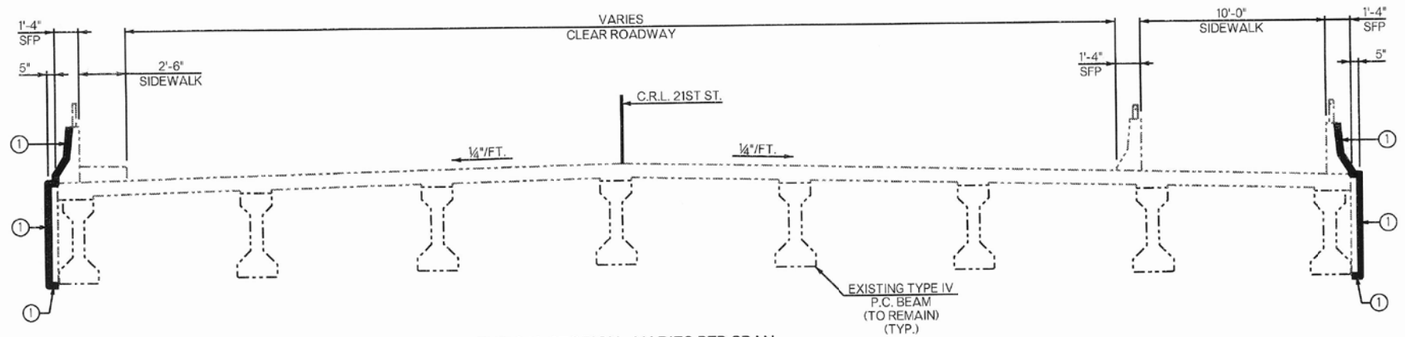
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DATE: 10/12/2026
SHEET 41 OF 99 SHEETS

S.A.Leach 5/21/2026 07:52:18
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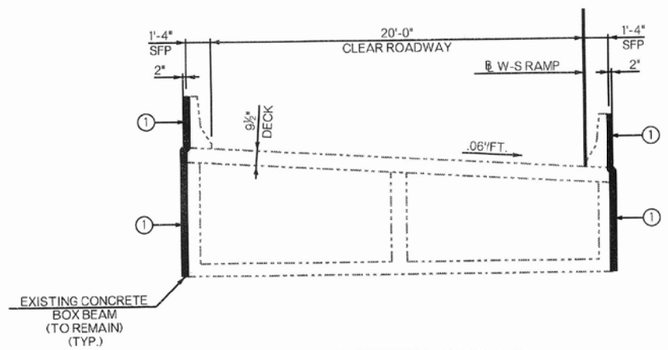
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LEGEND

- EXISTING STRUCTURE
- PROPOSED STRUCTURE



TYPICAL SECTION - VARIES PER SPAN
(LOOKING FORWARD STATION)



TYPICAL SECTION - W-S RAMP
(LOOKING FORWARD STATION)

SUMMARY OF QUANTITIES - SUPERSTRUCTURE			
	ITEM	UNIT	TOTAL
	(PL)FALSEWORK JACKING	EA	32.00
	STAINLESS STEEL EXP. BEARING ASSEMBLY	EA	32.00
	WATER REPELLENT (VISUALLY INSPECTED)	SY	6,227.00
(2)	ELASTOMERIC COATING	SF	10,190.00
(2)	PREPARATION OF CRACKS, ABOVE WATER	LF	1,980.00
(2)	EPOXY RESIN, ABOVE WATER	GAL	66.00
(2)	PNEUMATICALLY PLACED MORTAR	SY	22.00
	(SP) CARBON FIBER-REINFORCED POLYMER	SF	374.00
(2)	CORROSION INHIBITOR(SURFACE APPLIED)	SY	22.00
(2)	(PL)REPAIR BRIDGE ITEMS	SY	22.00
	(PL)REPAIR BRIDGE ITEM (TYPE A)	SY	15.00

(1) APPLY WATER REPELLENT TO THE EXTERIOR CONCRETE FACES OF THE PARAPETS AND FASCIA PANELS, AS WELL AS THE TOP AND BOTTOM FACES OF THE FASCIA PANELS (SHOWN AS A HEAVY LINE).

(2) QUANTITY INCLUDES BOTH THE MAINLINE BRIDGE (21ST ST.) AND THE RAMP BRIDGE (W-S RAMP).

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - TYPICAL SECTION

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	SJL	10/24	APPROVED:
DESIGNED	JMH	11/24	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

RECOMMENDED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randell Thompson 7/14/26 22868 OKLAHOMA

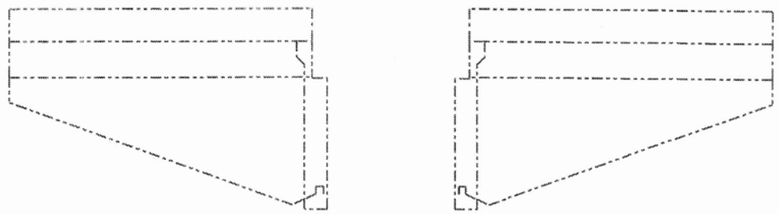
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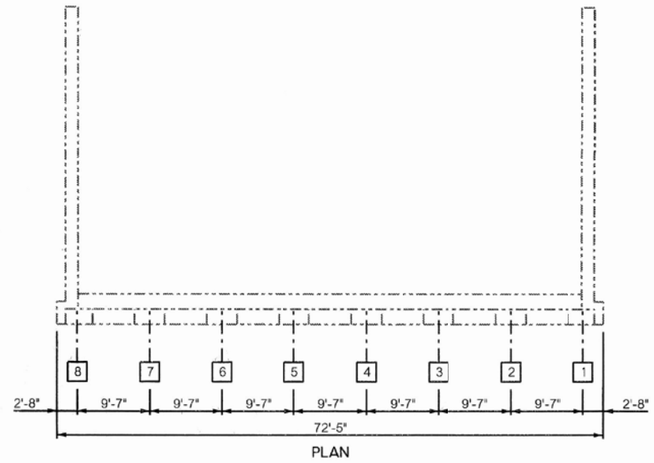
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DATE: 10/12/2026
SHEET 42 OF 99 SHEETS

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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.





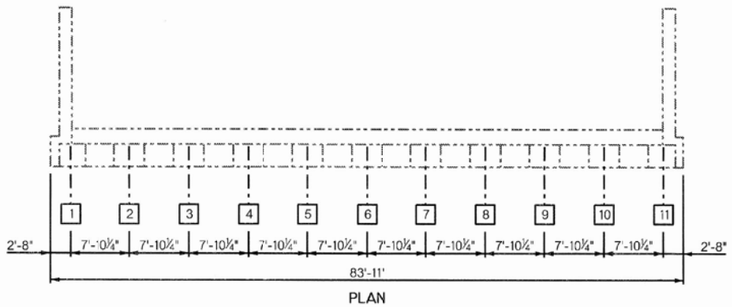
ABUTMENT NO. 1 REPAIR DETAILS

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT ABUTMENT CAP. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE DETAILS AND GENERAL NOTES ON SHEET NO. 3. TO BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.





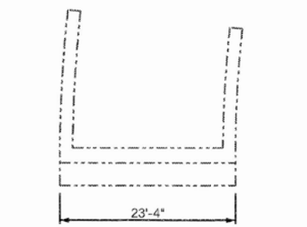
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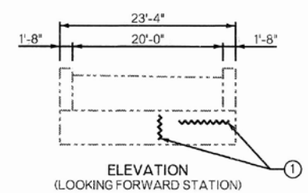
LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT ABUTMENT CAP. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE DETAILS AND GENERAL NOTES ON SHEET NO. 3. TO BE INCLUDED IN THE PRICE BID PER EACH OF "(PL) INSTALLATION OF BRIDGE ITEMS".







ABUTMENT NO. 3 REPAIR DETAILS

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT ABUTMENT CAP. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - ABUTMENT REPAIRS

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	9/26	
FIELD MGR.			
RECOMMENDED:			
DESIGN MANAGER			CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 22868 — OKLAHOMA — 9/4/26

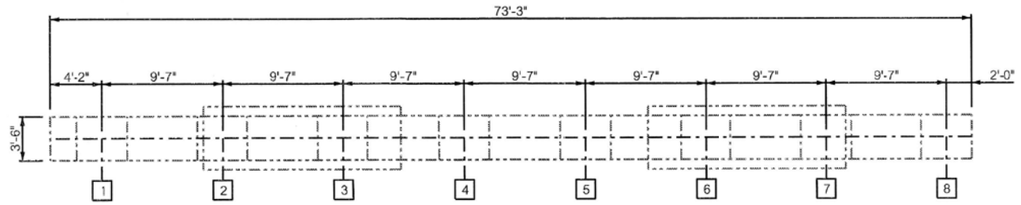
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VERTICAL:

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 43 OF 99 SHEETS

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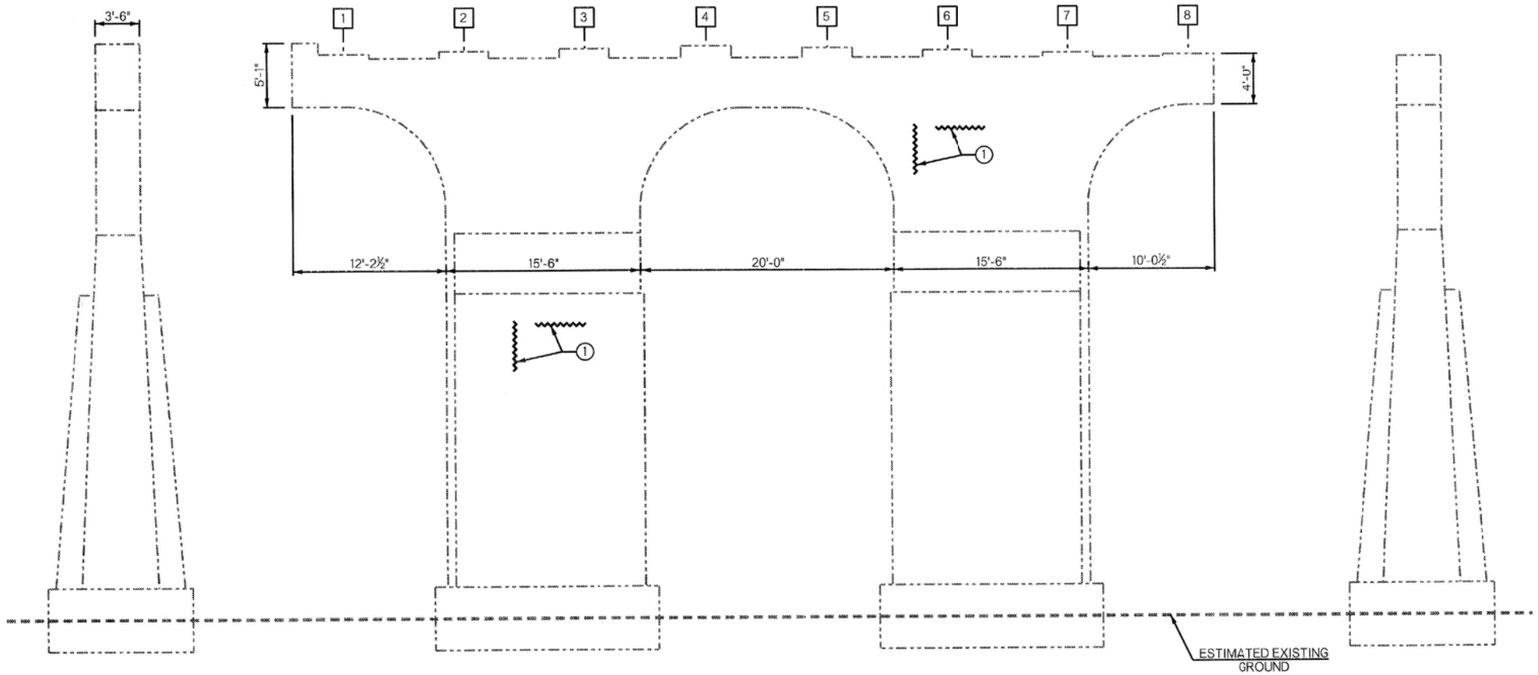
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END | NORTH COLUMN | SOUTH COLUMN | SOUTH END

PIER NO. 1 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOJT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 1 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	11/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
HAS 8-20
DESIGN MANAGER

CITY ENGINEER

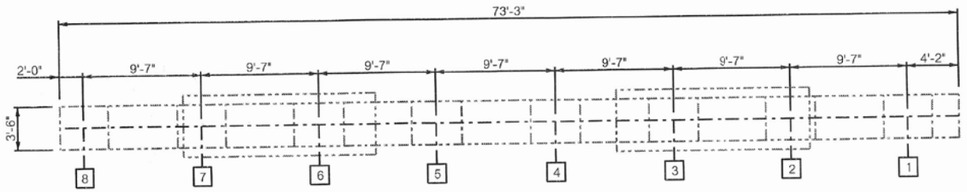
LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
22888
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 44 OF 99 SHEETS

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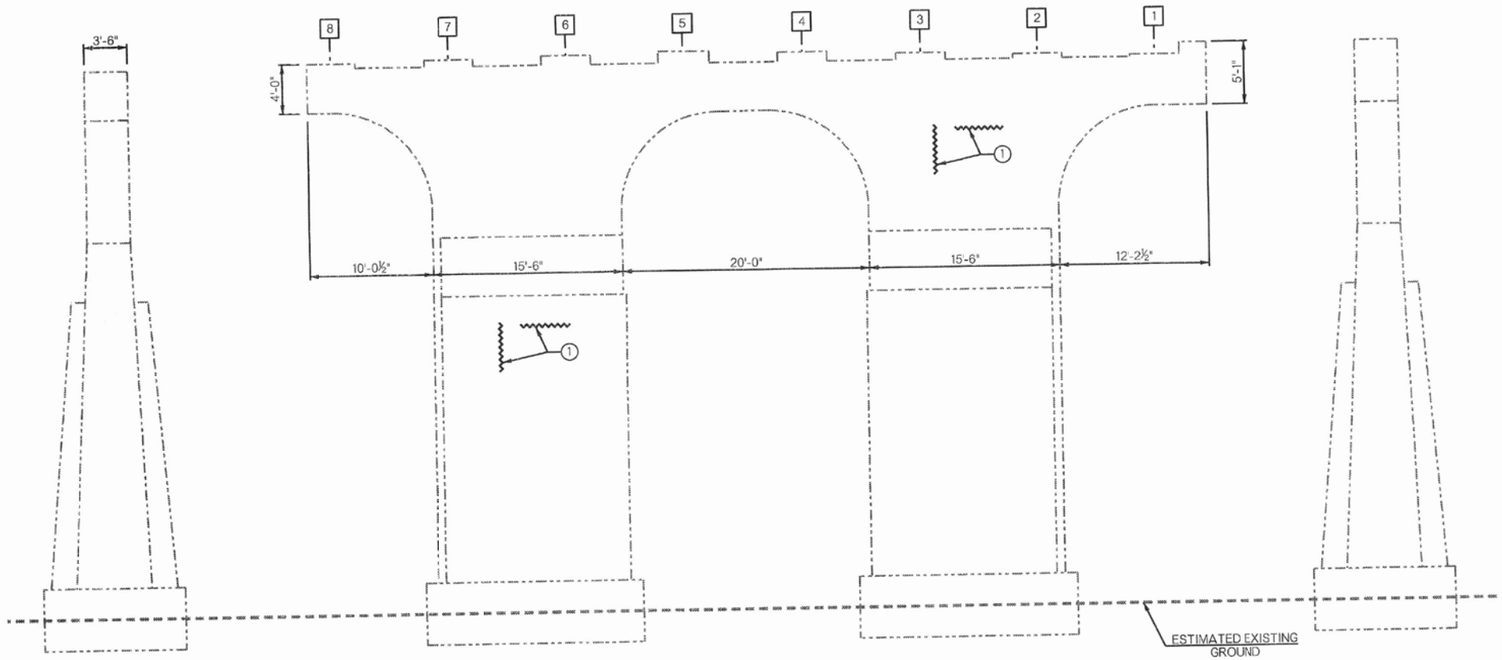
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 1 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 2 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

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PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

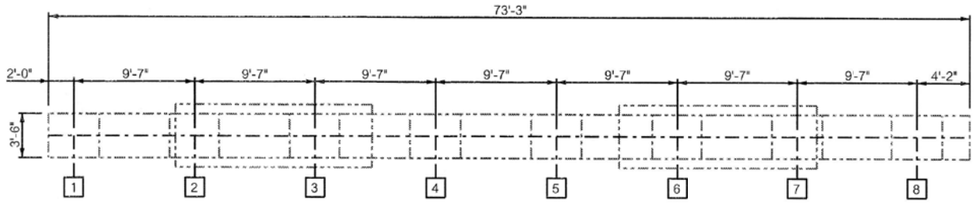
LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/14/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
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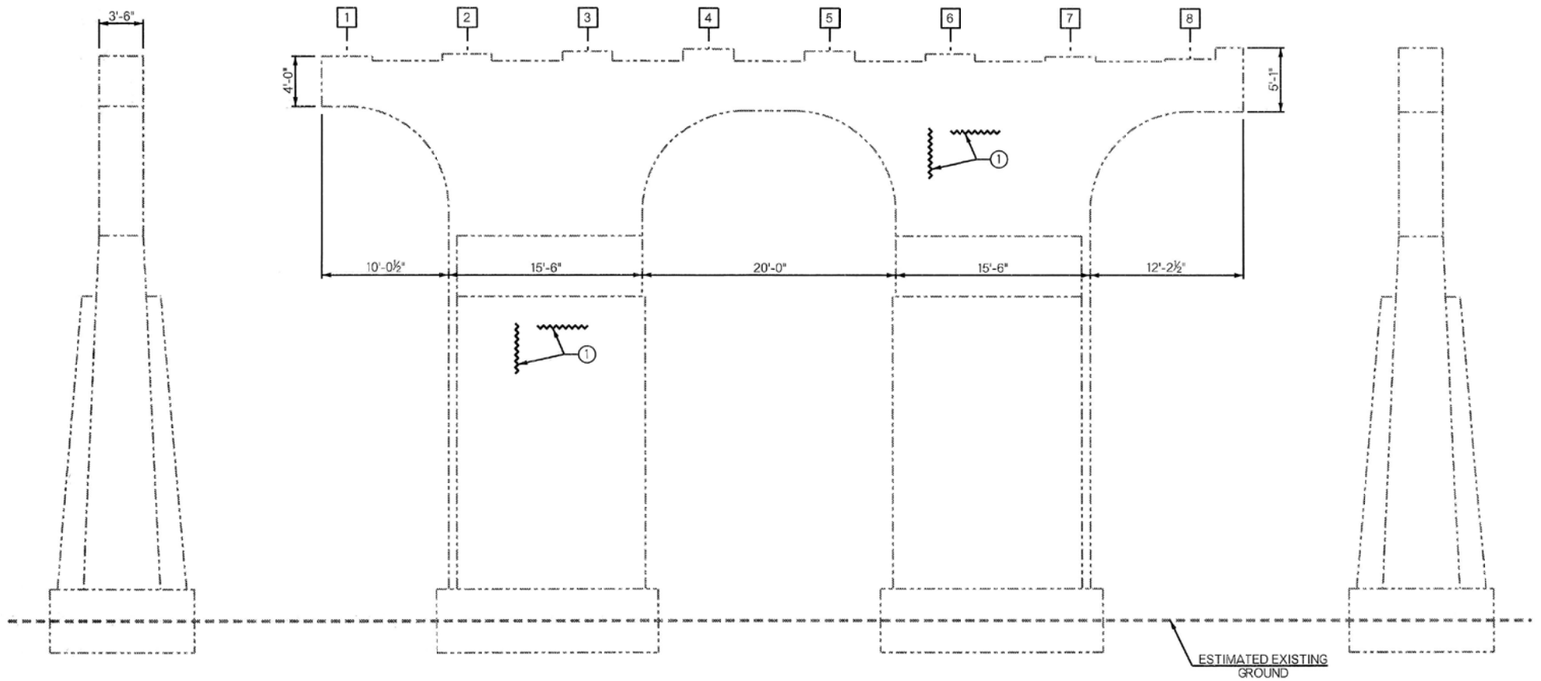
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END NORTH COLUMN SOUTH COLUMN SOUTH END

PIER NO. 2 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 3 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

HRS 8-26
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

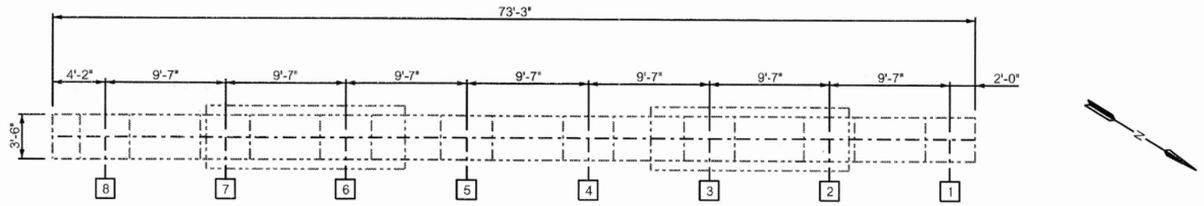
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REVISION	BY	DATE

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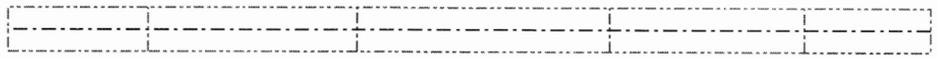
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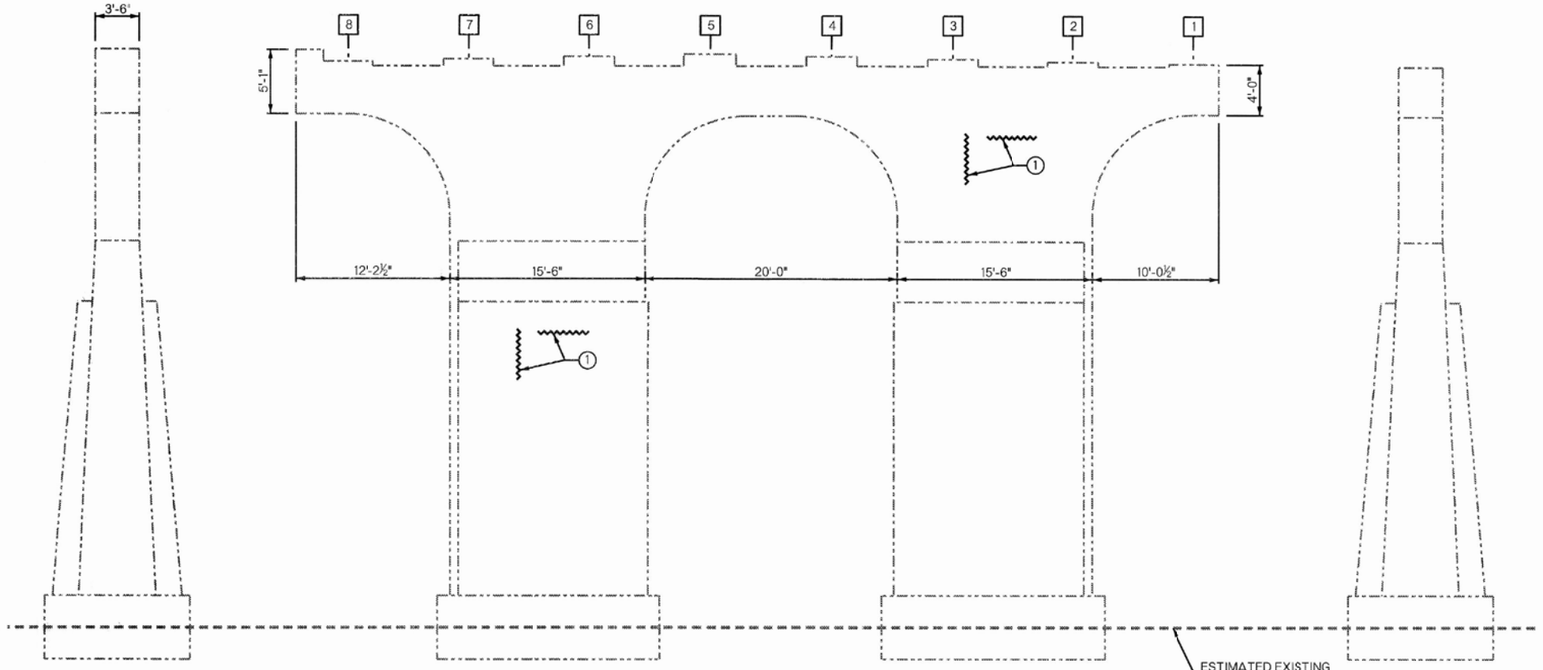
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TOP FACE PLAN



BOTTOM FACE PLAN



SOUTH END | SOUTH COLUMN | NORTH COLUMN | NORTH END

PIER NO. 2 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 4 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

LICENSED PROFESSIONAL ENGINEER
Bradley (Ronald) Thompson
22868
OKLAHOMA
7/14/26

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		7/14/26	

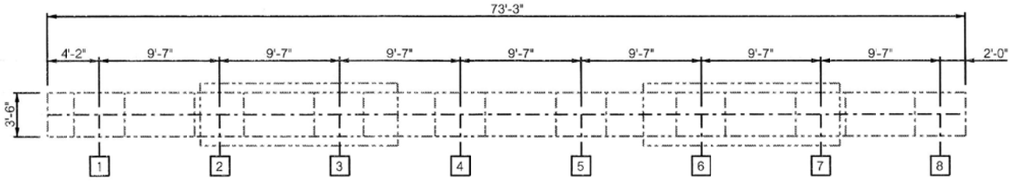
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VERTICAL:
RECOMMENDED:
HBS 8-26
DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
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SHEET 47 OF 99 SHEETS

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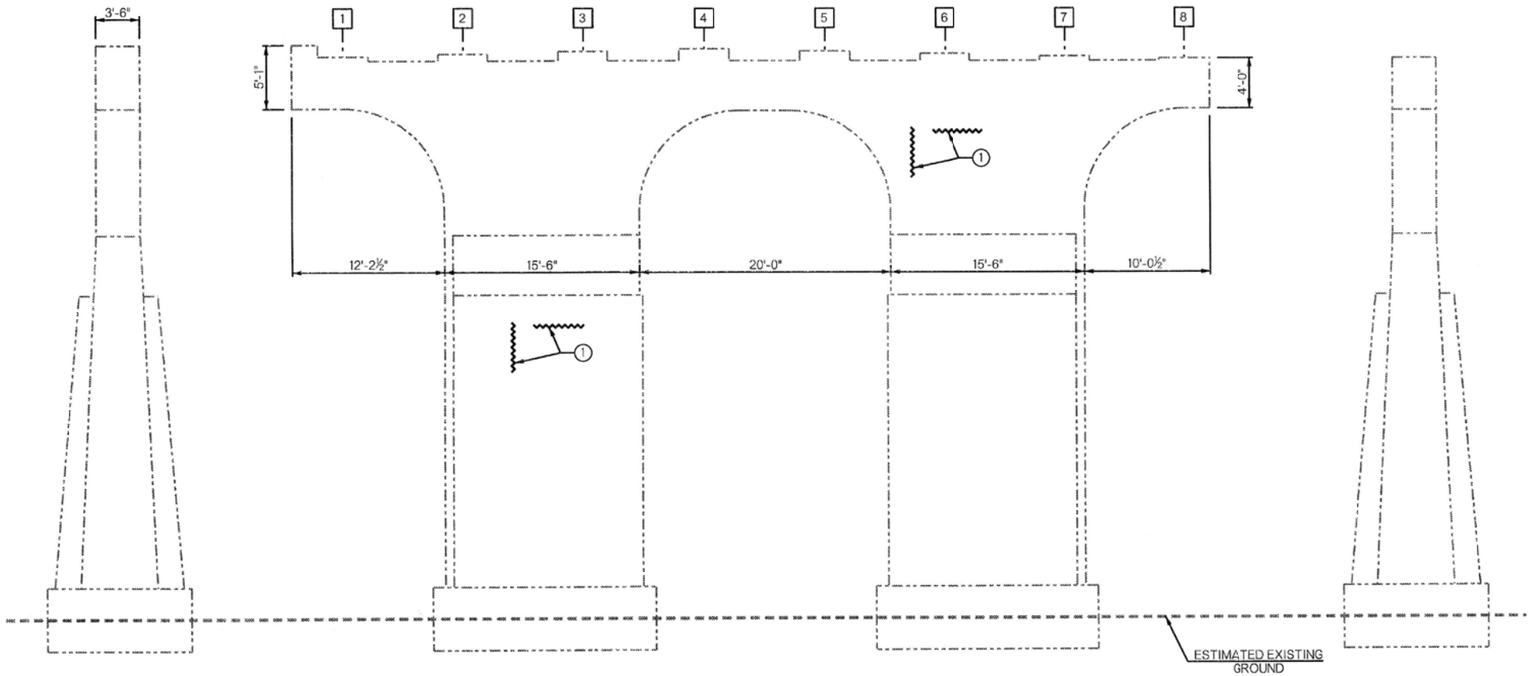
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END | NORTH COLUMN | SOUTH COLUMN | SOUTH END

PIER NO. 3 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 5 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

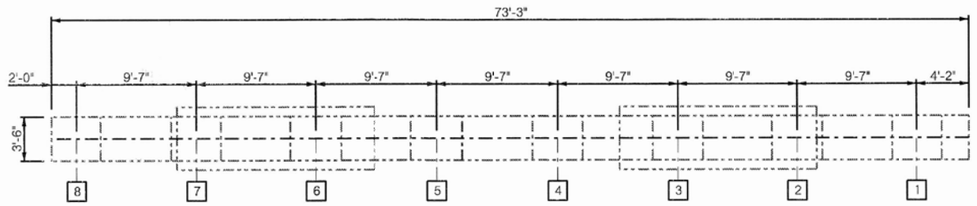
LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 22868 — OKLAHOMA — 7/11/26

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 48 OF 99 SHEETS

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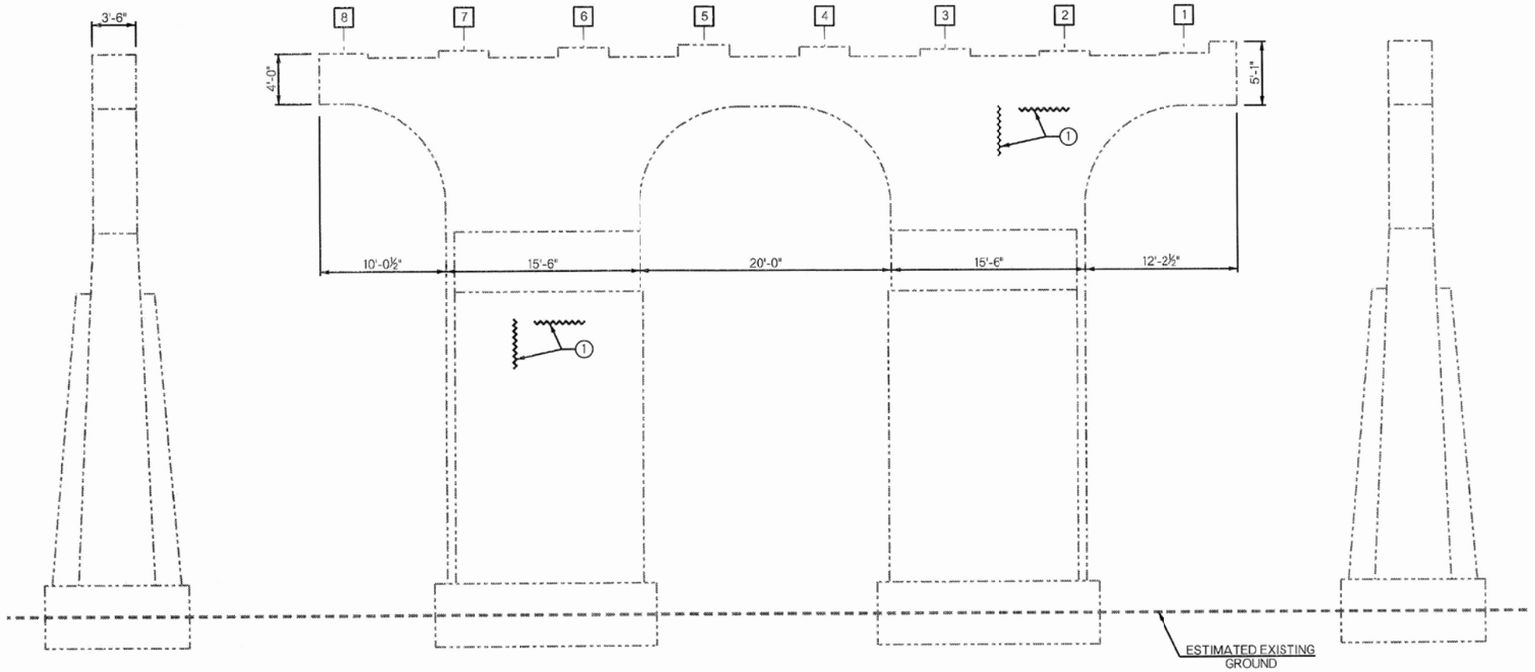
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 3 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 6 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE. SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:

