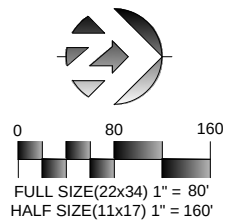
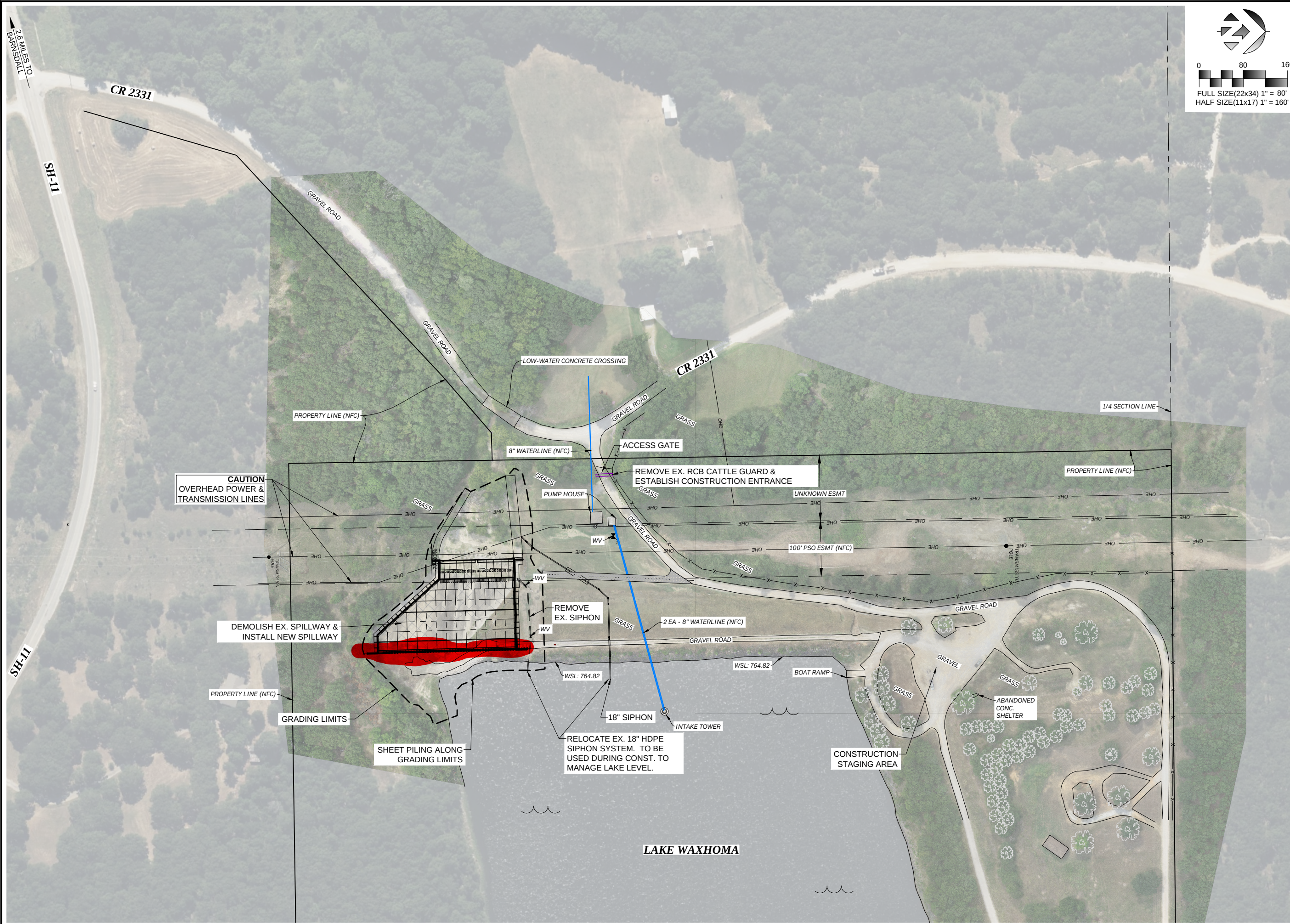


2/24/2026 8:52:51 AM



BID PLANS



Plans and Estimates Prepared by:	KE KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7911	BY	DATE
		REVISION	

