

# SAPULPA DEVELOPMENT AUTHORITY (SDA)

## ROUTE 66 INDUSTRIAL PARK PHASE 1 - BASE BID & PHASE 2 - ALT. 1 SITE DEVELOPMENT

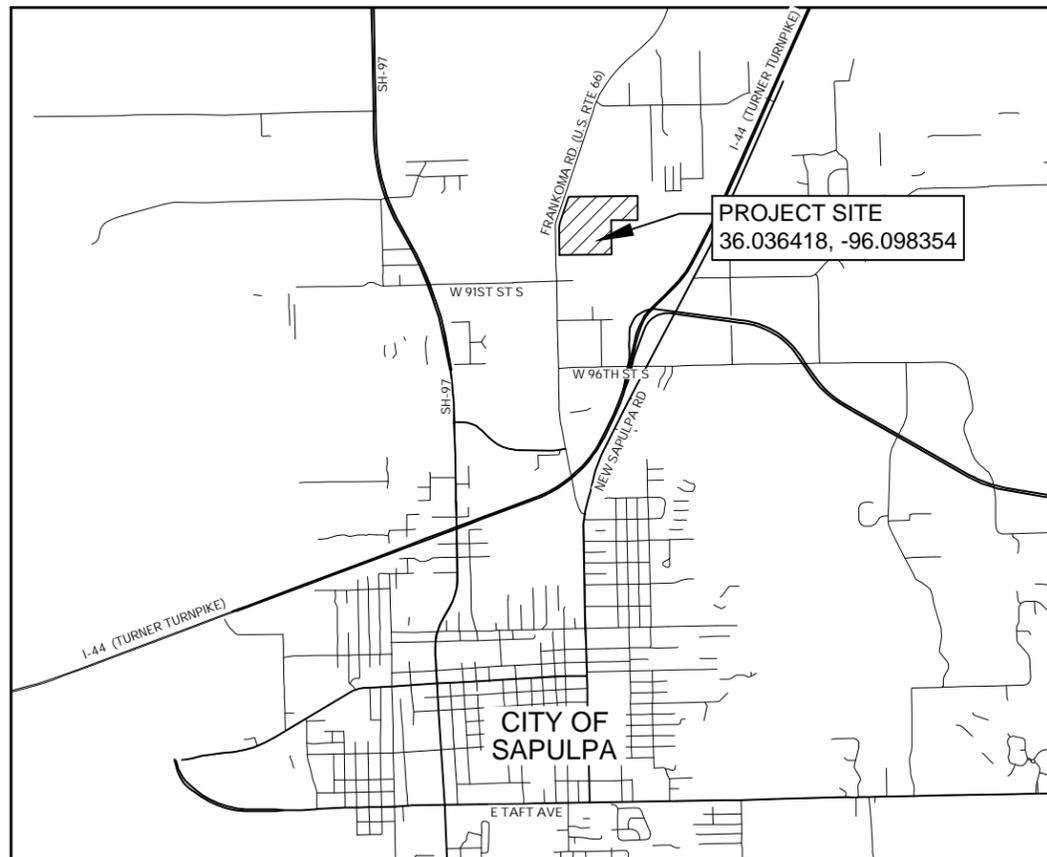
### VOLUME 1 of 4



#### LEGEND

THESE STANDARD SYMBOLS WILL BE FOUND IN THE DRAWINGS

	WATER VALVE		HANDI-CAP RAMP
	WATER CONTROL VALVE		RETAINING WALL
	WATER MANHOLE		LANDSCAPE HATCH
	FIRE HYDRANT		BUILDING
	SHRUB		ASPHALT / PAVEMENT
	DECIDUOUS TREE		CONCRETE
	VEGETATIVE TREE		GRAVEL
	POWER POLE		DIRT
	GUY WIRE		UNDERGROUND PETROLEUM LINE
	TELEPHONE UNDERGROUND MARKER		UNDERGROUND TELEPHONE
	TELEPHONE PEDESTAL		UNDERGROUND FORCE MAIN
	TELEPHONE MANHOLE		UNDERGROUND SANITARY SEWER
	SIGN		UNDERGROUND GAS
	60D SPIKE		UNDERGROUND CABLE
	MAIL BOX		UNDERGROUND WATER
	GAS METER		UNDERGROUND STORM SEWER
	FIBER OPTIC PEDESTAL		OVERHEAD ELECTRIC
	TRAFFIC SIGNAL POLE		FENCE
	ELECTRIC METER		CENTER LINE OF ROAD or CRL
	LIGHT POLE		PROPERTY LINE
	TRAFFIC JUNCTION BOX		SECTION LINE
	FLOOD LIGHT		1/4 SECTION LINE
	CABLE TV UNDERGROUND MARKER		PROPOSED RIGHT OF WAY
	CABLE TV PEDESTAL		EX. RIGHT OF WAY
	ELECTRIC OUTLET		UTILITY EASMENT
	BOLLARDS		
	SANITARY SEWER MANHOLE		
	GAS VALVE		
	STORM SEWER MANHOLE		
	FOUND MONUMENTS		
	UTILITY MARKER		
	VENT		
	FIBER OPTICS		



LOCATION MAP

SCALE: NTS

#### GOVERNMENT SPECIFICATIONS:

- 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH GOVERN.
- CITY OF SAPULPA ENGINEERING DESIGN CRITERIA AND STANDARD SPECIFICATIONS, MARCH 18, 2018



## BID PLANS

JANUARY 9, 2026

INDEX OF DRAWINGS - VOLUME 1  
PHASE 1 & 2 - THIS PLAN SET, SEE SHT 02

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SEPARATE PLAN SET

FRONT DOCUMENTS AND TECHNICAL  
SPECIFICATIONS - VOLUME 3 - PHASES 1, 2,  
& 3 SEPARATE DOCUMENT

PROJECT STANDARDS - VOLUME 4  
PHASES 1, 2, & 3  
SEPARATE DOCUMENT PACKAGE

WE HEREBY CERTIFY THAT THE ACCEPTED DRAINAGE PLAN WILL BE IMPLEMENTED AS DESIGNED AND "AS-BUILT" DRAWINGS PREPARED OF THE COMPLETED DRAINAGE FACILITIES UNDER THE GENERAL SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF OKLAHOMA. WE FURTHER CERTIFY THAT WE ARE AWARE OF OUR RESPONSIBILITIES AS THE OWNER OF RECORD FOR THIS PIECE OF PROPERTY, AND THAT WE MAY BE HELD CORPORATELY LIABLE FOR ANY VIOLATIONS ON THIS PROPERTY RESULTING FROM THE FAILURE TO COMPLY WITH THE PROVISIONS OF THE ADOPTED ORDINANCES AND REGULATIONS OF THE CITY OF SAPULPA GOVERNING DRAINAGE FACILITIES. SAID PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, RESPONSIBILITIES FOR PROPER CONSTRUCTION, CONSTRUCTION PROCEDURES AND MAINTENANCE OF THE DRAINAGE FACILITIES UPON COMPLETION.

CITY OF SAPULPA IN JOINT VENTURE WITH ADAPTED LAND MANAGEMENT, LLC

I HEREBY CERTIFY THAT I AM FAMILIAR WITH THE ADOPTED ORDINANCES AND REGULATION OF THE CITY OF SAPULPA GOVERNING DRAINAGE FACILITIES; THAT THE FINAL DRAINAGE PLAN HAS BEEN PREPARED UNDER MY DIRECT ENGINEERING SUPERVISION; AND THAT THE ABOVE AND FOREGOING FINAL DRAINAGE PLANS COMPLY WITH ALL GOVERNING ORDINANCES AND THE ADOPTED DRAINAGE STANDARDS OF THE CITY OF SAPULPA PERTAINING TO DRAINAGE FACILITIES TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

#### PLANS PREPARED BY:

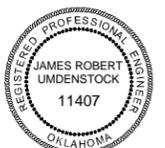
KEITHLINE ENGINEERING GROUP, PLLC   
8556 East 101st Street, Suite C  
Tulsa, OK 74133  
(918) 520-0069

CERTIFICATE OF AUTHORIZATION NO. 5736  
RENEWAL DATE - June 30, 2027

Daniel A. Keithline, P.E. DATE: 01/09/2026  
OKLA. REG. P.E. No. 17348



James R. Umdenstock, P.E. DATE: 01/09/2026  
OKLA. REG. P.E. No. 11407



UTILITY COORDINATION		
UTILITY	CONTACT	PHONE No.
SBC	Brian Smither	(918) 596-4283
Public Service Co. of Oklahoma	Bob Pierce	(918) 599-2257
OG+E	Tim Dobrinski	(918) 227-6203
Oklahoma Natural Gas - Tulsa	Bill Morean	(918) 732-8462
ONG/Gas Transmission	Bill Morean	(918) 732-8462
Cox Communications	Ms. Michael Garrison	(918) 628-3633
AT&T Communication	P. J. McDermott	(816) 391-5077
TMUA Water	Cheryl Wilson	(918) 596-9566
Sapulpa - Water	Robert Pettitt	(918) 224-5006
BNSF Railroads	Michael Messer, Roadmaster	(817) 352-2548
Sunco Logistics	Juan Vasquez	(218) 299-2553
Magellan	Alan Cates	(918) 630-2376

Note: Names and Numbers could Change.

1/9/2026 10:08:33 AM

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100	X08	PHASE 1 - CROSS SECTION
101	X09	PHASE 1 - CROSS SECTION
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ODOT STANDARD DETAIL SHEETS

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TESCA-0	(R-2) TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS	TCS2-1-00	TRAFFIC CONTROL TABLES AND NOTES
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CWA-0	(R-13) CONCRETE WASHOUT APPLICATIONS		
SSS-2-1	(R-14) SOLID SLAB SODDING		
ASCD-6-1	(R-15) ASPHALT SURFACING CONSTRUCTION DETAILS		
CSCD-6-3	(R-16) CONCRETE SURFACING CONSTRUCTION DETAILS		
PCES-5-2	(R-34) PREFABRICATED CULVERT END SECTIONS		
CDIP-2-3	(R-38) CAST-IN-PLACE CONCRETE DROP INLET (18- 72 IN. RC PIPES)		
GPI-5-3	(R-40) CAST-IN-PLACE GRATED PIPE DROP INLET (18- 42 IN.)		
SSCD-4-2	(R-41) STORM SEWER CONSTRUCTION DETAILS		
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CI-2-3	(R-45) CAST-IN-PLACE CURB INLETS		
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MFC-5-2	(R-48) MANHOLE FRAME AND COVER		
MJB-4-2	(R-49) CAST-IN-PLACE MANHOLES AND JUNCTION BOXES		
PRM-1-3	(R-50) PRECAST ROUND MANHOLE		
PSM-1-3	(R-51) PRECAST SQUARE MANHOLE		
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ODOT BRIDGE STANDARD DETAIL SHEETS

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RCB-C2-6(2-12)	(B-531E) RCB CULVERTS - BARREL DETAILS DOUBLE
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Plans and Estimates Prepared by: KEITHLINE ENGINEERING GROUP



ROUTE 66 INDUSTRIAL PARK PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY SAPULPA, OKLAHOMA

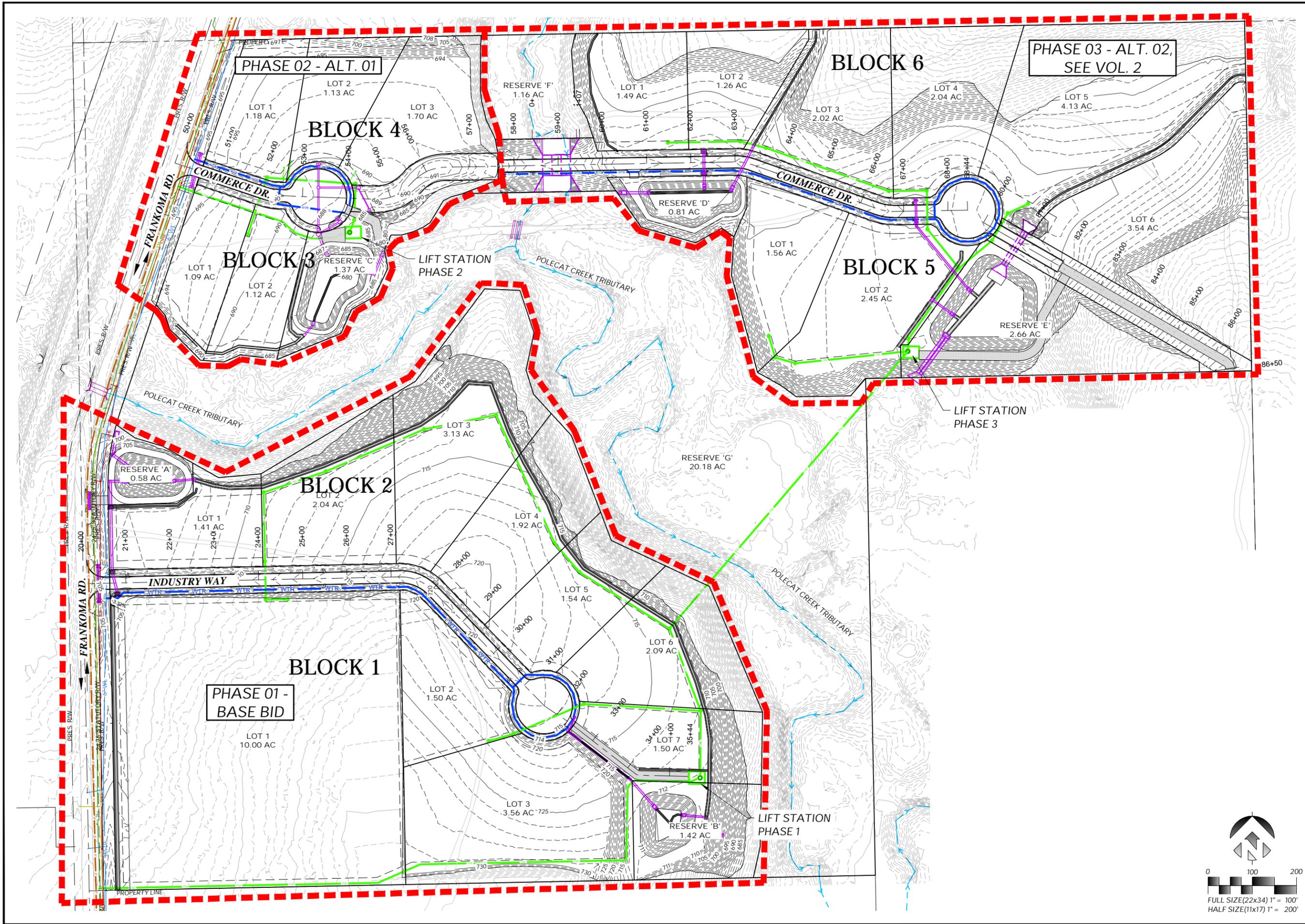
INDEX OF SHEETS & STANDARDS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026

SHEET: 02 OF 107

DRAWING: G02

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Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	

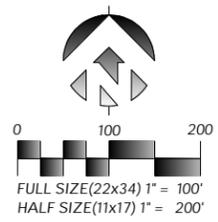


**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

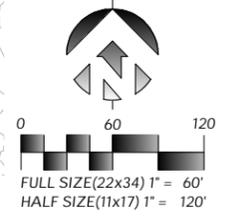
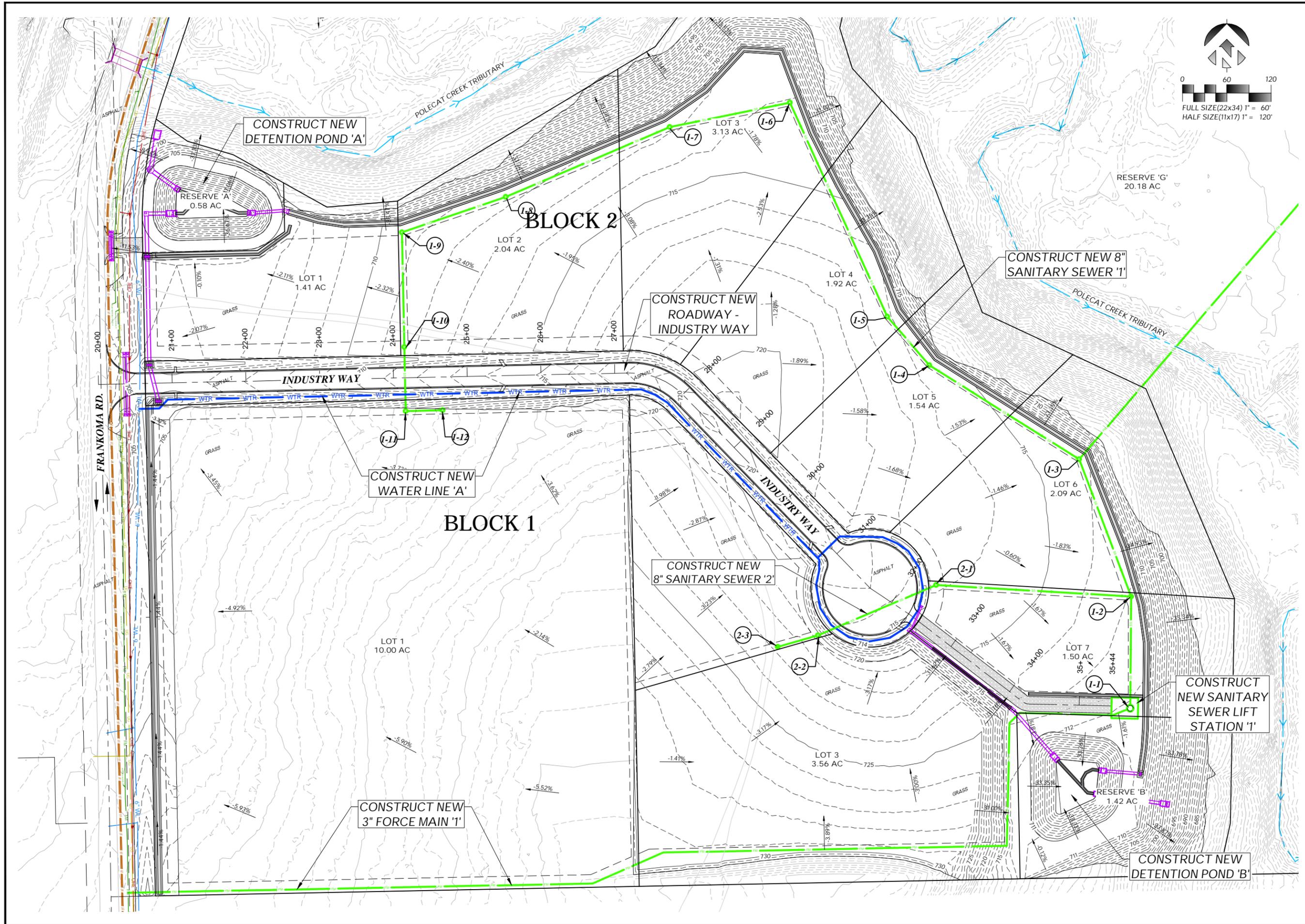
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PROJECT OVERVIEW  
(ALL PHASES)**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
DATE	JANUARY 9, 2026
SHEET:	03 OF 107
DRAWING:	G03



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Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP	DATE
8556 E. 101ST ST., STE. C TULSA, OKLAHOMA 74133 (918) 369-7911	BY
REVISION	



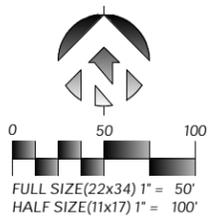
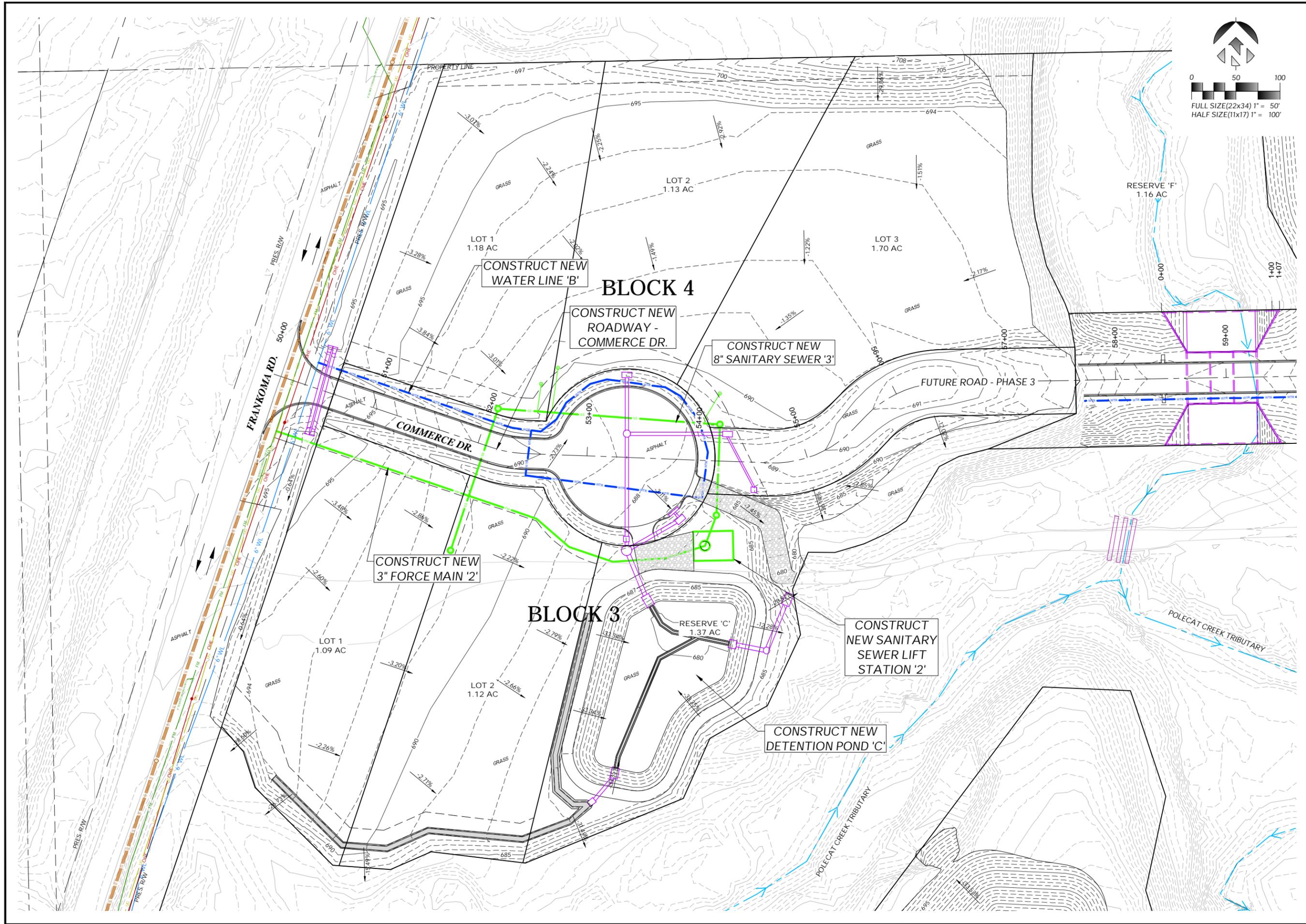
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PROJECT OVERVIEW  
PHASE 1**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
SHEET:	04 OF 107
DRAWING:	G04

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Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PROJECT OVERVIEW  
 PHASE 2**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
SHEET:	05 OF 107
DRAWING:	G05

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ROADWAY PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
1	--	201(A)1200	CLEARING AND GRUBBING		1 LSUM	1.
2	--	202(A)2200	UNCLASSIFIED EXCAVATION (PHASE 1 CUT)	2,3,4	CY	71,741.
3	--	202(D)2500	UNCLASSIFIED BORROW (PHASE 1 FILL)	3	CY	68,602.
4	--	205(A)6210	TYPE A-SALVAGED TOPSOIL		5 LSUM	1.
5	--	220 1100	SWPPP DOCUMENTATION AND MANAGEMENT		6 LSUM	1.
6	--	221(B)2300	TEMPORARY SILT FENCE		8 LF	3,000.
7	--	221(C)2410	REINFORCED SILT FENCE		8 LF	5,000.
8	--	221(F)2700	TEMPORARY ROCK FILTER DAM TYPE 1		8 CY	20.
9	--	221(G)2800	TEMPORARY FIBER LOG		8 LF	3,000.
10	--	230(A)7200	SOLID SLAB SODDING		16 SY	28,851.
11	--	232(A)9200	SEEDING METHOD A		7 AC	13.26
12	--	303(A)1200	AGGREGATE BASE TYPE A	9,10	CY	1,881.
13	--	310(B)5300	SUBGRADE, METHOD B	17,18	SY	5,622.
14	--	325 0100	SEPARATOR FABRIC		19 SY	7,830.
15	--	402(E)2600	TRAFFIC BOUND SURFACE COURSE TYPE E		11 TON	225.
16	--	407(B)7300	TACK COAT		13 GAL	556.
17	--	408 8100	PRIME COAT		12 GAL	1,156.
18	--	411(B)1330	SUPERPAVE, TYPE S3(PG 64-22 OK)		14 TON	1,553.
19	--	411(C)1430	SUPERPAVE, TYPE S4(PG 64-22 OK)		14 TON	517.
20	--	509(D)0500	CLASS C CONCRETE (CURB OPENINGS & PAVED DITCH)	20,21,22,24	CY	312.
21	--	511(A)2210	REINFORCING STEEL		-- LB	7,132.
22	--	601(A)1100	TYPE I PLAIN RIPRAP		-- TON	50.
23	--	609(B)4360	1'-8" COMB. CRB. & GUT. (6" BARRIER)	22,23,25,26	LF	2,540.
24	--	610(B)5310	6" CONCRETE DRIVEWAY	22,23,25,26	SY	41.
25	--	855(A)7201	(SP) TRAFFIC STRIPE(PLASTIC)(4" WIDE)		-- LF	120.
26	--	855(A)7217	(SP) TRAFFIC STRIPE(PLASTIC)(24" WIDE)		-- LF	14.

STORM SEWER PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
27	--	509(C)0400	CLASS A CONCRETE, SMALL STRUCTURES		15 CY	71.
28	--	611(A)7277	PRECAST CONC SQ 6' WIDE MANHOLE		30 EA	1.
29	--	611(B)7282	ADD'L DEPTH PRECAST SQ 6' MANHOLE		31 VF	5.27
30	--	611(L)1600	JUNCTION BOXES		0 CF	221.
31	--	613(A)5208	18" R.C. PIPE CLASS III	32,33	LF	29.22
32	--	613(A)5224	36" R.C. PIPE CLASS III	32,33	LF	85.9
33	--	613(A)5228	42" R.C. PIPE CLASS III	32,33	LF	336.
34	--	613(A)5232	48" R.C. PIPE CLASS III	32,33	LF	269.85
35	--	613(A)5236	54" R.C. PIPE CLASS III	32,33	LF	76.38
36	--	613(A)5400	14" X 23" R.C. PIPE ELL. CLASS HE-III	32,33	LF	56.76
37	--	613(A)5404	19" X 30" R.C. PIPE ELL. CLASS HE-III	32,33	LF	148.42
38	--	613(L)6708	18" PREFAB. CULVERT END SEC., ROUND	32,33	EA	1.
39	--	613(L)6800	14" X 23" PREFAB. CULVERT END SEC., ELLI	32,33	EA	4.
40	--	613(L)6804	19" X 30" PREFAB. CULVERT END SEC., ELLI	32,33	EA	4.
41	--	613(S)7700	STANDARD BEDDING MATERIAL, CLASS B		-- CY	385.
42	--	613(V)8000	TRENCH EXCAVATION		-- CY	2,203.

WATERLINE PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
43	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED		W1 CY	800.
44	2304	--	12" DUCTILE IRON PIPE RESTRAINED JOINT	W2,W3,W4,W9	LF	487.
45	2306	--	12" POLYVINYL CHLORIDE (PVC) PIPE	W2,W3,W4,W6,W9	LF	702.
46	2306	--	12" POLYVINYL CHLORIDE (PVC) PIPE, RESTRAINED	W2,W3,W4,W6,W9	LF	322.
47	2314	--	6" GATE VALVE		W5 EA	3.
48	2314	--	12" GATE VALVE		W5 EA	5.
49	2314	--	2" COMBO AIR RELEASE VALVE W/ CAN & LID	W3,W5	EA	1.
50	2315	--	STANDARD VALVE BOX	W8	EA	8.
51	2315	--	VALVE BOX EXTENSION	W8	EA	8.
52	2309	--	12" X 6" REDUCER (RJ)	W3,W5	EA	2.
53	2314	--	FIRE HYDRANT AND ASSEMBLY	W3,W5	EA	3.
54	2309	--	12" X 12" X 6" TEE (RJ)	W3,W5	EA	3.
55	2309	--	12" X 12" X 12" TEE (RJ)	W3,W5	EA	2.
56	2309	--	12" 11 1/4 DEGREE FITTING (RJ)	W3,W5	EA	4.
57	2309	--	12" 22 1/2 DEGREE FITTING (RJ)	W3,W5	EA	13.
58	2309	--	12" 45 DEGREE FITTING (RJ)	W3,W5	EA	4.
59	1107	--	HYDROSTATIC PRESSURE TESTING & DISINFECT	W9	LSUM	1.

LIFT STATION ITEMS FURNISHED BY CITY OF SAPULPA. RECEIVED AND INSTALLED THIS CONTRACT

SANITARY SEWER PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
60	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED		S3 CY	2,771.
61	2311	--	PRECAST ROUND 4' DIA MANHOLE		S6 EA	14.
62	2311	--	ADD'L DEPTH PRECAST ROUND 4' MANHOLE		S5 VF	84.65
63	2310	--	8" PVC SDR 35		S4 LF	2,078.
64	2304	--	8" DUCTILE IRON PIPE		S4 LF	261.
65	2312	--	IN-LINE TEE & RISER FOR FUTURE CONNECTION (8"x8"x6" TEE)		S2 EA	--
66	2310	--	MANHOLE VACUUM TEST		S1 LSUM	1.
67	2310	--	SEWER PIPE MANDREL TEST		-- LSUM	1.

LIFT STATION & FORCE MAIN PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
68	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED		S3 CY	461.
69	2304	--	3" DUCTILE IRON PIPE, RESTRAINED		S4 LF	177.
70	2304	--	6" DUCTILE IRON PIPE, RESTRAINED		S4 LF	2.
71	2310	--	3" POLYVINYL CHLORIDE (PVC) PIPE (CLASS 200 SDR21)		S4 LF	1,360.
72	2314	--	3" CHECK VALVE		-- EA	1.
73	2314	--	6" CHECK VALVE		-- EA	1.
74	2314	--	3" RESILIENT WEDGE GATE VALVE		-- EA	1.
75	2314	--	2" COMBO AIR RELEASE VALVE W/ CAN & LID		-- EA	1.
76	2315	--	STANDARD VALVE BOX		-- EA	3.
77	2315	--	VALVE BOX EXTENSION		-- EA	3.
78	2309	--	6" SOLID SLEEVE		-- EA	2.
79	2309	--	6" SPOOL		-- EA	1.
80	2309	--	3" 90 DEGREE FITTING		-- EA	1.
81	2309	--	3" 45 DEGREE BEND		-- EA	3.
82	2309	--	3" 22 1/2 DEGREE BEND		-- EA	3.
83	2309	--	3" 11.25 DEGREE BEND		-- EA	3.
84	2309	--	6" X 6" X 3" WYE TEE		-- EA	1.
85	1107	--	FORCEMAIN HYDROSTATIC PRESSURE TEST		-- LSUM	1.
86	--	624(E)3641	FENCE-STYLE CLF (8'HIGH, CLASS B)		-- LF	76.
87	--	624(F)3778	GATES-STYLE CLF (8'HIGH X 8'LONG)		-- EA	2.
88	--	SPEC	DUPLEX PACKAGE LIFT STATION, COMPLETE IN PLACE		-- LSUM	1.
89	--	SPEC	ON-SITE ELECTRICAL AND COMMUNICATIONS INSTALLATION		-- LSUM	1.
90	--	SPEC	WET-WELL, COMPLETE IN PLACE		-- LSUM	1.
91	--	SPEC	DIESEL GENERATOR, FUEL TANK, ENCLOSURE AND CONC. PAD		-- LSUM	1.
92	--	SPEC	SCADA ANTENNA		-- LSUM	1.
93	--	SPEC	INSTALL CONCRETE WET WELL INTERIOR EPOXY COATING		-- LSUM	1.

CONSTRUCTION PAY QUANTITIES PHASE 1 (BASE BID)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
94	--	641 2110	MOBILIZATION		27 LSUM	1.
95	--	642(B)3300	CONSTRUCTION STAKING LEVEL II		28,29 LSUM	1.
96	--	880(J)7110	CONSTRUCTION TRAFFIC CONTROL		34 LSUM	1.

PHASE 1 ADDITIVE ALTERNATE 3 CONCRETE PAVEMENT INSTEAD OF ASPHALT PAVEMENT				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
281	--	414(B)5300	DOWEL JOINTED P.C.C.PAVT.(PLACEMENT)		35 SY	5,094.
282	--	414(G)5800	P.C. CONCRETE FOR PAVEMENT		35 CY	1,138.
283	--	609(A)4230	CONC.CURB(6" BARRIER-INTEGRAL)		35 LF	2,540.
284	--	--	DEDUCT 3" OF AGGREGATE BASE TYPE A		-- CY	-618.
285	--	--	DEDUCT ALL TACK COAT		-- TON	-556.
286	--	--	DEDUCT ALL PRIME COAT		-- TON	-1,156.
287	--	--	DEDUCT ALL SUPERPAVE, TYPE S3(PG 64-22 OK)		-- TON	-1,553.
288	--	--	DEDUCT ALL SUPERPAVE, TYPE S4(PG 64-22 OK)		-- TON	-517.
289	--	--	DEDUCT ALL 1'-8" COMB CURB & GUTTER		-- LF	-2,540.

PHASE 1 ADDITIVE ALTERNATE 4 ELIMINATE PERIMETER DITCH				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
290	--	--	DEDUCT ALL PERIMETER PAVED DITCHES		-- CY	-276.



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8554 E. 101ST ST., STE C, Tulsa, Oklahoma 74133 (918) 369-7911  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

PHASE 1 (BASE BID)  
PAY QUANTITIES

PROJECT # 24.11  
 SURVEY AJN (FLS) 12/2024  
 DESIGNED DAK, JRJ, MAW (KEG)  
 DRAWN ZLM, AK, MAW (KEG)  
 ATLAS PAGE NO. --  
 DATE: JANUARY 9, 2026  
**SHEET: 06 OF 107**  
 DRAWING: G06

1/9/2026 10:09:08 AM

ROADWAY PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
97	--	201(A)1200	CLEARING AND GRUBBING		1 LSUM	1.
98	--	202(A)2200	UNCLASSIFIED EXCAVATION (PHASE 2 CUT)	2,3,4	CY	25,999.
99	--	202(D)2500	UNCLASSIFIED BORROW (PHASE 2 FILL)		3 CY	25,680.
100	--	205(A)6210	TYPE A-SALVAGED TOPSOIL		5 LSUM	1.
101	--	220 1100	SWPPP DOCUMENTATION AND MANAGEMENT		6 LSUM	1.
102	--	221(B)2300	TEMPORARY SILT FENCE		8 LF	1,500.
103	--	221(C)2410	REINFORCED SILT FENCE		8 LF	2,200.
104	--	221(F)2700	TEMPORARY ROCK FILTER DAM TYPE 1		8 CY	20.
105	--	221(G)2800	TEMPORARY FIBER LOG		8 LF	3,000.
106	--	230(A)7200	SOLID SLAB SODDING		16 SY	14,409.
107	--	232(A)9200	SEEDING METHOD A		7 AC	5.5
108	--	303(A)1200	AGGREGATE BASE TYPE A	9,10	CY	893.
109	--	310(B)5300	SUBGRADE, METHOD B	17,18	SY	2,651.
110	--	325 0100	SEPARATOR FABRIC		19 SY	3,650.
111	--	402(E)2600	TRAFFIC BOUND SURFACE COURSE TYPE E		11 TON	131.
112	--	407(B)7300	TACK COAT		13 GAL	268.
113	--	408 8100	PRIME COAT		12 GAL	557.
114	--	411(B)1330	SUPERPAVE, TYPE S3(PG 64-22 OK)		14 TON	749.
115	--	411(C)1430	SUPERPAVE, TYPE S4(PG 64-22 OK)		14 TON	250.
116	--	509(D)0500	CLASS C CONCRETE (PAVED DITCH)	20,21,22,24	CY	67.
117	--	511(A)2210	REINFORCING STEEL		-- LB	3,047.
118	--	601(A)1100	TYPE I PLAIN RIPRAP		-- TON	50.
119	--	609(B)4360	1'-8" COMB.CRB.& GUT.(6" BARRIER)	22,23,25,26	LF	862.
120	--	610(B)5310	6" CONCRETE DRIVEWAY	22,23,25,26	SY	56.
121	--	855(A)7201	(SP) TRAFFIC STRIPE(PLASTIC)(4" WIDE)		-- LF	296.
122	--	855(A)7217	(SP) TRAFFIC STRIPE(PLASTIC)(24" WIDE)		-- LF	13.

STORM SEWER PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
123	--	509(C)0400	CLASS A CONCRETE, SMALL STRUCTURES		15 CY	39.
124	--	611(A)7257	PRECAST CONC RND 5' DIA MANHOLE		30 EA	1.
125	--	611(A)7262	PRECAST CONC RND 6' DIA MANHOLE		30 EA	1.
126	--	611(B)7247	ADD'L DEPTH PRECAST RND 5' MANHOLE		31 VF	1.7
127	--	611(B)7252	ADD'L DEPTH PRECAST RND 6' MANHOLE		31 VF	0.86
128	--	611(G)7896	PRECAST INLET CI DES. 3 (STD)		-- EA	1.
129	--	611(H)0438	ADD'L DEPTH IN PRECAST INLET CI DES. 3		-- VF	1.42
130	--	611(L)1600	JUNCTION BOXES	32,33	CF	125.
131	--	613(A)5208	18" R.C.PIPE CLASS III	32,33	LF	59.37
132	--	613(A)5220	30" R.C.PIPE CLASS III	32,33	LF	306.78
133	--	613(A)5224	36" R.C. PIPE CLASS III	32,33	LF	110.43
134	--	613(A)5404	19" X 30" R.C.PIPE ELL. CLASS HE-III	32,33	LF	98.28
135	--	613(L)6804	19" X 30" PREFAB. CULVERT END SEC., ELLI	32,33	EA	4.
136	--	613(S)7700	STANDARD BEDDING MATERIAL, CLASS B		-- CY	165.
137	--	613(V)8000	TRENCH EXCAVATION		-- CY	934.

WATERLINE PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
138	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED	W1	CY	344.
139	2304	--	12" DUCTILE IRON PIPE RESTRAINED JOINT	W2,W3,W4,W9	LF	495.
140	2306	--	12" POLYVINYL CHLORIDE (PVC) PIPE	W2,W3,W4,W6,W9	LF	120.
141	2306	--	12" POLYVINYL CHLORIDE (PVC) PIPE, RESTRAINED	W2,W3,W4,W6,W9	LF	45.
142	2314	--	6" GATE VALVE	W5	EA	1.
143	2314	--	12" GATE VALVE	W5	EA	3.
144	2315	--	STANDARD VALVE BOX	W8	EA	4.
145	2315	--	VALVE BOX EXTENSION	W8	EA	4.
146	--	--	6" SOLID SLEEVE	--	EA	2.
147	2309	--	12" X 6" REDUCER	W3,W5	EA	2.
148	2314	--	FIRE HYDRANT AND ASSEMBLY	W3,W5	EA	1.
149	2309	--	12" X 12" X 6" TEE	W3,W5	EA	1.
150	2309	--	12" X 12" X 12" TEE	W3,W5	EA	3.
151	2309	--	12" 11 1/4 DEGREE FITTING	W3,W5	EA	1.
152	2309	--	12" 22 1/2 DEGREE FITTING	W3,W5	EA	10.
153	2309	--	12" 45 DEGREE FITTING	W3,W5	EA	7.
154	2309	--	12" 90 DEGREE FITTING	W3,W5	EA	1.
155	1107	--	HYDROSTATIC PRESSURE TESTING & DISINFECT	W9	LSUM	1.

LIFT STATION ITEMS FURNISHED BY CITY OF SAPULPA. RECEIVED AND INSTALLED THIS CONTRACT

SANITARY SEWER PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
156	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED		S3 CY	565.
157	2311	--	PRECAST ROUND 4' DIA MANHOLE		S6 EA	4.
158	2311	--	ADD'L DEPTH PRECAST ROUND 4' MANHOLE		S5 VF	19.07
159	2304	--	8" DUCTILE IRON PIPE		S4 LF	447.
160	2312	--	IN-LINE TEE FOR FUTURE CONNECTION (8"x8"x6" TEE)		S2,S7 EA	3.
161	2310	--	MANHOLE VACUUM TEST		S1 LSUM	1.
162	2310	--	SEWER PIPE MANDREL TEST		-- LSUM	1.

LIFT STATION & FORCE MAIN PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
163	2301	--	EXCAVATION AND BACKFILL, UNCLASSIFIED		-- CY	124.
164	2304	--	3" DUCTILE IRON PIPE, RESTRAINED		-- LF	4.
165	2304	--	6" DUCTILE IRON PIPE, RESTRAINED		-- LF	2.
166	2310	--	3" POLYVINYL CHLORIDE (PVC) PIPE (CLASS 200 SDR21)		-- LF	411.
167	2314	--	3" CHECK VALVE		-- EA	1.
168	2314	--	6" CHECK VLAVE		-- EA	1.
169	2314	--	3" RESILIENT WEDGE GATE VALVE		-- EA	1.
170	2314	--	2" COMBO AIR RELEASE VALVE W/ CAN & LID		-- EA	1.
171	2315	--	STANDARD VALVE BOX		-- EA	3.
172	2315	--	VALVE BOX EXTENSION		-- EA	3.
173	2309	--	6" SOLID SLEEVE		-- EA	2.
174	2309	--	6" SPOOL		-- EA	1.
175	2309	--	3" 45 DEGREE BEND		-- EA	5.
176	2309	--	3" 22 1/2 DEGREE BEND		-- EA	2.
177	2309	--	3" 11.25 DEGREE BEND		-- EA	2.
178	2309	--	6" X 6" X 3" WYE TEE		-- EA	1.
179	1107	--	FORCEMAIN HYDROSTATIC PRESSURE TEST		-- LSUM	1.
180	--	624(E)3641	FENCE-STYLE CLF (8'HIGH, CLASS B)		-- LF	76.
181	--	624(F)3778	GATES-STYLE CLF (8'HIGH X 8'LONG)		-- EA	2.
182	--	SPEC	DUPLEX PACKAGE LIFT STATION, COMPLETE IN PLACE		-- LSUM	1.
183	--	SPEC	ON-SITE ELECTRICAL AND COMMUNICATIONS INSTALLATION		-- LSUM	1.
184	--	SPEC	WET-WELL, COMPLETE IN PLACE		-- LSUM	1.
185	--	SPEC	DIESEL GENERATOR, FUEL TANK, ENCLOSURE AND CONC. PAD		-- LSUM	1.
186	--	SPEC	SCADA ANTENNA		-- LSUM	1.
187	--	SPEC	INSTALL CONCRETE WET WELL INTERIOR EPOXY COATING		-- LSUM	1.

CONSTRUCTION PAY QUANTITIES PHASE 2 (ADD ALT 1)				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
188	--	641 2110	MOBILIZATION		27 LSUM	1.
189	--	642(B)3300	CONSTRUCTION STAKING LEVEL II		28,29 LSUM	1.
190	--	880(J)7110	CONSTRUCTION TRAFFIC CONTROL		34 LSUM	1.

PHASE 2 ADDITIVE ALTERNATE 5 CONCRETE PAVEMENT INSTEAD OF ASPHALT PAVEMENT				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
291	--	414(B)5300	DOWEL JOINTED P.C.C.PAVT.(PLACEMENT)		35 SY	2,389.
292	--	414(G)5800	P.C. CONCRETE FOR PAVEMENT		35 CY	533.
293	--	609(A)4230	CONC.CURB(6" BARRIER-INTEGRAL)		35 LF	862.
294	--	--	DEDUCT 3" OF AGGREGATE BASE TYPE A		-- CY	-292.
295	--	--	DEDUCT ALL TACK COAT		-- TON	-268.
296	--	--	DEDUCT ALL PRIME COAT		-- TON	-557.
297	--	--	DEDUCT ALL SUPERPAVE, TYPE S3(PG 64-22 OK)		-- TON	-749.
298	--	--	DEDUCT ALL SUPERPAVE, TYPE S4(PG 64-22 OK)		-- TON	-250.
299	--	--	DEDUCT ALL 1'-8" COMB CURB & GUTTER		-- LF	-862.

PHASE 2 ADDITIVE ALTERNATE 6 ELIMINATE PERIMETER DITCH				ESTIMATED QUANTITIES CONTRACTOR TO VERIFY		
ITEM NO.	SAPULPA SPEC. NO.	ODOT SPEC. NO.	DESCRIPTION	PAY NOTES	UNIT	QTY
300	--	--	DEDUCT ALL PERIMETER PAVED DITCHES		-- CY	-51.



Plans and Estimates Prepared by: KEITHLINE ENGINEERING GROUP  
8554 E. 101ST ST., STE C, Tulsa, Oklahoma 74133 (918) 369-7971



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
PAY QUANTITIES

PROJECT # 24.11  
SURVEY AJN (FLS) 12/2024  
DESIGNED DAK, JRJ, MAW (KEG)  
DRAWN ZLM, AK, MAW (KEG)

ATLAS PAGE NO. --  
DATE: JANUARY 9, 2026

SHEET: 07 OF 107

DRAWING: G07

**ROADWAY & STORM SEWER PAY NOTES**

1. INCLUDES THE COST OF CLEARING, GRUBBING, REMOVING, AND DISPOSING OF VEGETATION AND DEBRIS WITHIN THE GRADING LIMITS. 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.
2. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BE STOCKPILED ONSITE WITH THE APPROPRIATE EROSION CONTROL MEASURES. FINAL STOCKPILE LOCATION OF THE STOCKPILE SHALL BE DETERMINED BY THE OWNER.
3. ESTIMATED QUANTITY CALCULATED BY TAKING THE DIFFERENCE BETWEEN EXISTING GROUND AND FINAL GRADE OR TOP OF SUBGRADE. ESTIMATED QUANTITY ONLY. TO BE USED IN A MANNER APPROVED BY THE ENGINEER, FOR MISCELLANEOUS GRADING.
4. THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL EXCAVATION REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY, IN ADVANCE, TO VERIFY ANY ADDITIONAL QUANTITIES.
5. AN ESTIMATED QUANTITY OF 10,600 C.Y. TOPSOIL IN PHASE 1 AND 4,520 C.Y. IN PHASE 2 TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 4" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM.
7. PRICE BID TO INCLUDE COST OF (0-46-0) FERTILIZER, ESTIMATED AT 150 POUNDS PER 1,000 SY.
8. PRICE BID TO INCLUDE COST OF ALL NECESSARY MAINTENANCE, MAINTAINING DEVICE IN PROPER UPRIGHT POSITION, REMOVAL OF DEVICE, AND REMOVAL OF SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE DEVICE.
9. PAYMENT FOR THIS ITEM WILL BE THE THEORETICAL CROSS SECTION MULTIPLIED BY THE INSTALLED LENGTH.
10. INCLUDES COMPACTION OF AGGREGATE TO 95% AASHTO T180 STANDARD DENSITY.
11. ESTIMATED AT 125 LBS. PER CU. FT.
12. PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
13. ESTIMATED AT 0.60 GALLONS PER SQUARE YARD OF ORIGINAL EMULSION OF TACK COAT (BEFORE DILUTION FOR APPLICATION) IN ACCORDANCE WITH SECTION 407.04.C. OF THE STANDARD SPECIFICATIONS.
14. ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
15. THE PRECAST CONCRETE OPTION MAY BE USED INSTEAD, PER DIRECTION OF THE ENGINEER.
16. PRICE BID INCLUDES FINE GRADING, FERTILIZER (0-46-0) APPLIED AT 150 LBS / 1,000 S.Y. AND ROLL SOD WITH HEAVY WEIGHT ROLLER.
17. SUBGRADE SOILS SHALL BE COMPACTED AS SPECIFIED IN ODOT STANDARDS SECTION 310.04, METHOD B WITH THE FOLLOWING EXCEPTIONS: SUBGRADE SOILS SHALL BE SCARIFIED TO A DEPTH OF NOT LESS THAN 8", THE MOISTURE CONTENT OF THE SCARIFIED SOIL ADJUSTED TO NOT LESS THAN OPTIMUM AND COMPACTED WITH A RANGE OF 95% TO 98% OF STANDARD DENSITY AS DETERMINED BY AASHTO T-99. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
18. PROOFROLLING OF THE EXPOSED SUBGRADE AND PROPER COMPACTION OF FILL IS REQUIRED TO DETECT AND CORRECT UNSTABLE OR UNDESIRABLE MATERIAL TO CREATE SUPPORT FOR THE PLACED ELEMENTS. INCLUDES COST OF UNDERCUTTING FAILED SUBGRADE AND FILLING WITH ACCEPTABLE STRUCTURAL FILL MATERIAL.
19. MATERIAL SHALL BE MIRAFI HP370 OR APPROVED EQUAL. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE REQUIRED 2-FT LAPPING OF FABRIC JOINTS.
20. INCLUDES COST FOR EXPANSION JOINT, CONSTRUCTION JOINT PER ODOT STD SSCD-4-2.
21. INCLUDES COST FOR SCORED JOINT AT 25' SPACING PER ODOT STD DC-4-2.
22. INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.
23. THIS ITEM SHALL BE MEASURED AS THE ACTUAL AMOUNT OF CURB AND/OR GUTTER INSTALLED. NO PAYMENT WILL BE MADE FOR CURB AND/OR GUTTER THROUGH DRIVEWAYS AND INLETS.
24. THE CURB OPENINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH XX ODOT STANDARD WITH PAVEMENT THICKNESS UNTIL FIRST CURTAIN WALL THEN REDUCED TO 5.25 INCH THICK CLASS A CONCRETE FLUME WITH 4 # 4 REBAR SPACED ACROSS THE WIDTH WITH TRANSVERSE BARS 18-INCHES ON CENTER. CONSTRUCT A 6-INCH CURB AT END TO DISSIPATE STORM WATER DOWN FLUME. THE ENTIRE FLUME UNIT COST FOR DESIGN 1 AND 2 SHALL BE PAID BY THE CUBIC YARD THAT INCLUDES EXCAVATION, GRADING, CONCRETE, TOOLED EDGE, REBAR, CURTAIN WALLS, EROSION CURB, BROOM FINISH, GREEN SAWING, CURING, BACKFILL, BACKER ROD AND SEALANT.
25. CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.
26. INCLUDES COST FOR 3/4" ISOLATION JOINT AT DRAINAGE STRUCTURES, STREET CURB RETURNS, AND AT THOSE LOCATIONS SHOWN ON THE PLANS. INCLUDES BUTT OR SAWED JOINTS SPACED AT 20-FT CENTERS MAX.
27. MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
28. CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.
29. THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.
30. ALL MANHOLES SHALL BE COMPLETE IN PLACE. THIS PAY ITEM INCLUDES FRAME, COVER, CONCRETE AND ALL OTHER INCIDENTALS REQUIRED FOR PLACEMENT.
31. ADDITIONAL DEPTH IN A MANHOLE SHALL BE MEASURED FROM 6FT AS MEASURED FROM THE TOP OF RIM TO THE LOWEST FLOWLINE.
32. STORM SEWER PIPE SHALL BE RCP CLASS III FOR HS-20-44 LOADING IN ACCORDANCE WITH ODOT SPECIFICATIONS, UNLESS NOTED OTHERWISE. THE JOINTS SHALL BE TONGUE AND GROOVE WITH OMNI FLEX GLASKET.
33. NO LIFTING HOLES WILL BE ALLOWED ON REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES. ALL PIPE SHALL BE LIFTED WITH A DOUBLE PIPE SLING.
34. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THIS ITEM SHALL BE PAID PER CALENDAR DAYS FOR ALL NECESSARY TRAFFIC CONTROL.
35. THE UNIT PRICE BID FOR 8-INCH DOWEL JOINTED P.C.C. PAVEMENT SHALL INCLUDE TO FURNISH AND INSTALL PER TYPICAL SECTION 2, COMPLETE. THE CONTRACTOR SHALL FURNISH A PROFILED 8-INCH AGGREGATE BASE PARALLEL TO SURFACE, 8-INCH DOWEL JOINTED 4,000 PSI P.C.C. PAVEMENT WITH PROPER POSITIONED (STD LTU-5) 1-INCH SMOOTH DOWELS TRANSVERSELY, #5 TIE BARS LONGITUDINAL JOINT, GREEN CONCRETE SAW CUT, DIMENSIONAL SAWCUT FOR ODOT BACKER ROD AND SEALED (STD LECS-5). THE USE OF FLY ASH IS ALLOWED. INTEGRAL GUTTER IS CONSTRUCTORS OPTION. NO PAYMENT FOR CURB AND GUTTER THROUGH DRIVEWAYS AND INLETS. INCLUDES ALL COST OF SAW JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL AND DRIVEWAY JOINTS. NO PARTIAL PAYMENT UNTIL PAVEMENT JOINTS ARE SEALED PER ODOT REQUIREMENTS. SURFACE SMOOTHNESS PROFILE SHALL MEET 1/8" PER 10-FOOT STRAIGHT EDGE IN EVERY DIRECTION. IF SURFACE TOLERANCE IS NOT MET, DIAMOND GRIND IS AN ACCEPTABLE CORRECTION. IF MORE THAN 20% OF SURFACE AREA IS REQUIRED TO BE CORRECTED PER 100-FOOT PAVEMENT SECTION, CONCRETE PAVEMENT SECTION SHALL BE REPLACED WITH NEW PAVEMENT. SAW CUT CONCRETE PANELS SHALL NOT EXCEED 15 FEET IN ANY ONE DIRECTION AND 12 FEET THE OTHER WAY.

**SANITARY SEWER & FORCEMAIN PAY NOTES**

- S1 INCLUDES ALL COST TO MANHOLE VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS, SPECIFICATIONS, PART 109 - TESTING AND OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- S2 INCLUDES ALL COST TO INSTALL IN-LINE SERVICE TEE AND SPECIFIED MARKER.
- S3 CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN COST OF PIPE.
- S4 TRACER WIRE AND DETECTABLE MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO MANHOLES ABOVE GROUND LEVEL AS PER CONST. SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC PIPE. CONST. SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC PIPE.
- S5 ADDITIONAL VERTICAL FOOT OF MANHOLE SHALL PAID WHEN MANHOLE IS OVER 6'-0".
- S6 MANHOLE DEPTH IS MEASURED FROM RIM TO THE PIPE FLOWLINE AT MANHOLE CENTER. CONTRACTOR SHALL INSTALL & CONSTRUCT PER CITY OF TULSA STD 358 FOR PRECAST MANHOLES OR APPROVED EQUAL.
- S7 INCLUDES THE COST TO FURNISH AND INSTALL THE SERVICE LATERALS, SERVICE FITTINGS, SERVICE TEE, SERVICE RISER, ETC., PER CITY OF TULSA STANDARD 363.

**WATERLINE PAY NOTES**

- W1 CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1 1/2" IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY. COST TO BE INCLUDED IN THE UNIT PRICE FOR EXCAVATION AND BACKFILL. NO ADDITIONAL PAYMENT SHALL BE MADE.
- W2 TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CONTRACTOR. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH SECTION 109.3 OF THE GENERAL SPECIFICATIONS.
  - A. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PLUGS WITH ADEQUATE BLOCKING OR RESTRAINTS, PLUSRECOR CORPORATION STOPS, AS DIRECTED BY THE CONTRACTOR. THEN, ONCE TESTING, CHLORINATION AND FLUSHING BY CONTRACTOR IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISTING SYSTEM USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION.
  - B. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY THE CONTRACTOR. ON MAINS WHICH ARE PHYSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY CONNECTED TO THE EXISTING SYSTEM.
  - C. ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH, AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- W3 BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED IN UNIT PRICE BID FOR PIPE AND FITTINGS.
- W4 CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- W5 ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR FITTINGS.
  - A. DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK, CLOW TUFGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASSED BORES, ONLY USPIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED.
  - B. POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. LOCKING GASKETS NOT PERMITTED; SHOULD RJ PIPE BE SPECIFIED ON BORE, CASING IS REQUIRED.
  - C. HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT.
- W6 TRACER WIRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HDPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HDPE PIPE.
- W7 ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN THE COST OF PIPE. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SLEEVES. NO ADDITIONAL PAYMENT SHALL BE MADE.
- W8 TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE.
- W9 PRESSURE TESTING AND CHLORINATION OF WATER MAINS BY THE CONTRACTOR SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED THE REQUIRED CONSTRUCTION AS-BUILT RECORDS.



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
		BY	
8554 E. 101ST ST., STE C, Tulsa, Oklahoma 74133 (918) 369-7911		REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PAY QUANTITY NOTES**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
<b>SHEET:</b>	<b>08 OF 107</b>
<b>DRAWING:</b>	<b>G08</b>

1/9/2026 10:09:09 AM

**DESIGN DATA**

1. CONCRETE CLASS 'AA' .....4,000 P.S.I. - STRUCTURES AND APRON
2. CONCRETE CLASS 'A' .....3,000 P.S.I. - CURB AND GUTTER, DRIVES AND FLUMES
3. CONCRETE CLASS 'C' ..... 2,400 P.S.I. - PAVED DITCH & CURB OPENING
4. REINFORCING STEEL .....60,000 P.S.I.

**GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF SAPULPA STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF SAPULPA 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. THE 22" X 34" PLANS ARE CONSIDERED FULL SIZE PLANS.
4. THE CONTRACTOR SHALL HAVE ONE (1) EXECUTED COPY OF THE CONTRACT DOCUMENTS AT THE JOB SITE AT ALL TIMES.
5. THE CONTRACTOR WILL HAVE 210 CALENDAR DAYS TO COMPLETE THE PHASE 1 WORK IN THE PROJECT. THE CONTRACTOR WILL HAVE 60 CALENDAR DAYS TO COMPLETE THE PHASE 2 WORK IN THE PROJECT. LIQUIDATED DAMAGES OF \$1,000.00 PER DAY WILL BE ASSESSED AGAINST THE CONTRACT AMOUNT UNTIL THE WORK IS COMPLETE IF THE PROJECT IS NOT COMPLETED IN THE AGREED TIME.
6. THE CONTRACTOR SHALL EXECUTE THE NOI AND EXECUTE ALL WORK ACCORDINGLY.
7. THE LOCATION OF UTILITY LINES, AS SHOWN ON THESE DRAWINGS, ARE BASED ON ATLAS INFORMATION, UTILITY COMPANY COMMENTS AND OBSERVED FEATURES. NEITHER THE CITY NOR THE ENGINEER ASSUMES OR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. SERVICE LINES FROM THE MAIN UTILITY LINES TO ANY BUILDING OR FACILITY MAY NOT BE SHOWN. CONTRACTOR SHALL OBTAIN THE LOCATION OF THESE FROM THE UTILITY COMPANY AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THESE LINES OR ANY OTHER LINES OR UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
8. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC. A MINIMUM OF TWO (2) WORKING DAYS AND A MAXIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK IN ANY AREA. "CALL OKIE" 1-800-522-6543 OR 811
9. APPLICABLE ODOT STANDARDS ARE LISTED ON TITLE SHEET.
10. AN ENGINEERING SOIL INVESTIGATION WAS PERFORMED ON THIS SITE FOR USE BY ENGINEER ONLY. THE CONTRACTOR SHALL SATISFY HIMSELF OF ALL SITE CONDITIONS.
11. ALL WATER AND SEWER CONNECTION WORK SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF SAPULPA AND ODEQ WATER AND SEWER SPECIFICATIONS. THE APPROPRIATE LICENSED PROFESSIONAL SHALL COMPLETE THE WATER AND SEWER WORK.
12. CONTRACTOR SHALL BRACE UTILITY POLES AND GUY WIRES WITHIN 5 FEET OF ANY EXCAVATION. CONTRACTOR SHALL CONTACT POLE OWNER A MINIMUM OF THREE (3) WEEKS PRIOR TO BRACING AND/OR RELOCATING ANY UTILITY POLES.

**ROADWAY CONSTRUCTION NOTES**

1. PERMANENT PAVEMENT SECTION SLOPE PROTECTION: INSTALL SOLID SLAB SOD ON APPROVED TOP SOIL GRADE AT ALL ROADWAY AND DRIVEWAY FORE SLOPES, DITCH BOTTOMS AND 4 FOOT OF BACK SLOPE PER ODOT SSS-1.
2. PHYSICAL MATERIAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CONTRACTOR.
3. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
4. NO FILL, SPOIL, BEDDING MATERIAL OR EQUIPMENT MAY BE STORED OVERNIGHT WITHIN THE FLOOD PLAIN LIMITS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, PERMITTING, AND EXECUTION OF A STORMWATER POLLUTION PREVENTION PLAN (SWP3). THE CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED O FSWP3 FOR REVIEW AND APPROVAL OF THE PLAN BY FEDERAL, STATE AND LOCAL AUTHORITIES. THIS INCLUDES, BUT IT NOT LIMITED TO, THE NOTICE OF INTENT AND NOTICE OF TERMINATION.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY ORANGE SAFETY FENCING AROUND ALL EXCAVATION, INCLUDING TRENCHES, PITS, VAULTS, ETC. TO MAINTAIN SECURITY AND SAFETY FOR ANIMALS, CHILDREN OR ANY BYSTANDER. THE COST OF ORANGE SAFETY FENCING SHALL BE INCLUDED IN OTHER PAY ITEMS.
7. BACKFILL UNDER ALL PAVED SURFACES SHALL BE TYPE "A" AGGREGATE BASE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED BY A VIBRATORY HAND TAMPER TO 95% OF THE STANDARD PROCTOR DENSITY, AS MEASURED BY THE NUCLEAR DENSITY METHOD.
8. THE CONTRACTOR SHALL PROVIDE A DETAILED ACCESS PLAN FOR THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS, CONSTRUCTION ACTIVITIES AND PERMITS THAT MAY BE NEEDED FOR THE IMPLEMENTATIONS OF THIS PLAN.
9. ALL DAMAGED PAVEMENT SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCREMENT 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 SUB-BASE AT THEIR SOLE EXPENSE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING. NO SEPARATE PAVEMENT WILL BE MADE FOR THIS WORK.
12. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
13. ALL FILL SOIL MATERIAL UTILIZED IN THE PAVEMENT BEDDING SHALL CONSIST OF 'NON-EXPANSIVE CLAYS' STRUCTURAL FILL APPROVED BY TESTING FIRM. FILL MATERIAL SHALL BE INSTALLED IN HORIZONTAL LAYERS AND BENCH INTO THE NATIVE EMBANKMENT.
14. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT 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.
15. 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 AN FEDERAL, STATE OR LOCAL LAW OR REGULATION.
16. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED TO THE ENGINEERS SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTORS SOLE EXPENSE.
17. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL NOTIFY THE ENGINEER FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
18. 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.
19. MASONRY STRUCTURES ARE PROHIBITED.
20. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
21. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.

**TRAFFIC CONSTRUCTION NOTES**

1. THE CONTRACTOR SHALL, IN COOPERATION WITH THE CITY, DEVELOP AND SUBMIT FOR APPROVAL A TRAFFIC CONTROL PLAN (TCP), TO THE CITY OF SAPULPA ENGINEERING DEPARTMENT. THIS TCP SHALL DETAIL SUCH MEASURES AS MAY BE REQUIRED TO ESTABLISH, INSTALL, MAINTAIN AND OPERATE A COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROL SYSTEM DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PLACE TRAFFIC CONTROL FLAGMEN, BARRICADES, SIGNS, SIGNALS OR OTHER DEVICES AS MAY BE REQUIRED.
2. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY A CERTIFIED TRAFFIC CONTROL CONTRACTOR, 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 THE FILE OF THE ENGINEER PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED IN A MANNER SO AS NOT TO DAMAGE THE SIGN AND/OR POST. ALL TRAFFIC SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING OR COVER ALL PERMANENT ROAD SIGNS AFFECTED BY THE CONSTRUCTION OPERATIONS; IN ADDITION, HE SHALL STORAGE AND REINSTALL AT A LATER DATE AFTER PROJECT IS COMPLETE.
5. AT ALL TIMES, LOCAL AND THOUGH TRAFFIC SHALL BE MAINTAINED DURING THE ROADWAY PROJECT UNLESS PERMITTED OTHERWISE.
6. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
7. 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.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A RECORD OF ALL SIGNS AND MARKINGS TO INSURE PROPER REINSTALLATION BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION OF ALL EXISTING TRAFFIC SIGNS AND MARKING REMOVED OR DAMAGED AS PART OF THIS PROJECT. EXISTING SIGNS THAT ARE TO BE REINSTALLED SHOULD BE STORED BY THE CONTRACTOR AND THE CONTRACTOR SHALL USE EXTRAORDINARY CARE TO ENSURE THAT ANY TRAFFIC SIGNS REMOVED ARE NOT DAMAGED. ALL TRAFFIC SIGNS THAT HAVE BEEN REMOVED SHALL BE THOROUGHLY CLEANED PRIOR TO REINSTALLATION BY THE CONTRACTOR. ANY TRAFFICS SIGN THAT HAS BEEN DAMAGED, DEGRADED, OR DESTROYED BY THE CONTRACTOR SHALL BE REPLACED WITH A NEW ONE. ANY UNUSED SIGNS SHALL BE RETURNED BY THE CONTRACTOR TO THE CITY OF SAPULPA.
10. ALL SIGNS REMOVED SHALL BECOME THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL NEATLY STACK SUCH MATERIAL AT A LOCATION ON THE JOB SITE AS DIRECTED BY THE ENGINEER. THE PRICE BID SHALL INCLUDE THE REMOVAL OF ALL FOOTINGS BELOW GROUND LEVEL OR AS DIRECTED BY THE ENGINEER. FOOTINGS TO BECOME THE PROPERTY OF THE CONTRACTOR.
11. ALL PERMANENT PLASTIC PAVEMENT MARKINGS SHALL BE EXTRUDED-APPLIED THERMOPLASTIC. MECHANICALLY APPLIED PREFORMED PLASTIC TAPE ("COLD TAPE") WILL NOT BE ACCEPTED.
12. ROADSIDE HAZARDS SHALL BE COMPLETELY BARRICADED AROUND THEIR PERIMETER FOR SAFETY OF PEDESTRIANS AND VEHICLES. NO BARRICADES SHALL BE PLACED UNTIL ALL ADVANCED SIGNING IS IN PLACE.
13. ALL CHANNELING DEVICES, TYPE III BARRICADES, ETC. SHALL BE WEIGHTED DOWN WITH NON-HAZARDOUS MATERIAL WHEN NECESSARY OR WHEN DIRECTED BY THE CITY OR THE ENGINEER.
14. ALL ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TYPE 'A' WARNING LIGHTS.
15. ALL TYPE III BARRICADES SHALL BE FURNISHED WITH A MINIMUM OF TWO (2) TYPE 'A' WARNING LIGHTS.
16. ALL CHANNELING DEVICES SHALL BE PROVIDED WITH TYPE 'C' WARNING LIGHTS.
17. ALL WORK ADJACENT TO FRANKOMA ROAD SHALL HAVE A TRAFFIC CONTROL PLAN PER MUTCD REQUIREMENTS, LAYOUT BY A CERTIFIED TECHNICIAN, AND SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO ANY WORK ALONG FRANKOMA ROADWAY.

**WATER CONSTRUCTION NOTES**

1. WHERE DESIGNATED, PROPOSED WATER MAIN SHALL CROSS SANITARY OR STORM SEWERS BY CENTERING FULL JOINT OF WATER MAIN PIPE ATOP EXISTING SANITARY OR SEWER MAIN WITH 24 INCH VERTICAL SPACING/CLEARANCE.
2. MINIMUM COVER OVER WATER LINES SHALL BE 3 FEET AND 4 FEET AT INTERSECTIONS, OR AS NOTED ON THE PLANS.
3. THE CITY OF SAPULPA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION.
4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF SAPULPA.
5. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO LATER THAN 48 HOURS OR SOONER THAN 10 DAYS PRIOR TO COMMENCEMENT OF WORK (EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS). PHONE: 1-800-522-6543.
6. CONSTRUCTION FOR ALL ENGINEERING SERVICE FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ).
7. ANY CHANGES FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.



Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C, TULSA, OKLAHOMA 74133 (918) 369-7971	DATE	
	BY	
REVISION		



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

**GENERAL & CONSTRUCTION NOTES**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	09 OF 107
DRAWING:	G09



1/9/2026 10:09:12 AM

SUMMARY OF SANITARY SEWER PIPE (PHASE 1)														
DRAWING NO.	MANHOLE TO MANHOLE		STATIONING				8" PVC		8" DIP	IN-LINE TEE (FUTURE CONNECTION)	BEDDING MATERIAL	EXCAVATION & BACKFILL		
							LF	CY					EA	CY
							EA	CY					EA	CY
S01	1-1	TO	1-2	30+00.00	TO	31+51.34	151.34	--	--	21.4	238.2			
S01	1-2	TO	1-3	31+51.34	TO	33+49.71	198.37	--	--	28.1	312.2			
S01	1-3	TO	1-4	33+49.71	TO	35+89.62	239.91	--	--	33.9	399.9			
S02	1-4	TO	1-5	35+89.62	TO	36+76.41	86.79	--	--	12.3	144.7			
S02	1-5	TO	1-6	36+76.41	TO	39+94.65	318.24	--	--	45.	442.			
S03	1-6	TO	1-7	39+94.65	TO	41+60.84	166.19	--	--	23.5	200.			
S03	1-7	TO	1-8	41+60.84	TO	44+02.34	241.5	--	--	34.2	268.3			
S03	1-8	TO	1-9	44+02.34	TO	45+51.22	148.88	--	--	21.1	137.9			
S04	1-9	TO	1-10	45+51.22	TO	47+06.34	155.12	--	--	21.9	143.6			
S04	1-10	TO	1-11	47+06.34	TO	47+93.08	--	86.74	--	12.3	64.3			
S04	1-11	TO	1-12	47+93.08	TO	48+43.08	50.	--	--	7.1	27.8			
S05	1-2	TO	2-1	60+00.00	TO	62+64.70	264.7	--	--	37.5	220.6			
S05	2-1	TO	2-2	62+64.70	TO	64+38.59	--	173.89	--	24.6	144.9			
S05	2-2	TO	2-3	64+38.59	TO	64+95.59	57.	--	--	8.1	26.4			
TOTALS							2,078.	261.	--	331.	2,771.			

SUMMARY OF SANITARY SEWER MANHOLES (PHASE 1)									
DRAWING NO.	STATION	STR. I.D.	DESCRIPTION	ELEVATION		PRECAST ROUND MANHOLE			
				TOP OF COVER	PIPE FLOWLINE @ MH CENTER	4' DIA MANHOLE	ADDITIONAL DEPTH 4' DIA MANHOLE	TOTAL DEPTH	
				ELEV.	ELEV.	EA	VF	VF	
S01	30+00.00	1-1	PRECAST ROUND 8' DIA WET-WELL	711.87	690.00			21.87	
S01	31+51.34	1-2	PRECAST ROUND 4' DIA MH W/ DROP CONNECTION	712.94	696.51	1.	10.43	16.43	
S01	33+49.71	1-3	PRECAST ROUND 4' DIA MH	714.20	697.30	1.	10.9	16.9	
S02	35+89.62	1-4	PRECAST ROUND 4' DIA MH	715.54	698.26	1.	11.28	17.28	
S02	36+76.41	1-5	PRECAST ROUND 4' DIA MH	716.15	698.61	1.	11.54	17.54	
S03	39+94.65	1-6	PRECAST ROUND 4' DIA MH	714.02	699.88	1.	8.14	14.14	
S03	41+60.84	1-7	PRECAST ROUND 4' DIA MH	712.84	700.54	1.	6.3	12.3	
S03	44+02.34	1-8	PRECAST ROUND 4' DIA MH	711.66	701.51	1.	4.15	10.15	
S04	45+51.22	1-9	PRECAST ROUND 4' DIA MH	710.62	702.11	1.	2.51	8.51	
S04	47+06.34	1-10	PRECAST ROUND 4' DIA MH	711.64	702.73	1.	2.91	8.91	
S04	47+93.08	1-11	PRECAST ROUND 4' DIA MH W/ DROP CONNECTION	714.53	703.07	1.	5.46	11.46	
S04	48+43.08	1-12	PRECAST ROUND 4' DIA MH	716.32	710.32	1.	--	6.	
S05	62+64.70	2-1	PRECAST ROUND 4' DIA MH	716.09	706.41	1.	3.68	9.68	
S05	64+38.59	2-2	PRECAST ROUND 4' DIA MH W/ DROP CONNECTION	720.45	707.10	1.	7.35	13.35	
S05	64+95.59	2-3	PRECAST ROUND 4' DIA MH	722.80	716.80	1.	--	6.	
TOTALS						14.	84.65	168.65	

SUMMARY OF WATERLINE (PHASE 1)																						
DRAWING NO.	ALIGNMENT NAME	STATIONING				FITTINGS						VALVES					PIPE					
						12" x 6" REDUCER, RJ	12"x12"x12" TEE, RJ	12"x12"x6" TEE, RJ	12" 45 DEG. BEND, RJ	12" 22.5 DEG. BEND, RJ	12" 11.25 DEG. BEND, RJ	12" GATE VALVE, RJ	6" GATE VALVE, RJ	2" AIR RELEASE VALVE ASSEMBLY	3-WAY FIRE HYDRANT	VALVE BOX	VALVE BOX EXTENTION	12" PVC	12" PVC RESTRAINED	RESTRAINED 12" DUCTILE IRON	BEDDING MATERIAL	EXCAVATION & BACKFILL
						EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
W01	WL 'A'	10+00.00	TO	11+00.00	2.	1.	--	2.	--	--	2.	--	--	2.	2.	--	120.	--	23.2	66.7		
W01	WL 'A'	11+00.00	TO	12+00.00	--	--	1.	--	--	--	1.	1.	--	1.	2.	2.	28.	--	19.3	55.6		
W01	WL 'A'	12+00.00	TO	13+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	19.3	55.6		
W01	WL 'A'	13+00.00	TO	14+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	19.3	55.6		
W01	WL 'A'	14+00.00	TO	15+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	19.3	55.6		
W02	WL 'A'	15+00.00	TO	16+00.00	--	--	1.	--	--	--	1.	1.	--	1.	2.	2.	60.	40.	--	19.3	55.6	
W02	WL 'A'	16+00.00	TO	17+00.00	--	--	--	--	--	1.	--	--	--	--	--	66.	34.	--	19.3	55.6		
W02	WL 'A'	17+00.00	TO	18+00.00	--	--	--	--	--	2.	--	--	1.	--	--	100.	--	--	19.3	55.6		
W02	WL 'A'	18+00.00	TO	19+00.00	--	--	--	--	--	--	--	--	--	--	100.	--	--	19.3	55.6			
W02	WL 'A'	19+00.00	TO	19+50.00	--	--	--	--	--	--	--	--	--	--	50.	--	--	9.6	27.8			
W03	WL 'A'	19+50.00	TO	20+00.00	--	--	--	--	--	--	--	--	--	--	54.	--	6.	11.6	33.3			
W03	WL 'A'	20+00.00	TO	21+00.00	--	1.	--	1.	2.	1.	1.	--	--	1.	1.	--	100.	19.3	55.6			
W03	WL 'A'	21+00.00	TO	22+00.00	--	--	--	--	3.	--	--	--	--	--	--	--	100.	19.3	55.6			
W03	WL 'A'	22+00.00	TO	23+00.00	--	--	--	--	4.	--	--	--	--	--	--	--	100.	19.3	55.6			
W03	WL 'A'	23+00.00	TO	24+00.00	--	--	--	--	3.	1.	--	--	--	--	--	--	100.	19.3	55.6			
W03	WL 'A'	24+00.00	TO	24+81.00	--	--	1.	1.	--	--	1.	--	1.	1.	1.	--	81.	15.6	45.			
TOTALS					2.	2.	3.	4.	13.	4.	5.	3.	1.	3.	8.	8.	702.	322.	487.	273.	800.	