HAS 8-26
DESIGN MANAGER

CITY ENGINEER

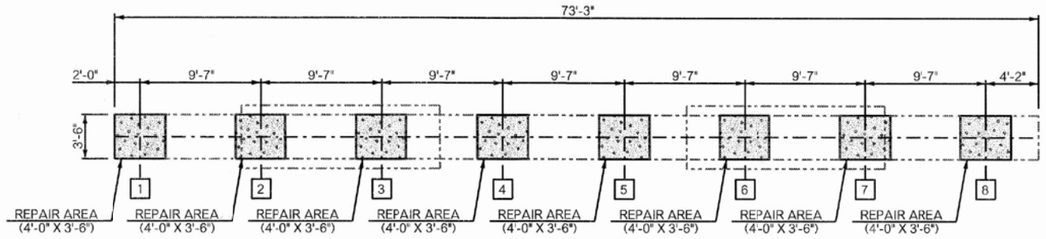
LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/14/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
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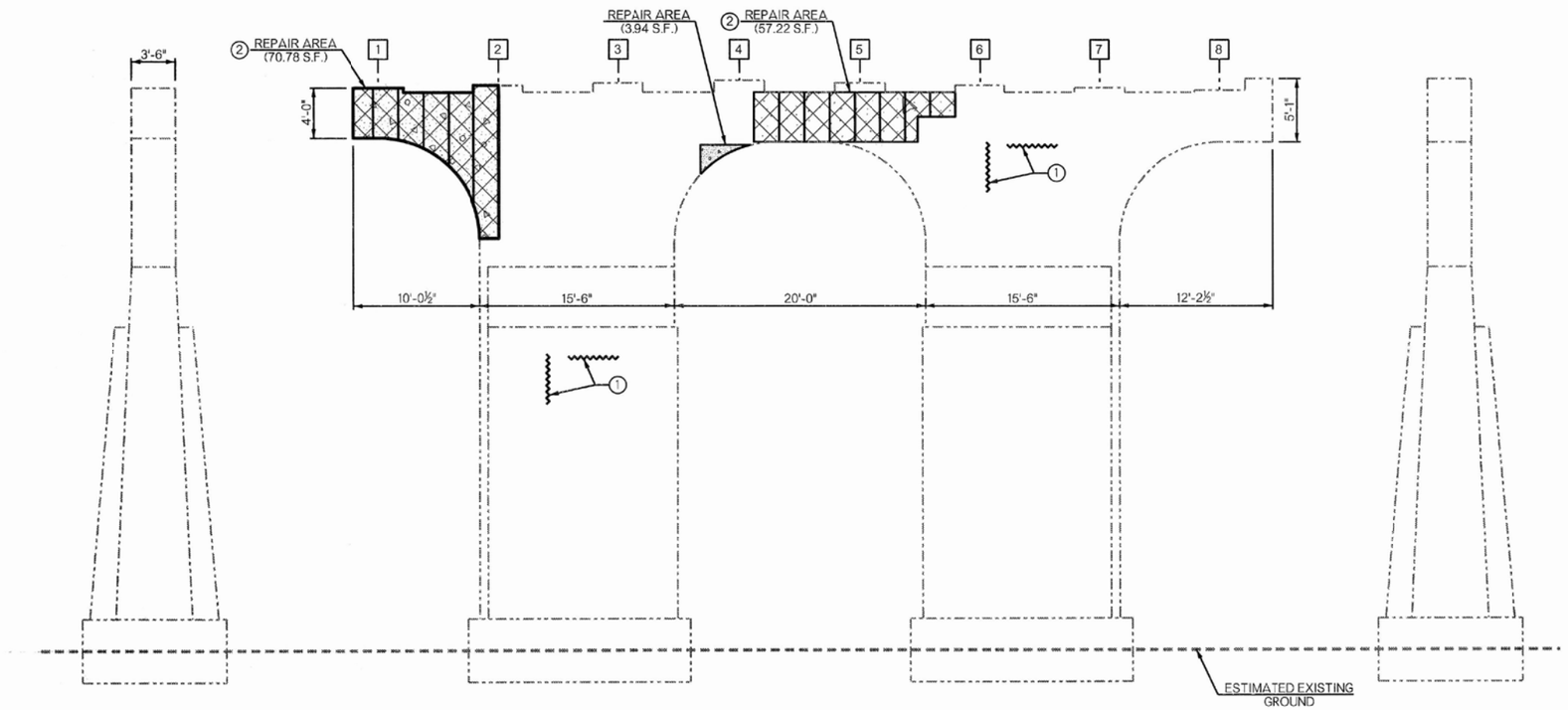
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END | NORTH COLUMN | SOUTH COLUMN | SOUTH END

PIER NO. 4 REPAIR DETAILS - WEST FACE

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 7 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	9/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

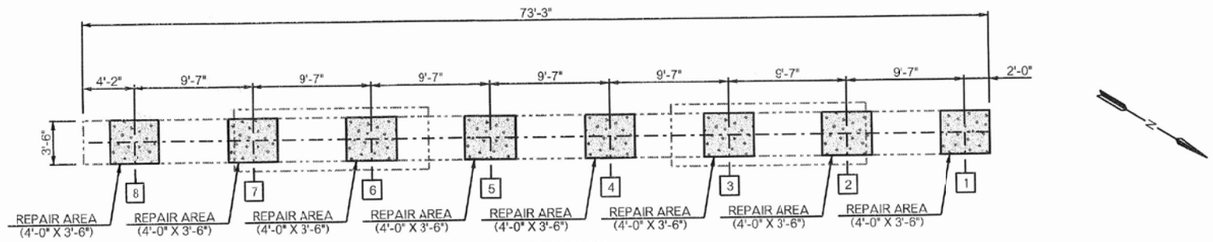
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA

ADVERTISE DATE:		
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DATE: 10/1/2026
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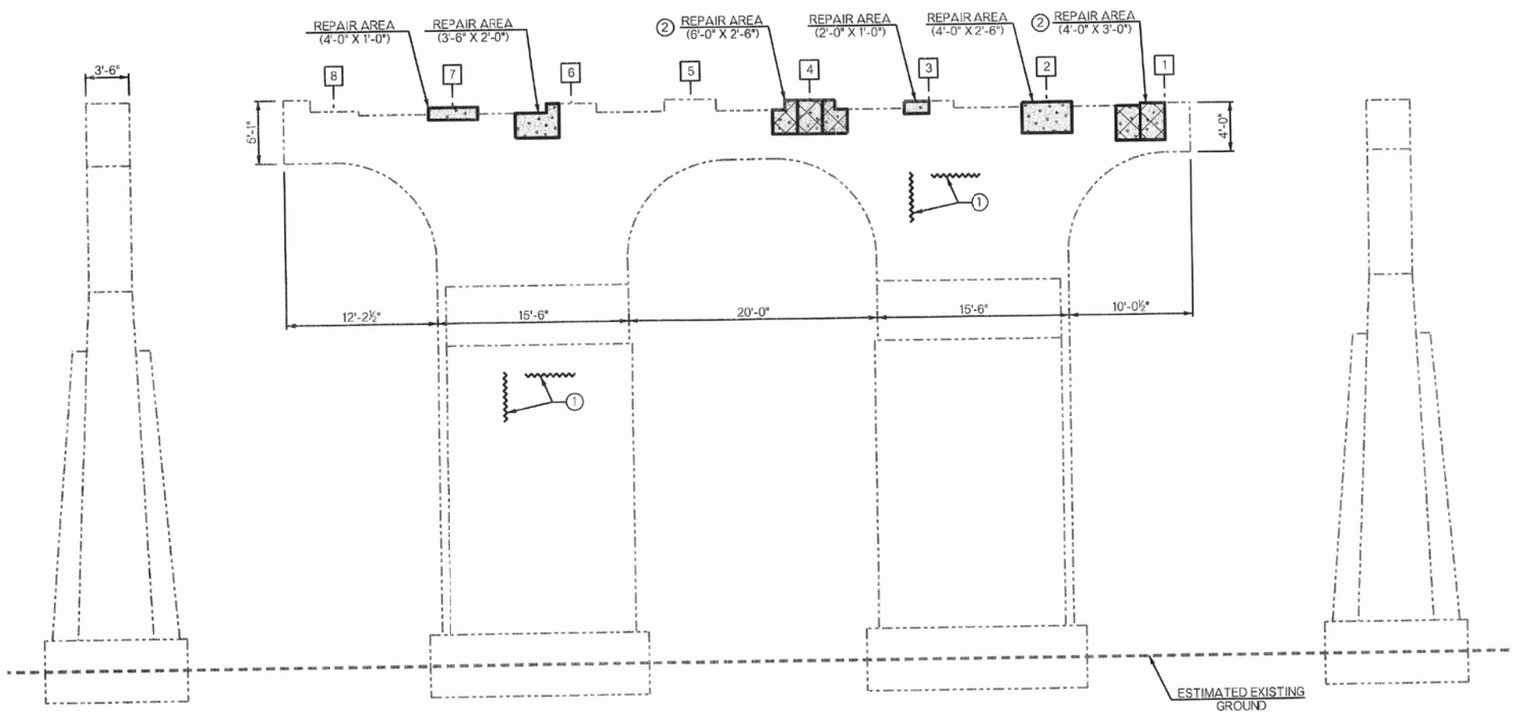
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 4 REPAIR DETAILS - EAST FACE

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 8 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

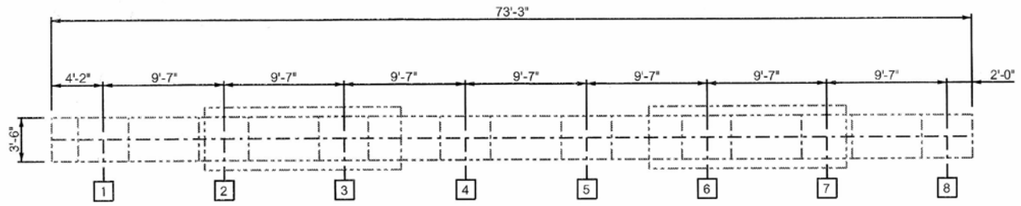
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 51 OF 99 SHEETS

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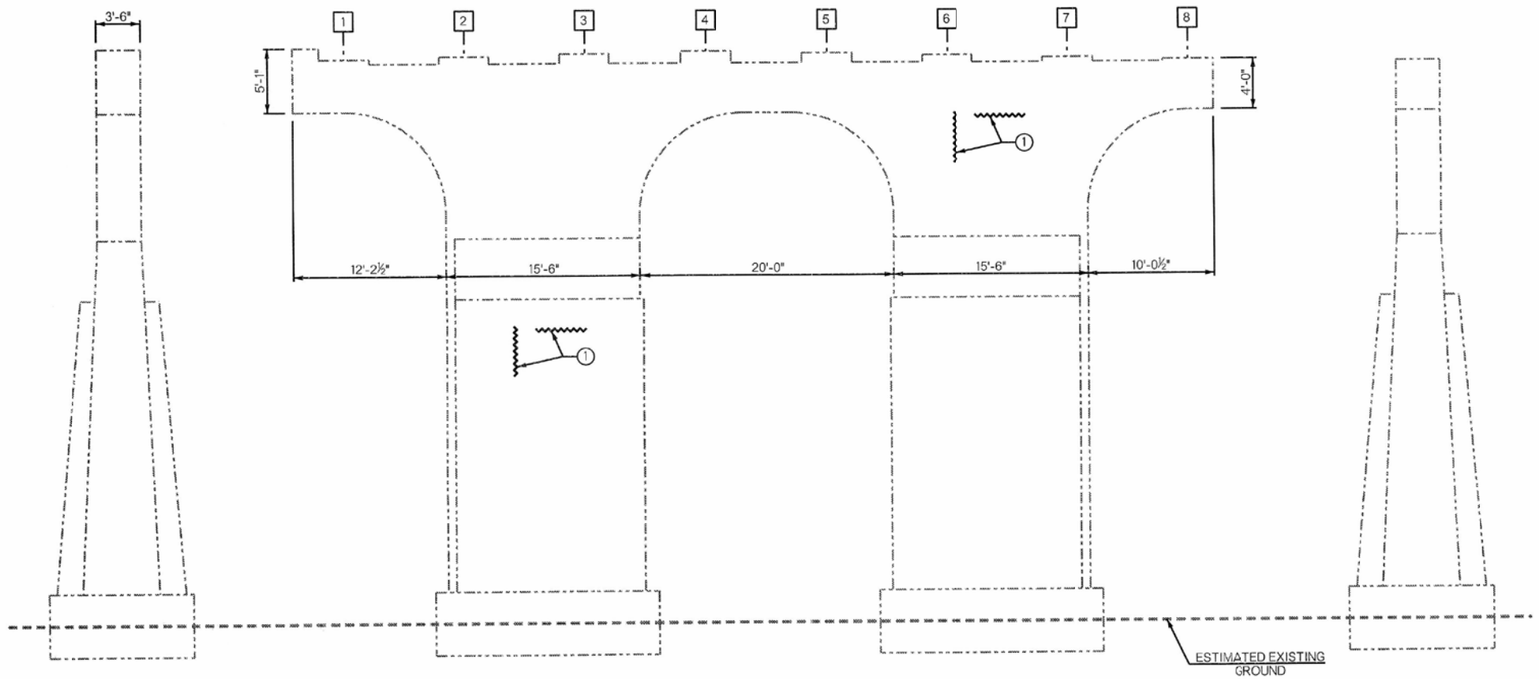
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END NORTH COLUMN SCUTH COLUMN SOUTH END

PIER NO. 5 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOJT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 9 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

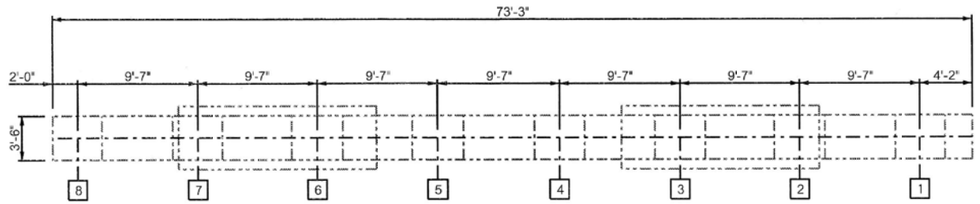
LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/14/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
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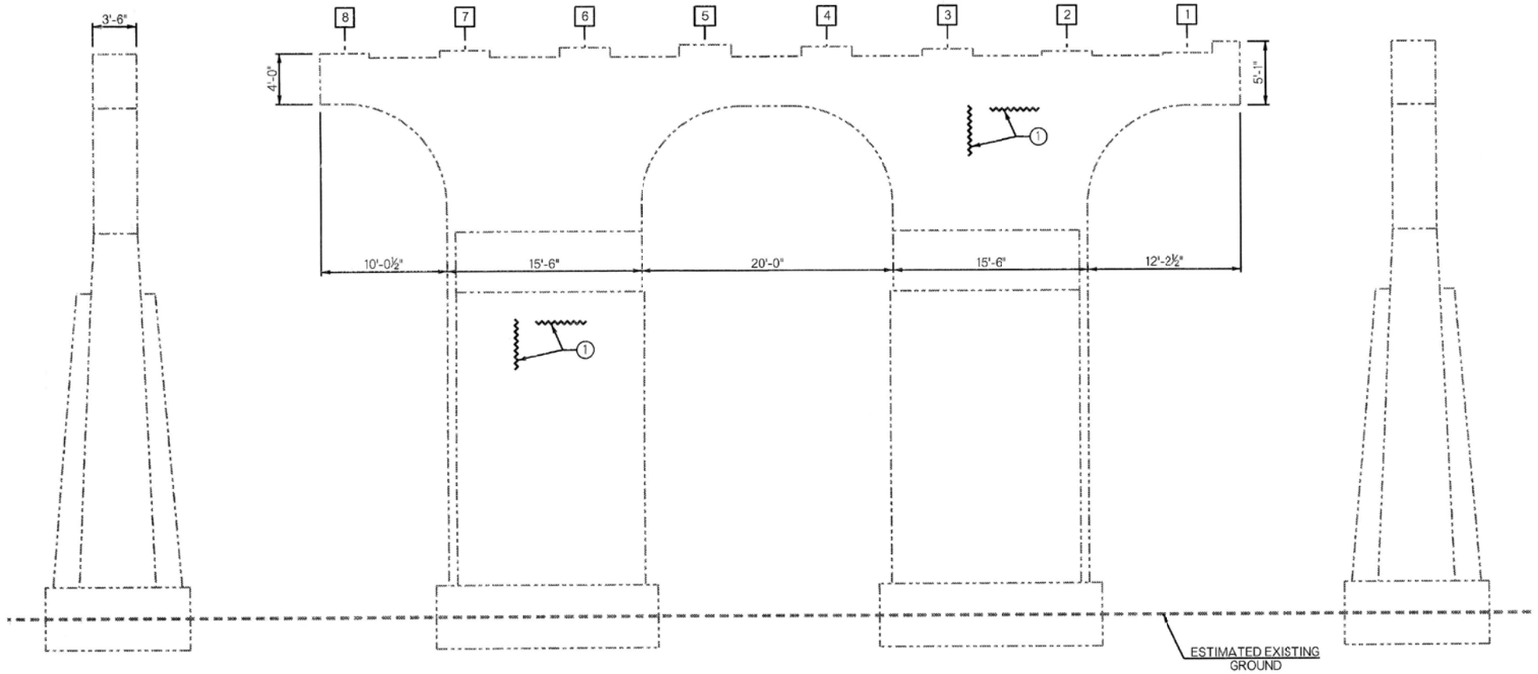
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TOP FACE PLAN



BOTTOM FACE PLAN



SOUTH END | SOUTH COLUMN | NORTH COLUMN | NORTH END

PIER NO. 5 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 10 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
HAS 8-26
DESIGN MANAGER

CITY ENGINEER

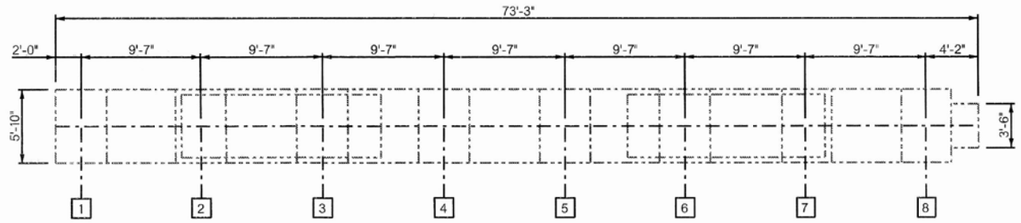
LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

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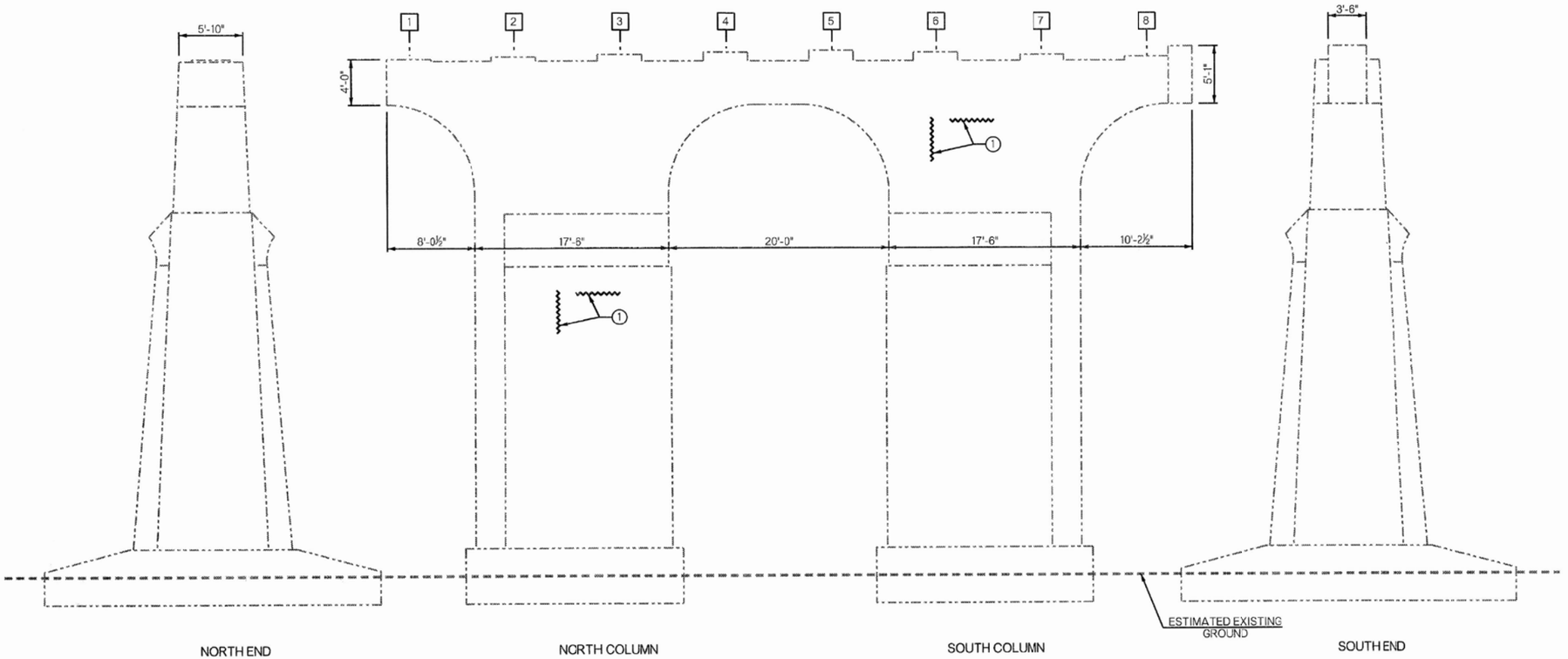
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 6 REPAIR DETAILS -WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 11 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-7-26
DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/14/26
22868
OKLAHOMA

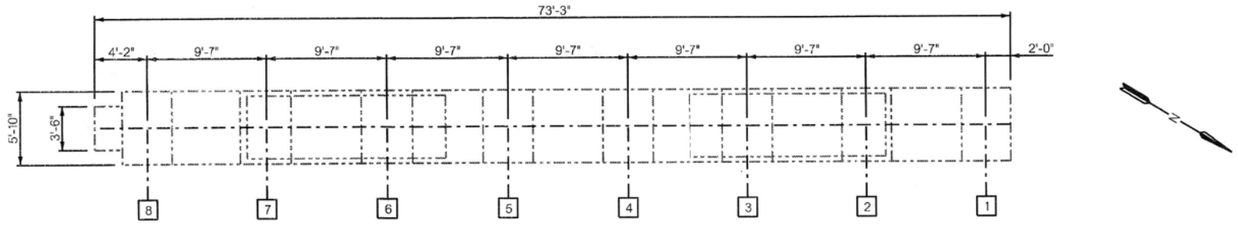
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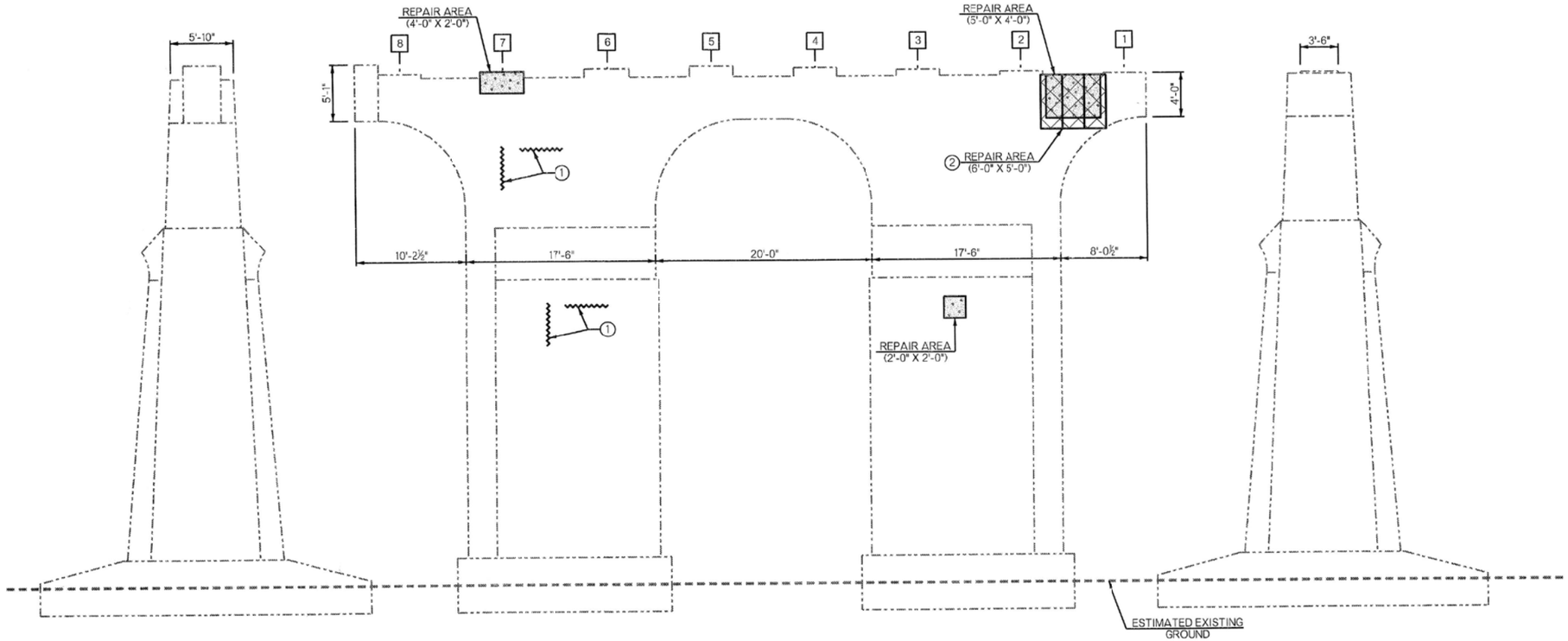
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 6 REPAIR DETAILS - EAST FACE

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 12 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

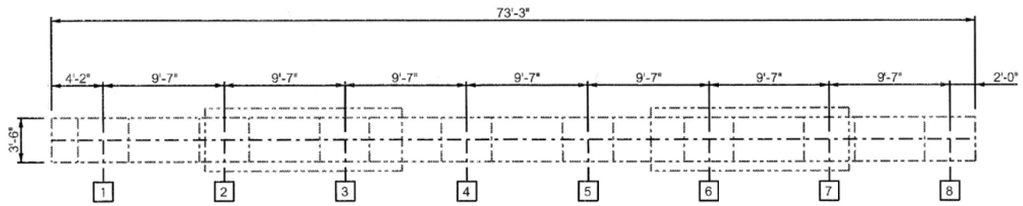
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PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 55 OF 99 SHEETS

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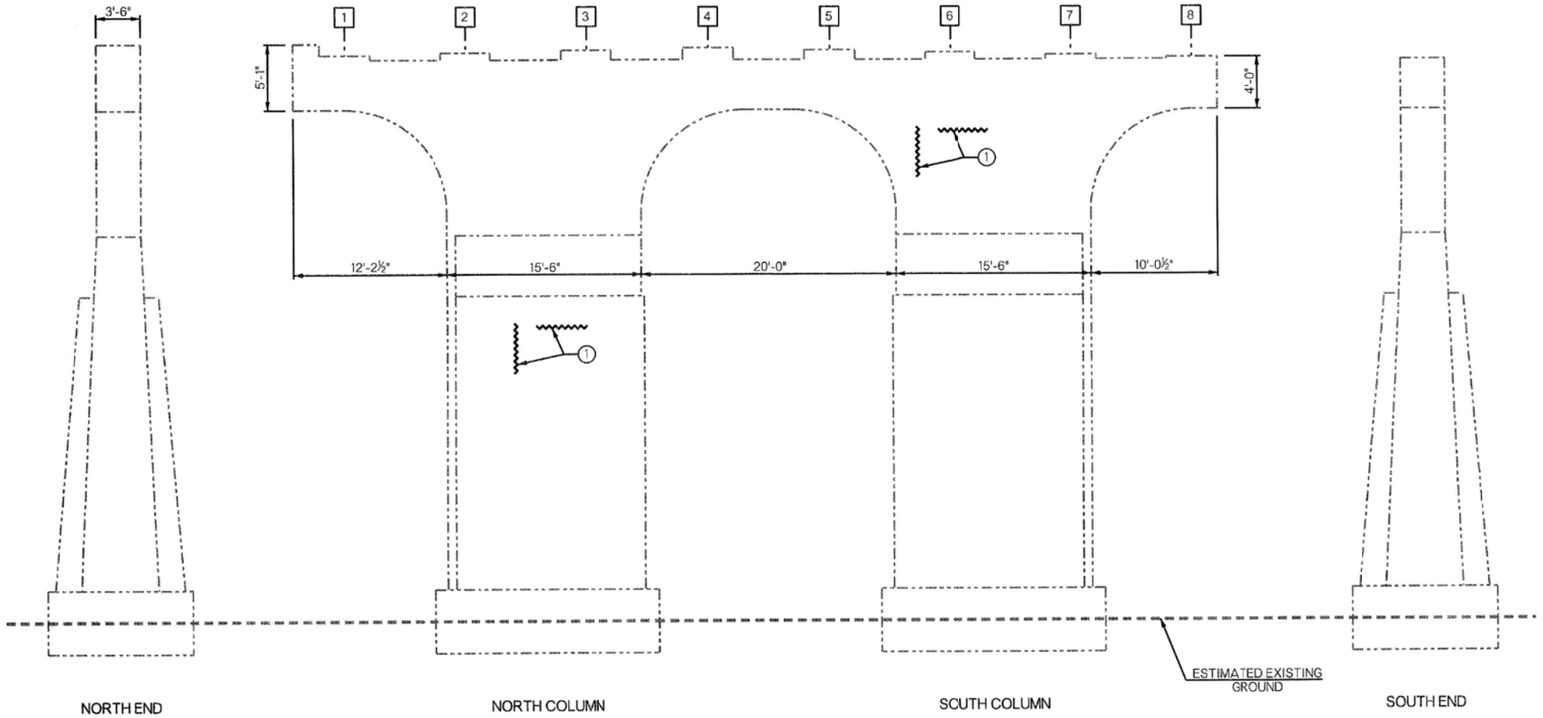
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 7 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 13 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/16	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:

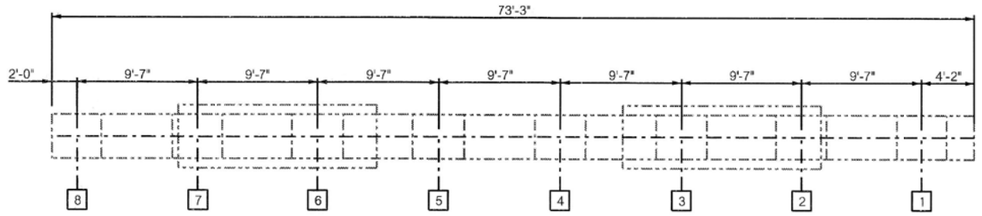
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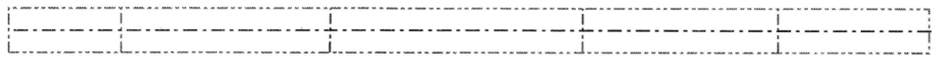
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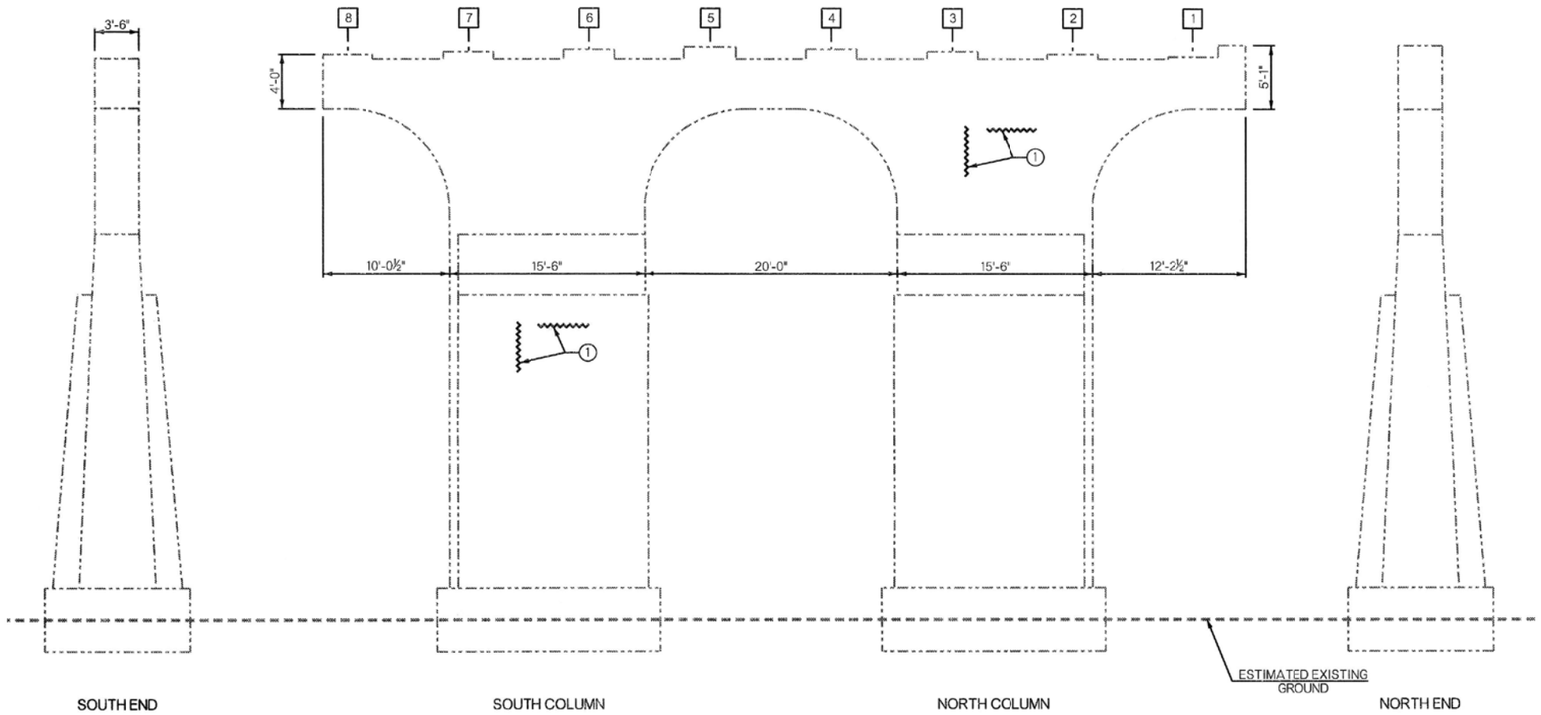
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 7 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 14 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE
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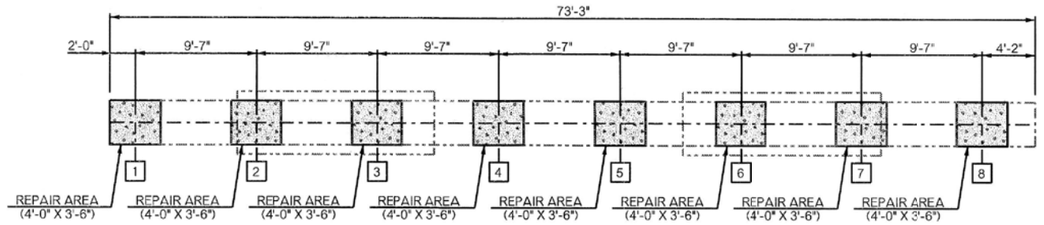
RECOMMENDED:
DESIGN MANAGER 7/28/26