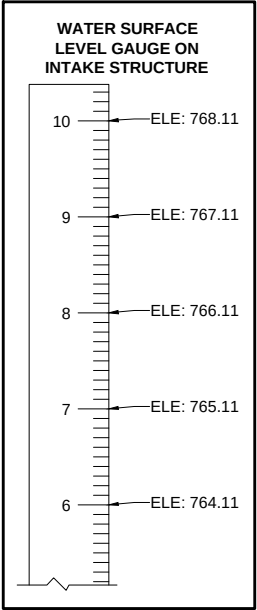
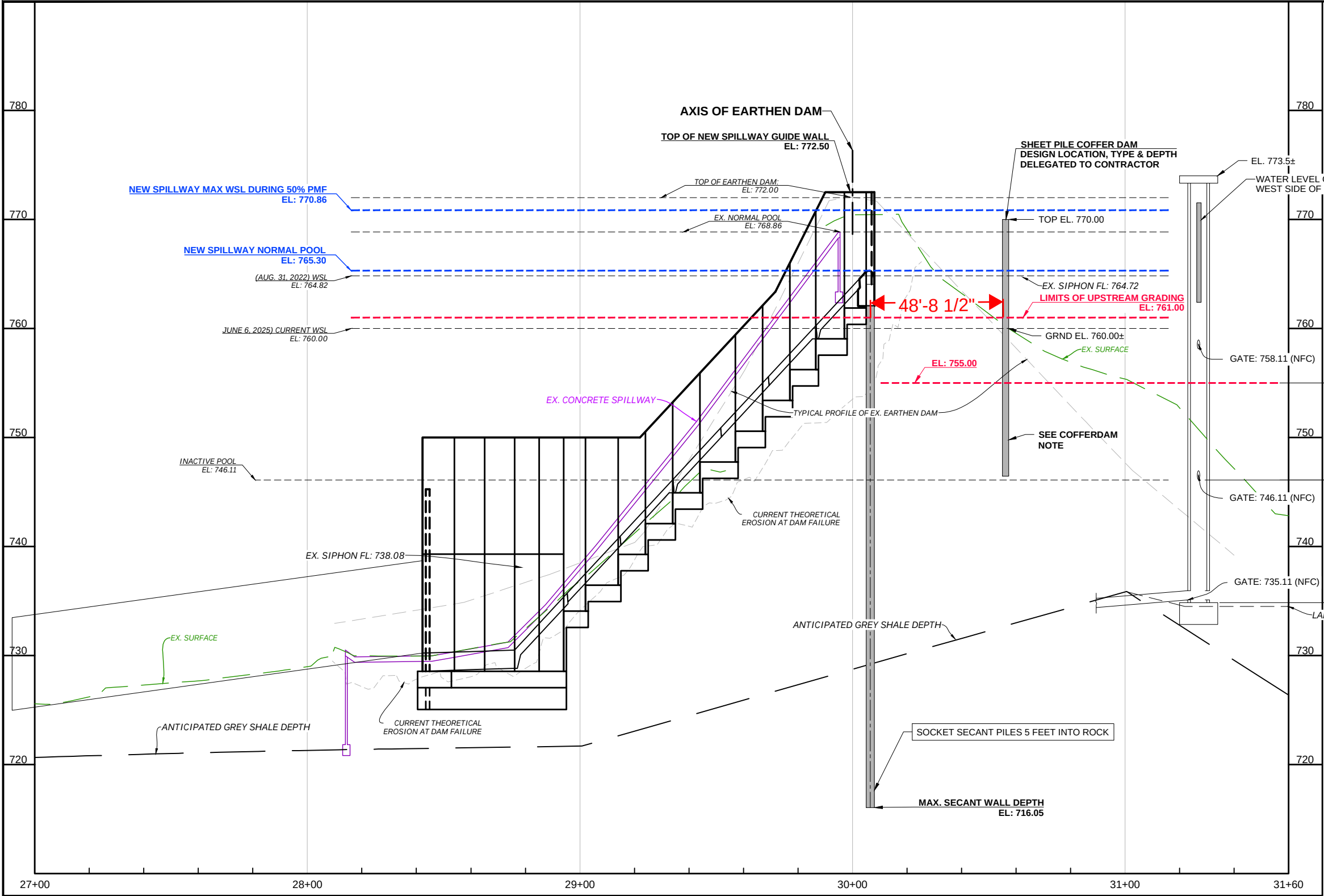
WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

GENERAL SITE PLAN
& ORTHOIMAGE

PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRJ
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE:	FEBRUARY 24, 2026
SHEET NO.	13 OF 101
DRAWING NO.	04-C-1001

2/24/2026 8:53:09 AM



NOTE-TEMPORARY OPERATION OF THE LAKE:
THE CONTRACTOR SHALL LOWER THE LAKE ELEVATION BETWEEN EL 753.0 AND EL 755.0. THIS ELEVATION RANGE SHALL BE THE NEW NORMAL POOL ELEVATION DURING THE CONSTRUCTION OF THIS PROJECT.

FLOOD PUMPS SHALL BE TURNED ON WHEN LAKE ELEVATION IS AT EL 755.0 AND RISING. SIPHON SHALL BE ACTIVATED WHEN IT CAN OPERATE, ESPECIALLY WITH MORE RAIN FORECASTS.

FOR ADDITIONAL MODELING DETAILS, SEE THE CONSTRUCTION FLOOD MANAGEMENT MEMORANDUM, DATED 8-7-2025, BY WSB. MODELING ACCURACY DOES NOT CONSIDER ANY UNDERGROUND BASE INFLOW OR BACK-TO-BACK RAINFALL EVENTS.

PROFILE AT C.R.L. OF NEW SPILLWAY

COFFERDAM NOTE:
THE COFFERDAM TYPE, ENGINEERING, SPECIFICATIONS, DETAILS, PROCUREMENT, INSTALLATION, OPERATION OF THE LAKE AND AT THE END OF THE PROJECT REMOVAL SHALL BE DELEGATED TO THE CONTRACTOR AND ALL COST CONSIDERED IN THE PROJECT BID. ALL MEANS, METHODS, CALCULATIONS AND DETAILING SHALL BE PERFORMED BY AN OKLAHOMA LICENSED PROFESSIONAL ENGINEER. ALL TEMPORARY COFFERDAM DETAILS SHOWN ON KE PLANS ARE SCHEMATICS AND SHALL BE DETAILED IN THE DELEGATED DESIGN PROCESS.

AREA-CAPACITY DATA			
DESCRIPTION	ELEVATION	AREA (ACRES)	CAPACITY (AC-FT)
EX. NORMAL POOL	768.00	128.68	1832.10
NEW NORMAL POOL	765.30	115.56	1509.60
LIMITS OF CONST. GRADING	761.00	99.76	1046.30
TOP GATE FLOWLINE	758.11	86.30	774.69
MIDDLE GATE FLOWLINE	746.11	25.49	161.37
NOTE: THIS DATA IS FROM THE "OWRB HYDROGRAPHIC SURVEY OF WAXHOMA LAKE" FINAL REPORT DATED OCTOBER 31, 2011.			