SUMMARY OF FORCE MAIN (PHASE 1)																							
DRAWING NO.	ALIGNMENT NAME	STATIONING				FITTINGS						VALVES					PIPE						
						6" SPOOL, RJ	6" SOLID SLEEVE	6" x 6" x 3" WYE, RJ	3" 90 DEG. BEND, RJ	3" 45 DEG. BEND, RJ	3" 22.5 DEG. BEND, RJ	3" 11.25 DEG. BEND, RJ	6" CHECK VALVE, RJ	3" CHECK VALVE, RJ	3" GATE VALVE, RJ	2" COMBO AIR RELEASE VALVE W/ CAN & LID	VALVE BOX	VALVE BOX EXTENTION	3" PVC SDR 35, RJ	RESTRAINED 3" DUCTILE IRON	RESTRAINED 6" DUCTILE IRON	BEDDING MATERIAL	EXCAVATION & BACKFILL
						EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
S09	FM '1'	10+00.00	TO	11+00.00	1.	2.	1.	--	1.	--	--	1.	1.	1.	--	3.	3.	96.	4.	2.	9.7	30.2	
S09	FM '1'	11+00.00	TO	12+00.00	--	--	--	--	--	--	1.	--	--	--	--	--	--	100.	--	--	9.6	29.6	
S09	FM '1'	12+00.00	TO	13+00.00	--	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6		
S09	FM '1'	13+00.00	TO	14+00.00	--	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6		
S09	FM '1'	14+00.00	TO	15+00.00	--	--	--	--	--	1.	--	--	--	--	--	--	100.	--	--	9.6	29.6		
S10	FM '1'	15+00.00	TO	16+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6			
S10	FM '1'	16+00.00	TO	17+00.00	--	--	--	--	--	1.	--	--	--	--	--	100.	--	--	9.6	29.6			
S10	FM '1'	17+00.00	TO	18+00.00	--	--	--	--	--	1.	--	--	--	1.	--	100.	--	--	9.6	29.6			
S10	FM '1'	18+00.00	TO	19+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6			
S10	FM '1'	19+00.00	TO	20+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6			
S11	FM '1'	20+00.00	TO	21+00.00	--	--	--	--	--	--	--	--	--	--	--	100.	--	--	9.6	29.6			
S11	FM '1'	21+00.00	TO	22+00.00	--	--	--	--	--	1.	--	--	--	--	--	100.	--	--	9.6	29.6			
S11	FM '1'	22+00.00	TO	23+00.00	--	--	--	1.	--	--	--	--	--	--	--	100.	--	--	9.6	29.6			
S11	FM '1'	23+00.00	TO	24+00.00	--	--	--	--	2.	--	--	--	--	--	--	63.76	36.24	--	9.6	29.6			
S11	FM '1'	24+00.00	TO	25+00.00	--	--	--	--	--	--	--	--	--	--	--	--	100.	--	9.6	29.6			
S11	FM '1'	25+00.00	TO	25+37.05	--	--	--	--	1.	--	--	--	--	--	--	--	37.05	--	3.5	11.			
TOTALS					1.	2.	1.	1.	3.	3.	3.	1.	1.	1.	1.	3.	3.	1,360.	177.	2.	154.	461.	



Plans and Estimates Prepared by:

KEITHLINE ENGINEERING GROUP	DATE
8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY
	REVISION



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 SUMMARIES  
(2 OR 2)

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	11 OF 107
DRAWING:	G11



SUMMARY OF WATERLINE (PHASE 2, ADD ALT 1)																							
DRAWING NO.	ALIGNMENT NAME	STATIONING				FITTINGS							VALVES					PIPE					
						12" x 6" REDUCER, RJ	12"x12"x12" TEE, RJ	12"x12"x6" TEE, RJ	12" 90 DEG. BEND, RJ	12" 45 DEG. BEND, RJ	12" 22.5 DEG. BEND, RJ	12" 11.25 DEG. BEND, RJ	6" SOLID SLEEVE	12" GATE VALVE, RJ	6" GATE VALVE, RJ	3-WAY FIRE HYDRANT	VALVE BOX	VALVE BOX EXTENTION	12" PVC	12" PVC RESTRAINED	RESTRAINED 12" DUCTILE IRON	BEDDING MATERIAL	EXCAVATION & BACKFILL
						EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
W04	WL 'B'	30+00.00	TO	31+00.00	2.	1.	--	--	--	--	1.	--	2.	EA	EA	EA	EA	EA	EA				
W04	WL 'B'	31+00.00	TO	32+00.00	--	--	1.	--	--	--	1.	--	1.	EA	EA	EA	EA	EA	EA				
W04	WL 'B'	32+00.00	TO	33+00.00	--	1.	--	1.	5.	--	--	--	--	EA	EA	EA	EA	EA	EA				
W04	WL 'B'	33+00.00	TO	34+00.00	--	--	--	2.	4.	--	--	--	--	EA	EA	EA	EA	EA	EA				
W05	WL 'B'	34+00.00	TO	35+00.00	--	1.	--	--	1.	--	--	--	--	EA	EA	EA	EA	EA	EA				
W05	WL 'B'	35+00.00	TO	36+00.00	--	--	--	4.	--	--	--	--	--	EA	EA	EA	EA	EA	EA				
W05	WL 'B'	36+00.00	TO	36+60.00	--	--	--	1.	--	--	--	--	--	EA	EA	EA	EA	EA	EA				
TOTALS					2.	3.	1.	1.	7.	10.	1.	2.	3.	1.	1.	4.	4.	120.	45.	495.	126.	344.	

SUMMARY OF SANITARY SEWER PIPE (PHASE 2, ADD ALT 1)													
DRAWING NO.	MANHOLE TO MANOLE		STATIONING				8" DIP	BEDDING MATERIAL	EXCAVATION & BACKFILL	CY			
											LF	CY	CY
											EA	EA	EA
S12	3-1	TO	3-2	20+00.00	TO	20+29.38	29.38		4.2	24.5			
S12	3-2	TO	3-3	20+29.38	TO	21+11.48	82.1		11.6	76.			
S12	3-3	TO	3-4	21+11.48	TO	23+12.89	201.41		28.5	205.1			
S12	3-4	TO	3-5	23+12.89	TO	24+47.94	135.05		19.1	156.3			
TOTALS							447.		64.	462.			

SUMMARY OF SANITARY SEWER MANHOLES (PHASE 2, ADD ALT 1)									
DRAWING NO.	STATION	STR. I.D.	DESCRIPTION	ELEVATION		PRECAST ROUND MANHOLE			
				TOP OF RIM	PIPE FLOWLIN @ MH CENTER	4' DIA MANHOLE	ADDITIONAL DEPTH 4' DIA MANHOLE	TOTAL DEPTH	
				ELEV.	ELEV.	EA	VF	VF	
S12	20+00.00	3-1	PRECAST ROUND 8' DIA WET WELL	686.56		.	--	--	
S12	20+29.38	3-2	PRECAST ROUND 4' DIA MH	686.57	677.70	1.	2.87	8.87	
S12	21+11.48	3-3	PRECAST ROUND 4' DIA MH	688.38	678.07	1.	4.31	10.31	
S12	23+12.89	3-4	PRECAST ROUND 4' DIA MH	690.88	678.85	1.	6.03	12.03	
S12	24+47.94	3-5	PRECAST ROUND 4' DIA MH	691.25	679.39	1.	5.86	11.86	
TOTALS						4.	19.07	43.07	

SUMMARY OF SEWER SERVICE (PHASE 2, ADD ALT 1)							
DRAWING NO.	SEWER MAIN TEE CONNECTION STATION	IN-LINE TEE (FUTURE CONNECTION)		SERVICE RISER 4" SDR 35	4" FITTINGS	BEDDING MATERIAL	EXCAVATION & BACKFILL
		EA	LF				
		EA	EA				
S12	21+25.79	--	30.	7.	3.	5.2	34.3
S12	22+64.31	--	40.	7.	2.	6.6	43.5
S12	22+77.41	3.	20.	7.	2.	3.8	25.
TOTALS		3.	90.	21.	7.	16.	103.

SUMMARY OF FORCE MAIN (PHASE 2, ADD ALT 1)																						
DRAWING NO.	ALIGNMENT NAME	STATIONING				FITTINGS						VALVES					PIPE					
						6" SPOOL, RJ	6" SOLID SLEEVE	6" x 6" x 3" WYE, RJ	3" 45 DEG. BEND, RJ	3" 22.5 DEG. BEND, RJ	3" 11.25 DEG. BEND, RJ	6" CHECK VALVE, RJ	3" CHECK VALVE, RJ	3" GATE VALVE, RJ	2" COMBO AIR RELEASE VALVE W/ CAN & LID	VALVE BOX	VALVE BOX EXTENTION	3" PVC SDR 35	RESTRAINED 3" DUCTILE IRON	RESTRAINED 6" DUCTILE IRON	BEDDING MATERIAL	EXCAVATION & BACKFILL
						EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
S15	FM '1'	10+00.00	TO	11+00.00	1.	2.	1.	1.	--	--	1.	1.	1.	1.	3.	3.	96.	4.	2.	9.7	30.2	
S15	FM '1'	11+00.00	TO	12+00.00	--	--	--	--	--	1.	--	--	--	--	--	--	100.	--	--	9.6	29.6	
S15	FM '1'	12+00.00	TO	13+00.00	--	--	--	--	2.	--	--	--	--	--	--	--	100.	--	--	9.6	29.6	
S15	FM '1'	13+00.00	TO	14+00.00	--	--	--	4.	--	1.	--	--	--	--	--	--	100.	--	--	9.6	29.6	
S15	FM '1'	14+00.00	TO	14+14.70	--	--	--	--	--	--	--	--	--	--	--	--	14.7	--	--	1.4	4.4	
TOTALS					1.	2.	1.	5.	2.	2.	1.	1.	1.	1.	3.	3.	411.	4.	2.	41.	124.	



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
 SUMMARIES  
 (2 OF 2)

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	13 OF 107
DRAWING:	G13



**GENERAL NOTES**

**TOPSOILING NOTE**

The Contractor shall strip all of the available topsoil, stockpile it and place it back on the section in accordance with Section 205 of the current ODOT Standard Specification. Reserved topsoil shall be spread first on the completed slopes of the cut sections and the remainder on completed fill slopes or other Priority Areas located by the Engineer. All additional costs associated with operation shall be included in the Pay Items for salvaged topsoil, lump sum.

The Grading Line as shown on the typical and cross sections is to the top of the topsoil. Earthwork Quantities were not adjusted for salvage and the Topsoil Quantity is included.

**ROUNDING NOTE**

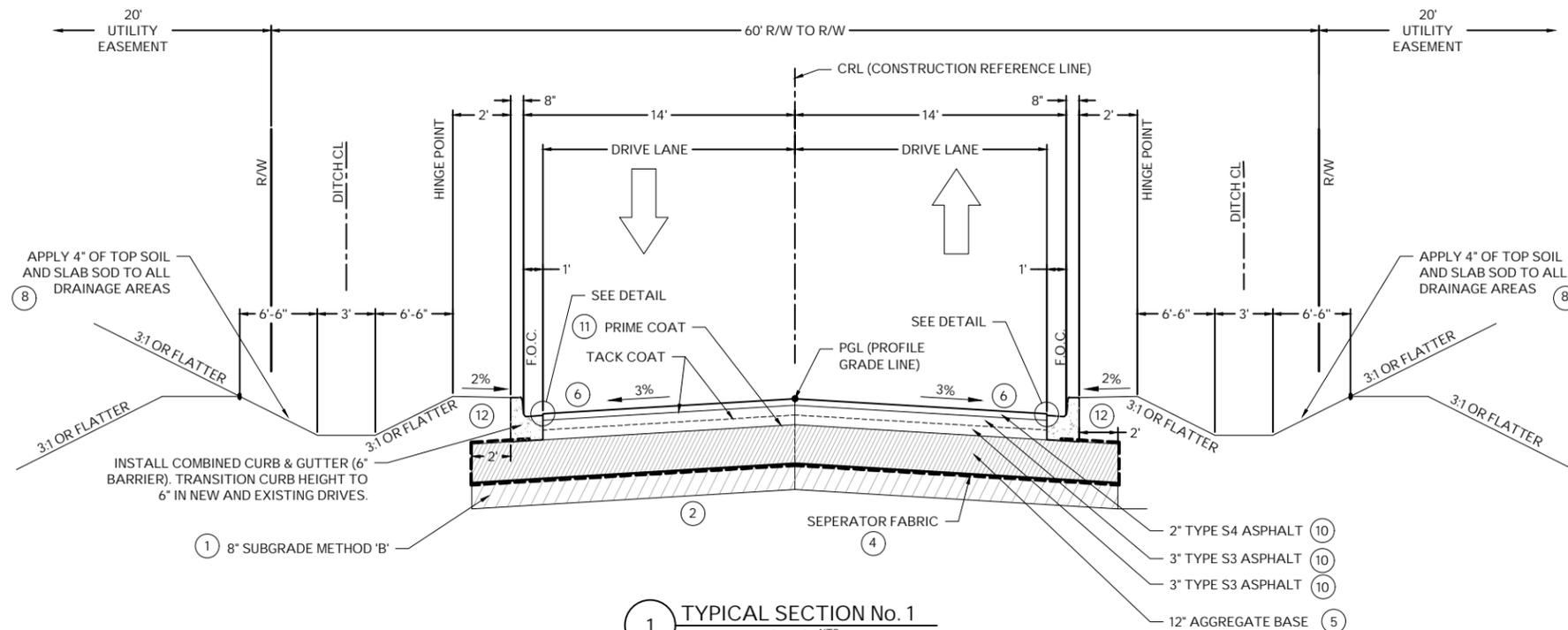
Intersection of cut and fill slopes with the ground line are to be rounded as a part of the finish operations. Rounding shall be 5' minimum for smaller cuts and fills, to 15' maximum for larger cuts and fills or as designated by the Engineer. Cost of rounding to be included in the price bid for other items of work.

**BACKFILLING NOTE**

To be Backfilled and Compacted as a part of the Finishing Operations. This work will be measured and paid for as unclassified borrow with no rocks or organics.

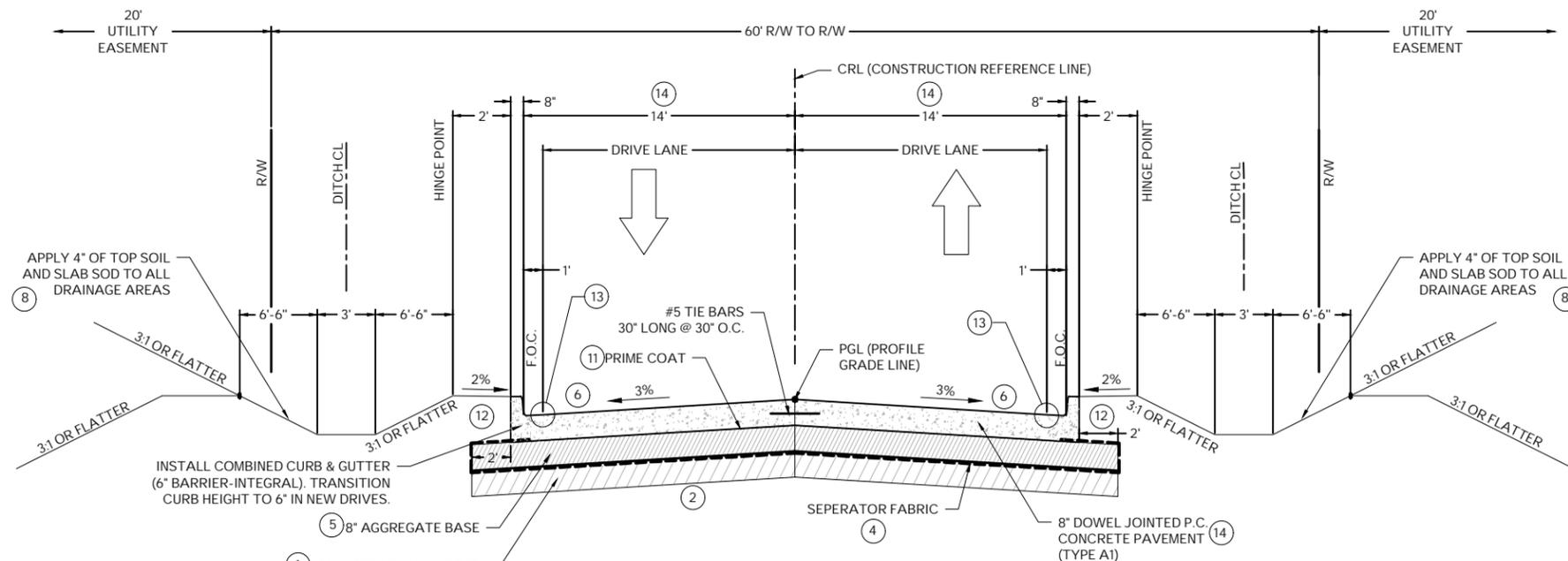
**TYPICAL SECTION NOTES**

- ① **Subgrade soils** shall be compacted as specified in ODOT Standards Section 310.04, Method B with the following exceptions: Subgrade soils shall be scarified to a depth of not less than 8", the moisture content of the scarified soil adjusted to not less than optimum and compacted with a range of 95% to 98% of standard density as determined by AASHTO T-99. Cost to be included in other items of work.
- ② **All fill soil material** utilized in the roadway bedding shall consist of 'non-expansive clays' structural fill approved by testing firm. Fill material shall be installed in horizontal layers and bench into the native embankment.
- ③ **Proofrolling** of the exposed subgrade and proper compaction of fill is required to detect and correct unstable or undesirable material to create support for the placed elements. **Failed subgrade** shall be undercut and filled with acceptable structural fill material.
- ④ **High performance woven polypropylene geotextile** for subgrade separation, soil reinforcement, confinement and filtration reinforcement. Inert to biological degradation and naturally encountered chemicals. An approved equal to Mirafi HP 370.
- ⑤ **Aggregate base** shall be crushed stone meeting the gradation requirements of Type A as specified in ODOT Standard Section 703.01(d). Type A aggregate base shall be placed on native subgrade soils and compacted to not less than 95% of Standard Proctor Density as determined by AASHTO T-99. Aggregate base shall be placed and compacted in lifts which will result in a maximum compacted thickness of 6".
- ⑥ Normal cross slope will be as shown on the typical sections. When connecting to existing pavement the new pavement **Transition/Rotation rate** shall be 0.0005 foot per foot from the PGL to match at existing pavement profile.
- ⑦ The top surface of the **Type S4 Asphalt** shall be completed a 1/2" higher than gutter pan edge.
- ⑧ Permanent Pavement Section Slope Protection: Install **solid slab sod** on approved top soil grade at all roadway and driveway fore slopes, ditch bottoms and 4 foot of back slope per ODOT SSS-1. Place either 8" of topsoil or topsoil mixed with mulch underneath all drainage areas.
- ⑨ **All longitudinal and transverse joints** are to be green concrete sawed ASAP after placement then dimensioned sawed and sealed at all curb and gutter, drive, roadway, sidewalk and median joints in accordance with ODOT Standard LCES-2.
- ⑩ Type S3 asphalt to be superpave (PG 64-22 OK), Type S4 to be superpave (PG 64-22 OK)
- ⑪ Prime coat to be replaced with Tack coat on edges as approved by engineer.
- ⑫ Backfill and compact as part of the finishing operations. This material will be obtained from excess excavation. No payment will be made for finishing operations.
- ⑬ Longitudinal Tie Joint, See drawing R02, detail 06.
- ⑭ Successful contractor to submit a concrete joint layout and rebar plan for approval prior to beginning work.



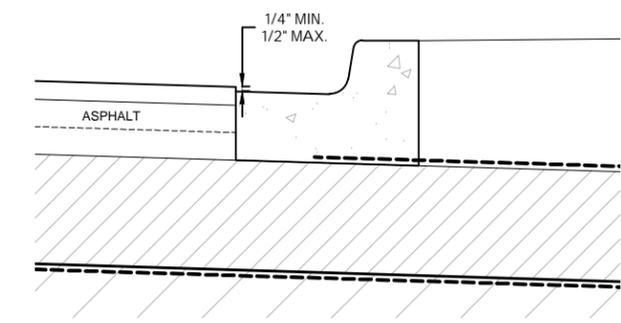
**1 TYPICAL SECTION No. 1**  
 FULL SIZE SCALE (22x34): NTS  
 HALF SIZE SCALE (11x17): NTS

PHASE '1' (BASE BID) - INDUSTRY WAY - STA. 20+12 TO 32+29  
 PHASE '2' (ADD. ALT. 1) - COMMERCE DR. - STA. 50+11.84 TO 33+26.77



**2 TYPICAL SECTION No. 2**  
 FULL SIZE SCALE (22x34): NTS  
 HALF SIZE SCALE (11x17): NTS

PHASE '1' (ADD. ALT. 3) - INDUSTRY WAY - STA. 20+12 TO 32+29  
 PHASE '2' (ADD. ALT. 5) - COMMERCE DR. - STA. 50+11.84 TO 33+26.77



**3 ODOT STANDARD R-15  
 6" BARRIER CURB DETAIL**  
 FULL SIZE SCALE (22x34): NTS  
 HALF SIZE SCALE (11x17): NTS

Plans and Estimates Prepared by:

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BY	
REVISION	

KEITHLINE ENGINEERING GROUP  
 8556 E. 101ST ST., STE. C, TULSA, OKLAHOMA 74133 (918) 369-7911

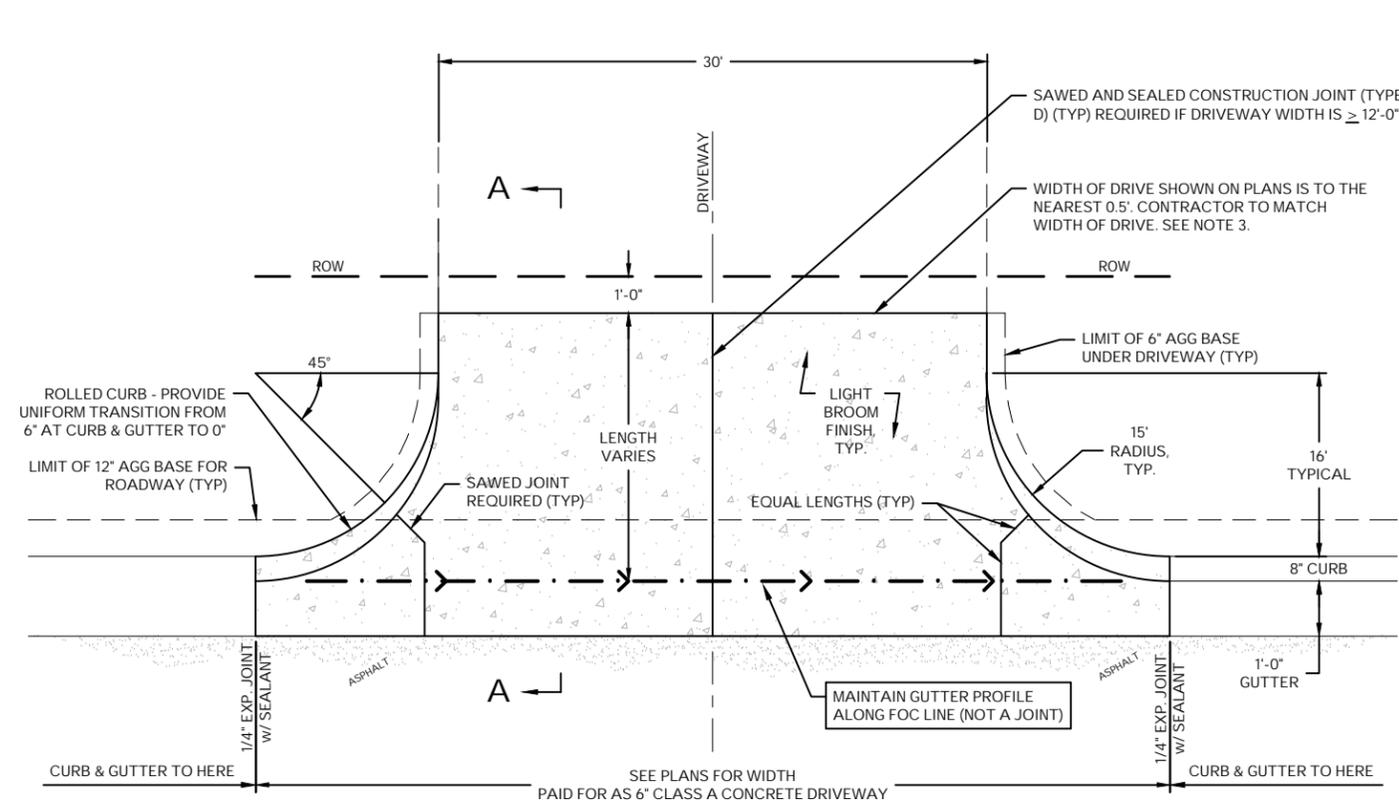


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

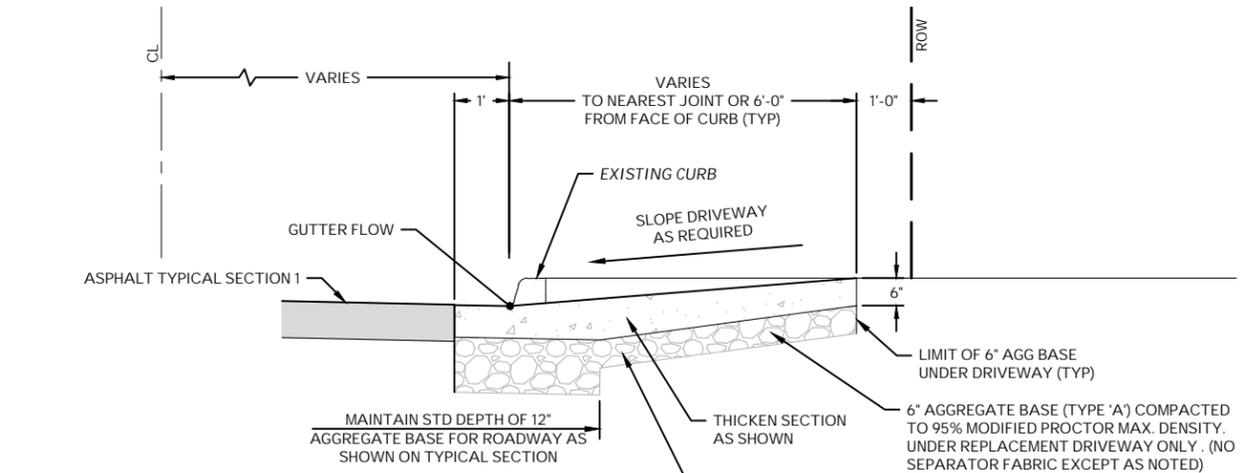
TYPICAL SECTIONS  
 ROADWAY &  
 DITCH

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	14 OF 107
DRAWING:	R01

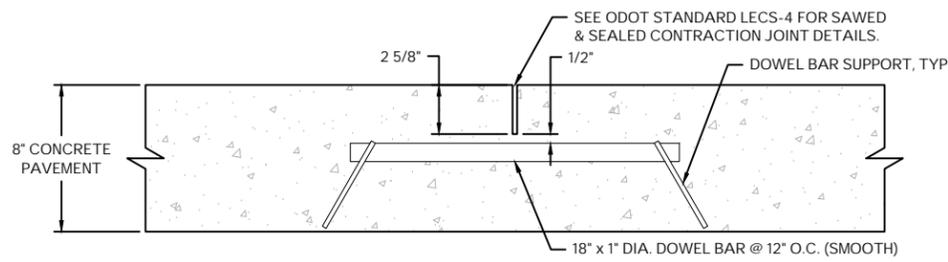
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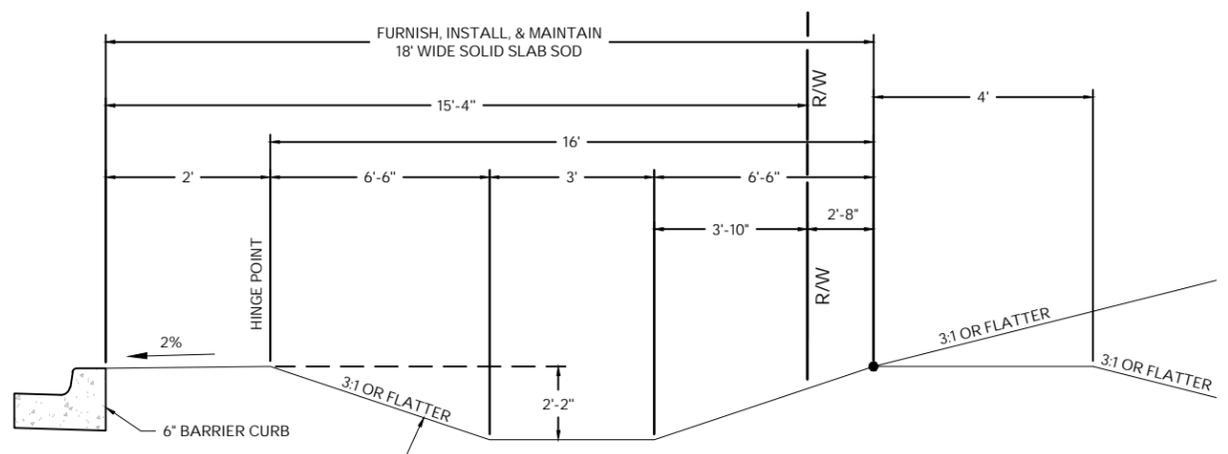
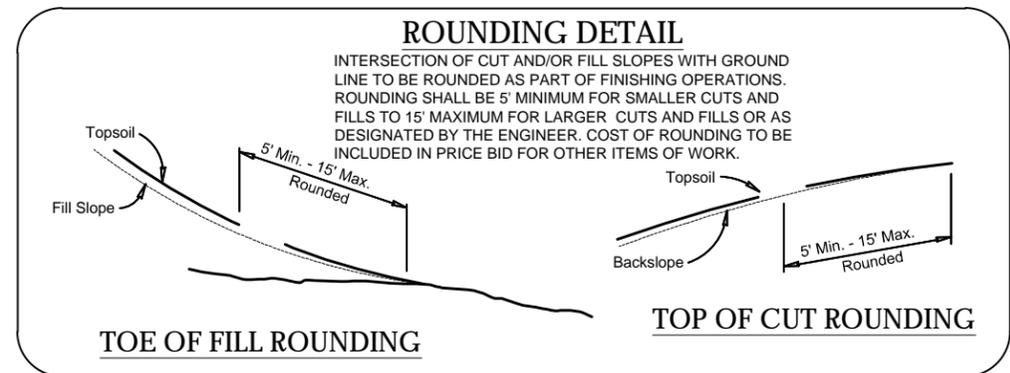
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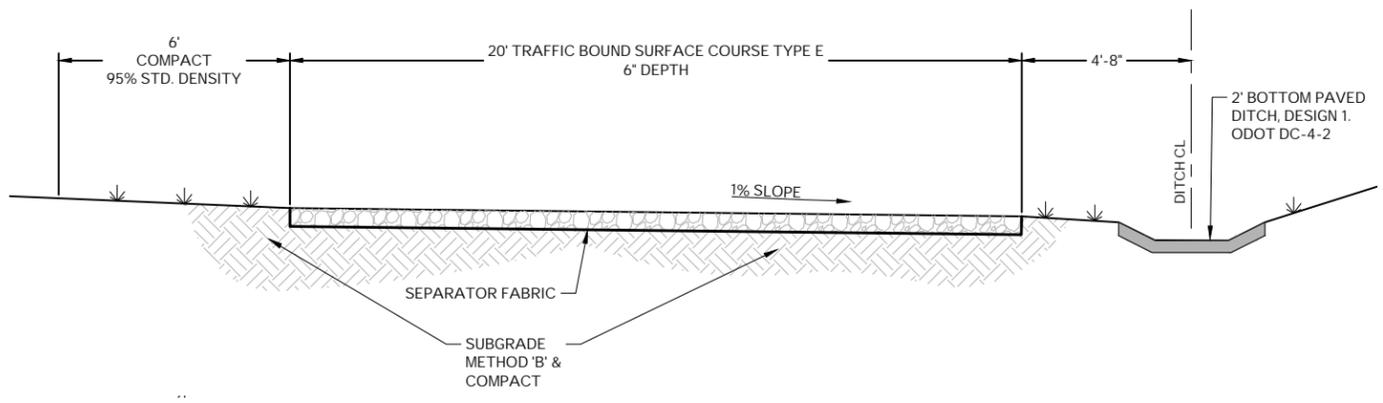
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SCALE: NTS



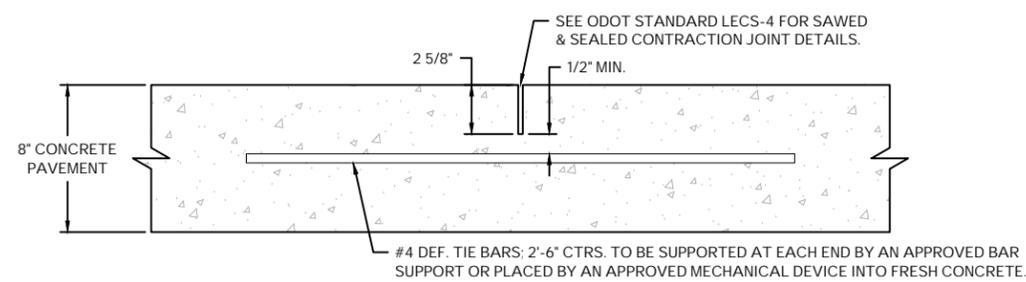
**5 TRANSVERSE DOWELED CONTRACTION JOINT**  
SCALE: NTS



**3 TYPICAL GRASS LINED DITCH**  
FULL SIZE SCALE (22x34): NTS  
HALF SIZE SCALE (11x17): NTS



**4 PHASE 1 - ACCESS RD. TYPICAL SECTION**  
STA. 32+29.28 TO STA. 35+50.22  
FULL SIZE SCALE (22x34): NTS  
HALF SIZE SCALE (11x17): NTS



**6 LONGITUDINAL TIE JOINT**  
SCALE: NTS

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DATE	BY	REVISION



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

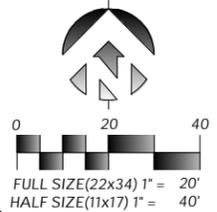
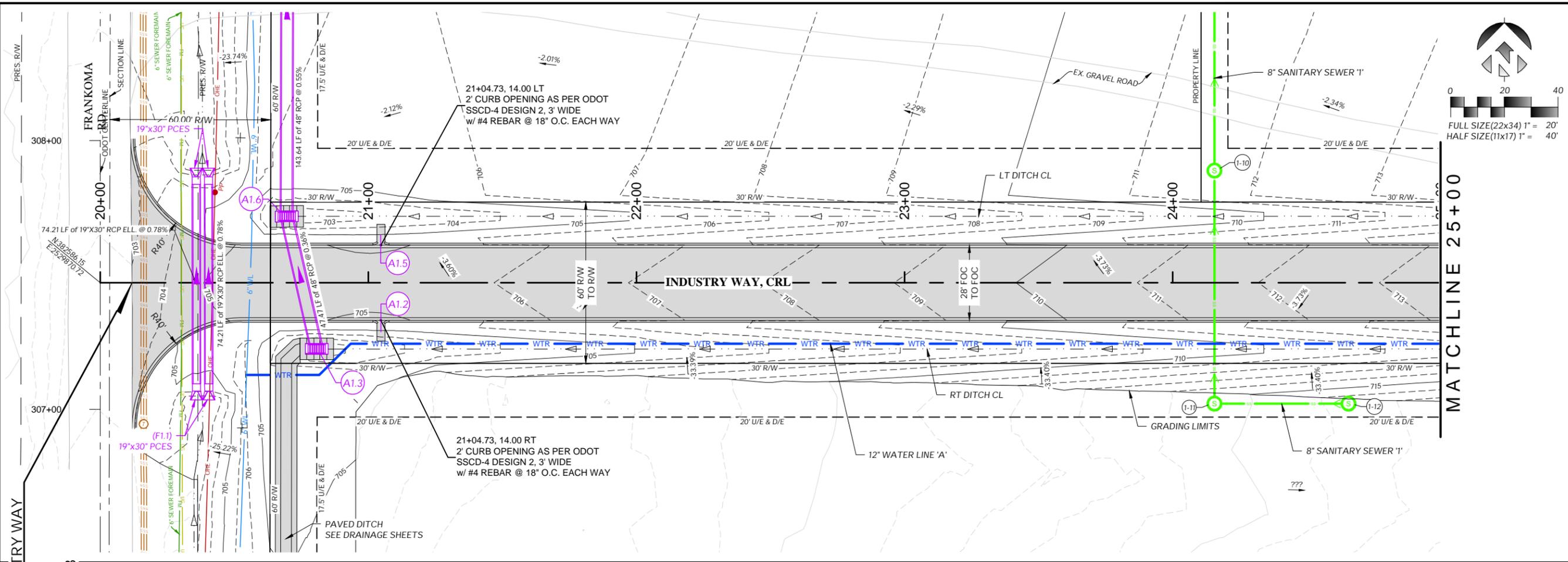
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PAVEMENT &  
DITCH DETAILS**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
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ATLAS PAGE NO.	-
DATE:	JANUARY 9, 2026
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DRAWING:	R02

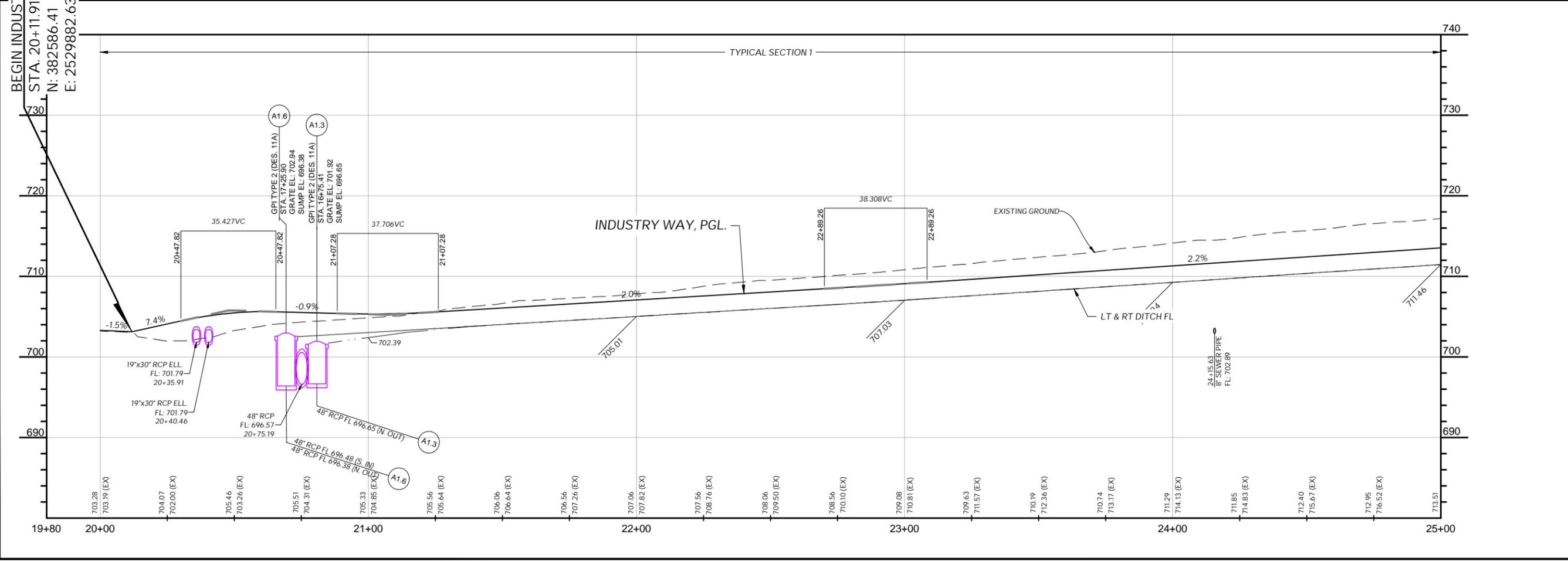
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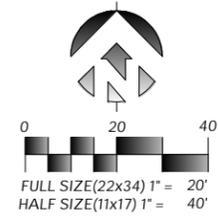
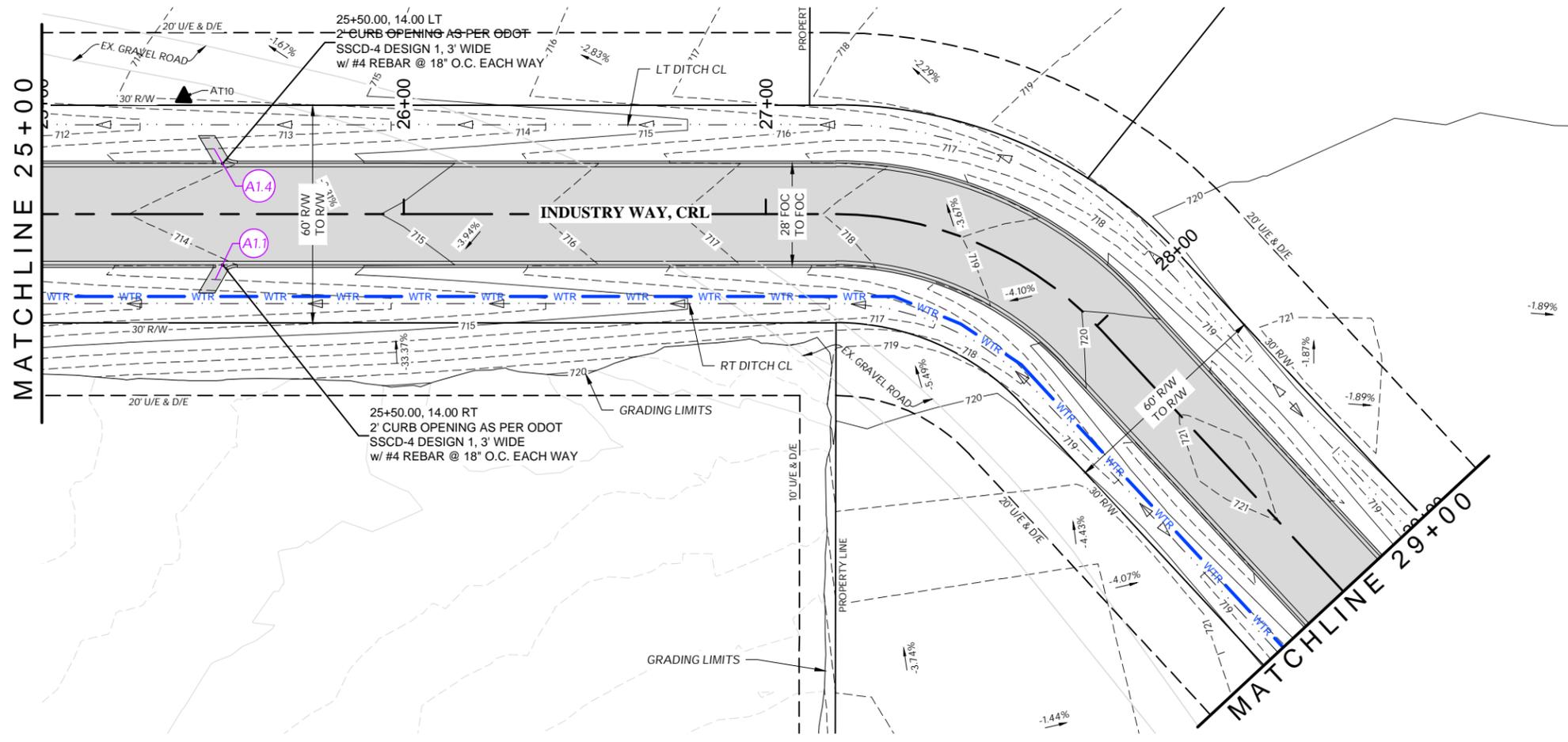
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
PLAN & PROFILE  
INDUSTRY WAY  
STA. 20+00 TO 25+00**

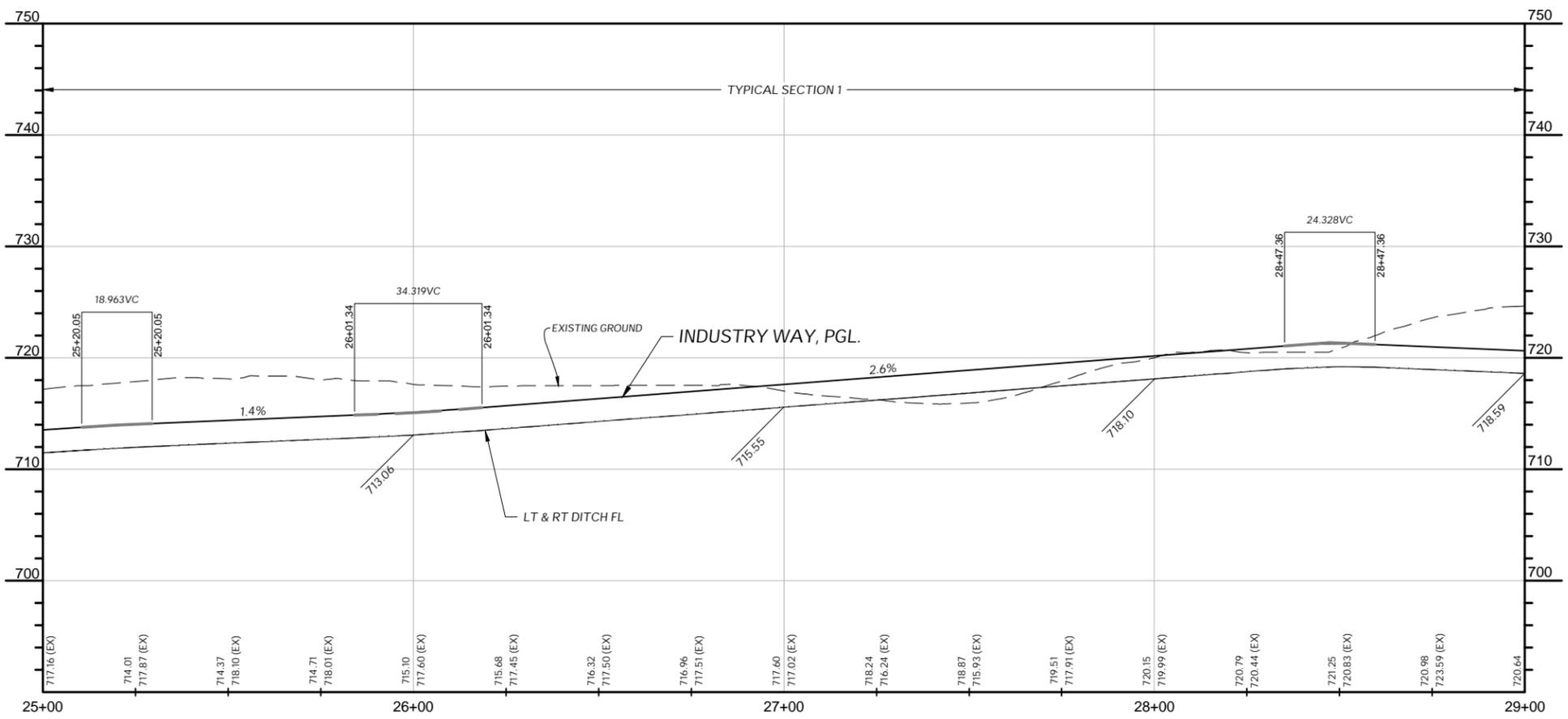
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	16 OF 107
DRAWING:	R03

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ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

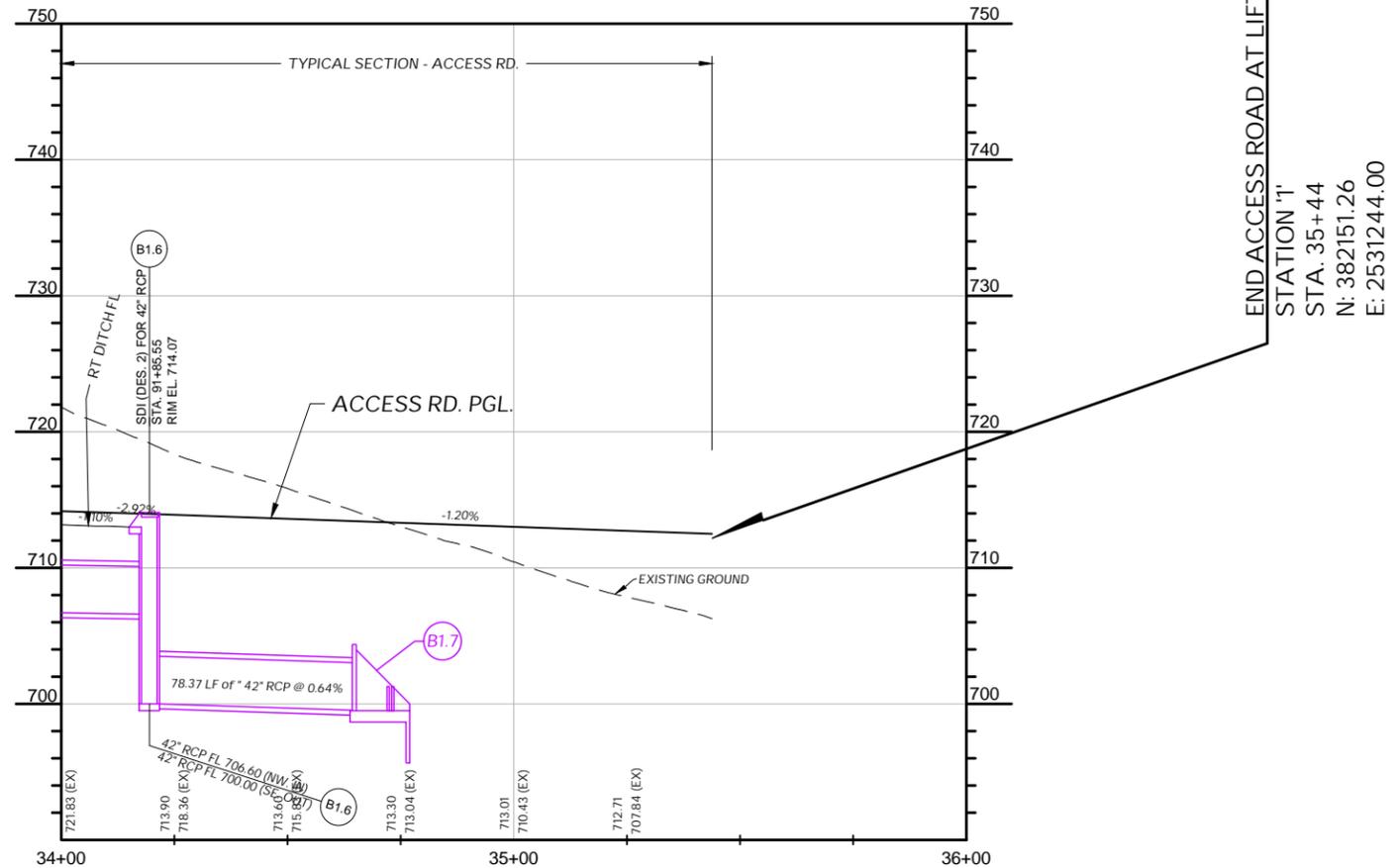
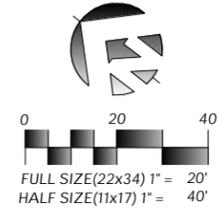
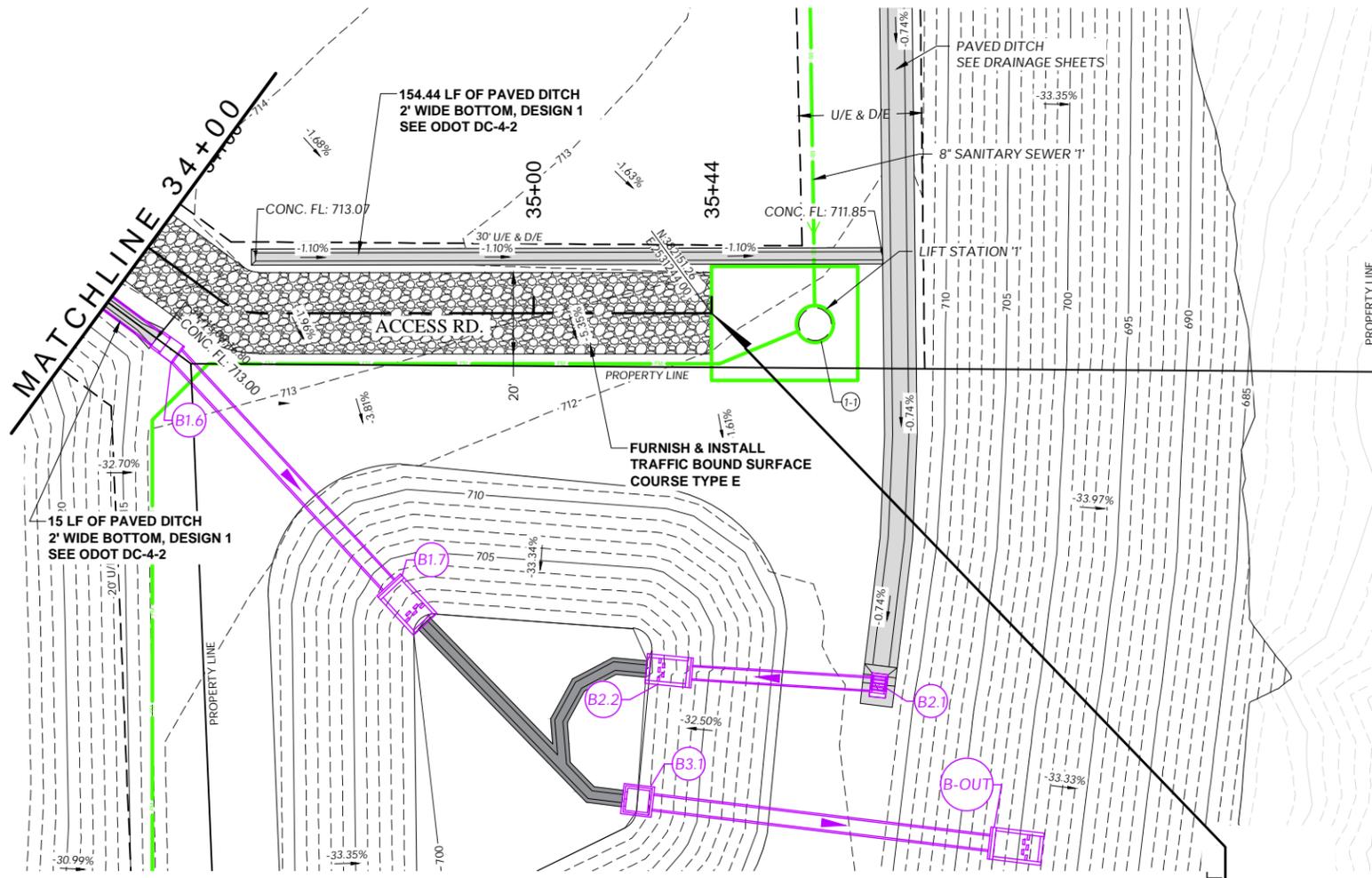
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PLAN & PROFILE  
INDUSTRY WAY  
STA. 25+00 TO 29+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
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DRAWING:	R04



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END ACCESS ROAD AT LIFT  
 STATION 1'  
 STA: 35+44  
 N: 382151.26  
 E: 2531244.00



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		REVISION	

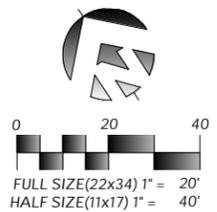
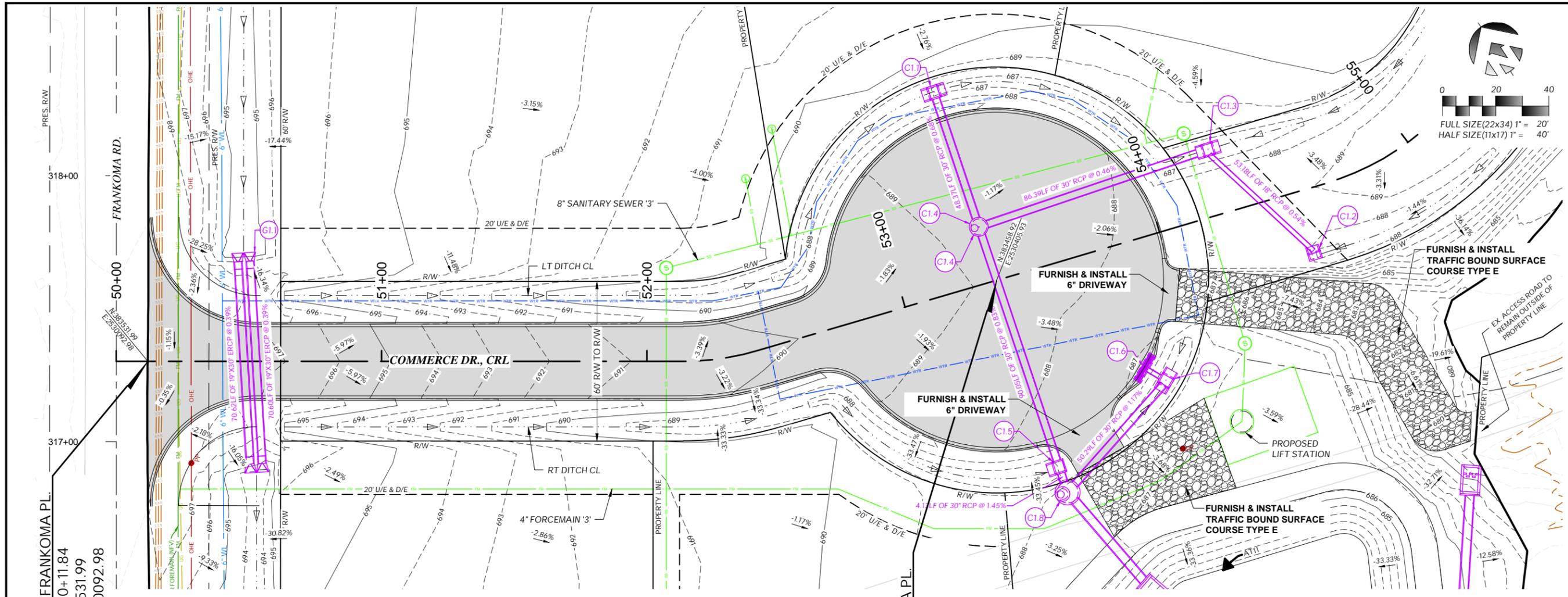


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 ACCESS ROAD  
 STA. 34+00 TO 35+50

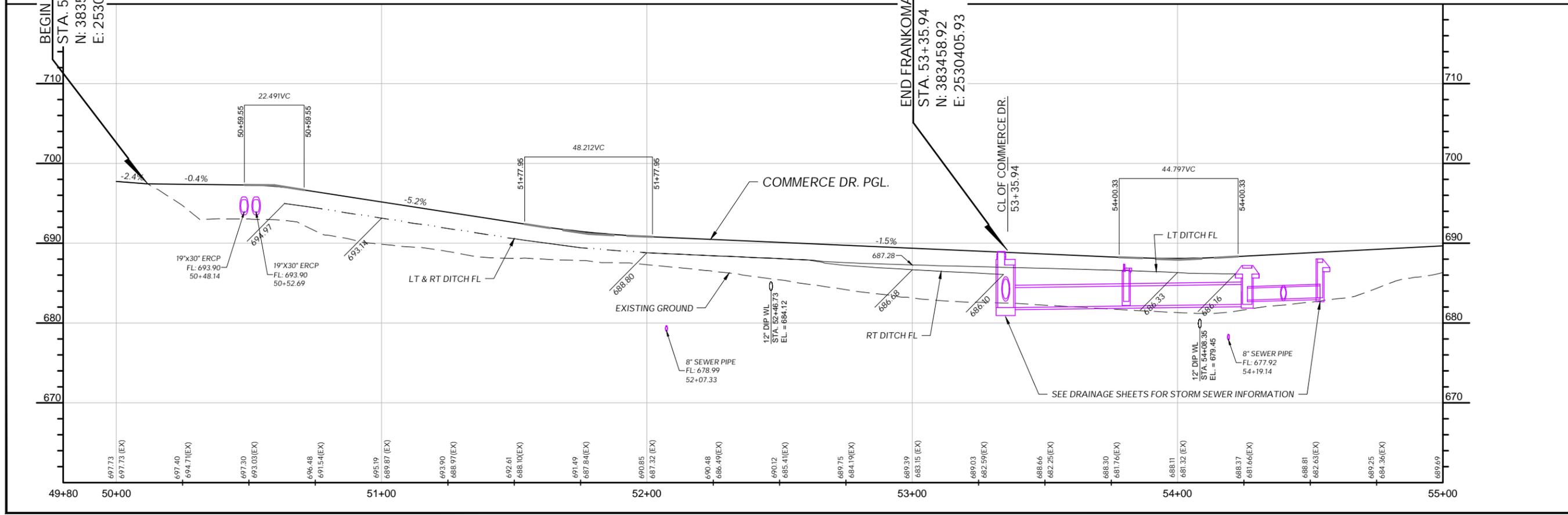
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
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DRAWING:	R06

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REVISION	DATE



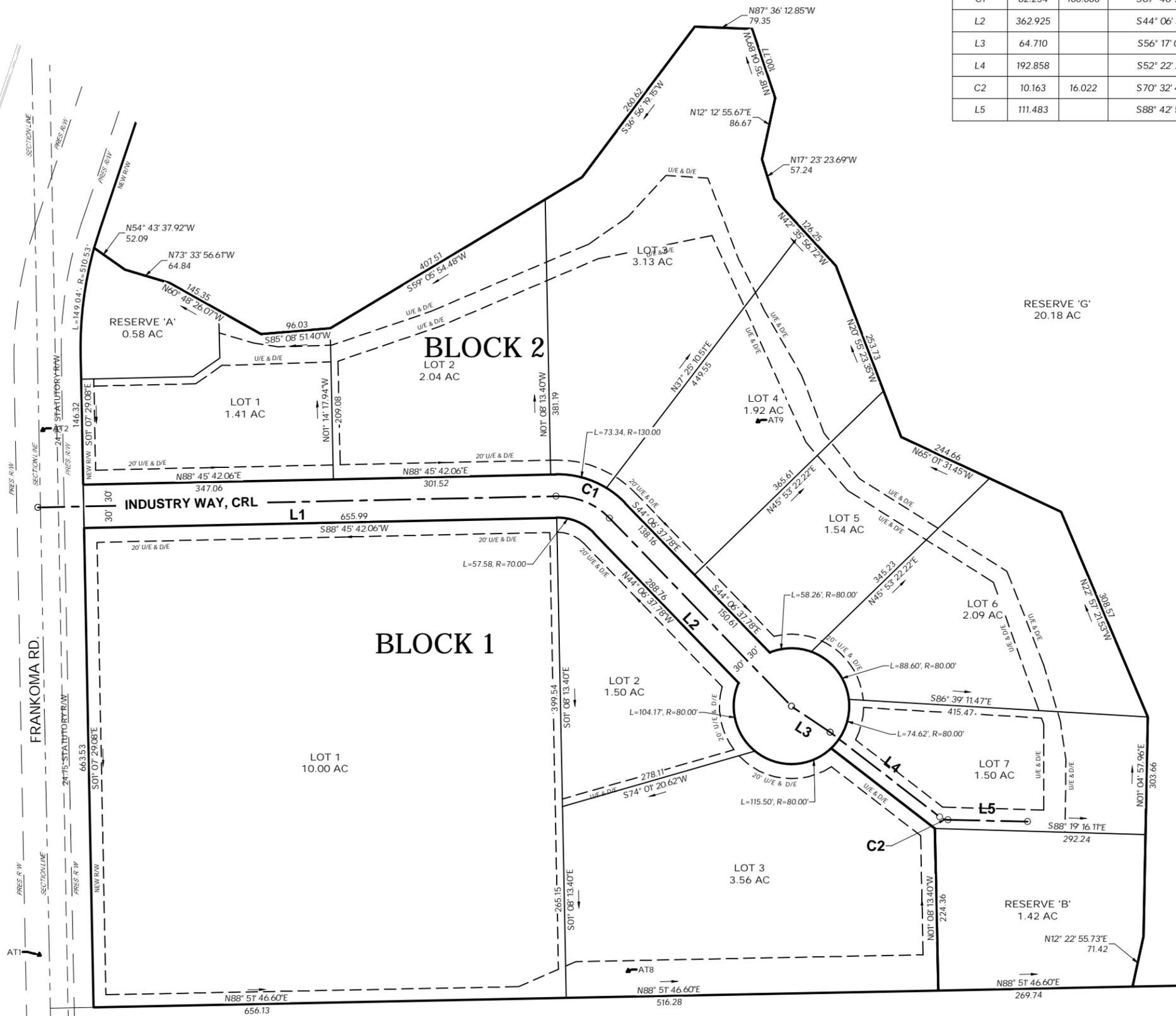
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

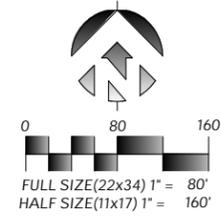
**PHASE 2 (ALT 1)  
PLAN & PROFILE  
COMMERCE DR.  
STA 50+11 TO 53+36**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE:	JANUARY 9, 2026
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DRAWING:	R07

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INDUSTRY WAY						
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION	START N, E	END N, E	STATIONING
L1	719.431		N88° 45' 42.06"E	382586.15, 2529870.72	382601.70, 2530589.98	20+00.00 TO 27+19.43
C1	82.254	100.000	S67° 40' 27.86"E	382601.70, 2530589.98	382571.32, 2530663.94	27+19.43 TO 28+01.68
L2	362.925		S44° 06' 37.78"E	382571.32, 2530663.94	382310.74, 2530916.55	28+01.68 TO 31+64.61
L3	64.710		S56° 17' 08.06"E	382310.74, 2530916.55	382274.83, 2530970.38	31+64.61 TO 32+29.32
L4	192.858		S52° 22' 24.14"E	382274.83, 2530970.38	382157.08, 2531123.12	32+29.32 TO 34+22.18
C2	10.163	16.022	S70° 32' 40.78"E	382157.08, 2531123.12	382153.76, 2531132.55	34+22.18 TO 34+32.34
L5	111.483		S88° 42' 57.42"E	382153.76, 2531132.55	382151.26, 2531244.00	34+32.34 TO 35+43.82



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ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

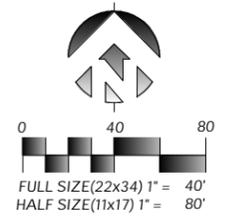
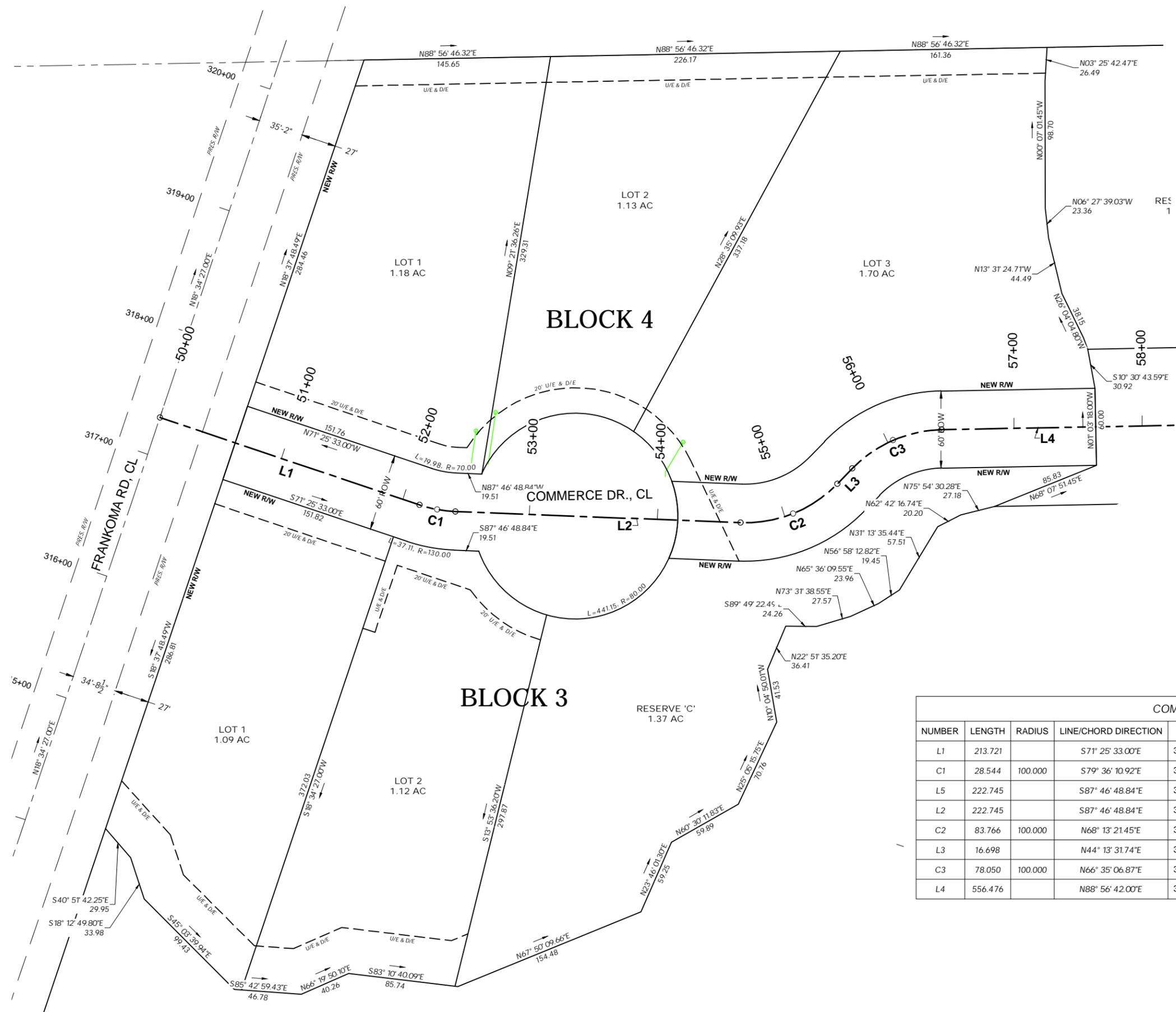
SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 RIGHT-OF-WAY  
 &  
 GEOMETRICS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
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DRAWING:	R08



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**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

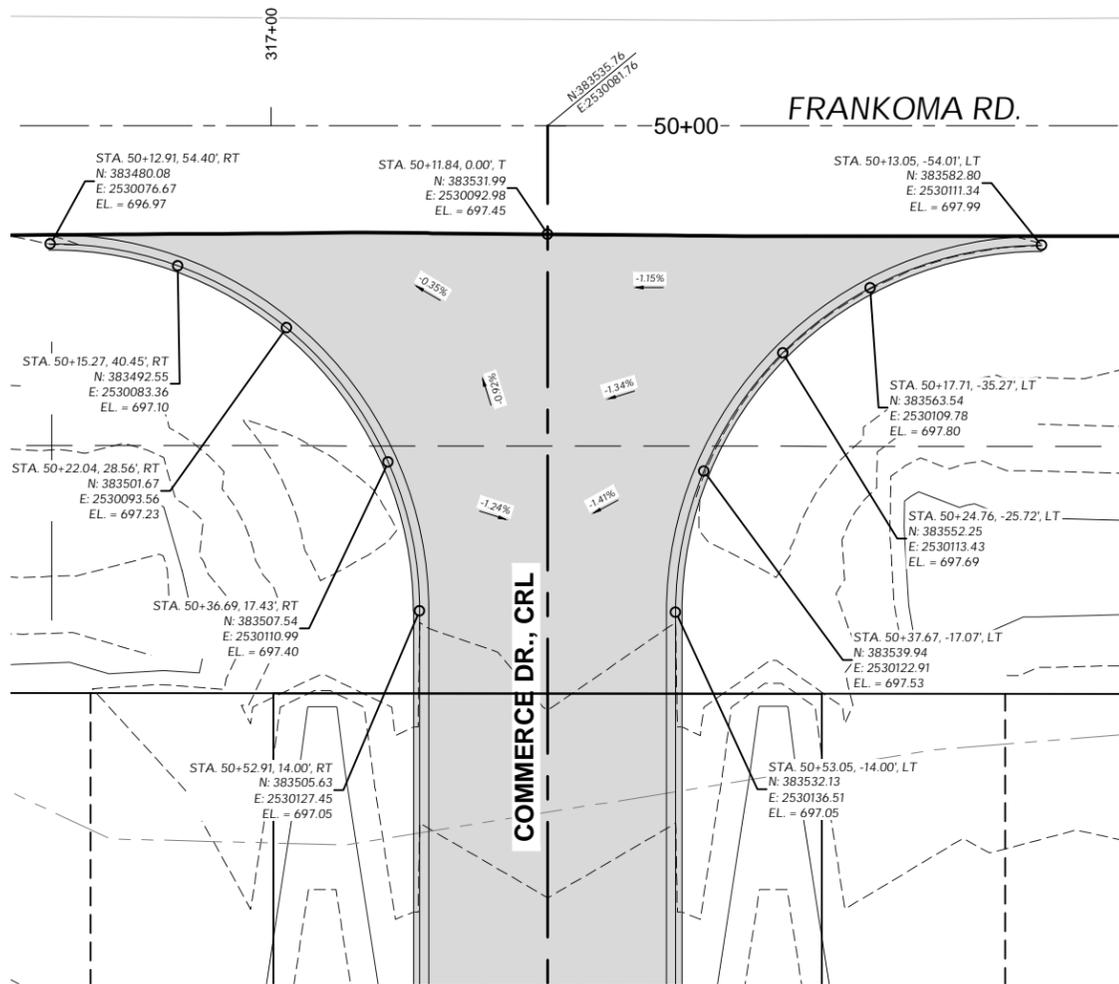
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