CITY ENGINEER

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
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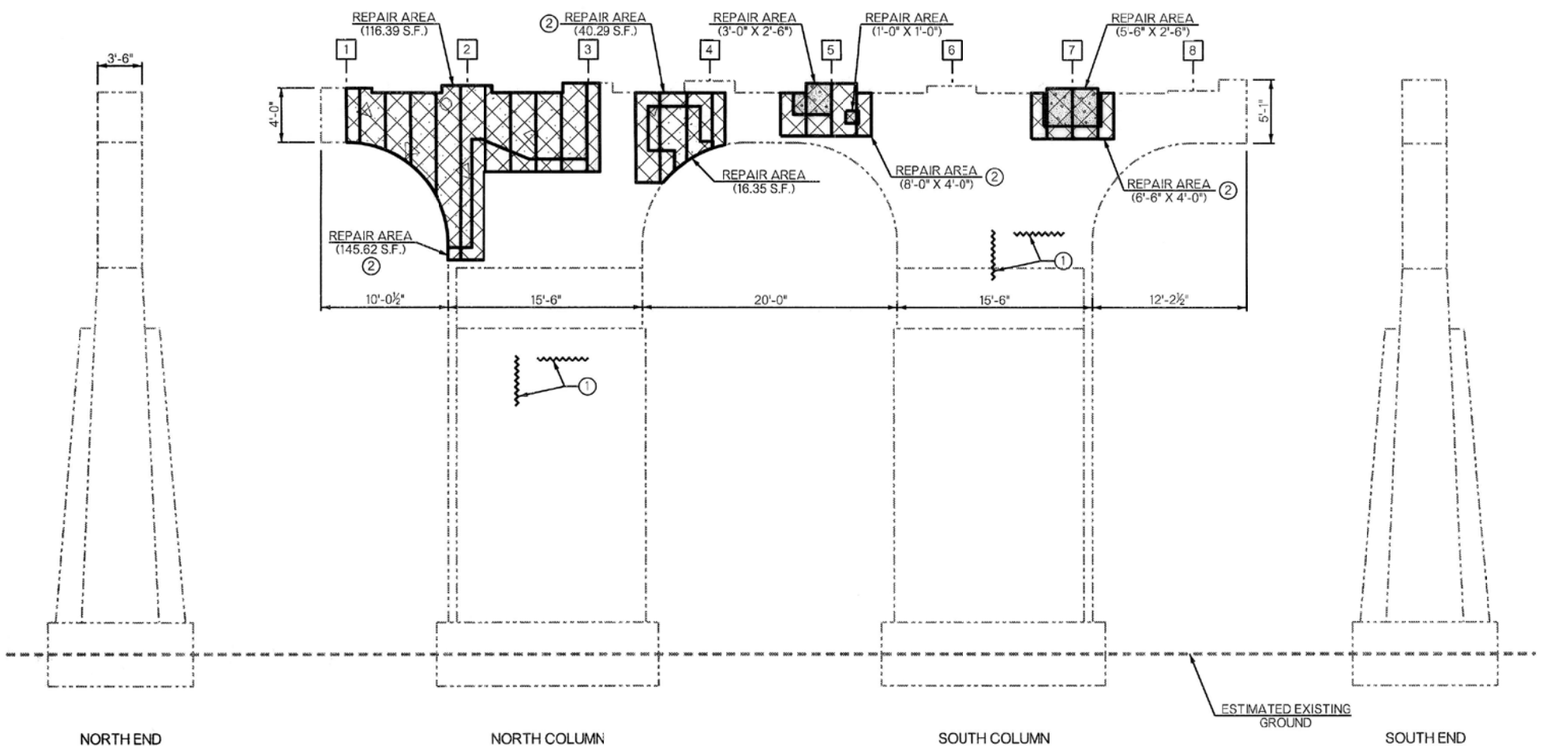
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 8 REPAIR DETAILS - WEST FACE

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522 OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 15 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

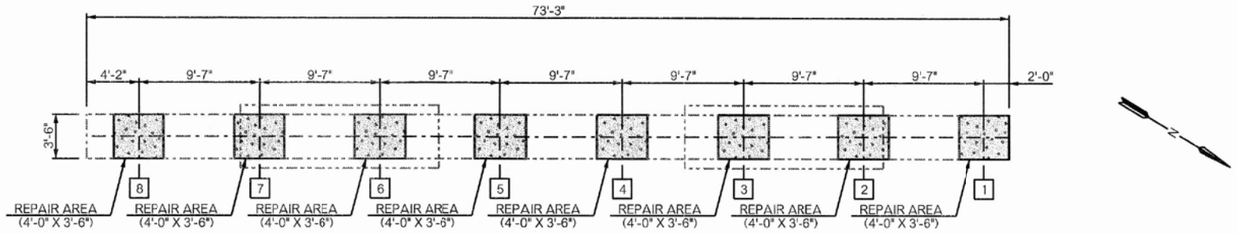
LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 7/14/26 — 22868 — OKLAHOMA

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FILE: DRAWING:
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ATLAS PAGE NO. 5, 16, 34, 35
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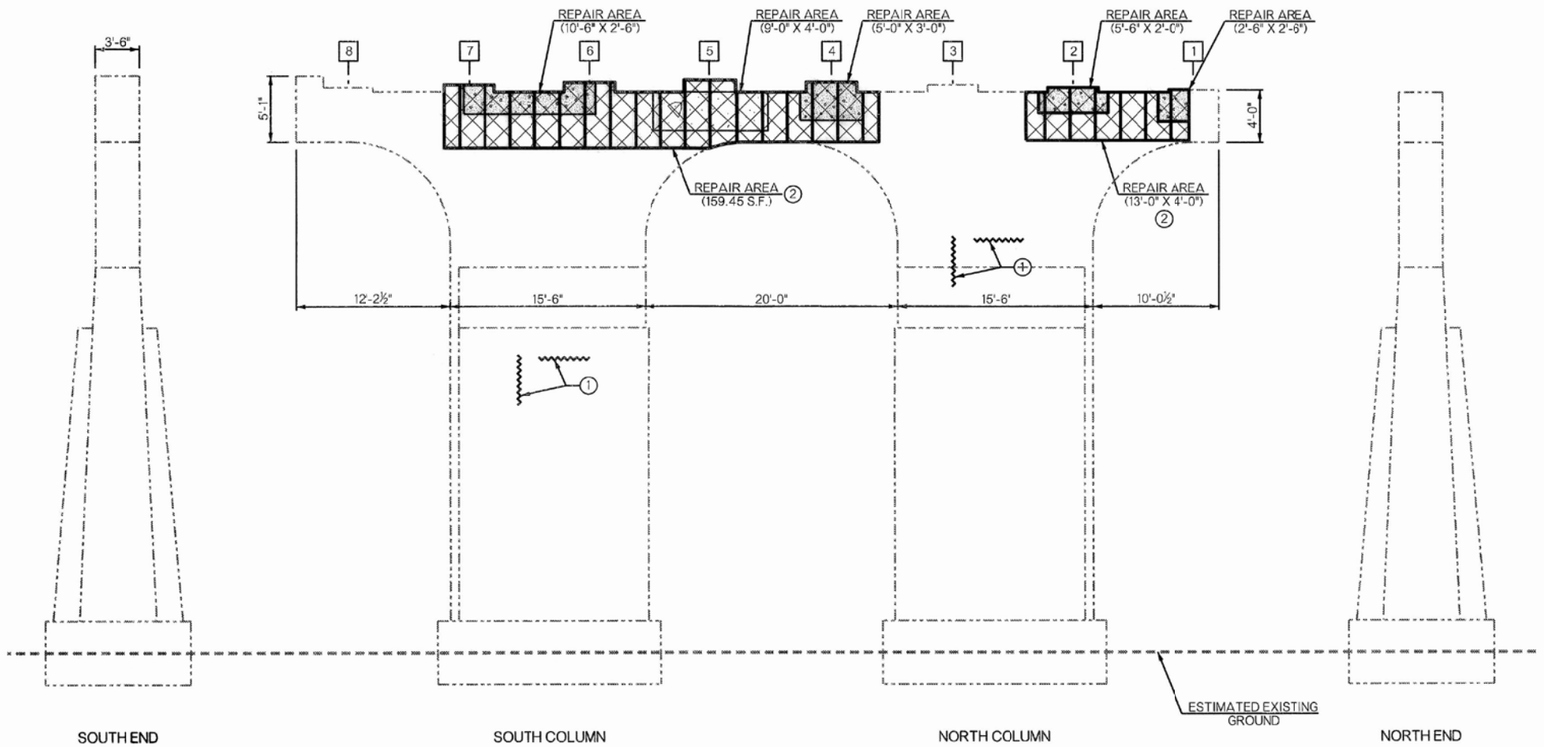
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 8 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 69 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR CR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 16 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
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CITY ENGINEER

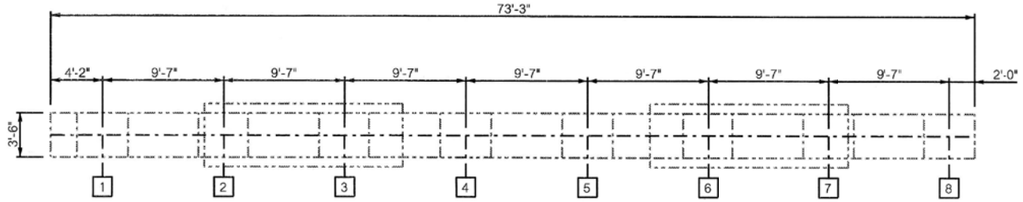
LICENSED PROFESSIONAL ENGINEER — Bradley Randall Thompson — 7/14/26 — 22868 — OKLAHOMA

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FILE: DRAWING: DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35 SHEET 59 OF 99 SHEETS

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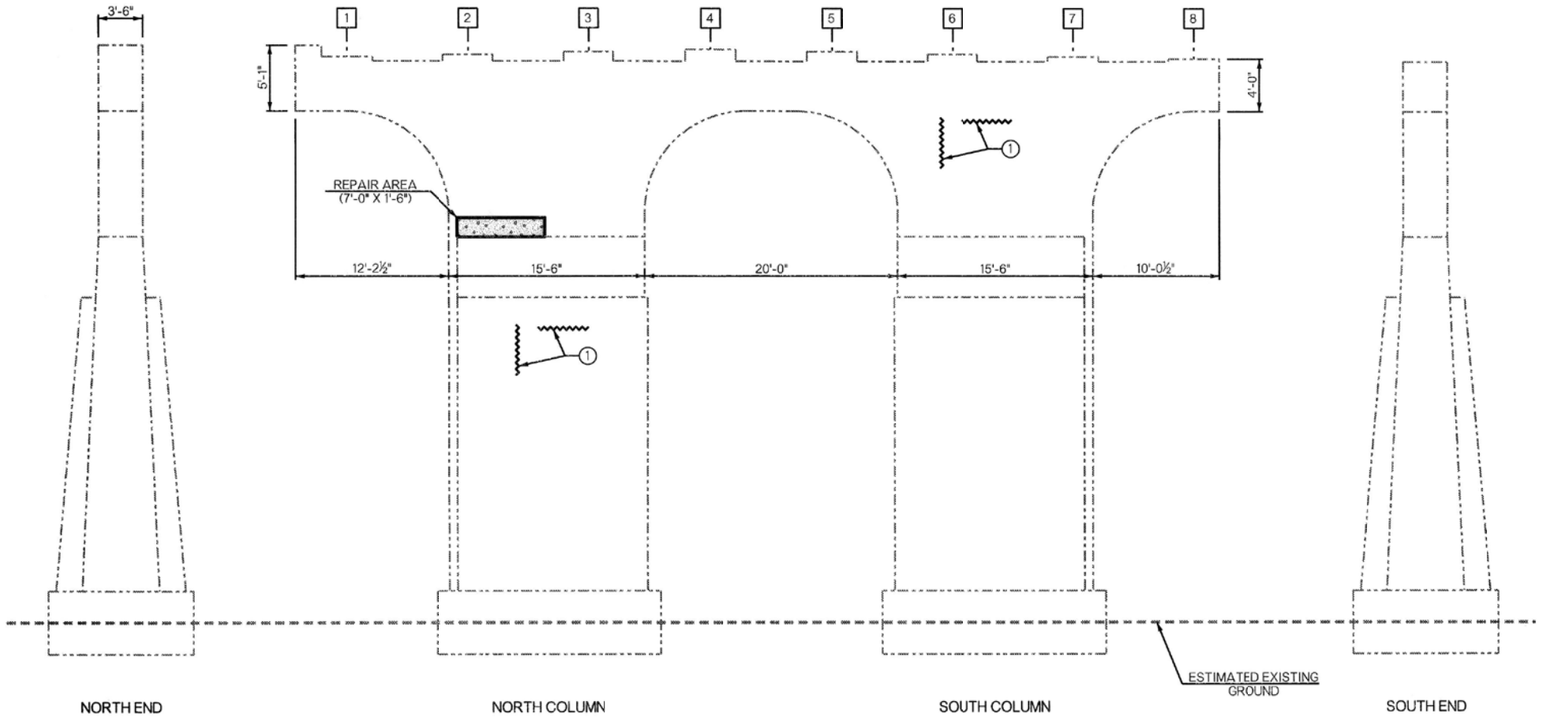
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 9 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 17 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

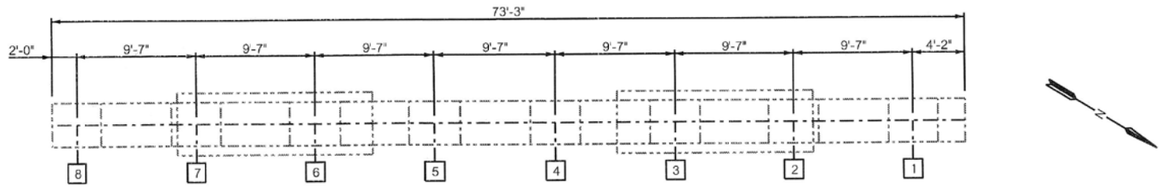
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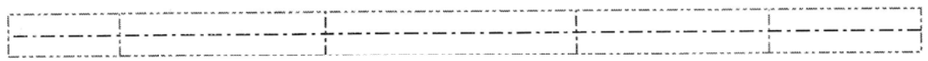
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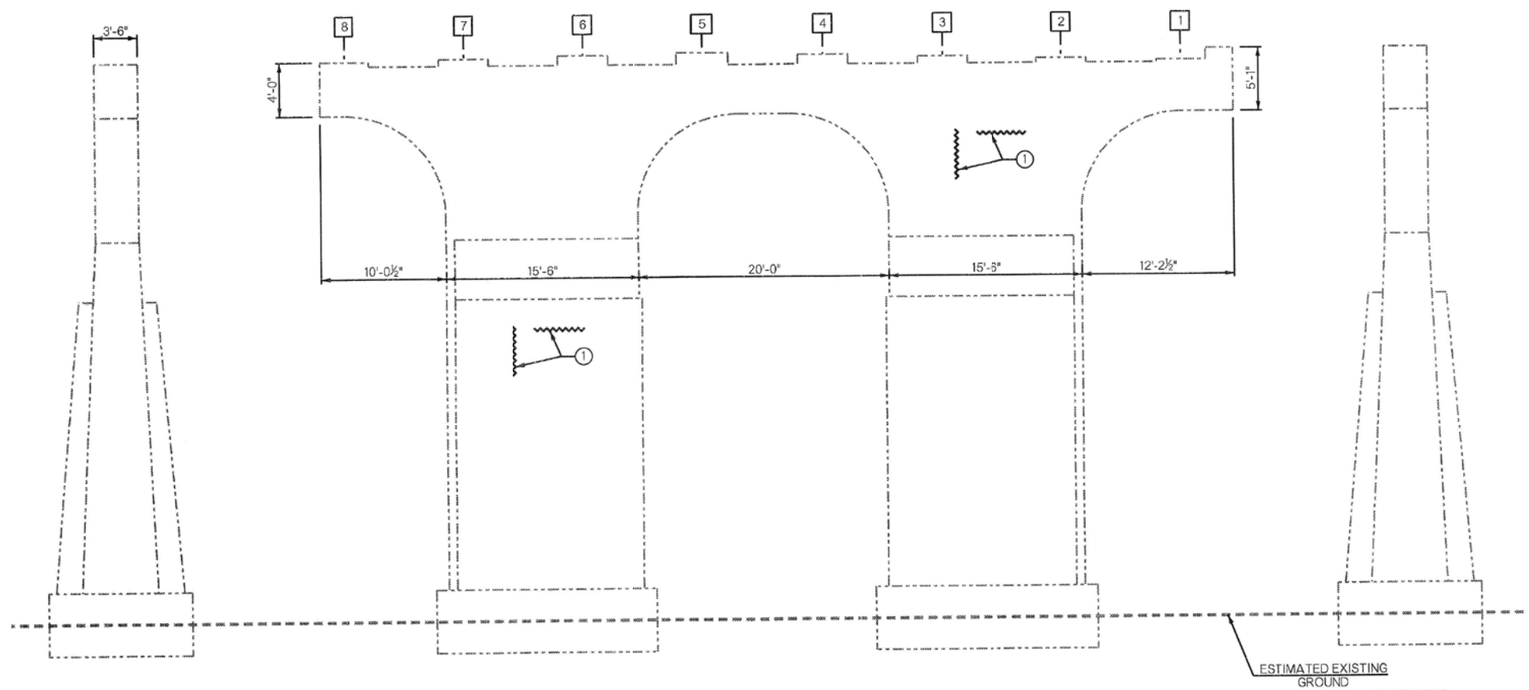
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 9 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-6543 CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 18 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

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VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

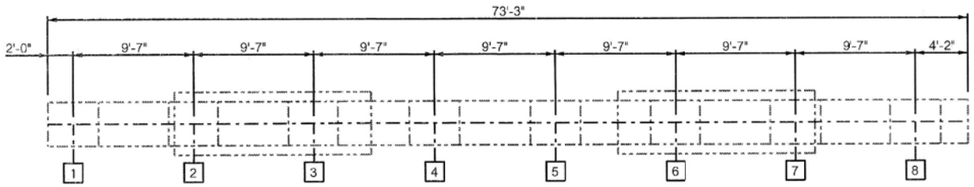
LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/14/26
22868
OKLAHOMA

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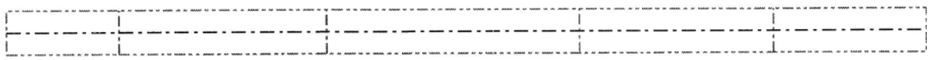
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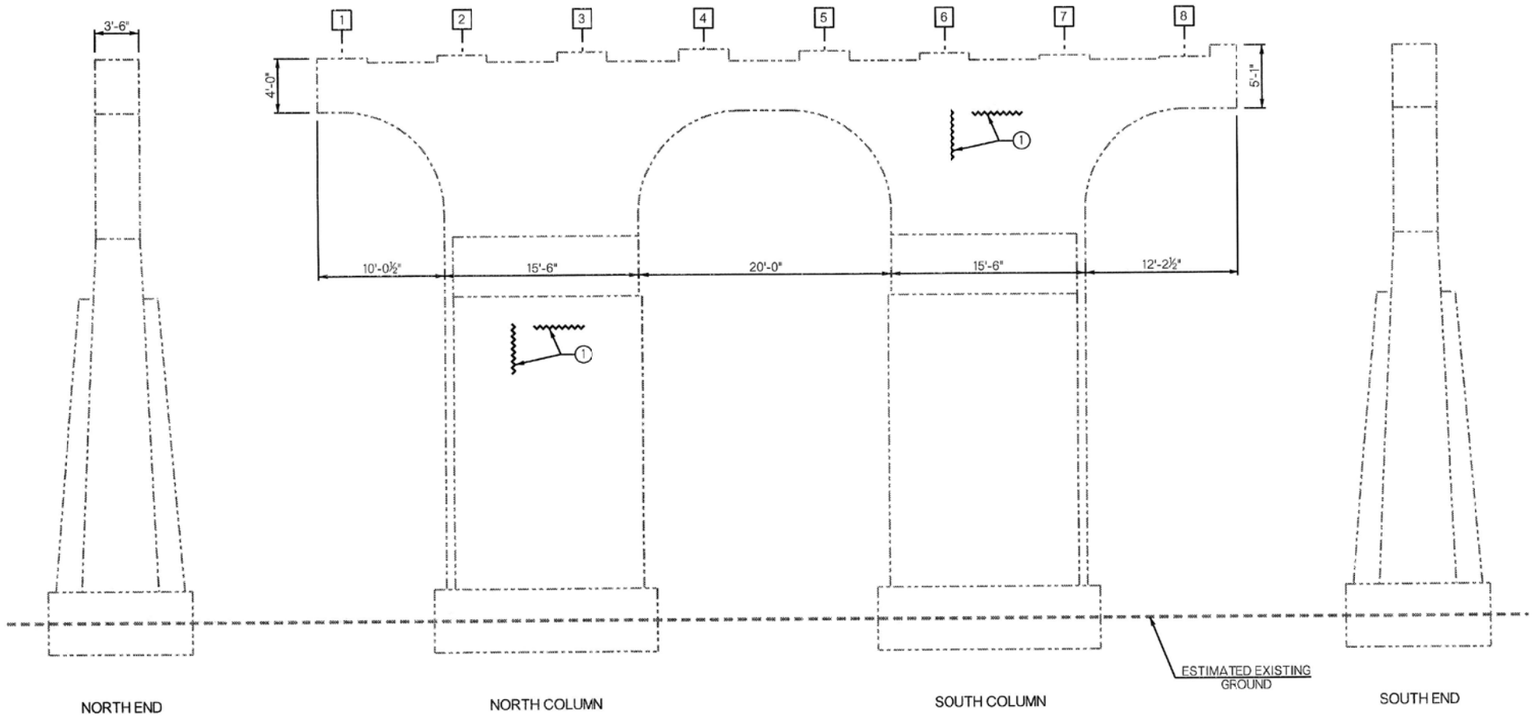
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END | NORTH COLUMN | SOUTH COLUMN | SOUTH END

PIER NO. 10 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 19 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

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DESIGN MANAGER

CITY ENGINEER

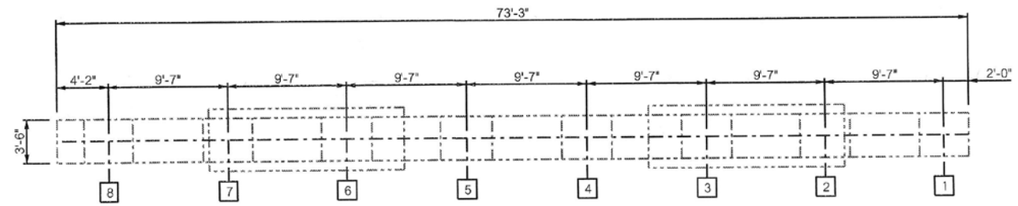
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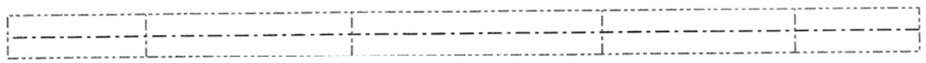
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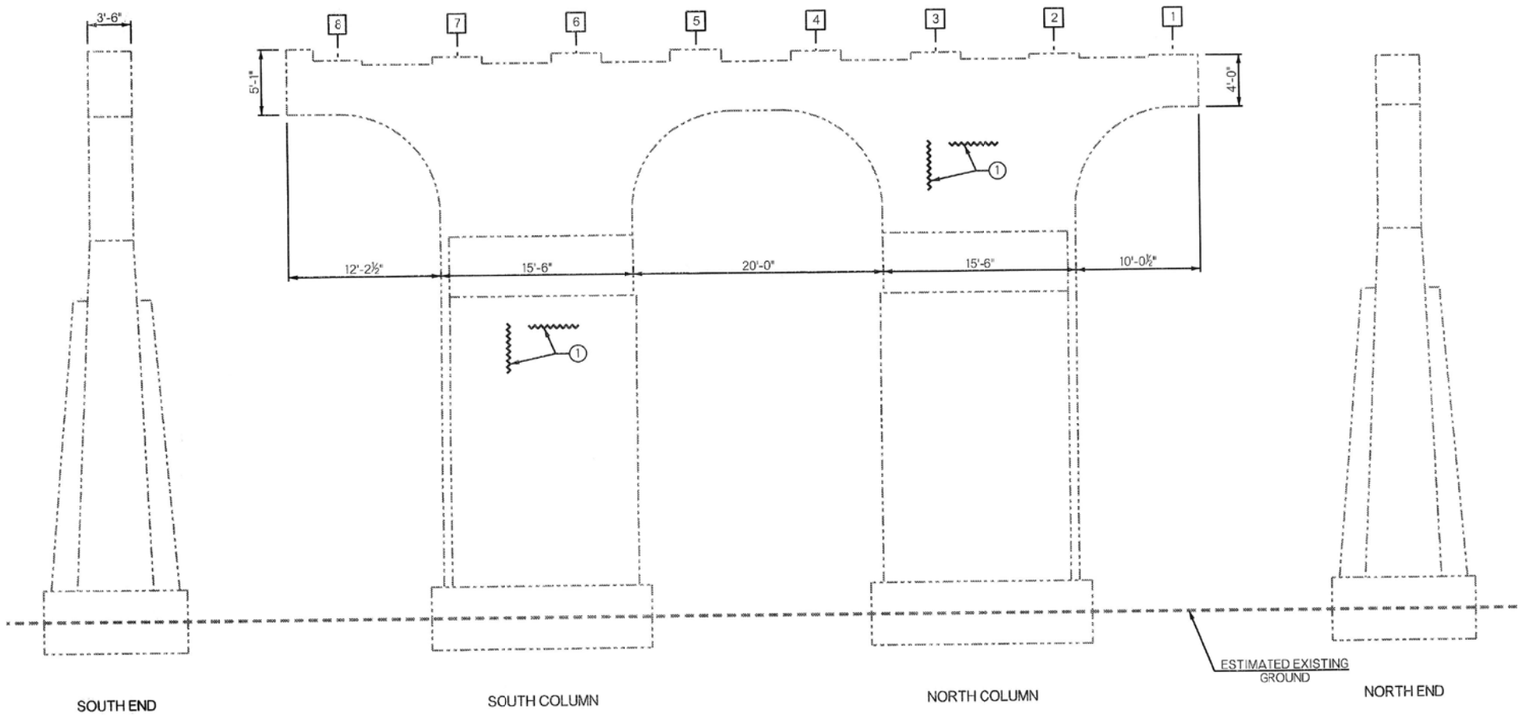
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 10 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 20 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (913) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8.26
DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

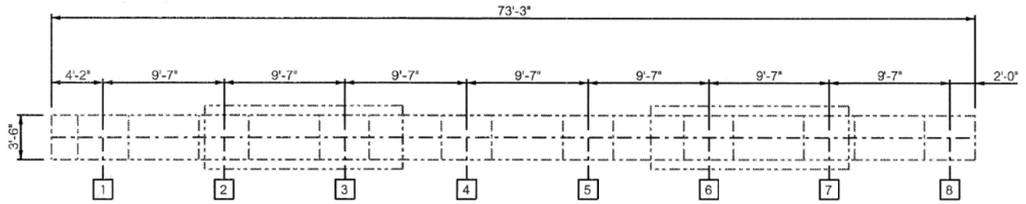
ADVERTISE DATE:

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DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 63 OF 99 SHEETS

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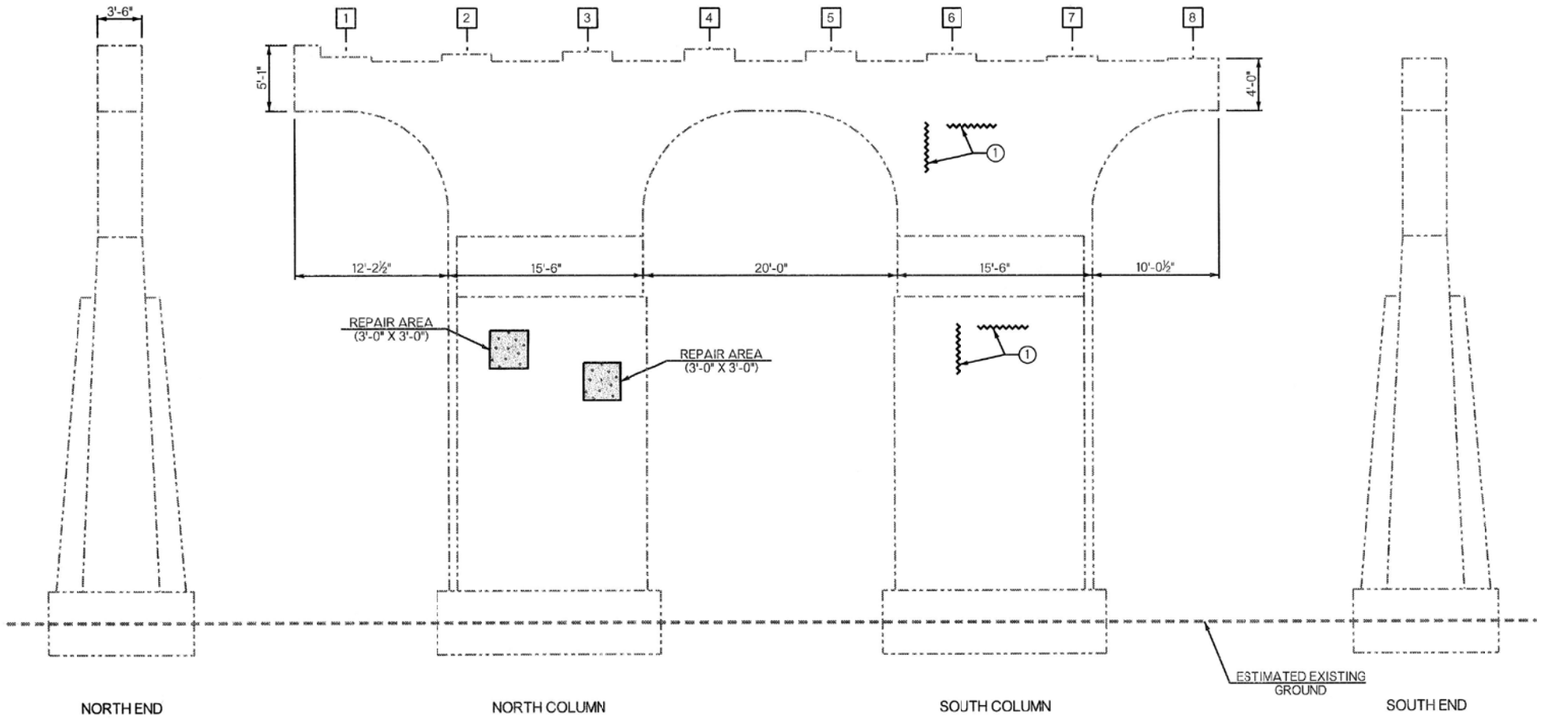
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END NORTH COLUMN SOUTH COLUMN SOUTH END

PIER NO. 11 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 21 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.	EAS	8/26	