NEW LAKE OPERATION ZONES

TOP OF SPILLWAY	EL. 772.50	1.14' EMERGENCY
TOP OF EARTHEN DAM	EL. 772.00	
NEW SPILLWAY 50% PMF	EL. 770.86	5.56' FLOOD POOL
NEW SPILLWAY NORMAL POOL	EL. 765.30	
UPPER GATE FLOWLINE	EL. 751.11	7.19' UPPER WATER STORAGE
MIDDLE GATE FLOWLINE	EL. 746.11	
		12' LOWER WATER STORAGE
		DEAD POOL

BID PLANS

Plans and Estimates Prepared by:
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8556 E. 101ST ST., STE C TULSA, Oklahoma 74133 (918) 369-7911

DATE									
BY									
REVISION									

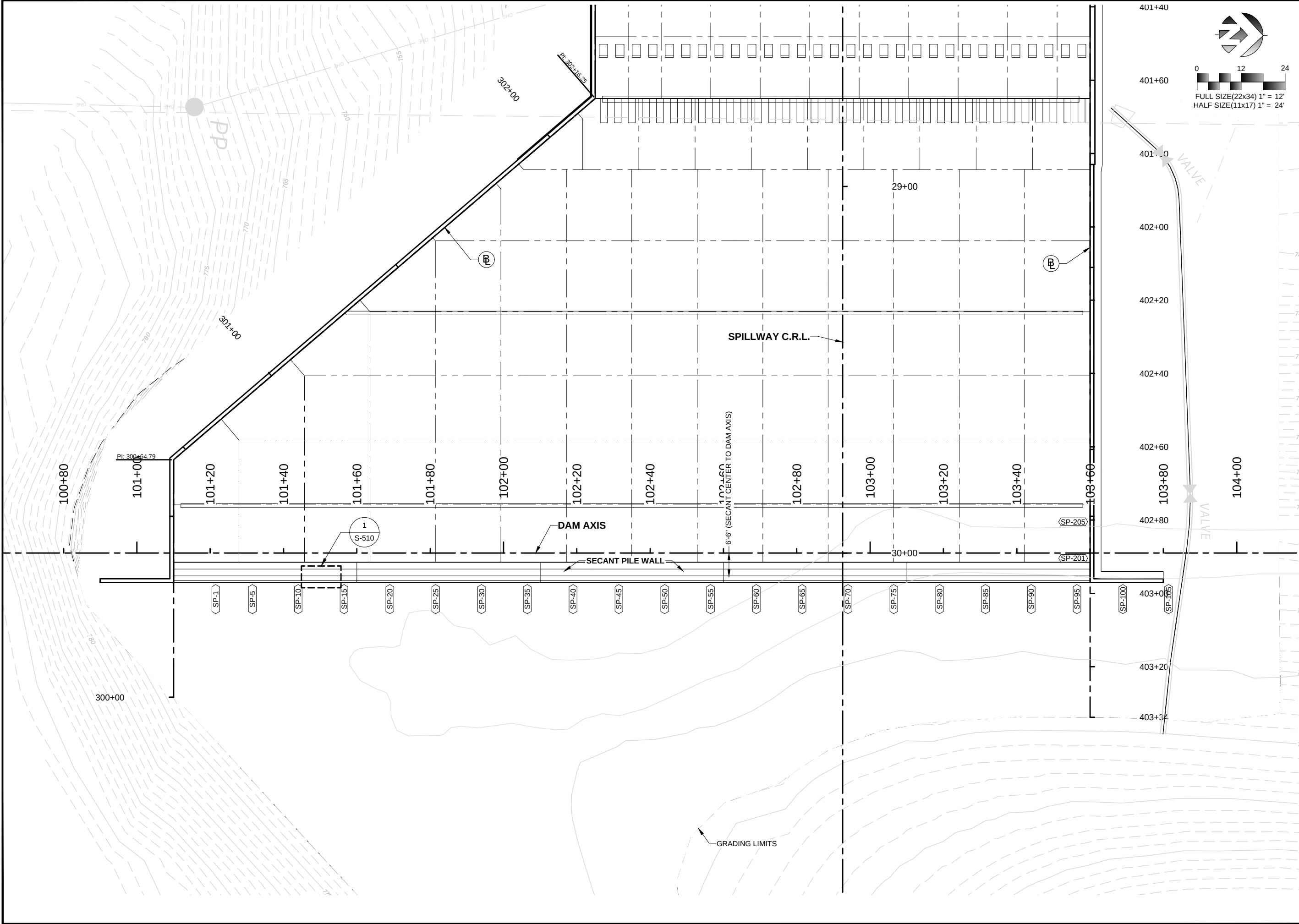
WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

LAKE WATER SURFACE LEVEL MANAGEMENT PLAN

PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRJ
DRAWN	ZLM, AK
ATLAS PAGE NO.	N/A
DATE	FEBRUARY 24, 2026
SHEET NO.	17 OF 101
DRAWING NO.	04-C-1030