COMMERCE DR.						
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION	START N, E	END N, E	STATIONING
L1	213.721		S71° 25' 33.00"E	383535.76, 2530081.76	383467.68, 2530284.35	50+00.00 TO 52+13.72
C1	28.544	100.000	S79° 36' 10.92"E	383467.68, 2530284.35	383462.55, 2530312.33	52+13.72 TO 52+42.26
L5	222.745		S87° 46' 48.84"E	383462.55, 2530312.33	383453.92, 2530534.91	52+42.26 TO 54+65.01
L2	222.745		S87° 46' 48.84"E	383462.55, 2530312.33	383453.92, 2530534.91	52+42.26 TO 54+65.01
C2	83.766	100.000	N68° 13' 21.45"E	383453.92, 2530534.91	383484.10, 2530610.44	54+65.01 TO 55+48.78
L3	16.698		N44° 13' 31.74"E	383484.10, 2530610.44	383496.06, 2530622.09	55+48.78 TO 55+65.47
C3	78.050	100.000	N66° 35' 06.87"E	383496.06, 2530622.09	383526.30, 2530691.91	55+65.47 TO 56+43.52
L4	556.476		N88° 56' 42.00"E	383526.30, 2530691.91	383536.54, 2531248.29	56+43.52 TO 62+00.00

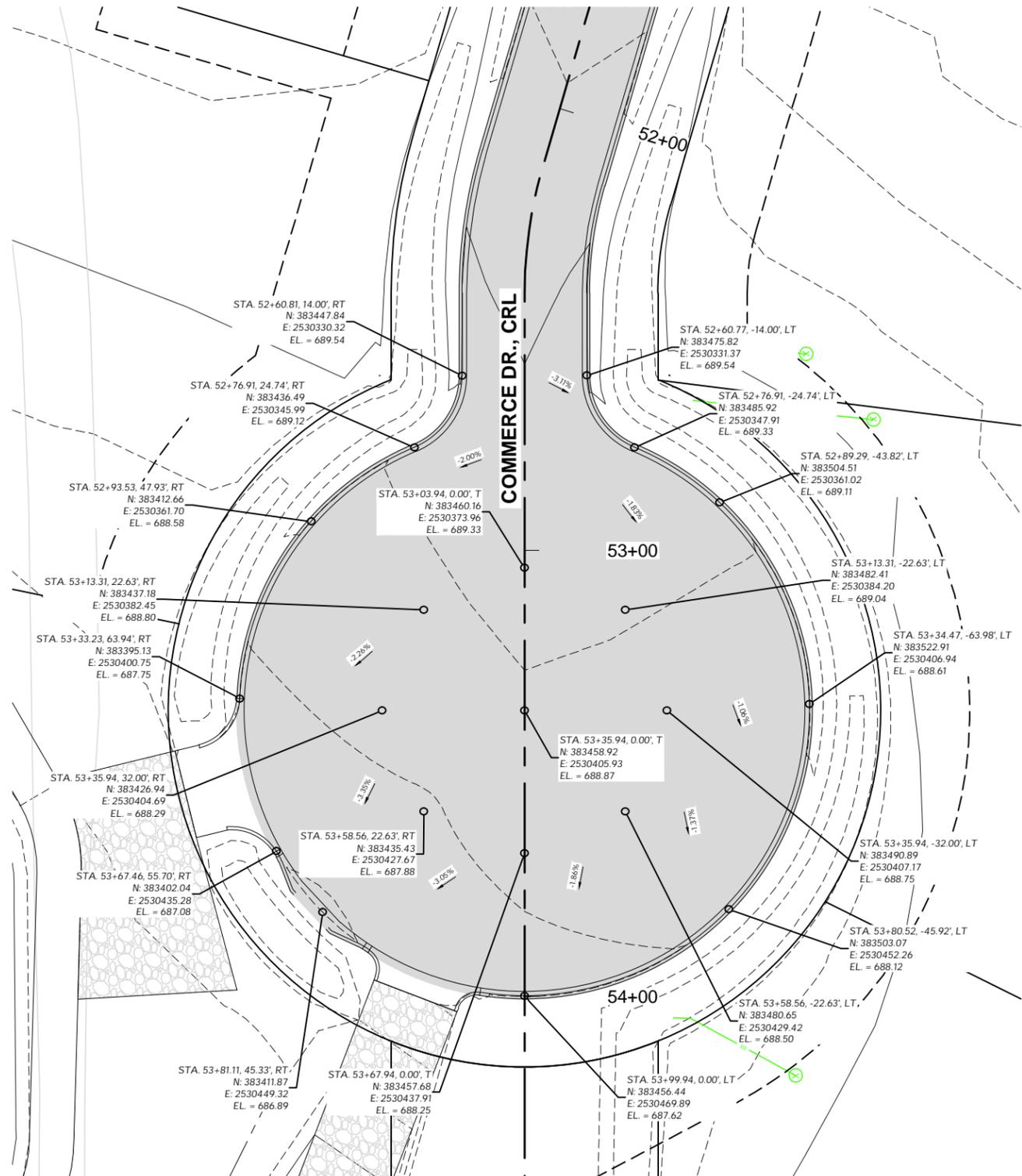
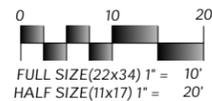
**PHASE 2 (ALT 1)  
RIGHT-OF-WAY  
&  
GEOMETRICS**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
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ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	23 OF 107
DRAWING:	R10

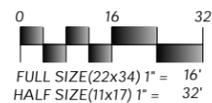
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**1 INTERSECTION @  
FRANKOMA RD. & COMMERCE DR.**  
FULL SIZE SCALE (22x34): 1" = 10'  
HALF SIZE SCALE (11x17): 1" = 20'



**2 CUL-DE-SAC @ COMMERCE DR.**  
FULL SIZE SCALE (22x34): 1" = 16'  
HALF SIZE SCALE (11x17): 1" = 32'



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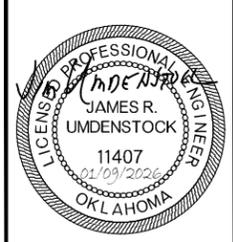
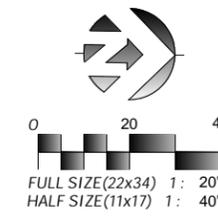
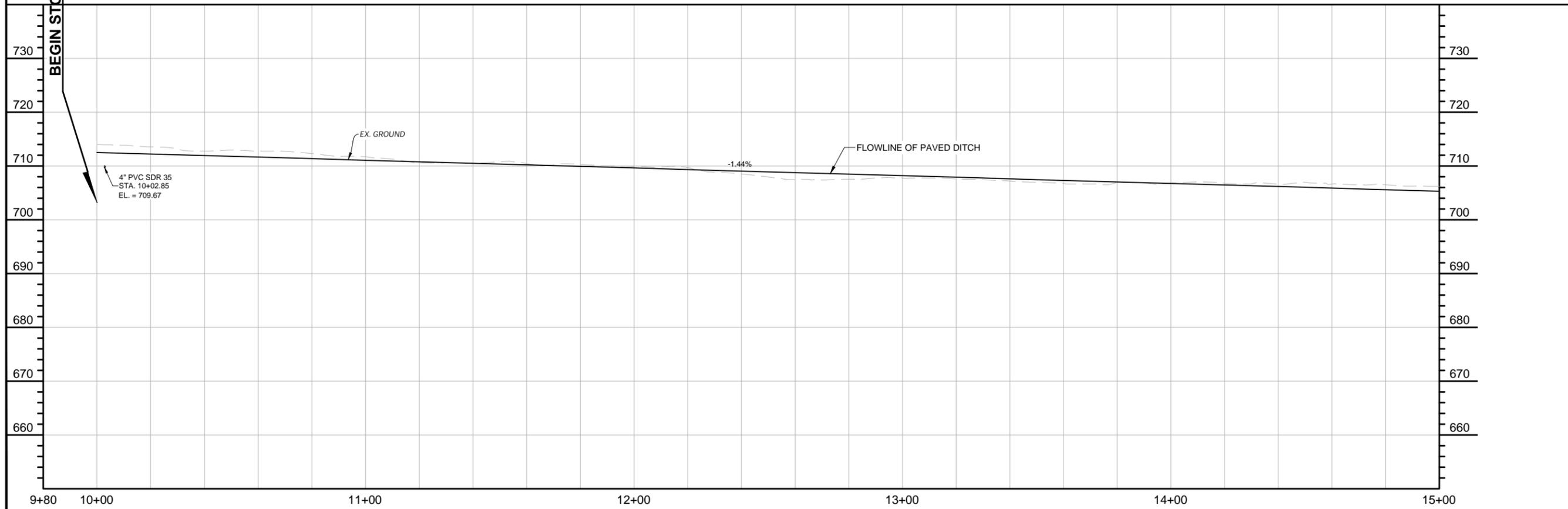
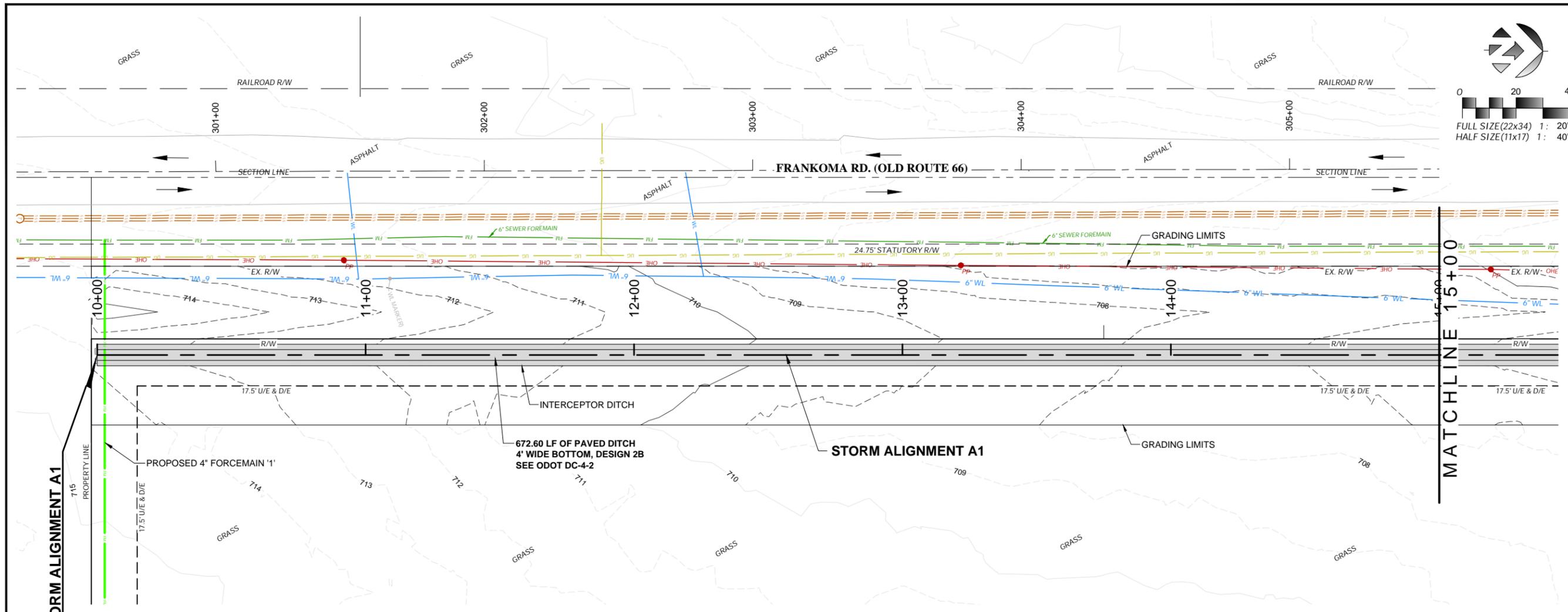
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 2  
INTERSECTION  
DETAILS**

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SHEET:	24 OF 107
DRAWING:	R11

1/9/2026 10:10:57 AM



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	

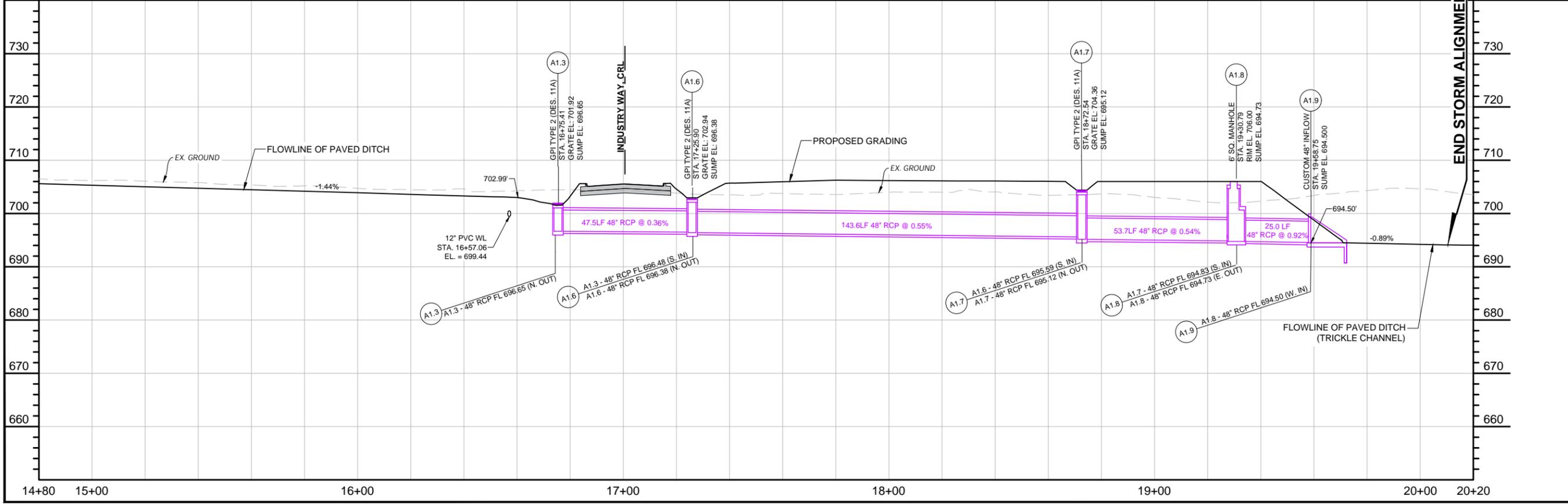
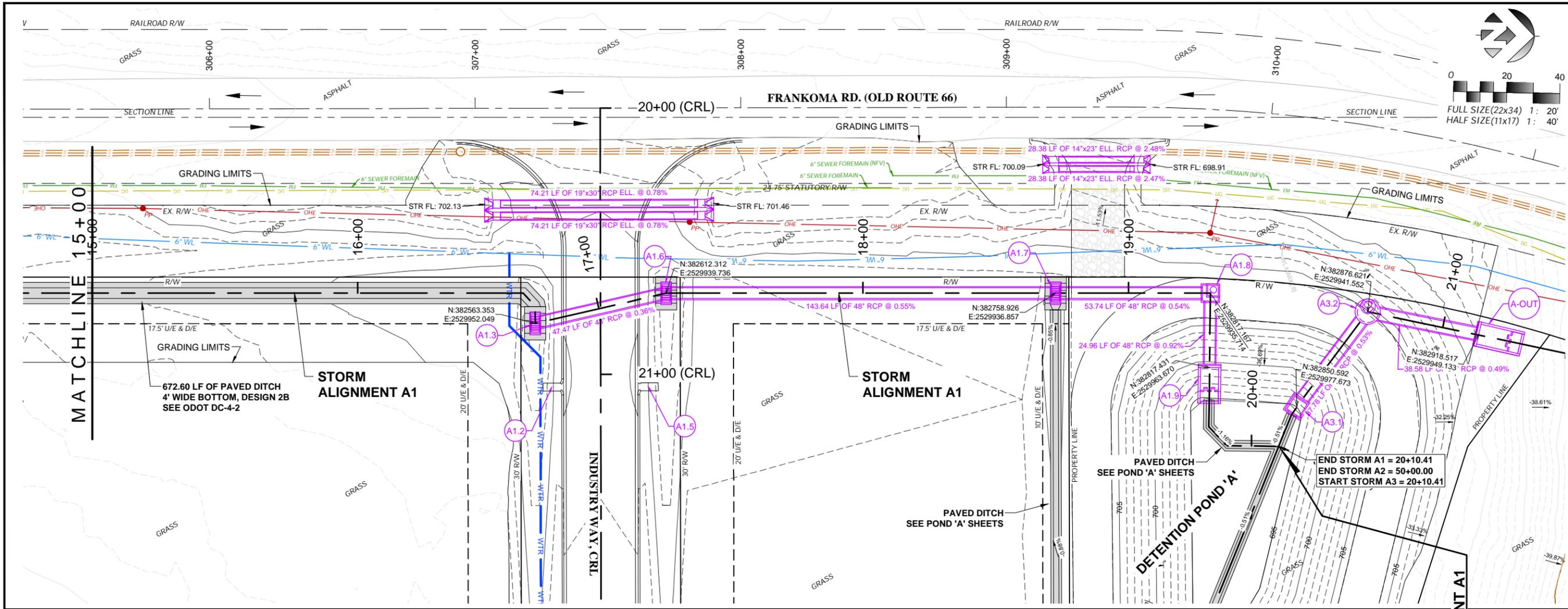


**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
PLAN & PROFILE  
STORM A1  
STA 10+00 TO 15+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	25 OF 107
DRAWING:	D01



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**KE** KEITHLINE ENGINEERING GROUP  
 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_

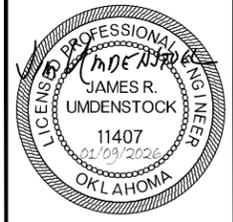
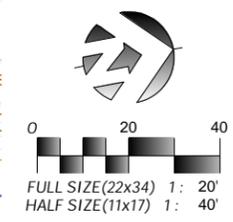
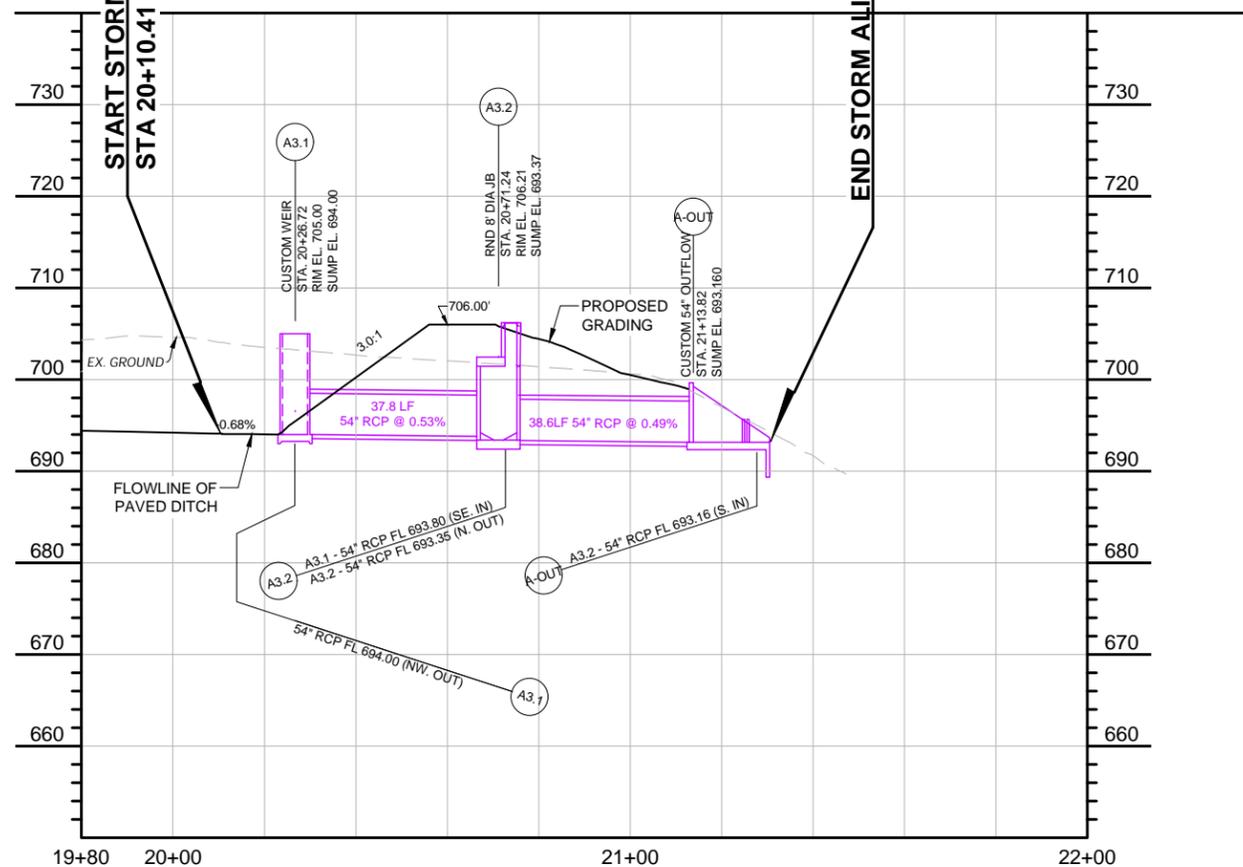
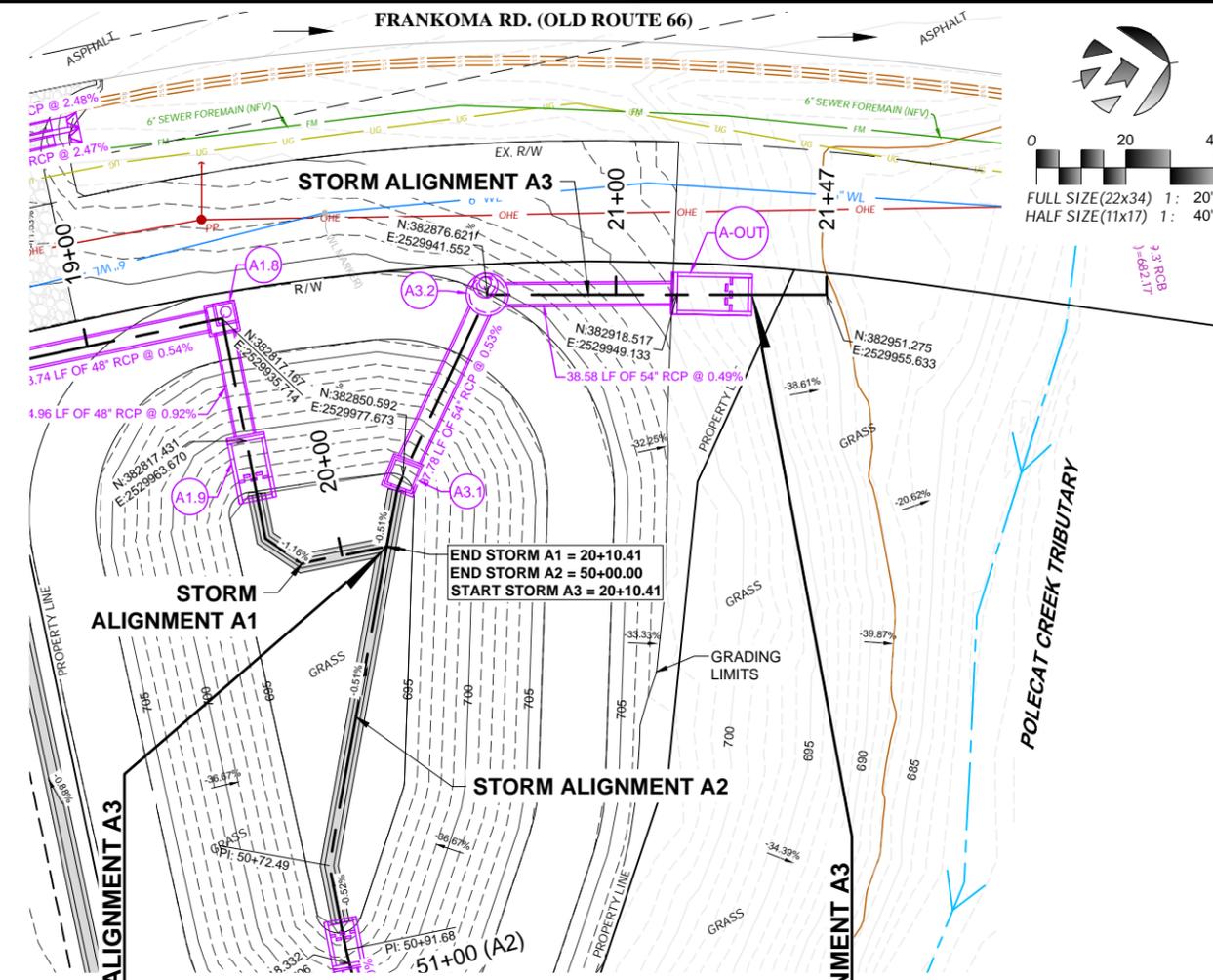


**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

**PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 STORM A1  
 STA 15+00 TO 20+11**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	26 OF 107
DRAWING:	D02

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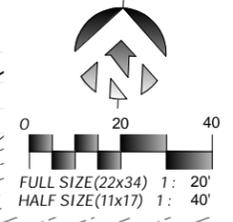
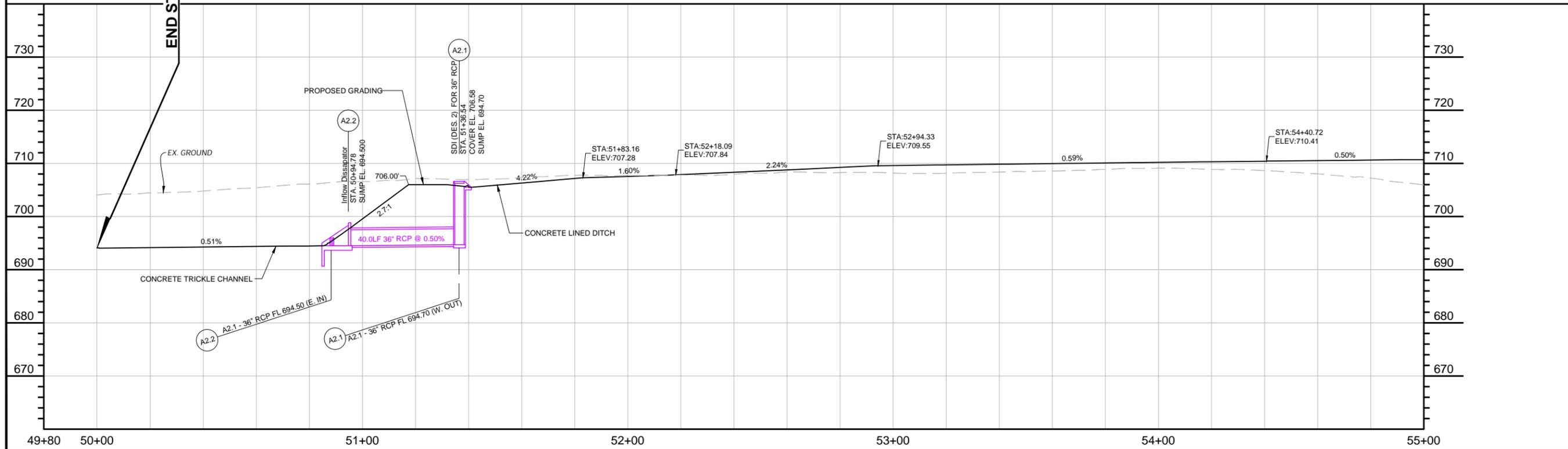
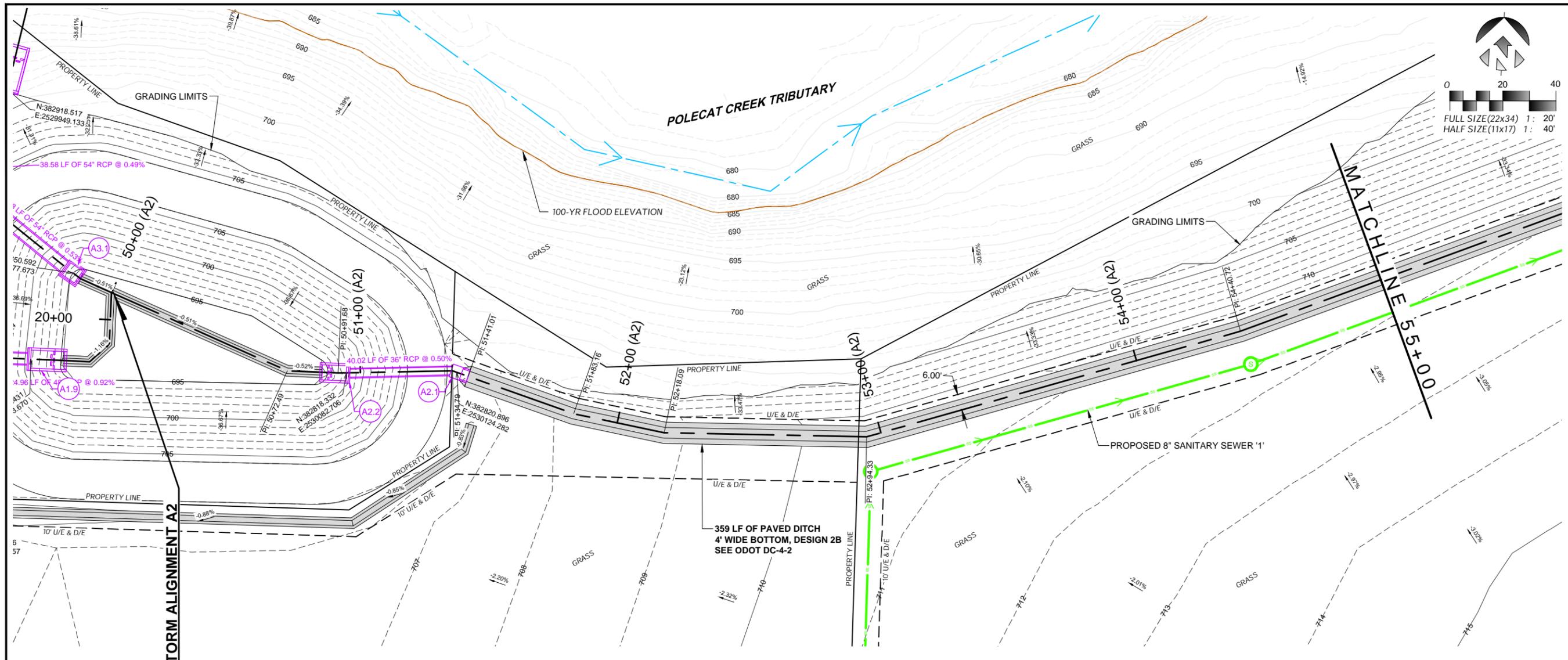


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 STORM A3  
 STA 20+11 TO 21+40

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	27 OF 107
DRAWING:	D03

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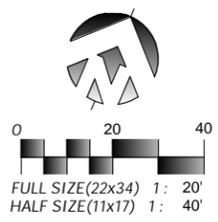
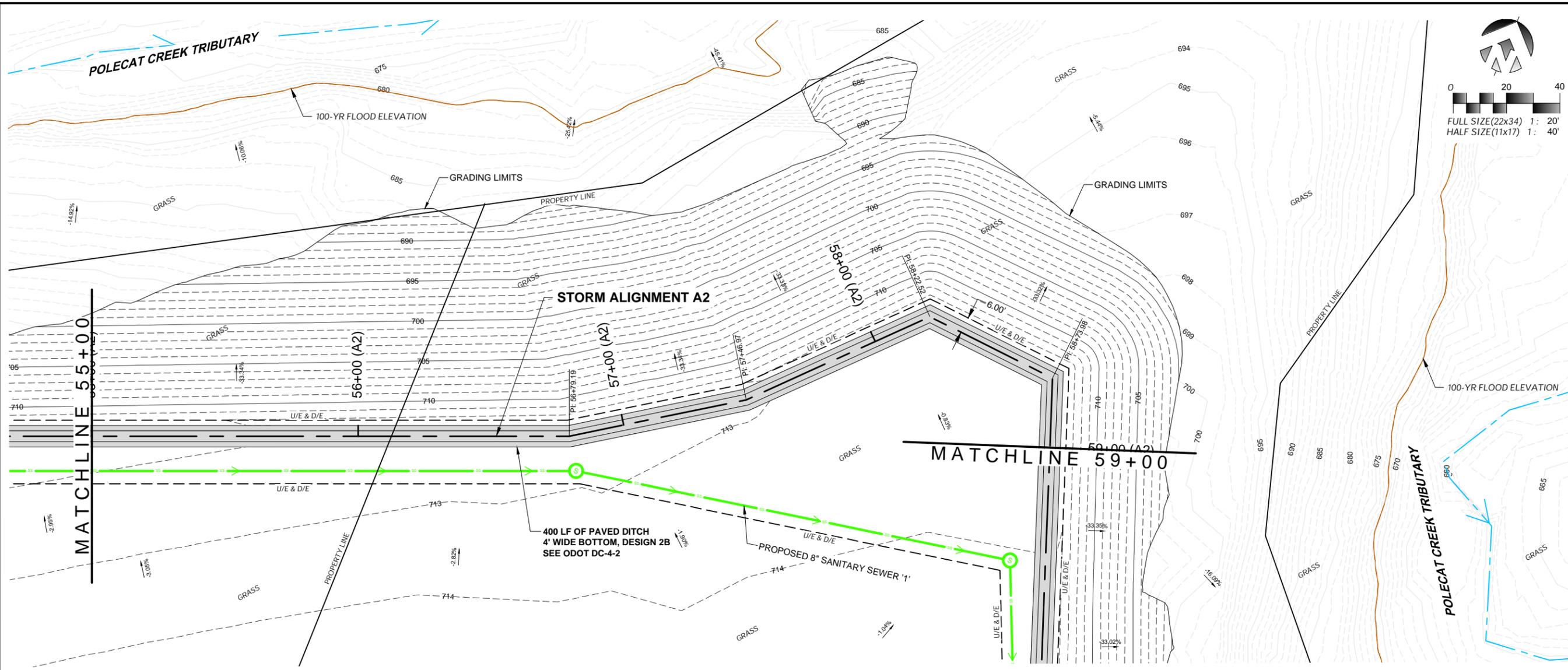
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
PLAN & PROFILE  
STORM A2  
STA 50+00 TO 55+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
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DATE	JANUARY 9, 2026
SHEET:	28 OF 107
DRAWING:	D04

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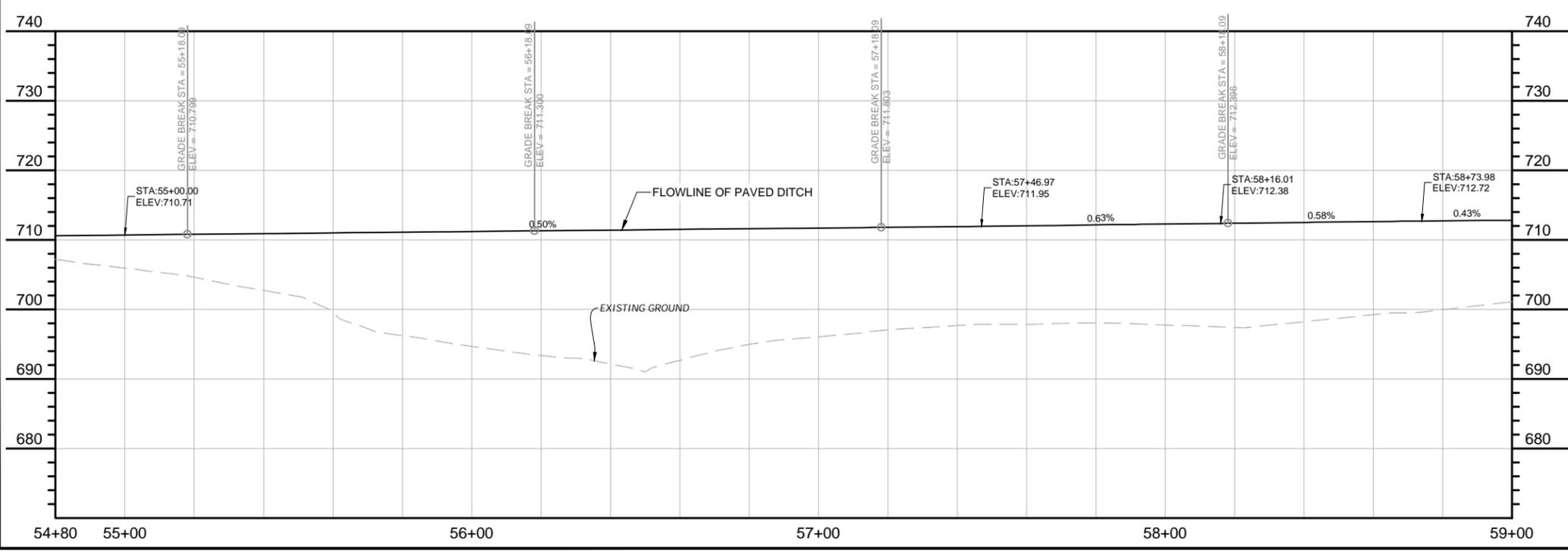


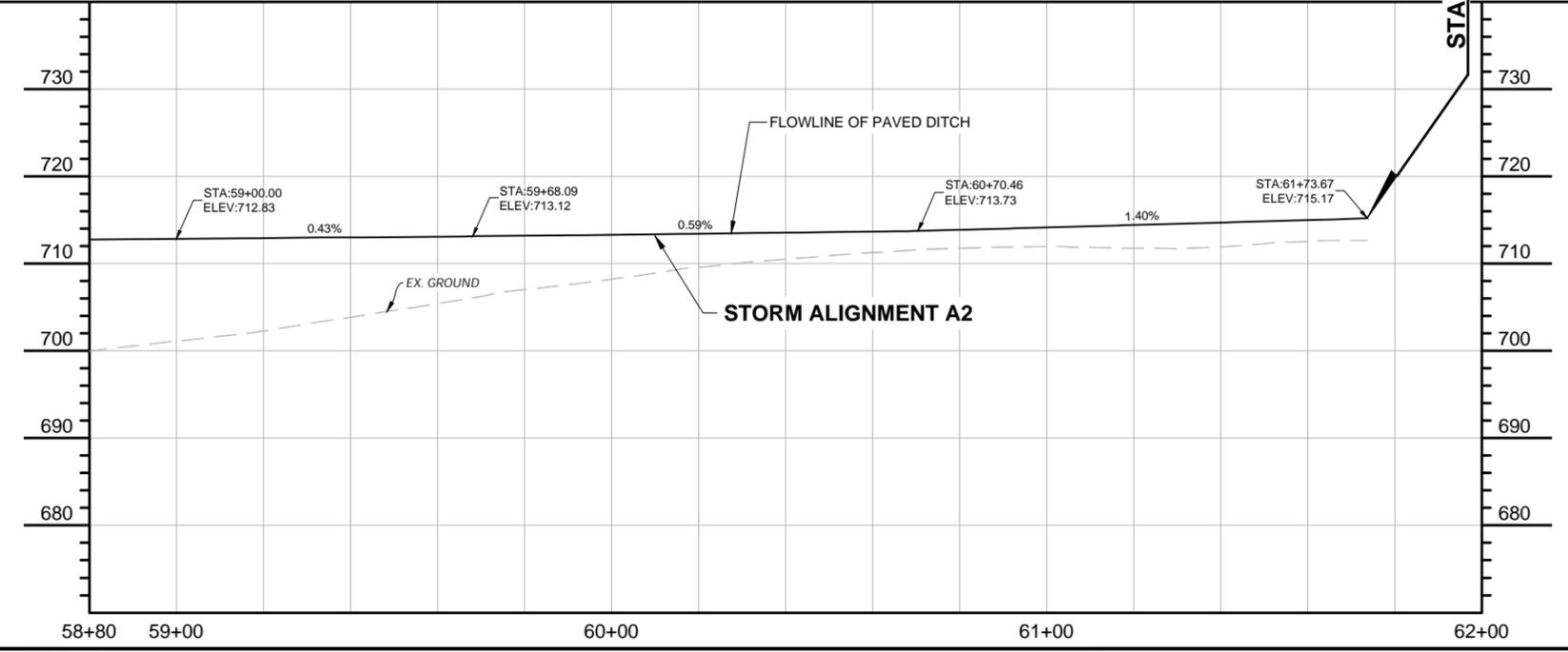
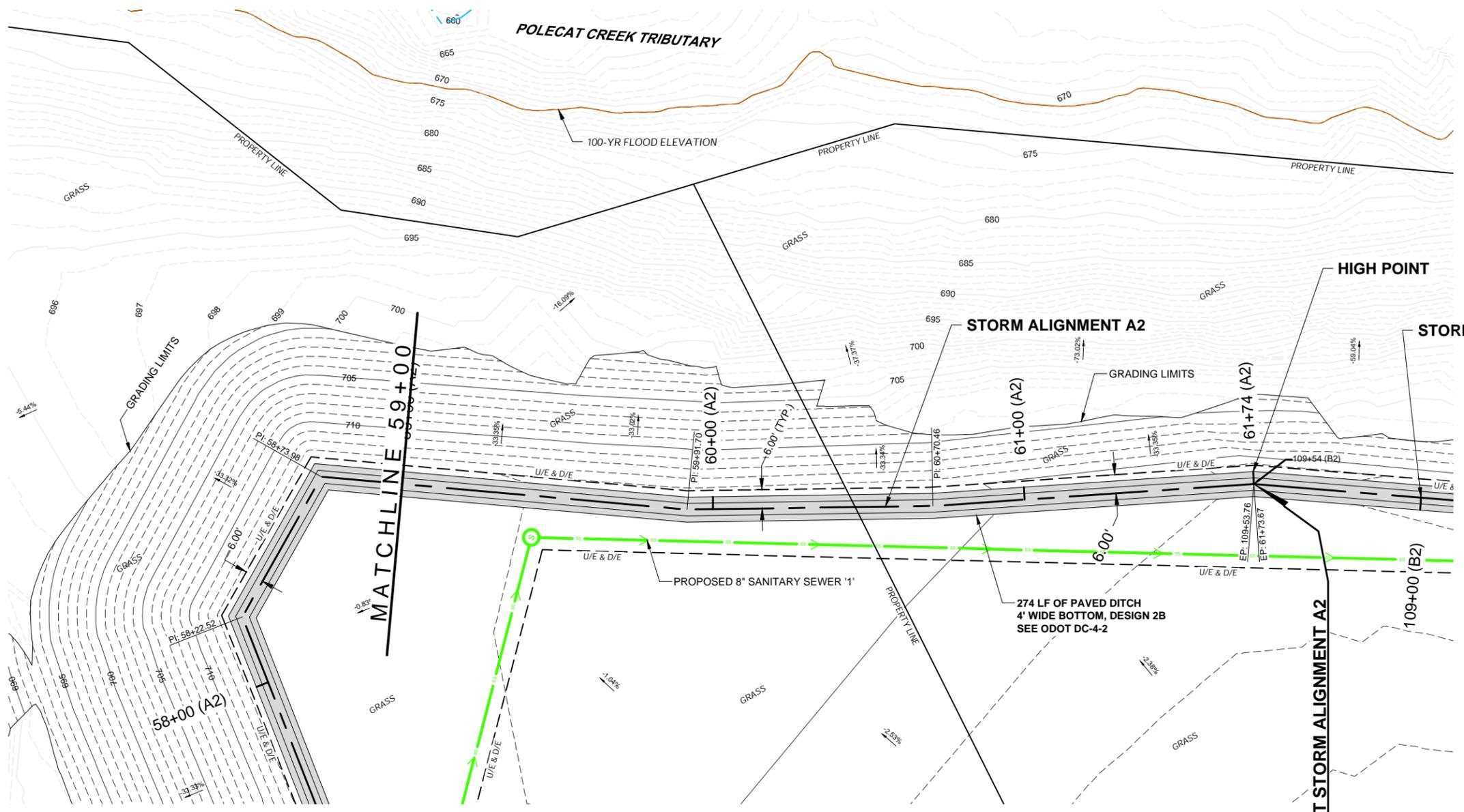
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PLAN & PROFILE  
STORM A2  
STA 55+00 TO 59+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
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DRAWING:	D05





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**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

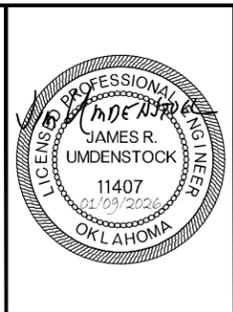
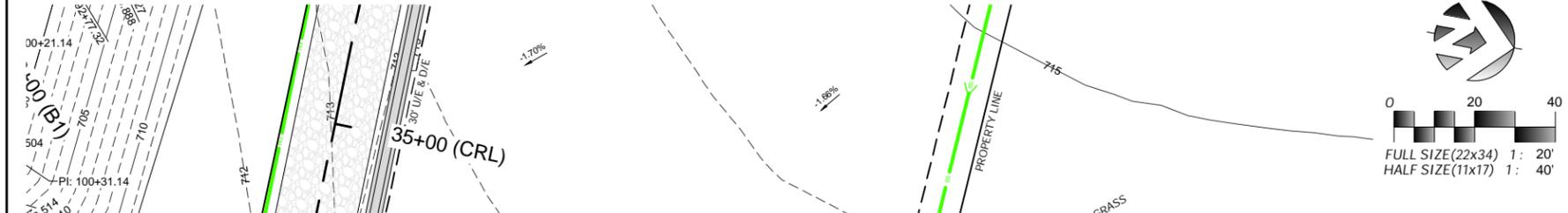
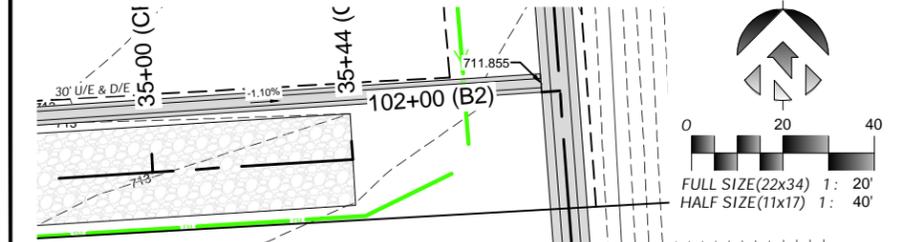
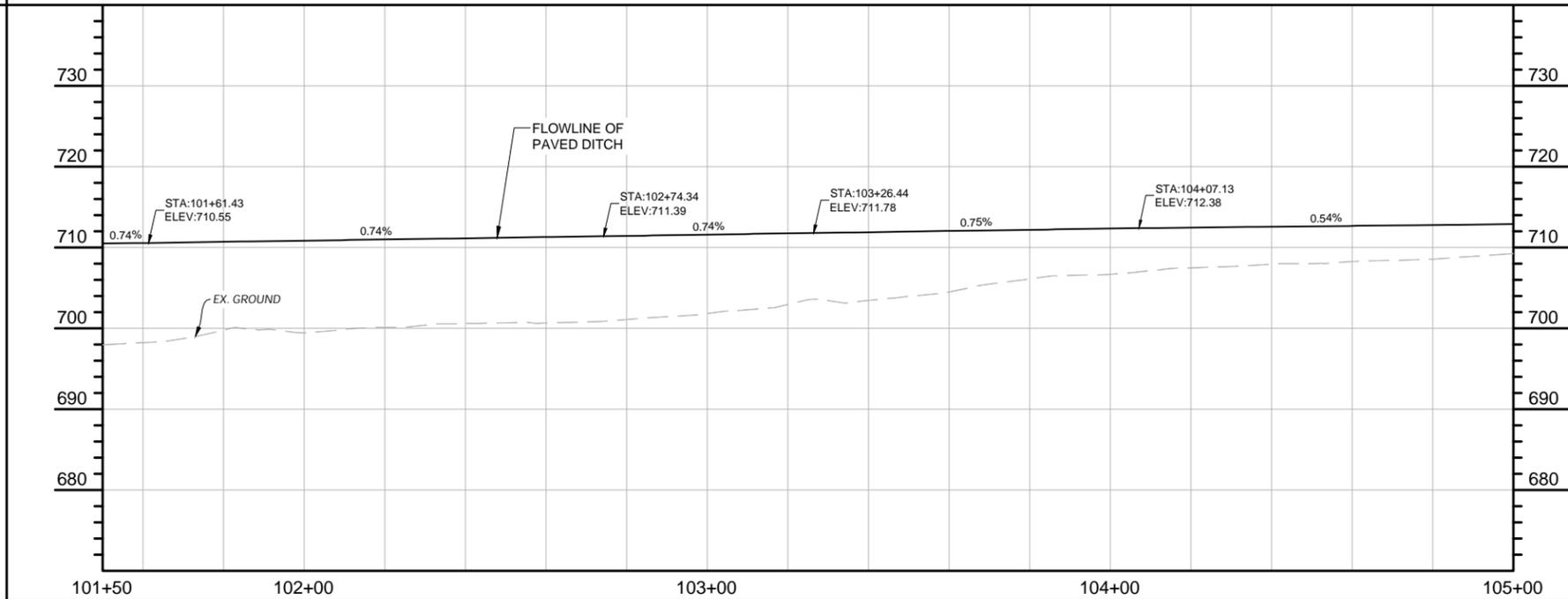
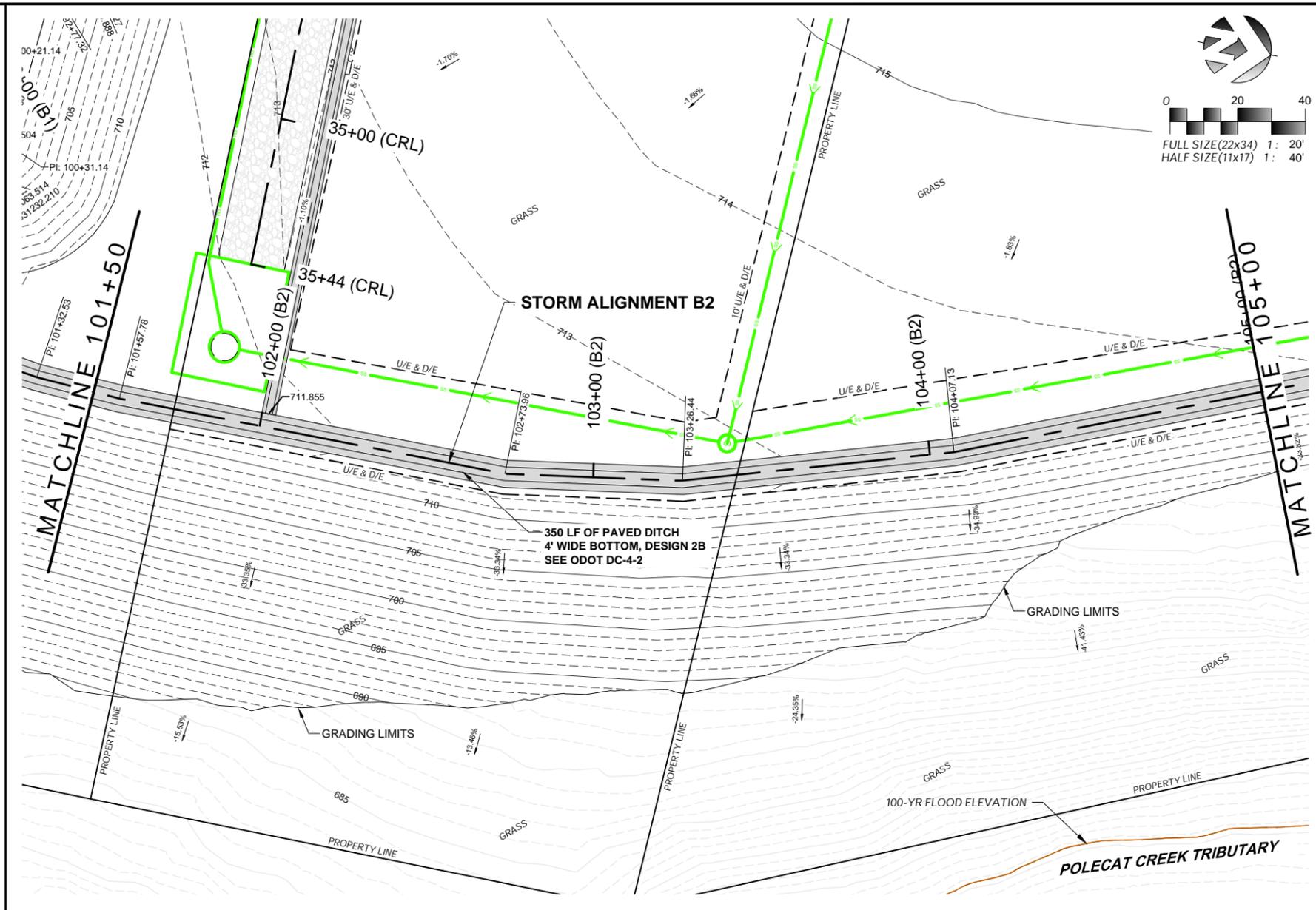
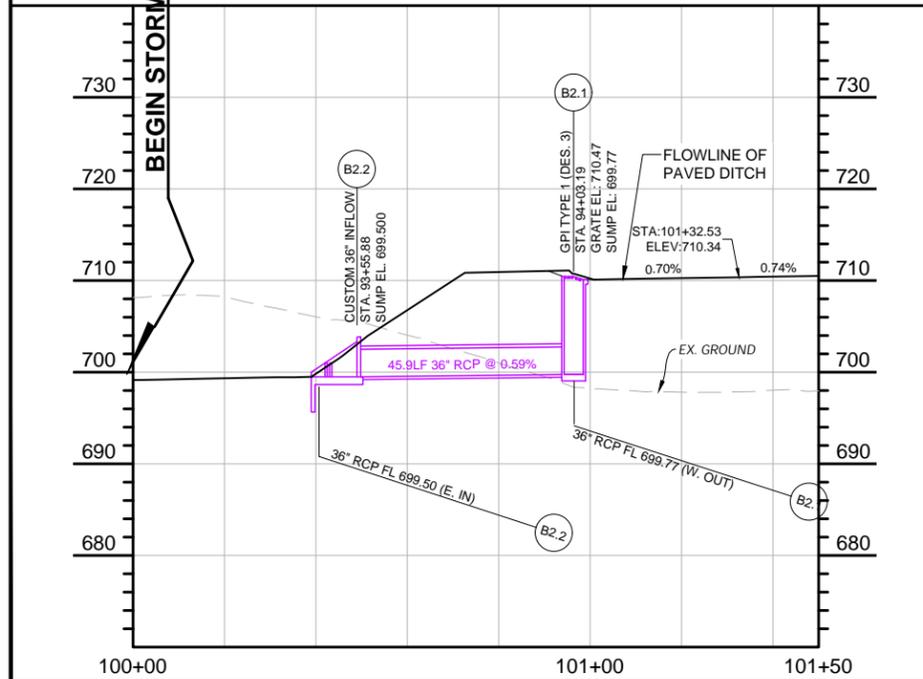
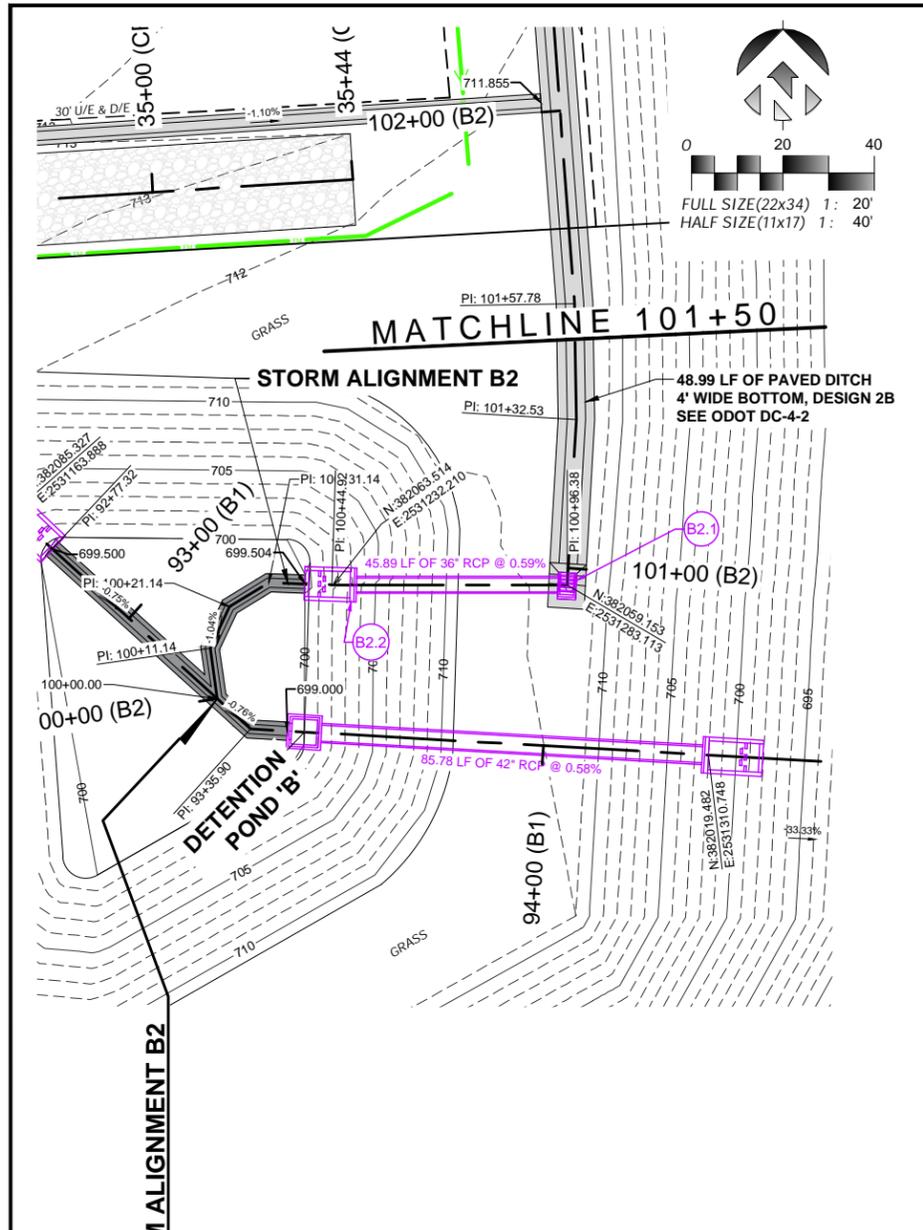
**PHASE 1 (BASE BID)  
PLAN & PROFILE  
STORM A2  
STA 59+00 TO 61+74**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	30 OF 107
DRAWING:	D06

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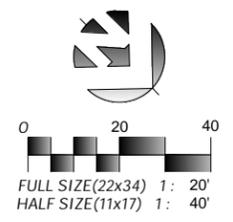
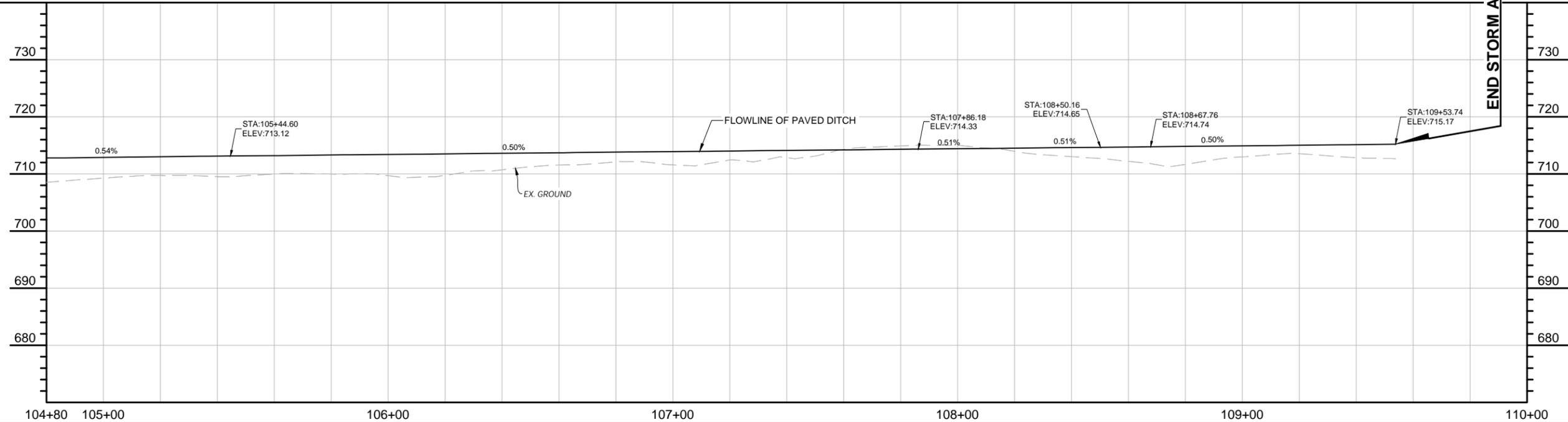
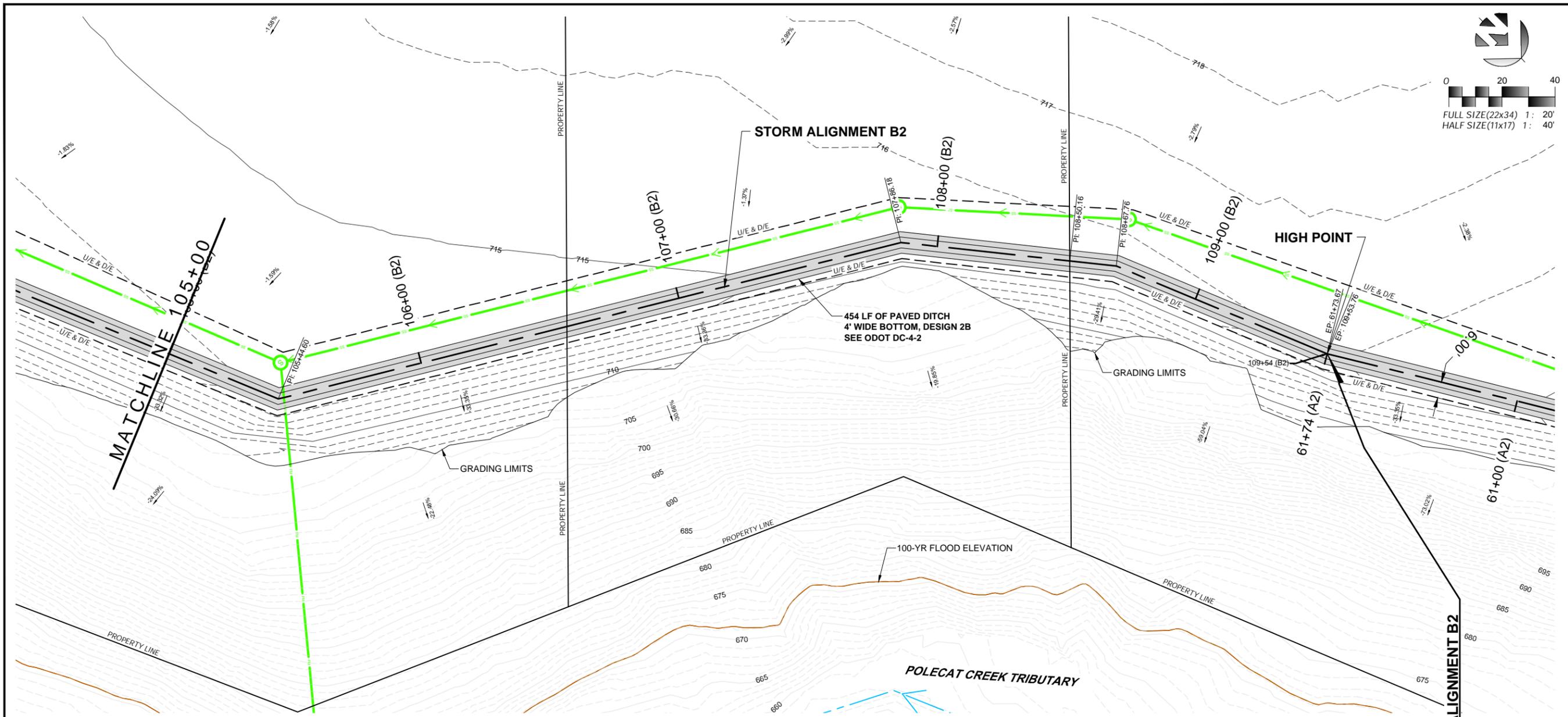


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 STORM B2  
 STA 100+00 TO 105+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	32 OF 107
DRAWING:	D08

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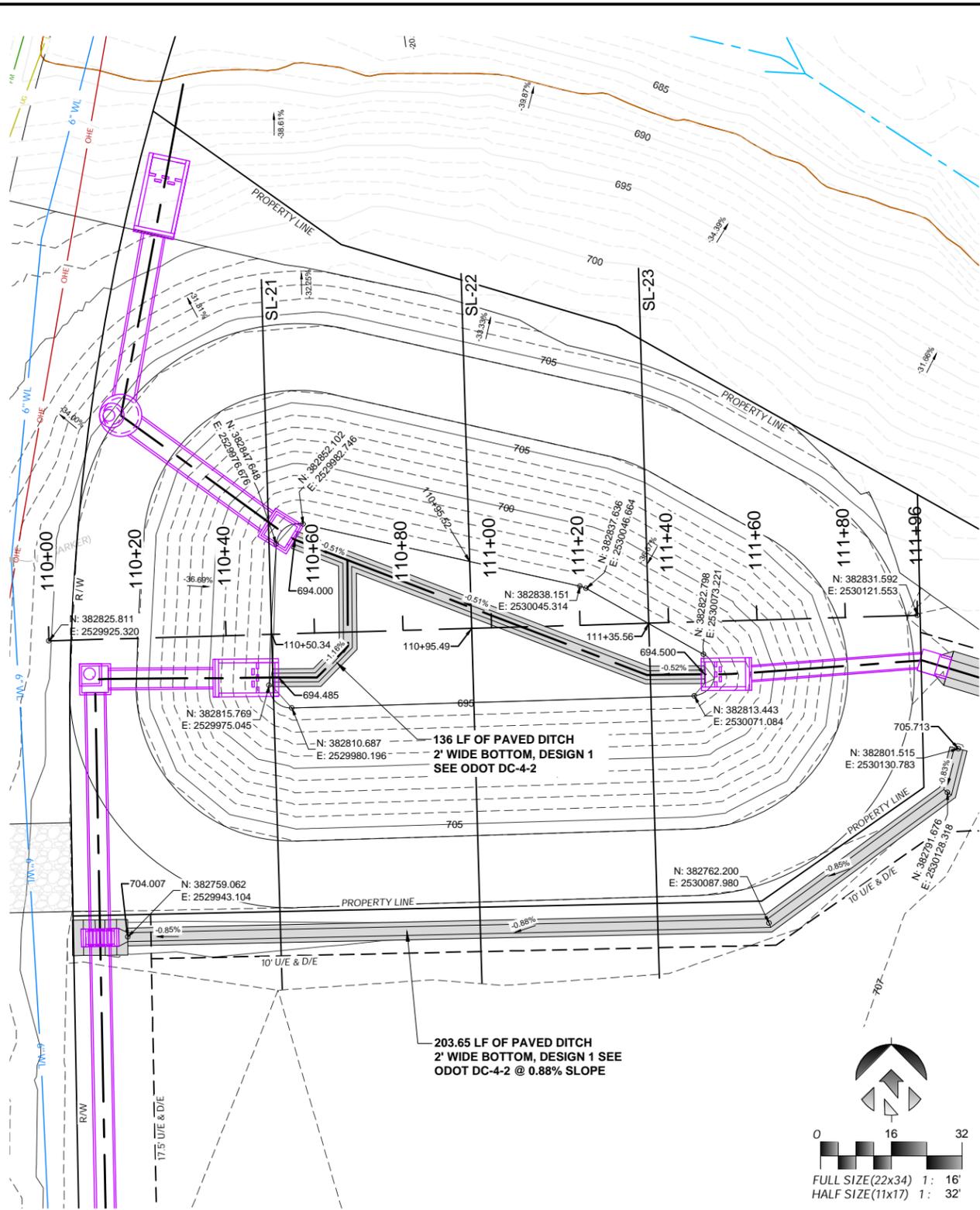


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

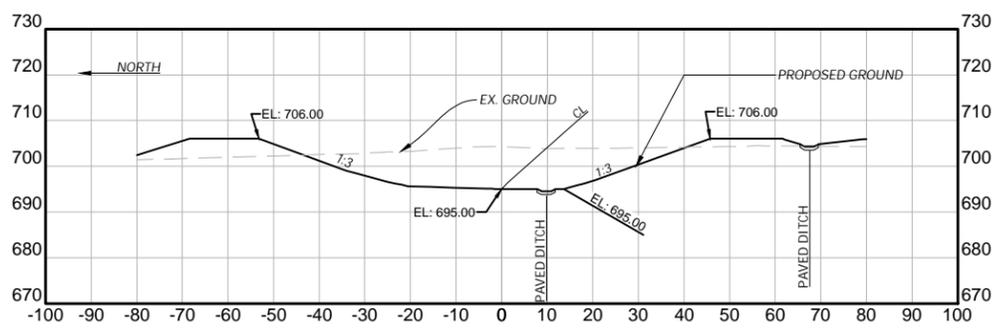
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 PLAN & PROFILE  
 STORM B2  
 STA 105+00 TO 109+54

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	33 OF 107
DRAWING:	D09

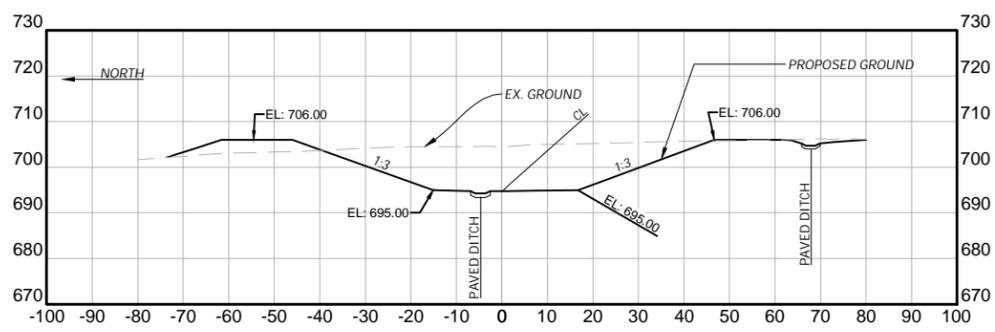
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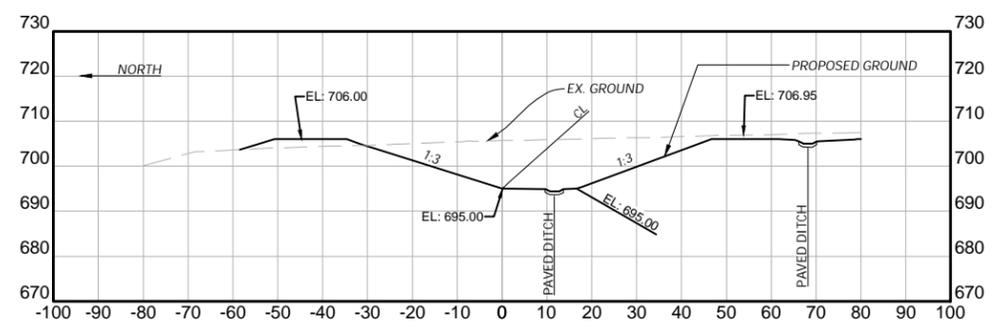
SL-21  
110+50.34