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

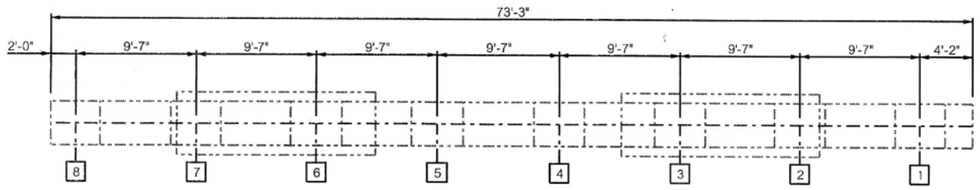
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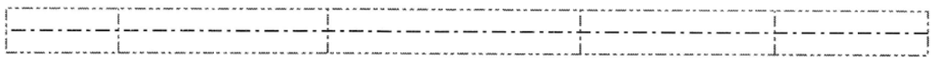
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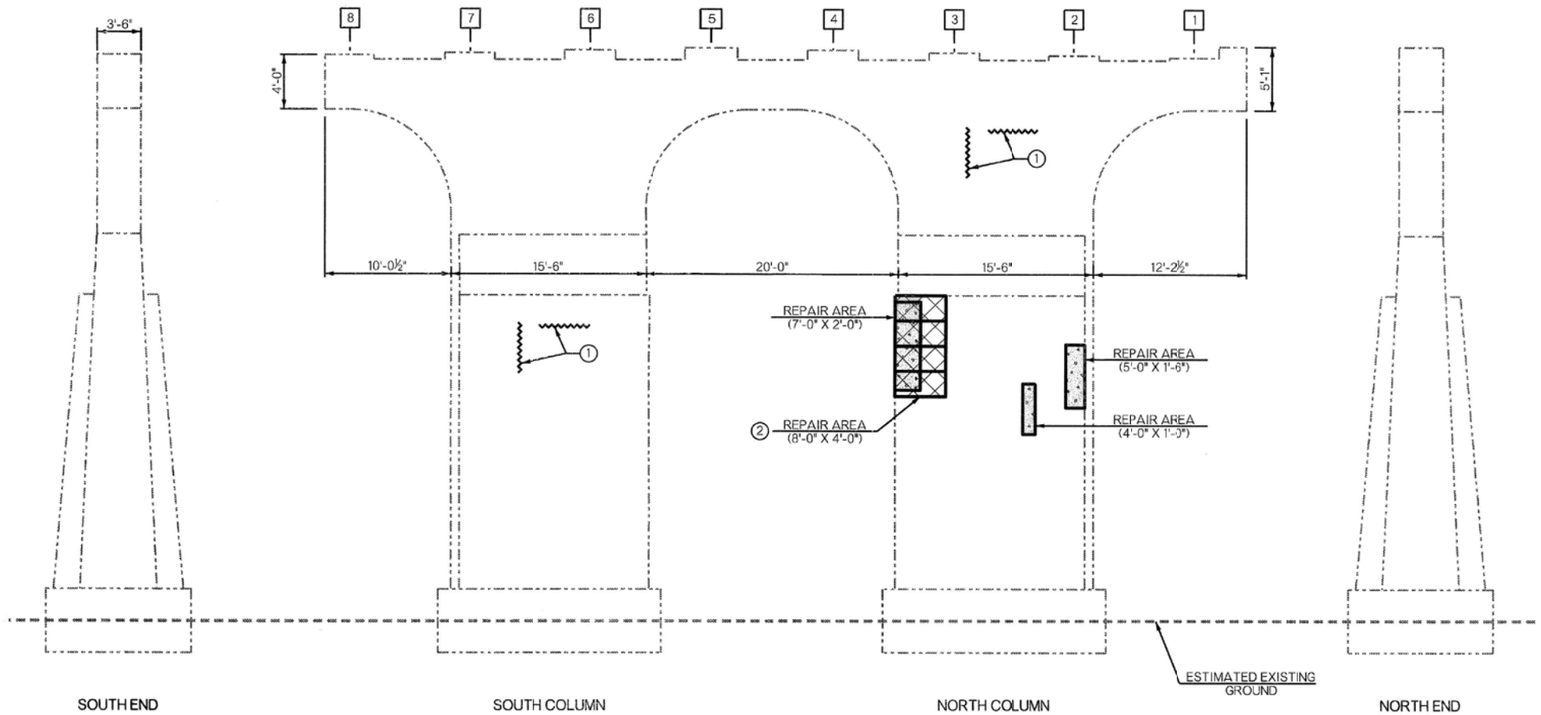
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 11 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 22 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		7/26	
RECOMMENDED:			
DESIGN MANAGER			CITY ENGINEER

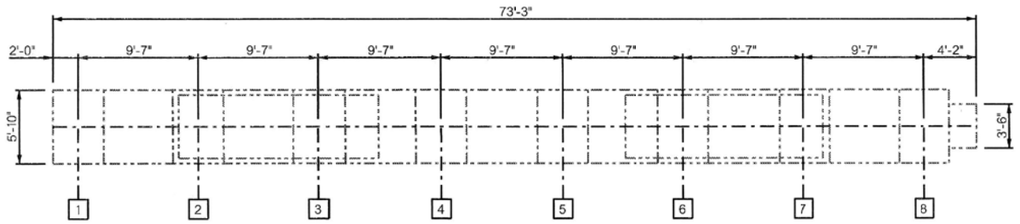
PLAN SCALE
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HORIZONTAL:
VERTICAL:

FILE: DRAWING: DATE: 10/12/2026

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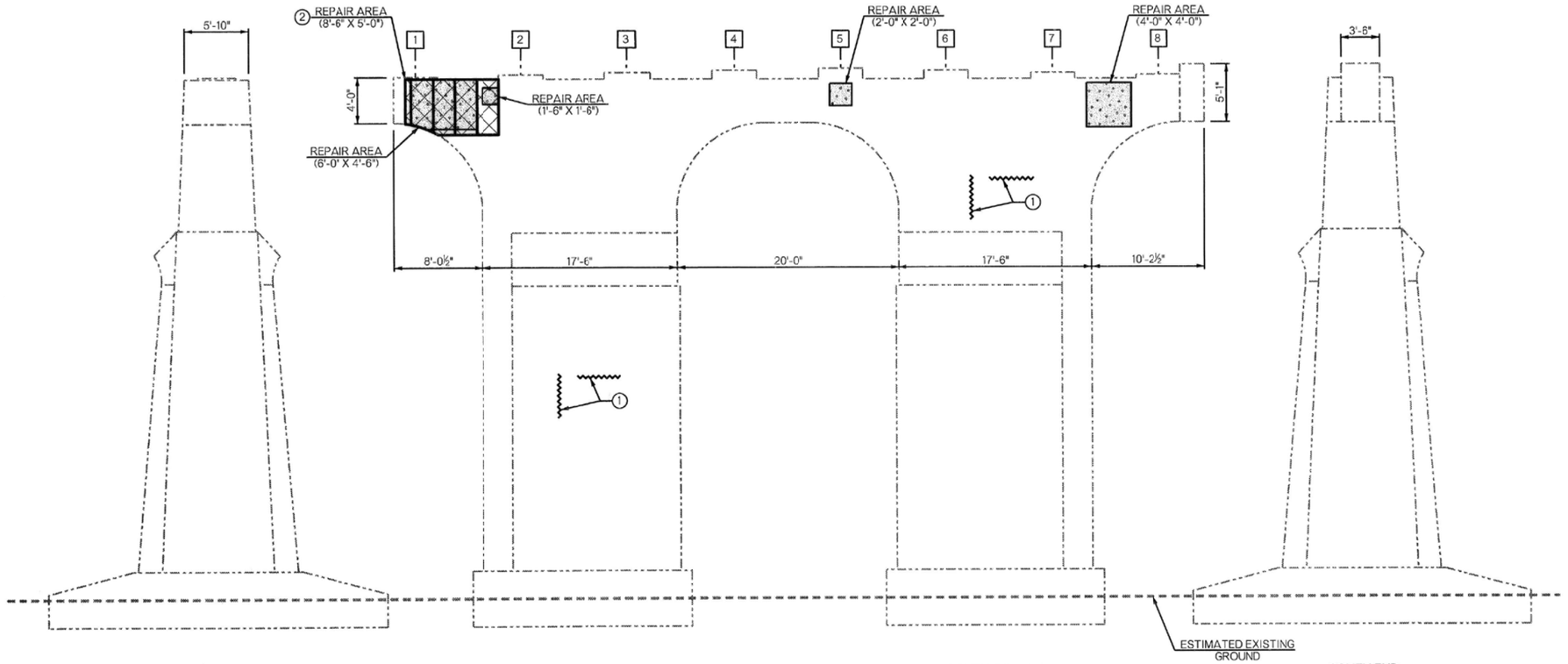
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 12 REPAIR DETAILS - WEST FACE

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED PCLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJJST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 23 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		
RECOMMENDED:		

APPROVED:

PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:

HAS 8-26
DESIGN MANAGER

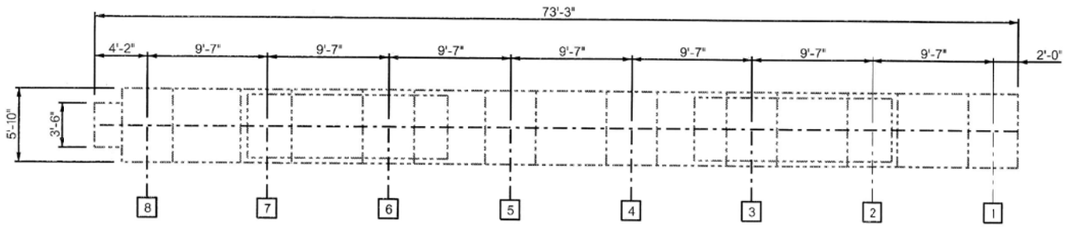
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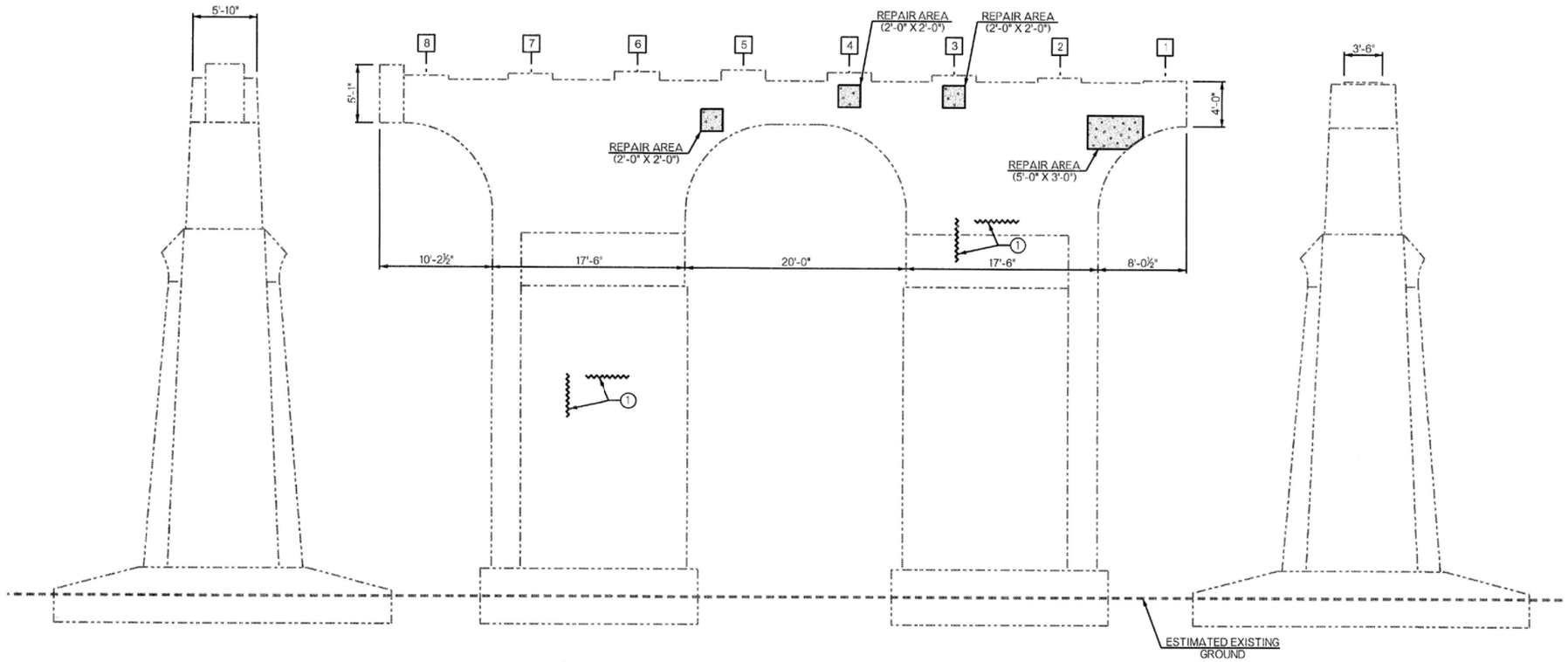
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 12 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 24 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

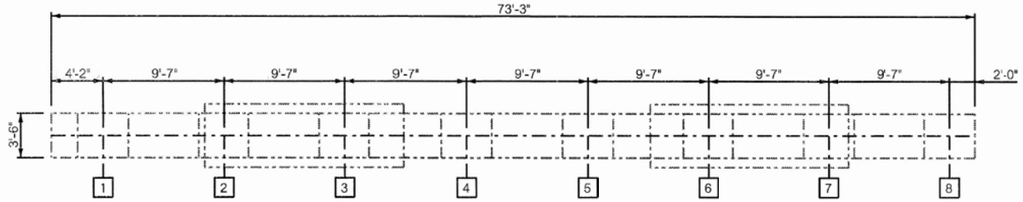
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DATE: 10/12/2026
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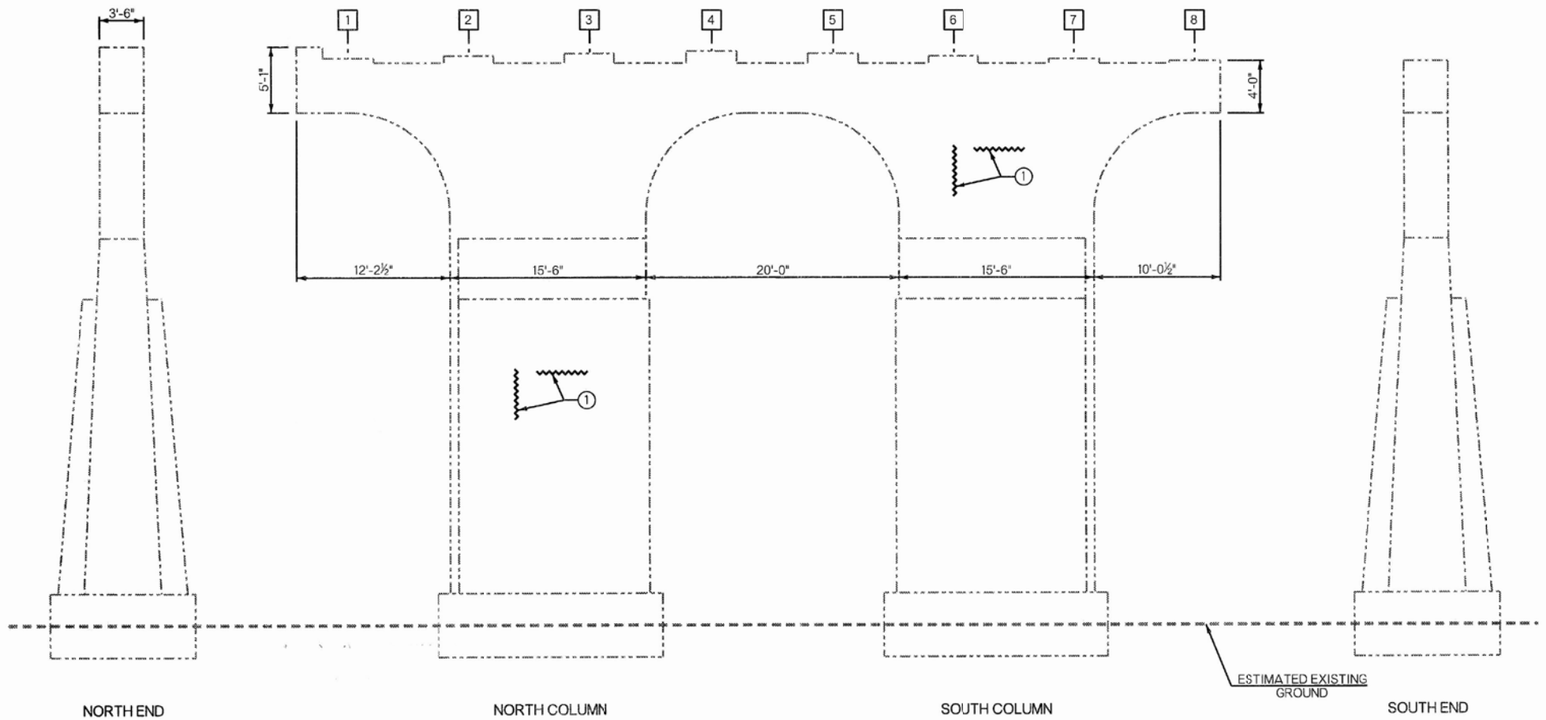
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 13 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUVMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 25 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

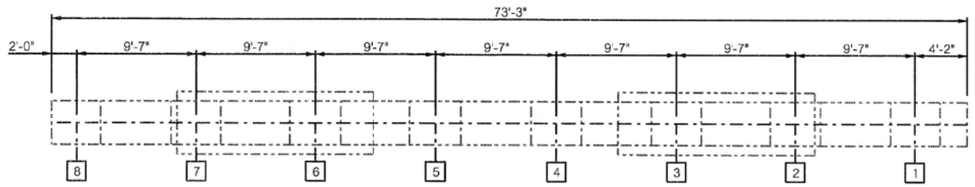
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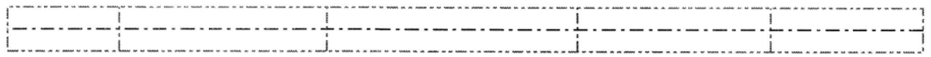
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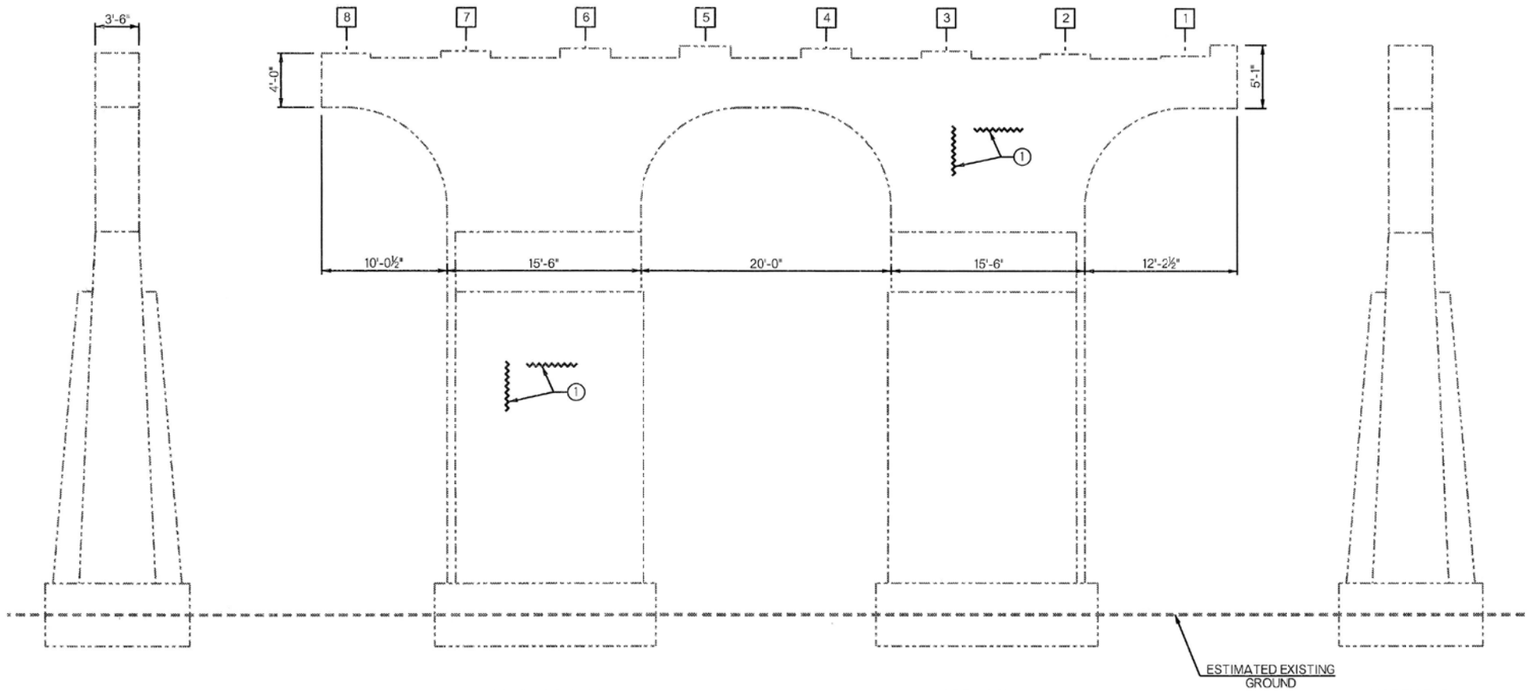
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 13 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 26 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	11/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

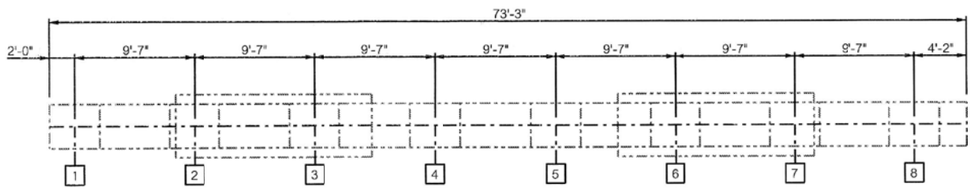
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DATE: 10/12/2026
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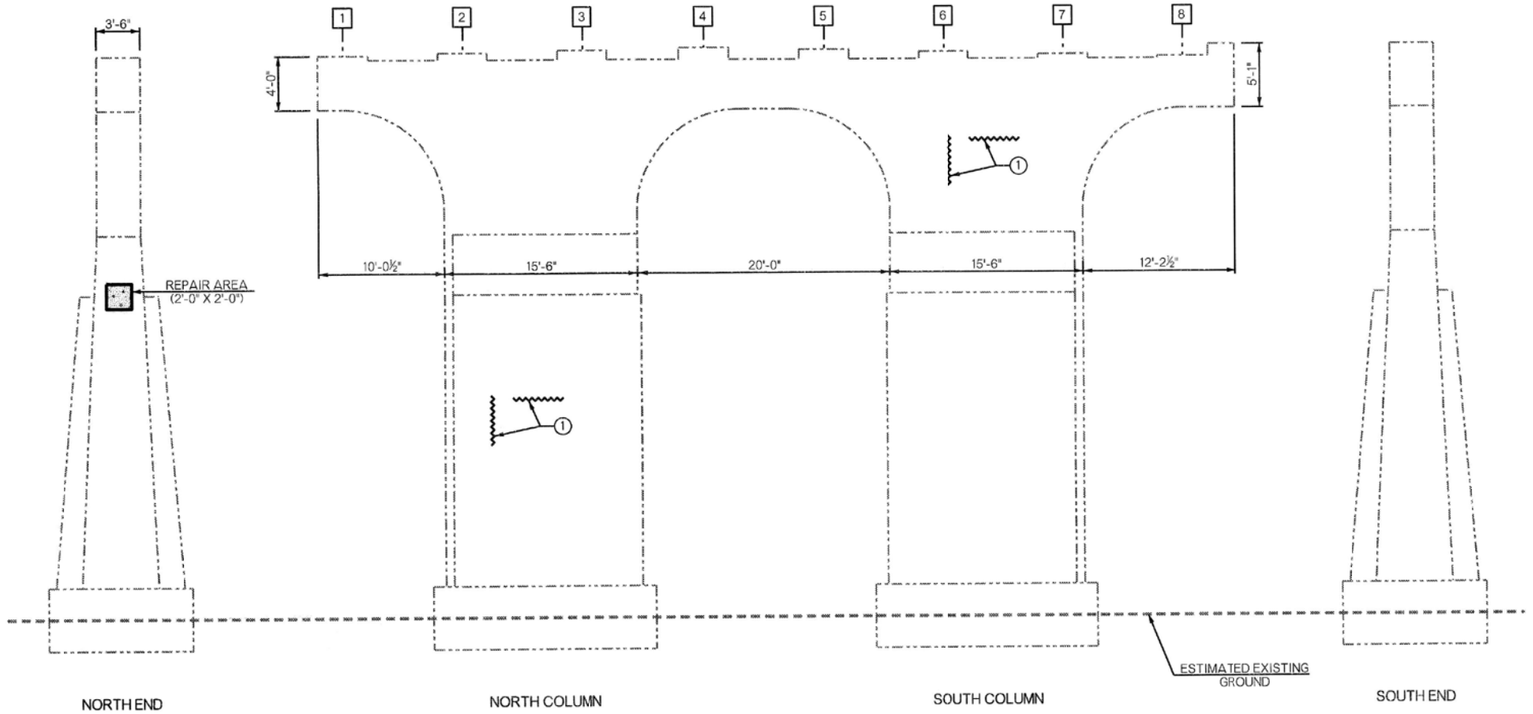
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 14 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 27 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/14/26
22868
OKLAHOMA

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

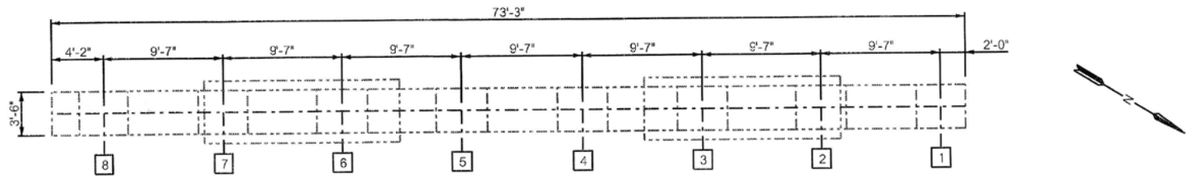
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VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER
DATE: 10/12/2026

ADVERTISE DATE:		
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FILE: DRAWING:
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 70 OF 99 SHEETS

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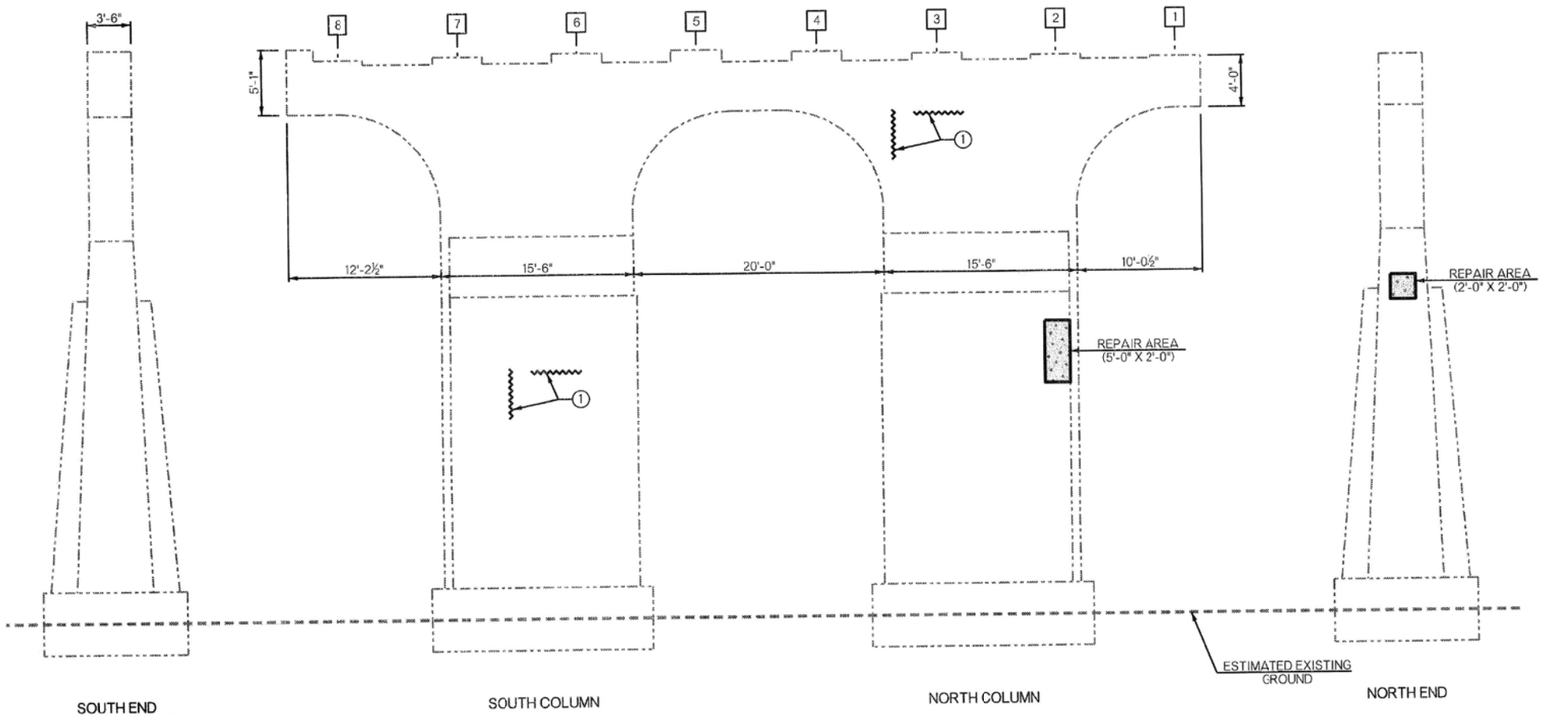
INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 14 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 28 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
HBS 8:26
DESIGN MANAGER

CITY ENGINEER

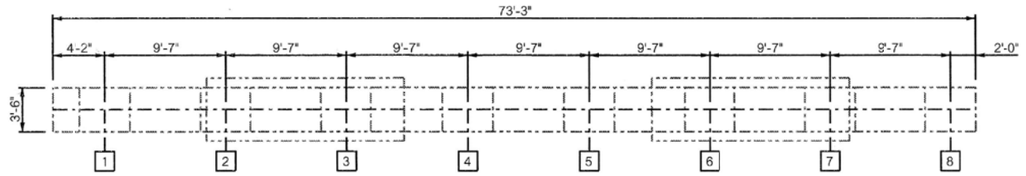
LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/7/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

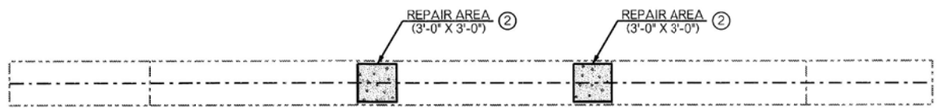
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DATE: 10/12/2026
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SHEET 71 OF 99 SHEETS

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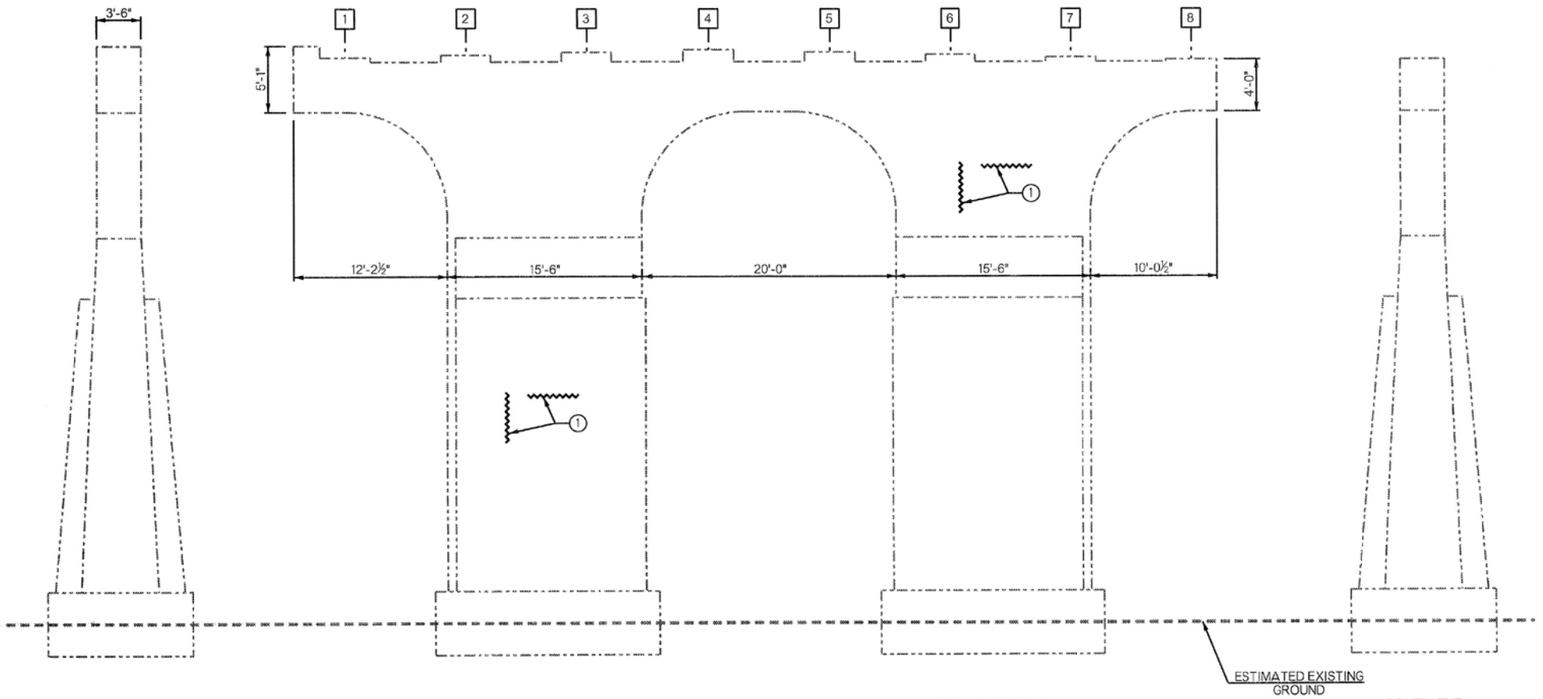
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 15 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:

ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 29 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE

PROFILE SCALE
HORIZONTAL:
VERTICAL:

RECOMMENDED:

HAS 8-26
DESIGN MANAGER

CITY ENGINEER

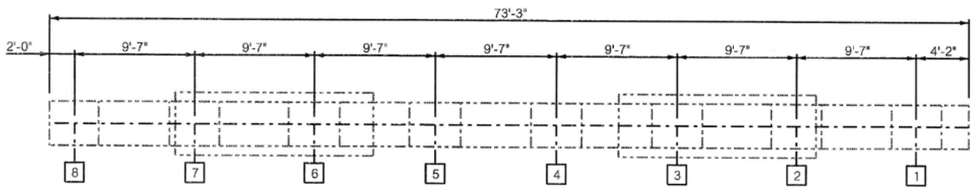
LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

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REVISION	BY	DATE

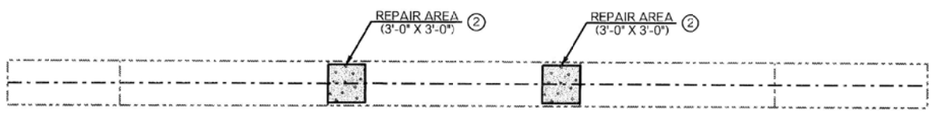
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ATLAS PAGE NO. 5, 16, 34, 35
SHEET 72 OF 99 SHEETS

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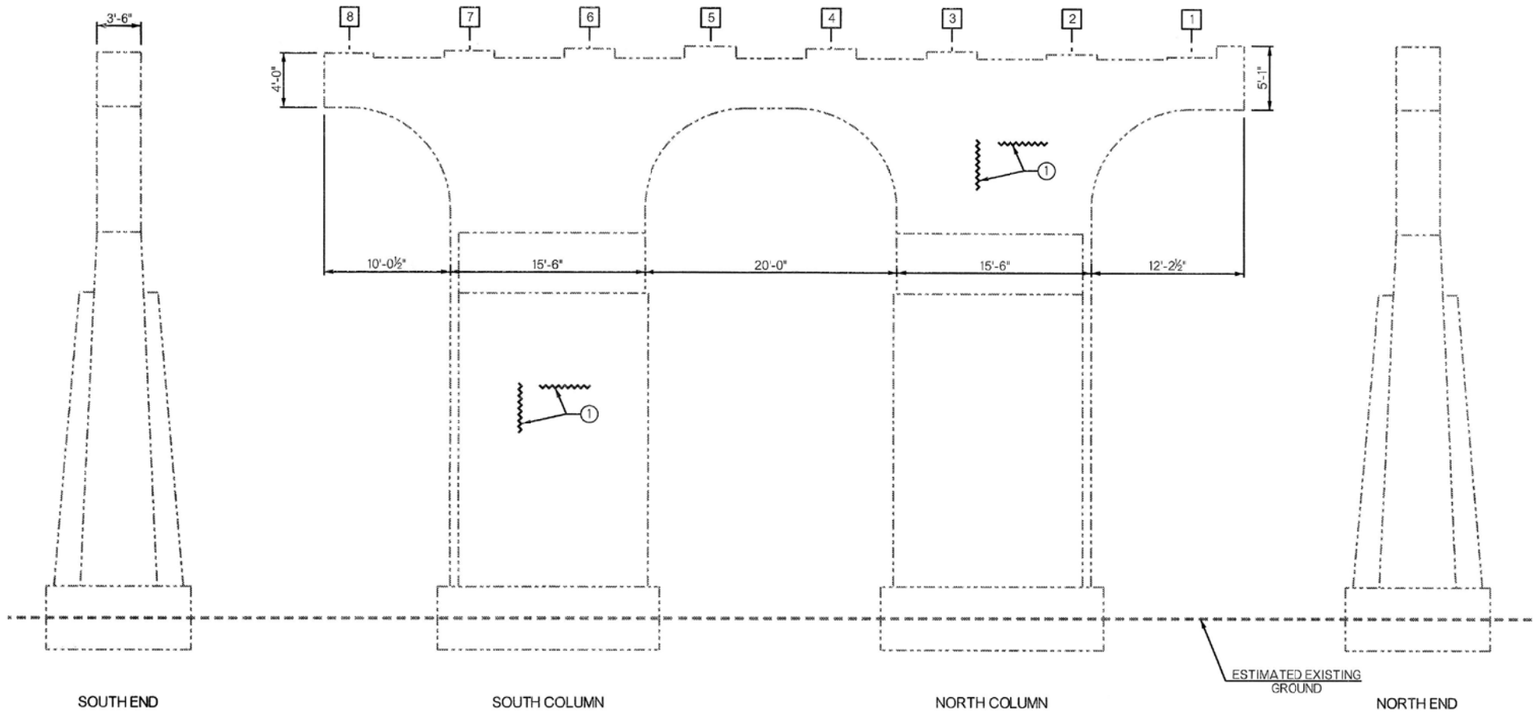
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 15 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
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SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 30 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER 8-26

CITY ENGINEER

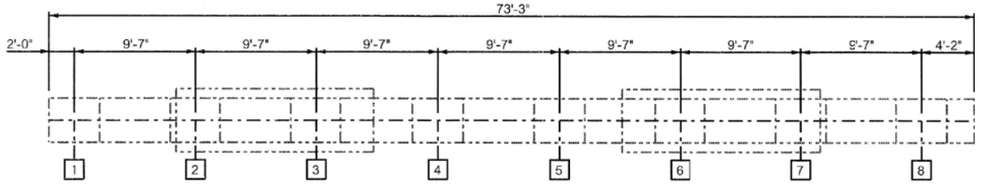
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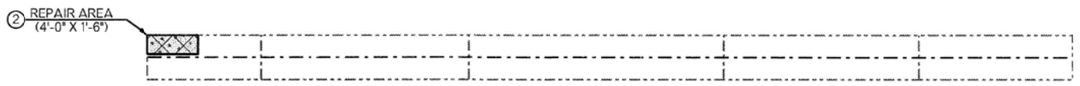
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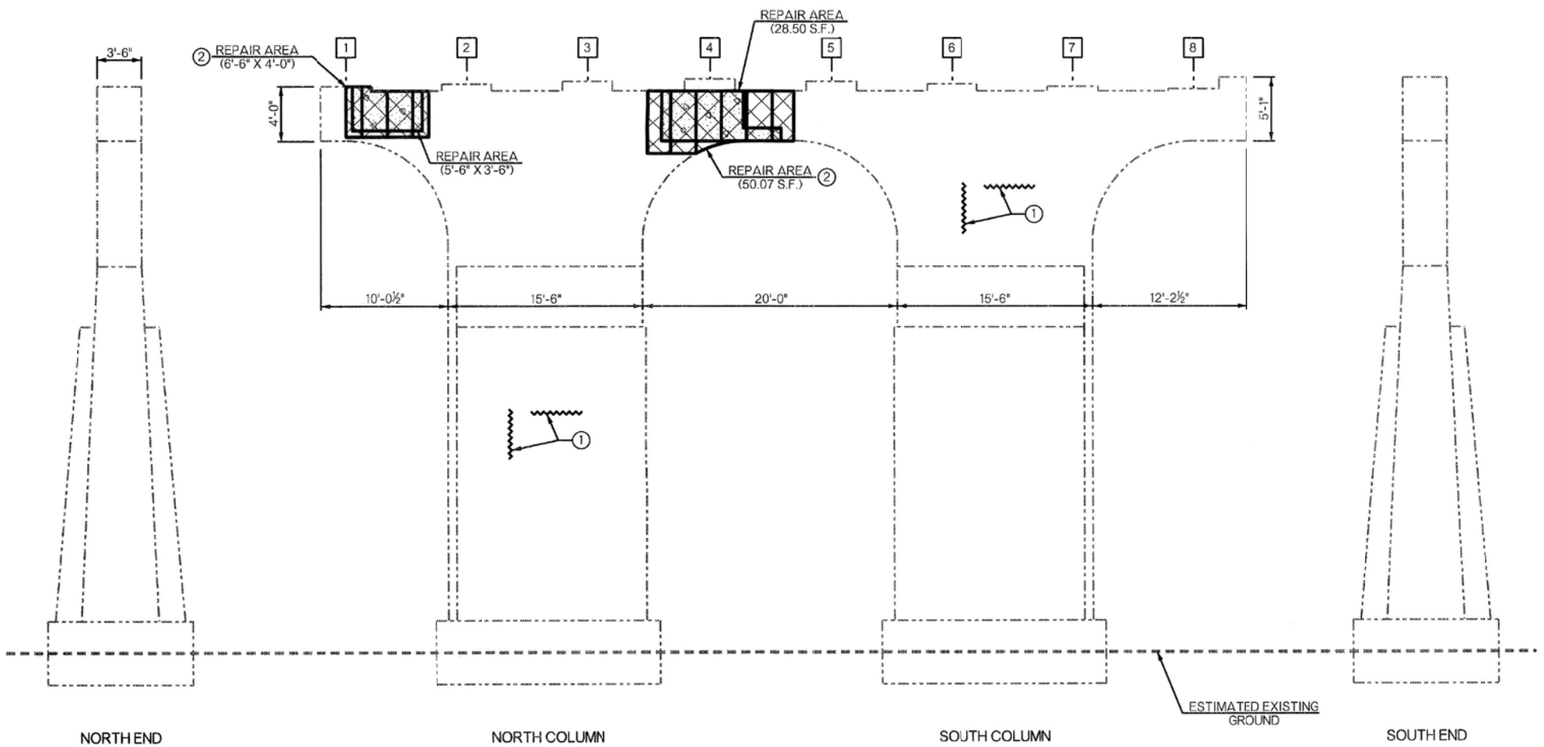
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TOP FACE PLAN



BOTTOM FACE PLAN



NORTH END | NORTH COLUMN | SOUTH COLUMN | SOUTH END

PIER NO. 16 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- CLASS A CONCRETE
- (SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
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SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522 OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22888 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 31 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

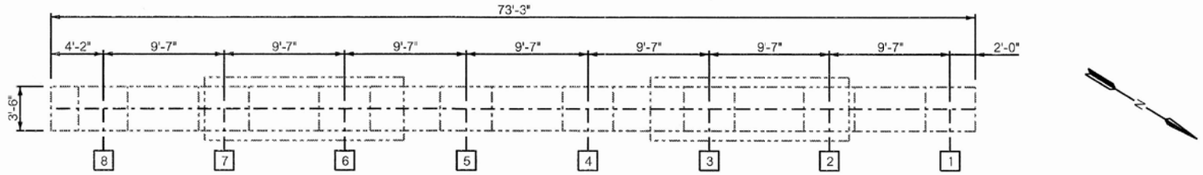
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DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

FILE: DRAWING: DATE: 10/12/2026
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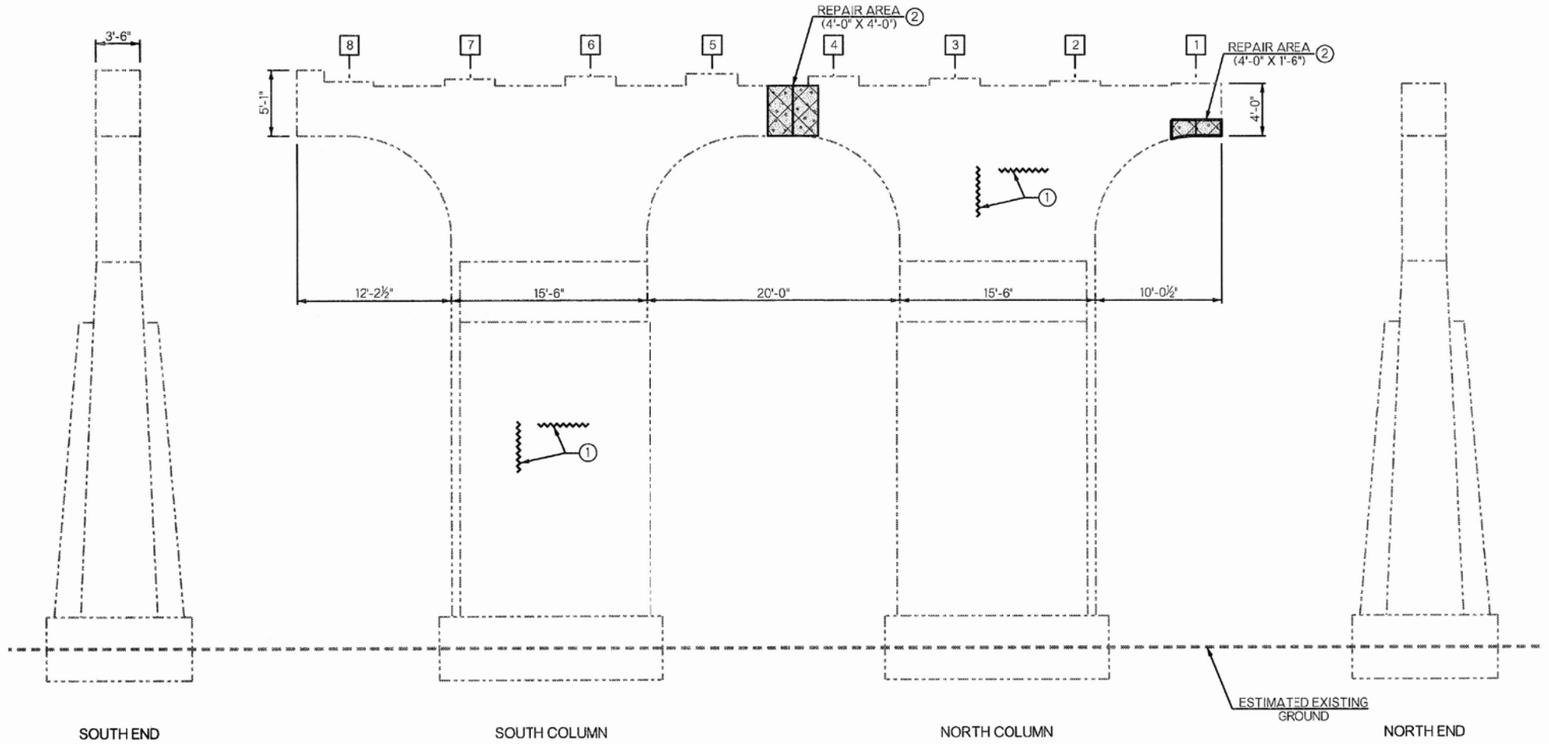
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 16 REPAIR DETAILS - EAST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
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SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 32 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 856-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
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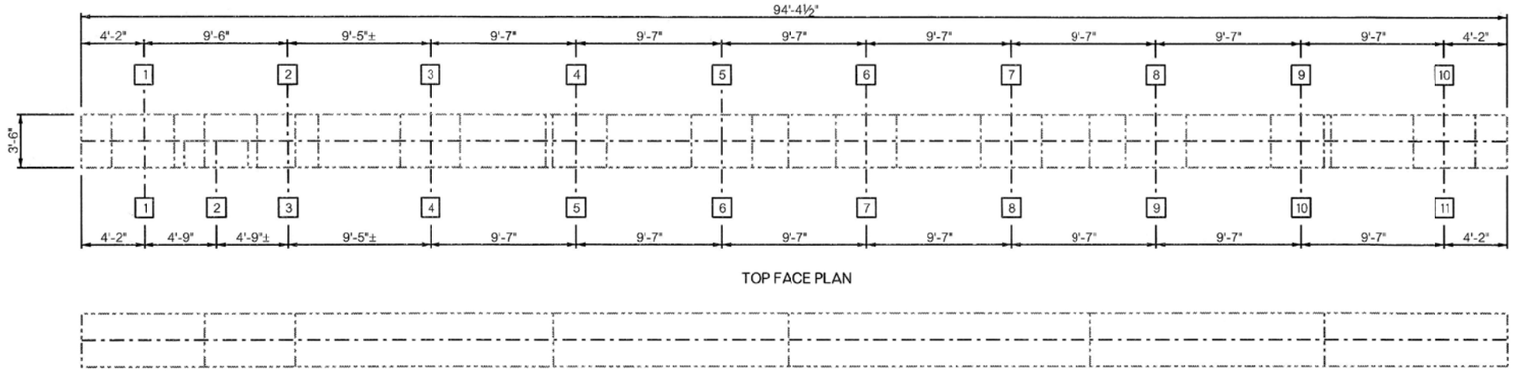
PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
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FILE: DRAWING: DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35 SHEET 75 OF 99 SHEETS

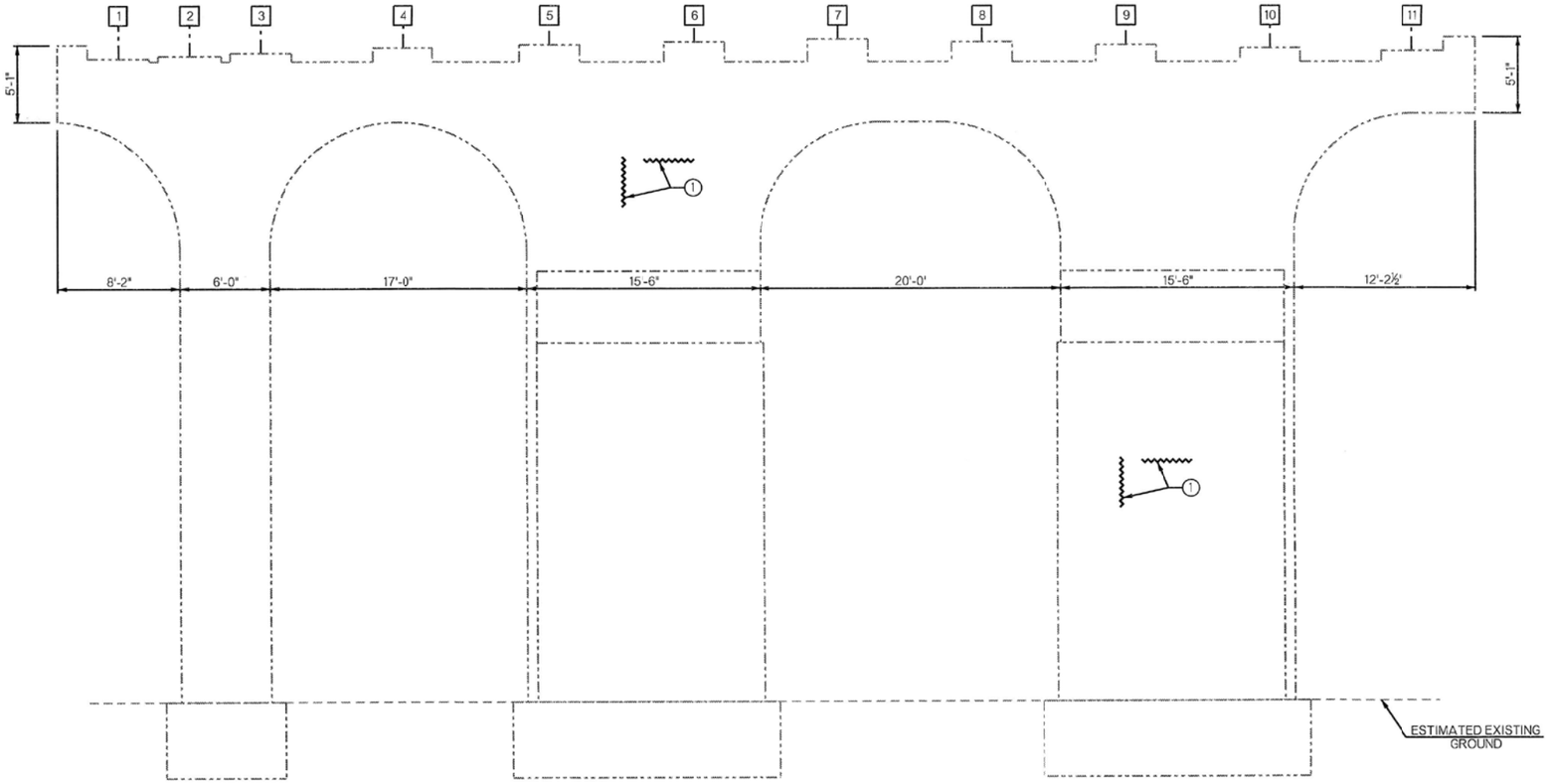
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TOP FACE PLAN

BOTTOM FACE PLAN



NORTH COLUMN MIDDLE COLUMN SOUTH COLUMN

PIER NO. 17 REPAIR DETAILS - WEST FACE

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 33 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

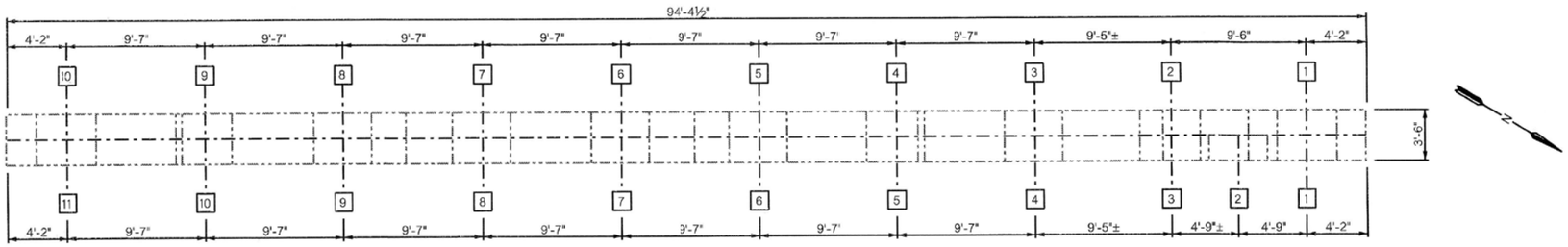
LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

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FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 76 OF 99 SHEETS

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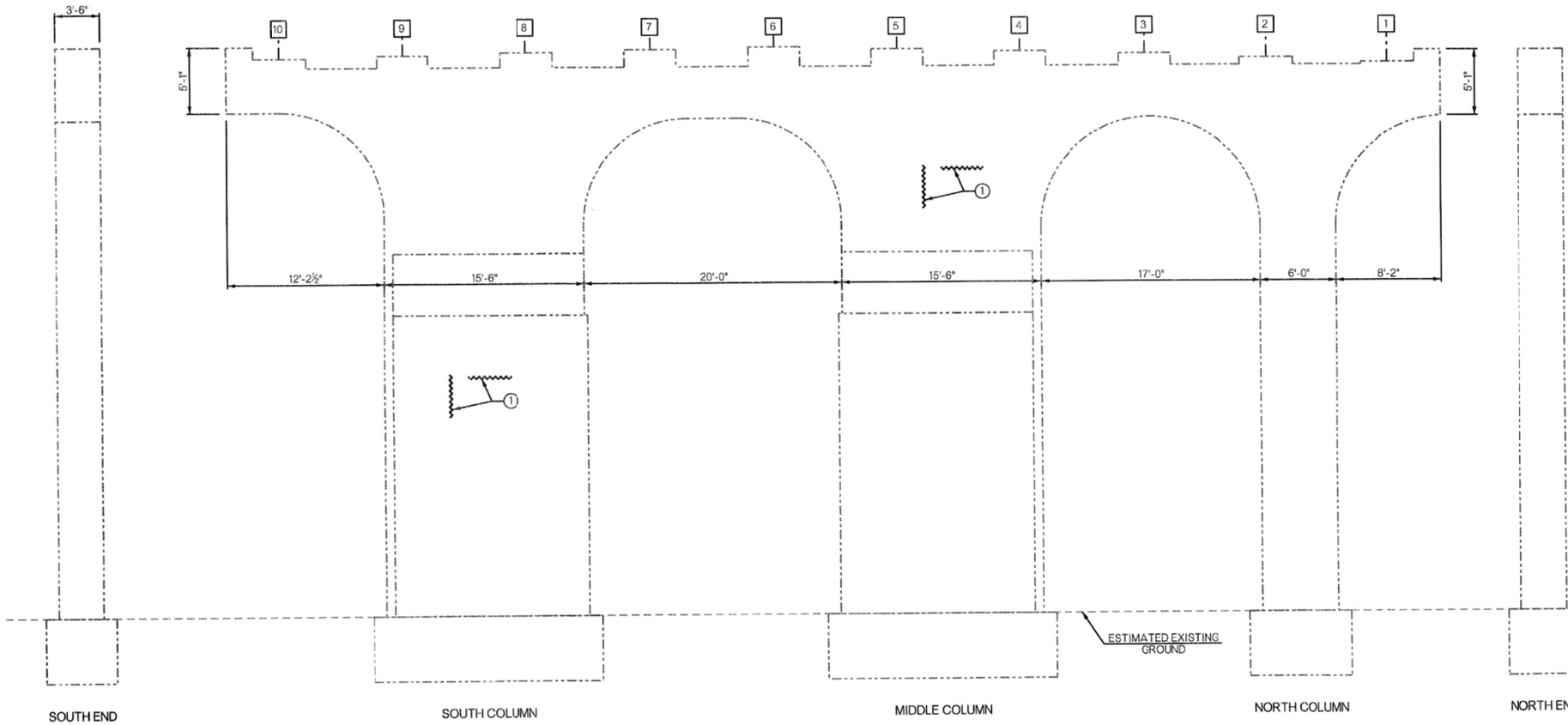
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TOP FACE PLAN



BOTTOM FACE PLAN



① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

PIER NO. 17 REPAIR DETAILS - EAST FACE

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randell Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 34 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	9/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
DESIGN MANAGER

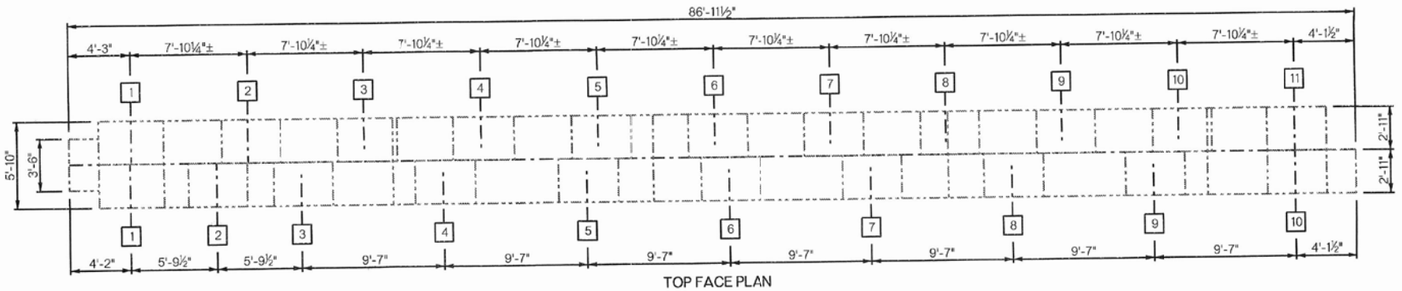
CITY ENGINEER

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FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 77 OF 99 SHEETS

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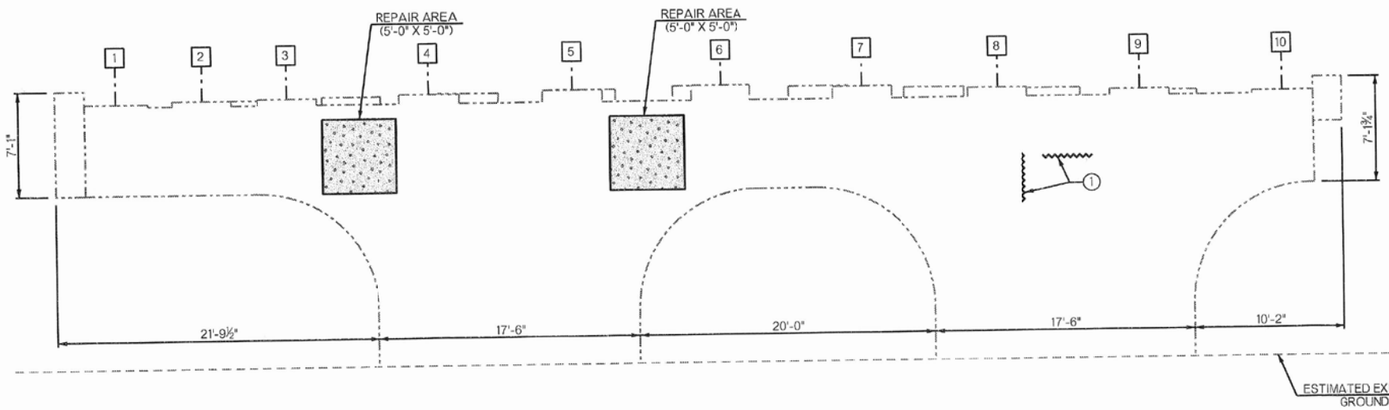
INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.