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REV/SION	DATE



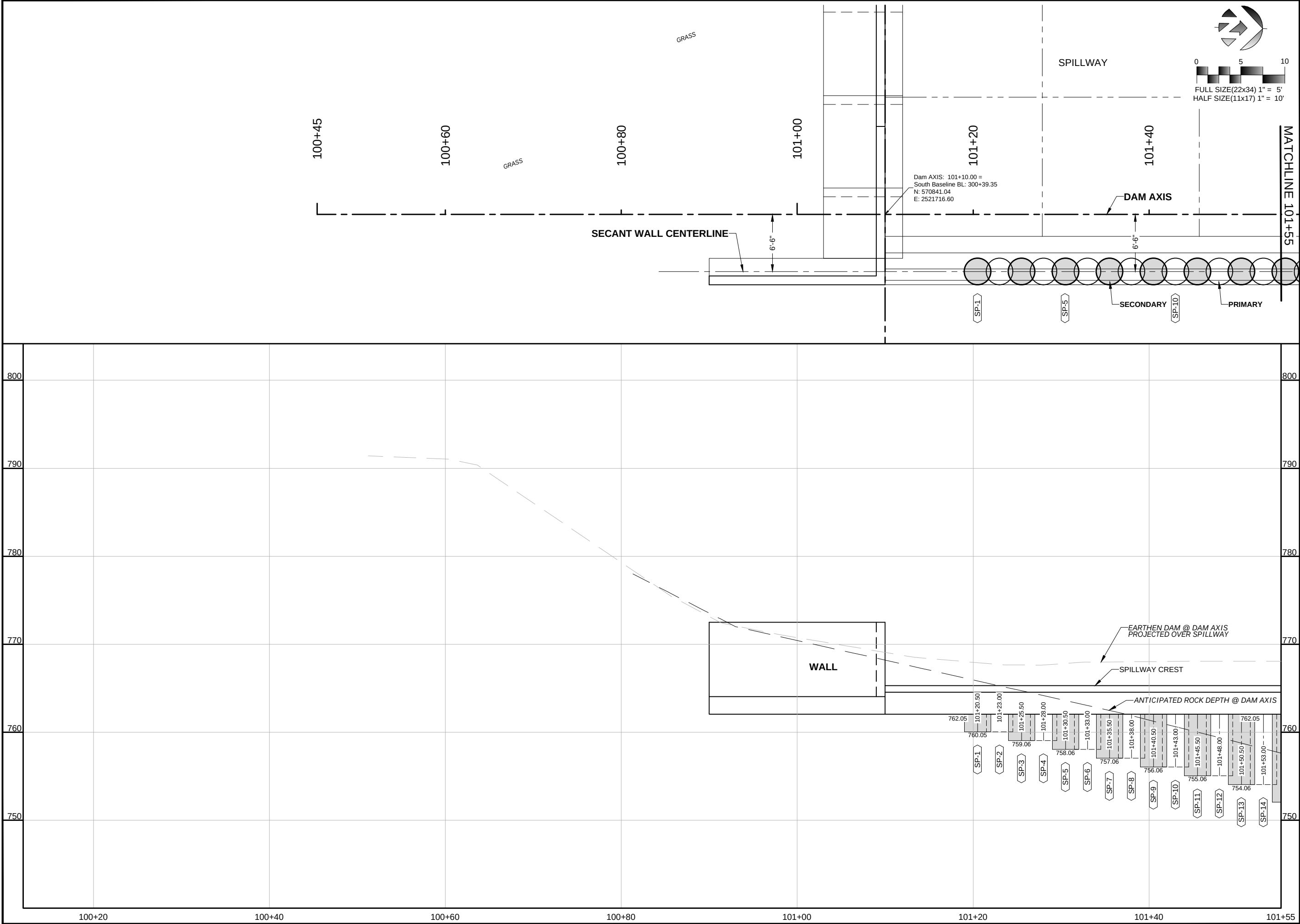
WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

SECTION KEY PLAN & OVERVIEW

PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRU
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE:	FEBRUARY 24, 2026
SHEET NO.	45 OF 101
DRAWING NO.	05-S-1000

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REV/SION	BY	DATE

WAXHOMA DAM IMPROVEMENTS

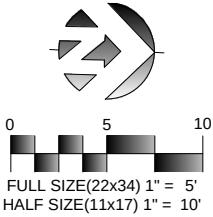
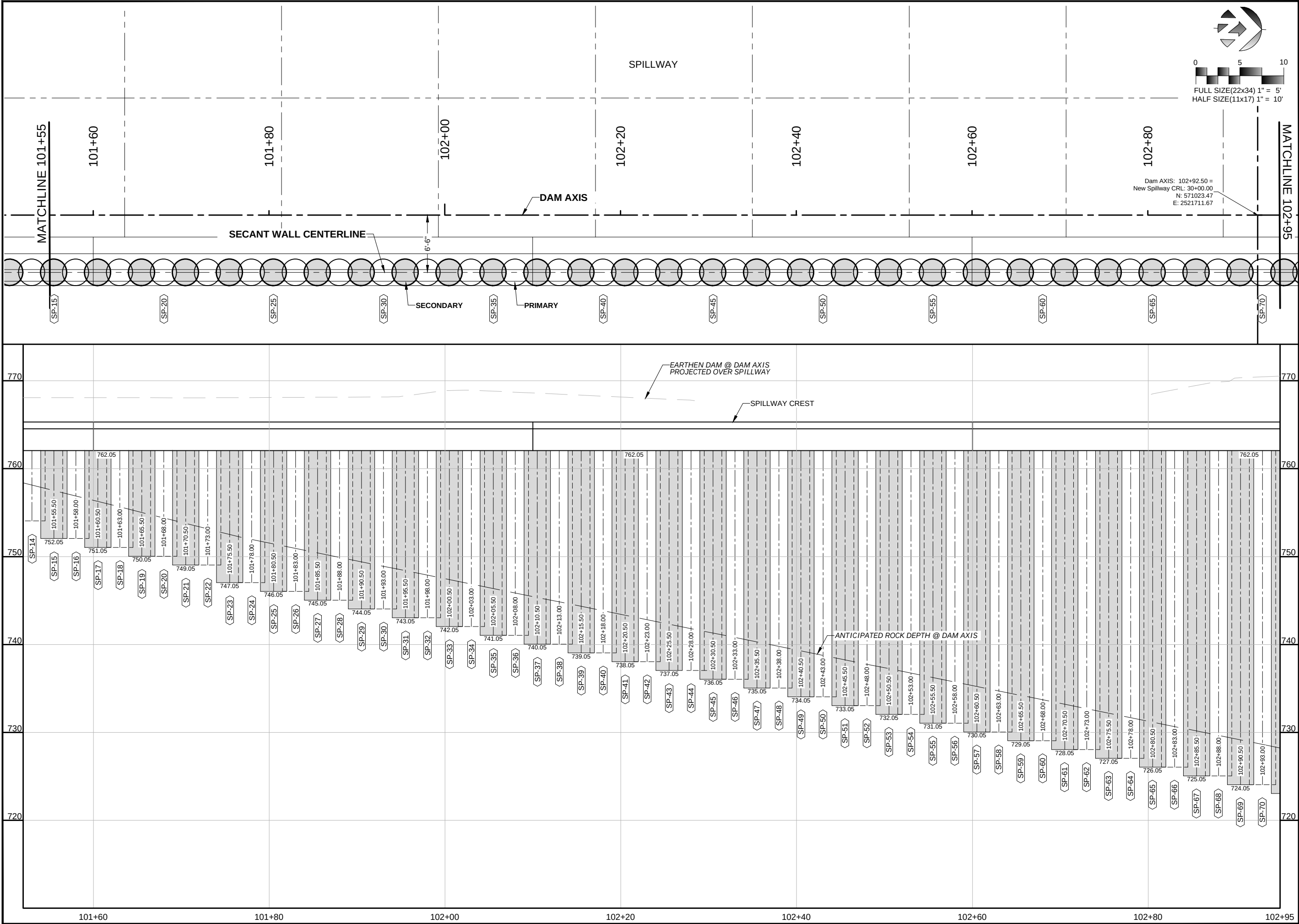
BARNSDALL, OKLAHOMA