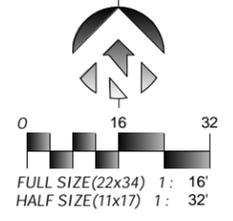
SL-22  
110+95.49



SL-23  
111+35.56



1 PHASE 1 - DETENTION POND 'A' - PLAN



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		REVISION	



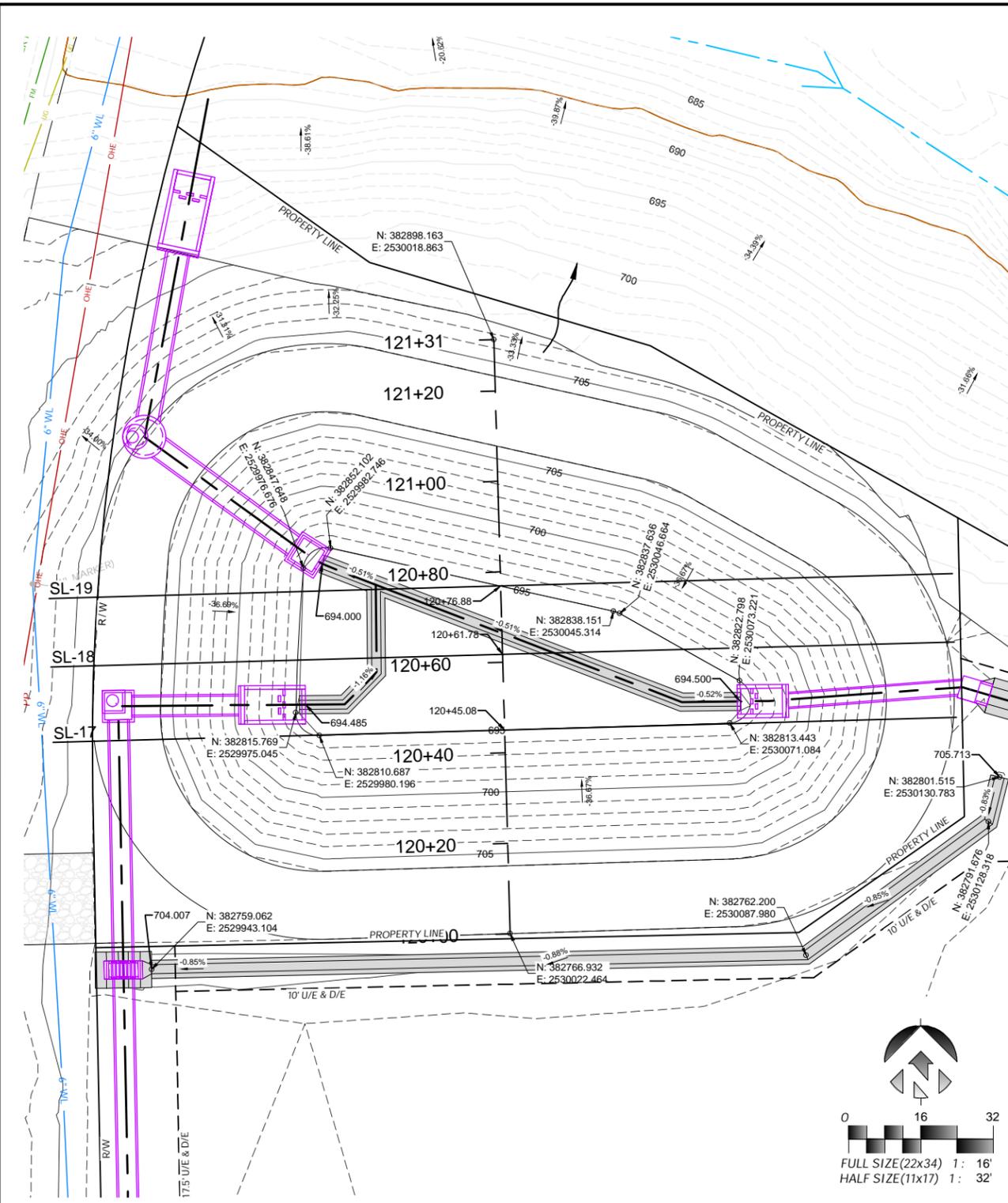
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

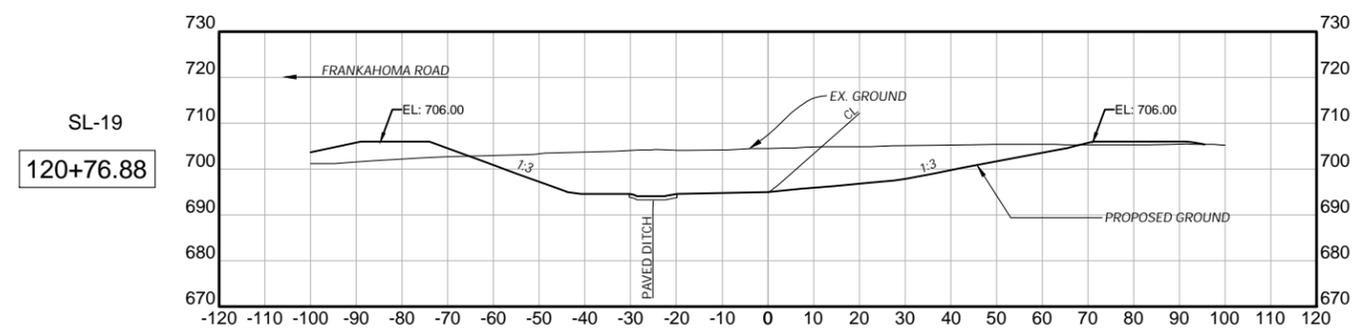
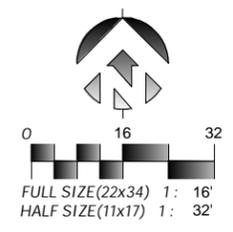
PHASE 1 (BASE BID)  
POND 'A'  
CROSS SECTIONS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	34 OF 107
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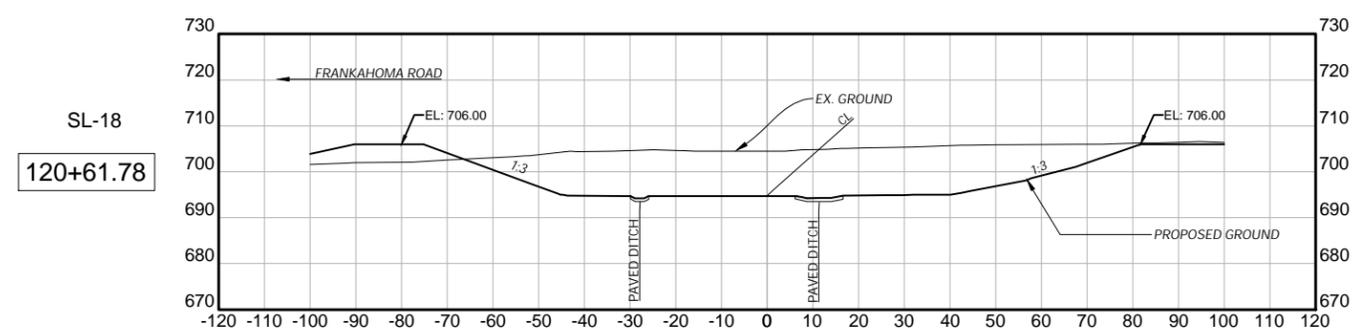
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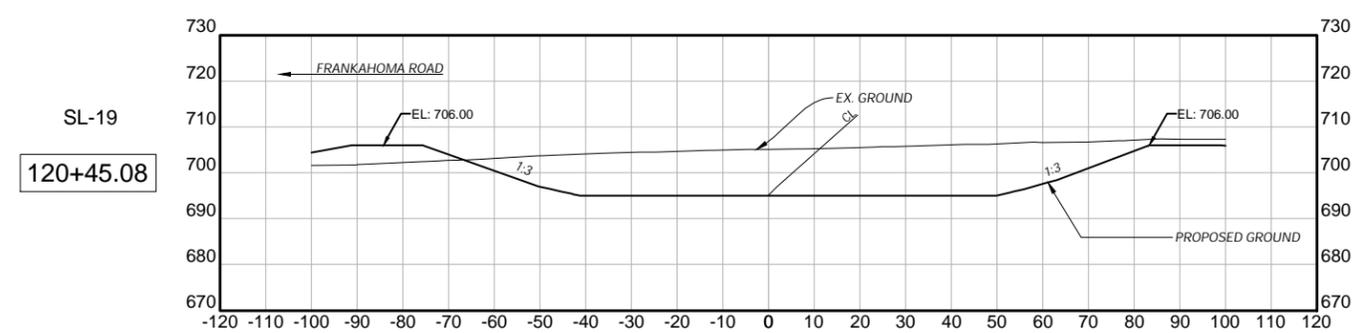
1 PHASE 1 - DETENTION POND 'A' - PLAN



SL-19  
120+76.88



SL-18  
120+61.78



SL-19  
120+45.08

2 PHASE 1 - DETENTION POND 'A' - EAST WEST SECTIONS



Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP	DATE
8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971	BY
REVISION	DATE



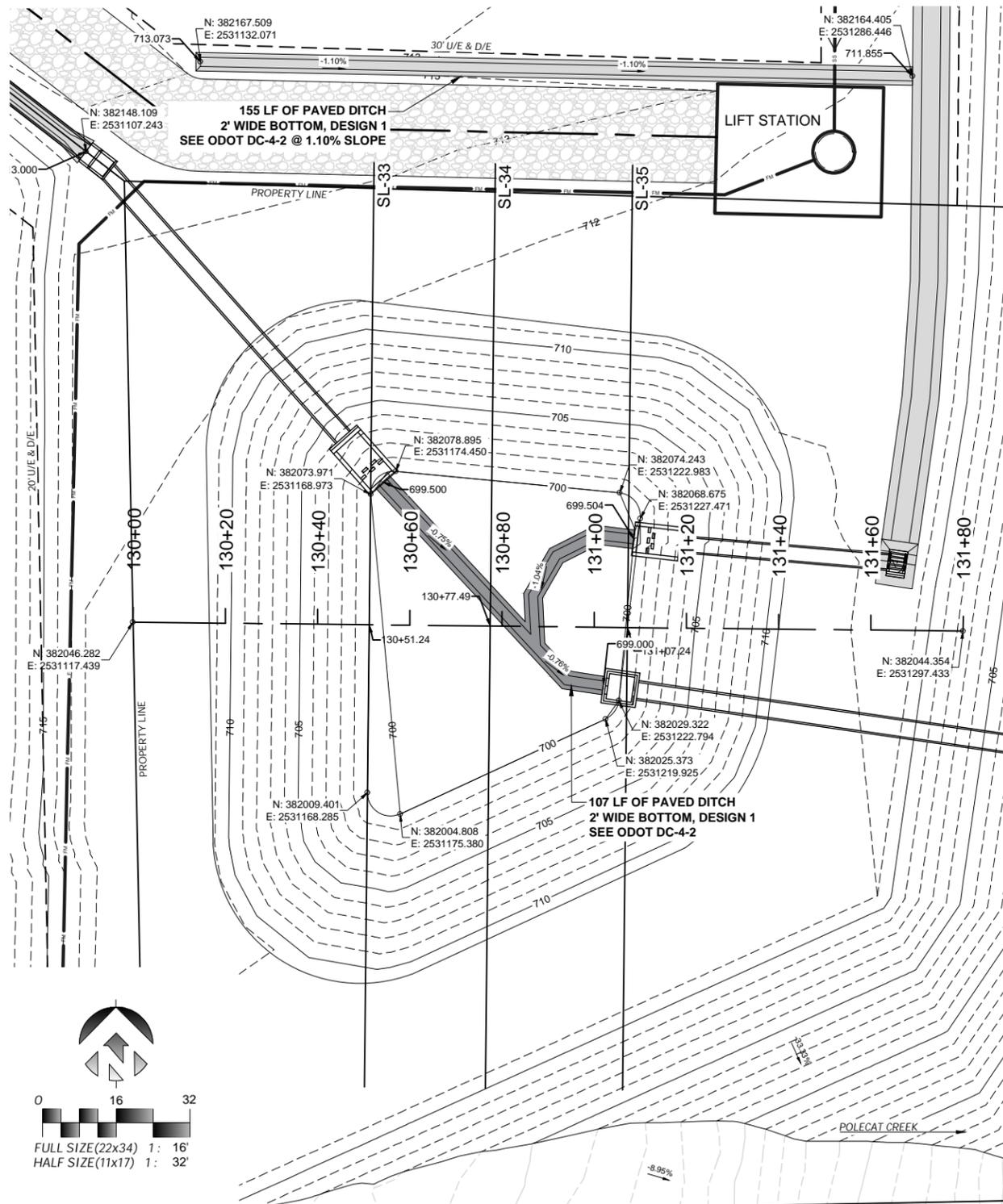
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
POND 'A'  
CROSS SECTIONS

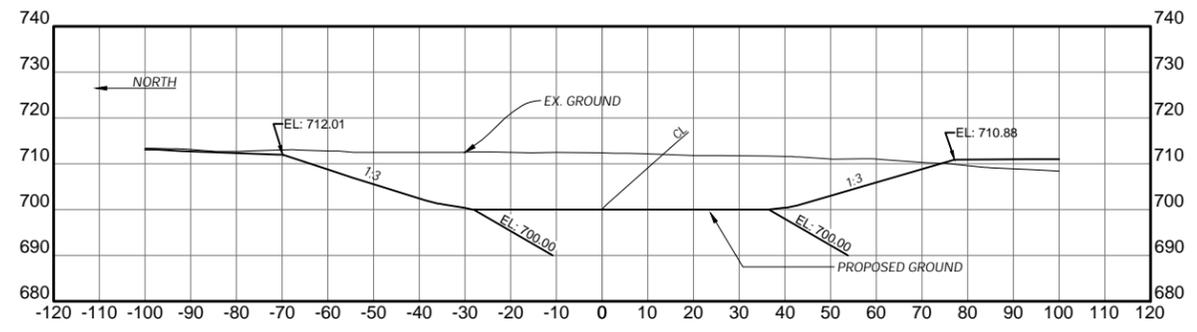
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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DATE	JANUARY 9, 2026
SHEET:	35 OF 107
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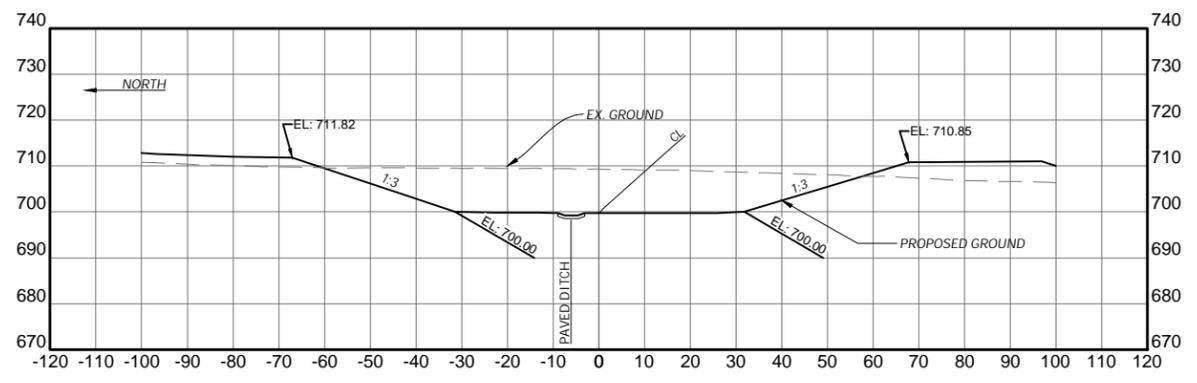


1 PHASE 1 - DETENTION POND 'B' - PLAN

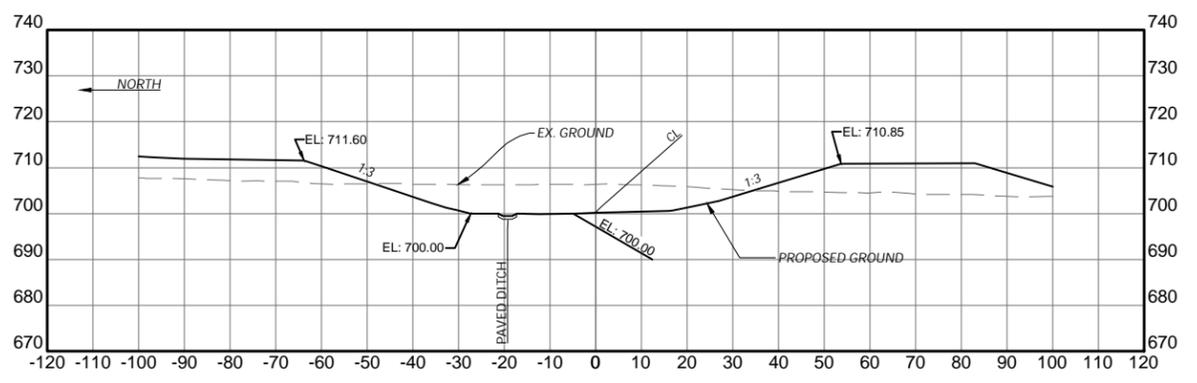
SL-33  
130+51.24



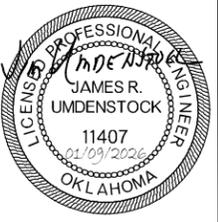
SL-34  
130+77.49



SL-35  
131+07.24



2 PHASE 1 - DETENTION POND 'B' - NORTH SOUTH SECTIONS



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REVISION	DATE



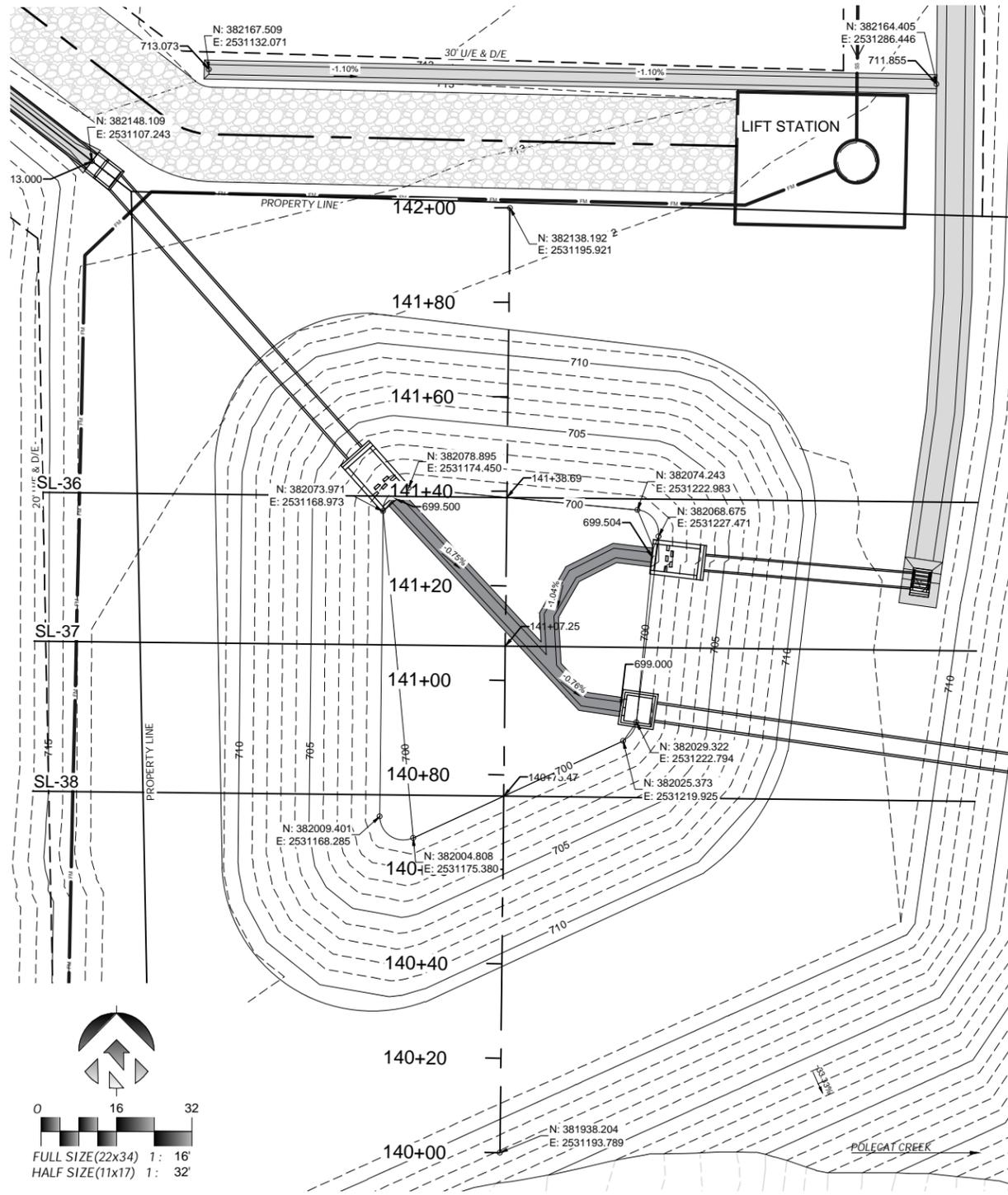
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
POND 'B'  
CROSS SECTIONS

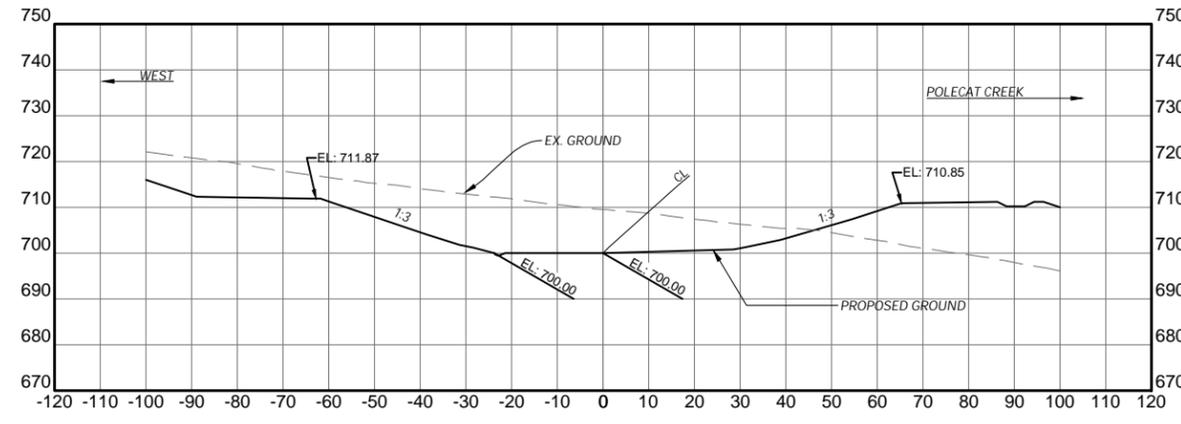
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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DATE:	JANUARY 9, 2026
SHEET:	36 OF 107
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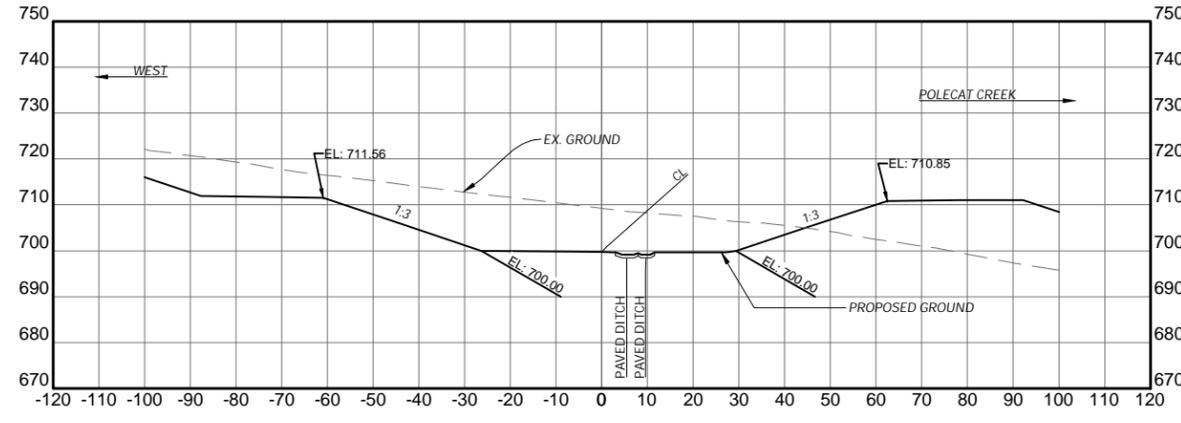


1 PHASE 1 - DETENTION POND 'B' - PLAN

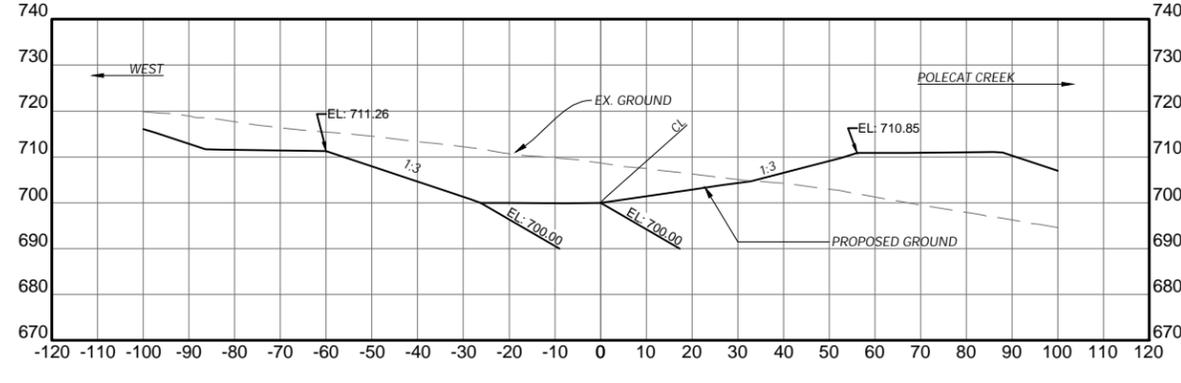
SL-36  
141+38.69



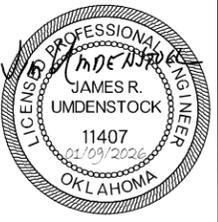
SL-37  
141+07.25



SL-38  
140+75.47



2 PHASE 1 - DETENTION POND 'B' - EAST WEST SECTIONS



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8554 E. 101ST ST., STE. C TULSA, OKLAHOMA 74133 (918) 369-7911



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 POND 'B'  
 CROSS SECTIONS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	37 OF 107
DRAWING:	D13

# STORM WATER MANAGEMENT PLAN



## SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: PHASE 1 PROPERTY BOUNDARY AND FRANKOMA RD. RIGHT-OF-WAY.

---

PROJECT DESCRIPTION: GRADE LOTS TO FLOW TO DETENTION PONDS, CONSTRUCT 1,153 LF OF ROADWAY, INSTALL WATERLINE, SANITARY SEWER, AND FORCE MAIN.

---

- SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: \_\_\_\_\_
1. - INSTALL EROSION CONTROL PERIMETER MEASURES
  2. - CONSTRUCT DETENTION POND AND DRAINAGE DITCHES
  3. - GRADE LOTS
  4. - ESTABLISH PERMANENT EROSION CONTROL MEASURES
- 

SOIL TYPE: SEE PREDEVELOPMENT SOIL TYPE SHEET

TOTAL AREA OF THE CONSTRUCTION SITE: 20.85 AC.

ESTIMATED AREA TO BE DISTURBED: 20.85 AC.

OFFSITE AREA TO BE DISTURBED: 0 AC.  
(FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0 AC.

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 1.43 AC.

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: N/A

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36.034979, -96.099289

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: POLECAT CREEK

SENSITIVE WATERS OR WATERSHEDS: YES  NO

303(d) IMPAIRED WATERS: YES  NO

IF YES, LIST IMPAIRMENT: \_\_\_\_\_

LOCATED IN A TMDL: YES  NO

LAKE THUNDERBIRD TMDL:  NO

MS4 ENTITY YES  NO

IF YES, LOCATION: \_\_\_\_\_

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

**SOIL STABILIZATION PRACTICES:**

- \_\_\_\_\_ TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- \_\_\_\_\_ VEGETATIVE MULCHING
- \_\_\_\_\_ SOIL RETENTION BLANKET
- PRESERVATION OF EXISTING VEGETATION

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

**STRUCTURAL PRACTICES:**

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

**OFFSITE VEHICLE TRACKING:**

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

**NOTES:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

**MAINTENANCE AND INSPECTION:**

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

**WASTE MATERIALS:**

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

**HAZARDOUS MATERIALS:**

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

**GENERAL NOTES:**

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

**THE FOLLOWING SECTIONS OF THE 2009 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 AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL

**IN ADDITION:**

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

Plans and Estimates Prepared by:

KE 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133	BY	DATE
	REVISION	



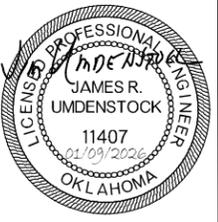
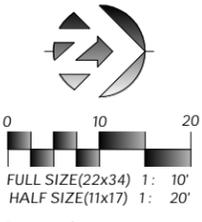
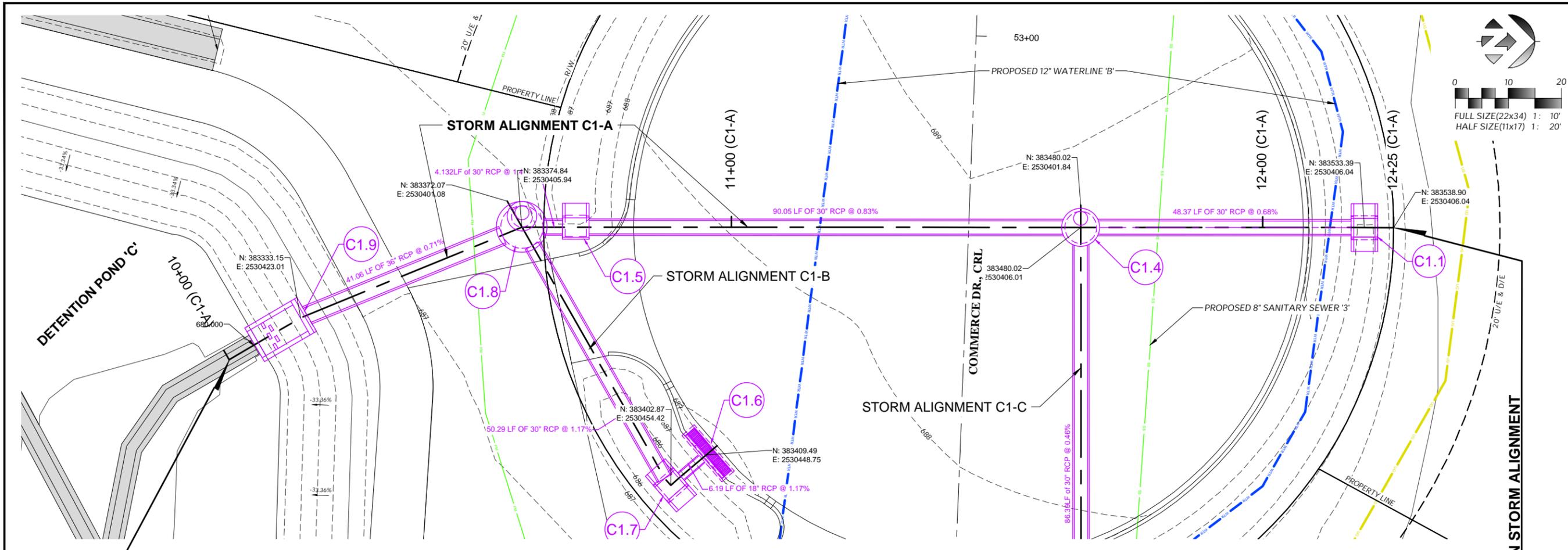
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 STORMWATER  
 MANAGEMENT  
 PLAN

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	38 OF 107
DRAWING:	D14

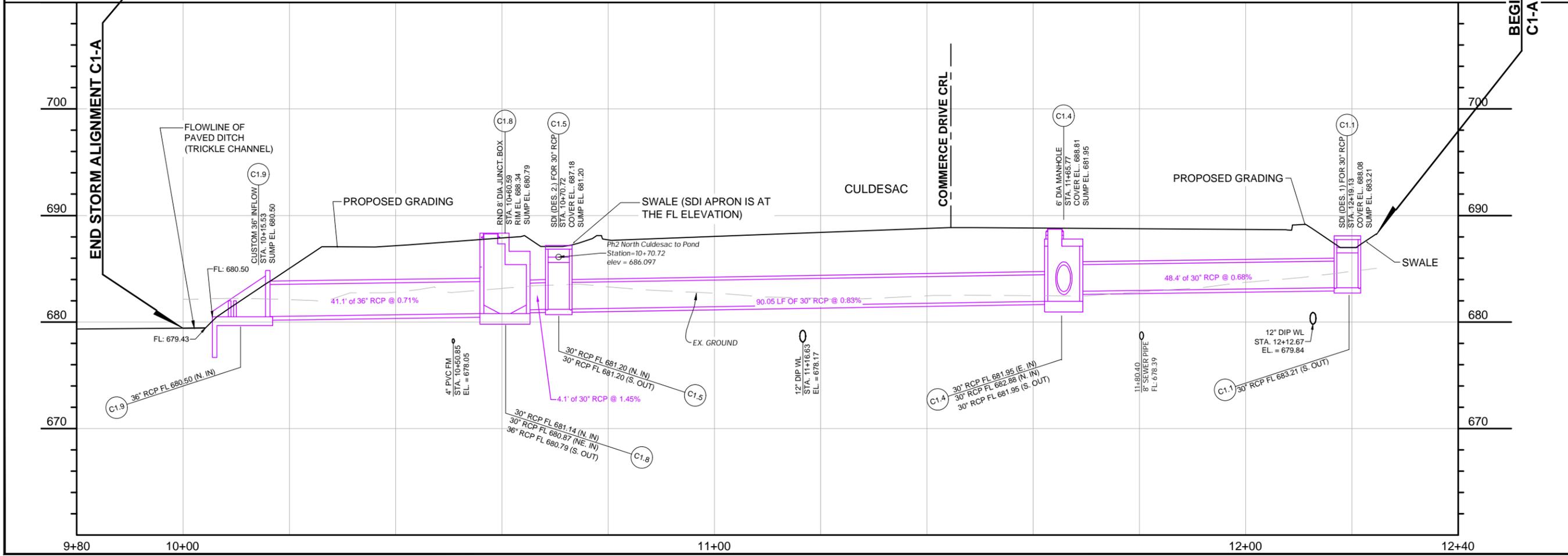
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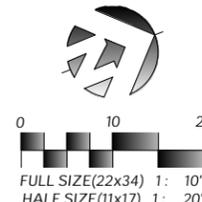
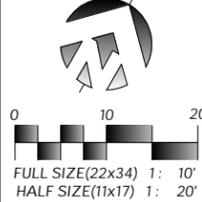
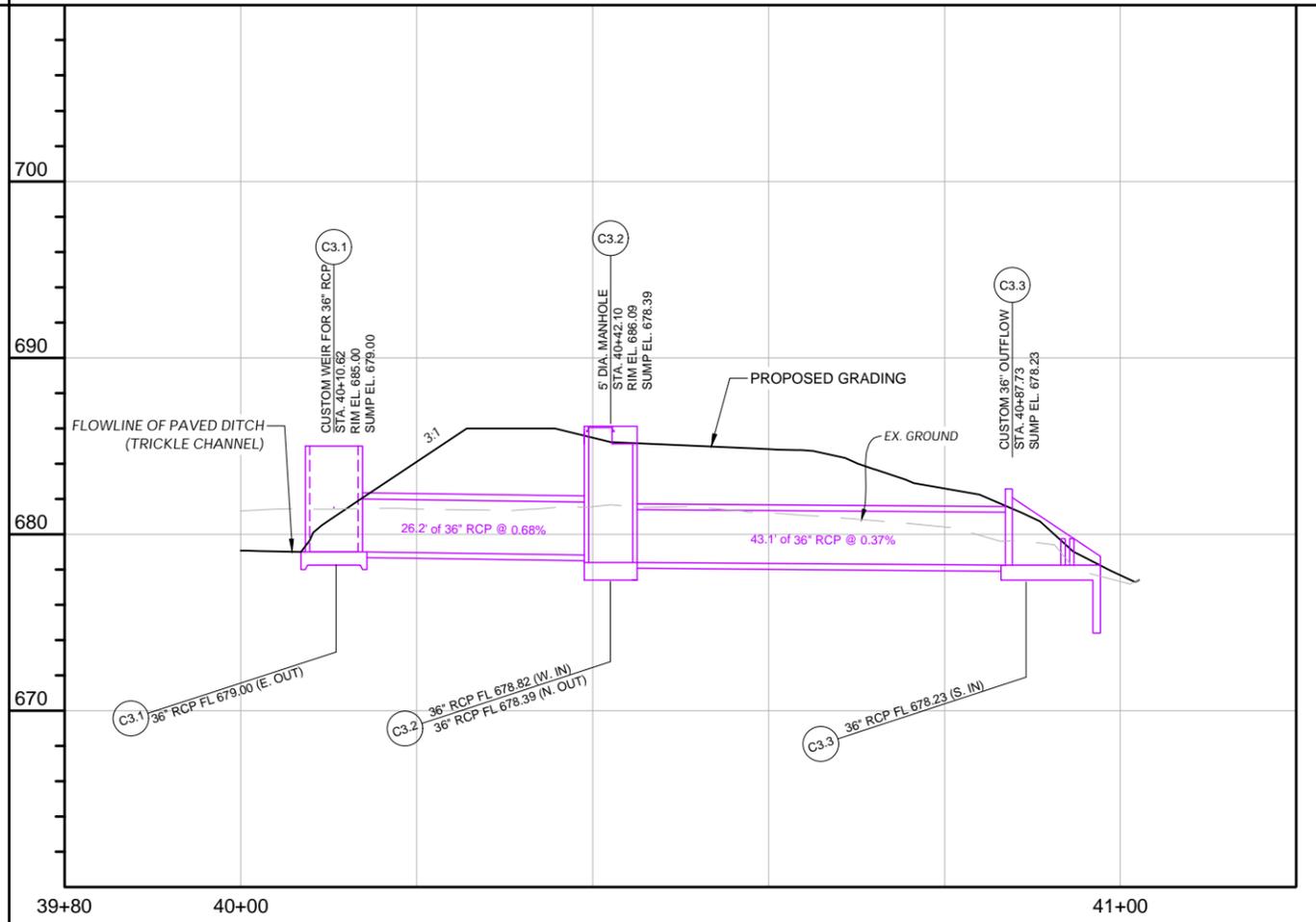
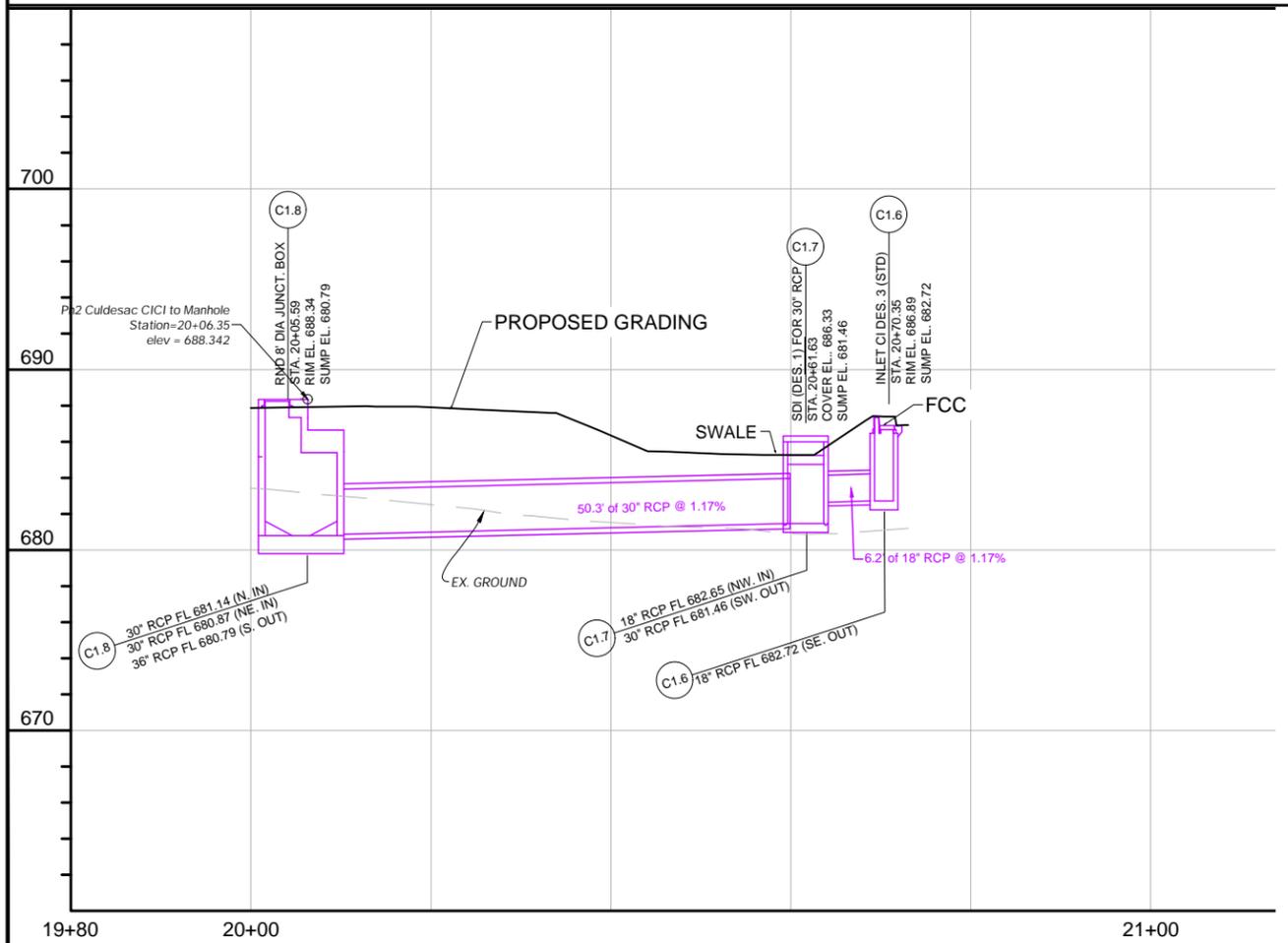
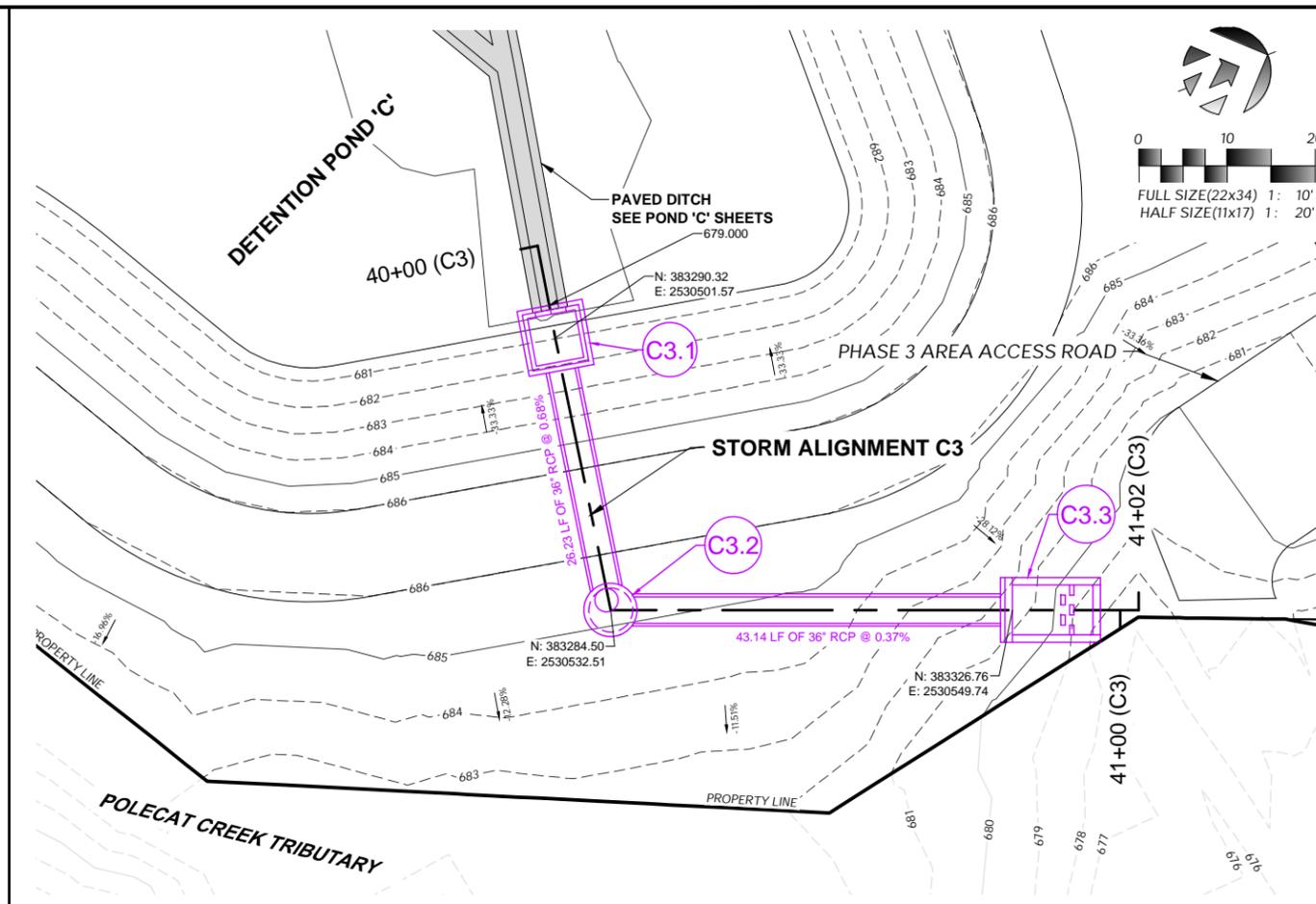
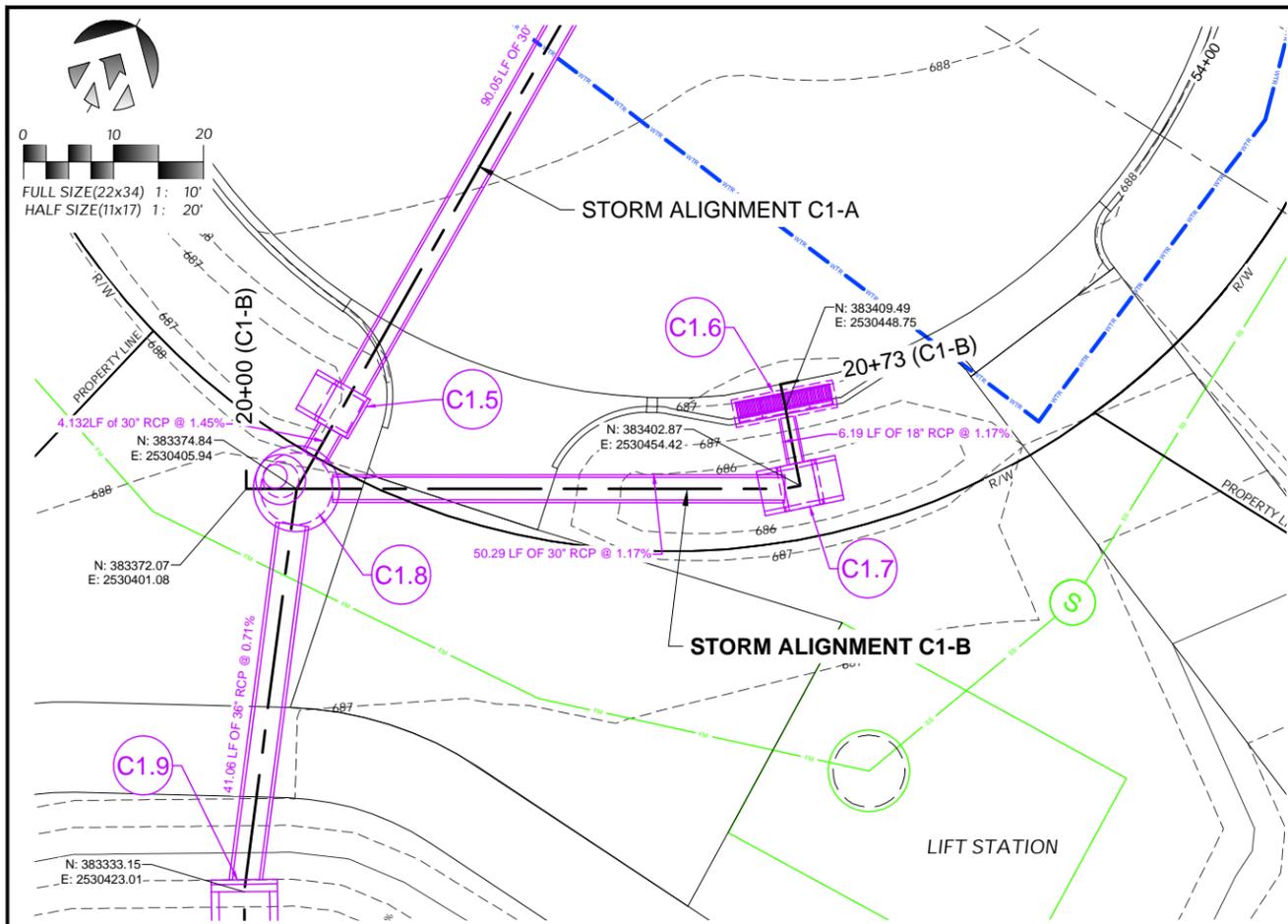
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT. 1)  
 PLAN & PROFILE  
 STORM C1-A  
 STA 10+00 TO 12+25

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	39 OF 107
DRAWING:	D20

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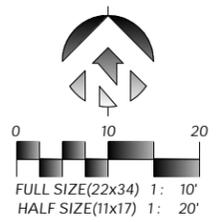
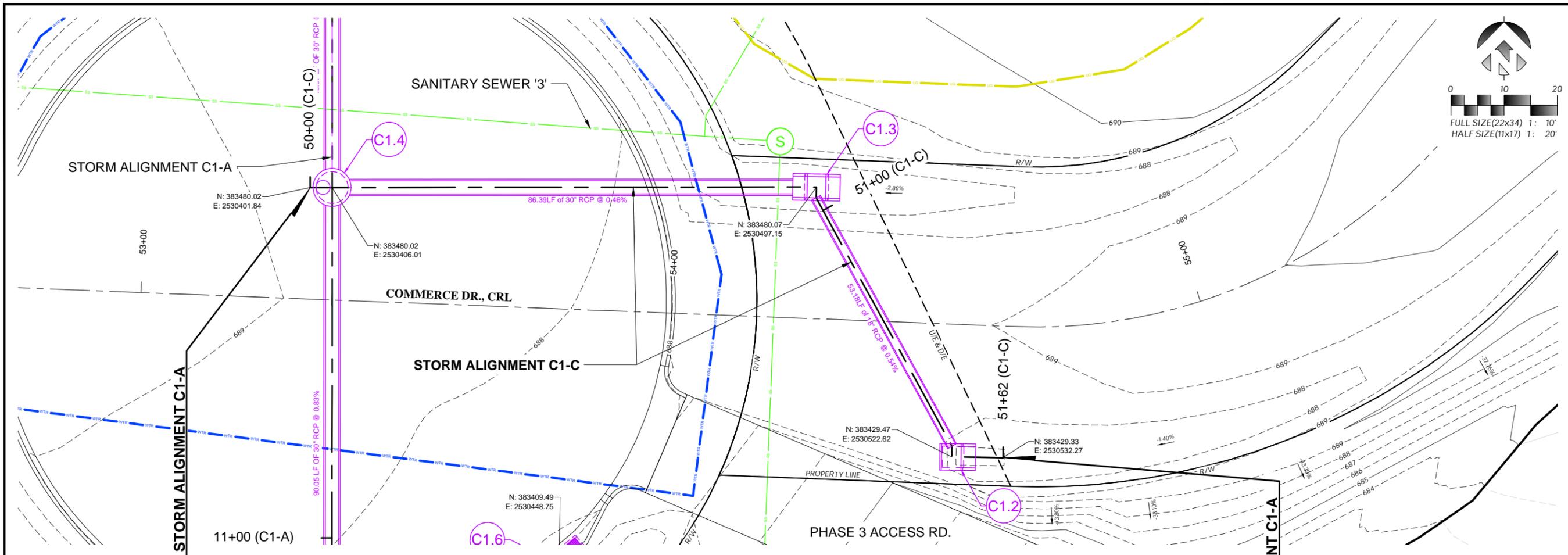
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 2 (ALT 1)  
PLAN & PROFILE  
STORM C1-B & C3**

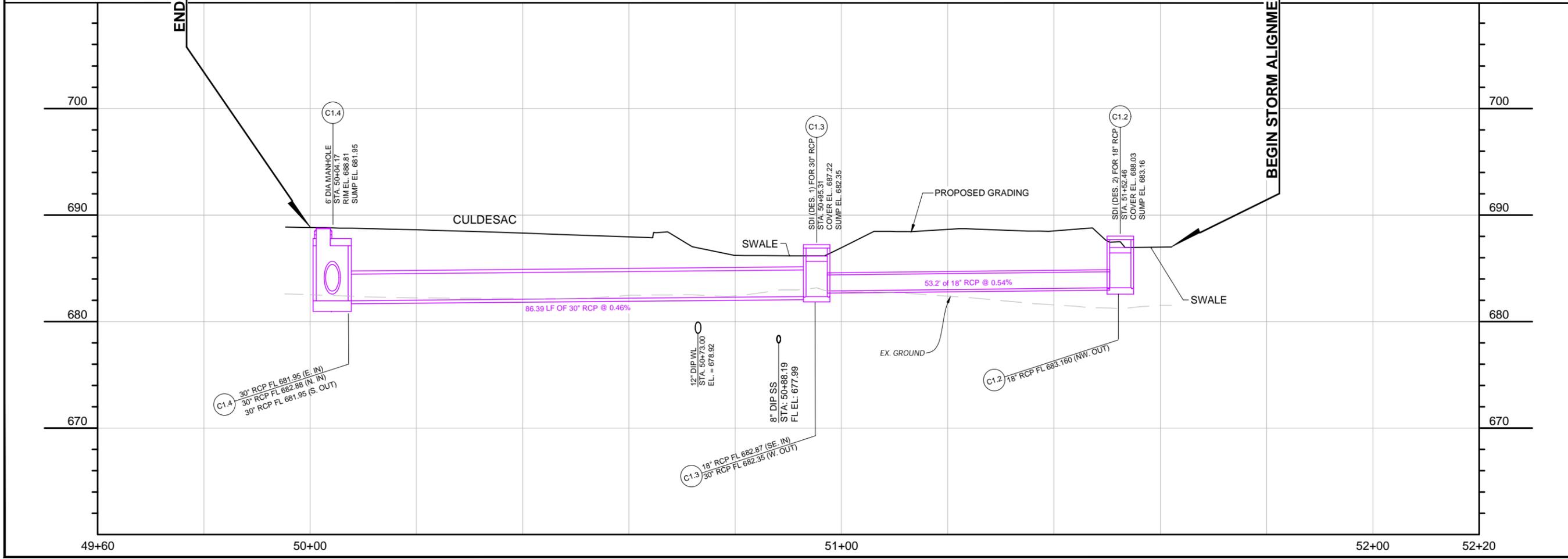
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DESIGNED	DAK, JRU, MAW (KEG)
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ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	40 OF 107
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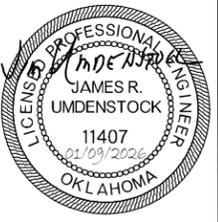
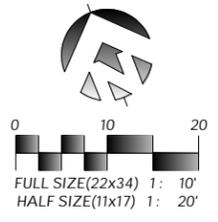
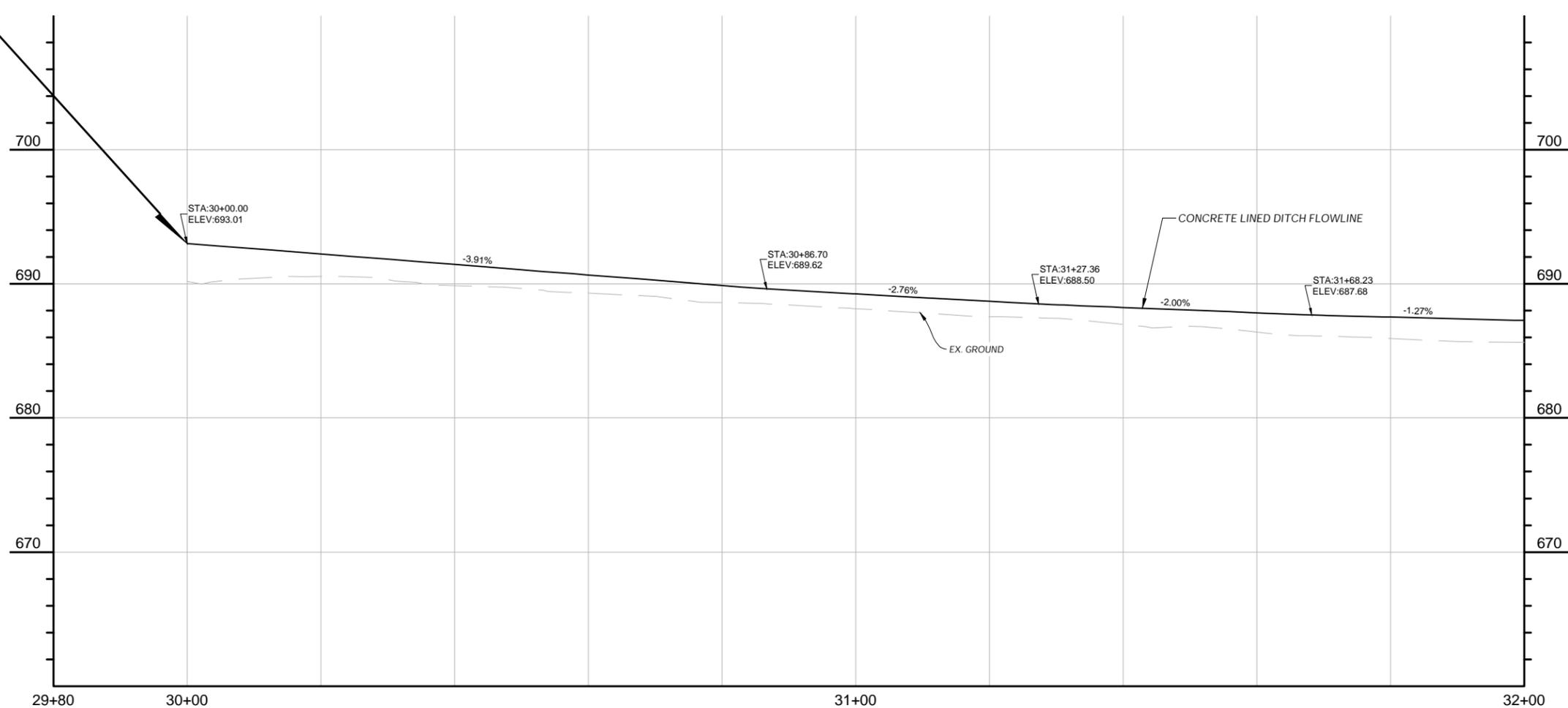
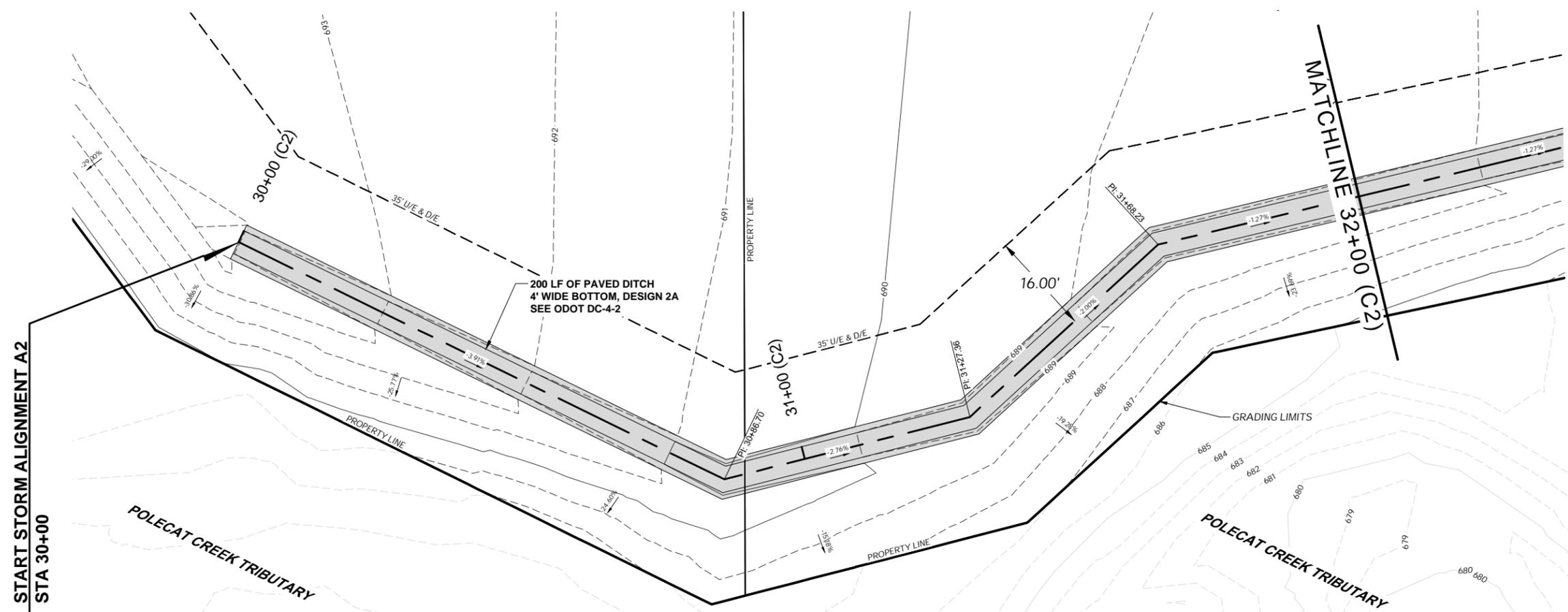


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT. 1)  
 PLAN & PROFILE  
 STORM C1-3

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
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ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	41 OF 107
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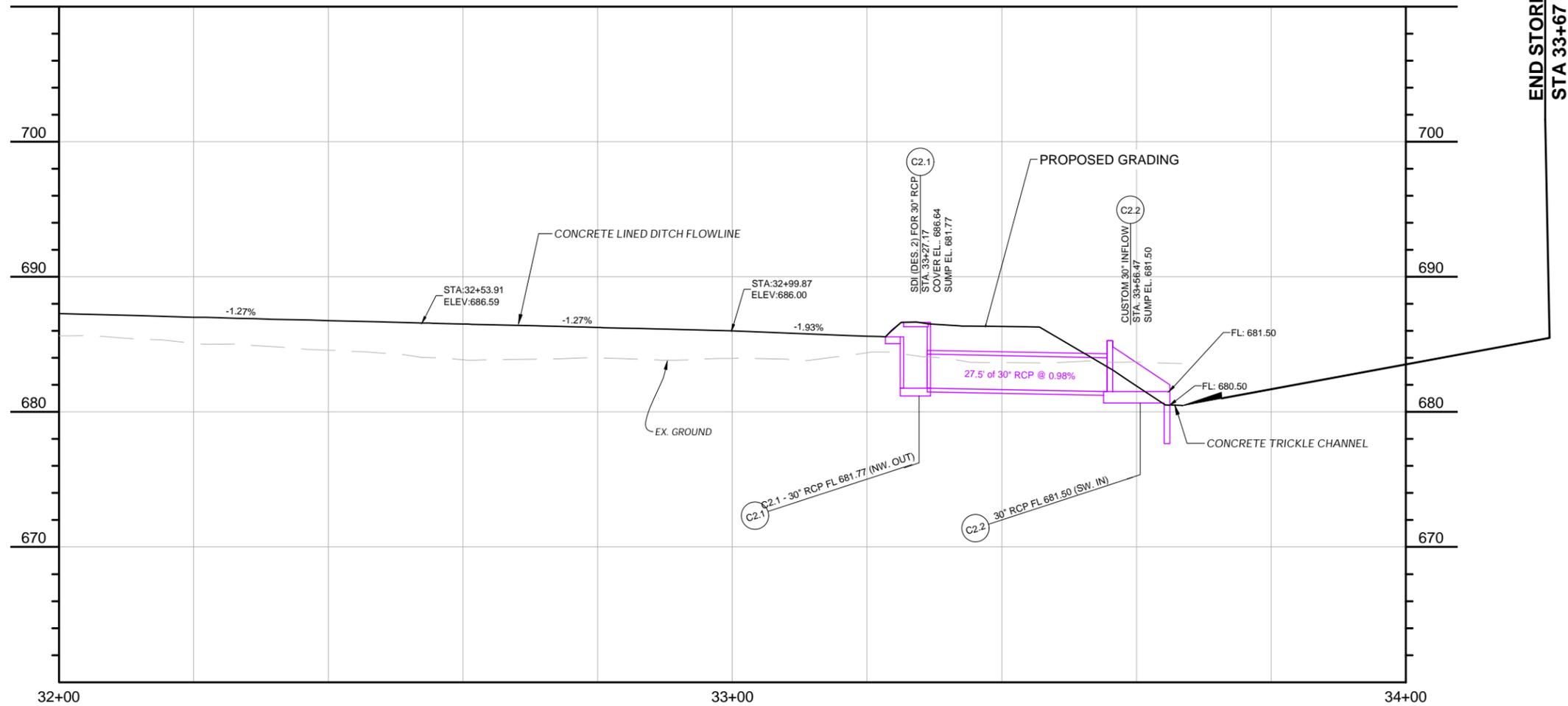
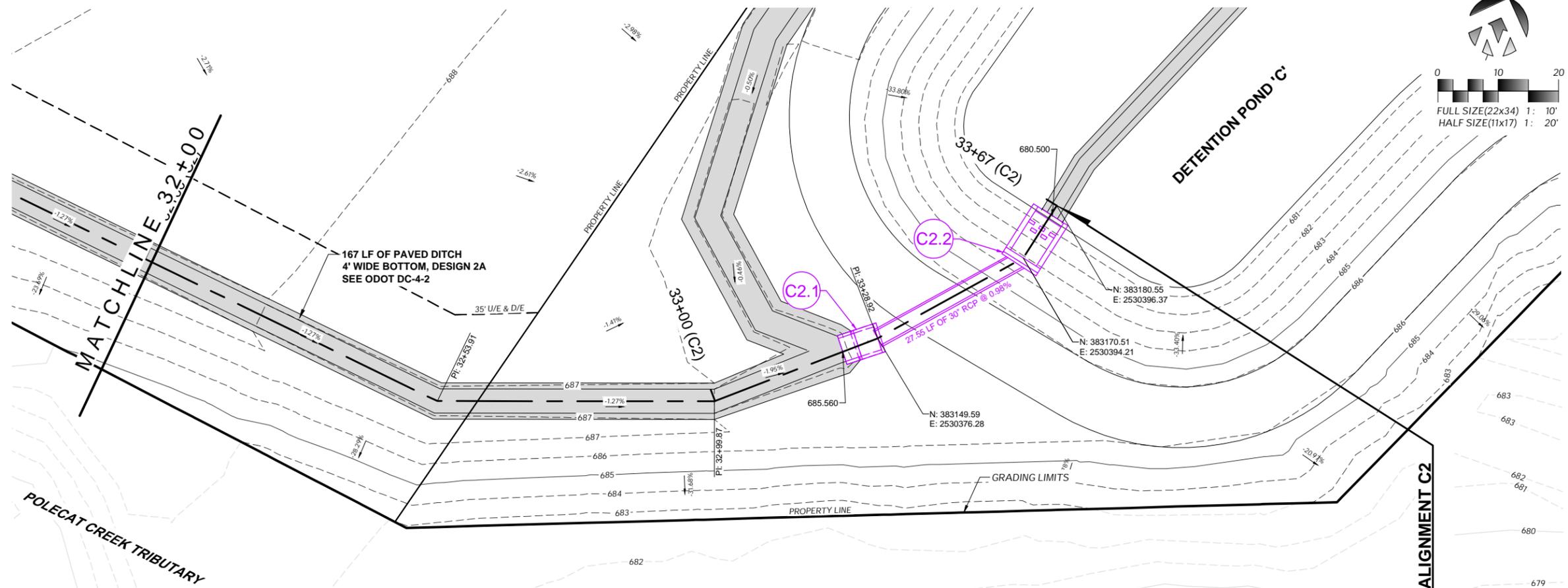
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

PHASE 2 (ALT. 1)  
PLAN & PROFILE  
STORM C2  
30+00 TO 33+65

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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DATE:	JANUARY 9, 2026
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DRAWING:	D23

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8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133	(918) 369-7911
BY	DATE
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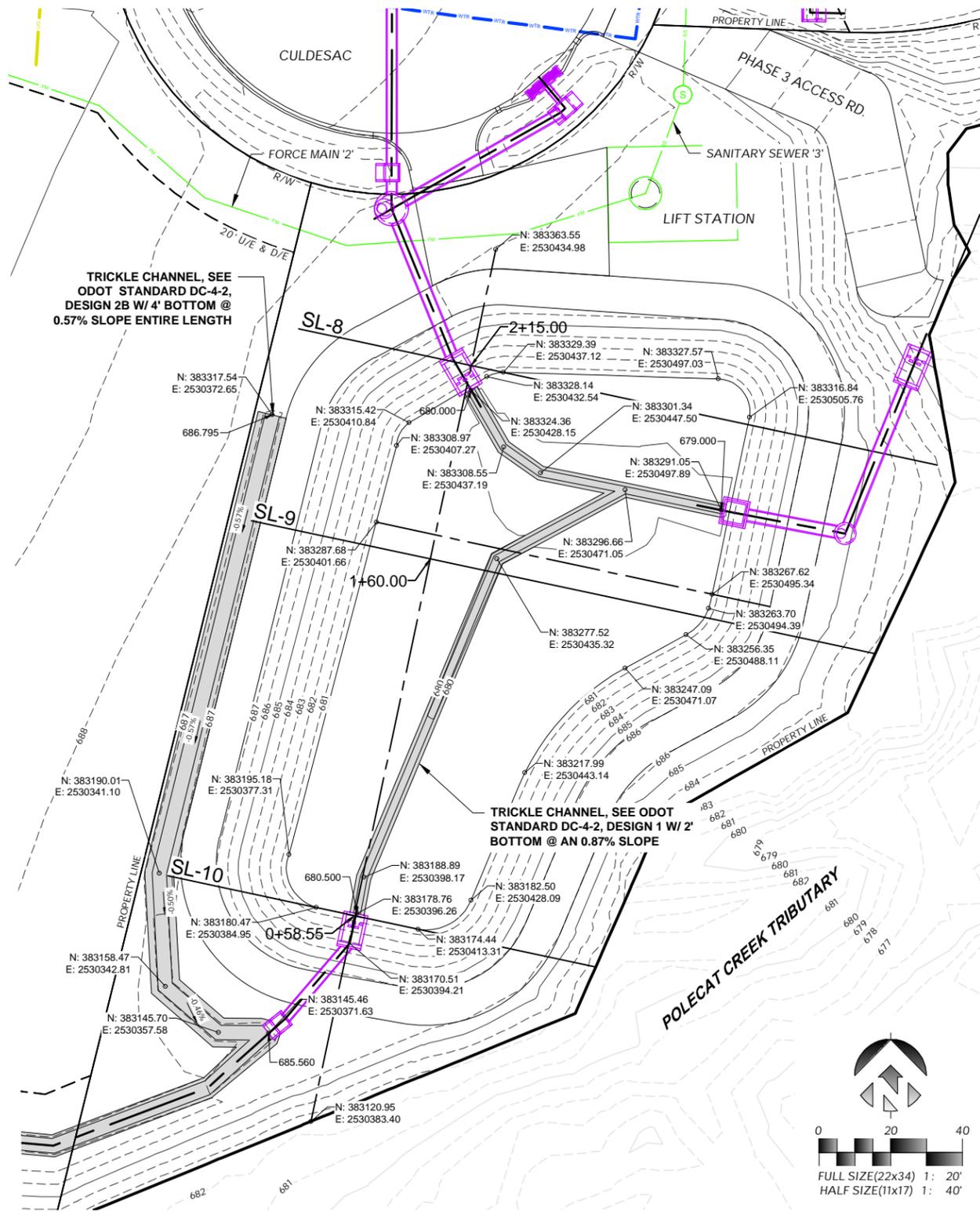


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

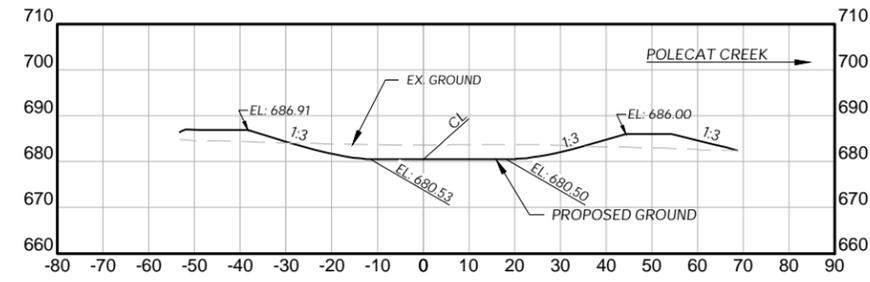
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 PLAN & PROFILE  
 STORM C2  
 STA 32+00 TO 33+67

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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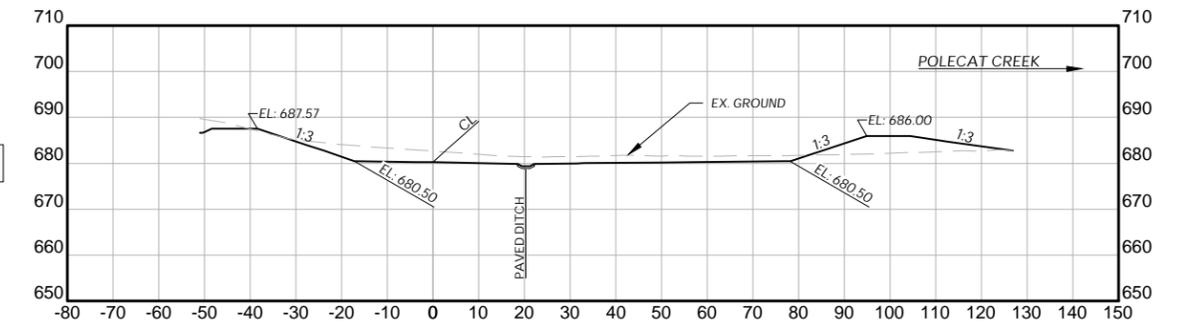
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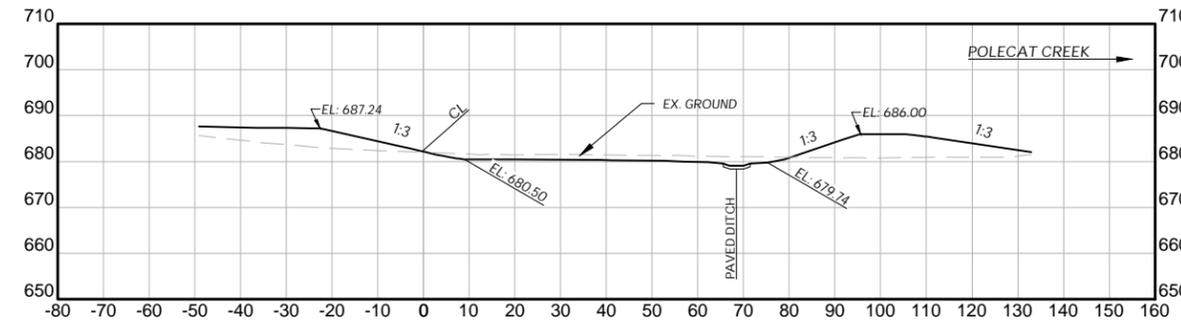
SL-8  
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SL-9  
1+60.00



SL-10  
2+15.00



Plans and Estimates Prepared By:  
**KEITHLINE ENGINEERING GROUP**  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_

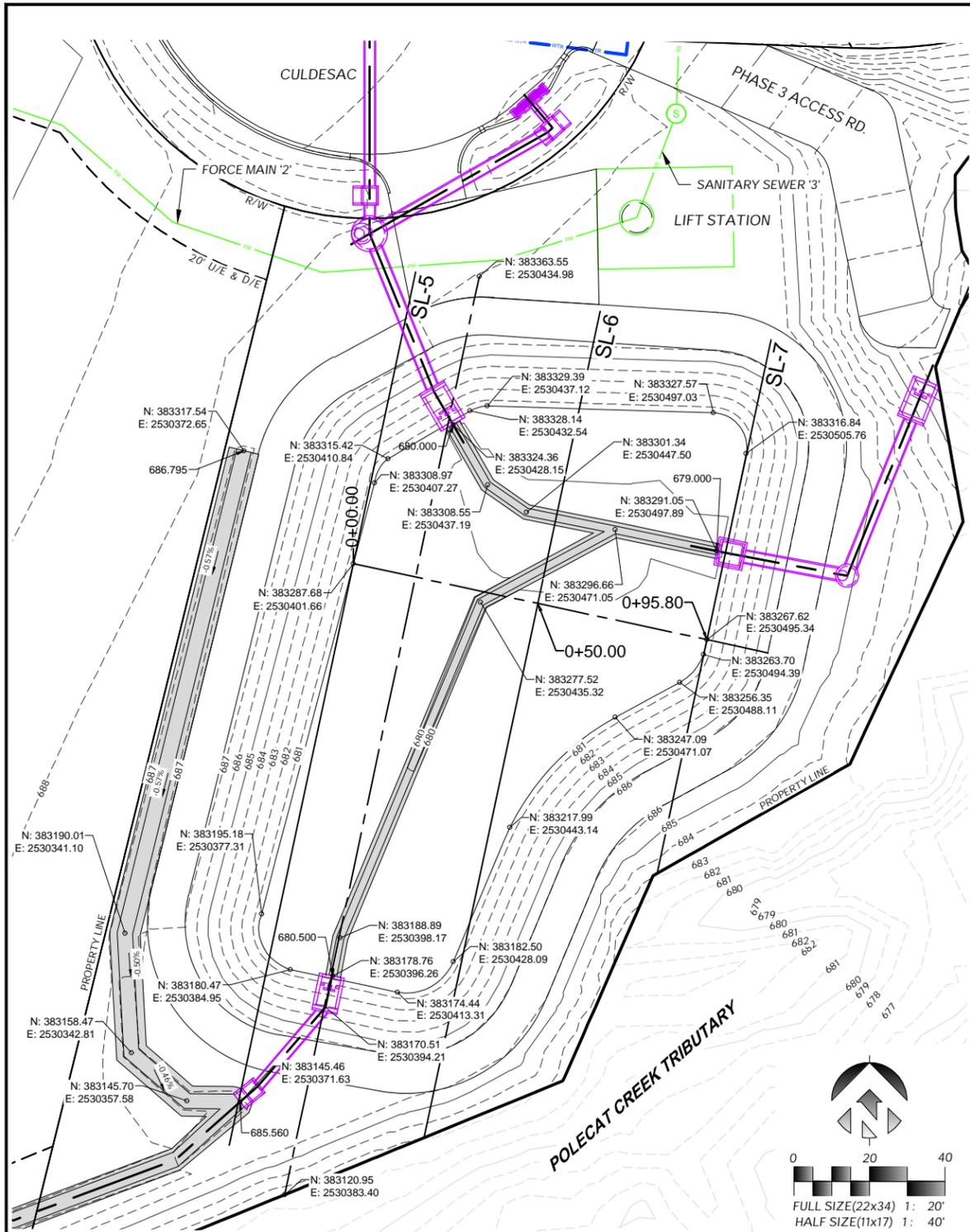


**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PHASE 2 (ALT. 1)  
 EAST WEST  
 POND SAMPLES**

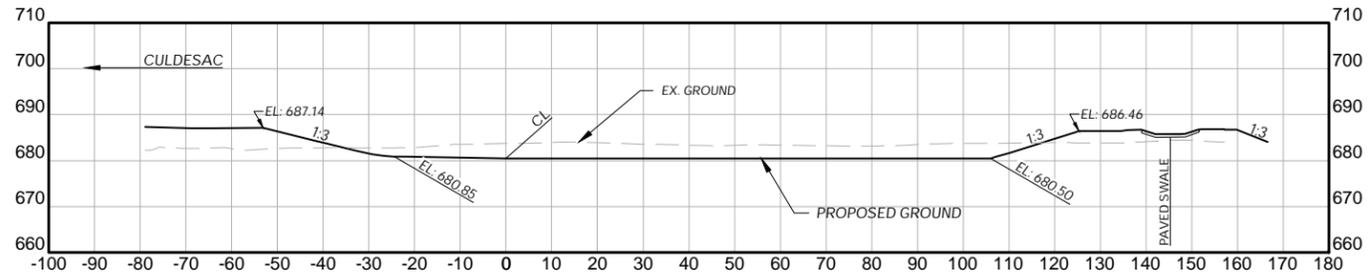
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
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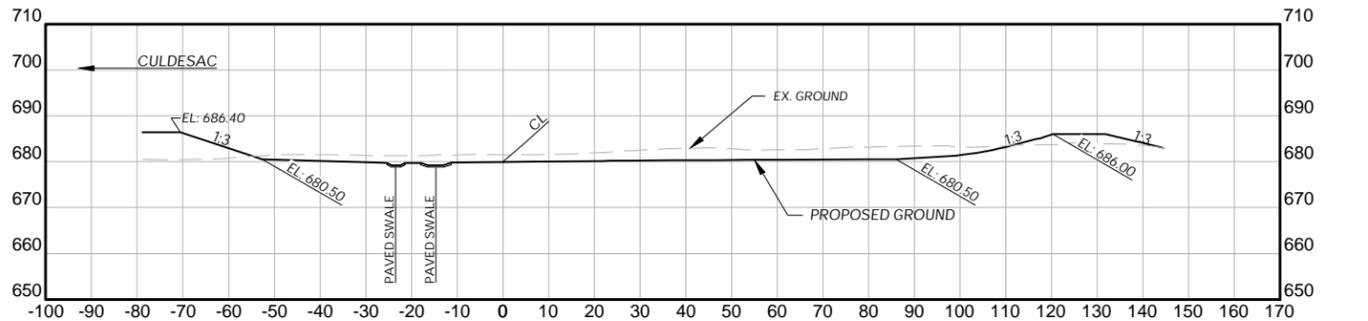


1 PHASE 2 - DETENTION POND 'C' NORTH-SOUTH CROSS SECTIONS  
SCALE: 1:20

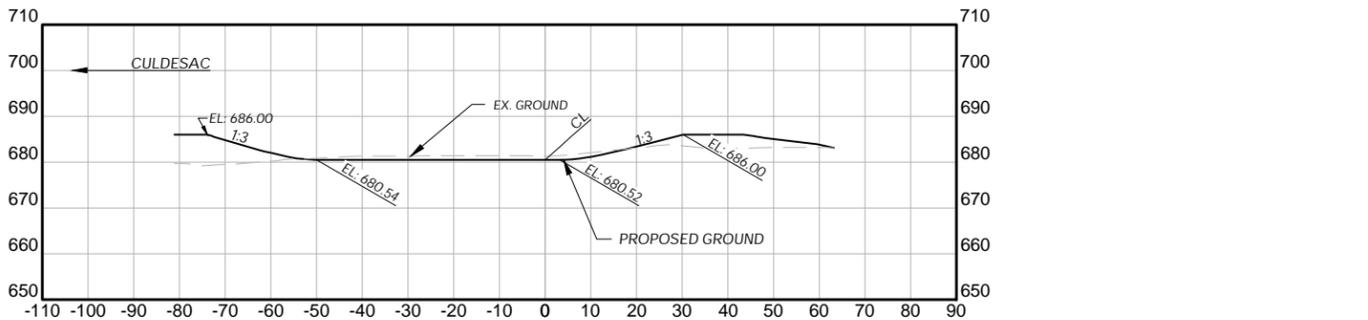
SL-5  
0+00.00



SL-6  
0+50.00



SL-7  
0+95.80



Plans and Estimates Prepared by:

DATE	
BY	
REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT  
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT. 1)  
NORTH SOUTH  
POND SAMPLES

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	45 OF 107
DRAWING:	D26

# STORM WATER MANAGEMENT PLAN



## SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: PHASE 2 PROPERTY BOUNDARY AND FRANKOMA RD. RIGHT-OF-WAY.

PROJECT DESCRIPTION: GRADE LOTS TO FLOW TO DETENTION POND,  
CONSTRUCT 324 LF OF ROADWAY, INSTALL WATERLINE, SANITARY SEWER,  
AND FORCE MAIN.

- SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: \_\_\_\_\_
1. - INSTALL EROSION CONTROL PERIMETER MEASURES
  2. - CONSTRUCT DETENTION POND AND DRAINAGE DITCHES
  3. - GRADE LOTS
  4. - ESTABLISH PERMANENT EROSION CONTROL MEASURES

SOIL TYPE: SEE PREDEVELOPMENT SOIL TYPE SHEET

TOTAL AREA OF THE CONSTRUCTION SITE: 9.00 AC.

ESTIMATED AREA TO BE DISTURBED: 9.00 AC.

OFFSITE AREA TO BE DISTURBED: 0 AC.  
(FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0 AC.

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.53 AC.

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: N/A

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 36.034979, -96.099289

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: POLECAT CREEK

SENSITIVE WATERS OR WATERSHEDS: YES  NO

303(d) IMPAIRED WATERS: YES  NO

IF YES, LIST IMPAIRMENT: \_\_\_\_\_

LOCATED IN A TMDL: YES  NO

LAKE THUNDERBIRD TMDL:  NO

MS4 ENTITY YES  NO

IF YES, LOCATION: \_\_\_\_\_

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

### SOIL STABILIZATION PRACTICES:

- \_\_\_\_\_ TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- \_\_\_\_\_ VEGETATIVE MULCHING
- \_\_\_\_\_ SOIL RETENTION BLANKET
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### STRUCTURAL PRACTICES:

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- \_\_\_\_\_ TEMPORARY SLOPE DRAIN
- PAVED DITCH W/ DITCH LINER PROTECTION
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- \_\_\_\_\_ TEMPORARY SEDIMENT TRAPS
- \_\_\_\_\_ TEMPORARY SEDIMENT FILTERS
- \_\_\_\_\_ TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- \_\_\_\_\_ INLET SEDIMENT FILTER
- \_\_\_\_\_ TEMPORARY BRUSH SEDIMENT BARRIERS
- \_\_\_\_\_ SANDBAG BERMS
- \_\_\_\_\_ TEMPORARY STREAM CROSSINGS

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### NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

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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 2009 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 AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL

### IN ADDITION:

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

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



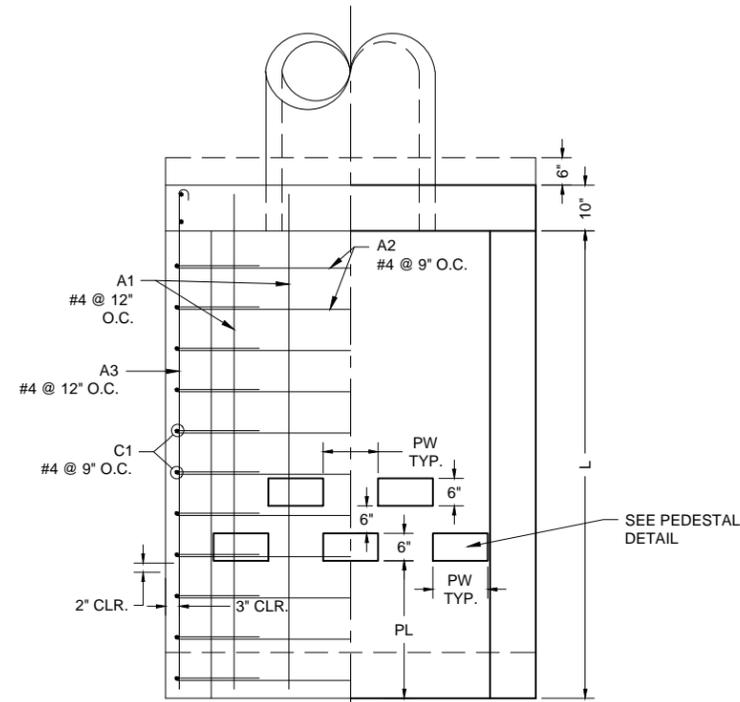
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
 STORMWATER  
 MANAGEMENT  
 PLAN

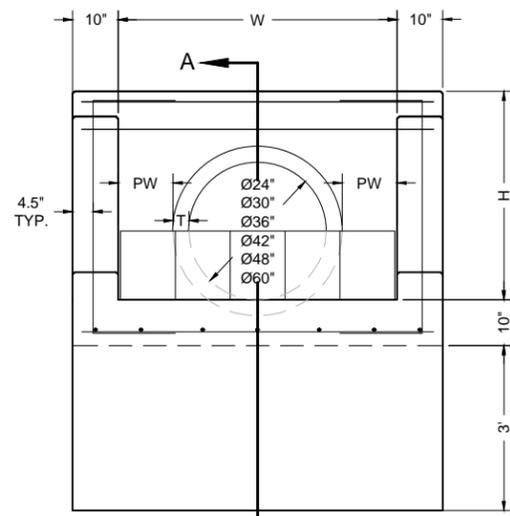
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	46 OF 107
DRAWING:	D27

PIPE ID	SPECIAL STRUCTURE									REINFORCING STEEL																TOTAL						
	DIMENSIONS								CONC	A1 - BENT		A2 - STRAIGHT		A3 - BENT		B1 - STRAIGHT		B2 - BENT		B3 - STRAIGHT		C1 - BENT		C2 - BENT			C3 - BENT		P1 - STRAIGHT		P2 - BENT	
	H	L	W	T	P	PL	PW	CY		LENGTH	QTY	LENGTH	QTY	LENGTH	QTY	LENGTH	QTY	LENGTH	QTY	LENGTH	QTY	LENGTH	QTY	LENGTH	QTY		LENGTH	QTY	LENGTH	QTY	LENGTH	QTY
24"	3'-3"	7'	4'-6"	3"	1'-0"	2'-0"	10.75"	3.2	7'-3"	6	5'-10"	9	7'-3"	2	5'-10"	7	6'-8"	4	1'-6"	6	10" to 2'-10"	18	2'-8" to 7'-2"	6	6'-7"	2	6.75"	10	2'-1"	10	217.447	
30"	3'-9.5"	8'-6"	5'-1"	3.5"	1'-3"	2'-6"	1'-0"	4	8'-9"	7	6'-5"	11	8'-9"	2	6'-5"	7	7'-1.5"	4	1'-6"	7	10" to 3'-4"	22	1'-11" to 8'-8"	8	8'-0"	2	6"	10	2'-4"	10	274.301	
36"	4'-4"	10'	5'-8"	4"	1'-6"	3'-0"	1'-1.75"	5	10'-3"	7	7'-0"	13	10'-3"	2	7'-0"	7	7'-9"	4	1'-6"	7	10" to 3'-10"	26	3'-5" to 10'-2"	8	9'-7"	2	9.75"	10	2'-7"	10	329.464	
42"	4'-10.5"	11'-10.5"	6'-3"	4.5"	1'-9"	3'-6"	1'-3"	6.2	12'-1.5"	8	7'-3"	15	12'-1.5"	2	7'-3"	7	8'-2.5"	4	1'-6"	8	10" to 4'-4"	30	1'-0" to 12'-2"	10	12'-9.5"	2	11"	10	2'-10"	10	425.296	
48"	5'-5"	13'-6"	6'-10"	5"	2'-0"	4'-0"	1'-4.4"	7.4	13'-9"	9	8'-2"	18	13'-9"	2	8'-2"	7	8'-10"	4	1'-6"	9	10" to 5'-1"	36	2'-5" to 13'-8"	12	13'-10"	2	1'-0"	10	3'-1"	10	498.849	
54"	6'-9.5"	16'-9"	7'-7"	3.6"	2'-6"	4'-6"	1'-6.25"	9.9	17'	10	8'-11"	27	17'	2	8'-11"	7	10'-2.5"	4	1'-6"	10	11" to 6'-1"	44	3'-5" to 16'-11"	14	17'-1"	2	1'-2"	10	3'-7"	10	686.504	

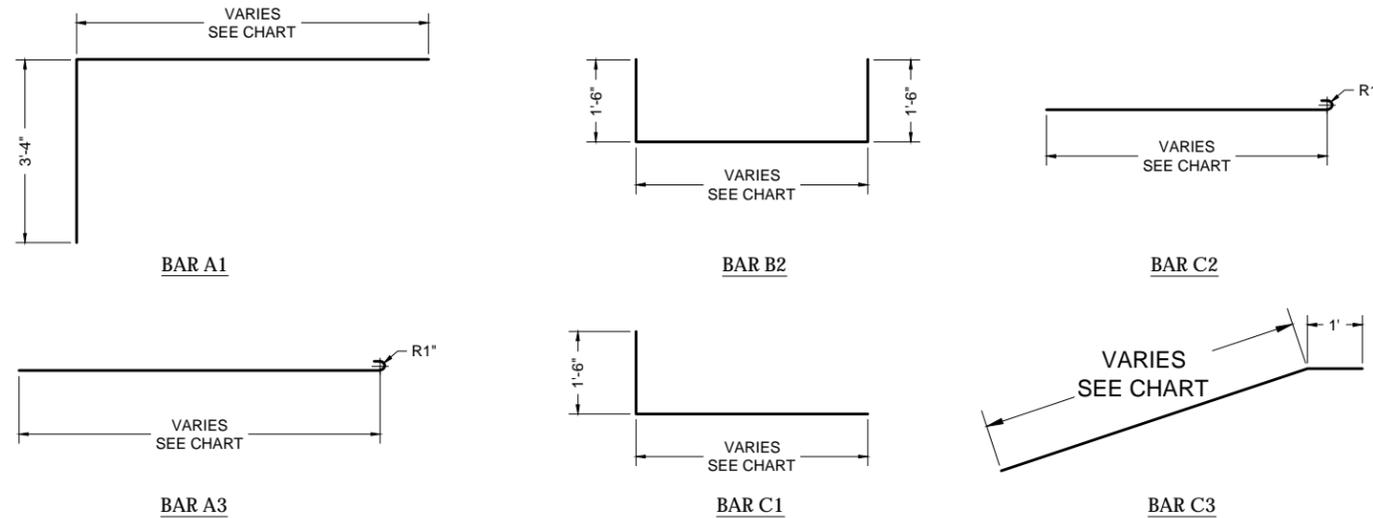
\* CUT AS FIELD CONDITIONS REQUIRE



PLAN

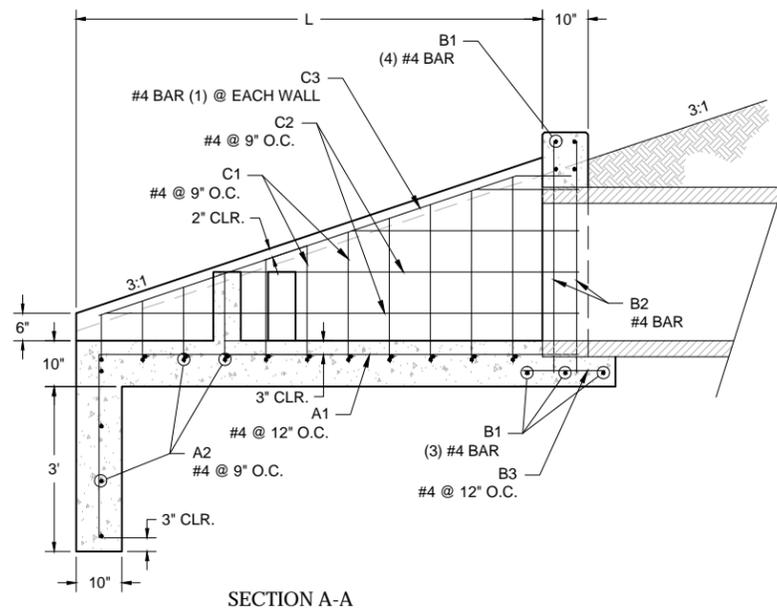


ELEVATION



GENERAL NOTES:

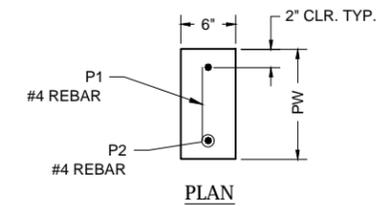
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF SAPULPA STANDARD SPECIFICATIONS.
2. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
4. MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0".



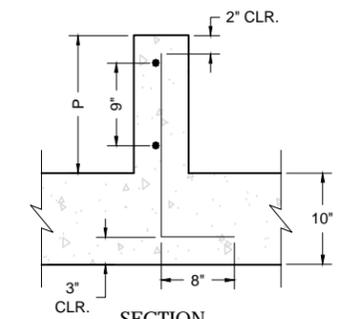
SECTION A-A

PEDESTAL DETAIL

SCALE: 1:10



PLAN



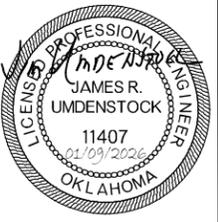
SECTION

PEDESTAL DETAIL

SCALE: 1:10

1/9/2026 10:14:45 AM

1 SPECIAL 24", 30", 36", 48" & 60" OUTFALL STRUCTURE SCALE: 1:20



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 & 2  
 SPECIAL OUTFALL  
 STRUCTURE

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	47 OF 107
DRAWING:	D28



Plans and Estimates Prepared by:

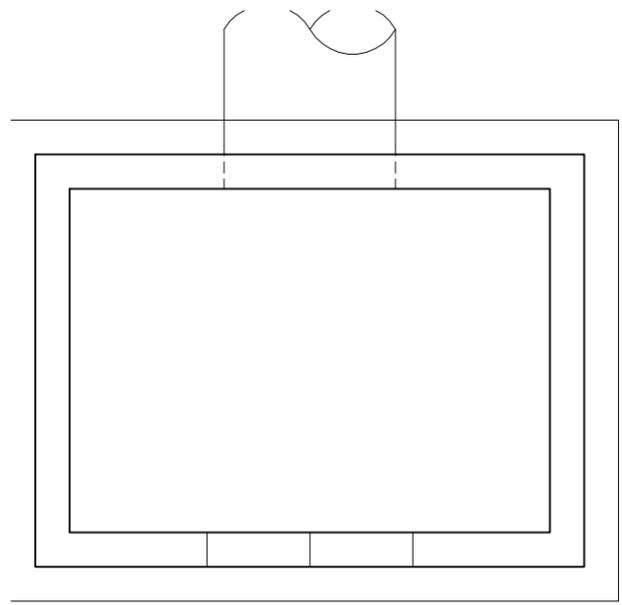
KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



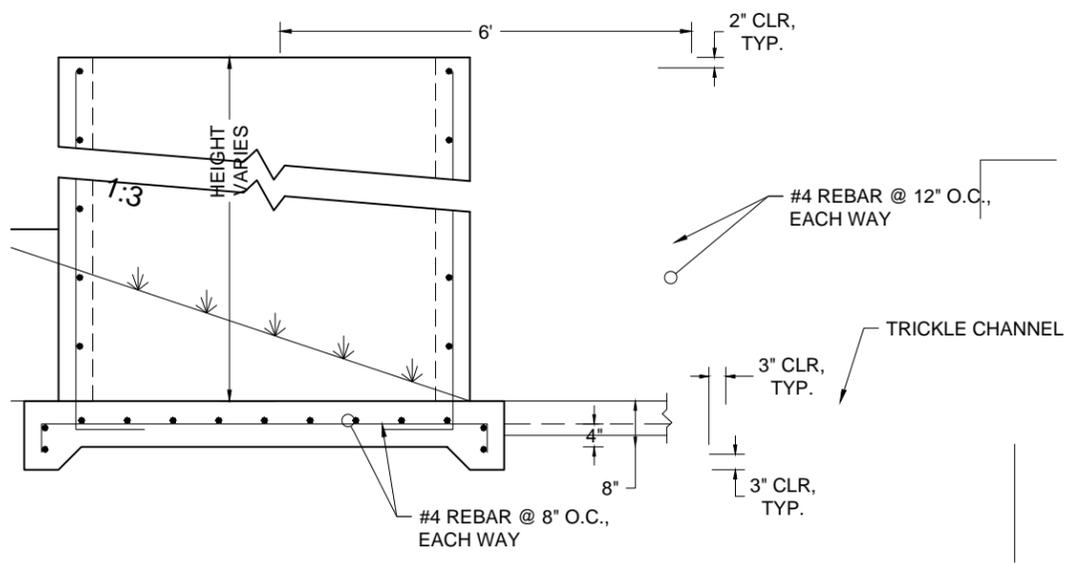
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 & 2  
 SPECIAL INLET  
 V-NOTCH WEIR

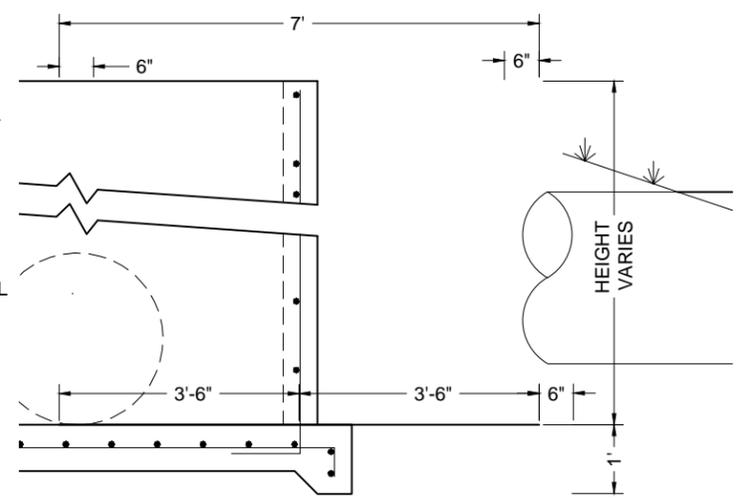
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	48 OF 107
DRAWING:	D29



1 TYPICAL WEIR DIMENSIONS - PLAN VIEW  
 SCALE: 1:16

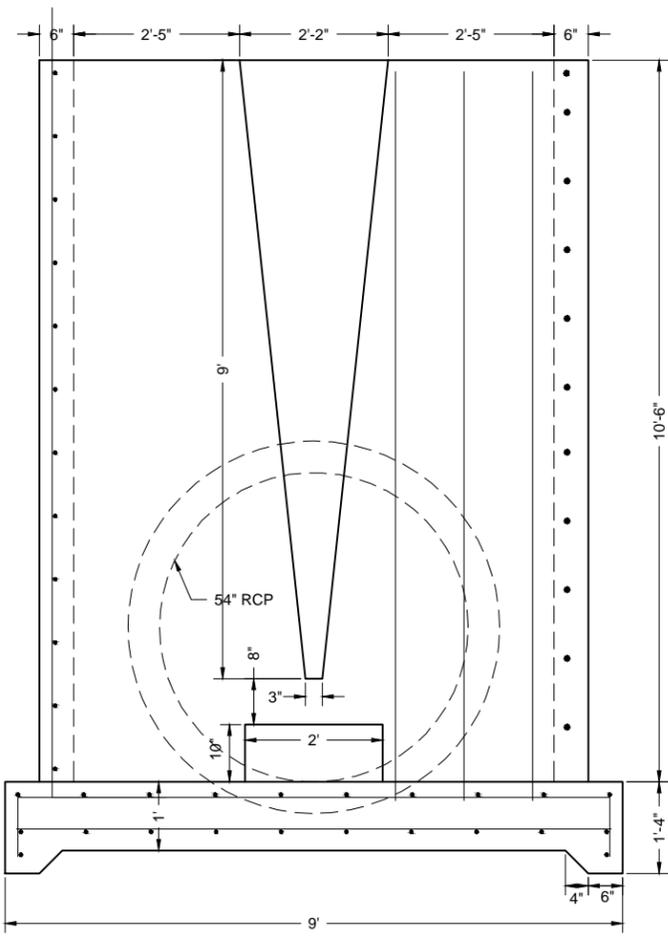


2 TYPICAL WEIR DIMENSIONS - PROFILE VIEW  
 SCALE: 1:16

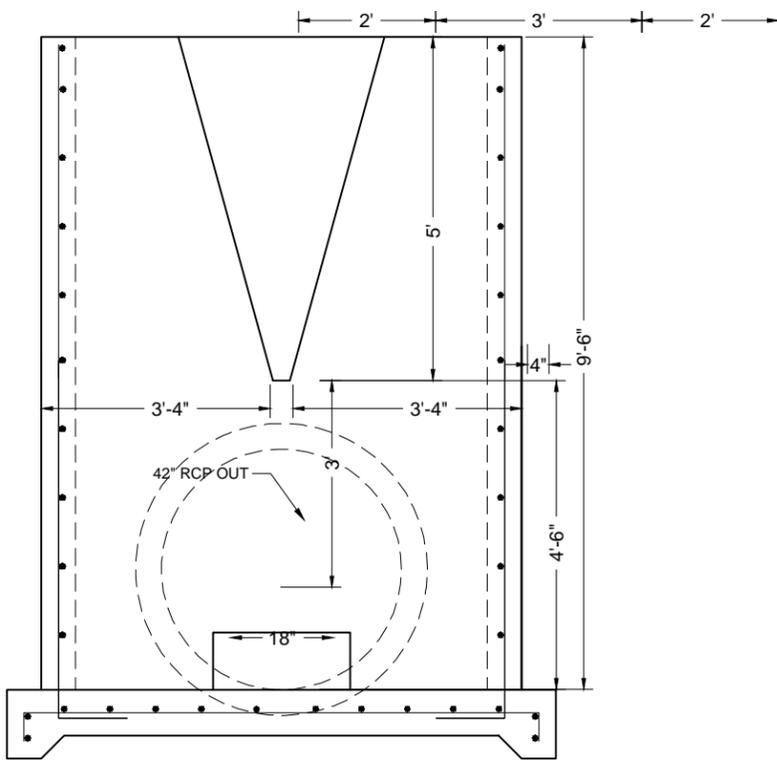


3 TYPICAL WEIR DIMENSIONS - SECTION VIEW  
 SCALE: 1:16

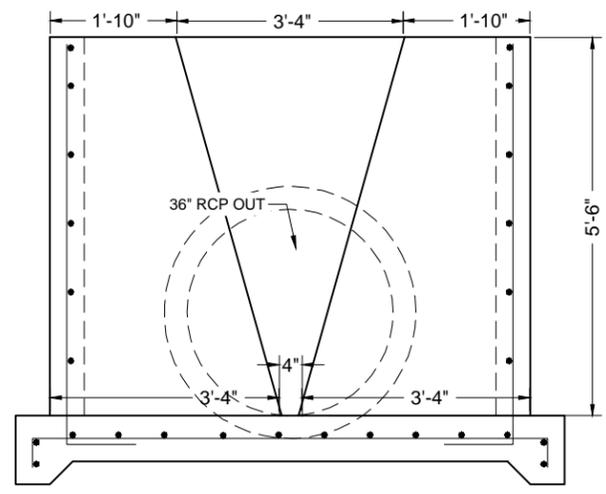
- GENERAL NOTES:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF SAPULPA STANDARD SPECIFICATIONS.
  2. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.
  3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
  4. MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0".



4 PHASE 1 - DETENTION POND 'A' WEIR SHAPE DETAIL  
 SCALE: 3/4" = 1'-0"



5 PHASE 1 - DETENTION POND 'B' WEIR SHAPE DETAIL  
 SCALE: 1:16



6 PHASE 2 - DETENTION POND 'C' WEIR SHAPE DETAIL  
 SCALE: 1:16

POND A WEIR QUANTITIES

	CONC. (CY)	REIN. (LBS)
WALLS	4.43	442.00
FOOTING	2.61	334.08
TOTAL	7.04	776.08

POND B WEIR QUANTITIES

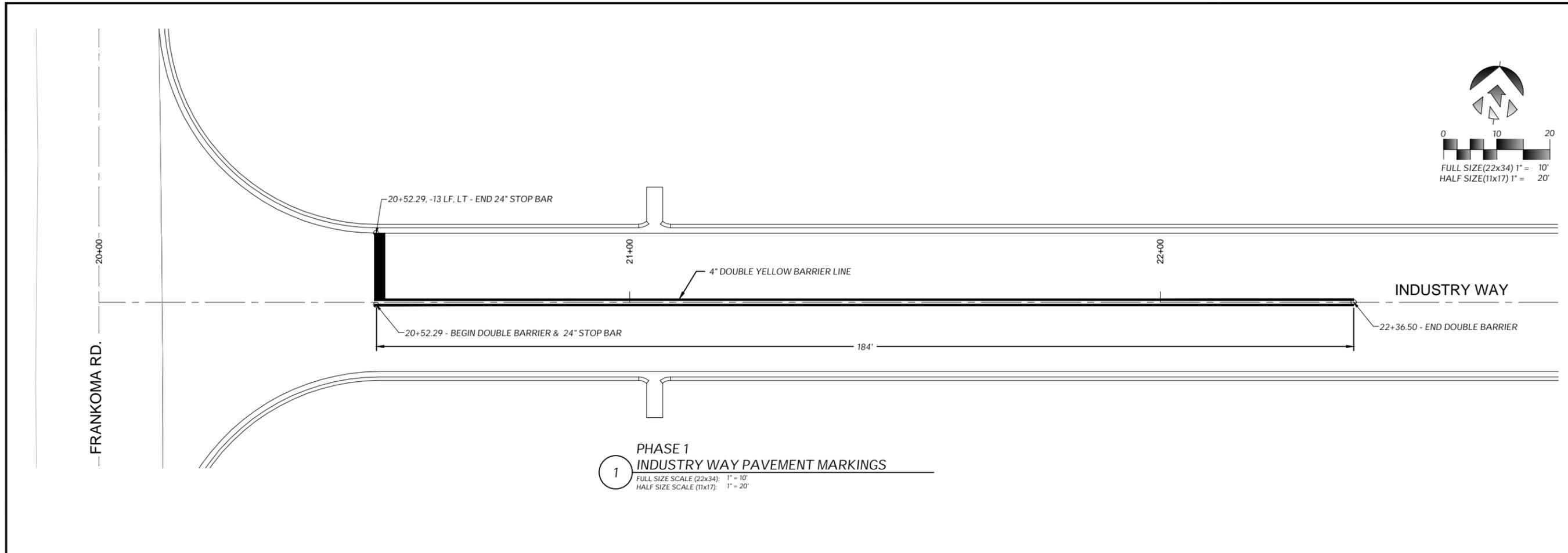
	CONC. (CY)	REIN. (LBS)
WALLS	3.81	
FOOTING	2.33	
TOTAL	7.04	

POND C WEIR QUANTITIES

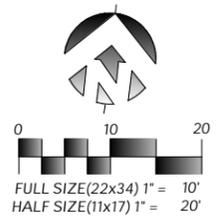
	CONC. (CY)	REIN. (LBS)
WALLS	3.88	
FOOTING	2.33	
TOTAL	7.04	

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1/9/2026 10:14:54 AM

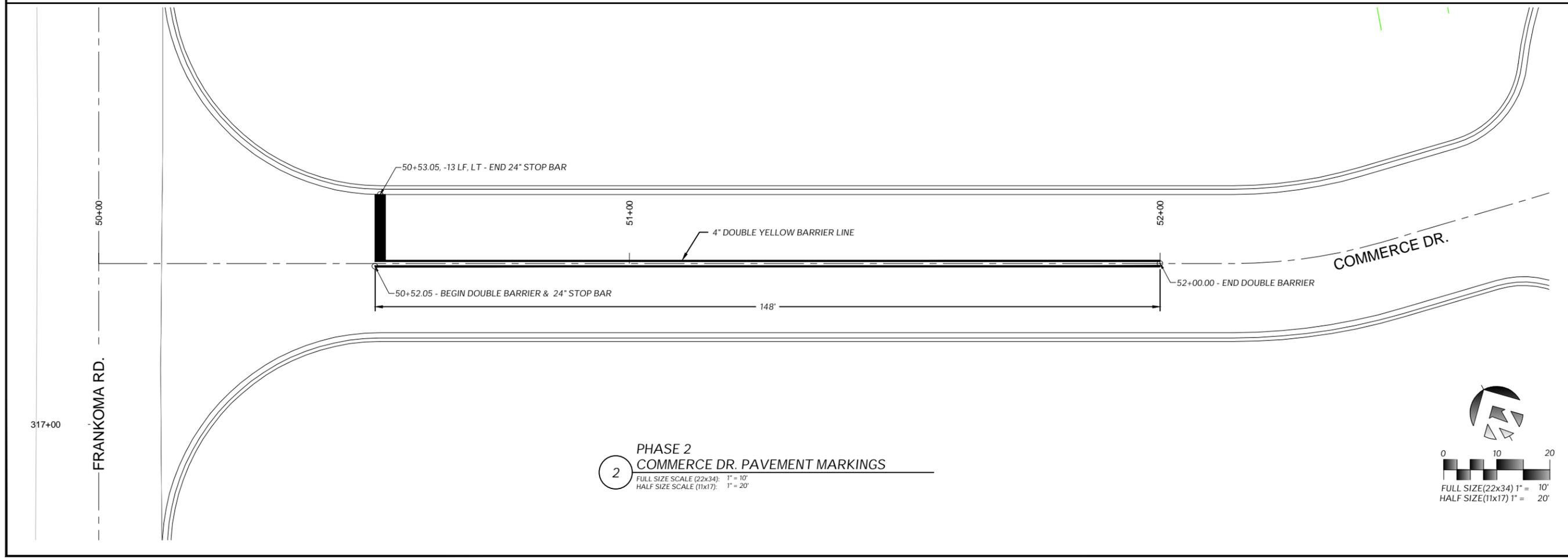


**1** PHASE 1  
INDUSTRY WAY PAVEMENT MARKINGS  
FULL SIZE SCALE (22x34): 1" = 10'  
HALF SIZE SCALE (11x17): 1" = 20'

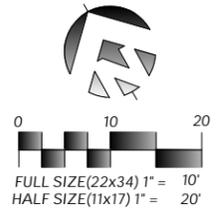


Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY		DATE	
		REVISION			



**2** PHASE 2  
COMMERCE DR. PAVEMENT MARKINGS  
FULL SIZE SCALE (22x34): 1" = 10'  
HALF SIZE SCALE (11x17): 1" = 20'



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

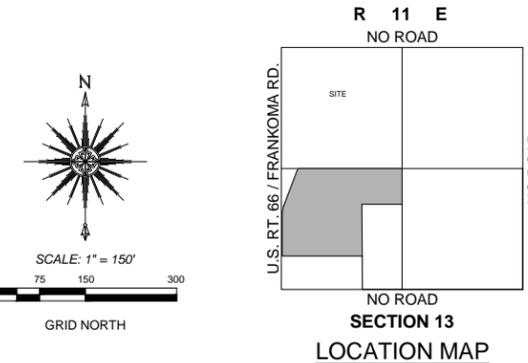
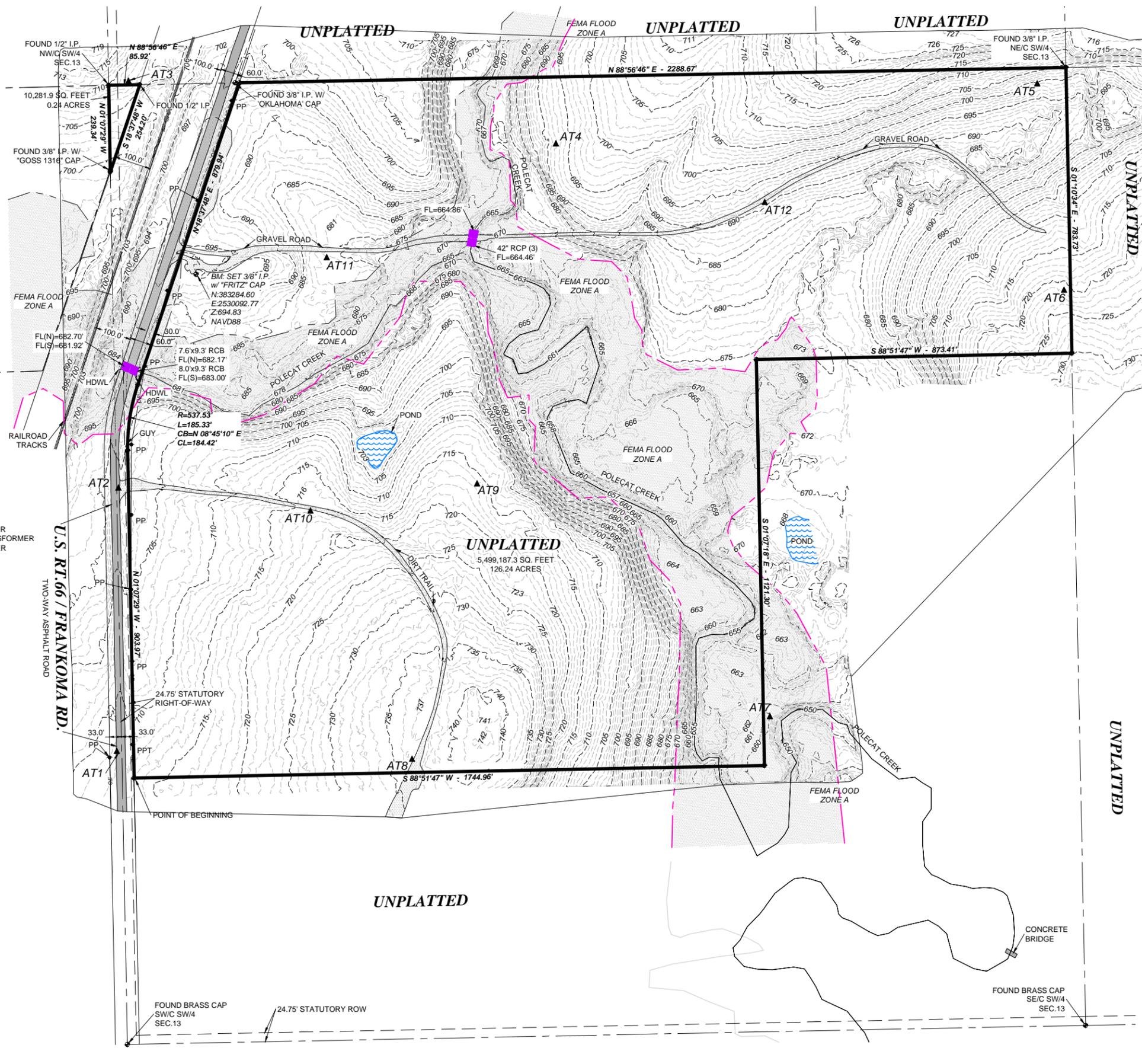
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 & 2  
PAVEMENT  
MARKINGS**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
<b>SHEET:</b>	<b>49 OF 107</b>
<b>DRAWING:</b>	<b>T01</b>

**LEGEND**

- AC = AIR CONDITIONER
- AD = AREA INLET
- ASP = AUTO SPRINKLER
- BC = BOTTOM OF CURB
- B/L = BUILDING LINE
- BM = BENCHMARK
- BWF = BARBED WIRE FENCE
- CATV = CABLE TV PEDESTAL
- CL = CENTERLINE
- CLB = CLIMB BARRIER
- CLF = CHAIN LINK FENCE
- CO = CLEAN OUT
- CPS = COX POWER SUPPLY
- CMP = CORRUGATED METAL PIPE
- CPP = CORRUGATED PLASTIC PIPE
- DGDI = DOUBLE GRATE DROP INLET
- DIP = DUCTILE IRON PIPE
- EM = ELECTRIC METER
- EO = ELECTRIC OUTLET
- EPED = ELECTRIC PEDESTAL
- ET = ELECTRIC TRANSFORMER
- FF = FINISH FLOOR
- FG = FINISH GRADE
- FH = FIRE HYDRANT
- FL = FLAG POLE
- FLM = FLOWLINE
- GLM = GAS LINE MARKER
- GM = GAS METER
- GR = GAS REGULATOR
- GV = GAS VALVE
- GL = GROUND LIGHT
- GP = GUARD POST
- GUY = GUY ANCHOR
- HDWL = HEADWALL
- HPP = HIGH POWER POLE
- HPS = HANDICAP PARKING SIGN
- HWF = HOG WIRE FENCE
- ICV = IRRIGATION CONTROL VALVE
- I.P. = IRON PIN
- (L) = PER LEGAL DESCRIPTION
- LP = LIGHT POLE
- (M) = MEASURED DATA
- MB = MAILBOX
- MRK = UTILITY MARKER
- MW = MONITORING WELL
- (P) = PER PLAT
- P/E = PIPELINE EASEMENT
- PLF = PLASTIC FENCE
- PLM = PIPELINE MARKER
- PM = PARKING METER
- PP = POWER POLE
- PPD = POWER POLE W/ DROP SERVICE
- PPDT = POWER POLE W/ DROP & TRANSFORMER
- PPDLT = POWER POLE W/ DROP, LIGHT & TRANSFORMER
- PPLT = POWER POLE W/ LIGHT & TRANSFORMER
- PPM = POWER POLE W/ ELECTRIC METER
- PPNS = POWER POLE / NO SERVICE
- PPT = POWER POLE W/ TRANSFORMER
- RCB = REINFORCED CONCRETE BOX
- RCP = REINFORCED CONCRETE PIPE
- RD = ROOF DRAIN
- ROW = RIGHT-OF-WAY
- SSLH = SANITARY SEWER LAMP HOLE
- SSMH = SANITARY SEWER MANHOLE
- S/B = SETBACK
- SGDI = SINGLE GRATE DROP INLET
- SH = SPRINKLER HEAD
- SP = SIGN POST
- STMH = STORM SEWER MANHOLE
- STJB = STORM SEWER JUNCTION BOX
- TM = TELEPHONE MANHOLE
- TPED = TELEPHONE PEDESTAL
- TC = TOP OF CURB
- TD = TOP OF DECK
- TG = TOP OF GRATE
- TH = THRESHOLD
- TR = TOP OF RIM
- TS = TRAFFIC SIGN
- TSLP = TRAFFIC SIGNAL LIGHT POLE
- TSPB = TRAFFIC SIGNAL PULL BOX
- TSMH = TRAFFIC SIGNAL MANHOLE
- TVLT = TELEPHONE VAULT
- TW = TOP OF WALL
- U/E = UTILITY EASEMENT
- UM = UTILITY MARKER
- VP = VENT PIPE
- WF = WATER FAUCET
- WM = WATER METER
- WSE = WATER SURFACE ELEVATION
- WV = WATER VALVE
- WDF = WOOD FENCE
- (Z) = ZONING
- = CENTERLINE
- x- = FENCE LINE
- o--- = OVERHEAD COMMUNICATION
- oe- = OVERHEAD ELECTRIC
- ss--- = SANITARY SEWER
- st--- = STORM SEWER
- top/toe--- = TOP/TOE OF GROUND SLOPE
- uc--- = UNDERGROUND COMMUNICATION
- ue--- = UNDERGROUND ELECTRIC
- ug--- = UNDERGROUND GAS
- ut--- = UNDERGROUND TELEPHONE
- wl--- = WATERLINE
- = ZONE AE FLOODWAY
- = ZONE A  
1.0% CHANCE OF FLOOD
- x--- = ZONE SHADED "X"  
0.2% CHANCE OF FLOOD



**LEGAL DESCRIPTION - AS PROVIDED - BK. 1356, PG. 60**  
 THE SOUTHWEST QUARTER OF SECTION THIRTEEN, TOWNSHIP EIGHTEEN NORTH, RANGE ELEVEN EAST, (SW/4 SEC.13-T18N-R11E) OF THE INDIAN BASE AND MERIDIAN, CREEK COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, LESS AND EXCEPT 2.75 ACRES FOR THE ST. LOUIS AND SAN FRANCISCO RAILROAD RIGHT OF WAY.

**SURVEYOR'S NOTES**  
 PREPARED FOR: KEITHLINE ENGINEERING GROUP, LLC  
 PHYSICAL ADDRESS: TBD, PARCEL ID:190014678, FRANKOMA RD., SAPULPA, CREEK COUNTY, OK 74066

BEARINGS ARE BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, (3501 OK N), NORTH AMERICAN DATUM 1983 (NAD83). MEASUREMENTS SHOWN ARE GRID DISTANCES IN U.S. SURVEY FEET.  
 TOPOGRAPHIC INFORMATION SHOWN HEREON IS RELATIVE TO NAVD 1988 DATUM PER ON-SITE OPTUS SOLUTION AS THE PRIMARY BENCHMARK. SITE BENCHMARK AS SHOWN HEREON. CONTOUR INTERVAL IS 1'.

EASEMENTS MAY EXIST THAT ARE NOT SHOWN.  
 REFER TO CURRENT ZONING FOR NEW CONSTRUCTION GUIDELINES.

SET 3/8" IRON PIN W/ GREEN "FRITZ CA5848" CAP OR MAG NAIL W/ "FRITZ CA5848" WASHER AT ALL CORNERS UNLESS OTHERWISE NOTED AND SHOWN HEREON.

GROSS LAND AREA: 3,886,557.2 SQ. FEET OR 89.22 ACRES.  
 WE HAVE EXAMINED A MAP BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, CREEK COUNTY UNINCORPORATED AREAS, OKLAHOMA, COMMUNITY PANEL NO. 40037C0190D - MAY 18, 2009, WHICH INDICATES THE SUBJECT PROPERTY TO BE WITHIN SHADED ZONE A (AREAS DETERMINED TO BE INSIDE THE 1.0% ANNUAL CHANCE FLOODPLAIN).

LAST SITE VISIT: DECEMBER 18, 2024.  
 UNDERGROUND UTILITIES SHOWN HEREON WERE DERIVED FROM OBSERVABLE FIELD EVIDENCE. ALL UTILITIES MAY NOT BE SHOWN - CALL OKIE 1-800-522-6543!

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
AT1	381966.962	2529872.867	711.62	SET MAG NAIL
AT2	382693.683	2529877.400	701.37	SET MAG NAIL
AT3	383817.269	2529904.735	707.86	SET 3/8" I.P. w/ "FRITZ" CAP
AT4	383644.058	2531088.123	691.87	SET 3/8" I.P. w/ "FRITZ" CAP
AT5	383809.749	2532420.909	698.79	SET 3/8" I.P. w/ "FRITZ" CAP
AT6	383240.119	2532494.763	721.29	SET 3/8" I.P. w/ "FRITZ" CAP
AT7	382062.720	2531680.470	659.63	SET 3/8" I.P. w/ "FRITZ" CAP
AT8	381944.728	2530689.946	736.11	SET 3/8" I.P. w/ "FRITZ" CAP
AT9	382705.370	2530869.989	716.16	SET 3/8" I.P. w/ "FRITZ" CAP
24517	383284.604	2530092.768	694.83	SET 3/8" I.P. w/ "FRITZ" CAP

**CERTIFICATE OF SURVEY**  
 FRITZ LAND SURVEYING, LLC AND THE UNDERSIGNED PROFESSIONAL LAND SURVEYOR, UNDER CERTIFICATE OF AUTHORIZATION CA #5848, DO HEREBY STATE THAT THIS PLAT OF SURVEY IS A TRUE AND ACCURATE REPRESENTATION OF THE SURVEY MADE ON THE GROUND AND OF THE FACTS AS FOUND AT THE TIME OF THE SURVEY AND THAT THIS PLAT MEETS OR EXCEEDS THE MINIMUM TECHNICAL STANDARDS ADOPTED BY THE OKLAHOMA STATE BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

WITNESS MY HAND AND SEAL THIS 19th DAY OF DECEMBER, 2024.

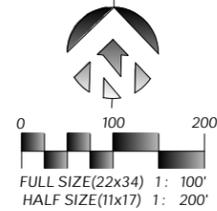
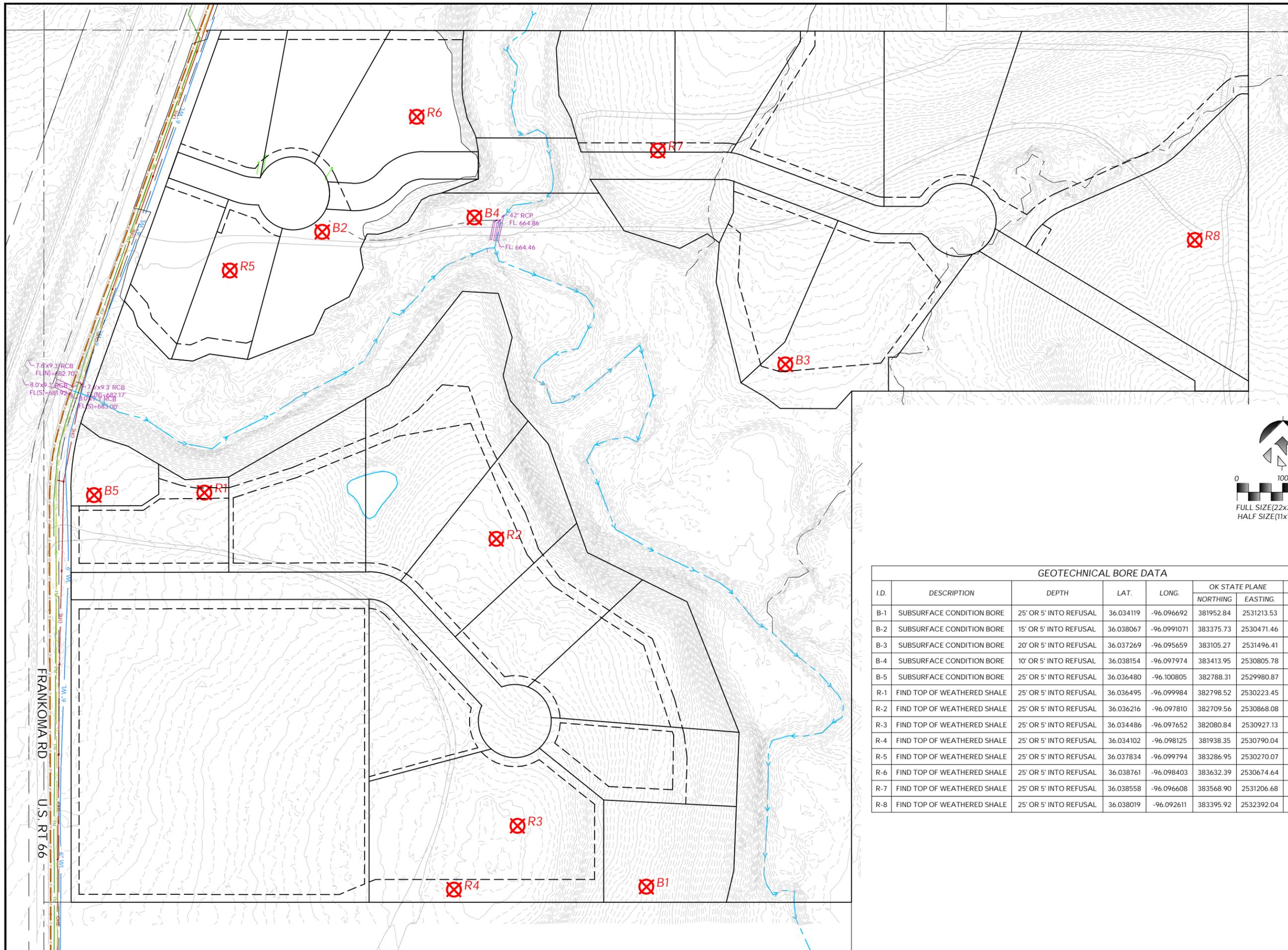
ANDY FRITZ, PLS  
 OK LIC. 1694  
 CA #5848

**PLAT OF SURVEY w/ TOPO**  
 PART OF THE SW/4 OF SEC.13, T18N, R11E  
 TBD, PARCEL ID:190014678, FRANKOMA RD., SAPULPA, CREEK COUNTY, OK 74066

SURVEY: AJN	DATE: 12.18.2024	PREPARED BY: FRITZ LAND SURVEYING, LLC
DRAFT: GHM	DATE: 12.19.2024	524 E. MAIN ST., JENKS, OK 74037
APPROVED: PLS	DATE: 12.19.2024	PH: 918-528-5121
REV:	PROJECT NO.: 24517	FRITZLANDSURVEYING@GMAIL.COM
		C.A. # 5848 EXPIRES: 6-30-2026

1/9/2026 10:15:02 AM

1/9/2026 10:15:07 AM



GEOTECHNICAL BORE DATA							
I.D.	DESCRIPTION	DEPTH	LAT.	LONG.	OK STATE PLANE		NAVD88 ELEV.
					NORTHING	EASTING	
B-1	SUBSURFACE CONDITION BORE	25' OR 5' INTO REFUSAL	36.034119	-96.096692	381952.84	2531213.53	704.87
B-2	SUBSURFACE CONDITION BORE	15' OR 5' INTO REFUSAL	36.038067	-96.0991071	383375.73	2530471.46	680.62
B-3	SUBSURFACE CONDITION BORE	20' OR 5' INTO REFUSAL	36.037269	-96.095659	383105.27	2531496.41	676.60
B-4	SUBSURFACE CONDITION BORE	10' OR 5' INTO REFUSAL	36.038154	-96.097974	383413.95	2530805.78	669.32
B-5	SUBSURFACE CONDITION BORE	25' OR 5' INTO REFUSAL	36.036480	-96.100805	382788.31	2529980.87	704.34
R-1	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.036495	-96.099984	382798.52	2530223.45	708.19
R-2	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.036216	-96.097810	382709.56	2530868.08	716.26
R-3	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.034486	-96.097652	382080.84	2530927.13	740.81
R-4	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.034102	-96.098125	381938.35	2530790.04	739.83
R-5	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.037834	-96.099794	383286.95	2530270.07	694.67
R-6	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.038761	-96.098403	383632.39	2530674.64	703.64
R-7	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.038558	-96.096608	383568.90	2531206.68	697.52
R-8	FIND TOP OF WEATHERED SHALE	25' OR 5' INTO REFUSAL	36.038019	-96.092611	383395.92	2532392.04	710.40



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



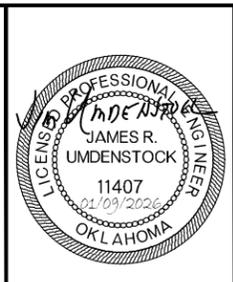
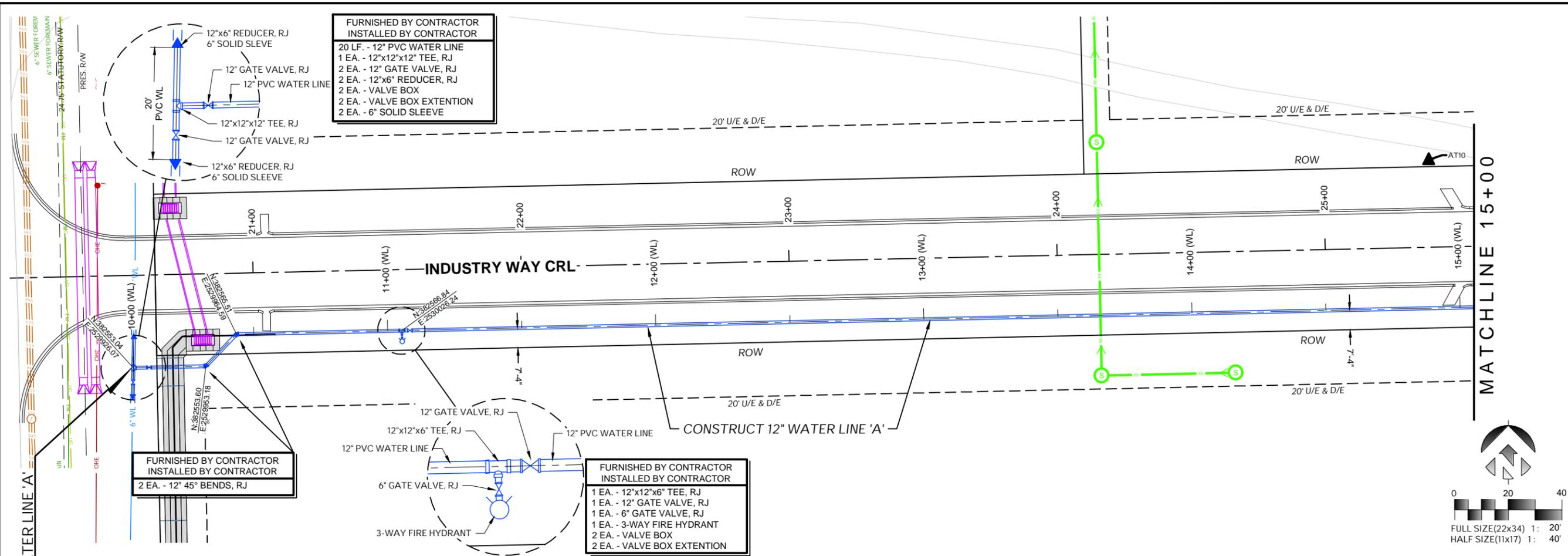
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**GEOTECHNICAL  
BORES**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	51 OF 107
DRAWING:	V2

1/9/2026 10:15:22 AM



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	

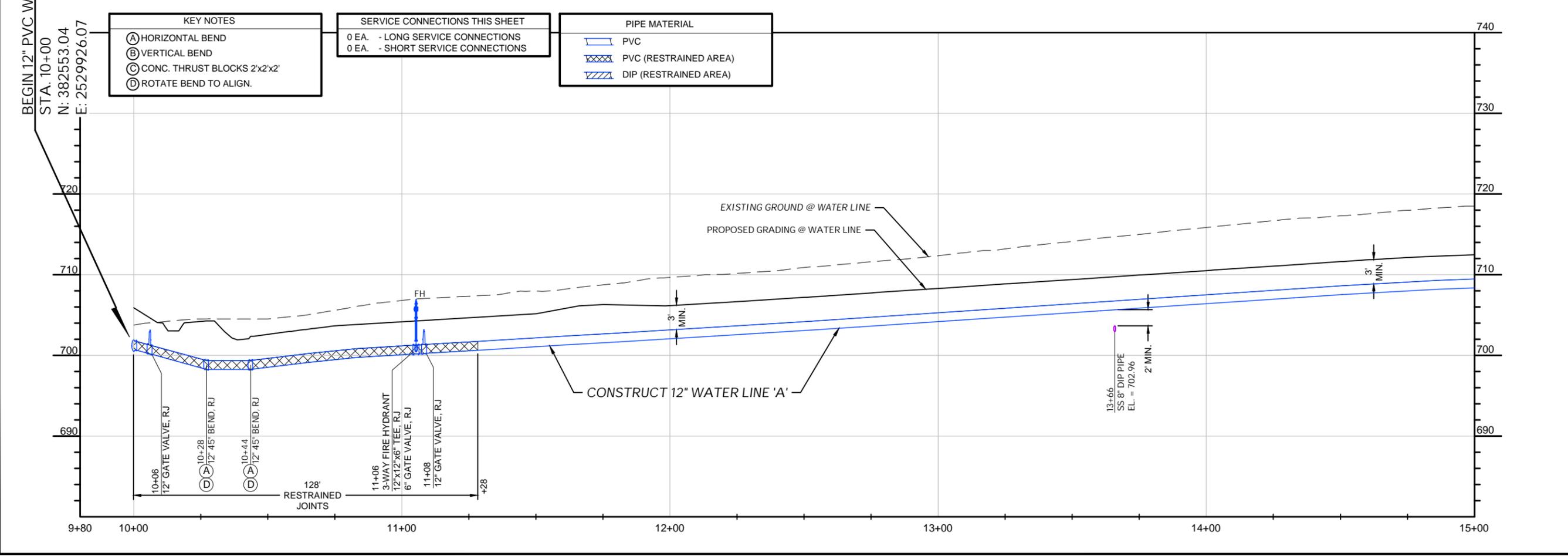


**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
P&P - WL 'A'  
STA 10+00 TO  
STA 15+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	52 OF 107
DRAWING:	W01





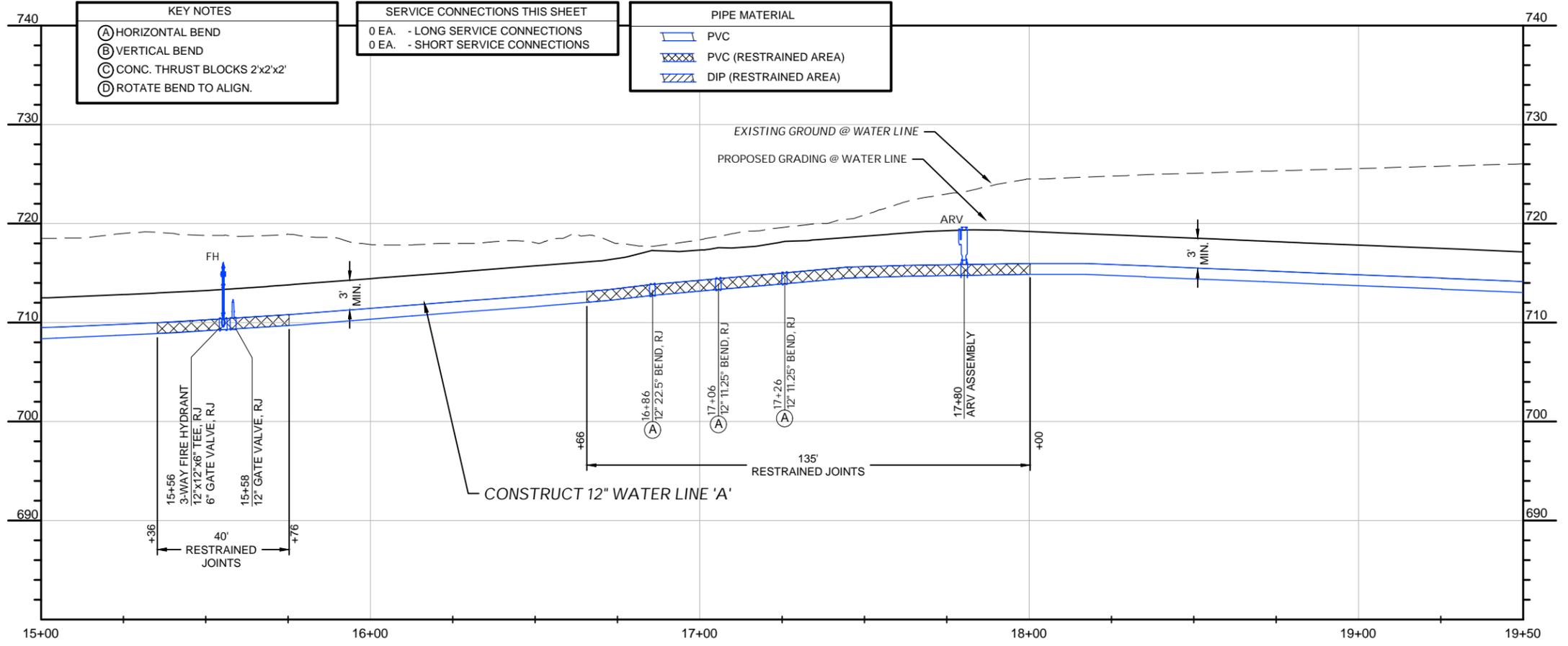
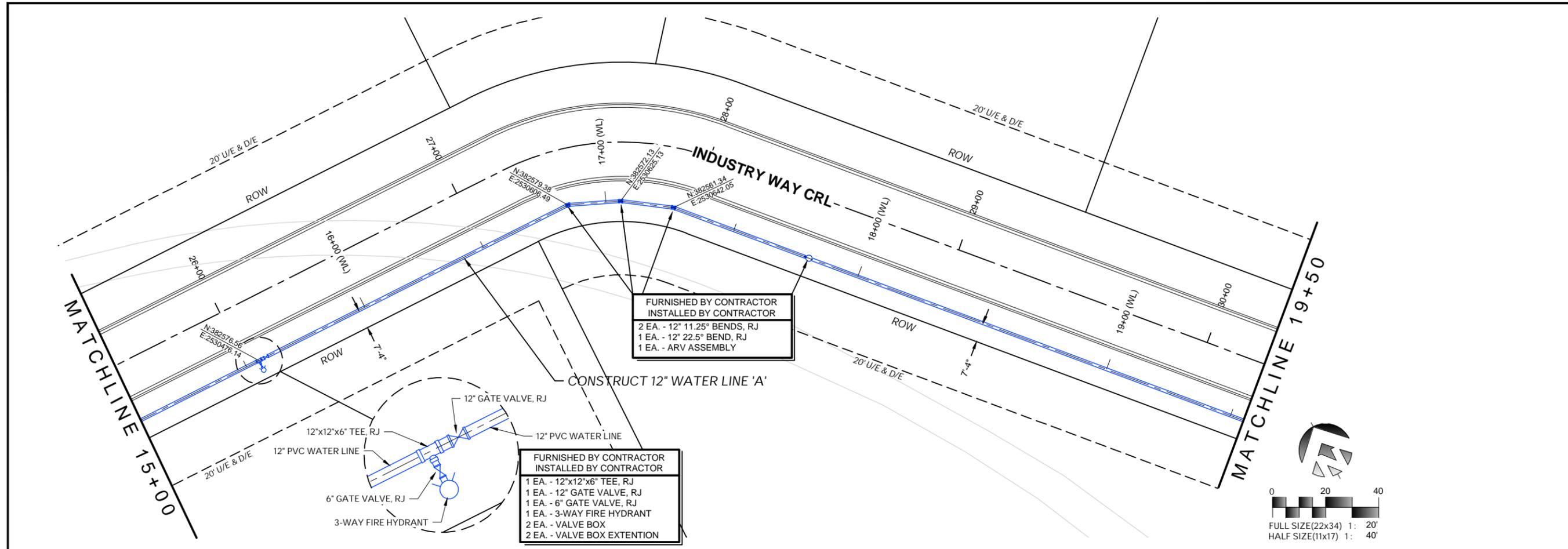
Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

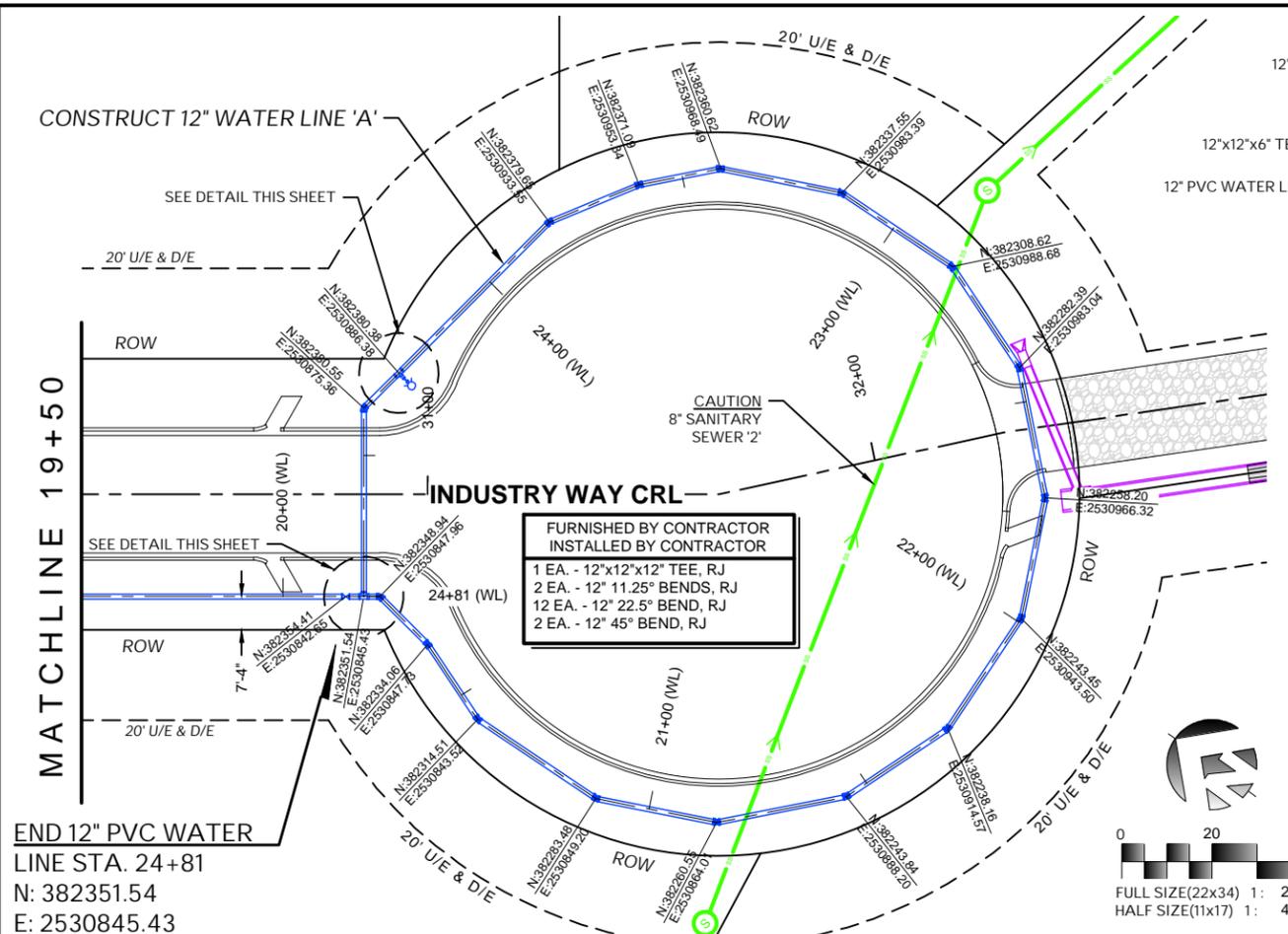
PHASE 1 (BASE BID)  
 P&P - WL 'A'  
 STA 15+00 TO  
 STA 19+50

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	53 OF 107
DRAWING:	W02

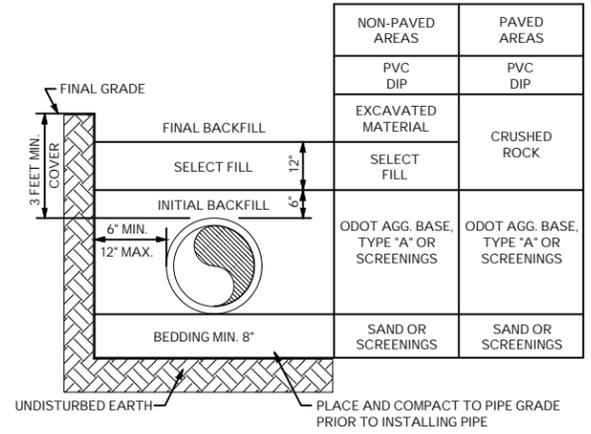
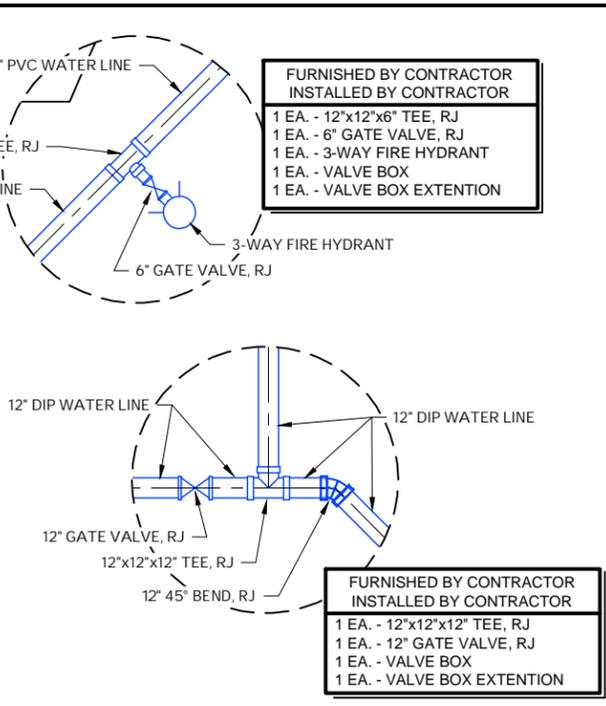


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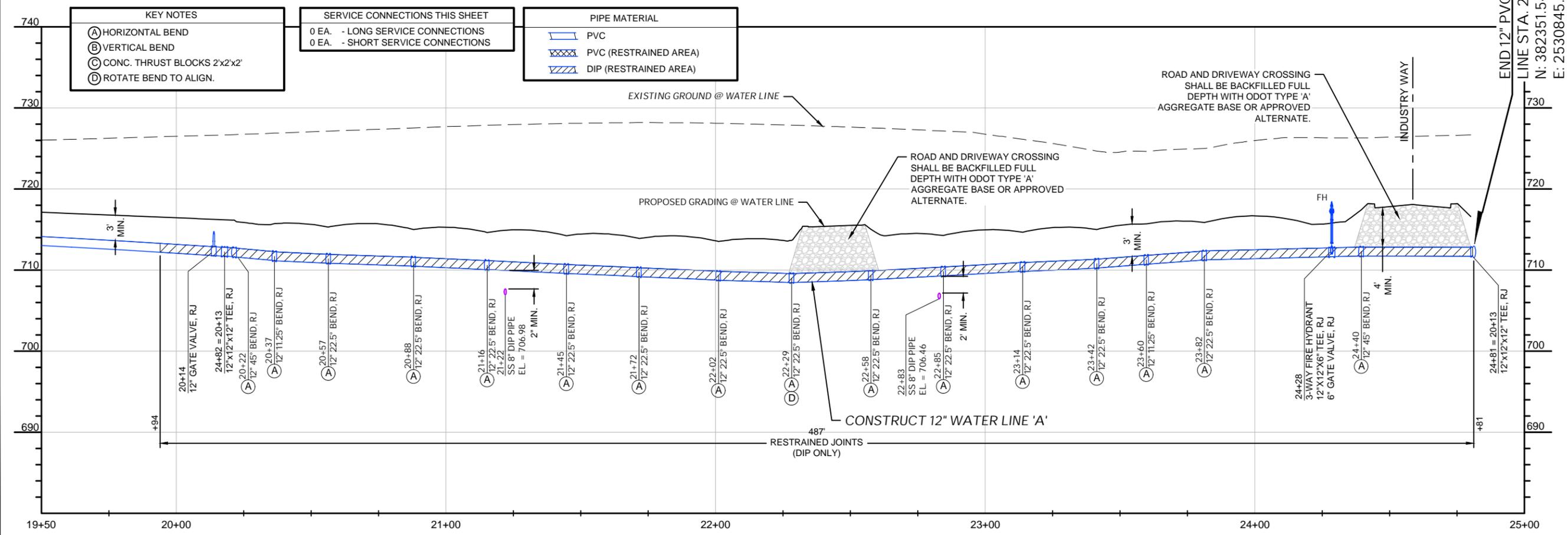
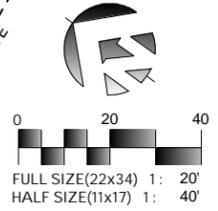
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END 12" PVC WATER LINE STA. 24+81  
 N: 382351.54  
 E: 2530845.43



NON-PAVED AREAS	PAVED AREAS
PVC DIP	PVC DIP
EXCAVATED MATERIAL	CRUSHED ROCK
SELECT FILL	CRUSHED ROCK
INITIAL BACKFILL	CRUSHED ROCK
ODOT AGG. BASE, TYPE 'A' OR SCREENINGS	ODOT AGG. BASE, TYPE 'A' OR SCREENINGS
SAND OR SCREENINGS	SAND OR SCREENINGS



KEY NOTES	SERVICE CONNECTIONS THIS SHEET	PIPE MATERIAL
(A) HORIZONTAL BEND	0 EA. - LONG SERVICE CONNECTIONS	PVC
(B) VERTICAL BEND	0 EA. - SHORT SERVICE CONNECTIONS	PVC (RESTRAINED AREA)
(C) CONC. THRUST BLOCKS 2'x2'		DIP (RESTRAINED AREA)
(D) ROTATE BEND TO ALIGN.		