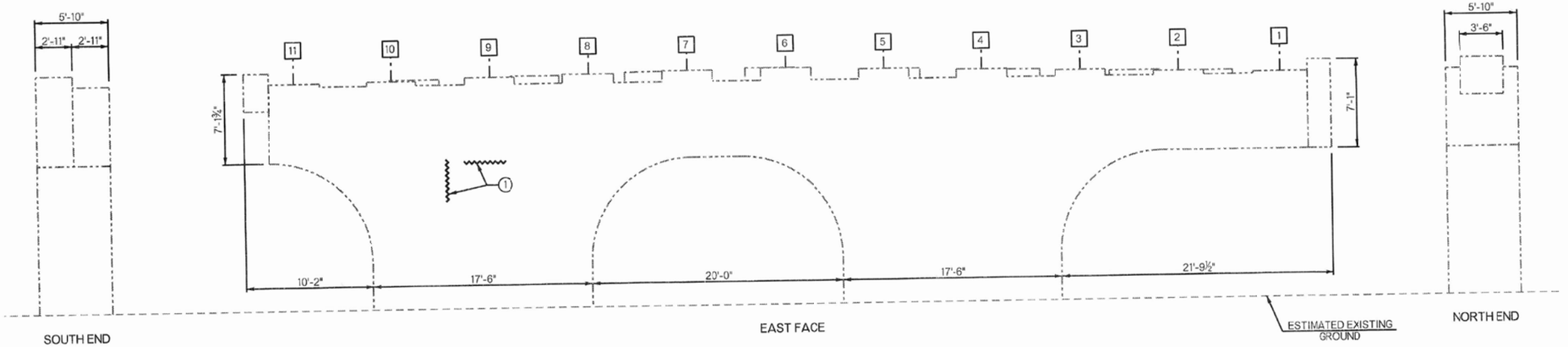
TOP FACE PLAN



BOTTOM FACE PLAN



WEST FACE



SOUTH END

EAST FACE

NORTH END

PIER NO. 18 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA 7/14/26

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 35 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.	DSP	8/26	
RECOMMENDED:			

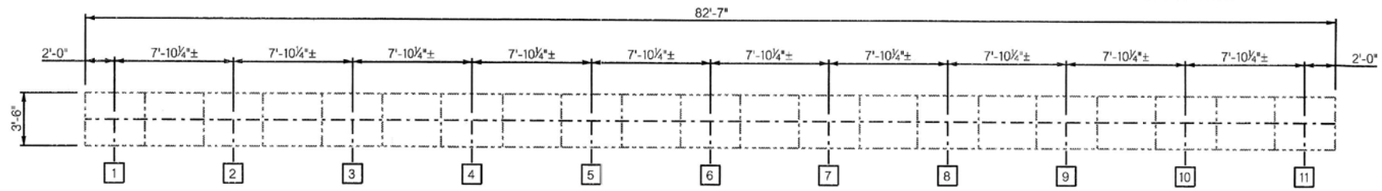
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DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 78 OF 99 SHEETS

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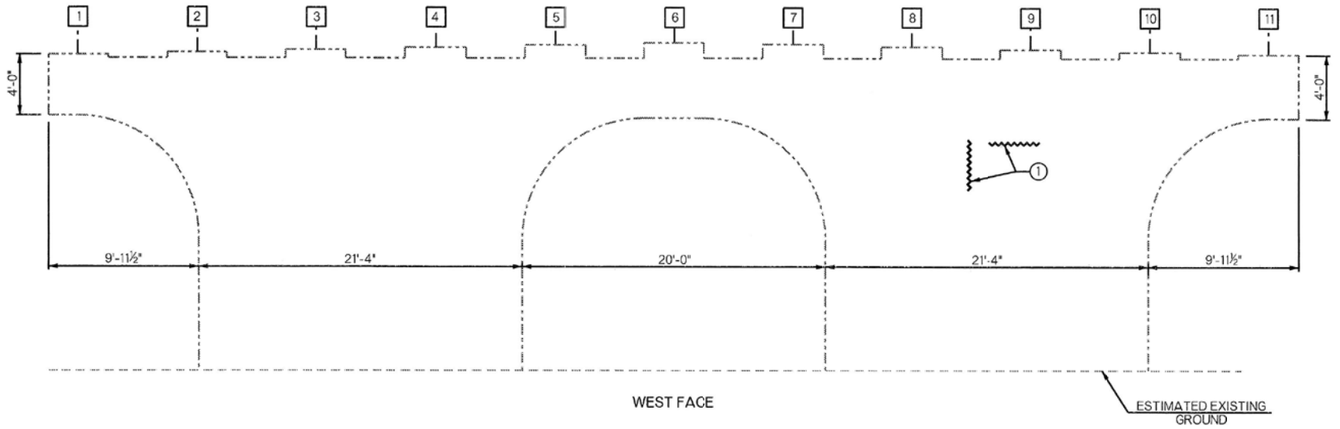
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TOP FACE PLAN

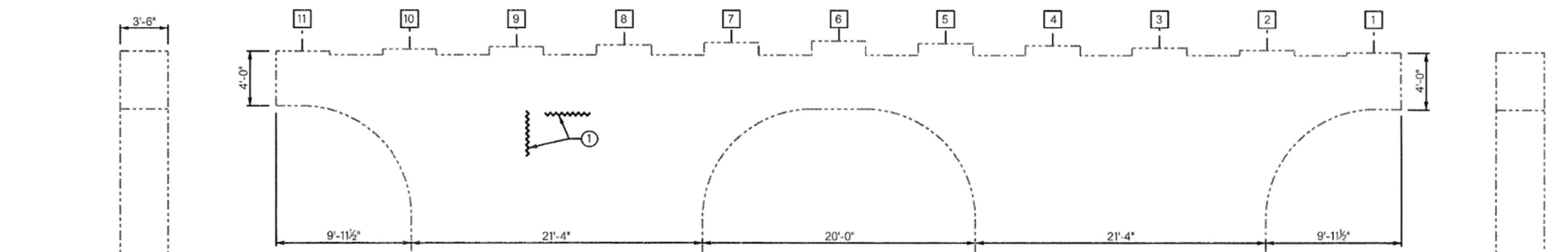


BOTTOM FACE PLAN



WEST FACE

ESTIMATED EXISTING GROUND



SOUTH END

EAST FACE

ESTIMATED EXISTING GROUND

NORTH END

PIER NO. 19 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522 OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 36 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE. SUITE 1300 TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
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VERTICAL:
RECOMMENDED:
HAS 8-26
DESIGN MANAGER
CITY ENGINEER

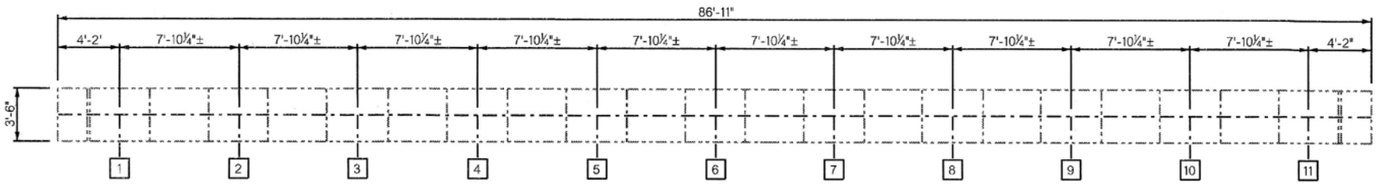
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REVISION	BY	DATE

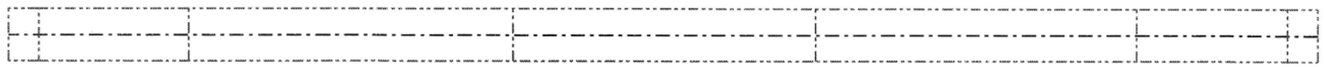
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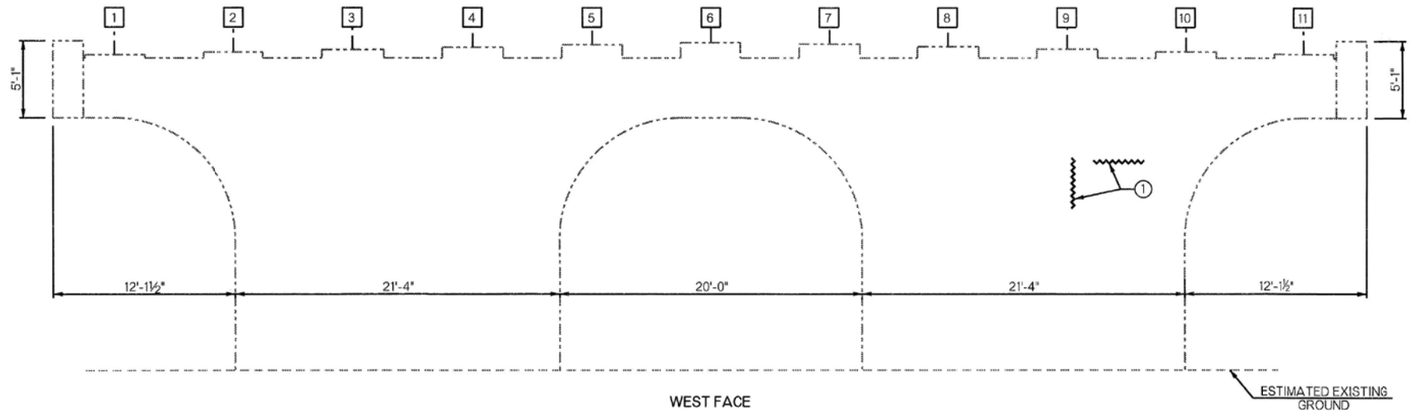
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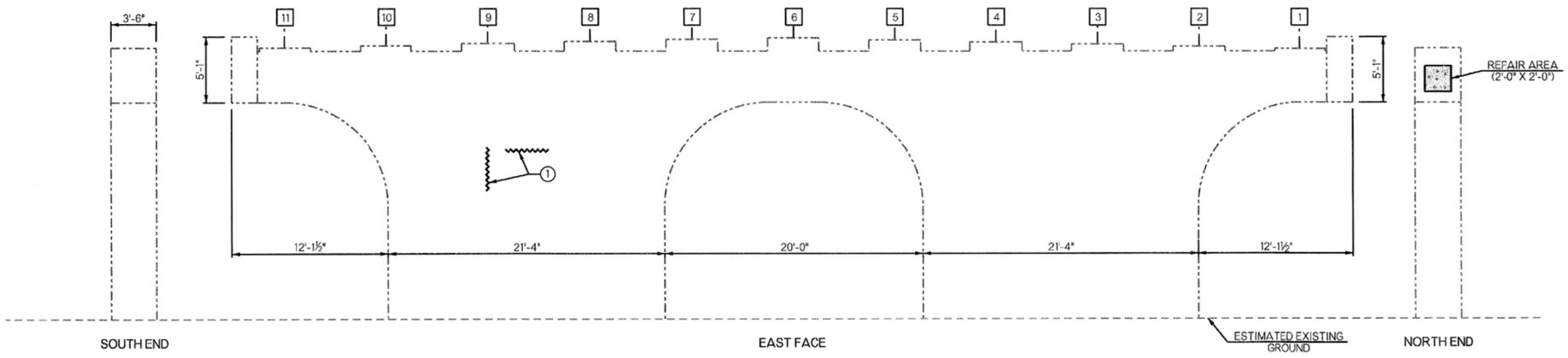
TOP FACE PLAN



BOTTOM FACE PLAN



WEST FACE



SOUTH END EAST FACE NORTH END

PIER NO. 20 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMNS. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 37 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

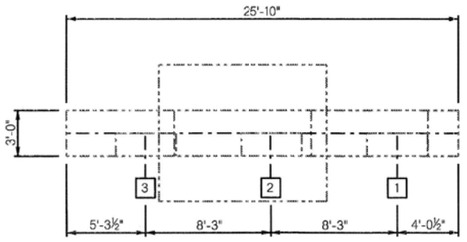
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DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

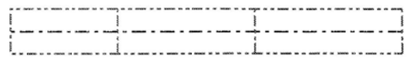
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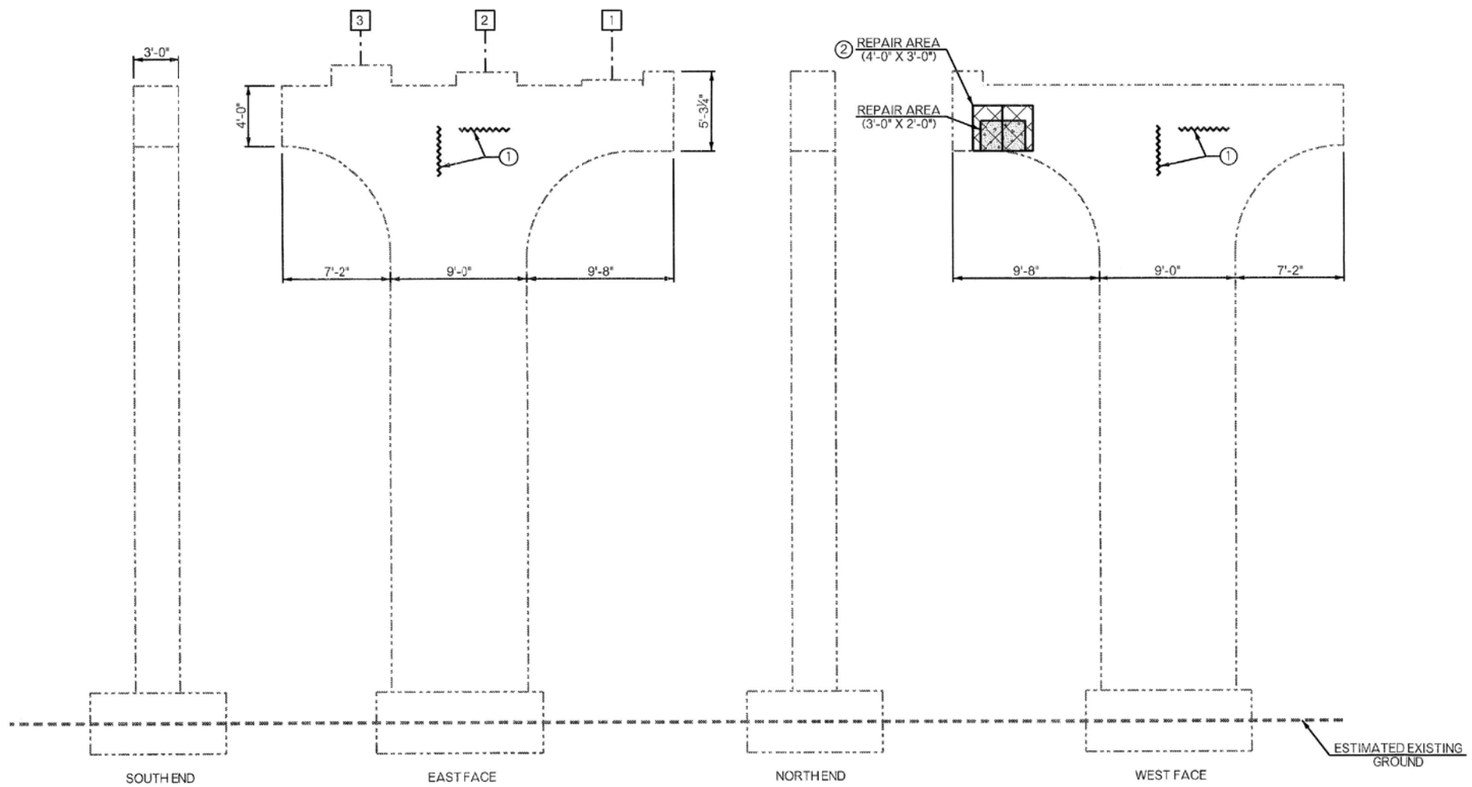
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 21 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

② SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

(SP) CARBON FIBER-REINFORCED PCLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 22868 OKLAHOMA 7/14/26

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 38 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
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VERTICAL:

RECOMMENDED:
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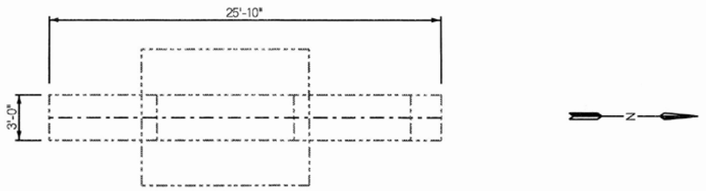
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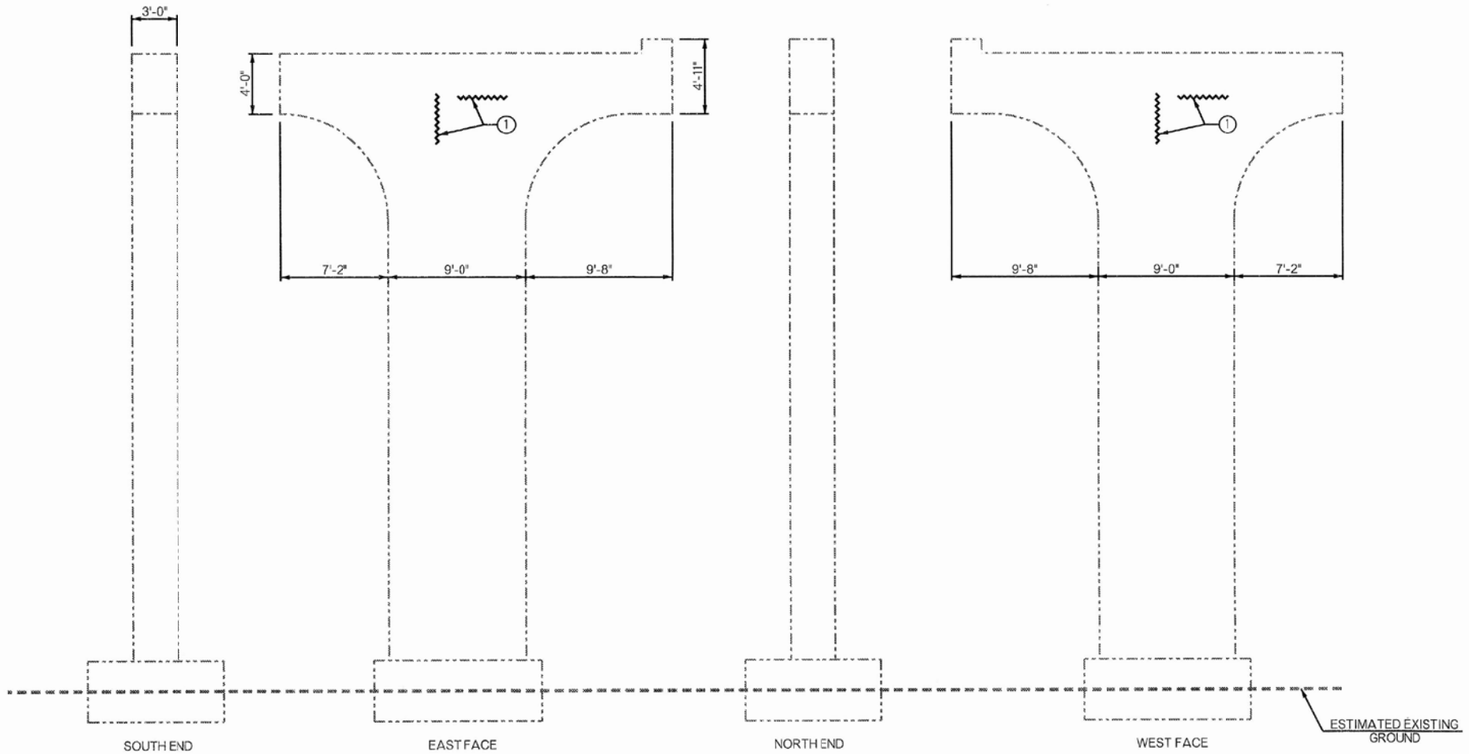
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 22 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 39 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
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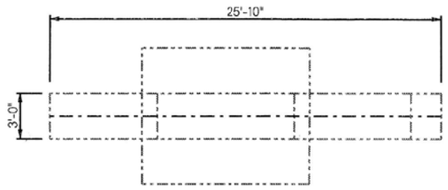
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CITY ENGINEER

ADVERTISE DATE:		
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FILE: DRAWING:
DATE: 10/12/2026
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 82 OF 99 SHEETS

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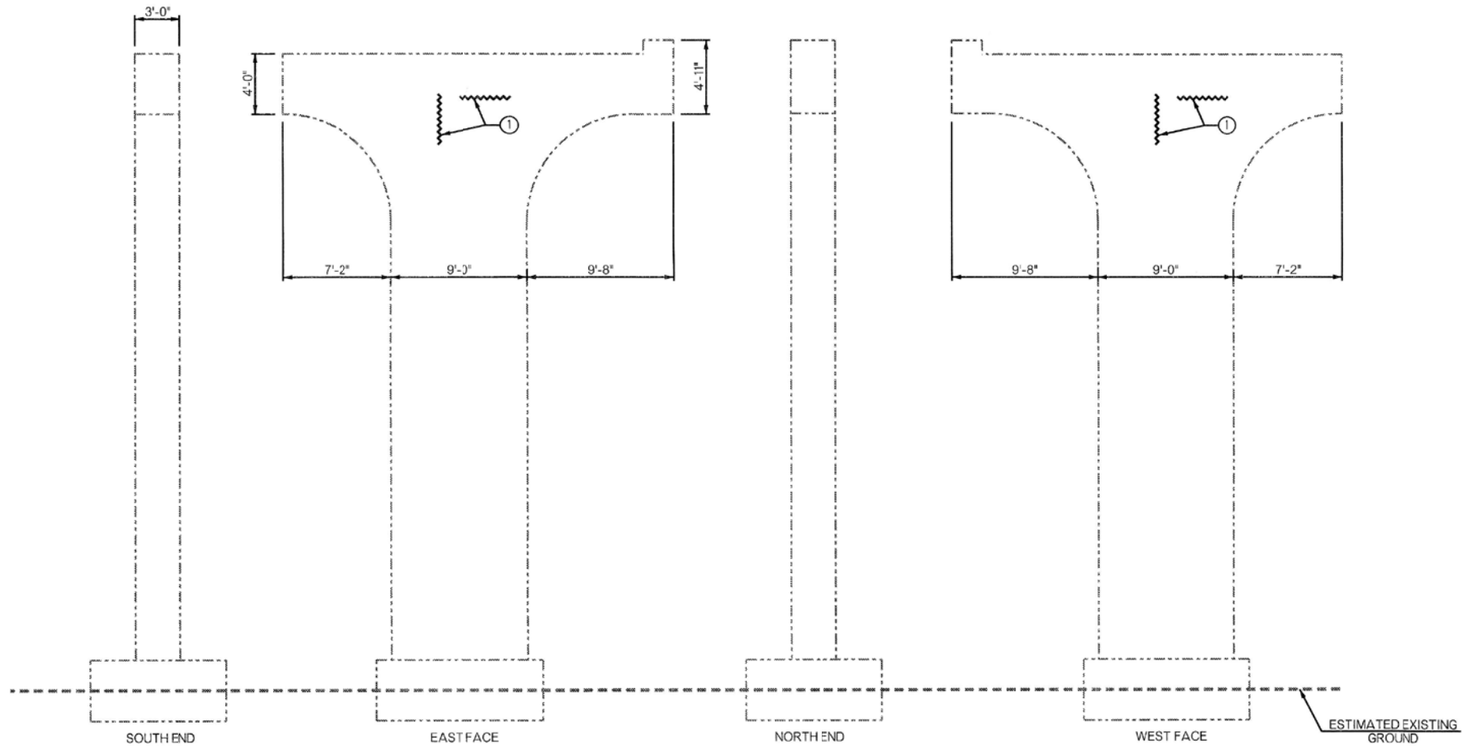
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 23 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 40 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

LICENSED PROFESSIONAL ENGINEER Bradley Randall Thompson 7/14/26 22868 OKLAHOMA

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
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VERTICAL:

RECOMMENDED:

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DESIGN MANAGER

CITY ENGINEER

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REVISION	BY	DATE

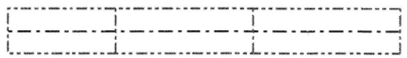
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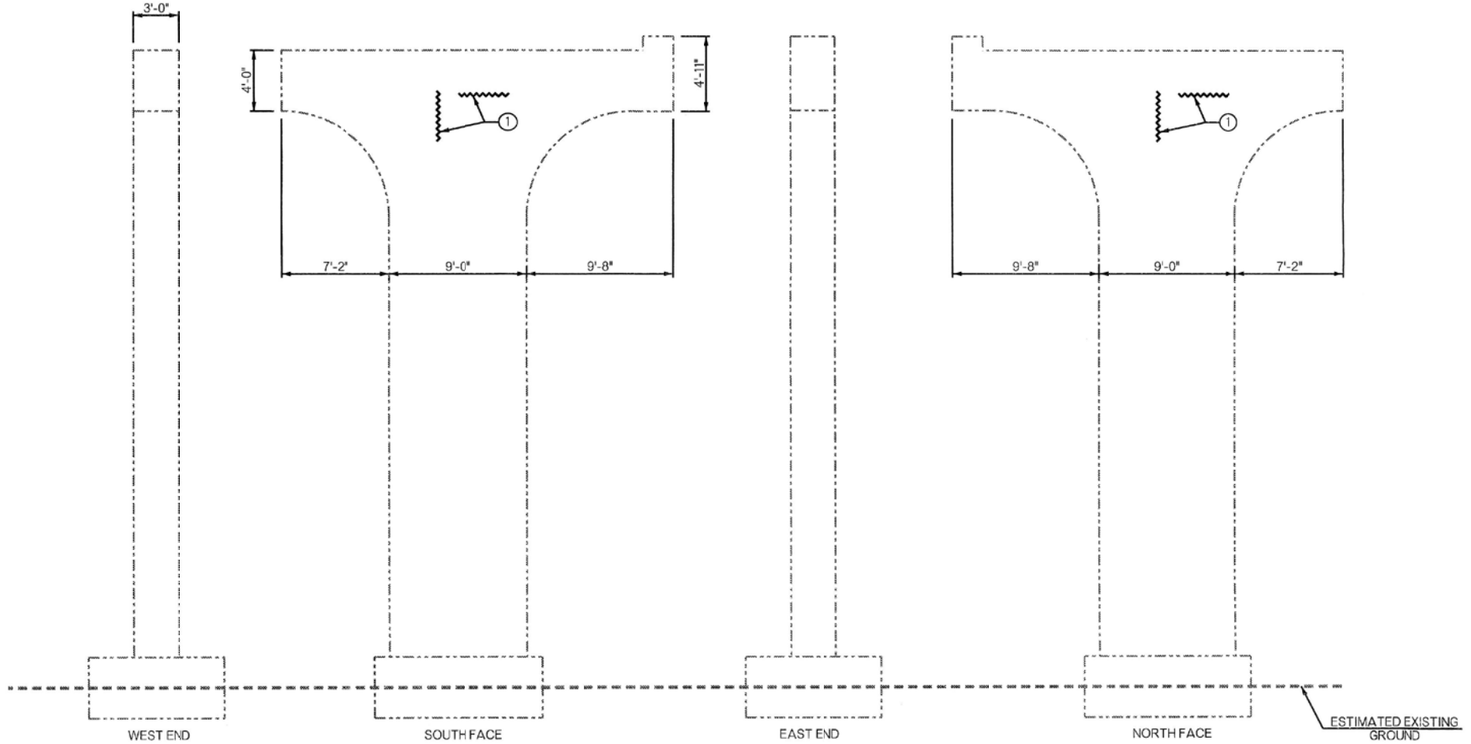
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 24 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 41 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

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PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

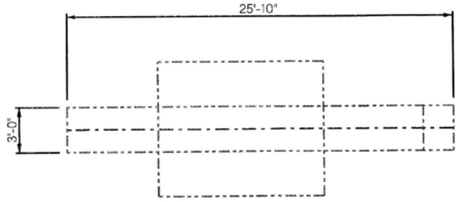
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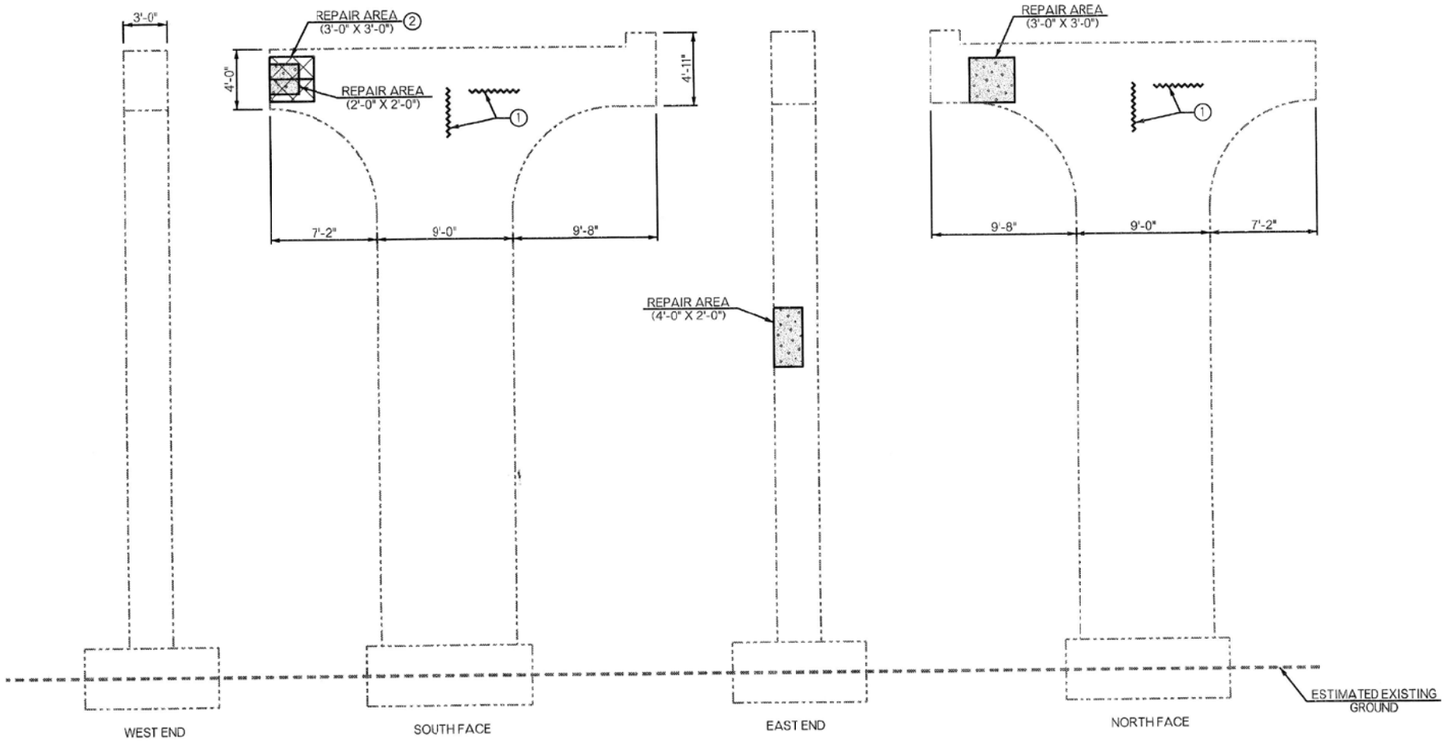
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 25 REPAIR DETAILS

1. TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
2. SEE SHEET NO. 89 FOR CARBON FIBER-REINFORCED POLYMER DETAILS.

LEGEND

- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 42 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/14/26
22868
OKLAHOMA

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

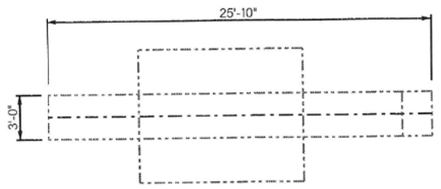
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HAS 8-26
DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
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SHEET 85 OF 99 SHEETS

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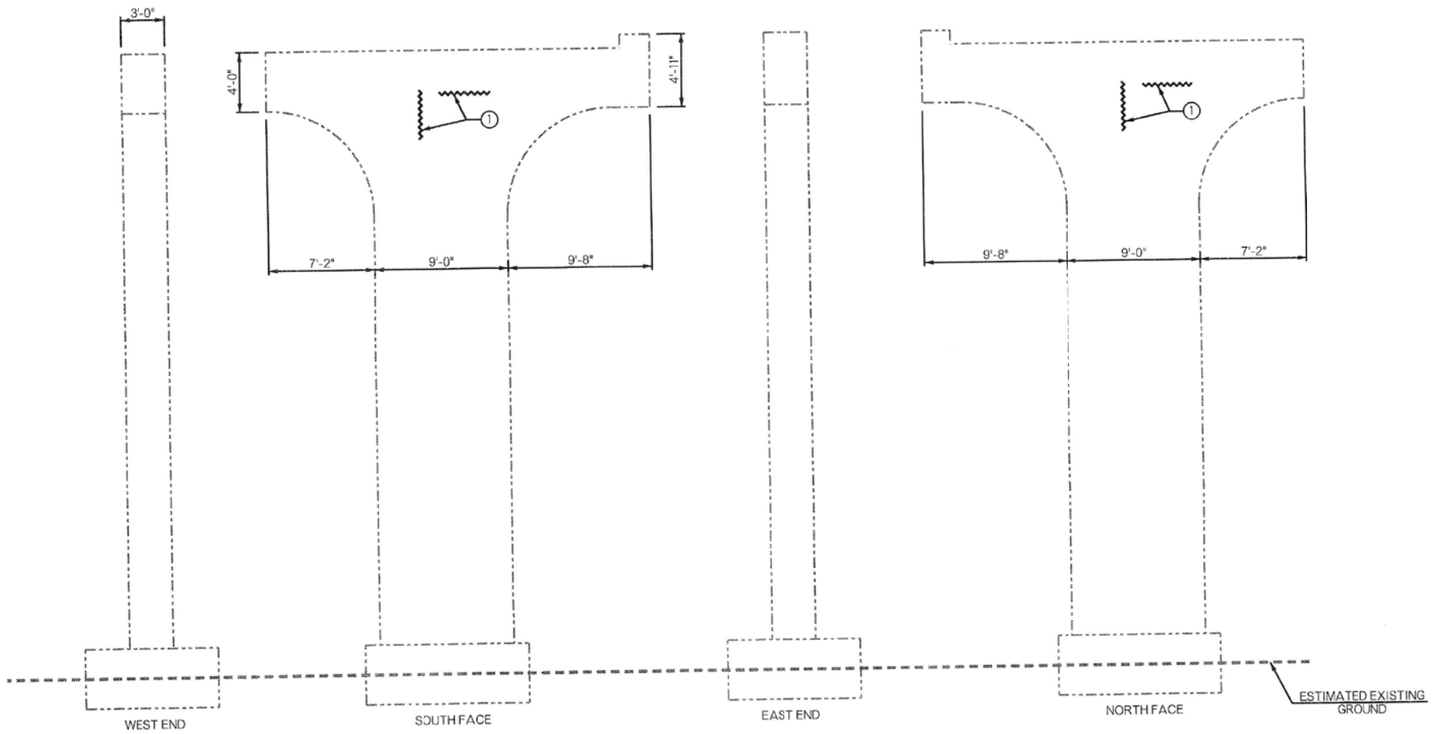
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 26 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 43 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	9/26	
FIELD MGR.			