SECANT PILE WALL

PLAN & PROFILE
(1 OF 5)

PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRU
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE:	FEBRUARY 24, 2026
SHEET NO.	46 OF 101
DRAWING NO.	05-S-1010

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Dam AXIS: 102+92.50 =
New Spillway CRL: 30+00.00
N: 571023.47
E: 2521711.67

OKIE811

Know what's below. Call before we dig.

WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP

8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7911

PROJECT #

2114

SURVEY

HEARTLAND SURVEYING

DESIGNED

DAK, JRU

DRAWN

ZLM, AK

ATLAS PAGE NO:

N/A

DATE:

FEBRUARY 24, 2026

SHEET NO.

47 OF 101

DRAWING NO.

05-S-1011

REV/ISON

DATE

BY

DATE

21311

2/24/2026

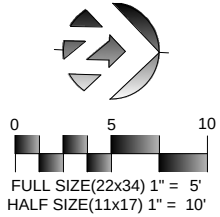
OKLAHOMA

PROFESSOR

Shane J. King

ENGINEER

BID PLANS

[illegible][illegible]

WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

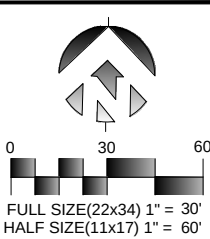
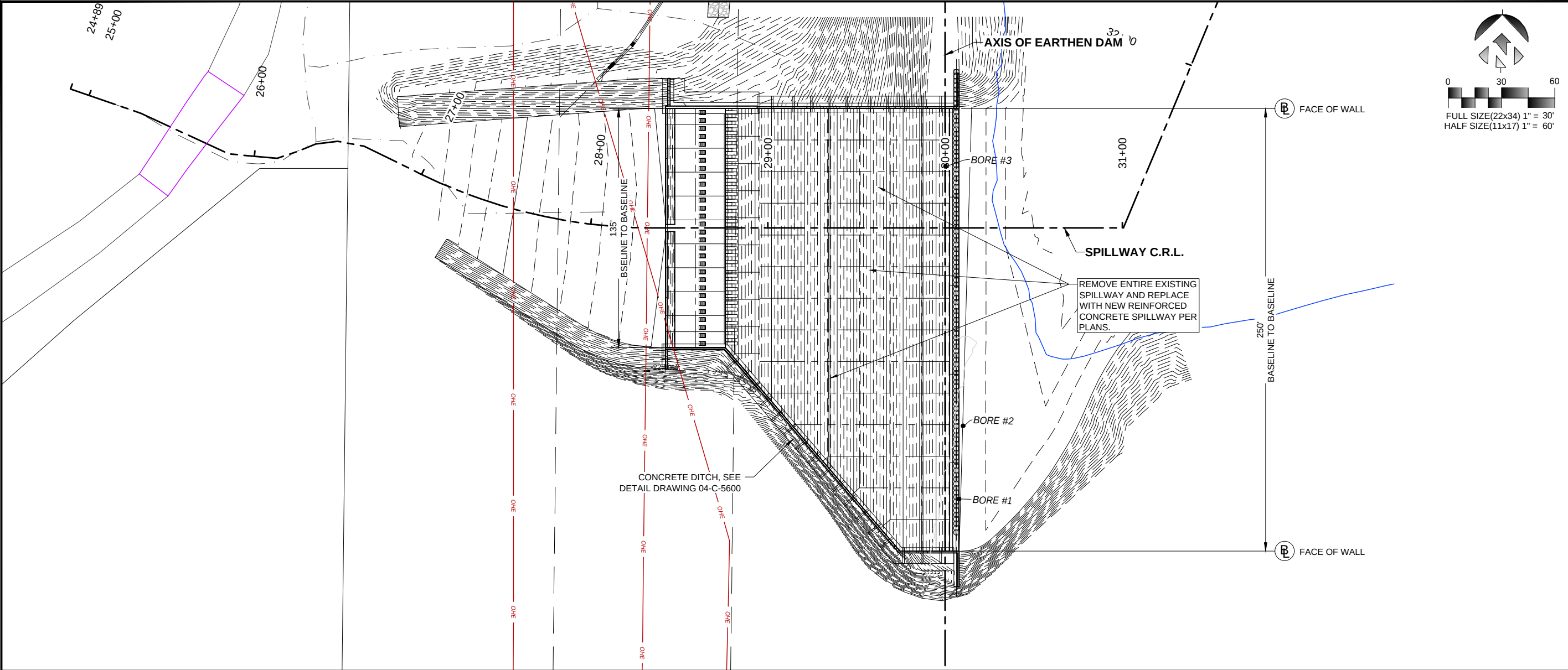
SECANT PILE WALL