Plans and Estimates Prepared by:  
**KEITHLINE ENGINEERING GROUP**  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911

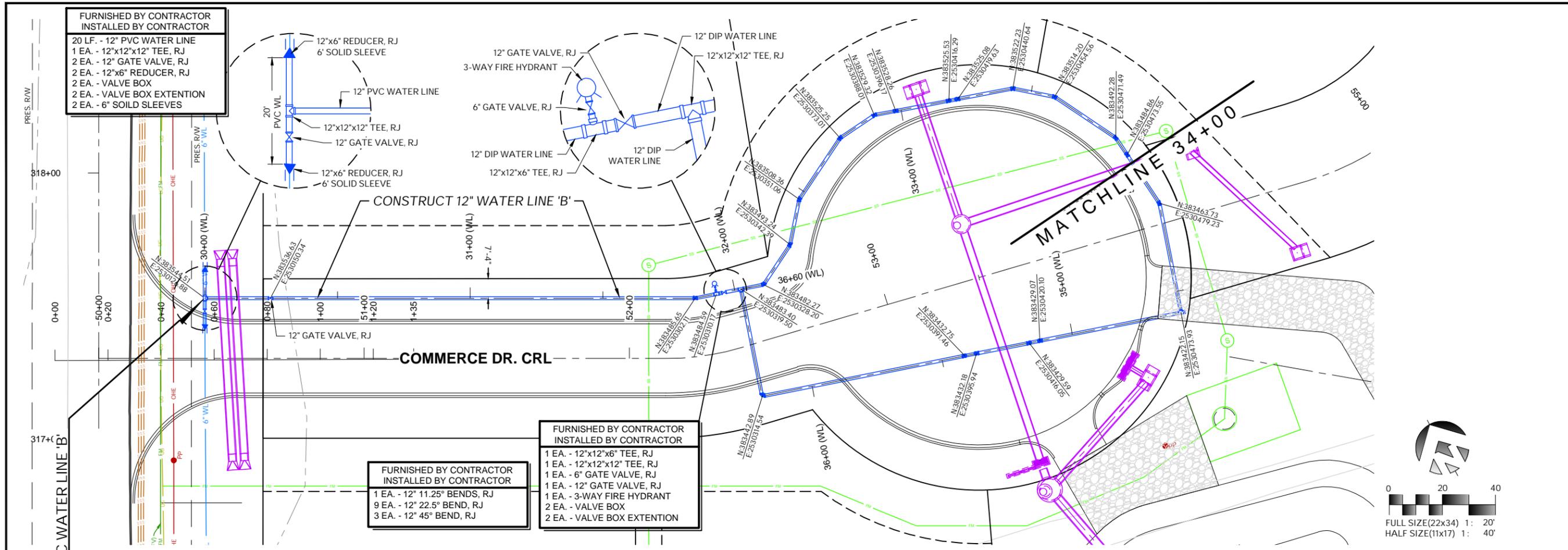


**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 P&P - WL 'A'  
 STA 19+50 TO  
 STA 24+76

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	54 OF 107
DRAWING:	W03

1/9/2026 10:16:09 AM



FURNISHED BY CONTRACTOR  
INSTALLED BY CONTRACTOR

- 20 LF. - 12" PVC WATER LINE
- 1 EA. - 12"x12"x12" TEE, RJ
- 2 EA. - 12" GATE VALVE, RJ
- 2 EA. - 12"x6" REDUCER, RJ
- 2 EA. - VALVE BOX
- 2 EA. - VALVE BOX EXTENSION
- 2 EA. - 6" SOLID SLEEVES

FURNISHED BY CONTRACTOR  
INSTALLED BY CONTRACTOR

- 1 EA. - 12" 11.25° BENDS, RJ
- 9 EA. - 12" 22.5° BEND, RJ
- 3 EA. - 12" 45° BEND, RJ

FURNISHED BY CONTRACTOR  
INSTALLED BY CONTRACTOR

- 1 EA. - 12"x12"x6" TEE, RJ
- 1 EA. - 12"x12"x12" TEE, RJ
- 1 EA. - 6" GATE VALVE, RJ
- 1 EA. - 12" GATE VALVE, RJ
- 1 EA. - 3-WAY FIRE HYDRANT
- 2 EA. - VALVE BOX
- 2 EA. - VALVE BOX EXTENSION



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
P&P - WL 'B'  
STA 30+00 TO  
STA 34+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	55 OF 107
DRAWING:	W04

BEGIN 12" PVC WATER LINE 'B'  
STA. 30+00  
N: 383544.51  
E: 2530126.88

KEY NOTES

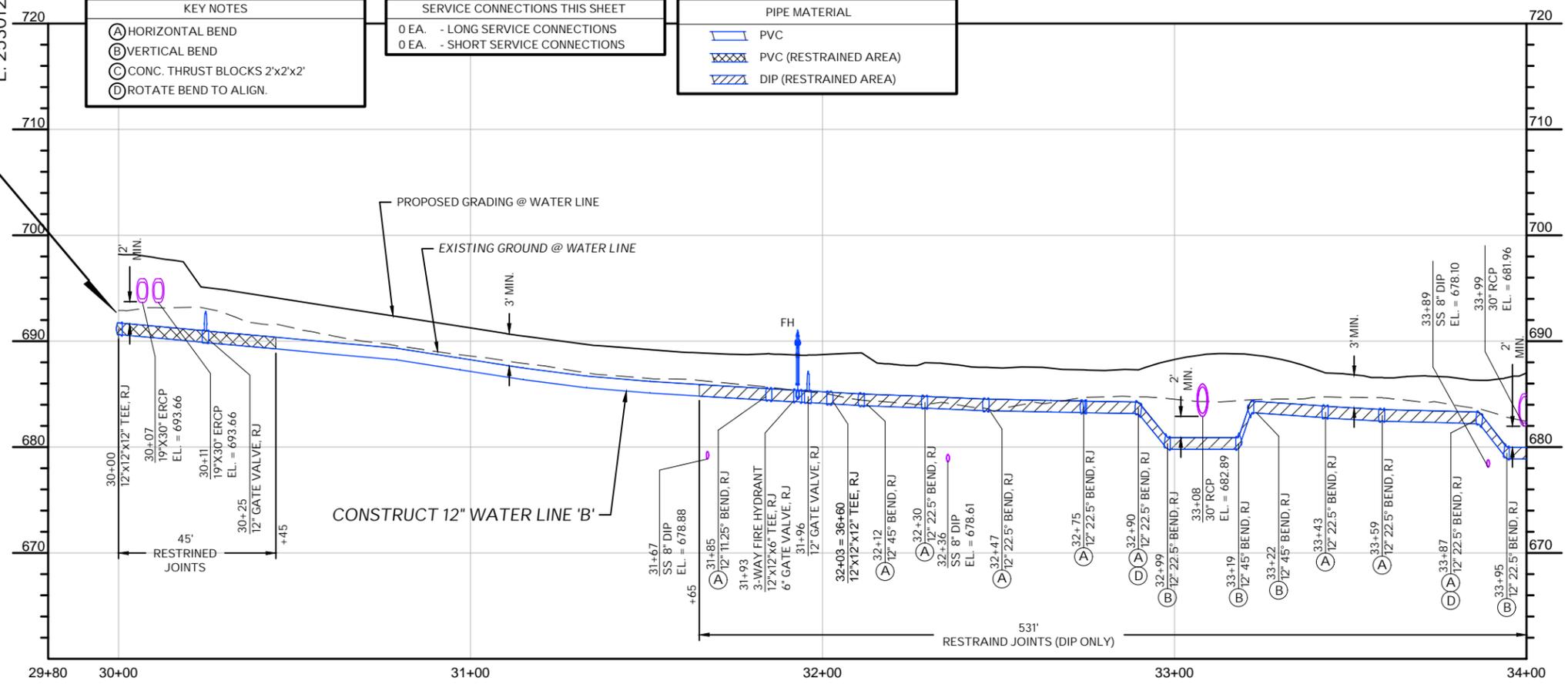
- (A) HORIZONTAL BEND
- (B) VERTICAL BEND
- (C) CONC. THRUST BLOCKS 2'x2'x2'
- (D) ROTATE BEND TO ALIGN.

SERVICE CONNECTIONS THIS SHEET

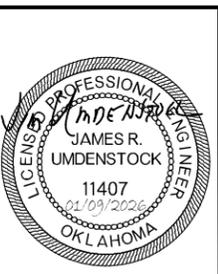
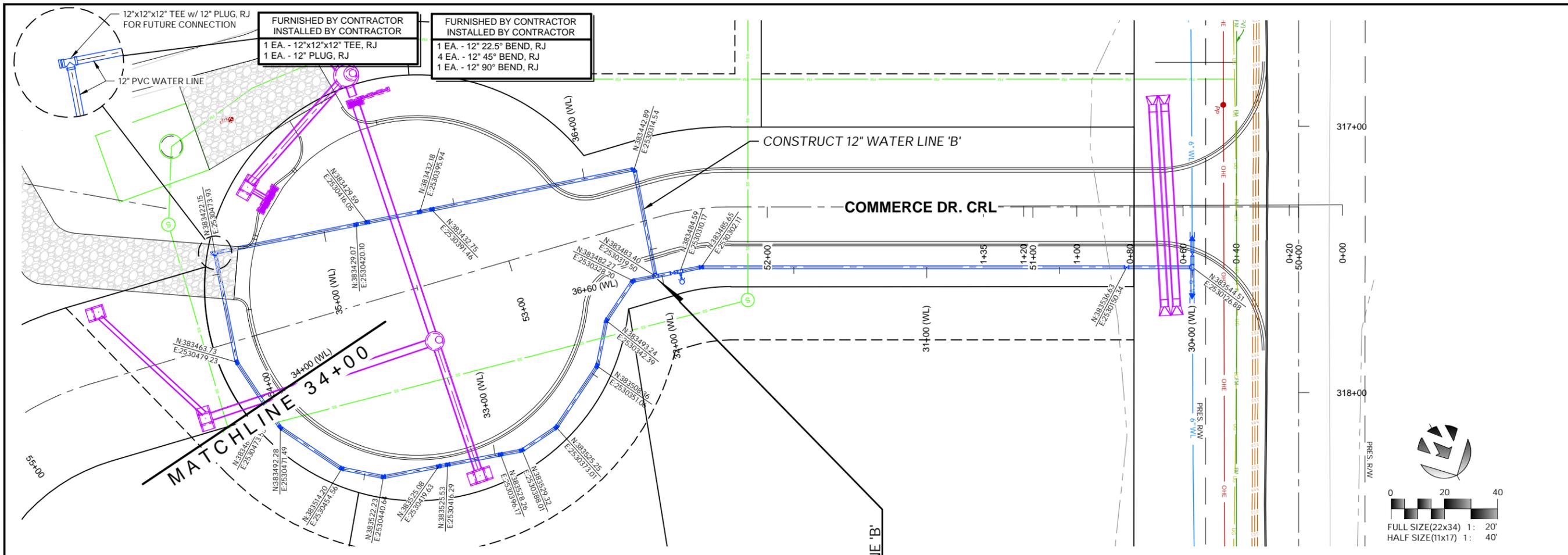
- 0 EA. - LONG SERVICE CONNECTIONS
- 0 EA. - SHORT SERVICE CONNECTIONS

PIPE MATERIAL

- PVC
- PVC (RESTRAINED AREA)
- DIP (RESTRAINED AREA)

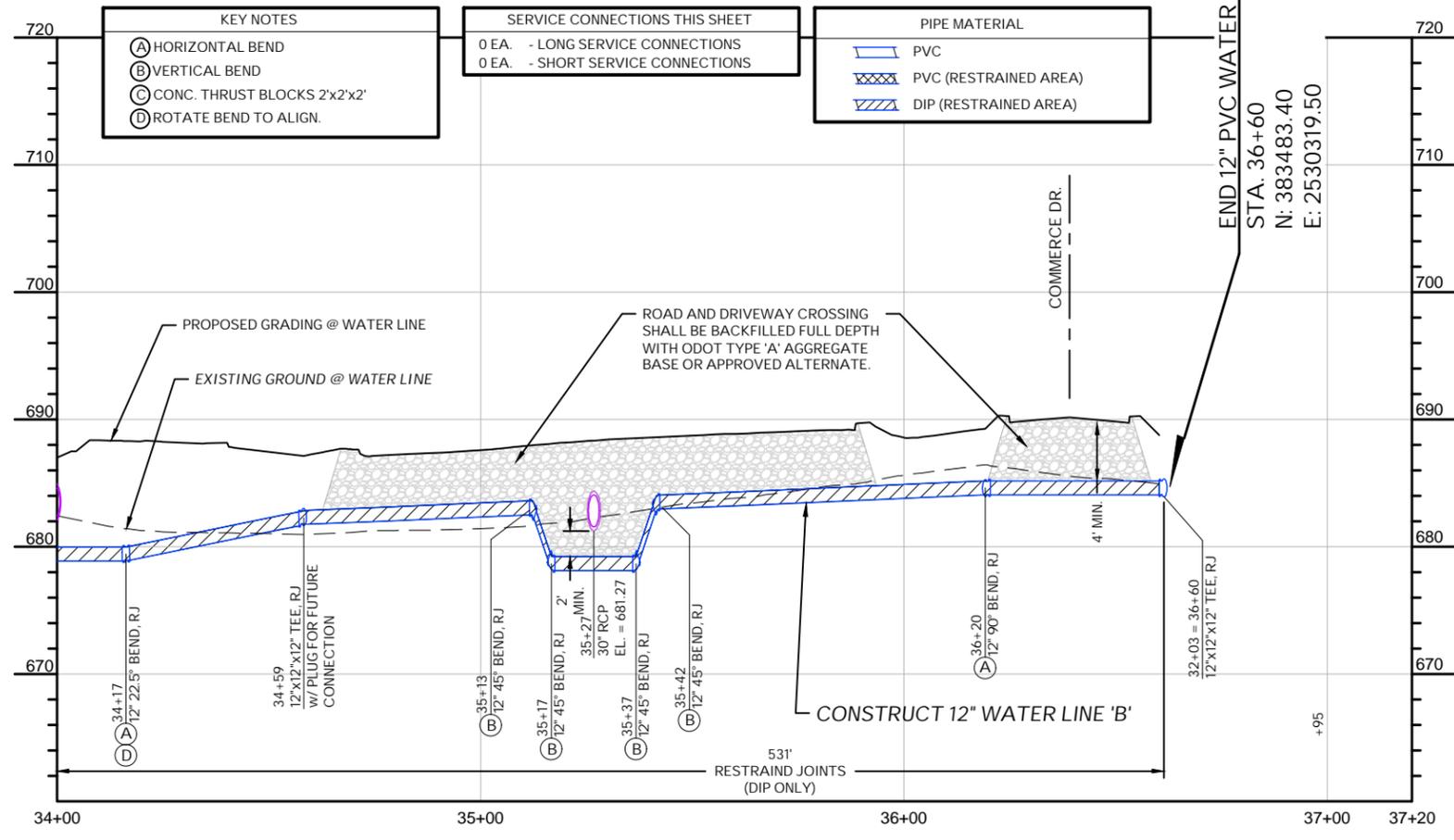
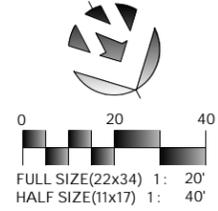


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Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971	BY	
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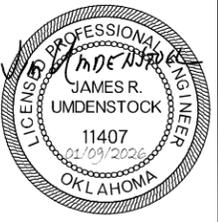
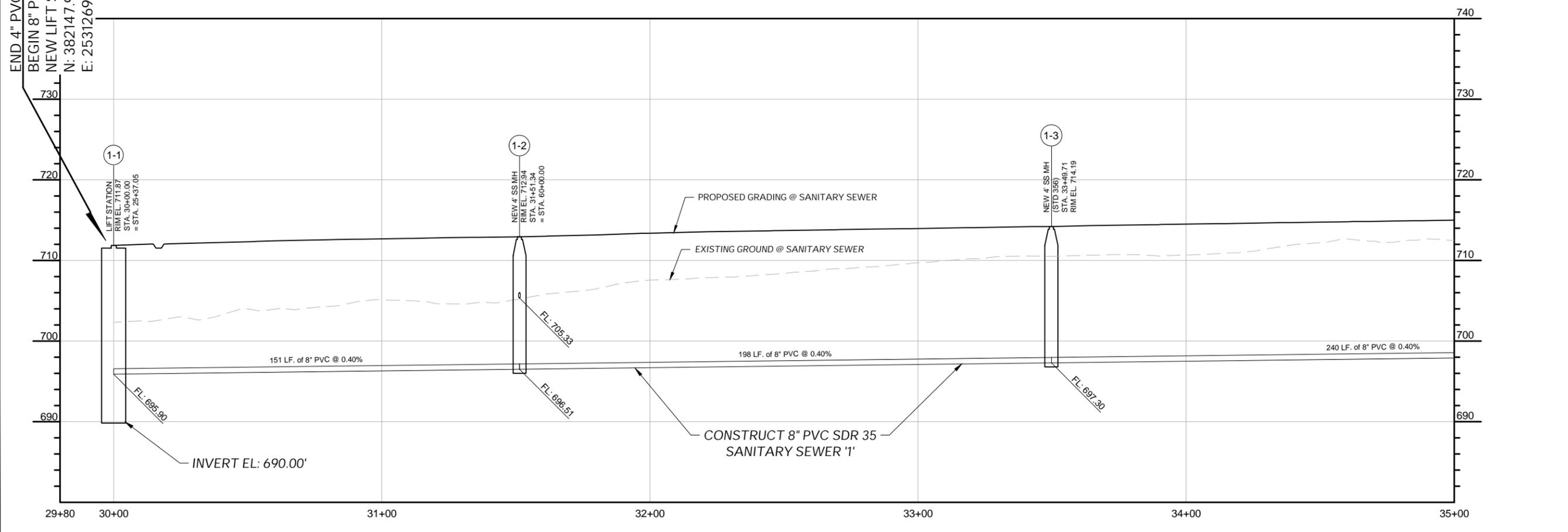
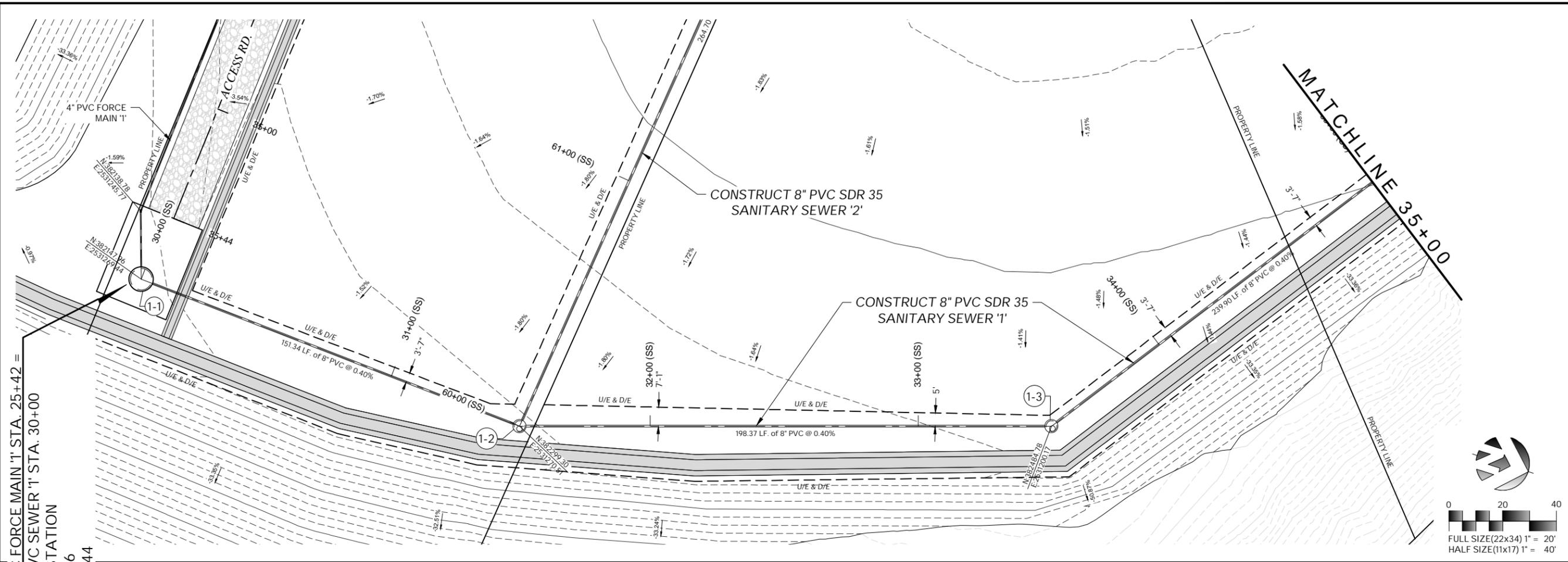


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
 P&P - WL 'B'  
 STA 34+00 TO  
 STA 36+95

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	56 OF 107
DRAWING:	W05

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	8554 E. 101ST ST., STE. C, TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

PHASE 1 (BASE BID)  
PLAN & PROFILE  
SANITARY SEWER '1'  
STA. 30+00 TO 35+00

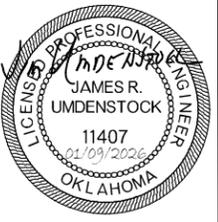
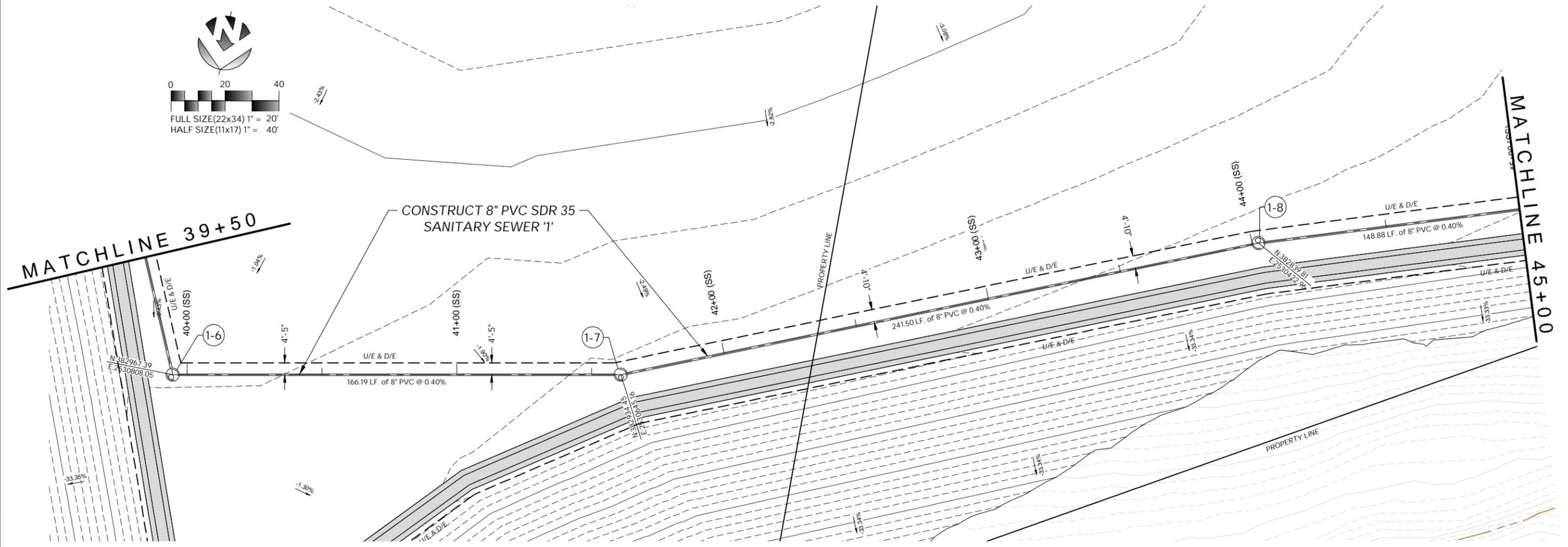
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	57 OF 107
DRAWING:	S01





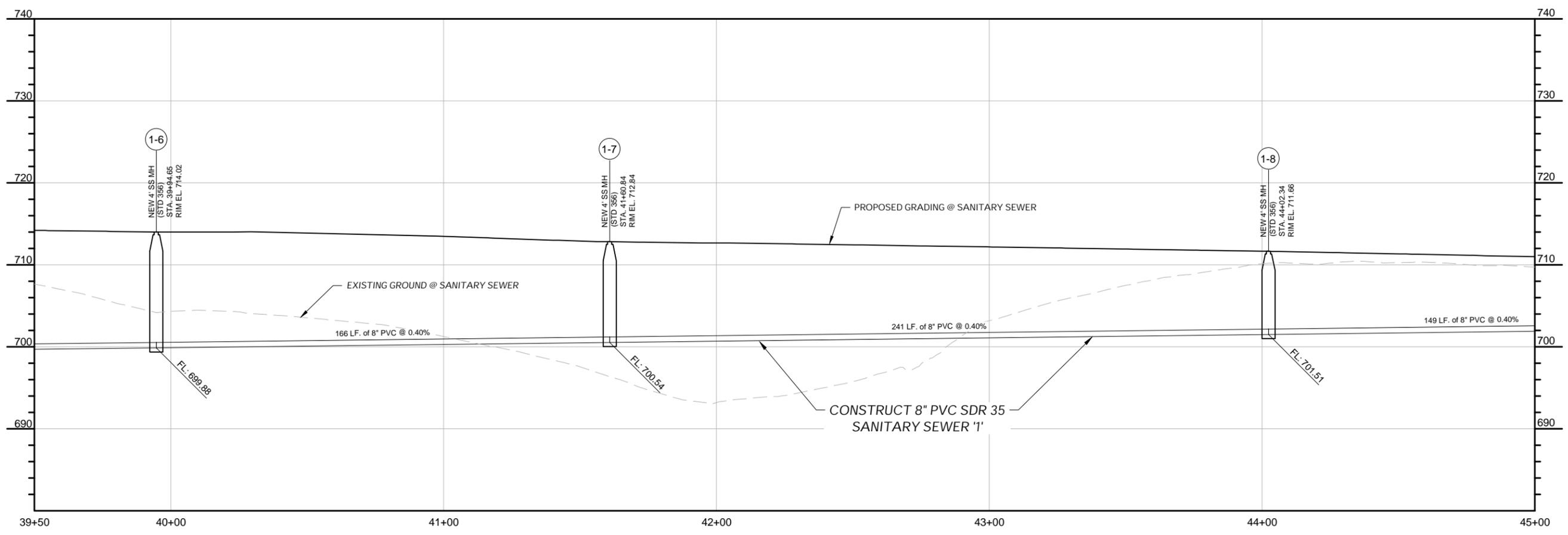
MATCHLINE 39+50

MATCHLINE 45+00



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		REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

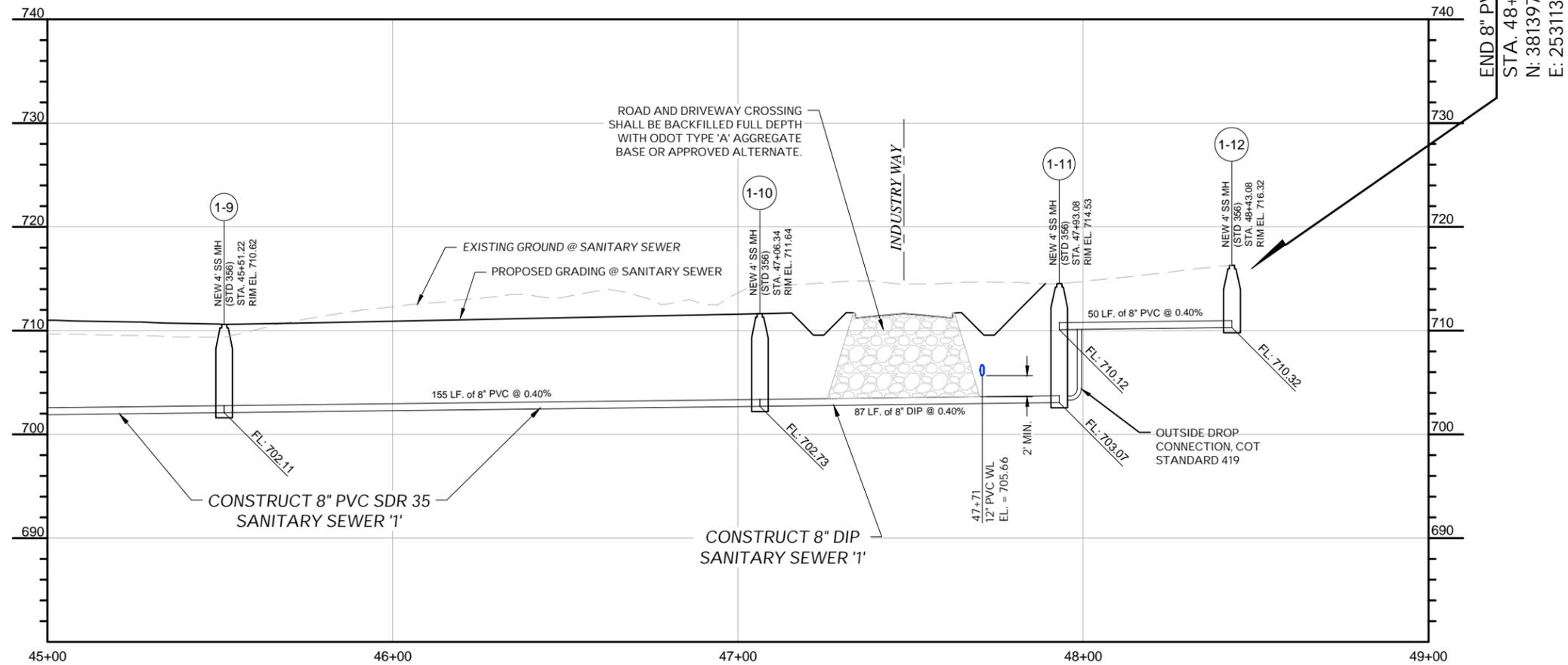
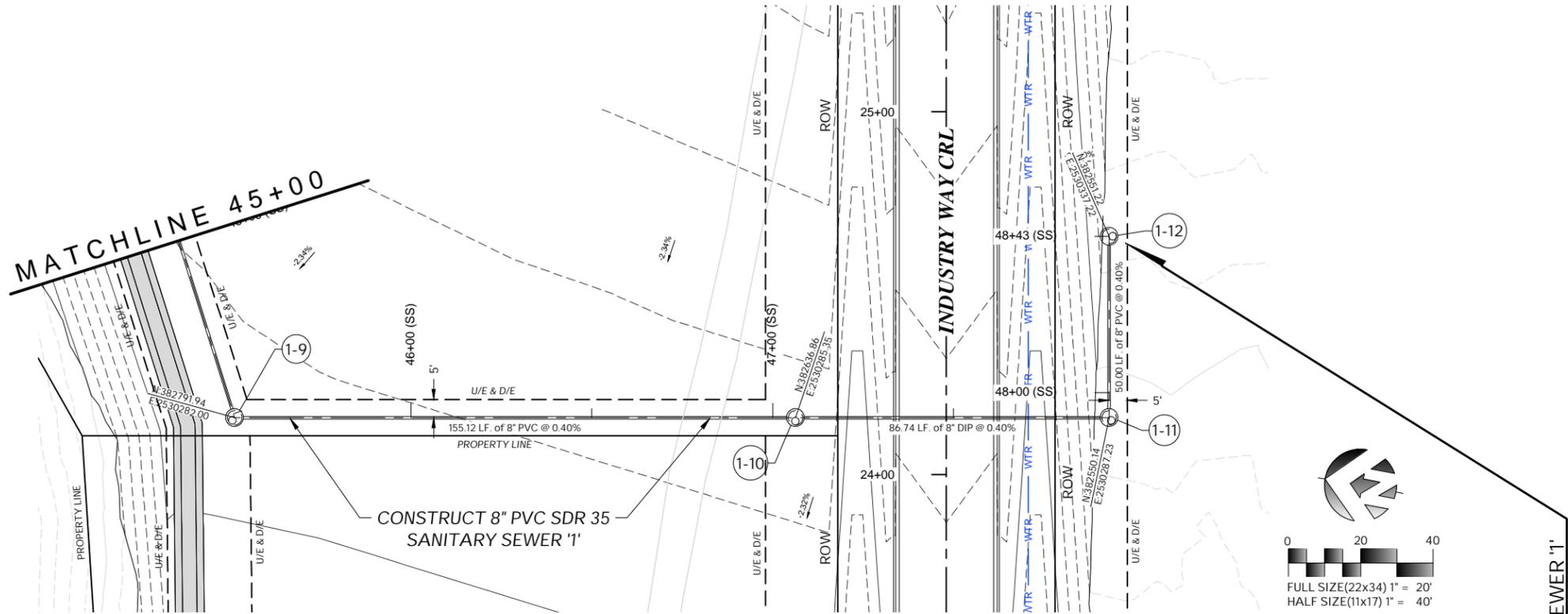
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PLAN & PROFILE  
SANITARY SEWER '1'  
STA. 39+50 TO 45+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	59 OF 107
DRAWING:	S03

1/9/2026 10:16:52 AM

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END 8" PVC SEWER '1'  
 STA. 48+43  
 N: 381397.90  
 E: 2531135.94



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		REVISION	



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 SANITARY SEWER '1'  
 STA. 45+00 TO 48+43

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	60 OF 107
DRAWING:	S04





Plans and Estimates Prepared by:

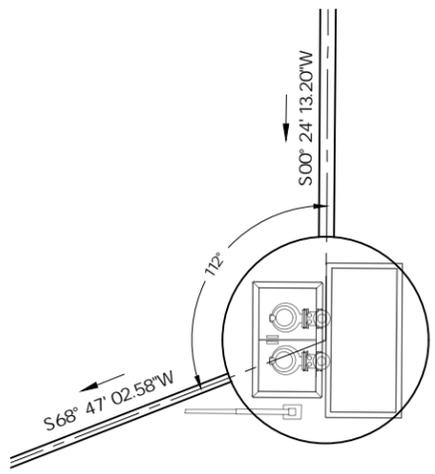
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		REVISION	



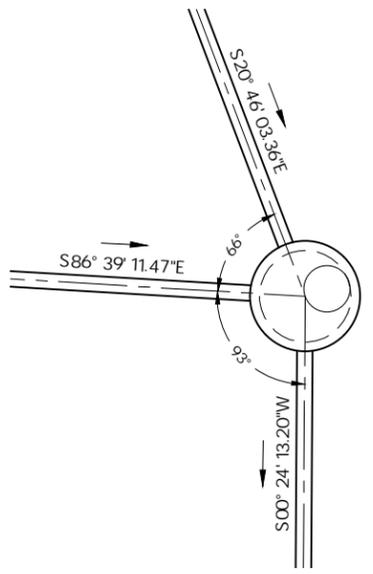
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT  
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
SANITARY SEWER  
MANHOLE  
DETAILS

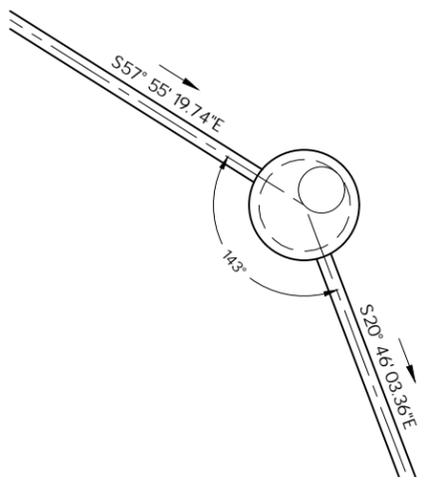
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DESIGNED	DAK, JRJ, MAW (KEG)
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DATE	JANUARY 9, 2026
SHEET:	62 OF 107
DRAWING:	S06



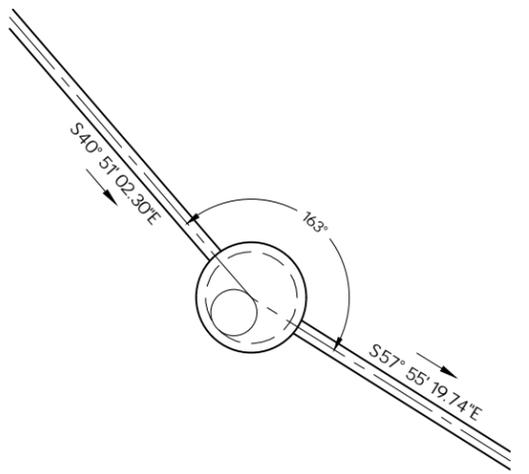
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NEW LIFT STATION  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



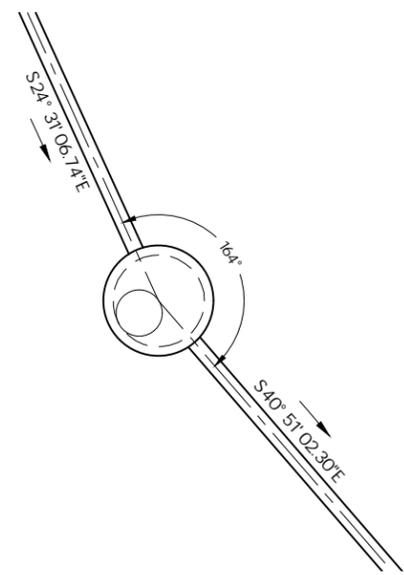
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NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



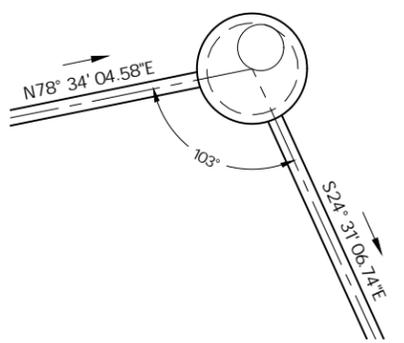
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NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



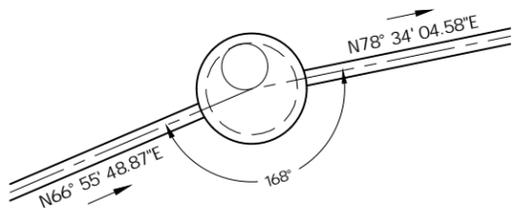
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NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



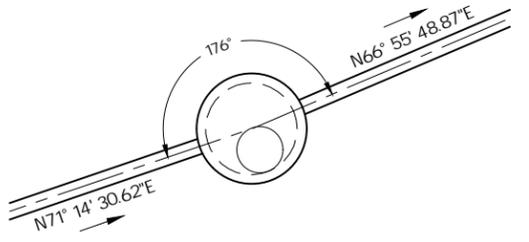
1-5 STA. 36+76  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



1-6 STA. 39+95  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8

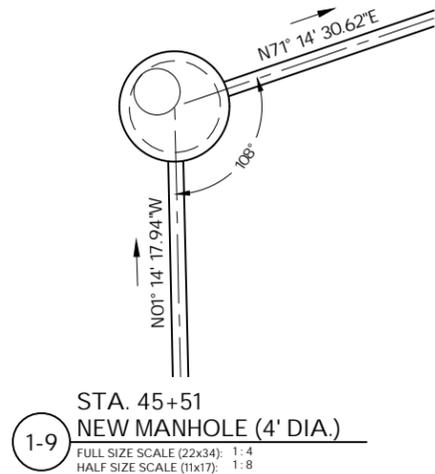


1-7 STA. 41+61  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8

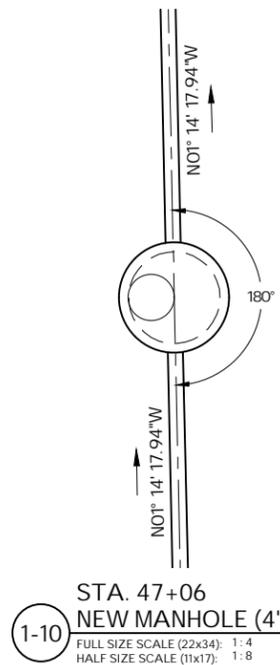


1-8 STA. 44+02  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8

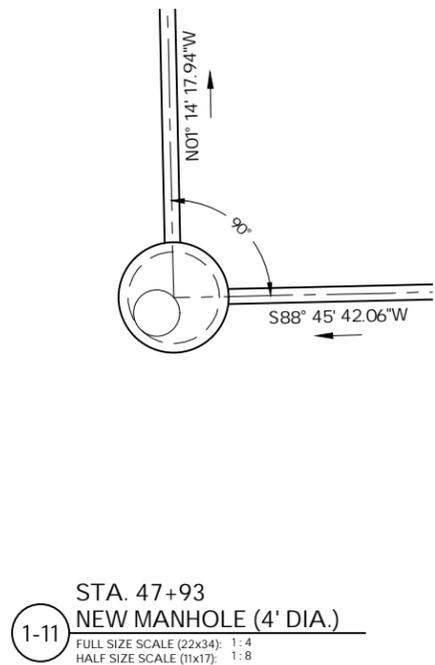
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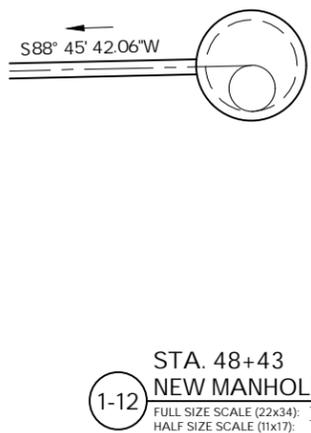
1-9 STA. 45+51  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



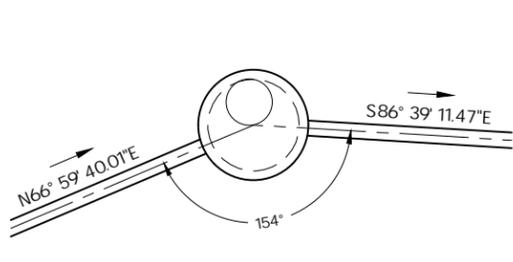
1-10 STA. 47+06  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



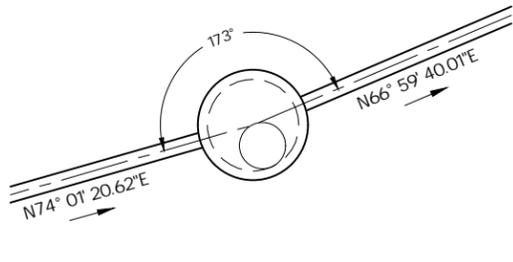
1-11 STA. 47+93  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



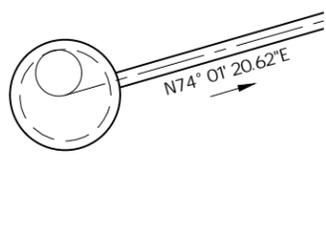
1-12 STA. 48+43  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



2-1 STA. 62+65  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



2-2 STA. 64+39  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



2-3 STA. 64+96  
NEW MANHOLE (4' DIA.)  
FULL SIZE SCALE (22x34): 1:4  
HALF SIZE SCALE (11x17): 1:8



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		DATE	
		REVISION	

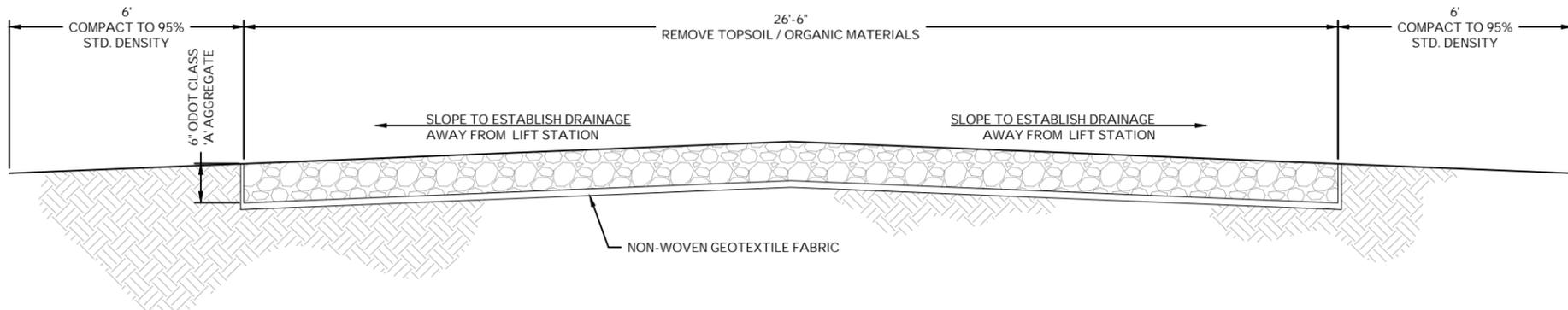
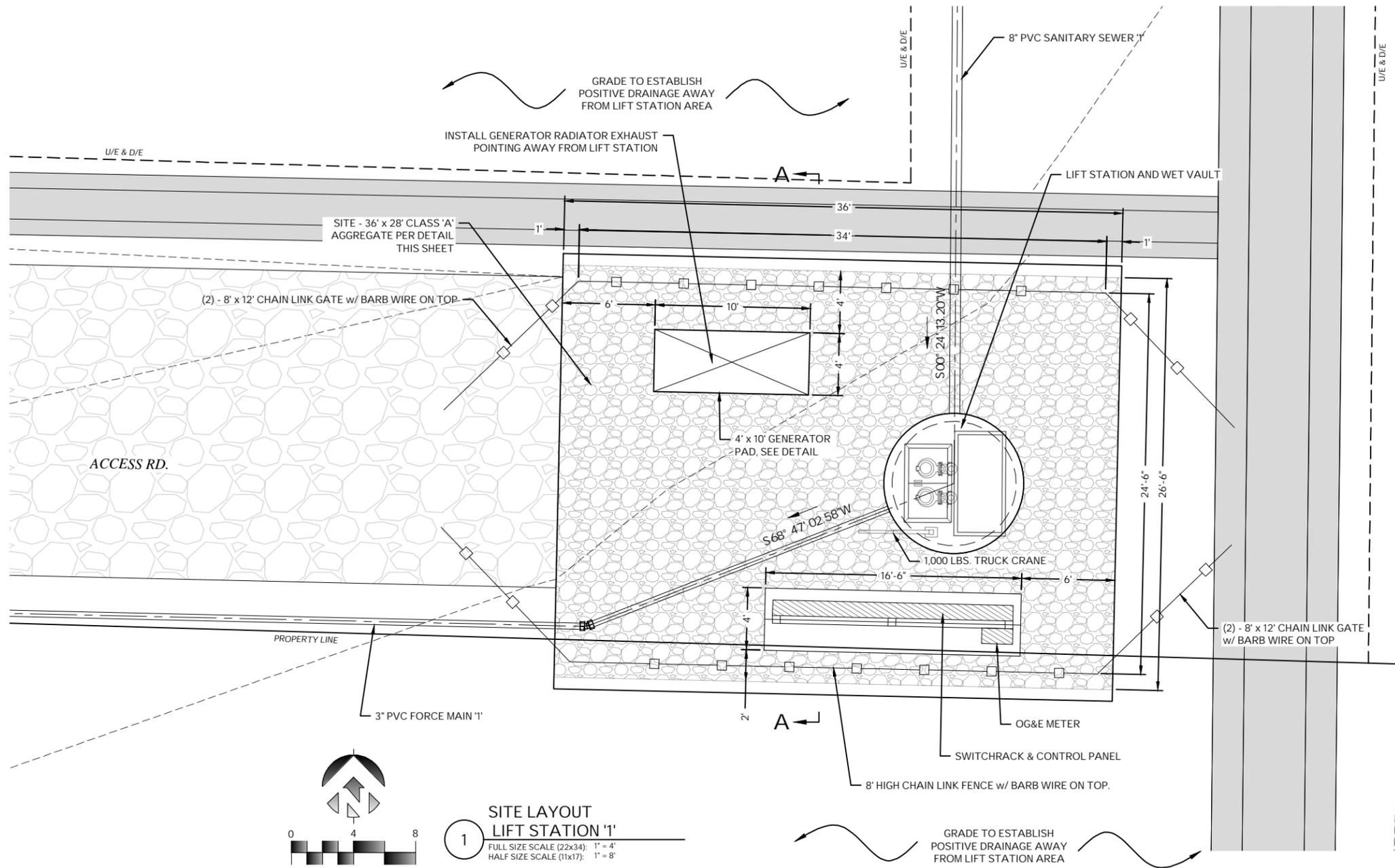


ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT  
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
SANITARY SEWER  
MANHOLE  
DETAILS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	63 OF 107
DRAWING:	S07

1/9/2026 10:18:25 AM



**1 SITE LAYOUT LIFT STATION '1'**  
 FULL SIZE SCALE (22x34): 1" = 4'  
 HALF SIZE SCALE (11x17): 1" = 8'

**2 SECTION A-A LIFT STATION SITE PAD**  
 FULL SIZE SCALE (22x34): NTS  
 HALF SIZE SCALE (11x17): NTS



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY		DATE	
		REVISION			



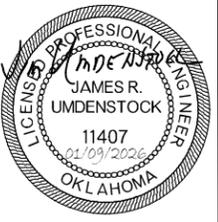
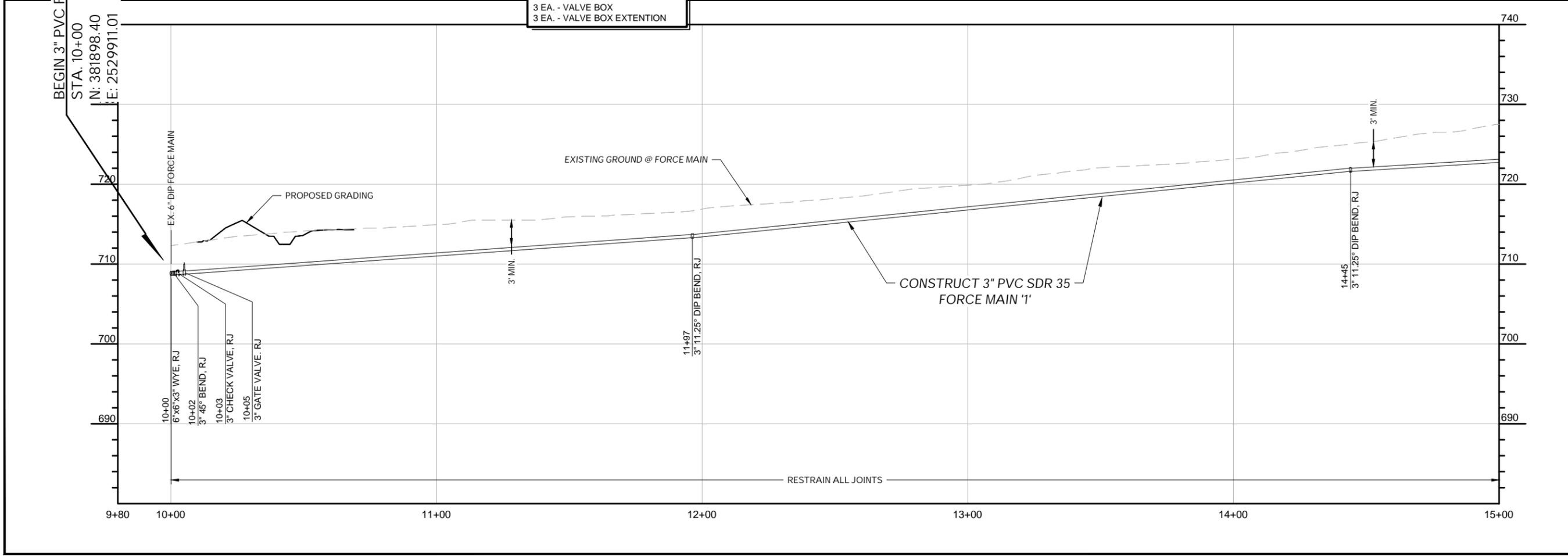
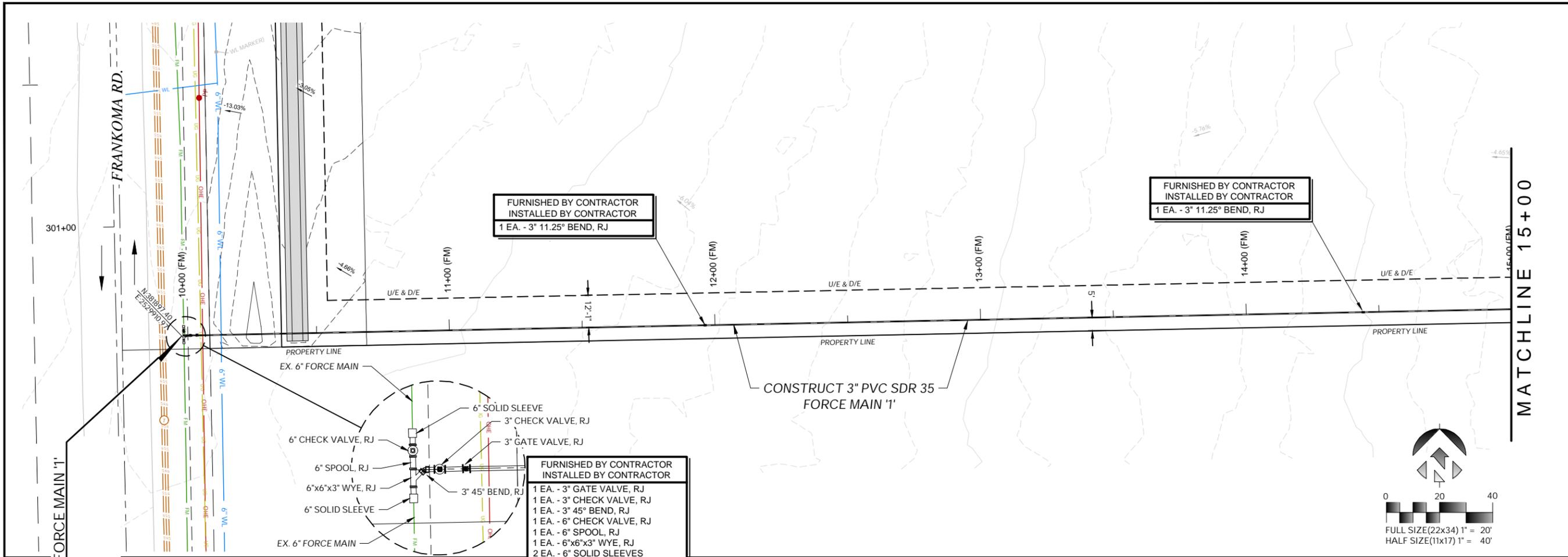
**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
 LIFT STATION '1'  
 SITE PLAN**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	64 OF 107
DRAWING:	S08

1/9/2026 10:18:34 AM



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



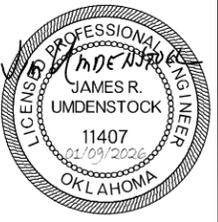
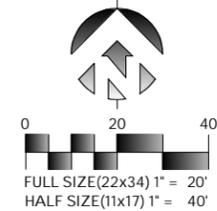
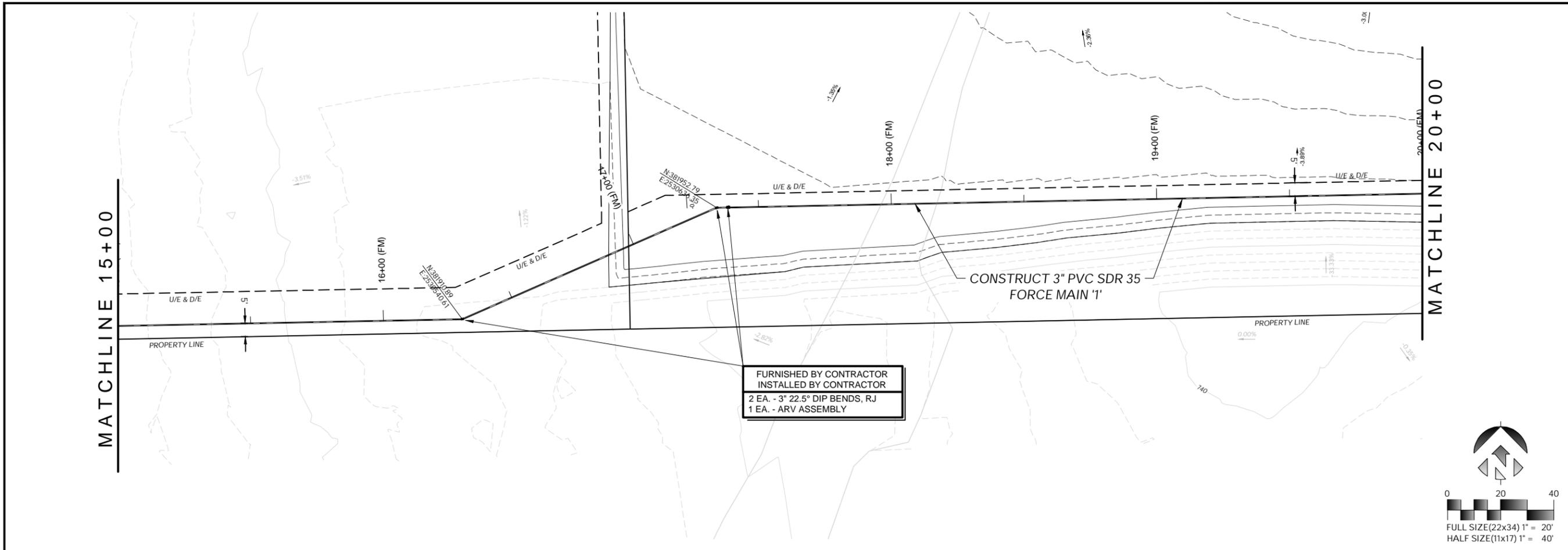
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PLAN & PROFILE  
FORCE MAIN '1'  
STA. 10+00 TO 15+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	65 OF 107
DRAWING:	S09

1/9/2026 10:18:44 AM



Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	DATE
	REVISION	

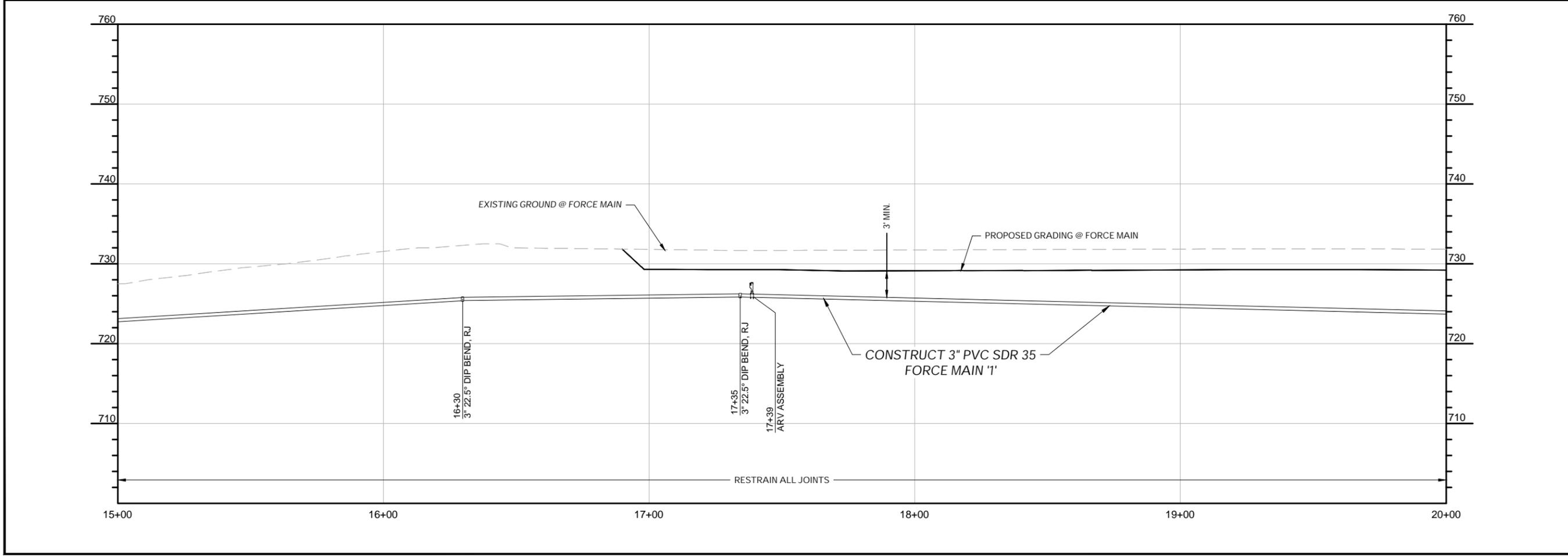


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

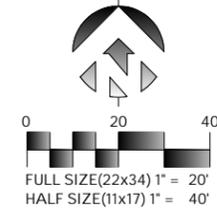
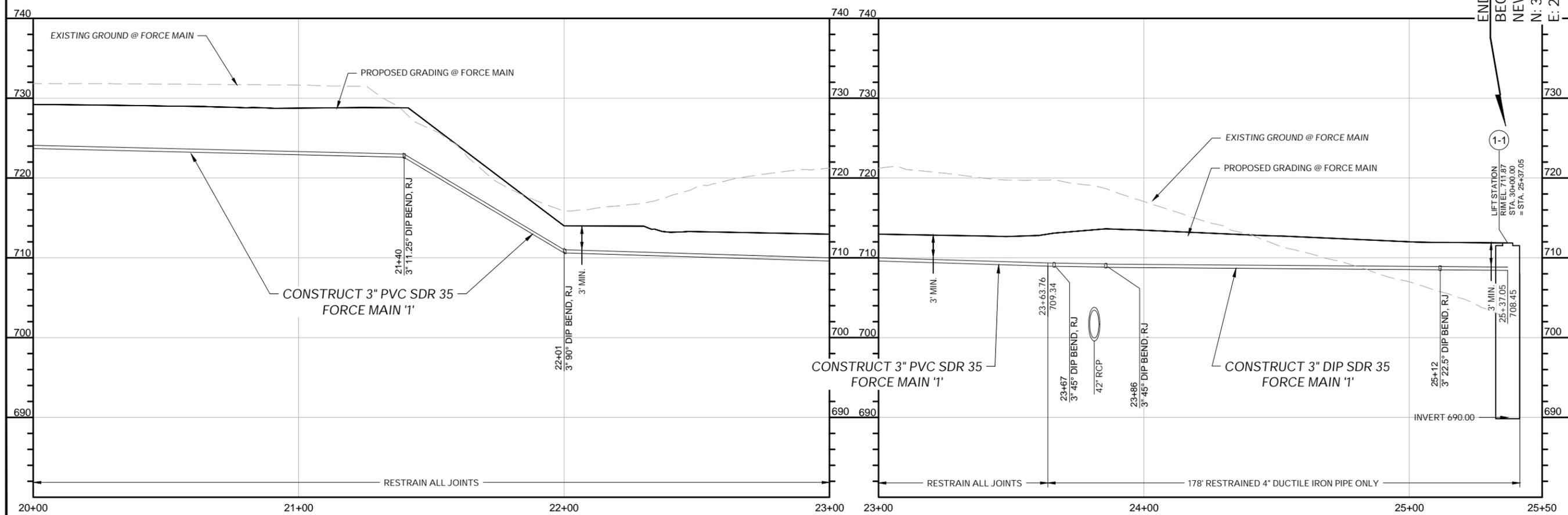
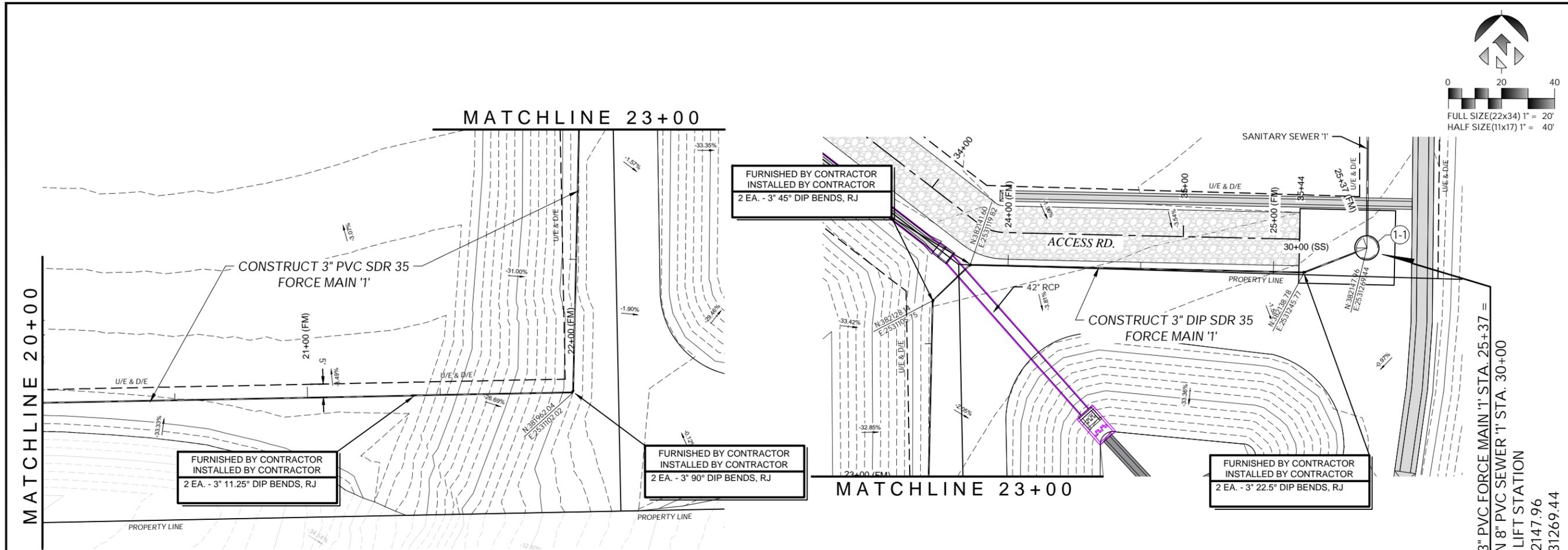
SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 PLAN & PROFILE  
 FORCE MAIN '1'  
 STA. 15+00 TO 20+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	66 OF 107
DRAWING:	S10



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Plans and Estimates Prepared by:

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		REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

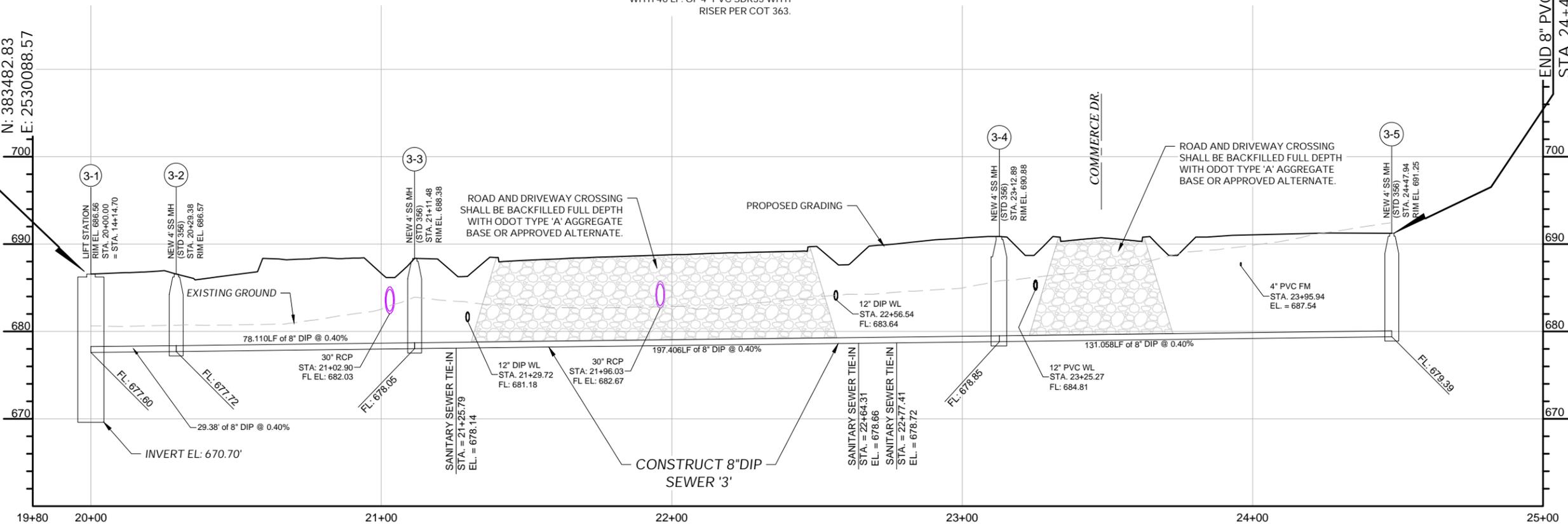
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PLAN & PROFILE  
FORCE MAIN '1'  
STA. 20+00 TO 25+42

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	67 OF 107
DRAWING:	S11

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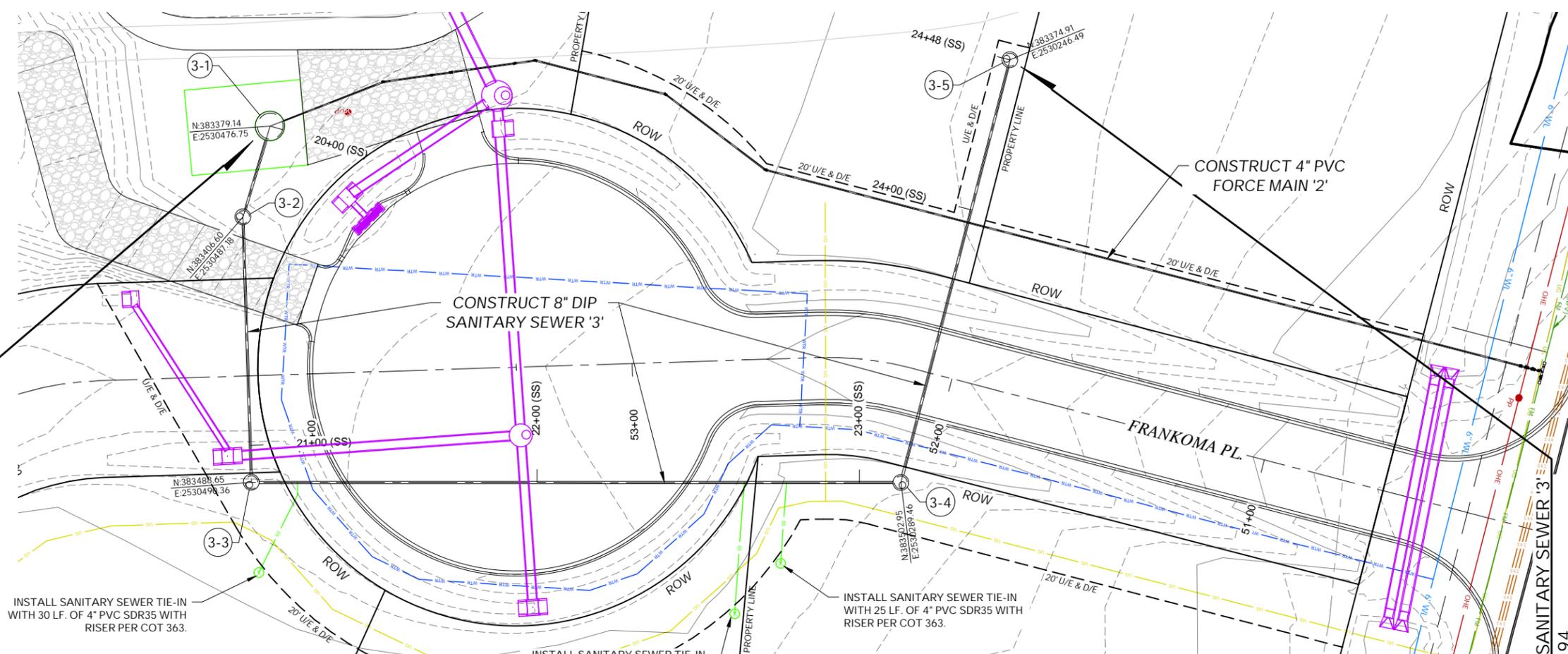
BEGIN 8" SANITARY SEWER '3'  
NEW LIFT STATION  
STA. 20+00  
N: 383482.83  
E: 2530088.57



INSTALL SANITARY SEWER TIE-IN WITH 30 LF. OF 4" PVC SDR35 WITH RISER PER COT 363.