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CITY ENGINEER

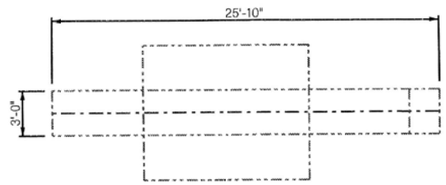
LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

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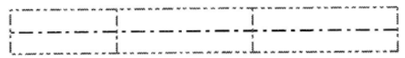
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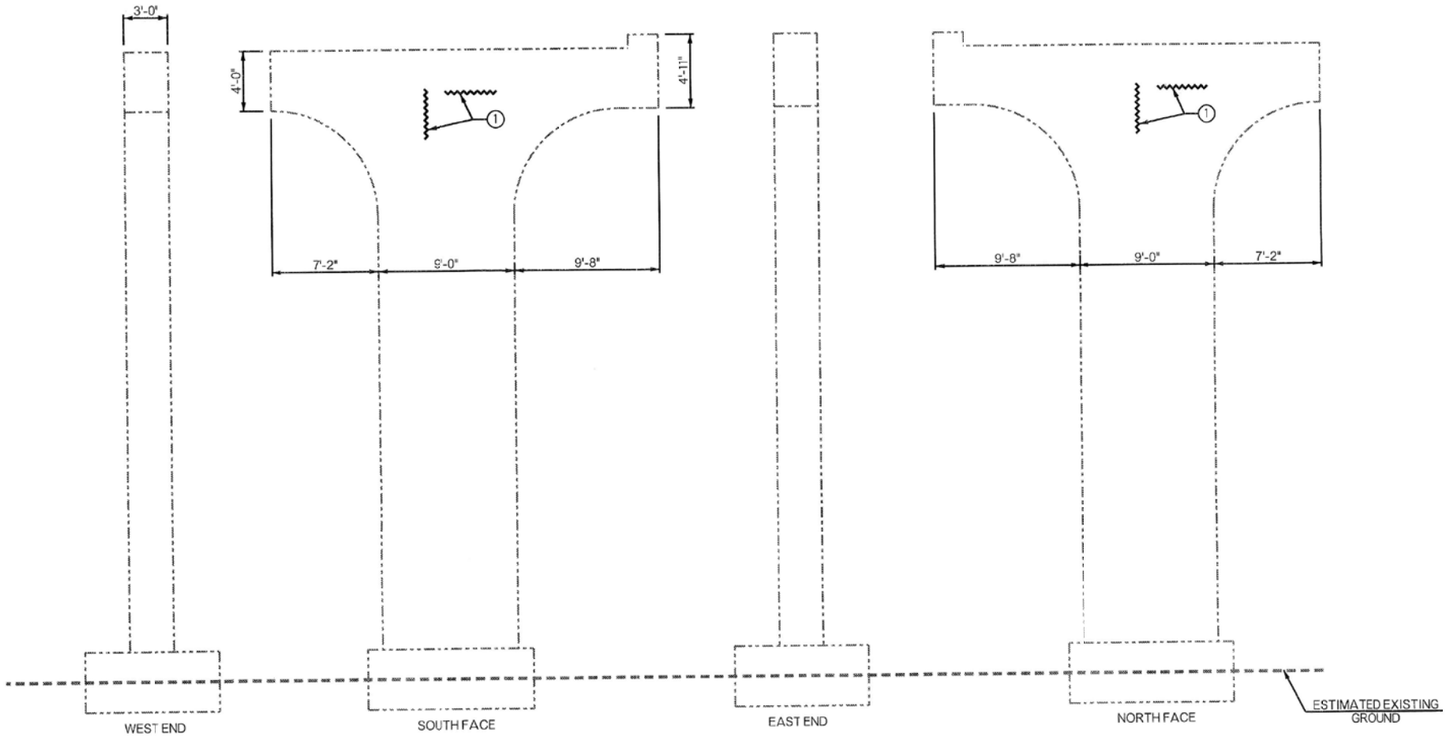
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 27 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 44 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (913) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

GARVER

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
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DESIGN MANAGER
CITY ENGINEER

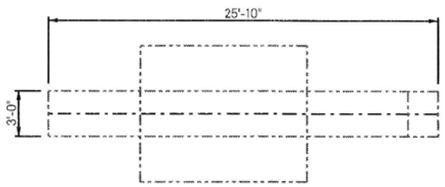
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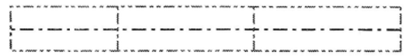
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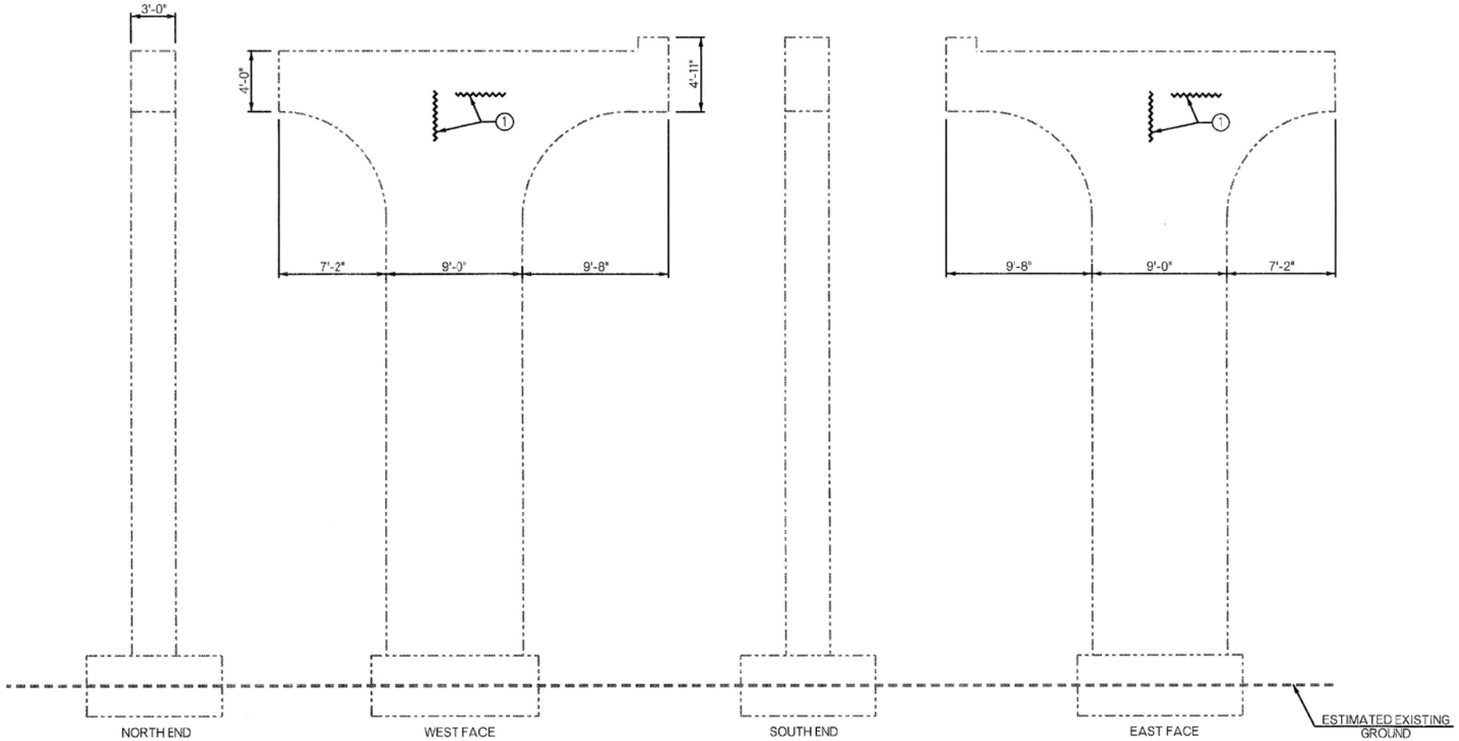
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TOP FACE PLAN



BOTTOM FACE PLAN



PIER NO. 28 REPAIR DETAILS

① TYPICAL EPOXY CRACK REPAIRS THROUGHOUT PIER CAP AND COLUMN. EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.

NOTE:
SEE SHEET NOS. 89 & 90 FOR SUMMARY OF QUANTITIES AND CONCRETE SURFACE APPLICATION.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER
Bradley Randall Thompson
7/14/26
22868
OKLAHOMA

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 45 OF 47)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
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RECOMMENDED:
HAS 8:26
DESIGN MANAGER
CITY ENGINEER

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SUMMARY OF QUANTITIES - PIER REPAIR

ITEM	UNIT	PIER NO. 1	PIER NO. 2	PIER NO. 3	PIER NO. 4	PIER NO. 5	PIER NO. 6	PIER NO. 7	PIER NO. 8	PIER NO. 9	PIER NO. 10	PIER NO. 11	PIER NO. 12	PIER NO. 13	PIER NO. 14	PIER NO. 15	PIER NO. 16	PIER NO. 17	PIER NO. 18	PIER NO. 19	PIER NO. 20	PIER NO. 21	PIER NO. 22	PIER NO. 23	PIER NO. 24	PIER NO. 25
CLASS A CONCRETE	CY	-	-	-	2.00	-	-	-	3.00	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-
WATER REPELLENT (VISUALLY INSPECTED)	SY	154.00	154.00	154.00	154.00	154.00	166.00	154.00	154.00	154.00	154.00	154.00	166.00	154.00	154.00	154.00	154.00	190.00	247.00	213.00	213.00	50.00	50.00	50.00	50.00	50.00
E..ASTOMERIC COATING	SF	411.00	411.00	411.00	411.00	411.00	600.00	411.00	411.00	411.00	411.00	411.00	600.00	411.00	411.00	411.00	411.00	597.00	750.00	511.00	511.00	98.00	45.00	45.00	45.00	45.00
PREPARATION OF CRACKS, ABOVE WATER	LF	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	120.00	100.00	100.00	100.00	50.00	50.00	50.00	50.00	50.00
EPOXY RESIN, ABOVE WATER	GAL	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	2.00	2.00	2.00	2.00	2.00
PNEUMATICALLY PLACED MORTAR	SY	-	-	-	12.00	-	3.00	-	14.00	1.00	-	4.00	6.00	-	2.00	2.00	2.00	-	4.00	-	1.00	1.00	-	-	-	2.00
(SP) CARBON FIBER-REINFORCED POLYMER	SF	-	-	-	193.00	-	36.00	-	566.00	-	-	40.00	51.00	-	-	-	144.00	-	-	-	-	16.00	-	-	-	12.00
CORROSION INHIBITOR(SURFACE APPLIED)	SY	-	-	-	27.00	-	3.00	-	33.00	1.00	-	4.00	6.00	-	2.00	2.00	8.00	-	4.00	-	1.00	1.00	-	-	-	2.00
(PL)REPAIR BRIDGE ITEMS	SY	-	-	-	12.00	-	3.00	-	14.00	1.00	-	4.00	6.00	-	2.00	2.00	2.00	-	4.00	-	1.00	1.00	-	-	-	2.00

SUMMARY OF QUANTITIES - PIER REPAIR (CONTINUED)

ITEM	UNIT	PIER NO. 26	PIER NO. 27	PIER NO. 28	TOTAL
CLASS A CONCRETE	CY	-	-	-	6.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	50.00	54.00	54.00	3,759.00
E..ASTOMERIC COATING	SF	45.00	45.00	45.00	9,736.00
PREPARATION OF CRACKS, ABOVE WATER	LF	50.00	50.00	50.00	2,420.00
EPOXY RESIN, ABOVE WATER	GAL	2.00	2.00	2.00	96.00
PNEUMATICALLY PLACED MORTAR	SY	-	-	-	54.00
(SP) CARBON FIBER-REINFORCED POLYMER	SF	-	-	-	1,058.00
CORROSION INHIBITOR(SURFACE APPLIED)	SY	-	-	-	94.00
(PL)REPAIR BRIDGE ITEMS	SY	-	-	-	54.00

SUMMARY OF QUANTITIES - ABUTMENT REPAIR

ITEM	UNIT	ABUTMENT NO. 1	ABUTMENT NO. 2	ABUTMENT NO. 3	TOTAL
WATER REPELLENT (VISUALLY INSPECTED)	SY	231.00	53.00	7.00	291.00
ELASTOMERIC COATING	SF	296.00	446.00	12.00	754.00
PREPARATION OF CRACKS, ABOVE WATER	LF	40.00	40.00	10.00	90.00
EPOXY RESIN, ABOVE WATER	GAL	2.00	2.00	1.00	5.00
PNEUMATICALLY PLACED MORTAR	SY	-	1.00	-	1.00
CORROSION INHIBITOR(SURFACE APPLIED)	SY	-	1.00	-	1.00
(PL)REPAIR BRIDGE ITEMS	SY	-	1.00	-	1.00
(PL)INSTALLATION OF BRIDGE ITEMS	EA	28.00	30.00	-	58.00

NOTES:

INSTALLATION OF THE CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED PER THE MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.

BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER AND CORROSION INHIBITOR, THE CONTRACTOR SHALL REMOVE ALL UNSOUND CONCRETE FROM THE PIER CAPS AND COLUMNS. AFTER REMOVAL OF UNSOUND CONCRETE, EXPOSED REINFORCING STEEL SHALL BE CLEANED AND CORROSION SHALL BE REMOVED.

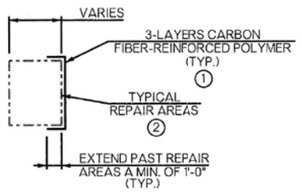
ALL COSTS OF THE CARBON FIBER-REINFORCED POLYMER INCLUDING ALL THREE (3) LAYERS OF MATERIAL, EPOXY, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "(SP) CARBON FIBER-REINFORCED POLYMER".

(1) CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED TO THE AREAS SHOWN IN THREE (3) LAYERS. THE FIRST AND THIRD LAYERS SHALL BE APPLIED IN A HORIZONTAL PATTERN. THE SECOND LAYER SHALL BE APPLIED IN A VERTICAL PATTERN.

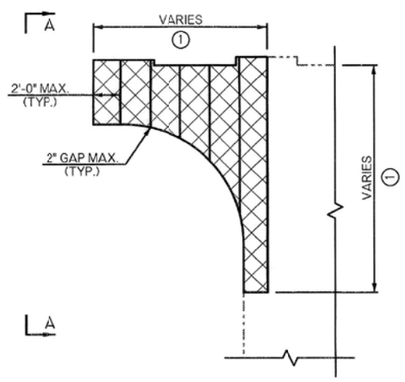
(2) BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER AND CORROSION INHIBITOR, THE CONTRACTOR SHALL PERFORM CONCRETE REPAIRS IN ACCORDANCE TO SECTION 520, 521, OR 701 OF THE STANDARD SPECIFICATIONS.

LEGEND

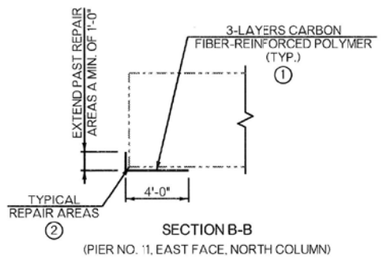
(SP) CARBON FIBER-REINFORCED POLYMER



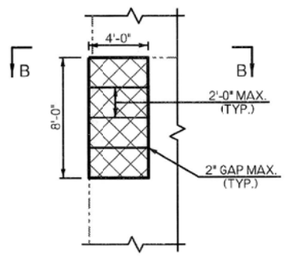
SECTION A-A
(TYPICAL REPAIR AREA SHOWN)



ELEVATION
(TYPICAL REPAIR AREA SHOWN)



SECTION B-B
(PIER NO. 11, EAST FACE, NORTH COLUMN)



ELEVATION
(PIER NO. 11, EAST FACE, NORTH COLUMN)

PIER REPAIRS USING CARBON FIBER-REINFORCED POLYMER

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

Bradley Randall Thompson 22868 LICENSED PROFESSIONAL ENGINEER OKLAHOMA 7/14/26

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 46 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.		8/26	
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

HAS 8.26
DESIGN MANAGER

CITY ENGINEER

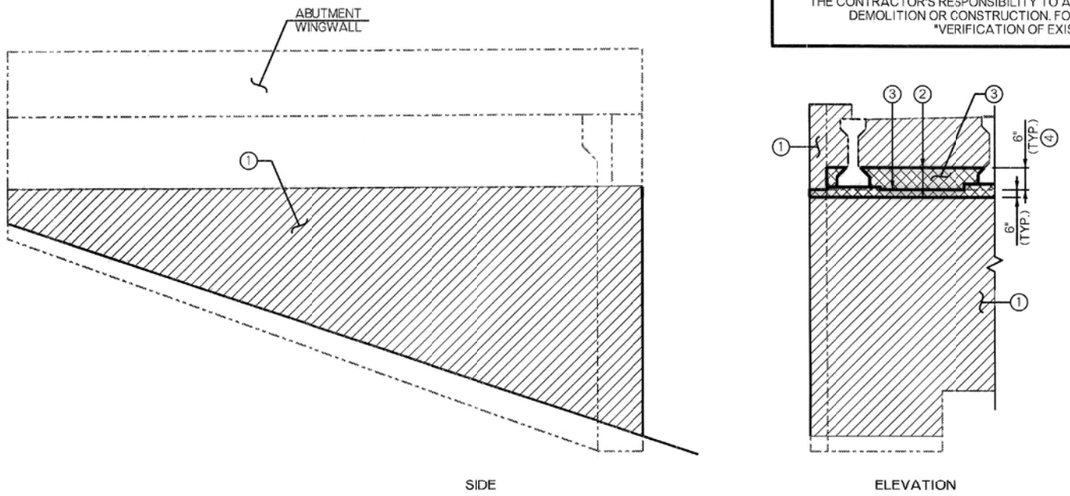
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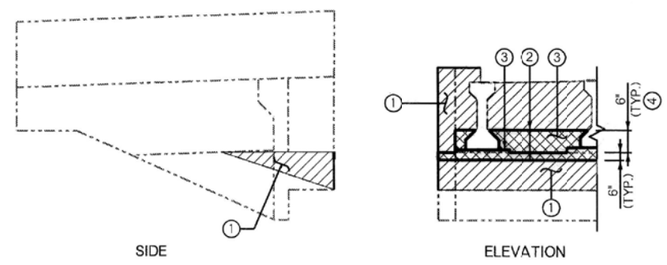
ATLAS PAGE NO. 5, 16, 34, 35 SHEET 89 OF 99 SHEETS

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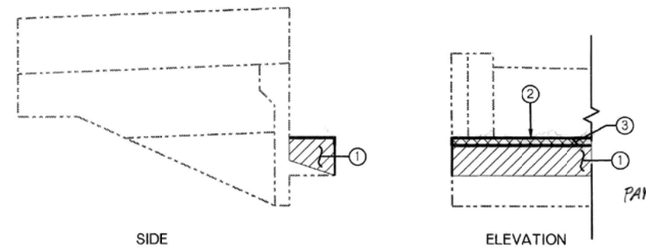
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ABUTMENT NO. 1



ABUTMENT NO. 2



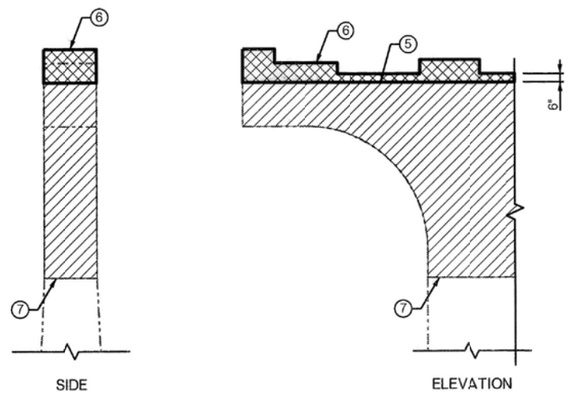
ABUTMENT NO. 3

- Specify sequence w/respect to installation of anti-loitering devices.
- Drill for #5 bar
- Attach before/after applying elastomeric?

EAS 7/26

NOTE:
THE ELASTOMERIC COATINGS SHALL BE APPLIED TO THE ABUTMENTS AFTER THE INSTALLATION OF THE ANTI-LOITERING BLOCKS.

ABUTMENT CONCRETE TREATMENT DETAILS
(ABUTMENT NOS. 1, 2, & 3)



CONCRETE TREATMENT DETAILS AT PIER

(1) WATER REPELLENT ON THE ABUTMENT AND WINGWALL FACES TO BE PAID FOR IN ABUTMENT QUANTITIES.

(2) MASK FACE OF ABUTMENT CAP ALONG THIS LINE TO PROVIDE A CLEAN STRAIGHT FINISH AT TOP AND BOTTOM OF ELASTOMERIC COATING APPLICATION. SEE ~~GENERAL NOTE~~ ON SHEET NO. 2 FOR ELASTOMERIC COATING SPECIFICATIONS.

PAY ITEM NOTE (B7)

(3) APPLY CIM-1000 (ELASTOMERIC COATING) TO THE SURFACES INDICATED BY CROSSHATCH AND HEAVY LINES, INCLUDING THE TOP & FRONT FACES OF THE ABUTMENT CAP, PEDESTALS & BACKWALL. INCLUDED IN ABUTMENT QUANTITIES.

(4) ELASTOMERIC COATING PLACED ON ABUTMENT BACKWALLS SHALL BE 6" HIGH OR 4" HIGHER THAN THE TALLEST PEDESTAL AND BE PARALLEL TO THE TOP OF THE ABUTMENT.

(5) MASK FACES OF PIER CAP ALONG THIS LINE TO PROVIDE A CLEAN STRAIGHT FINISH OF ELASTOMERIC COATING APPLICATION.

(6) APPLY CIM-1000 (ELASTOMERIC COATING) TO THE SURFACES INDICATED BY CROSSHATCH AND HEAVY LINES, INCLUDING THE PEDESTALS & THE TOP, SIDES, FRONT AND BACK, FACES OF THE PIER CAP. INCLUDED IN PIER QUANTITIES.

(7) FOR PIER NOS. 1-17, THE WATER REPELLENT SHALL BE APPLIED TO THE ENTIRE EXTERIOR FACE OF THE PIER CAP DOWN TO THE LOCATION WHERE THE ARCH CONNECTS TO THE COLUMN. FOR PIER NOS. 18-20, THE WATER REPELLENT SHALL BE APPLIED DOWN THE PIER CAP TO THE EXISTING GROUND. FOR PIER NOS. 21-28, THE WATER REPELLENT SHALL BE APPLIED DOWN THE PIER CAP TO THE LOCATION WHERE THE PIER CAP HAS FULLY TRANSITIONED INTO THE COLUMN.

LEGEND

ELASTOMERIC COATING (CROSSHATCHING AND HEAVY LINE)

WATER REPELLENT (HATCHING)

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - SUBSTRUCTURE REPAIRS
(SHEET 47 OF 47)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 856-0107

DRAWN	DSP	10/24	APPROVED:
DESIGNED	JMH	2/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			
RECOMMENDED:			

PLAN SCALE
PROFILE SCALE
HORIZONTAL:
VERTICAL:

HAS 8.26
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER
Bradley Randel Thompson
7/14/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING: DATE: 10/12/2026

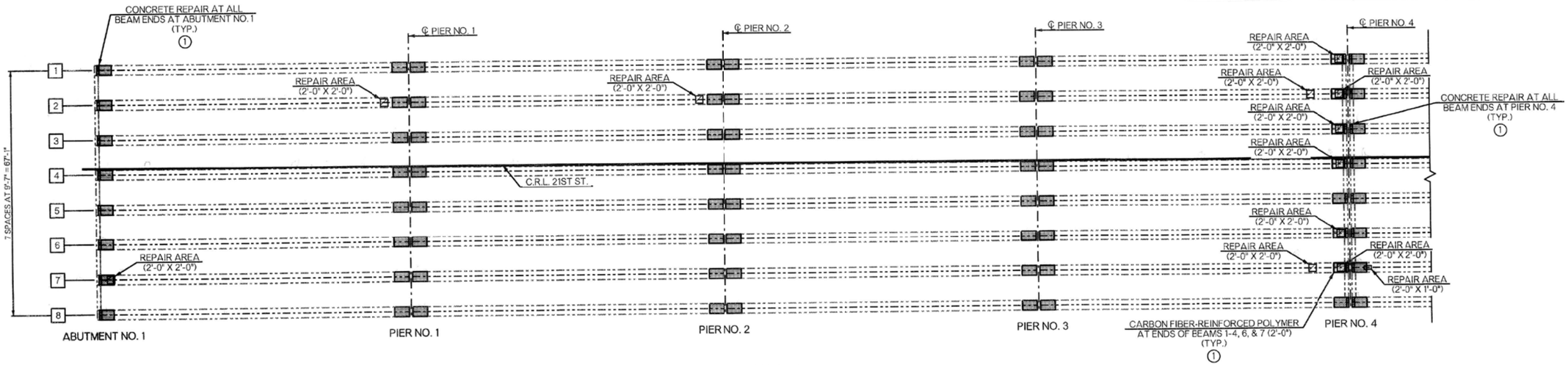
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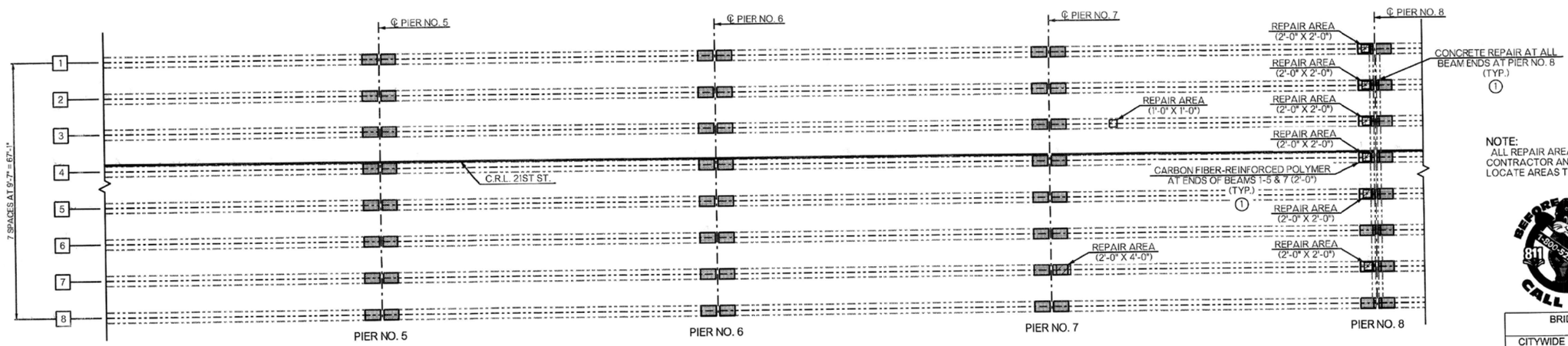
INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXISTING CONDITIONS" ON SHEET NO. 2.

NOTES:
SOFFIT REPAIRS ARE ANTICIPATED, BUT SPECIFIC LOCATIONS AND DETAILS ARE CURRENTLY UNKNOWN. A TOKEN QUANTITY HAS BEEN INCLUDED TO COVER THIS ESTIMATED WORK. PAYMENT FOR THESE REPAIRS ARE TO BE PAID FOR IN THE COST OF (PL)REPAIR BRIDGE ITEMS (TYPE A).

IN ADDITION TO THE SPECIFIC REPAIR LOCATIONS IDENTIFIED, A TOKEN QUANTITY AMOUNT HAS BEEN INCLUDED TO ACCOUNT FOR ANY UNFORSEEN REPAIR AREAS TO THE END DIAPHRAGMS, BEAM LINKS, & BEAM ENDS. REPAIRS TO BE PAID FOR IN THE COST OF PNEUMATICALLY PLACED MORTAR AND (PL)REPAIR BRIDGE ITEMS.



BEAM REPAIR PLAN - SPAN NOS. 1 - 4



BEAM REPAIR PLAN - SPAN NOS. 5 - 8

NOTE:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LEGEND

- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER
- ELASTOMERIC COATING

① SEE SHEET NO. 93 FOR BEAM CONCRETE REPAIR, ELASTOMERIC COATING, & CARBON FIBER-REINFORCED POLYMER DETAILS.

BRIDGE 258 - SUPERSTRUCTURE REPAIRS (SHEET 1 OF 4)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (913) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

RECOMMENDED:
HAS 8-26
DESIGN MANAGER

CITY ENGINEER

LICENSED PROFESSIONAL ENGINEER Bradley Randell Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

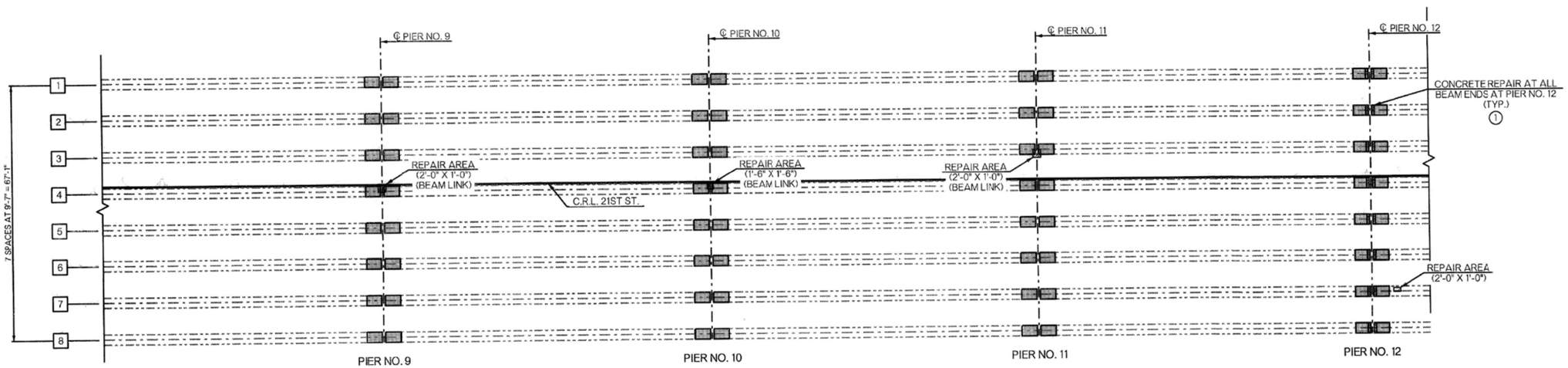
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SHEET 91 OF 99 SHEETS

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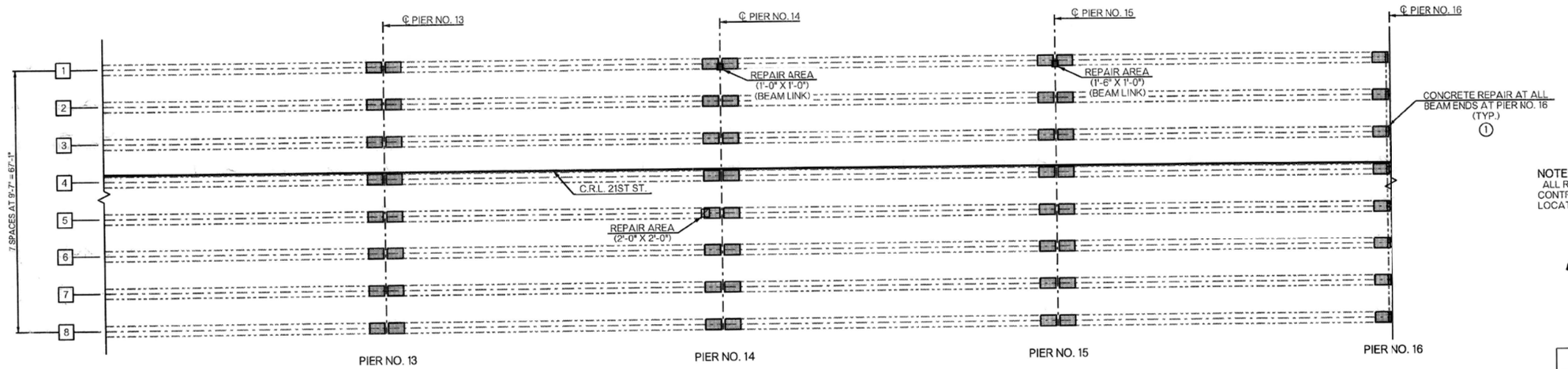
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NOTES:
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IN ADDITION TO THE SPECIFIC REPAIR LOCATIONS IDENTIFIED, A TOKEN QUANTITY AMOUNT HAS BEEN INCLUDED TO ACCOUNT FOR ANY UNFORSEEN REPAIR AREAS TO THE END DIAPHRAGMS, BEAM LINKS, & BEAM ENDS. REPAIRS TO BE PAID FOR IN THE COST OF PNEUMATICALLY PLACED MORTAR AND (PL)REPAIR BRIDGE ITEMS.



BEAM REPAIR PLAN - SPAN NOS. 9 - 12



BEAM REPAIR PLAN - SPAN NOS. 13 - 16

NOTE:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LEGEND

- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- ELASTOMERIC COATING

① SEE SHEET NO. 93 FOR BEAM CONCRETE REPAIR, ELASTOMERIC COATING, & CARBON FIBER-REINFORCED POLYMER DETAILS.

BRIDGE 258 - SUPERSTRUCTURE REPAIRS
(SHEET 2 OF 4)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300
TULSA, OKLAHOMA 74136
Phone: (918) 250-5922
Fax: (918) 858-0107

DRAWN	DSP	10/24
DESIGNED	JMH	2/25
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	9/26
FIELD MGR.		