PLAN & PROFILE

(3 OF 5)

PROJECT #	21.14
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRU
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE: FEBRUARY 24, 2026	
SHEET NO.	48 OF 101
DRAWING NO.	05-S-1012

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BID PLANS

Plans and Estimates Prepared by:
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REVISION	BY	DATE

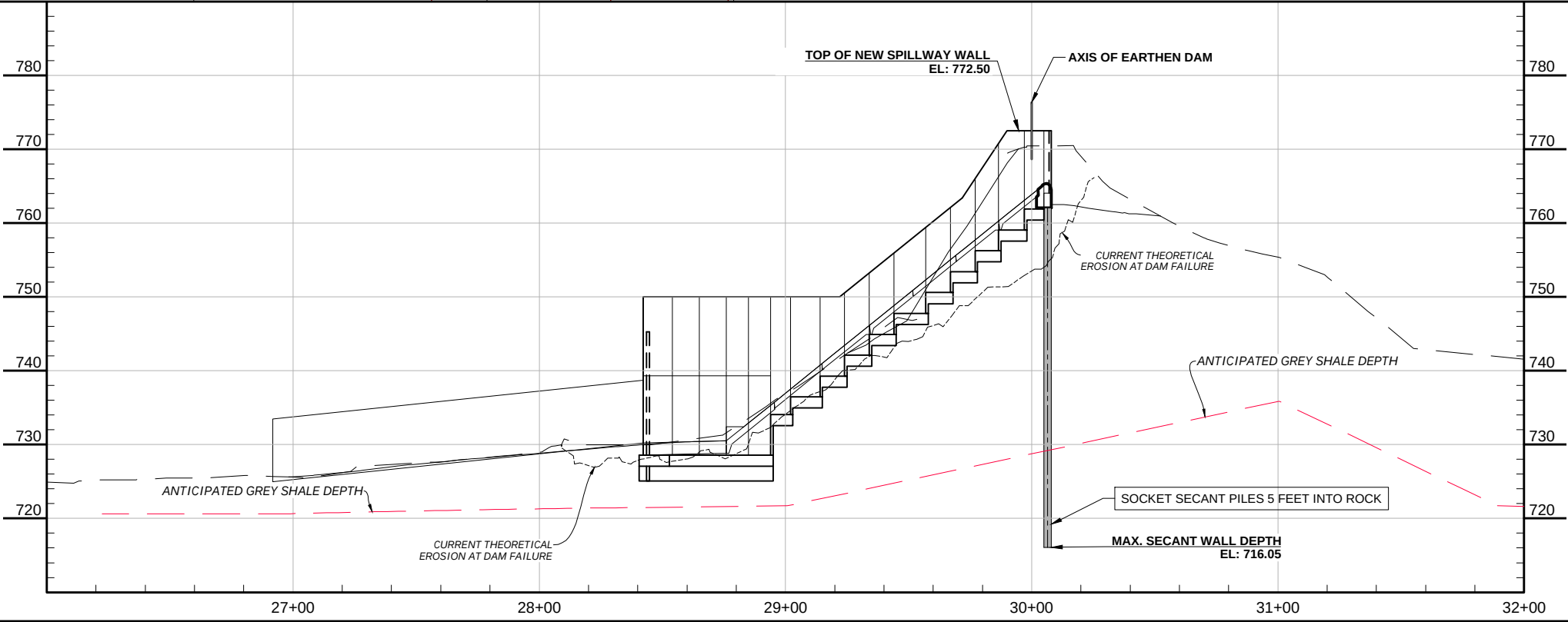
WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