APPROVED:

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER
DATE: 10/12/2026

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

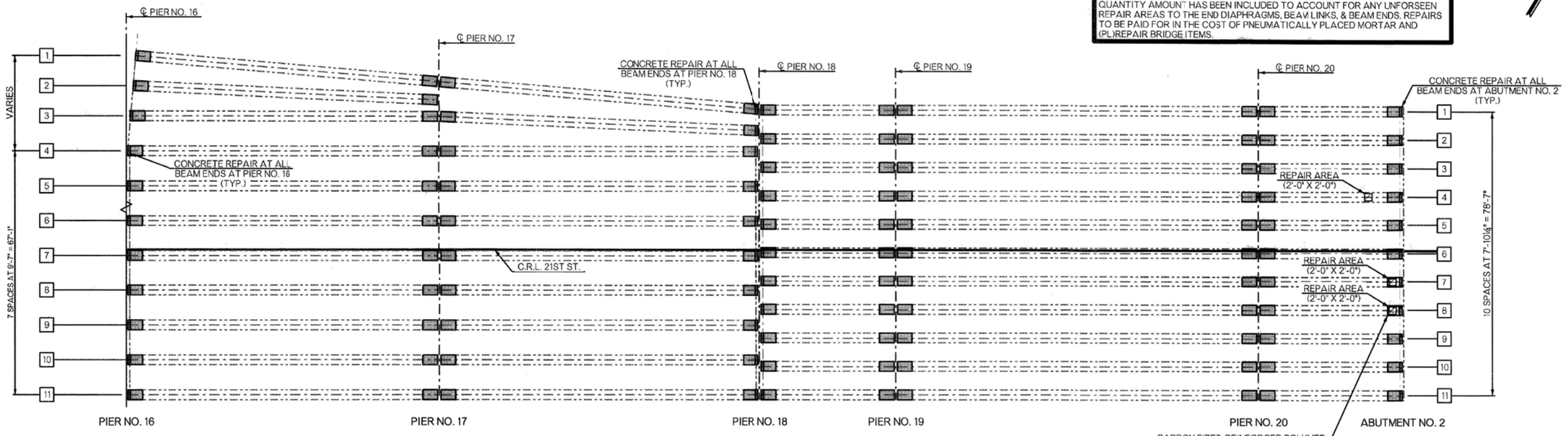
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SHEET 92 OF 99 SHEETS

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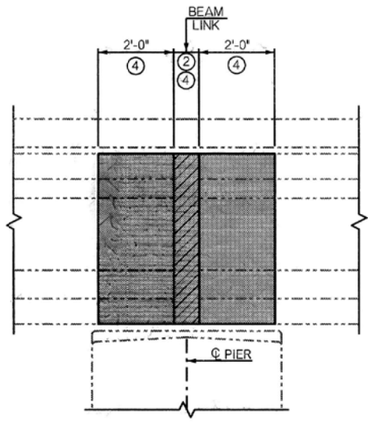
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NOTES:
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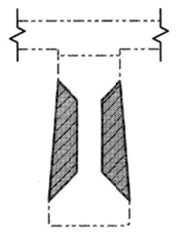
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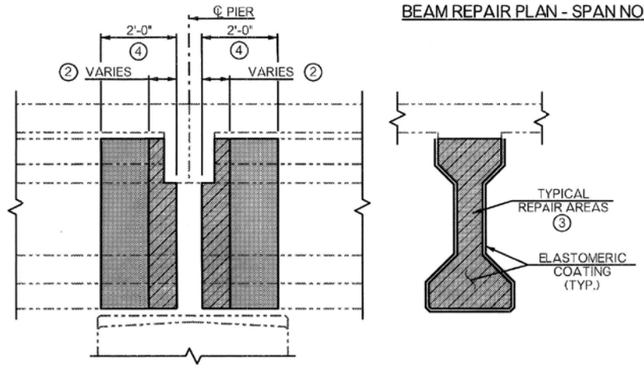
BEAM REPAIR PLAN - SPAN NOS. 17 - 21



BEAM LINKS & BEAM REPAIR DETAILS - ELEVATION
(TYPICAL BEAM & BEAM LINK SHOWN)
(APPLICABLE AT ALL BEAM ENDS)

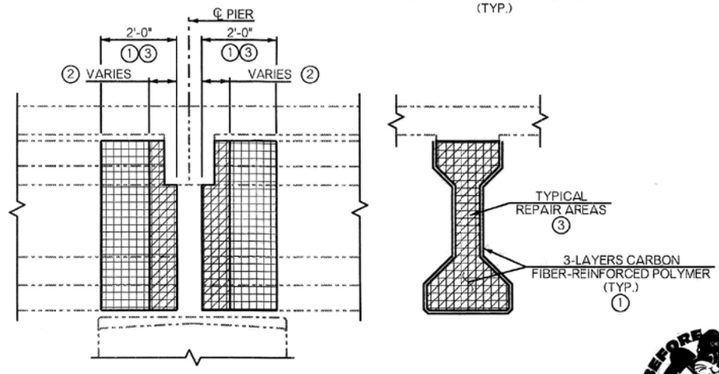


SECTION THROUGH BEAM LINK
(TYPICAL BEAM LINK SHOWN)
(APPLICABLE AT ALL BEAM LINKS)



ELEVATION END VIEW

DETAIL OF CONCRETE REPAIR AND ELASTOMERIC COATING AT BEAM ENDS



ELEVATION END VIEW

DETAIL OF CONCRETE REPAIR AND CARBON-FIBER REINFORCED POLYMER & CORROSION INHIBITOR AT BEAM ENDS

P.C. BEAM REPAIR DETAILS

BEAM LINKS & BEAM REPAIR DETAILS
(CONCRETE REPAIR, CRACK REPAIR, CORROSION INHIBITOR, & ELASTOMERIC COATING)
(APPLICABLE AT PIER NOS. 1 - 3, 5 - 7, 9 - 11, 13 - 15, 17, & 19 - 20)

LEGEND
- EXISTING STRUCTURE
- PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH
- (SP) CARBON FIBER-REINFORCED POLYMER
- ELASTOMERIC COATING

1. CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED TO BOTH SIDES AND THE FACE OF THE BEAM ENDS (WHERE APPLICABLE) IN THREE (3) LAYERS. THE FIRST AND THIRD LAYERS SHALL BE APPLIED IN A HORIZONTAL PATTERN. THE SECOND LAYER SHALL BE APPLIED IN A VERTICAL PATTERN.
2. PERFORM CONCRETE REPAIRS AND APPLY CORROSION INHIBITOR TO ALL BEAM ENDS & BEAM LINKS WHERE APPLICABLE.
3. BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER (WHERE APPLICABLE) AND CORROSION INHIBITOR, THE CONTRACTOR SHALL PERFORM CONCRETE REPAIRS IN ACCORDANCE TO SECTION 520, 521, OR 701 OF THE STANDARD SPECIFICATIONS.
4. AFTER CONCRETE SURFACES HAVE BEEN REPAIRED, APPLY ELASTOMERIC COATING TO BEAM ENDS & BEAM LINKS AS SHOWN.

NOTES:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

INSTALLATION OF THE CARBON FIBER-REINFORCED POLYMER SHALL BE APPLIED PER THE MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER.

BEFORE APPLYING THE CARBON FIBER-REINFORCED POLYMER (WHERE APPLICABLE) AND CORROSION INHIBITOR, THE CONTRACTOR SHALL REMOVE ALL UNSOUND CONCRETE FROM THE BEAM ENDS AND BEAM LINKS. AFTER REMOVAL OF UNSOUND CONCRETE, EXPOSED REINFORCING STEEL SHALL BE CLEANED AND CORROSION SHALL BE REMOVED.

ALL COSTS OF THE CARBON FIBER-REINFORCED POLYMER INCLUDING ALL THREE (3) LAYERS OF MATERIAL, EPOXY, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "(SP) CARBON FIBER-REINFORCED POLYMER".

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/11/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUPERSTRUCTURE REPAIRS
(SHEET 3 OF 4)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

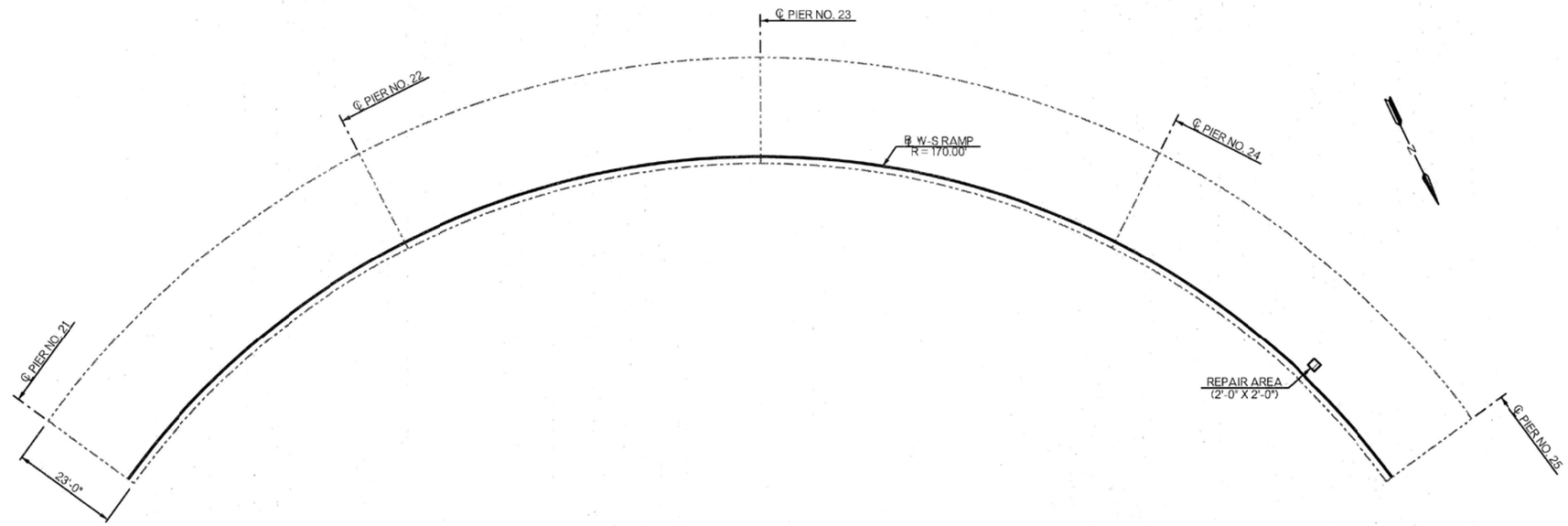
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DESIGNED	JMH	2/25	
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LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:
RECOMMENDED:
DESIGN MANAGER 7/8/26
CITY ENGINEER

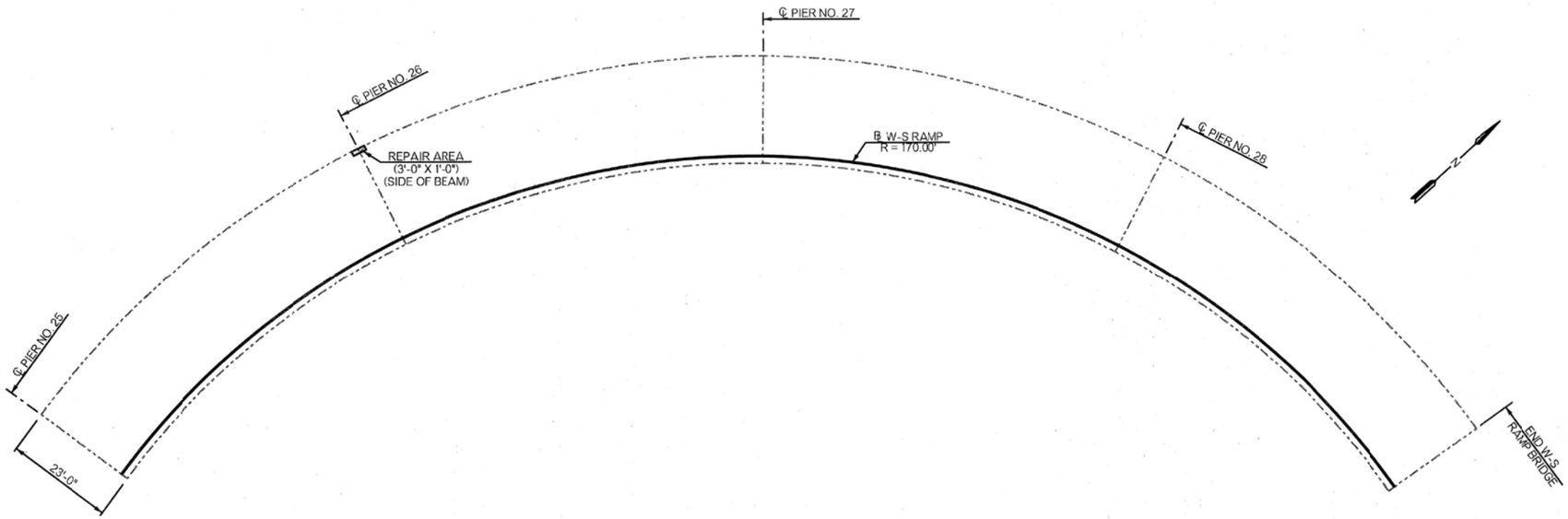
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INFORMATION INCLUDED IN THESE PLANS IS BASED ON THE EXISTING AS-BUILT PLANS. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO ACCCURATELY VERIFY THIS INFORMATION PRIOR TO ANY DEMOLITION OR CONSTRUCTION. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTE "VERIFICATION OF EXIS"ING CONDITIONS" ON SHEET NO. 2.



BOX GIRDER REPAIR PLAN - SPAN NOS. 1 - 4



BOX GIRDER REPAIR PLAN - SPAN NOS. 5 - 8

NOTE:
ALL REPAIR AREAS SHOWN ARE APPROXIMATE. THE CONTRACTOR AND ENGINEER SHALL VERIFY AND ACCURATELY LOCATE AREAS TO BE REPAIRED AND ADJUST AS NEEDED.

LEGEND

EXISTING STRUCTURE

PNEUMATICALLY PLACED MORTAR OR (PL) REPAIR BRIDGE ITEMS DEPENDING ON REPAIR DEPTH

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER
Bradley Randal Thompson
7/14/26
22868
OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

BRIDGE 258 - SUPERSTRUCTURE REPAIRS
(SHEET 4 OF 4)
CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

GARVER

PLANS AND ESTIMATES PREPARED BY:
6100 S. YALE AVE., SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	DSP	10/24	APPROVED:
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SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			

PLAN SCALE
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HORIZONTAL:
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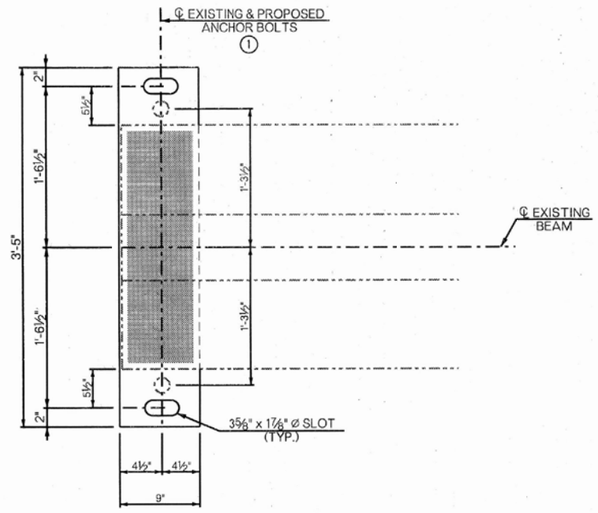
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CITY ENGINEER

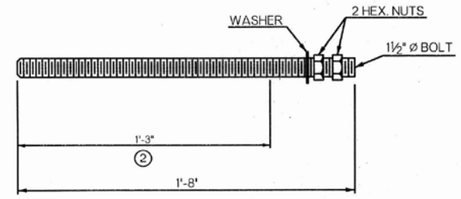
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EXPANSION BEARING PLAN



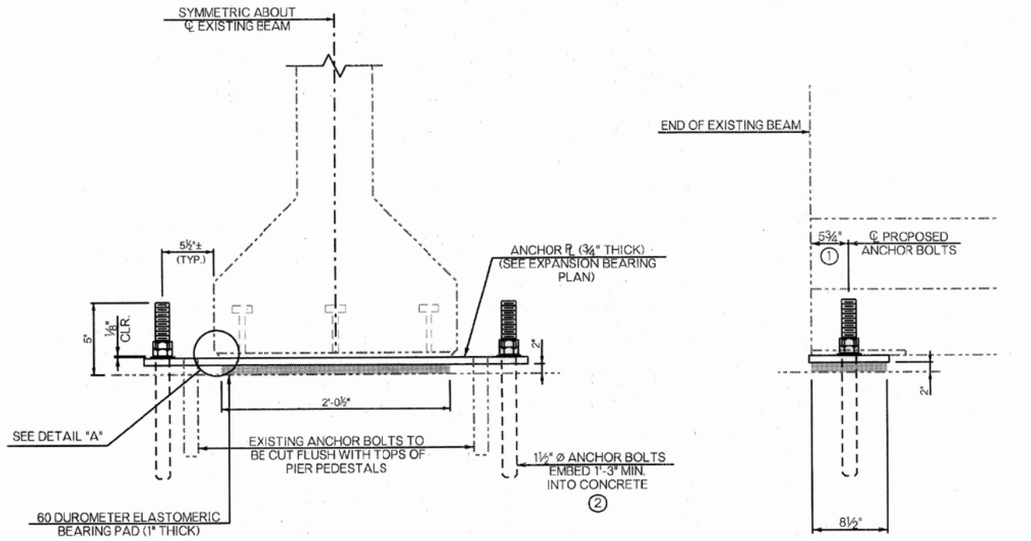
DRILLED AND EPOXY ANCHOR BOLT DETAIL

BEARING REPLACEMENT SCHEDULE			
LOCATION		TYPE	NO. OF BEARINGS ③
PIER NO. 4	BACK STA.	EXPANSION	4
	FORWARD STA.	EXPANSION	4
PIER NO. 8	BACK STA.	EXPANSION	4
	FORWARD STA.	EXPANSION	4
PIER NO. 12	BACK STA.	EXPANSION	4
	FORWARD STA.	EXPANSION	4
PIER NO. 16	BACK STA.	EXPANSION	4
	FORWARD STA.	EXPANSION	4

③ EXACT LOCATION OF EXPANSION BEARING REPLACEMENTS SHALL BE DETERMINED IN THE FIELD BY THE CITY OF TULSA INSPECTOR OR WHEN THE SECTION LOSS EXCEEDS 25%.

NOTES:
BEARING REPLACEMENTS SHALL OCCUR AFTER THE SUBSTRUCTURE REPAIRS HAVE BEEN MADE AND BEFORE THE SUPERSTRUCTURE REPAIRS ARE MADE.

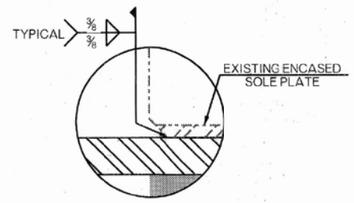
PAYMENT WILL BE MADE ONLY FOR THE ACTUAL NUMBER OF BEARINGS REPLACED.



END VIEW

SIDE VIEW

DETAILS OF NEW BEARING ASSEMBLIES



DETAIL "A"

NOTES:
THE EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH WITH THE TOPS OF THE EXISTING PIER CAPS.

ALL COSTS OF THE REMOVAL OF EXISTING BEARING ASSEMBLIES INCLUDING THE CUTTING OF EXISTING ANCHOR BOLTS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "REMOVAL OF BRIDGE ITEMS".

PROVIDE STRUCTURAL STEEL FOR ANCHOR PLATES IN ACCORDANCE WITH ASTM A240 (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). FOR ANCHOR BOLTS, PROVIDE CONTINUOUSLY THREADED BARS IN ACCORDANCE WITH ASTM A320, CLASS 2, GRADE B8M (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). USE AUSTENITIC STAINLESS STEEL NUTS AND WASHERS CONFORMING TO ASTM A194, GRADE 8M AND ASTM A320, RESPECTIVELY. PERFORM ALL WELDING CONSISTENT WITH PROCEDURES FOR STAINLESS STEEL.

① NO EXISTING REINFORCING BARS IN THE EXISTING PIER CAPS SUPPORTING THE BEARING SHALL BE CUT DURING THE INSTALLATION OF THE ANCHOR BOLTS. THE LOCATION OF THE ANCHOR BOLTS MAY BE ADJUSTED TO ACCOMMODATE THIS REQUIREMENT. HOWEVER, THE ANCHOR BOLTS SHALL BE SET AS CLOSE TO THE ℄ PROPOSED ANCHOR BOLTS AS POSSIBLE.

② ACTUAL EMBEDMENT LENGTH FOR DRILLED AND EPOXY ANCHORS SHALL BE DETERMINED BY THE ANCHORAGE ASSEMBLY MANUFACTURER AND APPROVED BY THE ENGINEER. SEE SHEET NO. 3 FOR ADDITIONAL REQUIREMENTS.

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

BRIDGE 258 - BEARING DETAILS

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
100 W. 21st. ST. OVER ARKANSAS RIVER

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
GARVER
6100 S. YALE AVE. SUITE 1300 Phone: (918) 250-5922
TULSA, OKLAHOMA 74136 Fax: (916) 858-0107

DRAWN	SJL	3/25	APPROVED:
DESIGNED	JMH	3/25	
SURVEY			
PROJ. MGR.			
LEAD MGR.	EAS	7/26	
FIELD MGR.			
RECOMMENDED:			
DESIGN MANAGER	HBS	8-26	
CITY ENGINEER			

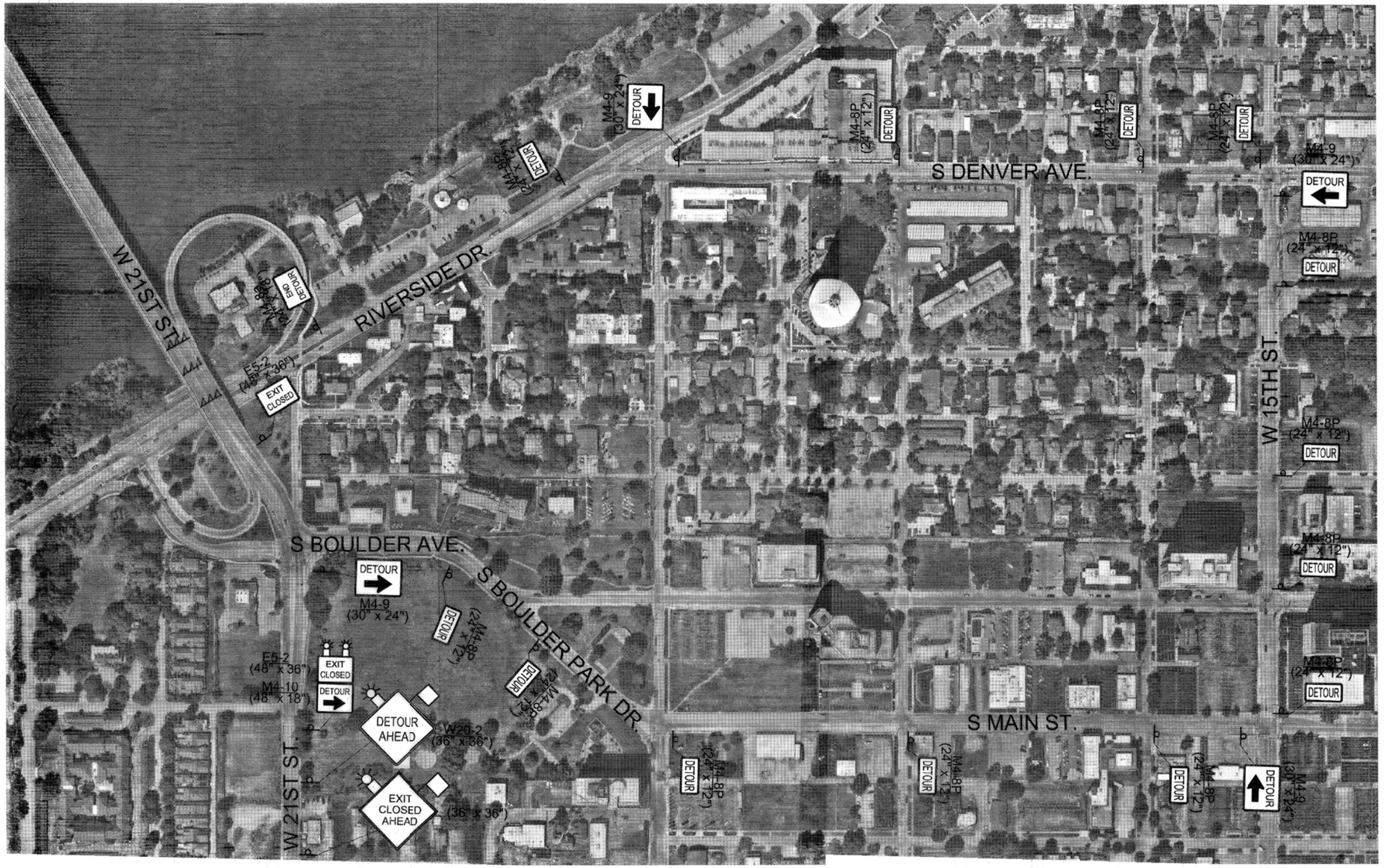
PLAN SCALE
PROFILE SCALE HORIZONTAL:
VERTICAL:

LICENSED PROFESSIONAL ENGINEER Bradley Randal Thompson 7/14/26 22868 OKLAHOMA

ADVERTISE DATE:		
REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/12/2024
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 95 OF 99 SHEETS

S.J.Leach 5/21/2026 07:57:07
WORKSPACE:MicroStation_Imperial
L:\2024\T03-2401662 - COT\T03 - Br 245 and 258 Rehab\Drawings\BRIDGE\BRIDGE 258 - 21ST\COT_2436B0005Z-245,258-258_BEARING DETAILS.dgn



150 75 0 150 300 450

SCALE: 1" = 150'

N

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

MAC MILBURN 33772 LICENSED PROFESSIONAL ENGINEER OKLAHOMA

BRIDGE 258 - DETOUR MAP
PHASE 1

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
PROJECT NO. 2436B0005Z-245/258
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DRAWN	JHL	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	12/26
FIELD MGR.		

APPROVED:

PLAN SCALE 1"=150'
PROFILE SCALE HORIZONTAL: 1"=150'
VERTICAL: 1"=150'

RECOMMENDED:

HAS 8.26
DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:

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ATLAS PAGE NO. 5, 18, 34, 35 SHEET 96 OF 99 SHEETS

$$USER$$ $$DATE$$ $$TIME$$
WORKSPACE:$$WORKSPACE$$
$$FILE$$

MATCHLINE THIS SHEET

20 10 0 20 40 60

SCALE: 1" = 20'

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

NOTE:
THE TRAIL SHALL REMAIN OPEN. PEDESTRIAN PROTECTION SHALL BE PROVIDED WHEN WORK IS BEING PERFORMED IN THE VICINITY OF THE TRAIL.

MATCHLINE THIS SHEET

20 10 0 20 40 60

SCALE: 1" = 20'

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 33772 OKLAHOMA

BRIDGE 258 - TRAFFIC CONTROL
PHASE 1 (SHEET 1 OF 1)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
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DRAWN	JHL	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		

APPROVED:

RECOMMENDED:

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

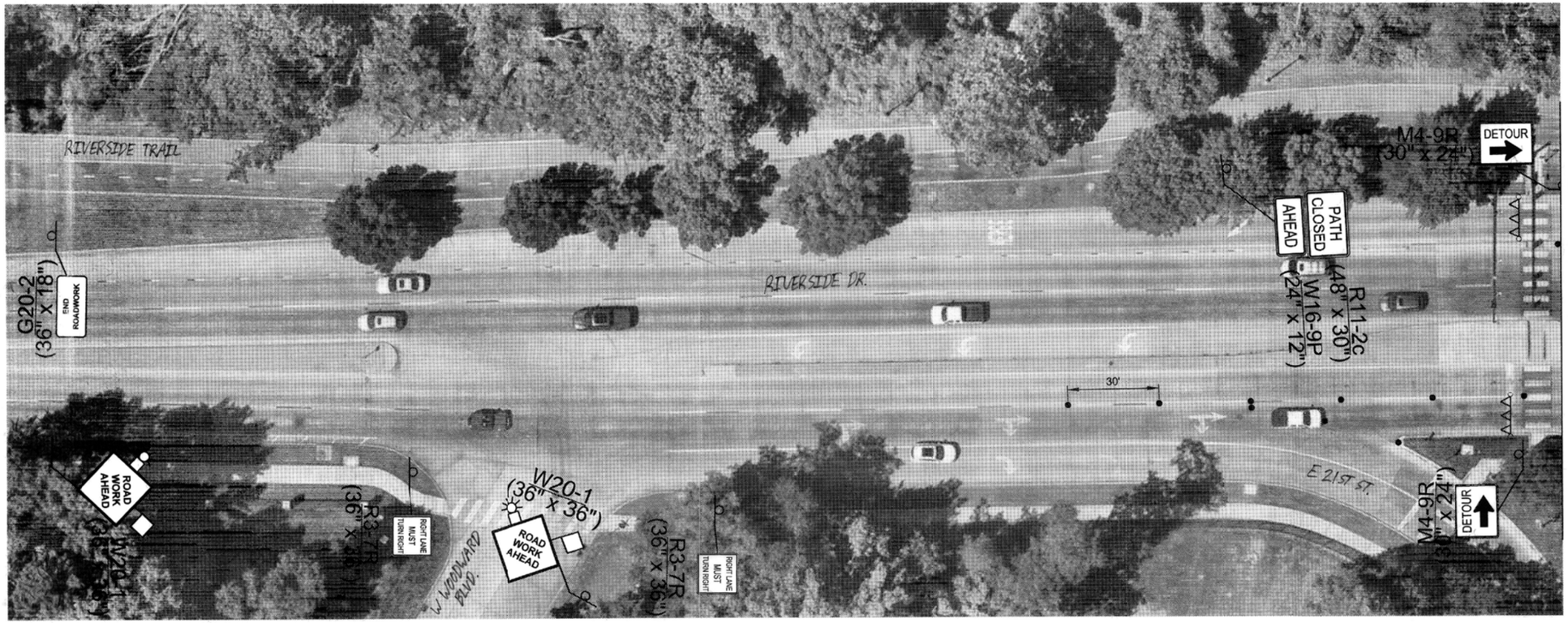
HAS 8.26
DESIGN MANAGER

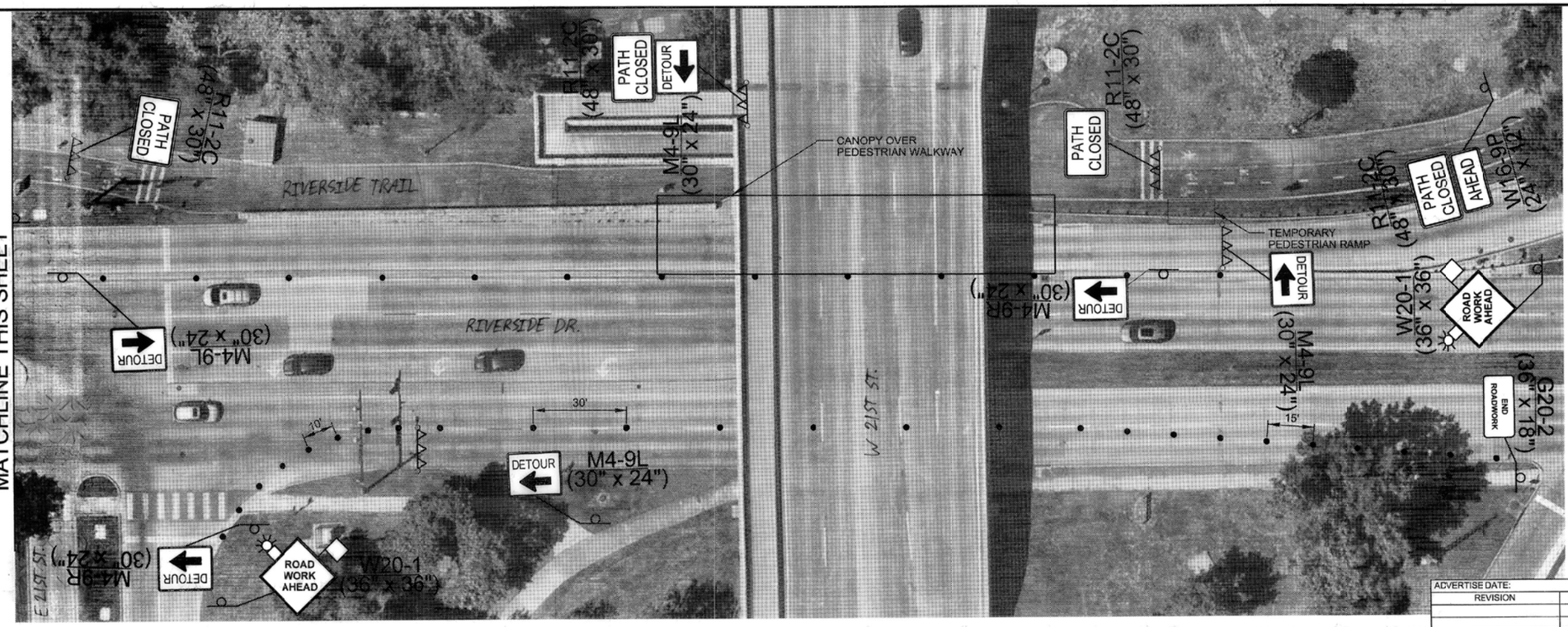
CITY ENGINEER

ADVERTISE DATE:		
REVISION	BY	DATE

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DATE: 10/12/2026
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SHEET 97 OF 99 SHEETS

$$USERS$$ $$DATES$$ $$TIMES$$
WORKSPACE=$$WORKSPACES$$
$$FILES$$





BRIDGE 258 - TRAFFIC CONTROL
PHASE 1B (SHEET 1 OF 1)

CITYWIDE BRIDGE MAINTENANCE AND REHABILITATION
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TULSA, OKLAHOMA 74136 Fax: (918) 858-0107

DRAWN	CTC	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	1/26
FIELD MGR.		

APPROVED:

PLAN SCALE 1"=20'
PROFILE SCALE HORIZONTAL: 1"=20' VERTICAL: 1"=20'
RECOMMENDED:
DESIGN MANAGER
CITY ENGINEER

ADVERTISE DATE:

REVISION	BY	DATE

FILE: DRAWING:
DATE: 10/2/2025
ATLAS PAGE NO. 5, 16, 34, 35
SHEET 98 OF 99 SHEETS

$$USER$$ $$DATE$$ $$TIME$$
WORKSPACE:$$WORKSPACE$$
$$FILE$$

MATCHLINE THIS SHEET

20 10 0 20 40 60

SCALE: 1" = 20'

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TRAFFIC CONTROL SIGN ASSEMBLY
- CONSTRUCTION BARREL
- TUBULAR MARKERS

NOTE:
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MATCHLINE THIS SHEET

20 10 0 20 40 60

SCALE: 1" = 20'

BEFORE YOU DIG 811 1-800-522-OKIE CALL OKIE

LICENSED PROFESSIONAL ENGINEER MAC MILBURN 23772 OKLAHOMA

BRIDGE 258 - TRAFFIC CONTROL
PHASE 2 (SHEET 1 OF 1)
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DRAWN	JHL	12/24
DESIGNED	HLT	12/24
SURVEY		
PROJ. MGR.		
LEAD MGR.	EAS	7/26
FIELD MGR.		8/26

APPROVED:

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

RECOMMENDED:

HBS 8.26
DESIGN MANAGER

CITY ENGINEER

ADVERTISE DATE:

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SHEET 99 OF 99 SHEETS

$$USER$$ $$DATE$$ $$TIME$$
WORKSPACE $$WORKSPACE$$
$$FILE$$