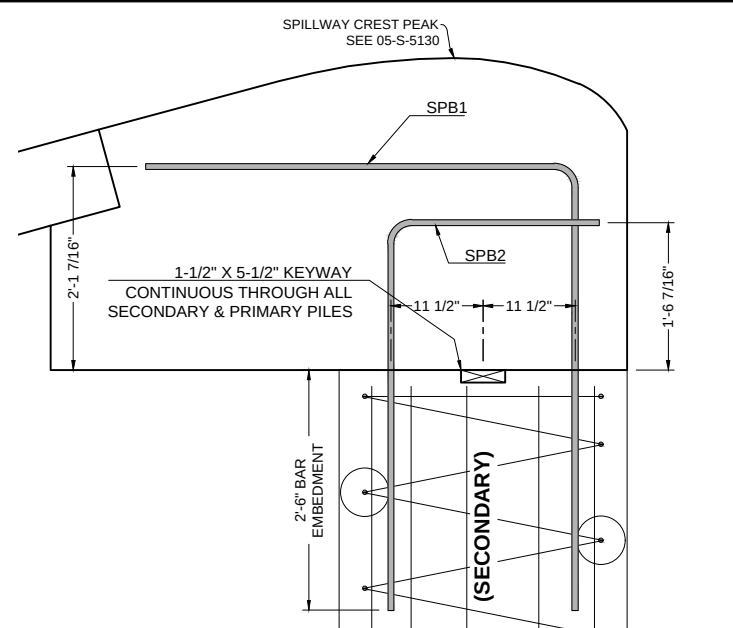
SPILLWAY & BASIN

PLAN & PROFILE

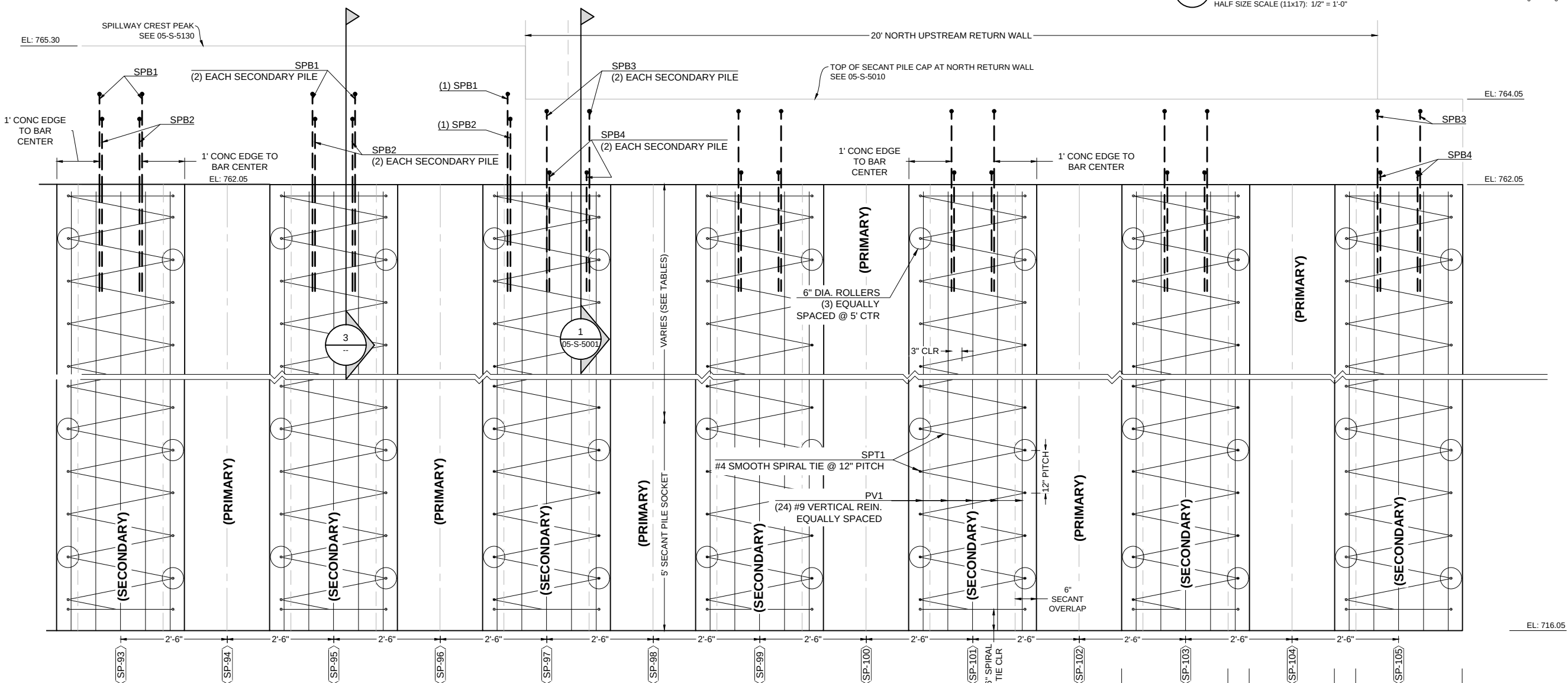
PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRU
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE:	FEBRUARY 24, 2026
SHEET NO.	51 OF 101
DRAWING NO.	05-S-1100



FULL SIZE SCALE (22x34): 1-1/2" = 1'-0"
HALF SIZE SCALE (11x17): 3/4" = 1'-0"



3 FULL SIZE SCALE (22x34): 1" = 1'-0"
HALF SIZE SCALE (11x17): 1/2" = 1'-0"



2 FULL SIZE SCALE (22x34): $3/4" = 1'-0"$
 HALF SIZE SCALE (11x17): $3/8" = 1'-0"$

Plans and Estimates Prepared by:

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REVISION	BY	DATE



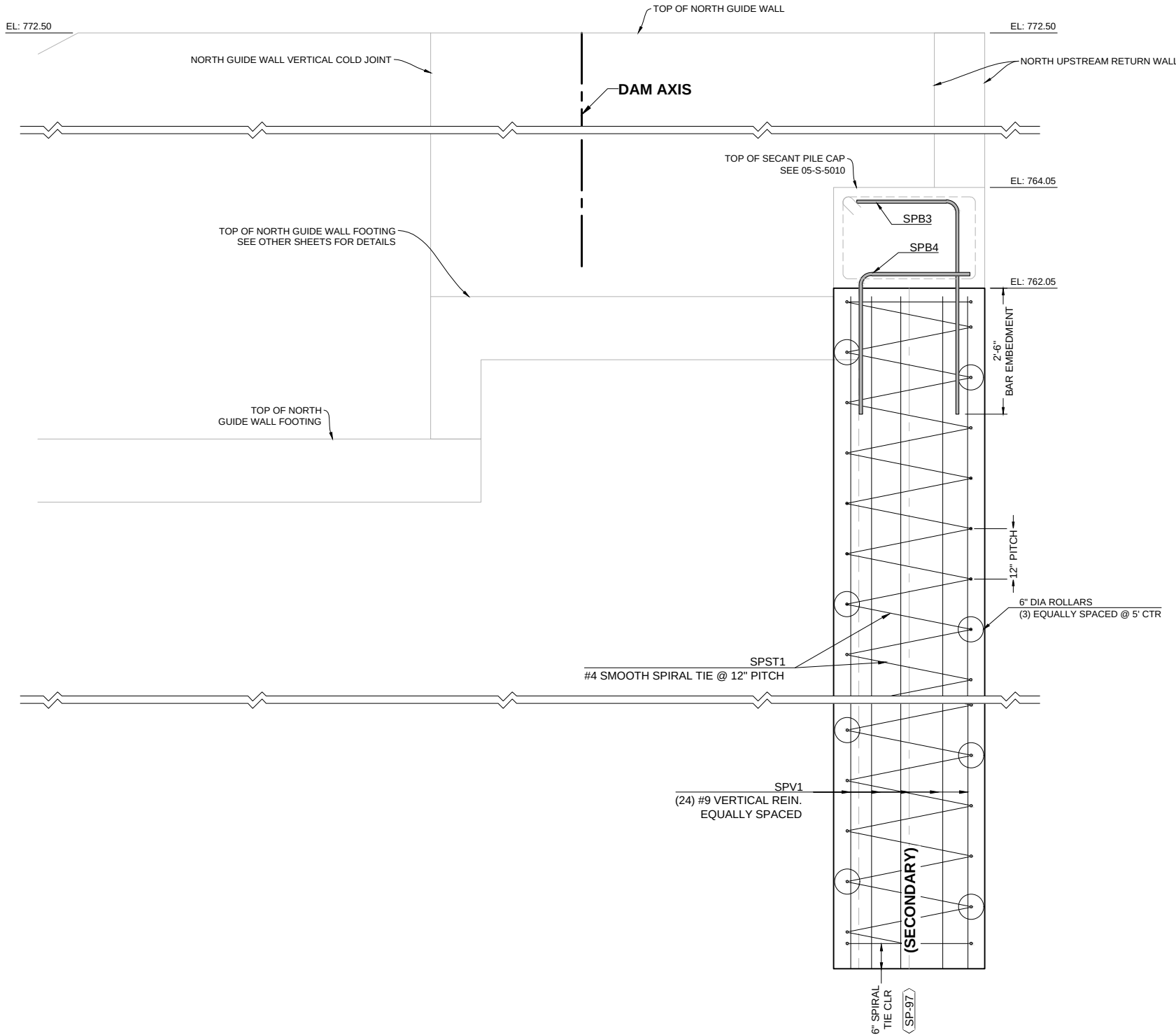
WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

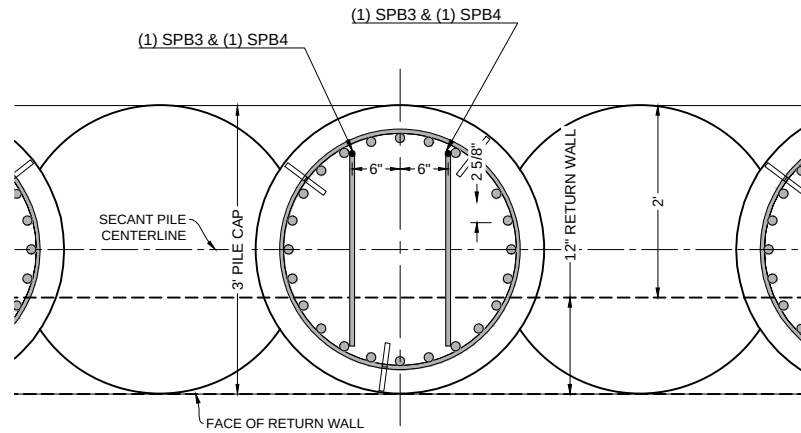
SECANT PILE WALL

DETAILS
(1 OF 2)

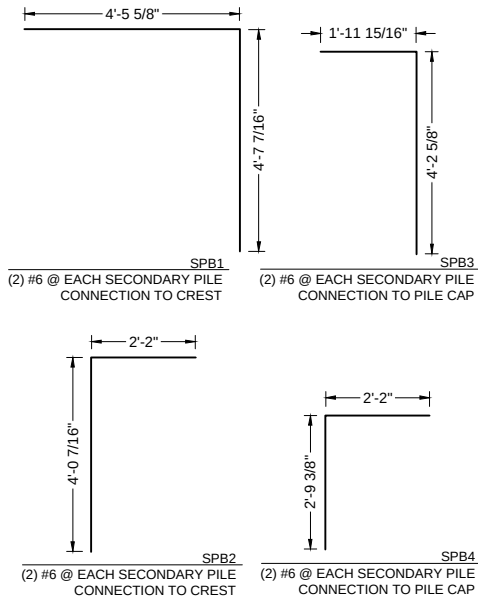
PROJECT #	21.14
SURVEY	HEARTLAND SURVEY IN
DESIGNED	DAK, JRJ
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE: FEBRUARY 24, 2026	
SHEET NO.	66 OF 101
DRAWING NO.	05-S-5000



1 SECTION - SECANT PILE WALL CONNECTION TO PILE CAP
TYPICAL DIMENSIONS & REINFORCEMENT
FULL SIZE SCALE (22x34): 3/4" = 1'-0"
HALF SIZE SCALE (11x17): 3/8" = 1'-0"



2 SECANT PILE WALL CONNECTION TO CAP
REINFORCEMENT
FULL SIZE SCALE (22x34): 1" = 1'-0"
HALF SIZE SCALE (11x17): 1/2" = 1'-0"



3 SECANT PILE WALL
BENT BAR
FULL SIZE SCALE (22x34): 1/2" = 1'-0"
HALF SIZE SCALE (11x17): 1/4" = 1'-0"

BID PLANS

Plans and Estimates Prepared by:
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8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7911

DATE	BY	REVISION

WAXHOMA DAM IMPROVEMENTS

BARNSDALL, OKLAHOMA

SECANT PILE WALL

DETAILS
(2 OF 2)

PROJECT #	2114
SURVEY	HEARTLAND SURVEYING
DESIGNED	DAK, JRU
DRAWN	ZLM, AK
ATLAS PAGE NO:	N/A
DATE:	FEBRUARY 24, 2026
SHEET NO.	67 OF 101
DRAWING NO.	05-S-5001