INSTALL SANITARY SEWER TIE-IN WITH 40 LF. OF 4" PVC SDR35 WITH RISER PER COT 363.

INSTALL SANITARY SEWER TIE-IN WITH 25 LF. OF 4" PVC SDR35 WITH RISER PER COT 363.



END 8" PVC SANITARY SEWER '3'  
STA. 24+47.94  
N: 383374.91  
E: 250246.49



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT  
SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
PLAN & PROFILE  
SANTIARY SEWER '3'  
STA 20+00 TO 24+48

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	68 OF 107
DRAWING:	S12



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8556 E. 101ST ST., STE. C TULSA, OKLAHOMA 74133 (918) 369-7911

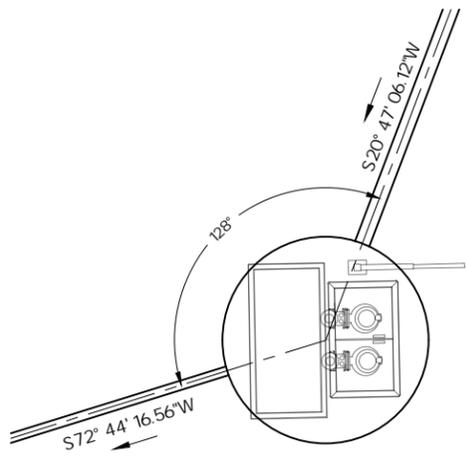
REVISION	DATE



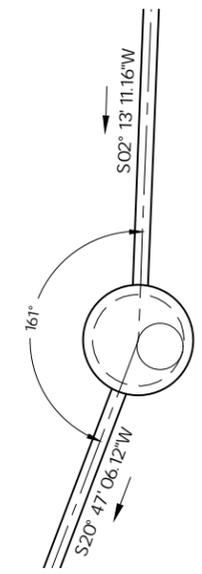
**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PHASE 2 (ALT. 2)  
 SANITARY SEWER  
 MANHOLE  
 DETAILS**

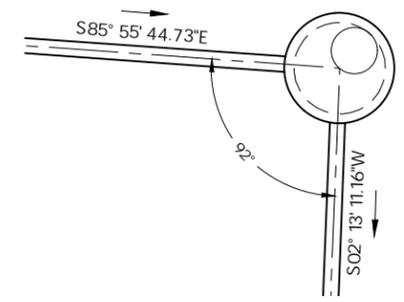
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
<b>SHEET:</b>	<b>69 OF 107</b>
<b>DRAWING:</b>	<b>S13</b>



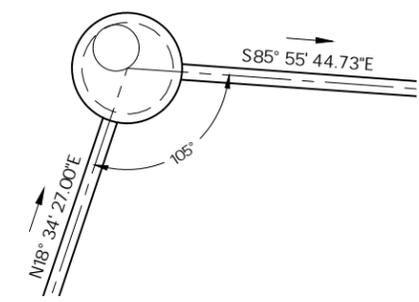
**3-1** STA. 14+15 = STA. 20+00  
**NEW LIFT STATION**  
 FULL SIZE SCALE (22x34): 1:4  
 HALF SIZE SCALE (11x17): 1:8



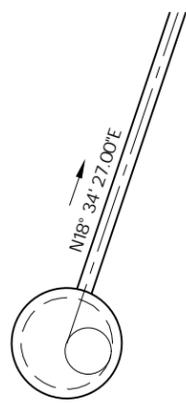
**3-2** STA. 20+29  
**NEW MANHOLE (4' DIA.)**  
 FULL SIZE SCALE (22x34): 1:4  
 HALF SIZE SCALE (11x17): 1:8



**3-3** STA. 21+11  
**NEW MANHOLE (4' DIA.)**  
 FULL SIZE SCALE (22x34): 1:4  
 HALF SIZE SCALE (11x17): 1:8

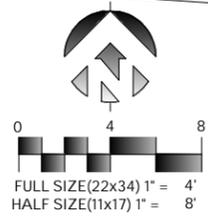
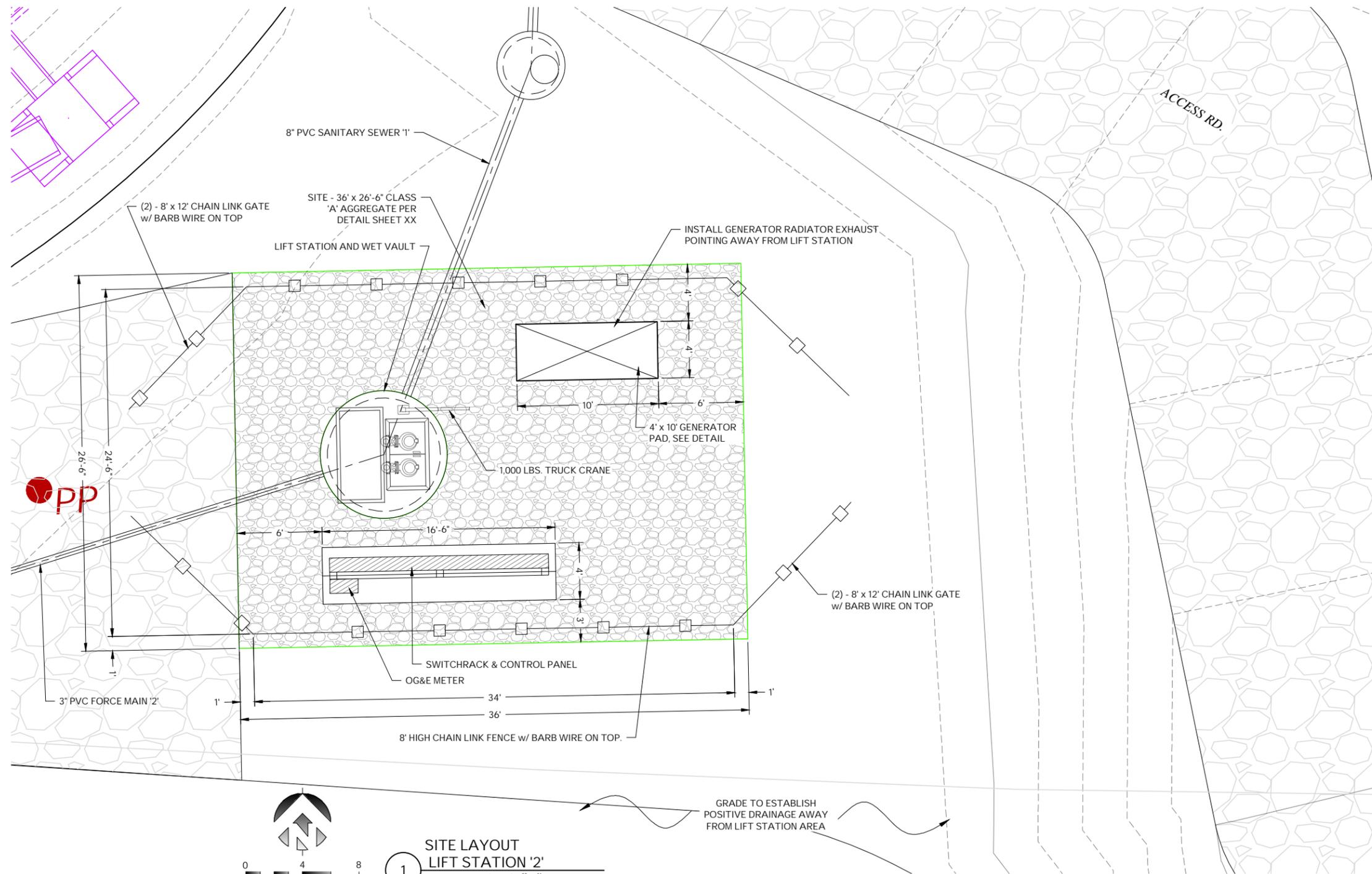


**3-4** STA. 23+13  
**NEW MANHOLE (4' DIA.)**  
 FULL SIZE SCALE (22x34): 1:4  
 HALF SIZE SCALE (11x17): 1:8

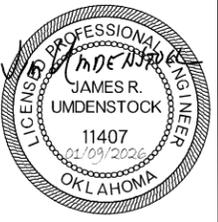


**3-5** STA. 24+48  
**NEW MANHOLE (4' DIA.)**  
 FULL SIZE SCALE (22x34): 1:4  
 HALF SIZE SCALE (11x17): 1:8

1/9/2026 10:19:03 AM



**1 SITE LAYOUT LIFT STATION '2'**  
 FULL SIZE SCALE (22x34): 1" = 4'  
 HALF SIZE SCALE (11x17): 1" = 8'



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



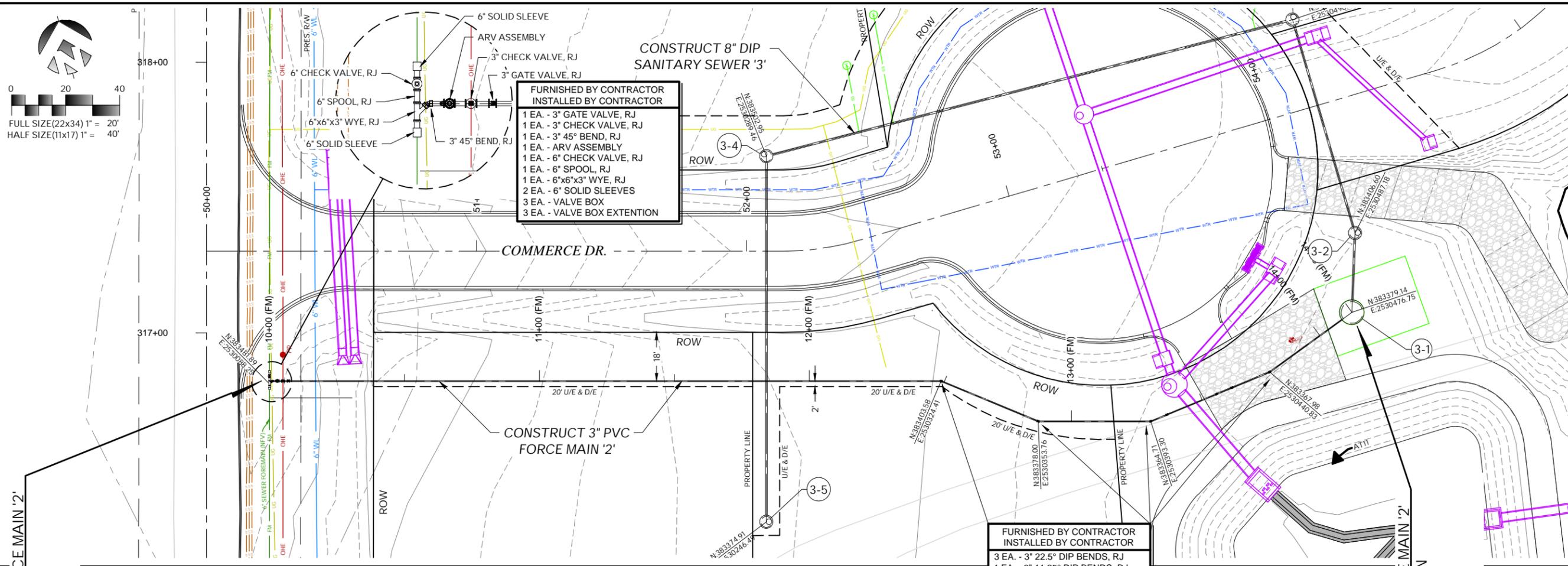
**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**LIFT STATION '2'  
 SITE PLAN**

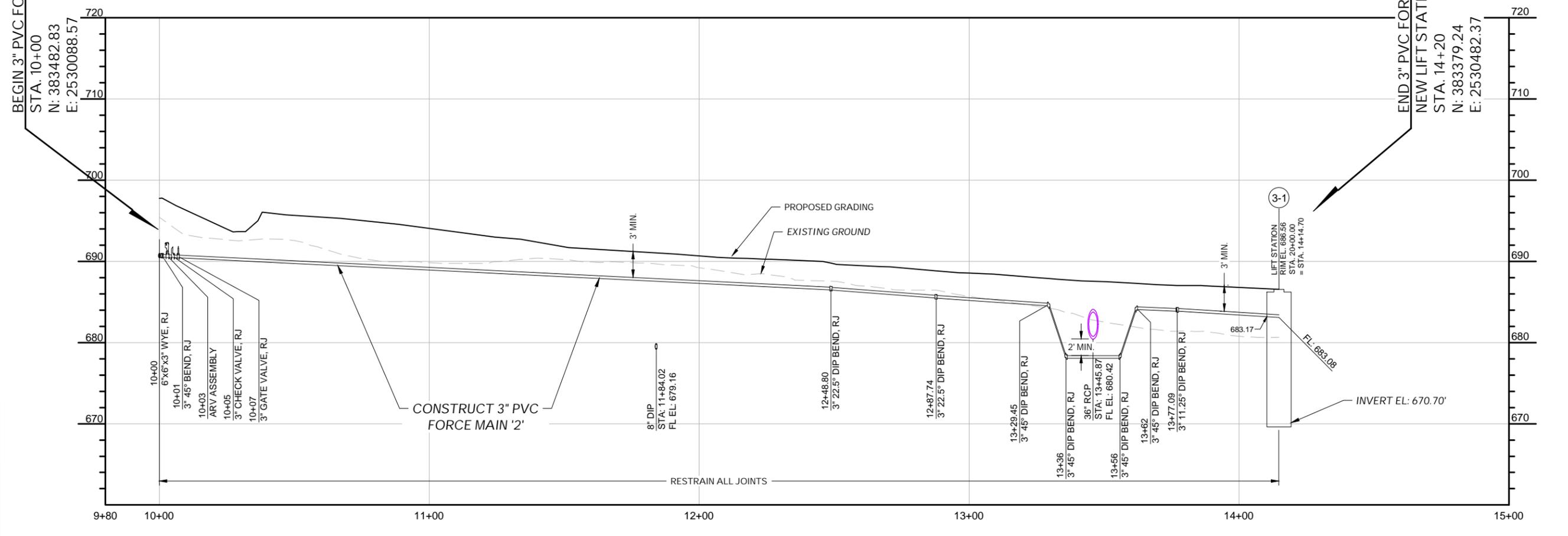
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
<b>SHEET:</b>	<b>70 OF 107</b>
<b>DRAWING:</b>	<b>S14</b>

1/9/2026 10:19:12 AM



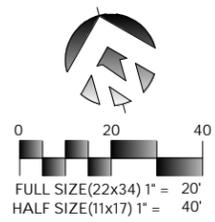
- FURNISHED BY CONTRACTOR  
INSTALLED BY CONTRACTOR
- 1 EA. - 3" GATE VALVE, RJ
  - 1 EA. - 3" CHECK VALVE, RJ
  - 1 EA. - 3" 45° BEND, RJ
  - 1 EA. - ARV ASSEMBLY
  - 1 EA. - 6" CHECK VALVE, RJ
  - 1 EA. - 6" SPOOL, RJ
  - 1 EA. - 6" x 6" x 3" WYE, RJ
  - 2 EA. - 6" SOLID SLEEVES
  - 3 EA. - VALVE BOX
  - 3 EA. - VALVE BOX EXTENSION

- FURNISHED BY CONTRACTOR  
INSTALLED BY CONTRACTOR
- 3 EA. - 3" 22.5° DIP BENDS, RJ
  - 1 EA. - 3" 11.25° DIP BENDS, RJ



BEGIN 3" PVC FORCE MAIN '2'  
STA. 10+00  
N: 383482.83  
E: 2530088.57

END 3" PVC FORCE MAIN '2'  
NEW LIFT STATION  
STA. 14+20  
N: 383379.24  
E: 2530482.37



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE. C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

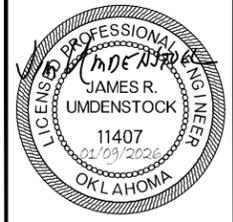
PHASE 2 (ALT 1)  
PLAN & PROFILE  
FORCE MAIN '2'  
STA 10+00 TO 14+20

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026

SHEET: 71 OF 107  
DRAWING: S15

1/9/2026 10:19:25 AM

PHASE 1 - LIFT STATION PUMP CAPACITY				
PUMP	CAPACITY (GPM)	TOTAL DYNAMIC HEAD	HP	V
1,2	100	121'	4.0	4.54 fps



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	

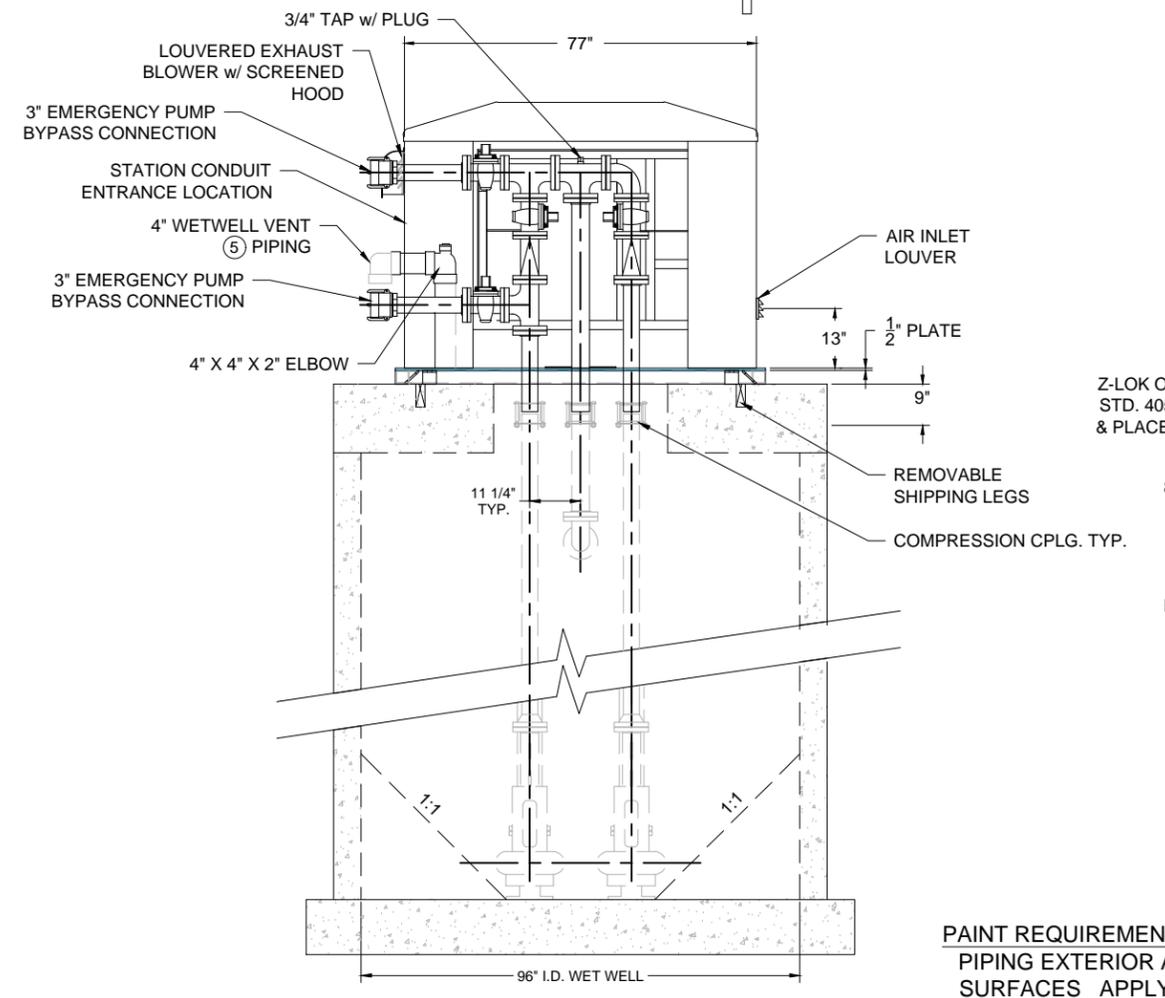
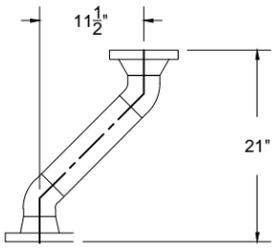
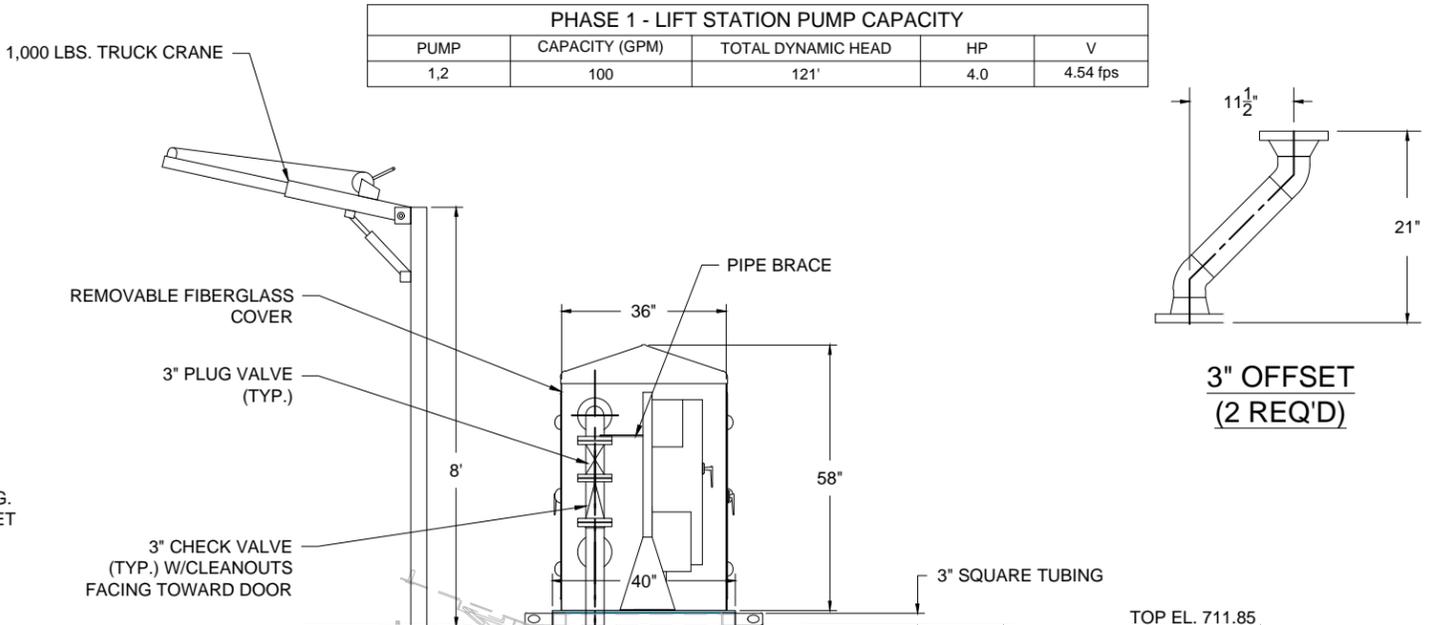
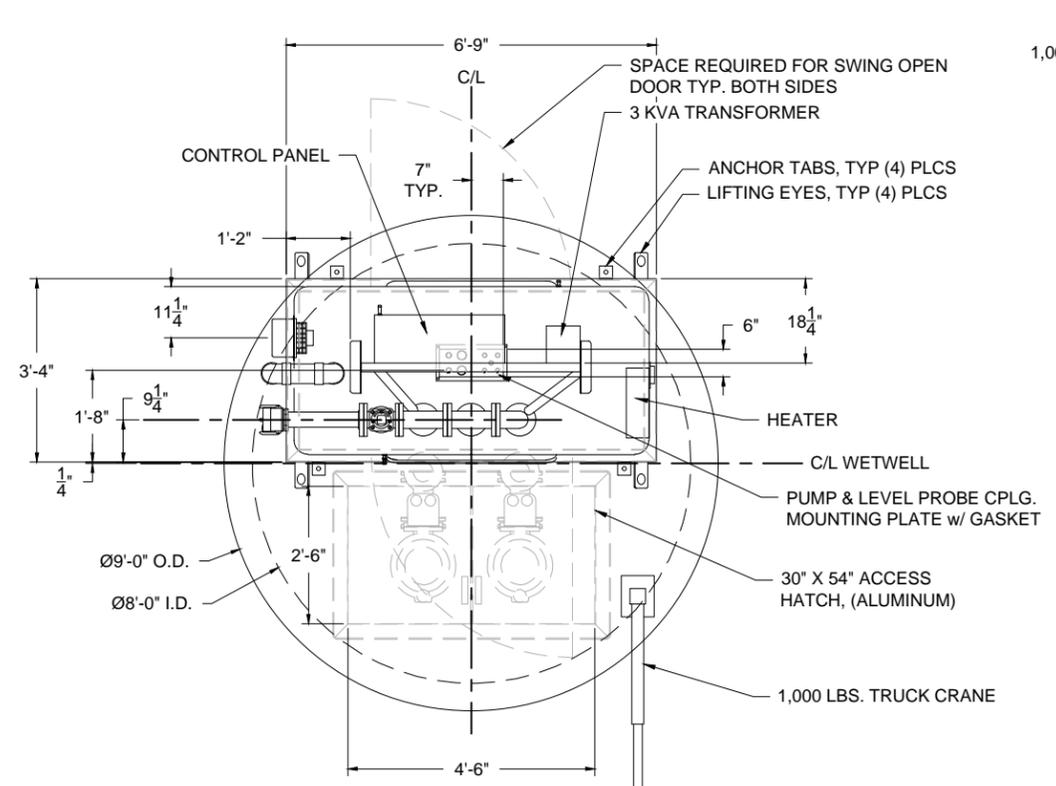


ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
LIFT STATION  
DETAILS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	72 OF 107
DRAWING:	S16



Z-LOK OR A-LOK GASKET PER STD. 405, PREPARE SURFACE & PLACE HYDRAULIC CEMENT BOTH SIDES.

8" PVC IN FLOW-LINE EL. 695.90

HIGH WATER ALARM EL. = 695.00

LAG PUMP ON EL. = 695.00

LEAD PUMP ON EL. = 694.00

OFF PUMP EL. = 693.00

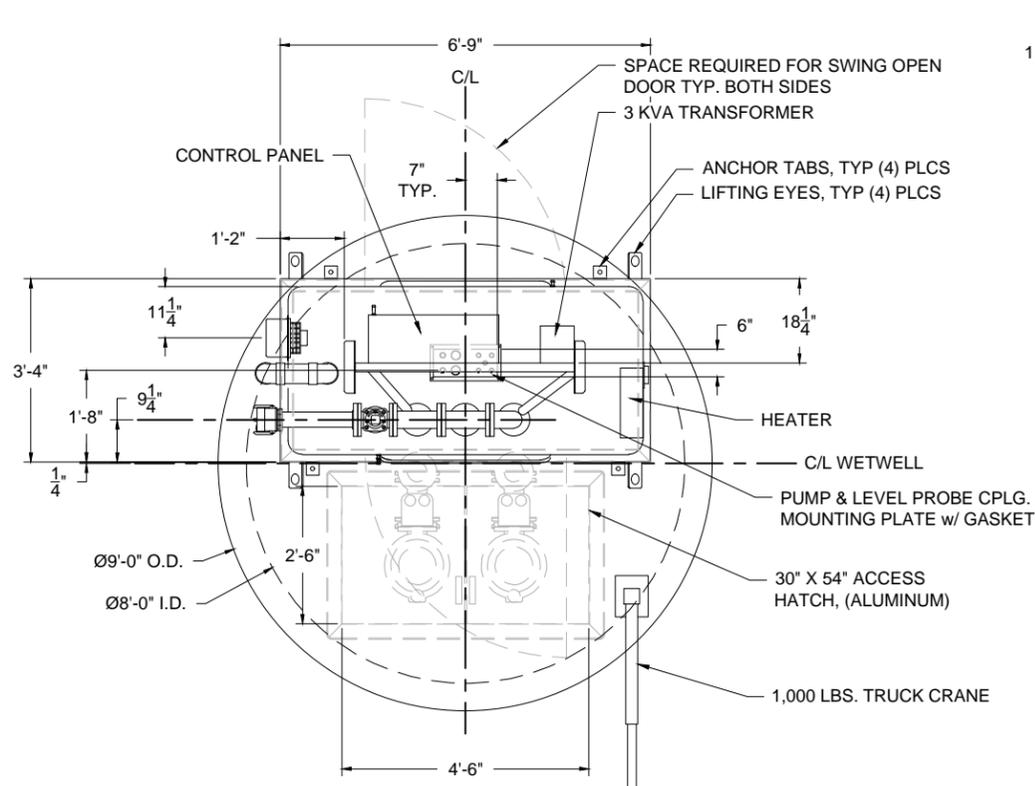
PUMPS

**PAINT REQUIREMENTS**  
PIPING EXTERIOR AND STEEL SURFACES APPLY 6 MILS EPOXY ENAMEL

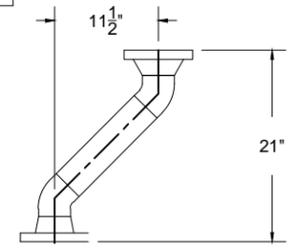
12" TYPE 'A' AGGREGATE BASE COMPACTED TO 95% STD PROCTOR DENSITY

SEE PAY ITEM NOTE FOR GEO-TEXTILE MATERIAL

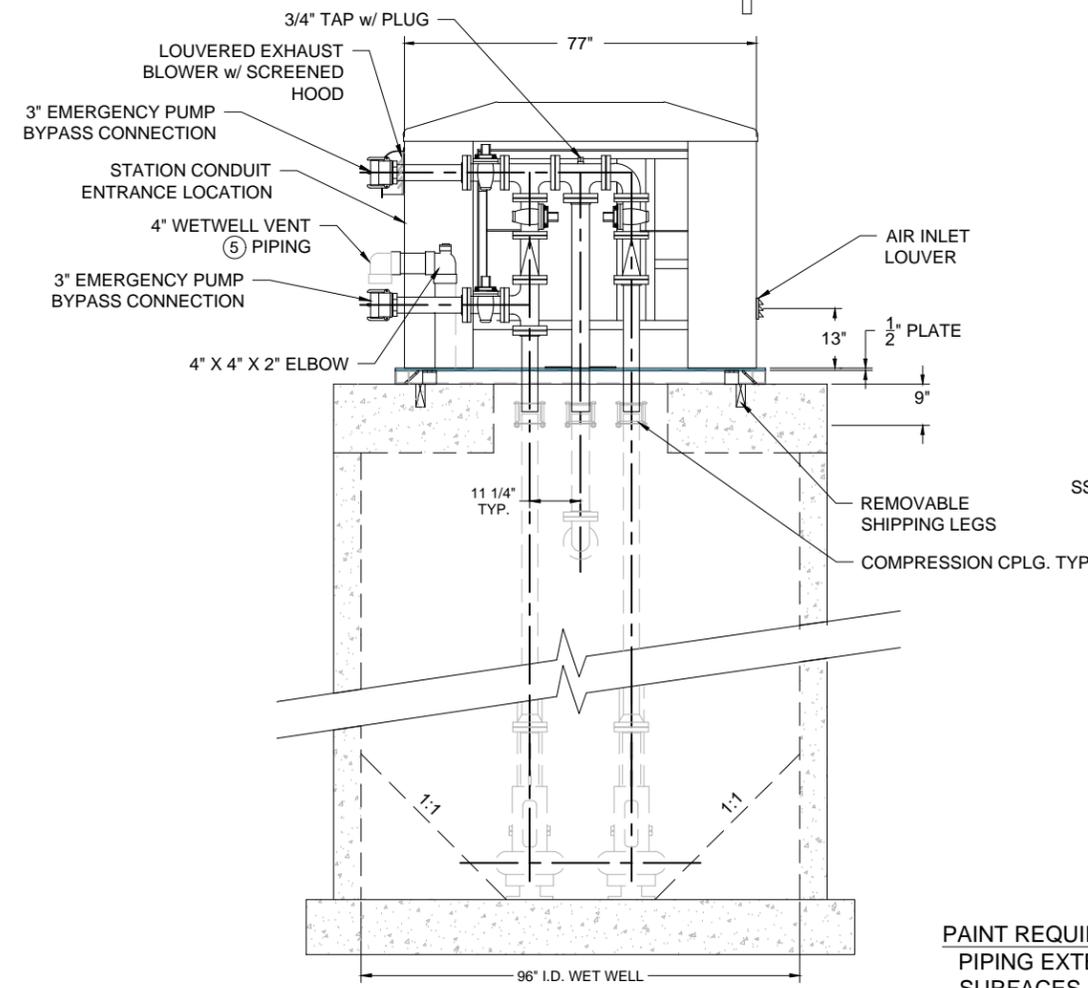
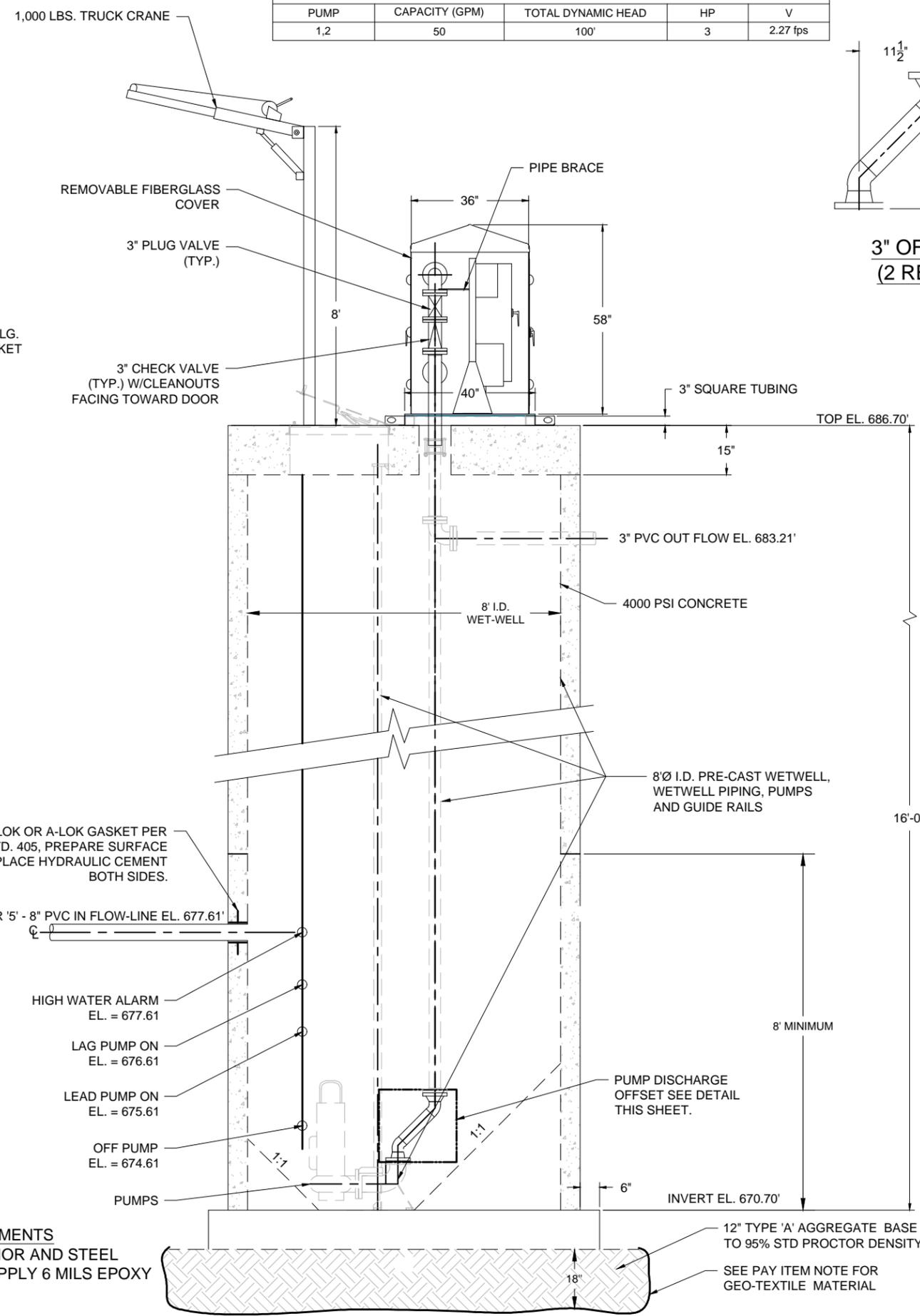
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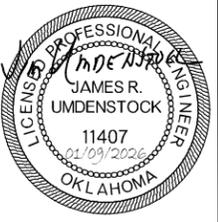
PHASE 2 - LIFT STATION PUMP CAPACITY				
PUMP	CAPACITY (GPM)	TOTAL DYNAMIC HEAD	HP	V
1,2	50	100'	3	2.27 fps



3" OFFSET  
(2 REQ'D)



**PAINT REQUIREMENTS**  
 PIPING EXTERIOR AND STEEL SURFACES APPLY 6 MILS EPOXY ENAMEL



Plans and Estimates Prepared by:

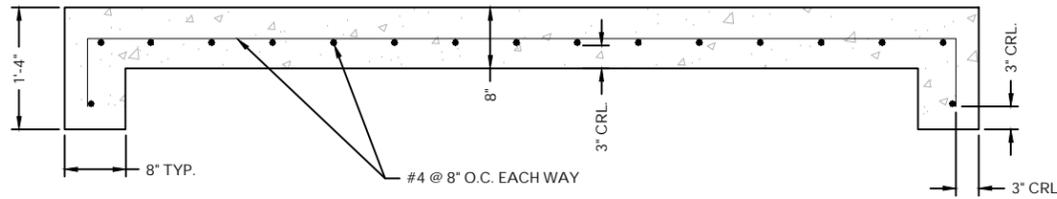
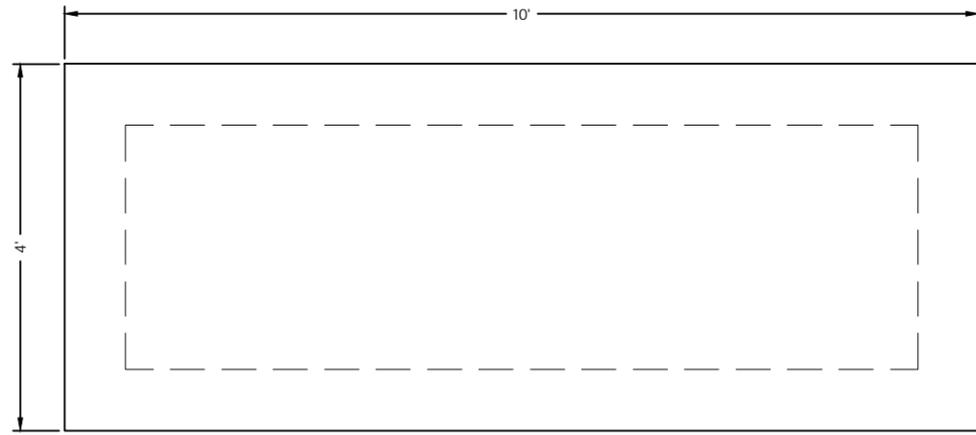
KE	KEITHLINE ENGINEERING GROUP	DATE	
	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

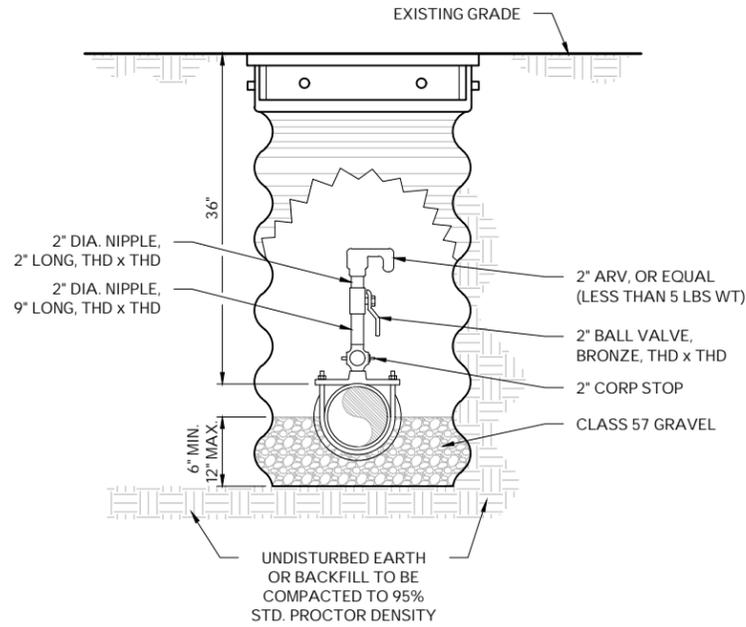
PHASE 2 (ALT. 1)  
 LIFT STATION  
 DETAIL

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
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DRAWING:	S17



**1** TYPICAL CONCRETE GENERATOR PAD  
SCALE: NTS

- TYPICAL CONCRETE GENERATOR PAD
1. ENSURE PAD EXTENDS 3" BEYOND TANK AROUND PERIMETER.
  2. ATTACH TANK TO PAD WITH 1" HILTI EXPANSION ANCHORS.
  3. INSTALL PAD TO CUSTOM FIT GENERATOR SYSTEM CHOSEN.
  4. ODOT CLASS 'A' CONCRETE.
  5. CHAMFER EXPOSED EDGES.



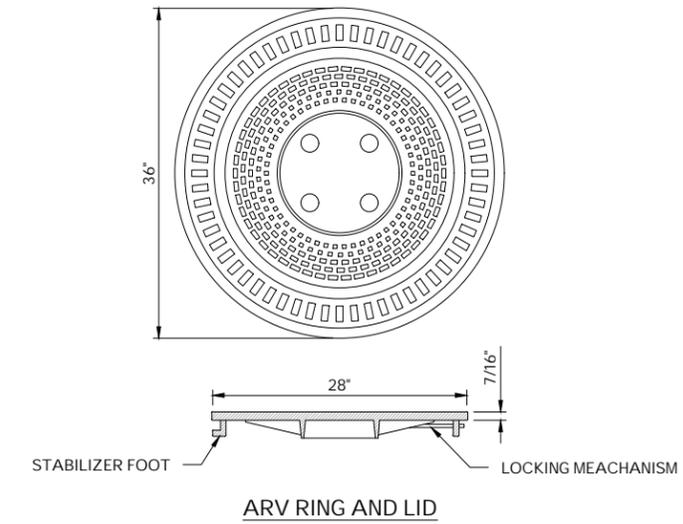
ELEVATION VIEW

- NOTE:
1. ARV'S SHOWN NOT TO EXCEED 5 LBS IN WEIGHT FITTING COMPATIBLE WITH THE TYPE OF PIPE FURNISHED.
  2. LOCATE IN GREEN AREAS ONLY.

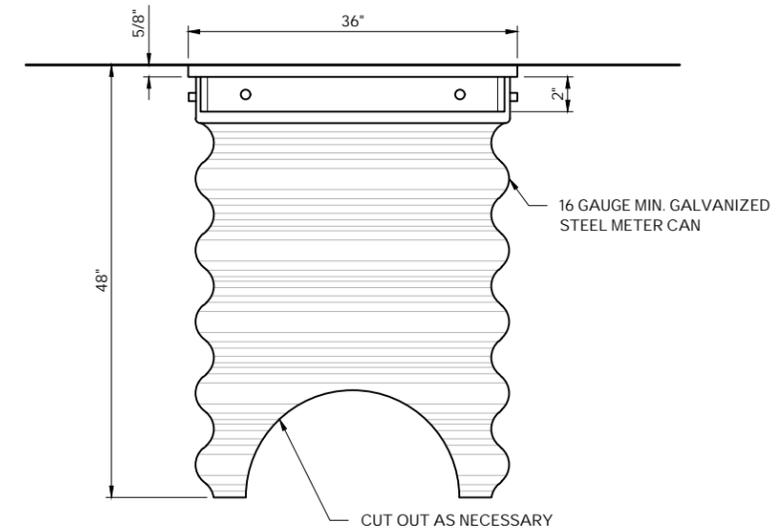
TO BE FURNISHED AND INSTALL BY CONTRACTOR

- 1 - 2" COMBO ARV OR EQUAL (5 LBS OR LESS)
- 1 - 36" x 48" METER CAN w/ RIM AND LID.
- 1 - 2" CORP STOP
- 1 - 2" x \_\_\_\_\_ SADDLE
- 1 - 2" NIPPLE, 9" LONG, THD x THD
- 1 - 2" BALL VALVE, BRONZE
- 1 - 2" NIPPLE, 2" LONG, THD x THD

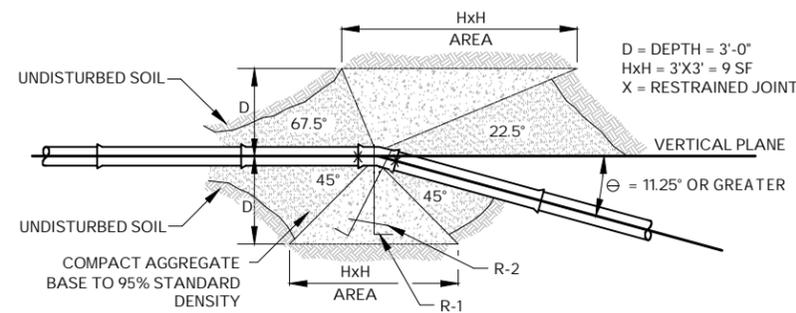
**2** TYPICAL ARV ASSEMBLY  
SCALE: NTS



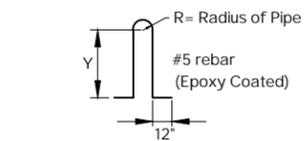
ARV RING AND LID



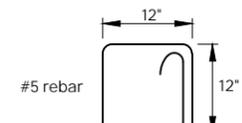
ARV CAN



**2** THRUST BLOCK FOR VERTICAL & HORIZONTAL BENDS  
SCALE: NTS



R-1 Bars  
2 Ea. per Gravity Thrust Block



R-2 Bars  
1 Ea. per Gravity Thrust Block



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
8556 E. 101ST ST., STE. C, TULSA, OKLAHOMA 74133 (918) 369-7911



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

SANITARY SEWER  
DETAILS

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026

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DRAWING: S18

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**ELECTRICAL LEGEND:**

- E- UNDERGROUND ELECTRIC SERVICE
- CONDUIT UP
- CONDUIT DOWN
- 120/240 VOLT SINGLE PHASE PANELBOARD
- T TRANSFORMER
- 277/480V, THREE PHASE PANELBOARD
- GF WP DUPLEX RECEPTACLE. GF REFERS TO GROUND FAULT INTERRUPTER. WP REFERS TO WEATHER PROOF WHILE IN USE.

**ABBREVIATIONS LIST:**

- A AMPERE(S)
- CKT CIRCUIT
- C CONDUIT
- GND GROUND
- OG&E OKLAHOMA GAS & ELECTRIC
- P POLE
- PH PHASE
- PVC POLYVINYL CHLORIDE
- V VOLT(S)
- XFMR TRANSFORMER

**SCHEMATIC LEGEND:**

- ⎓ MOLDED CASE CIRCUIT BREAKER
- ⎓ CONTACTOR NORMALLY OPEN
- ⎓ TRANSFORMER
- CTB CABLE TO BUS TRANSITION
- ⎓ GROUND
- CONNECTION POINT
- BUS
- ⎓ PANELBOARD WITH MAIN BREAKER
- ⎓ MAIN LUGS ONLY PANEL BOARD
- ① KEYNOTE REFERENCE

PNL: MPZ		PNL TYPE: SQUARE D MINI POWER ZONE,		CAB: SURFACE, NEMA 3R									
SERVICE: 480V, 1PH, 2W IN - 120/240V, 1PH,		MPZB7S40F		MAIN: 20/2 PRI/40/2 SEC.									
3 WIRE OUT		BUS: 40A		FEED: -									
ISC RATING: 18K A.I.C.		NO SERIES RATINGS ACCEPTED											
SERVING	WIRE SIZE	AMPS	POLES	CIRC. NO.	PHASE LOADING AMPS				CIRC. NO.	POLES	AMPS	WIRE SIZE	SERVING
					A	B	C	D					
REC.	12	20	1	1	1.5	6.3			2	2	20	12	GEN WATER JACKET HEATER
SCADA	12	20	1	3			6.3		4				
SPARE		20	1	5		1.5			6	1	20	12	GEN BATT CHARGER
SPARE		20	1	7				3	8	1	20	12	GEN. HEATERS
SPARE		20	1	9					10	1	20		SPARE

PNL: HS		PNL TYPE: SQUARE D NF WITH		CAB: SURFACE, NEMA 3R									
SERVICE: 277/480V, 3PH, 4W		120KA SPD		MAIN: 100A BREAKER									
ISC RATING: 18K A.I.C.		BUS: 100A COPPER WITH GROUND BUS		FEED: BOTTOM									
NO SERIES RATINGS ACCEPTED													
SERVING	WIRE SIZE	AMPS	POLES	CIRC. NO.	PHASE LOADING AMPS				CIRC. NO.	POLES	AMPS	WIRE SIZE	SERVING
					A	B	C	D					
SPARE		100	3	1					2	2	20	4	MPZ
				3					4				
				5					6	3	60	3	PUMP CONTROL PANEL
SPARE		30	3	7					8				
				9					10				
				11					12	3	50		SPARE
SPARE		40	3	13					14				
				15					16				
				17					18	1			SPACE

**FEEDER SCHEDULE:**

- 1 BUILD (4) - #2 IN 1-1/2" RMC
- 2 BUILD (4) - #2, (1) - #6 G IN 1-1/2" RMC
- 3 BUILD (3) - #6, (1) - #8 G IN 1" RMC
- 4 BUILD (2) - #10, (1) - #8 G IN 1" RMC
- 5 BUILD EMPTY 4" SCH 40 PVC WITH TOP OF CONDUIT AT LEAST 30" BELOW FINAL GRADE FOR SERVICE CABLES. CABLE WILL BE FURNISHED AND INSTALLED BY OG&E.
- 6 INSTALL FLEXIBLE CABLE SUPPLIED WITH SUBMERSIBLE PUMP.

**SCADA/CONTROLS DIAGRAM NOTES:**

- 1 FURNISH AND INSTALL DIVERSIFIES ELECTRONICS PHASE BAND RELAY, MODEL PBD-480-ALE. SET FOR 432-LOW TO 528-HIGH VOLTS, 30 SECONDS DELAY. FURNISH AND INSTALL FINGER-SAFE DEADFRONT FUSE BLOCKS WITH 1A FUSES TO FEED RELAYS.
- 2 BUILD 1-1/2" RMC FOR LOW VOLTAGE CONTROLS. BUILD CONDUCTORS PER GENERATOR MANUFACTURER REQUIREMENTS. AT A MINIMUM, BUILD (6) - #14 FOR GENERATOR START, GENERATOR COMMON ALARM, AND TWO SPARES.
- 3 BUILD 1-1/2" RMC FOR SCADA LOW VOLTAGE CONTROLS.
- 4 BUILD 1-1/2" RMC FOR LIFT STATION SCADA CONNECTION. AT A MINIMUM, BUILD (16) - #14 FOR SCADA POINTS AND TWO SPARE CONDUCTORS.
- 5 BUILD 1-1/2" RMC AND FURNISH AND INSTALL CONDUCTORS AS RECOMMENDED BY SCADA SYSTEM MANUFACTURER.

**GENERAL ELECTRICAL NOTES:**

1. CARRY CODE SIZE GROUND WIRE IN ALL FEEDER AND BRANCH CONDUITS AND ATTACH TO ALL DEVICES, FIXTURES AND EQUIPMENT.
2. RACEWAYS CONTAINING #10 OR SMALLER PHASE CONDUCTORS: DO NOT INSTALL MORE THAN THREE PHASE CONDUCTORS AND THREE NEUTRALS MAXIMUM IN A RACEWAY UNLESS SO INDICATED ON PLAN.
3. NO SHARED NEUTRALS ON BRANCH CIRCUITS.
4. FURNISH AND INSTALL MARKED BRADY TYPE PULLSTRINGS IN ALL EMPTY CONDUITS.
5. ALL CONDUIT SHALL BE RMC UNLESS SPECIFICALLY NOTED OTHERWISE.
6. NO CONDUIT SHALL BE LESS THAN 3/4" TRADE SIZE.
7. ALL UNDERGROUND BENDS AND ELBOWS SHALL BE LONG SWEEP.
8. ALL UNDERGROUND CONDUITS SHALL HAVE 30" COVER TO GRADE OR TOP OF PAVING.

**KEYNOTES:**

- 1 FURNISH AND INSTALL 100A, 3-POLE, 277/480V, FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE WITH FACTORY INSULATED NEUTRAL BUS AND BUSSMAN LPS-100A FUSES. BOND NEUTRAL TO GROUND IN THIS ENCLOSURE.
- 2 FURNISH AND INSTALL (3) - 3/4" x 10' GROUND RODS 10' APART WITH ACCESSIBLE PLASTIC COVERS. BUILD #2 SOLID CU AS INDICATED. USE EXOTHERMIC WELDS AT GROUND RODS.
- 3 DO NOT BOND GENERATOR TO GROUND. GENERATOR IS NOT A SEPARATELY DERIVED SYSTEM. NEUTRAL-GROUND BOND SHALL OCCUR AT MAIN ONLY.
- 4 INSTALL AND CONNECT PUMP CORDS PER MANUFACTURER RECOMMENDATIONS.
- 5 ENTER ENCLOSURE AT LOCATION RECOMMENDED BY EQUIPMENT MANUFACTURER. USE CAST CONDULET ELL.
- 6 FURNISH AND INSTALL 200A NON-FUSED SWITCH IN NEMA 3R ENCLOSURE. FURNISH AND INSTALL 8" D x 24" H x 24" W GASKETED, GALVANIZED AND PAINTED NEMA 3R PULL BOX BELOW DISCONNECT SWITCH TO ACCEPT SPECIFIED 4" UNDERGROUND CONDUIT.
- 7 BUILD RMC NIPPLE SIZED LARGEST THAT ENCLOSURES ALLOW.
- 8 BOND MPZ SECONDARY NEUTRAL TO SWITCHRACK STRUCTURE WITH #6 COPPER. USE 2-HOLE IRREVERSIBLE COMPRESSION LUG ON SWITCHRACK.

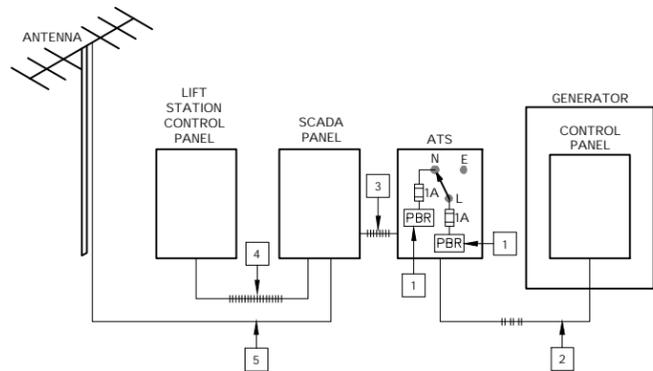
**SCADA NOTES:**

CONTRACTOR TO PROVIDE SCADA SYSTEM PER SPECIFICATION. THIS INCLUDES ANTENNA, CONTROL PANEL, MOTOR STARTERS, CONTROLS, WIRE AND CONDUIT. SCADA SYSTEM IS TO BE EXACTLY AS SPECIFIED OR THAT OF AN APPROVED EQUAL. PROVIDE FOR REVIEW, SHOP DRAWINGS OF PROPOSED SYSTEM WITH DETAILED INFORMATION ON EQUIPMENT AND CONTROLS. MAKE ANY ADJUSTMENTS NEEDED FOR VARIATIONS IN MOTOR SIZES BETWEEN THE 3 PROJECT PHASES. CONTROL SYSTEM TO BE BASED ON eWON SCADA AND WILL UTILIZE A CELLULAR ANTENNA. MOTOR STARTERS TO BE ACROSS-THE-LINE. PUMPS TO ALTERNATE LEAD AND LAG. THE OWNER USES CONTROL SYSTEMS SOLUTIONS TO INSTALL AND MAINTAIN THEIR SCADA SYSTEM. VEGA IS THE PREFERRED LEVEL CONTROL SYSTEM VENDOR FOR THE OWNER.

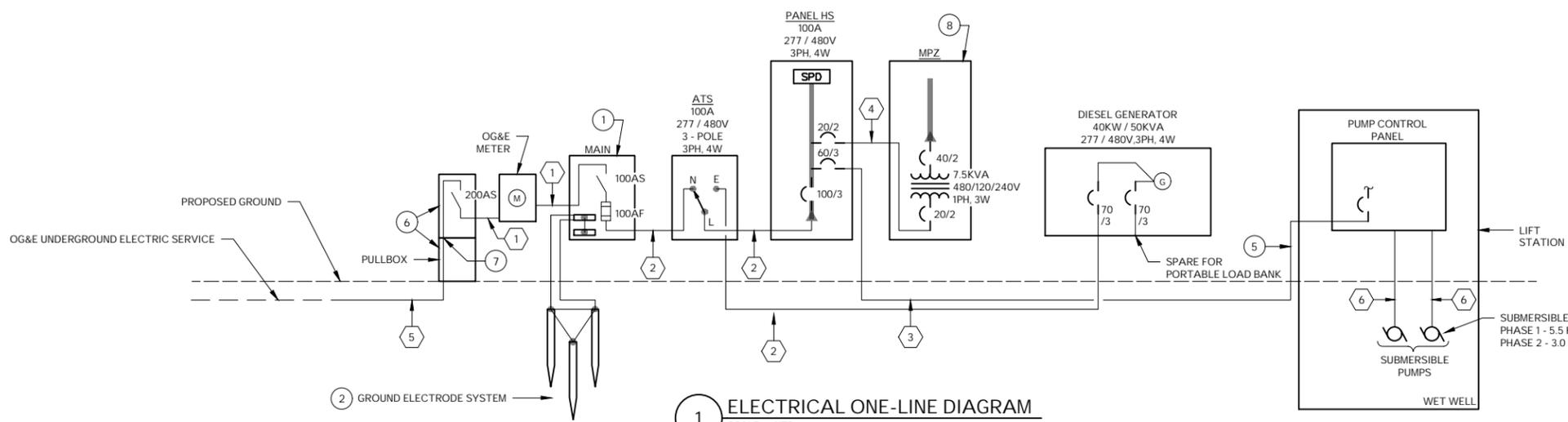
**THE FOLLOWING SCADA POINTS ARE TO BE MONITORED:**

- GENERATOR
1. COMMON GENERATOR ALARM
- UTILITY POWER
2. UTILITY POWER FAILURE
- AUTOMATIC TRANSFER SWITCH (ATS)
3. UTILITY AND GENERATOR POWER FAILURE
- LIFT STATION
4. HIGH WET WELL LEVEL
  5. LOW WET WELL LEVEL
  6. PUMP #1 SEAL FAILURE
  7. PUMP #2 SEAL FAILURE
  8. PUMP #1 HIGH TEMPERATURE
  9. PUMP #2 HIGH TEMPERATURE
  10. PUMP #1 RUN TIME (ANALOG HOURS)
  11. PUMP #2 RUN TIME (ANALOG HOURS)

DRAWINGS INDICATE ESTIMATED CONDUCTOR, CONDUIT, AND CONNECTION REQUIREMENTS FOR BIDDING PURPOSES. CONTRACTOR SHALL FURNISH AND INSTALL CONDUCTORS AND CONDUIT AS NECESSARY FOR SCADA SYSTEM. COORDINATE WITH EQUIPMENT SHOP DRAWING.



2 SCADA / CONTROLS DIAGRAM  
SCALE: NTS



1 ELECTRICAL ONE-LINE DIAGRAM  
SCALE: NTS



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**KEITHLINE ENGINEERING GROUP**  
8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971

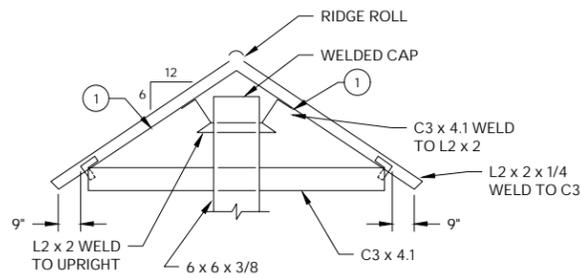


**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

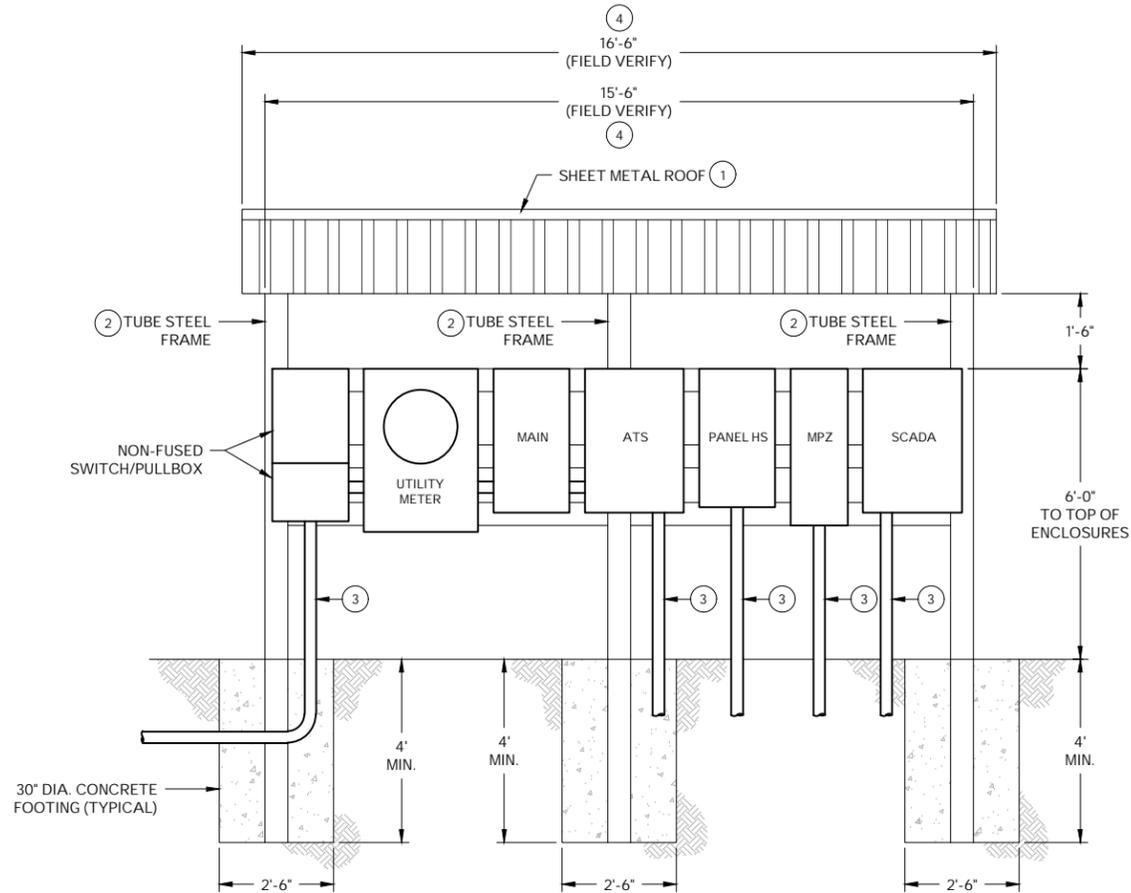
**ELECTRICAL  
DIAGRAM**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
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DRAWING:	E1

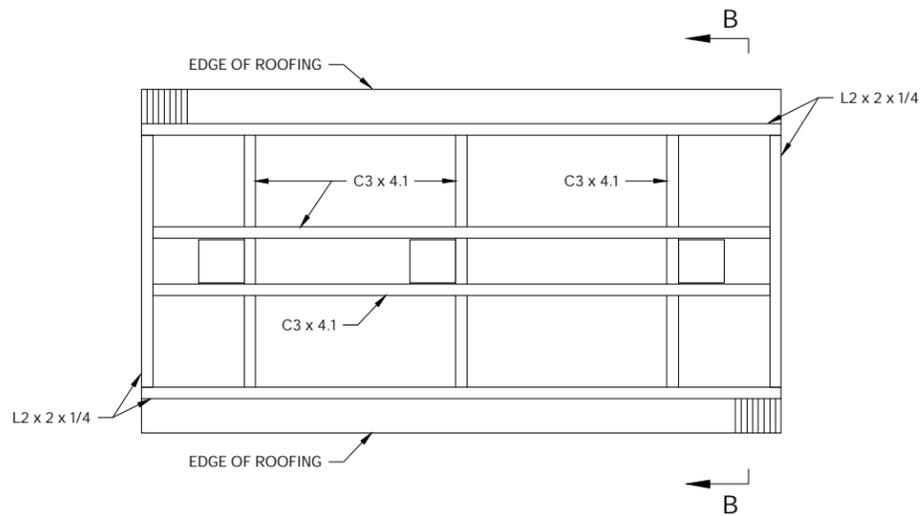
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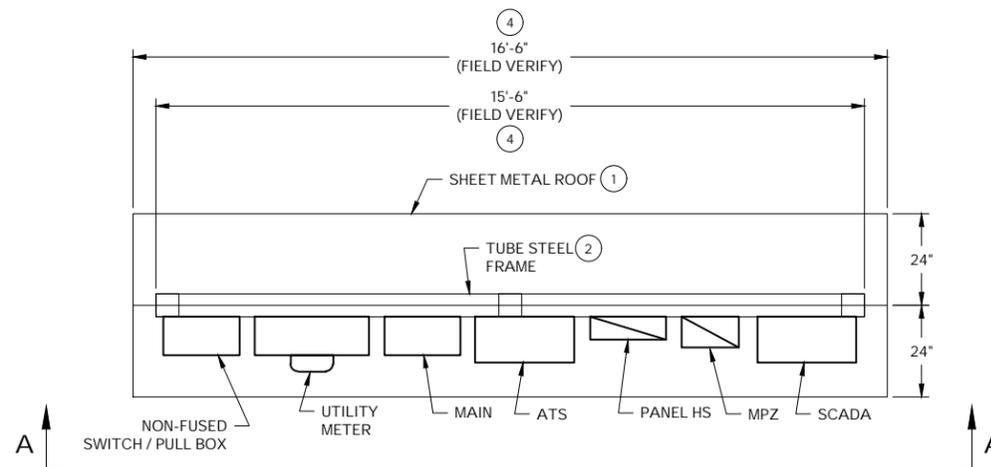
2 SECTION B-B  
SCALE: NTS



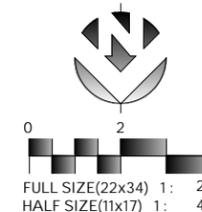
2 SECTION A-A  
SCALE: 1/2



3 PLAN VIEW OF CANOPY  
SCALE: NTS



1 SWITCHRACK PLAN  
SCALE: 1/2



KEY NOTES:

- 1 BUILD DARK GREEN 22 GAUGE CORRUGATED SHEET METAL ROOF WITH STEEL SUPPORT STRUCTURE.
- 2 PAINT ALL STEEL SUPPORT STRUCTURE WITH DARK GREEN PAINT TO MATCH ROOF. PAINT SHALL BE RUST INHIBITIVE WITH PRIMER COAT. TUBE STEEL UPRIGHTS AND CROSS MEMBERS SHALL BE 6 x 6 x 3/8" SQUARE STRUCTURAL TUBING.
- 3 REFER TO ONE-LINE AND SITE PLAN FOR CONDUIT INFORMATION. ALL CONDUIT SHALL BE RMC EXCEPT OG&E SERVICE CONDUIT.
- 4 VERIFY DIMENSIONS OF ALL EQUIPMENT PRIOR TO SWITCHRACK FABRICATION AND ADJUST DIMENSIONS TO FIT EQUIPMENT SUBMITTALS.



Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

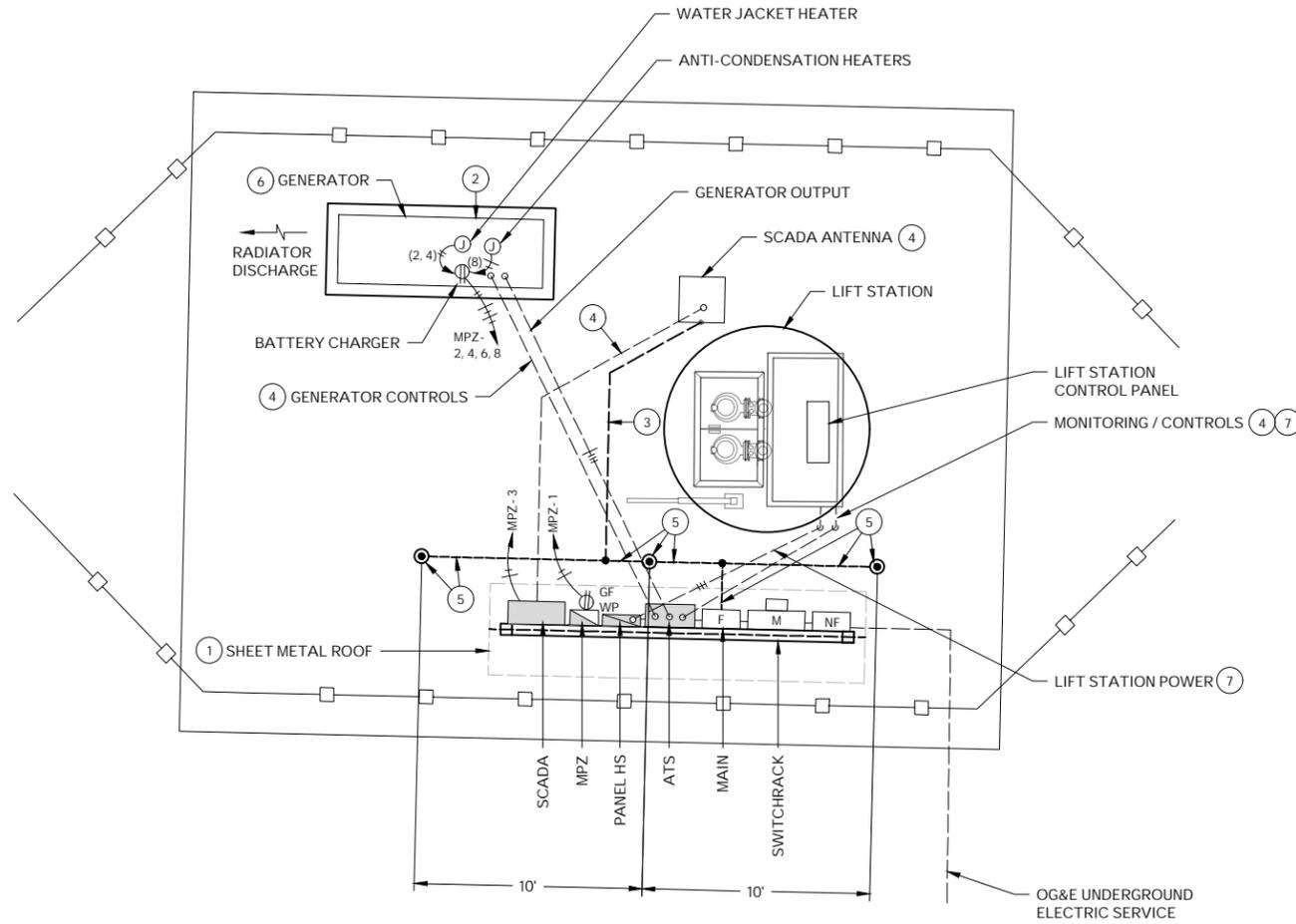
SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

SWITCHRACK  
 DETAILS

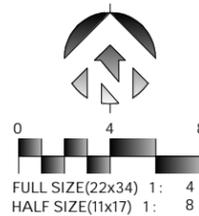
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
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 DRAWING: E2

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1 PHASE 1  
LIFT STATION - ELECTRICAL PLAN  
SCALE: 1:4



SHEET KEY NOTES:

- 1 BUILD METAL SWITCHRACK / CANOPY.
- 2 FIELD COORDINATE CONCRETE PAD DIMENSIONS WITH GENERATOR SHOP DRAWINGS.
- 3 BUILD #2 SOLID BARE COPPER FROM GROUNDING ELECTRODE SYSTEM TO ANTENNA. USE EXOTHERMIC WELD UNDERGROUND AND TWO-HOLE IRREVERSIBLE COMPRESSION LUG AT ANTENNA.
- 4 REFER TO SCADA / CONTROLS DIAGRAM FOR CONDUIT / CONDUCTOR REQUIREMENTS.
- 5 GROUNDING ELECTRODE SYSTEM. REFER TO ELECTRICAL ONE-LINE DIAGRAM.
- 6 COORDINATE CONDUIT STUB-UP LOCATIONS WITH EQUIPMENT SHOP DRAWING. USE LIQUID-TITE FLEX ABOVE GRADE FROM CONDUIT STUB-UPS TO GENERATOR ENCLOSURES. NO OPEN CABLING INSIDE GENERATOR ENCLOSURE WILL BE ACCEPTED.
- 7 COORDINATE CONDUIT CONNECTIONS WITH EQUIPMENT SHOP DRAWINGS.



Plans and Estimates Prepared by:  
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ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1  
 LIFT STATION  
 ELECTRICAL  
 PLAN

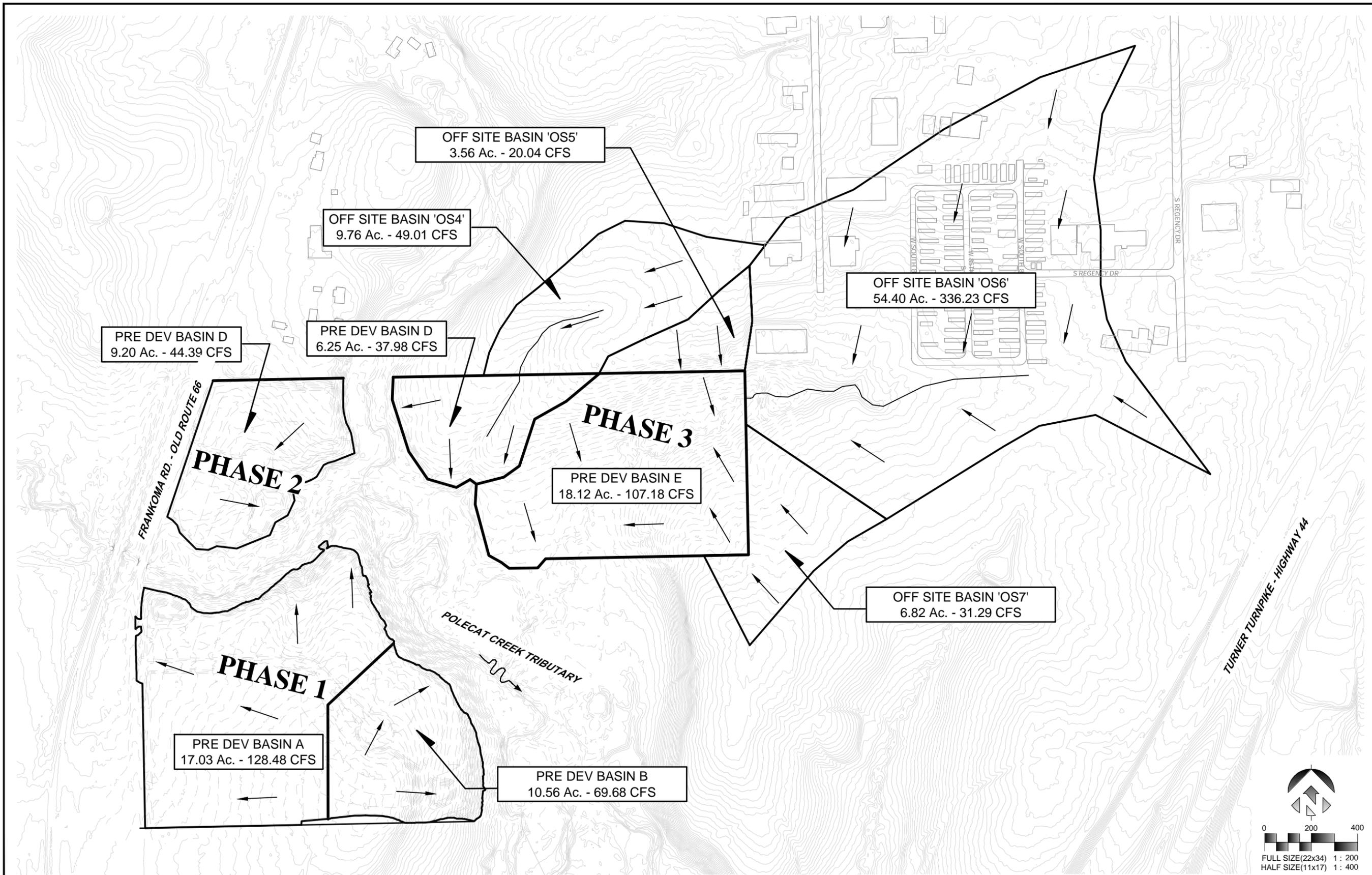
PROJECT #	24.11
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ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026

SHEET: 77 OF 107

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1 PHASE 1, 2 & 3 - PRE DEVELOPMENT DRAINAGE OVERVIEW



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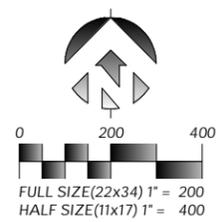
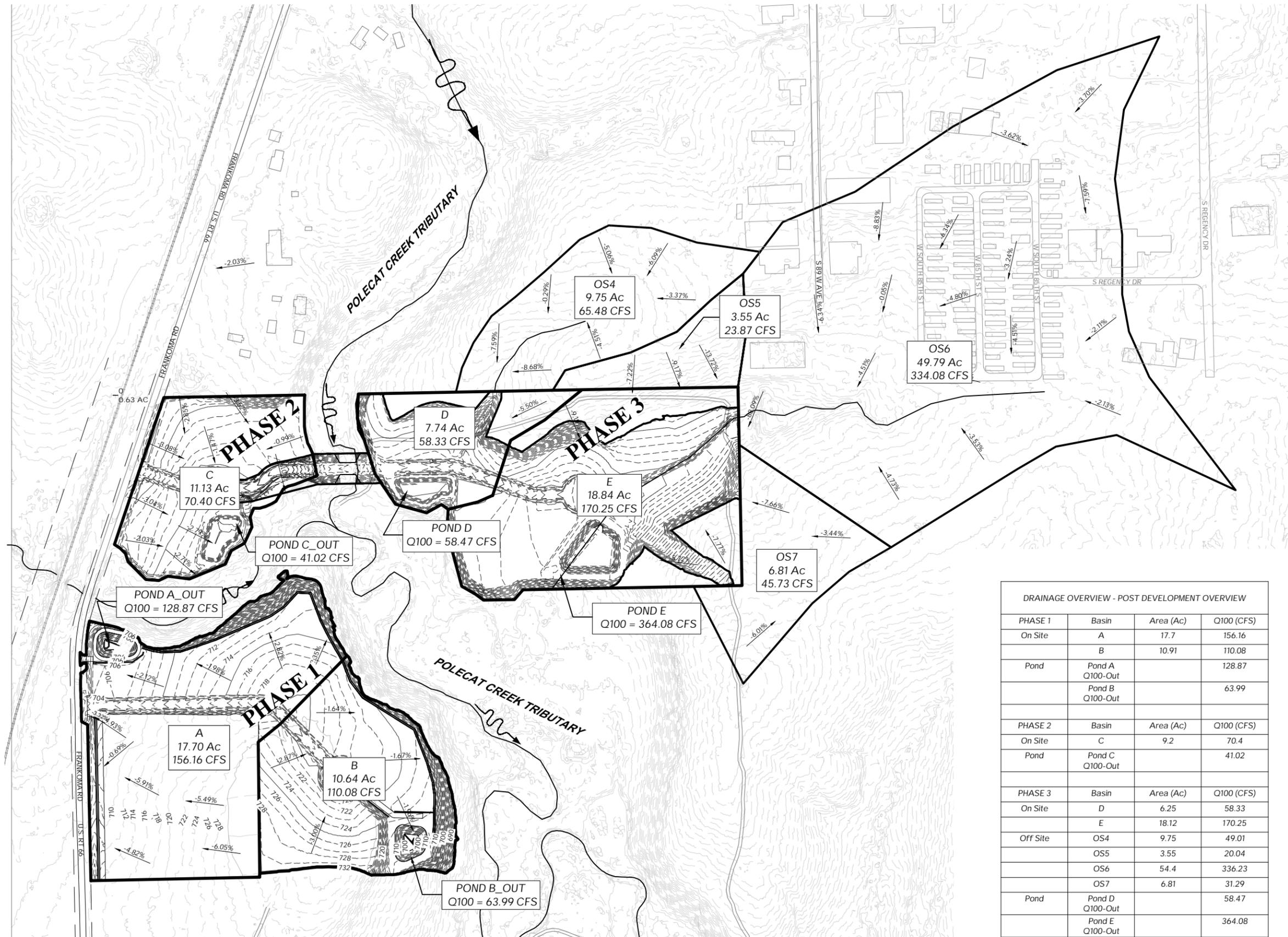
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1, 2 & 3  
PREDEVELOPMENT  
DRAINAGE  
AREA

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	DECEMBER 12, 2025
SHEET:	79 OF 107
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**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1, 2 & 3  
POST DEVELOPMENT  
DRAINAGE  
OVERVIEW**

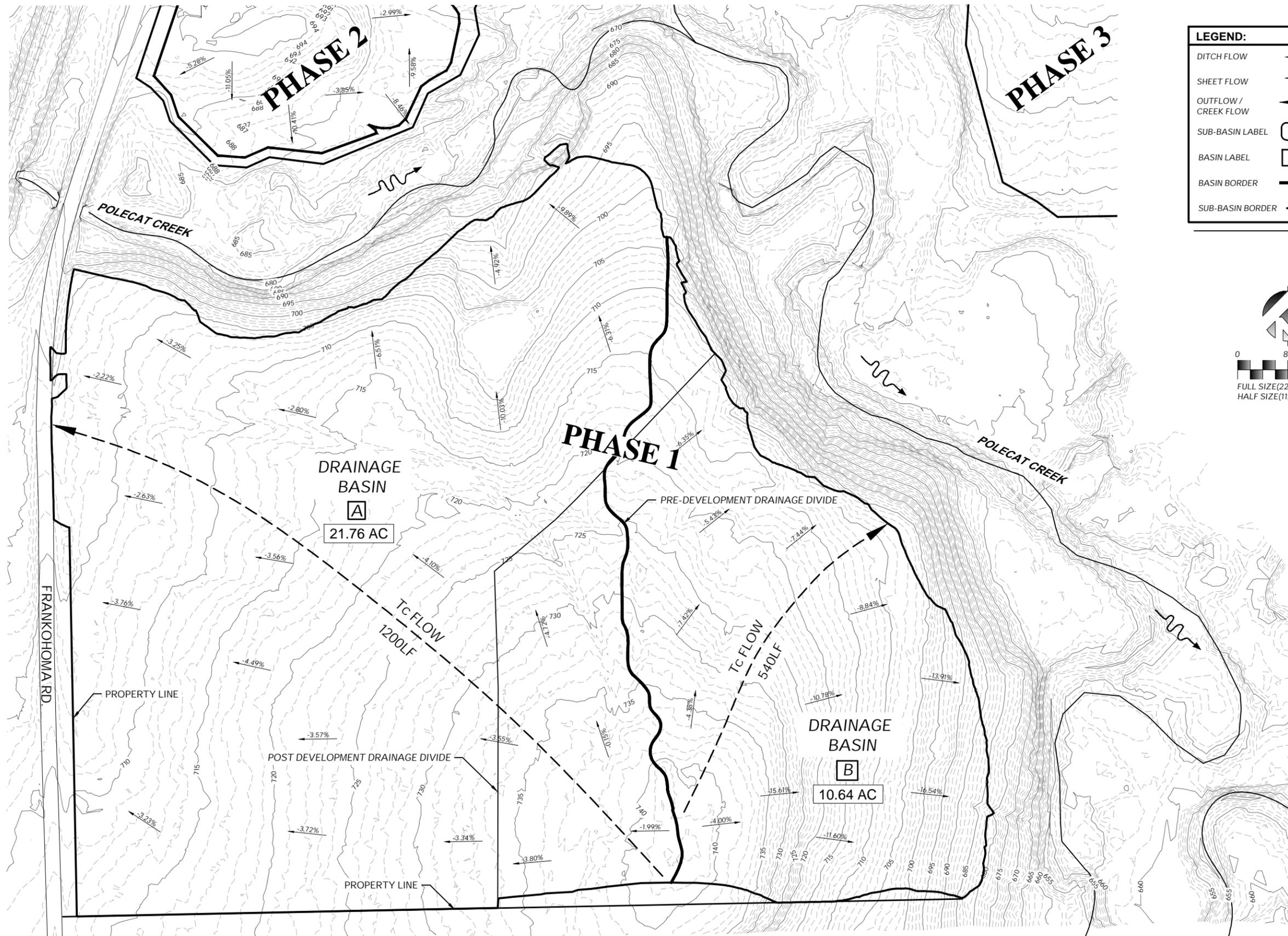
DRAINAGE OVERVIEW - POST DEVELOPMENT OVERVIEW			
PHASE	Basin	Area (Ac)	Q100 (CFS)
PHASE 1	On Site	A	17.7
		B	10.91
	Pond	Pond A Q100-Out	128.87
		Pond B Q100-Out	63.99
PHASE 2	On Site	C	9.2
	Pond	Pond C Q100-Out	41.02
PHASE 3	On Site	D	6.25
		E	18.12
	Off Site	OS4	9.75
		OS5	3.55
		OS6	54.4
		OS7	6.81
	Pond	Pond D Q100-Out	58.47
	Pond E Q100-Out	364.08	

1 PHASE 1, 2 & 3 - POST DEVELOPMENT DRAINAGE OVERVIEW

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
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DRAWING:	H02



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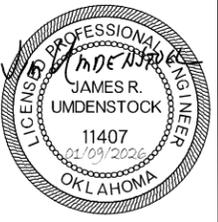


**LEGEND:**

- DITCH FLOW:
- SHEET FLOW:
- OUTFLOW / CREEK FLOW:
- SUB-BASIN LABEL:
- BASIN LABEL:
- BASIN BORDER:
- SUB-BASIN BORDER:

0 80 160

FULL SIZE(22x34) 1" = 80  
HALF SIZE(11x17) 1" = 160



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP	DATE	
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		REVISION	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
PRE-DEVELOPMENT  
DRAINAGE  
OVERVIEW

PROJECT #	24.11
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ATLAS PAGE NO.	--
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DRAWING:	H04

1 PHASE 1 - PRE DEVELOPMENT DRAINAGE BASINS OVERVIEW





STRUCTURE AND BASIN INFO

STRUCTURE NAME	DESCRIPTION	INLET SOURCE	RIM / INLET ELEVATION	OUTLET INVERT ELEVATION	Q100 THRU INLET	SLOPE	ROUGHNESS	DEPTH	LENGTH	RECEIVING DITCH / PIPE NAME	RECEIVING DITCH / PIPE DESCRIPTION	ADDITIONAL INFLOW SOURCES	ACCUMULATIVE Q100 THRU PIPE / DITCH	FLOW VELOCITY THROUGH PIPE / DITCH	SLOPE	LENGTH	PIPE SIZE / DITCH BOTTOM WIDTH	DITCH SIDES	OVERALL DITCH DEPTH	ROUGHNESS MANNINGS NO.	MAX / TOTAL DEPTH FLOW RATIO	FLOWS TO / PAST
			Ft.	Ft.	CFS	(%)	Mannings No.	Ft.	Ft.				CFS	FPS	(%)	LF	in.		Ft.			
A1.1	FLUME	A1.1	713.95	712.25	1.18	16.13	0.013	-	10.50	A1.1-D	DITCH	A1.1-D	30.58	5.10	2.18	440.0	24	3:1	2.167	0.033	0.52	A1.2
A1.2	FLUME	A1.2	705.00	702.67	2.01	22.22	0.013	-	10.50	A1.2-D	DITCH	-	32.44	7.21	5.5	21	24	3:1	2.167	0.033	0.43	A1.3
A1.3	DROP INLET	A1.3, A1.2-D	701.57	696.65	98.12	-	0.013	4.92	-	A1.3	PIPE	-	98.12	9.33	0.52	48.5	48	-	-	0.013	0.78	A1.6
A1.4	FLUME	A1.4	713.95	712.25	1.25	16.13	0.013	-	10.5	A1.4-D	DITCH	A1.4-D	1.82	2.40	2.07	440	24	3:1	2.167	0.033	0.13	A1.5
A1.5	FLUME	A1.5	701.57	703.16	2.01	20.44	0.013	-	10.5	A1.5-D	DITCH	A1.5-D	4.71	3.04	2.11	31.8	24	3:1	2.167	0.033	0.21	A1.6
A1.6	DROP INLET	A1.5-D	702.57	696.38	4.71	-	0.013	6.19	-	A1.6	PIPE	A1.3	102.75	9.51	0.53	147.6	48	-	-	0.013	0.81	A1.7
A1.7	DROP INLET	A1.7	704.00	695.13	17.24	-	0.013	8.87	-	A1.7	PIPE	A1.6	119.52	11.37	0.76	49.70	48	-	-	0.013	0.78	A1.8
A1.8	MANHOLE	-	706.00	694.73	-	-	0.013	11.27	-	A1.8	PIPE	A1.7	119.51	11.65	0.81	28.50	48	-	-	0.013	0.76	A1.9 / POND_A
A2.1	DROP INLET	A2.1	705.50	694.70	25.32	-	0.013	10.80	-	A2.1	PIPE	-	25.29	6.72	0.49	41	36	-	-	0.013	0.53	A2.2 / POND_A
A3.1	WEIR	POND_A	705.00	694.00	119.3	-	0.013	11.00	-	A3.1	PIPE	-	119.3	9.10	0.42	54.86	54	-	-	0.013	0.77	A3.2
A3.2	MANHOLE	-	702.44	693.37	-	-	0.013	9.07	-	A3.2	PIPE	A3.1	119.25	9.37	0.42	54.86	54	-	-	0.013	0.77	A3.3 / A_OUT



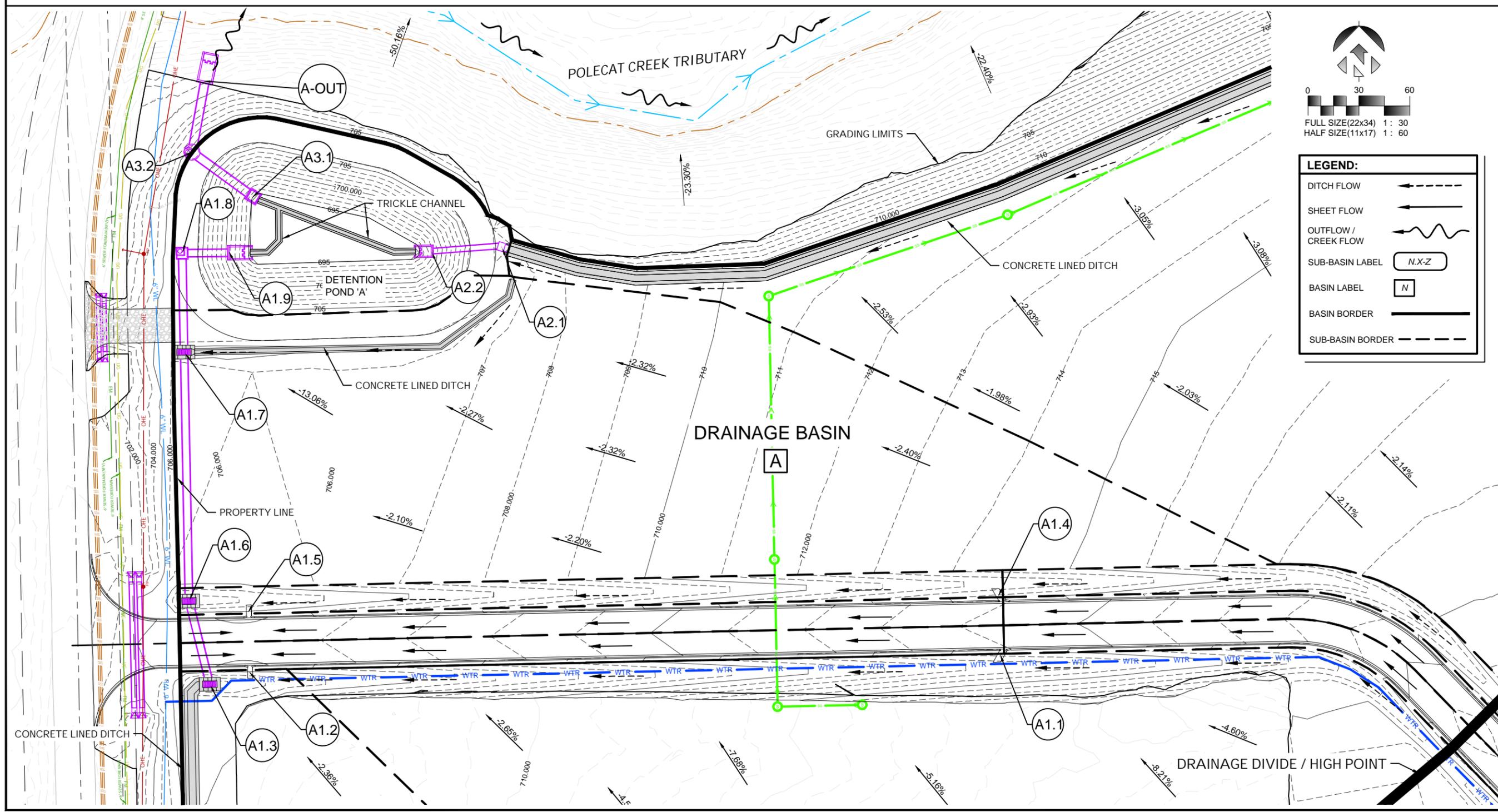
Plans and Estimates Prepared by:  
**KEITHLINE ENGINEERING GROUP**  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

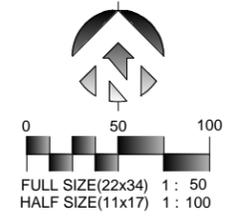
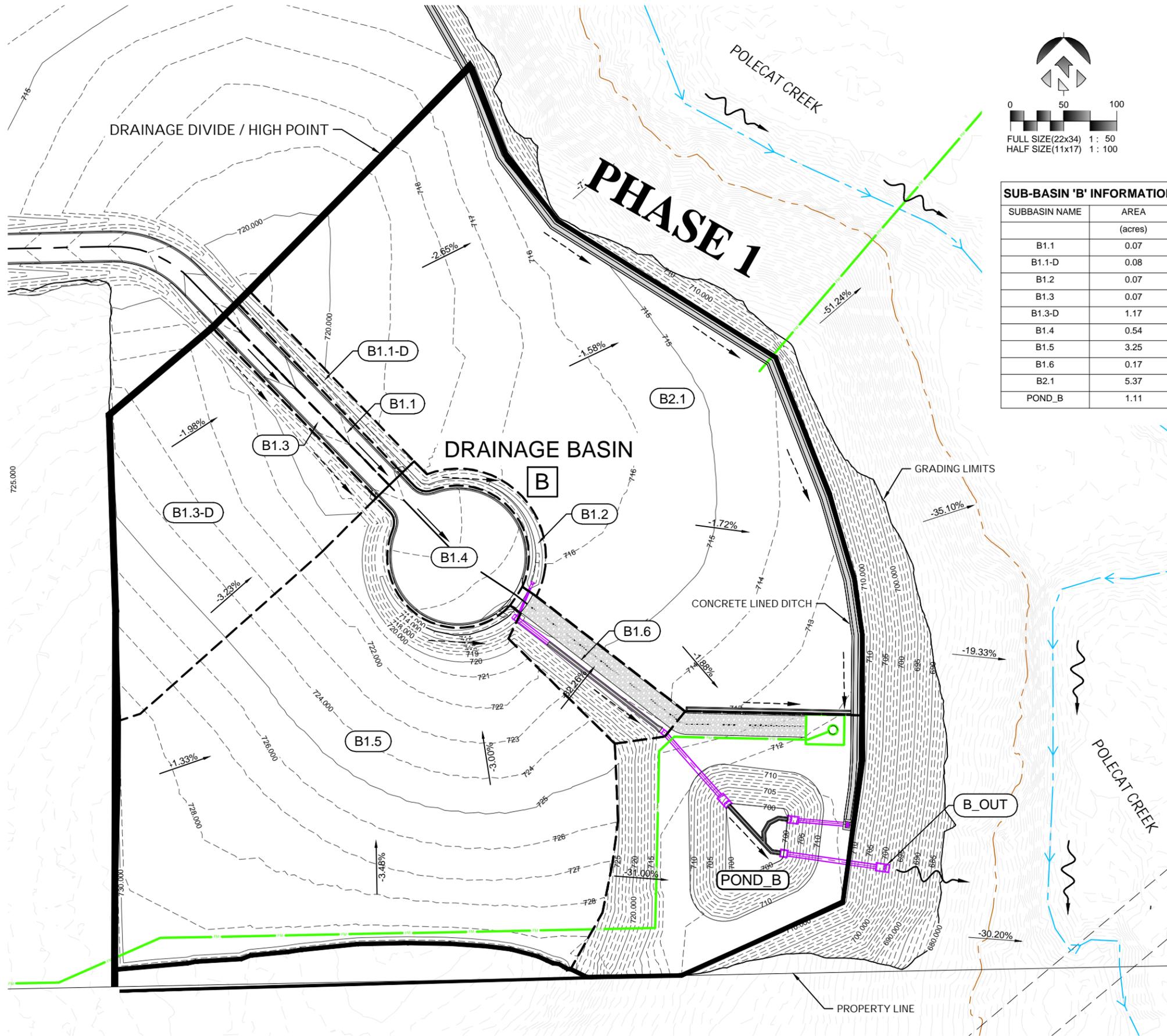
**PHASE 1 (BASE BID)  
 POST DEVELOPMENT  
 DRAINAGE AREA 'A'**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
SHEET:	85 OF 107
DRAWING:	H07



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1/9/2026 10:21:07 AM



**SUB-BASIN 'B' INFORMATION**

SUBBASIN NAME	AREA (acres)	WCN	Tc Min:Sec	SOIL TYPE
B1.1	0.07	98.00	10:45	C
B1.1-D	0.08	74.00	5:00	C
B1.2	0.07	74.00	5:00	C
B1.3	0.07	98.00	10:45	C
B1.3-D	1.17	93.20	7:19	C
B1.4	0.54	98.00	5:00	C
B1.5	3.25	93.20	8:12	C
B1.6	0.17	74.00	5:00	C
B2.1	5.37	93.20	12:30	C
POND_B	1.11	74.00	3:05	C

**LEGEND:**

- DITCH FLOW
- SHEET FLOW
- OUTFLOW / CREEK FLOW
- SUB-BASIN LABEL
- BASIN LABEL
- BASIN BORDER
- SUB-BASIN BORDER



Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP 8554 E. 101ST ST., STE. C TULSA, OKLAHOMA 74133 (918) 369-7911	DATE	
	BY	
REVISION	DATE	
	BY	



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

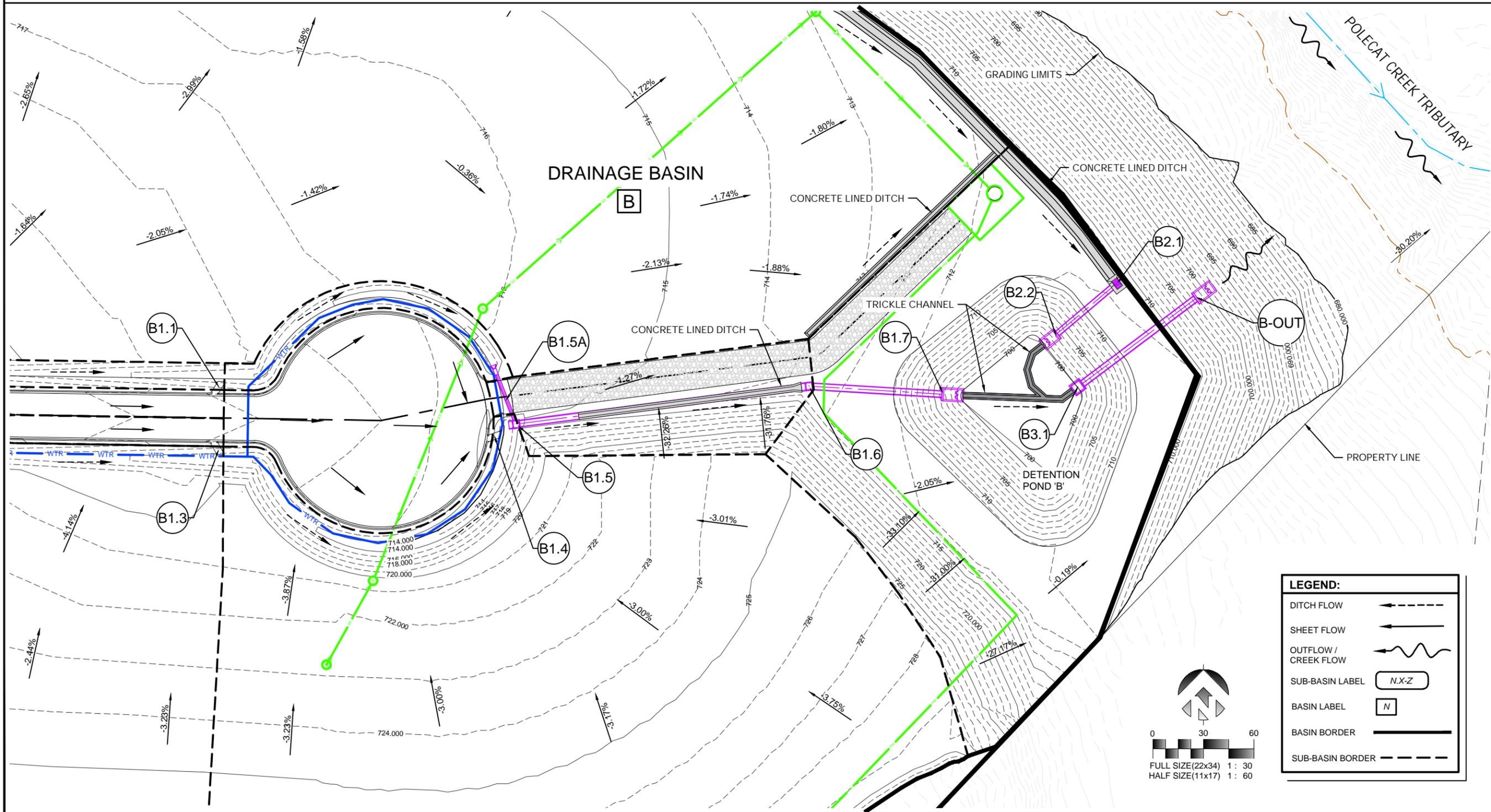
PHASE 1 (BASE BID)  
POST DEVELOPMENT  
DRAINAGE BASIN 'B'

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	86 OF 107
DRAWING:	H08

1 PHASE 1 - DRAINAGE BASIN 'B' SUB-BASINS

**STRUCTURE AND BASIN INFO**

STRUCTURE NAME	DESCRIPTION	INLET SOURCE	RIM / INLET ELEVATION	OUTLET INVERT ELEVATION	Q100 THRU INLET	SLOPE	ROUGHNESS	DEPTH	LENGTH	RECEIVING DITCH / PIPE NAME	RECEIVING DITCH / PIPE DESCRIPTION	ADDITIONAL INFLOW SOURCES	ACCUMULATIVE Q100 THRU PIPE / DITCH	FLOW VELOCITY THROUGH PIPE / DITCH	SLOPE	LENGTH	PIPE SIZE / DITCH BOTTOM WIDTH	DITCH SIDES	OVERALL DITCH DEPTH	ROUGHNESS MANNINGS NO.	MAX / TOTAL DEPTH FLOW RATIO	FLOWS TO / PAST
			Ft.	Ft.	CFS	(%)	Mannings No.	Ft.	Ft.				CFS	FPS	(%)	LF	in.		Ft.			
B1.1	FLUME	B1.1	717.95	716.25	0.66	16.40	0.013	-	10.50	B1.1-D	DITCH	B1.1-D	1.23	1.90	1.58	232.0	36	3:1	2.167	0.033	0.11	B1.2
B1.2	CULVERT	B1.2	712.61	712.40	1.79	0.84	0.013	-	25.00	-	PIPE	-	1.79	4.17	0.8	25	18	-	-	0.013	0.29	B1.5
B1.3	FLUME	B1.3	717.95	716.25	0.66	16.4	0.013	-	10.5	B1.3-D	DITCH	B1.3-D	12	3.53	1.58	245	36	3:1	2.167	0.013	0.36	B1.5
B1.4	FLUME	B1.4	714.05	712.31	5.93	16.88	0.013	-	10.5	-	-	-	-	-	-	-	-	-	-	-	-	B1.5
B1.5	DROP INLET	B1.4, B1.2, B1.3	712.30	707.44	49.88	-	0.013	4.86	-	B1.5	PIPE	-	49.88	7.95	0.49	172.8	42	-	-	0.013	0.62	B1.6
B1.6	DROP INLET	B1.6	712.99	700.00	1.55	-	0.013	12.99	-	B1.6	PIPE	-	51.34	8.68	0.61	82.5	42	-	-	0.013	0.59	B1.7 / POND_B
B2.1	DROP INLET	B2.1	710.08	699.80	48.59	-	0.013	10.28	-	B2.1	PIPE	-	48.59	8.46	0.60	50.25	36	-	-	0.013	0.76	B2.2 / POND_B
B3.1	WEIR	POND_B	710.00	700.00	64.05	-	0.013	10.00	-	B3.1	PIPE	-	64.04	8.79	0.56	89.20	42	-	-	0.013	0.71	B3.2 / B_OUT



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Plans and Estimates Prepared by:  
**KEITHLINE ENGINEERING GROUP**  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_



**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
 POST DEVELOPMENT  
 DRAINAGE AREA 'B'**

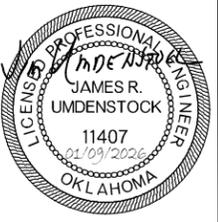
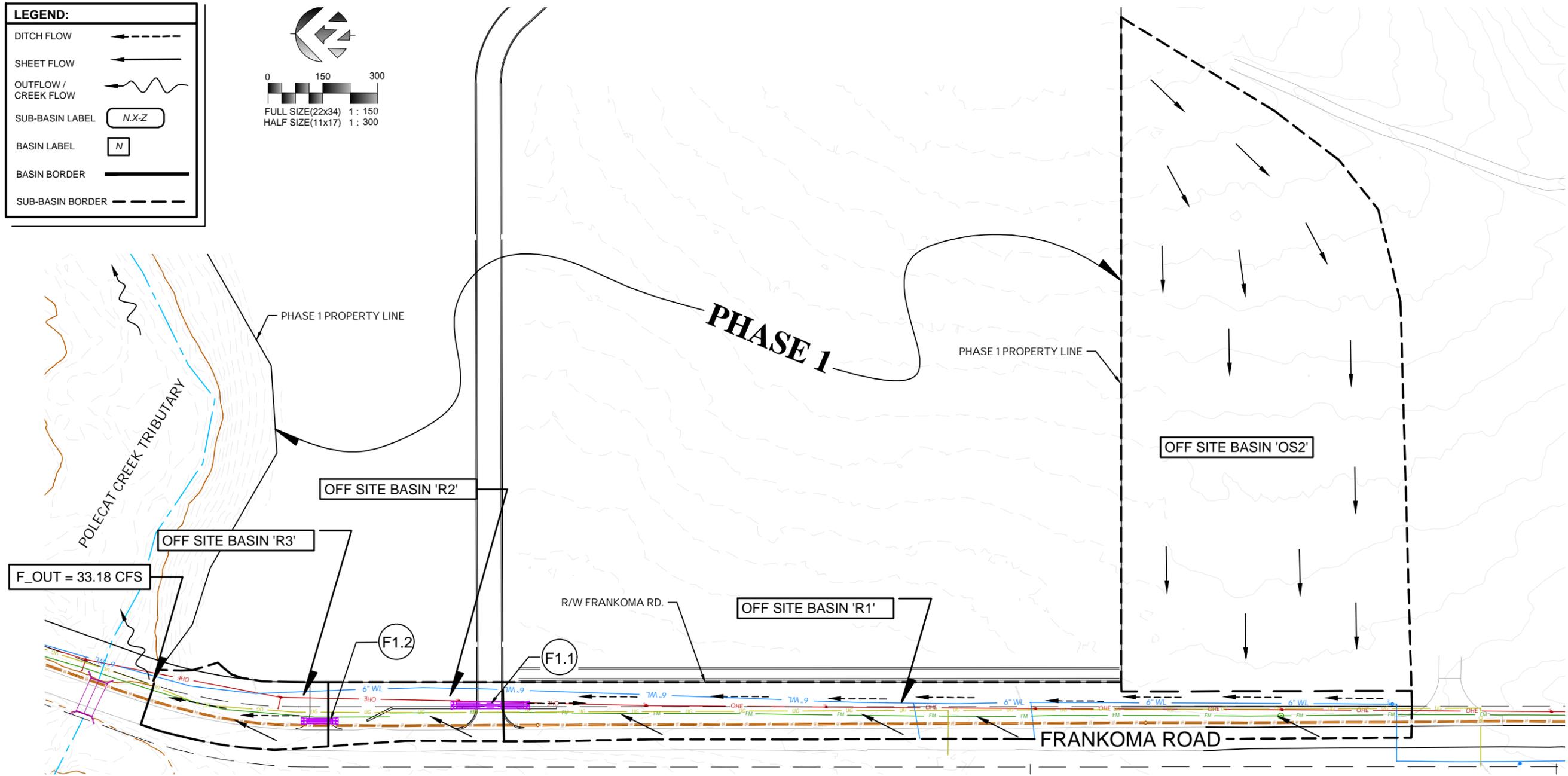
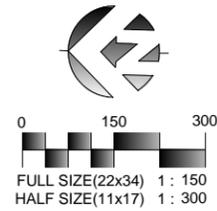
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
SHEET:	87 OF 107
DRAWING:	H09

STRUCTURE AND BASIN INFO										DITCH AND PIPE ANALYSIS												
STRUCTURE NAME	DESCRIPTION	SIZE	INLET SOURCE	RIM / INLET ELEVATION	OUTLET INVERT ELEVATION	Q100 THRU INLET	SLOPE	ROUGHNESS	LENGTH	RECEIVING DITCH / PIPE NAME	RECEIVING STRUCTURE TYPE	ADDITIONAL INFLOW SOURCES	ACCUMULATIVE Q100 THRU PIPE / DITCH	FLOW VELOCITY THROUGH PIPE / DITCH	SLOPE	LENGTH	PIPE SIZE / DITCH BOTTOM WIDTH	DITCH SIDES	OVERALL DITCH DEPTH	ROUGHNESS MANNINGS NO.	MAX / TOTAL DEPTH FLOW RATIO	FLows TO / PAST
				Ft.	Ft.	CFS	(%)	Mannings No.	Ft.				CFS	FPS	(%)	LF	in.		Ft.			
F1.1	DOUBLE ELLIPTICAL PIPE	2x (19"x30" HERCP)	R1, OS2	701.77	701.57	30.29	0.31	0.013	65.00	F1.1	DITCH	R2	31.51	5.03	2.01	135.00	36	3:1	3.000	0.033	0.34	F1.2
F1.2	DOUBLE ELLIPTICAL PIPE	2x (19"x30" HERCP)	R2	698.85	698.15	31.55	1.75	0.013	40.00	F1.2	DITCH	R3	33.18	4.89	1.80	175.00	36	3:1	3.000	0.033	0.36	F_OUT

PHASE 1 OFFSITE SUB-BASIN INFORMATION						
BASIN NAME	AREA	TOTAL PRECIP.	PEAK RUNOFF	Tc	WEIGHTED CURVE NUMBER	SOIL TYPE
	(acres)	(inches)	(cfs)	(days hh:mm:ss)		
OS1	4.30	8.40	24.97	0 00:19:54	74.00	C
R1	1.22	8.40	10.97	0 00:06:25	80.67	C
R2	0.28	8.40	2.48	0 00:06:25	80.67	C
R3	5.00	8.40	3.00	0 00:06:25	80.67	C

**LEGEND:**

- DITCH FLOW:
- SHEET FLOW:
- OUTFLOW / CREEK FLOW:
- SUB-BASIN LABEL:
- BASIN LABEL:
- BASIN BORDER:
- SUB-BASIN BORDER:



Plans and Estimates Prepared by:

KEITHLINE ENGINEERING GROUP	DATE
8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY
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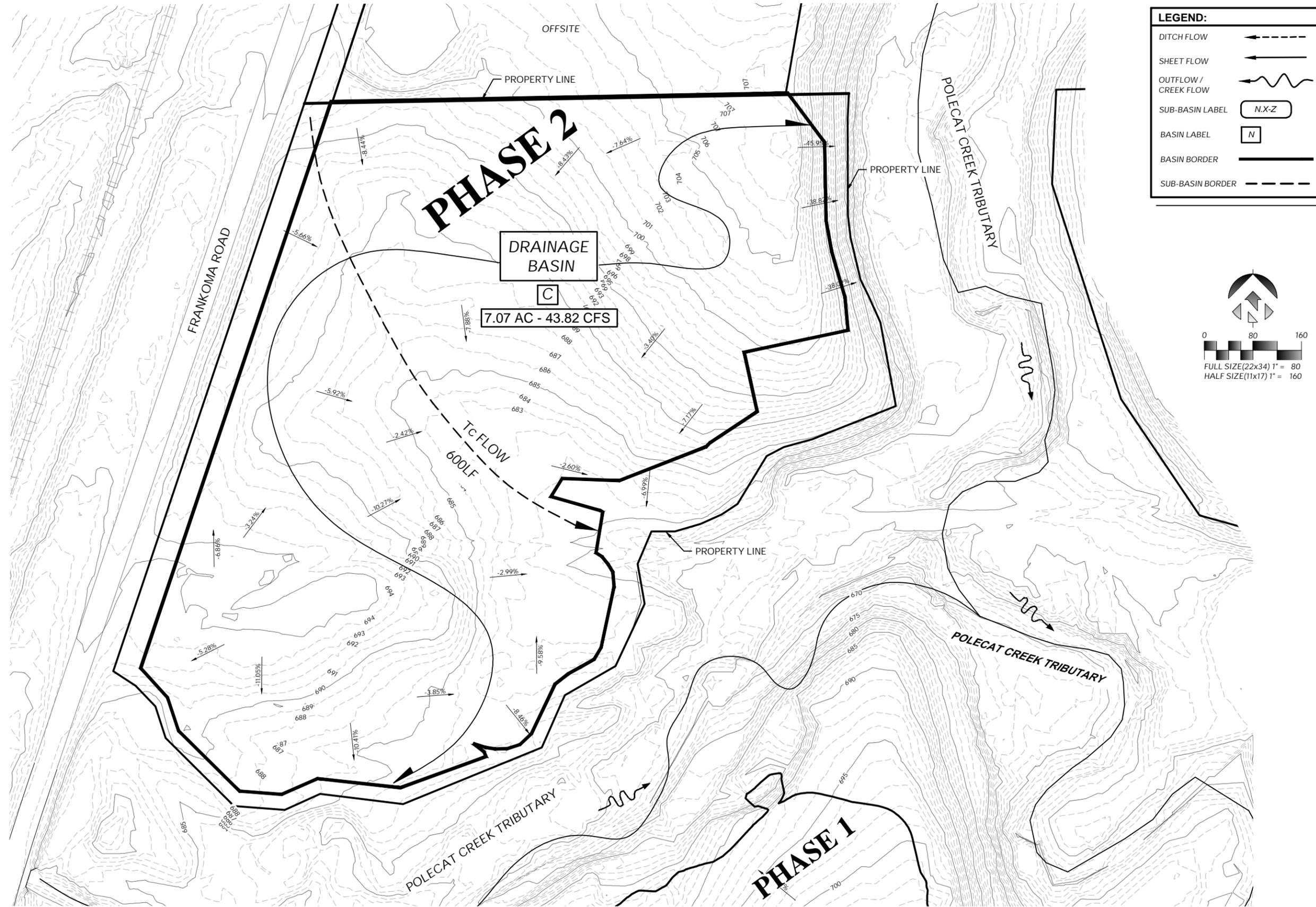
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 OFFSITE DRAINAGE  
 DRAINAGE AREA &  
 BASIN INFORMATION

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE:	JANUARY 9, 2026
SHEET:	88 OF 107
DRAWING:	

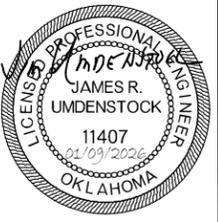
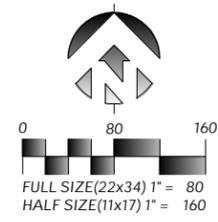
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**LEGEND:**

- DITCH FLOW
- SHEET FLOW
- OUTFLOW / CREEK FLOW
- SUB-BASIN LABEL N.X-Z
- BASIN LABEL N
- BASIN BORDER
- SUB-BASIN BORDER



Plans and Estimates Prepared by:

KE KEITHLINE ENGINEERING GROUP	DATE
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REVISION	



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

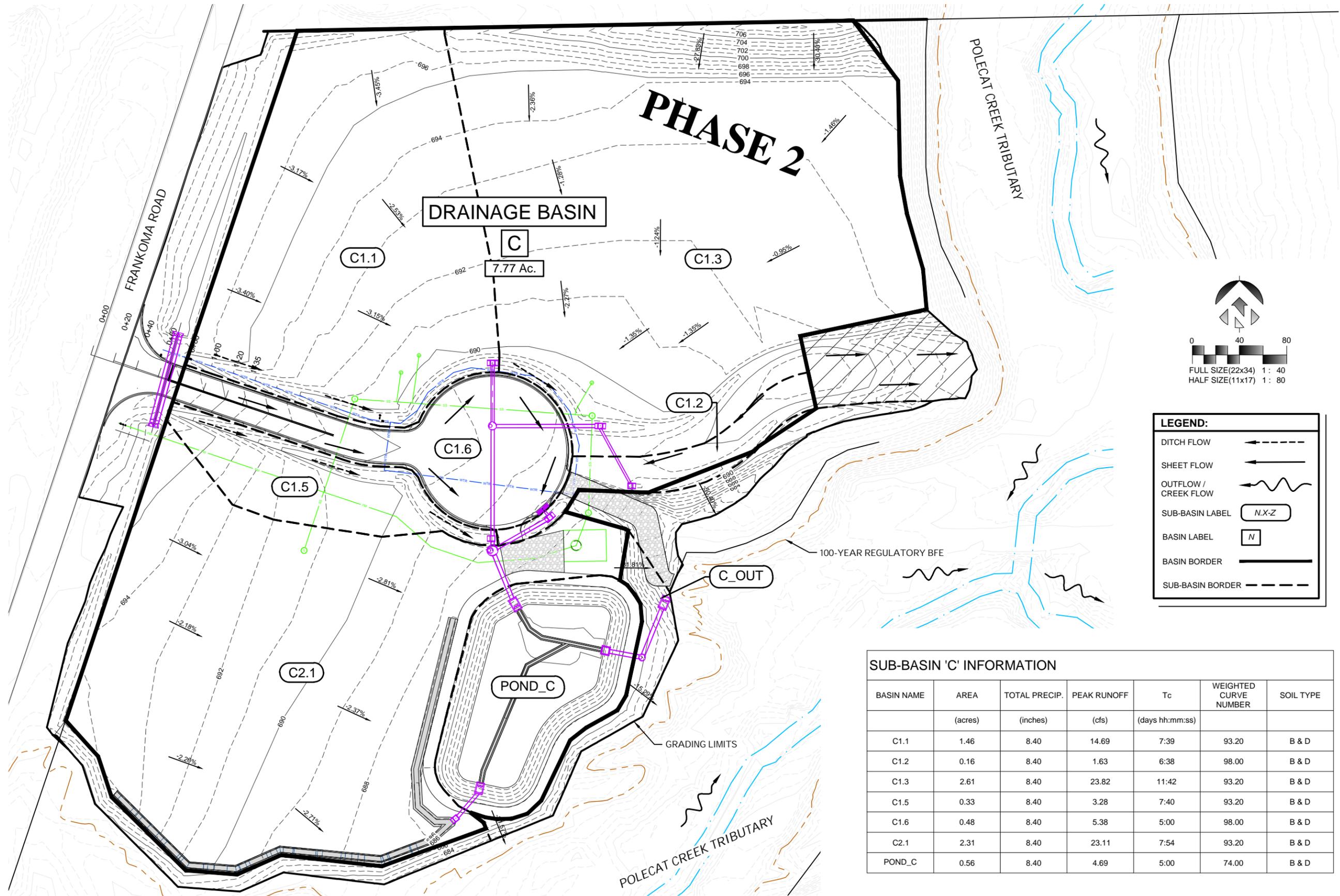
SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
 PRE DEVELOPMENT  
 DRAINAGE  
 OVERVIEW

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	89 OF 107
DRAWING:	H11

1 PHASE 2 - PRE DEVELOPMENT DRAINAGE BASIN OVERVIEW

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**LEGEND:**

- DITCH FLOW
- SHEET FLOW
- OUTFLOW / CREEK FLOW
- SUB-BASIN LABEL
- BASIN LABEL
- BASIN BORDER
- SUB-BASIN BORDER

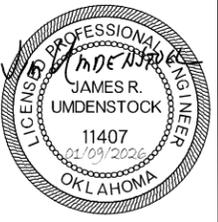
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FULL SIZE(22x34) 1: 40  
HALF SIZE(11x17) 1: 80

**SUB-BASIN 'C' INFORMATION**

BASIN NAME	AREA	TOTAL PRECIP.	PEAK RUNOFF	Tc	WEIGHTED CURVE NUMBER	SOIL TYPE
	(acres)	(inches)	(cfs)	(days hh:mm:ss)		
C1.1	1.46	8.40	14.69	7:39	93.20	B & D
C1.2	0.16	8.40	1.63	6:38	98.00	B & D
C1.3	2.61	8.40	23.82	11:42	93.20	B & D
C1.5	0.33	8.40	3.28	7:40	93.20	B & D
C1.6	0.48	8.40	5.38	5:00	98.00	B & D
C2.1	2.31	8.40	23.11	7:54	93.20	B & D
POND_C	0.56	8.40	4.69	5:00	74.00	B & D

1 PHASE 2 - POST DEVELOPMENT BASIN & SUB-BASIN OVERVIEW



Plans and Estimates Prepared By:

**KE** KEITHLINE ENGINEERING GROUP  
8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911

BY	DATE
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**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 2  
POST DEVELOPMENT  
DRAINAGE BASIN 'C'**

PROJECT # 24.11  
SURVEY AJN (FLS) 12/2024  
DESIGNED DAK, JRJ, MAW (KEG)  
DRAWN ZLM, AK, MAW (KEG)  
ATLAS PAGE NO. --  
DATE: JANUARY 9, 2026  
SHEET: 90 OF 107  
DRAWING: H12

STRUCTURE AND BASIN INFO

DITCH AND PIPE ANALYSIS

STRUCTURE NAME	DESCRIPTION	INLET SOURCE(S)	ADDITIONAL INFLOW SOURCES	RIM / INLET ELEVATION	OUTLET INVERT ELEVATION	Q100 THRU INLET	SLOPE	ROUGHNESS	DEPTH	LENGTH	RECEIVING DITCH / PIPE NAME	RECEIVING STRUCTURE TYPE	ACCUMULATIVE Q100 THRU PIPE / DITCH	FLOW VELOCITY THROUGH PIPE / DITCH	SLOPE	LENGTH	PIPE SIZE / DITCH BOTTOM WIDTH	DITCH SIDES	OVERALL DITCH DEPTH	ROUGHNESS MANNINGS NO.	MAX / TOTAL DEPTH FLOW RATIO	FLOWS TO / PAST
				Ft.	Ft.	CFS	(%)	Mannings No.	Ft.	Ft.			CFS	FPS	(%)	LF	in.		Ft.			
C1.1	DROP INLET	C1.1	-	687.00	683.21	14.04	-	0.013	3.79	-	C1.1	PIPE	14.04	6.26	0.60	154.50	30	-	-	0.013	0.47	C1.4
C1.2	DROP INLET	C1.2	-	686.95	683.16	1.60	-	0.013	3.79	-	C1.2	PIPE	1.60	3.46	0.55	53.20	18	-	-	0.013	0.31	C1.3
C1.3	DROP INLET	C1.3	-	686.14	682.35	23.82	-	0.013	3.79	-	C1.3	PIPE	25.02	6.45	0.46	86.39	30	-	-	0.013	0.73	C1.4
C1.4	MANHOLE	-	C1.1, C1.3	688.81	681.95	-	-	0.013	6.84	-	C1.4	PIPE	38.04	8.80	0.83	90.05	30	-	-	0.013	0.91	C1.5
C1.5	DROP INLET	C1.5	-	686.10	681.20	3.28	-	0.013	4.90	-	C1.5	PIPE	40.98	11.29	1.46	4.10	30	-	-	0.013	0.69	C1.8
C1.6	CICI	C1.6	-	686.89	682.72	5.38	-	0.013	4.17	-	C1.6	PIPE	5.38	8.38	1.17	6.20	18	-	-	0.013	0.49	C1.7
C1.7	DROP INLET	-	-	685.25	681.46	< 1	-	0.013	3.78	-	C1.7	PIPE	5.33	6.26	1.26	50.29	30	-	-	0.013	0.23	C1.8
C1.8	MANHOLE	-	C1.5, C1.7	688.34	680.79	-	-	0.013	7.55	-	C1.8	PIPE	45.21	8.72	0.69	42.3	36	-	-	0.013	0.69	C1.9 / POND_C



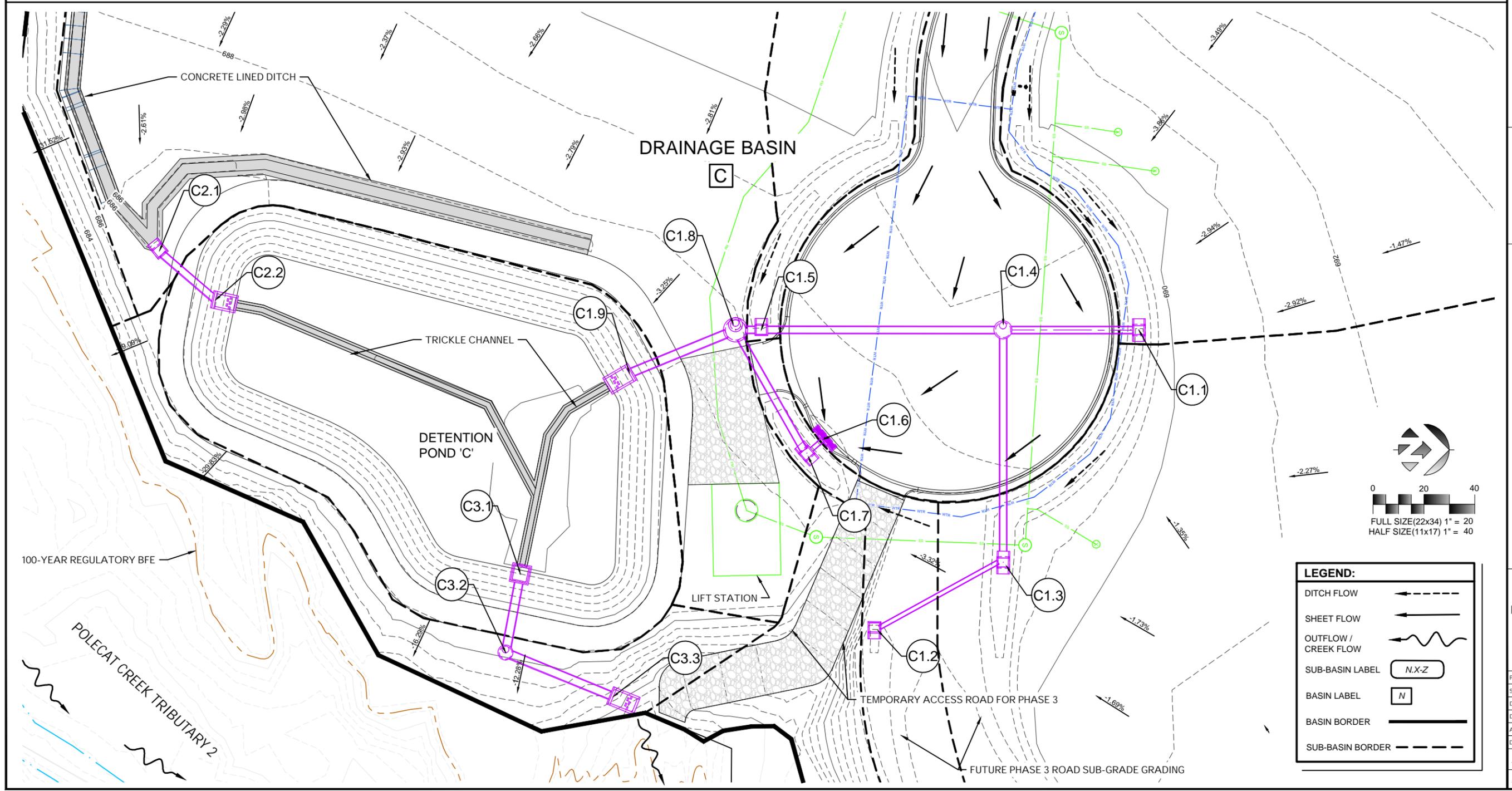
Plans and Estimates Prepared by:  
**KE** KEITHLINE ENGINEERING GROUP  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_



ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2  
 POST DEVELOPMENT  
 DRAINAGE AREA 'C'

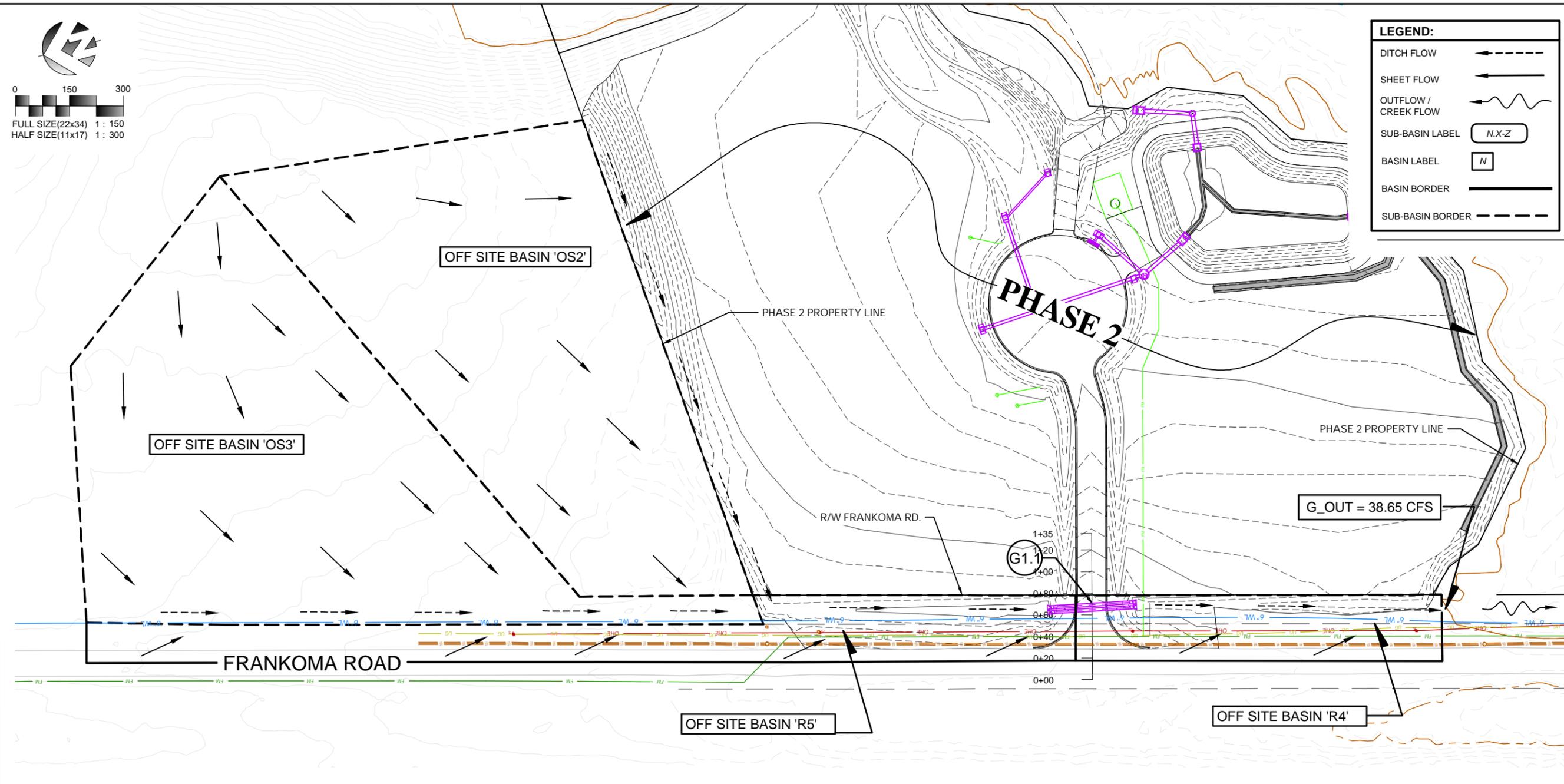
PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	-
DATE	JANUARY 9, 2026
SHEET:	91 OF 107
DRAWING:	H13



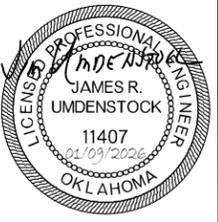
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STRUCTURE AND BASIN INFO										DITCH AND PIPE ANALYSIS												
STRUCTURE NAME	DESCRIPTION	SIZE	INLET SOURCE	RIM / INLET ELEVATION	OUTLET INVERT ELEVATION	Q100 THRU INLET	SLOPE	ROUGHNESS	LENGTH	RECEIVING DITCH / PIPE NAME	RECEIVING STRUCTURE TYPE	ADDITIONAL INFLOW SOURCES	ACCUMULATIVE Q100 THRU PIPE / DITCH	FLOW VELOCITY THROUGH PIPE / DITCH	SLOPE	LENGTH	PIPE SIZE / DITCH BOTTOM WIDTH	DITCH SIDES	OVERALL DITCH DEPTH	ROUGHNESS MANNINGS NO.	MAX / TOTAL DEPTH FLOW RATIO	FLOWS TO / PAST
				Ft.	Ft.	CFS	(%)	Mannings No.	Ft.				CFS	FPS	(%)	LF	in.		Ft.			
G1.1	DOUBLE ELIPTICAL PIPE	2x (19"x30" HERCP)	OS2, OS3, R5	694.05	693.75	28.97	0.50	0.013	60.00	G1.1	DITCH	R4	30.58	1.65	0.64	280.00	36	3:1	2.500	0.033	0.82	G_OUT

PHASE 2 OFFSITE SUB-BASIN INFORMATION						
BASIN NAME	AREA (acres)	TOTAL PRECIP. (inches)	PEAK RUNOFF (cfs)	Tc (days hh:mm:ss)	WEIGHTED CURVE NUMBER	SOIL TYPE
OS2	2.52	8.40	10.56	0 00:24:27	65.00	C
OS3	2.79	8.40	15.80	0 00:23:36	77.00	C
R4	0.47	8.40	4.21	0 00:06:25	80.67	C
R5	0.90	8.40	8.08	0 00:06:25	80.67	C



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Plans and Estimates Prepared by:  
**KEITHLINE ENGINEERING GROUP**  
 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_ REVISION: \_\_\_\_\_



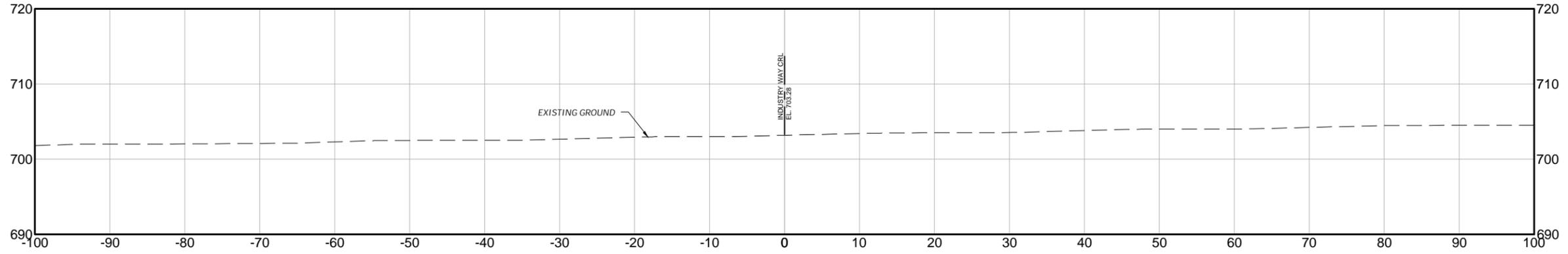
**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 2 (ALT 1)  
 OFFSITE DRAINAGE  
 DRAINAGE AREA &  
 BASIN INFOMATION

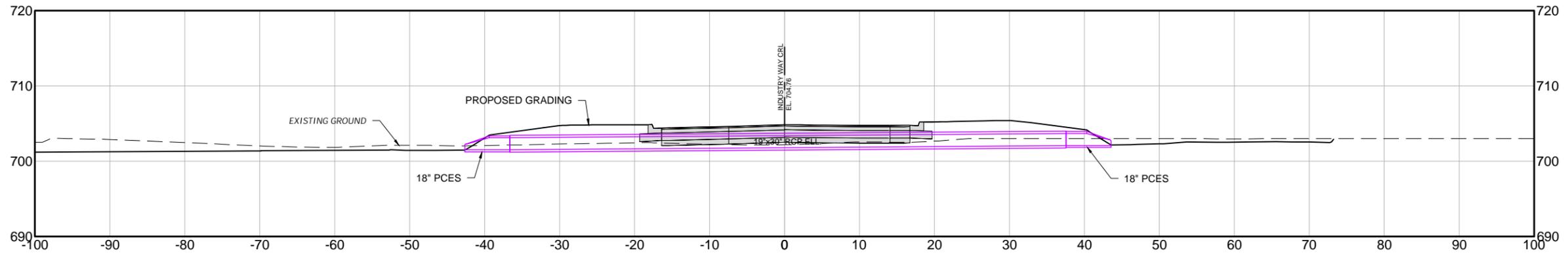
PROJECT # 24.11  
 SURVEY AJN (FLS) 12/2024  
 DESIGNED DAK, JRJ, MAW (KEG)  
 DRAWN ZLM, AK, MAW (KEG)  
 ATLAS PAGE NO. --  
 DATE: JANUARY 9, 2026  
 SHEET: 92 OF 107  
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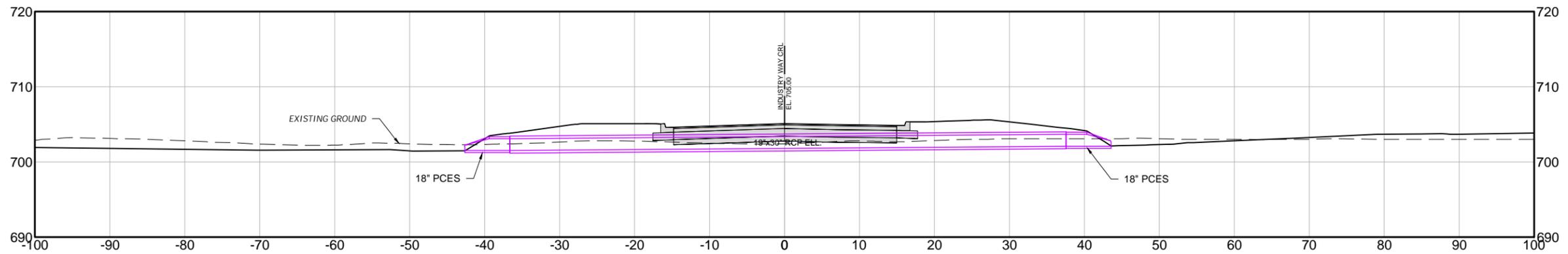
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20+35.91



20+40.46



Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		DATE	
		REVISION	



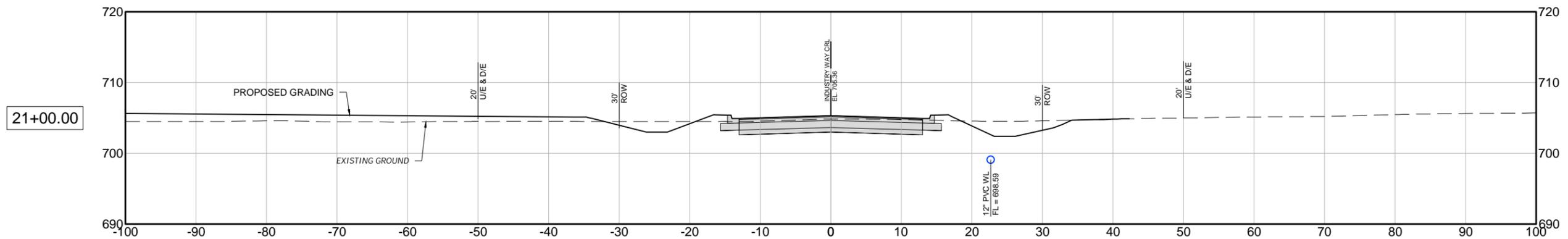
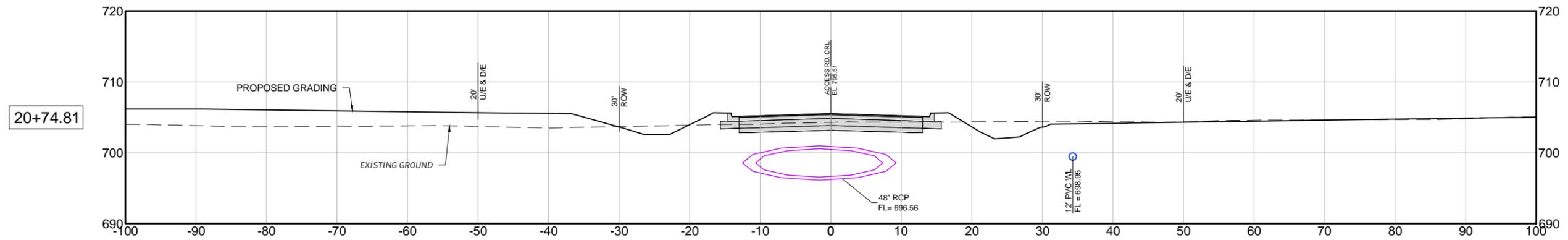
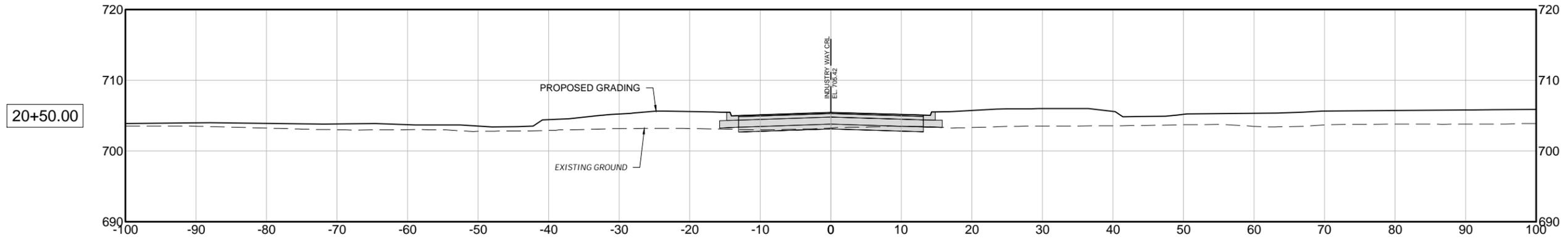
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 20+00 TO  
STA 20+37.78

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	93 OF 107
DRAWING:	X01

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Plans and Estimates Prepared by:

KE	KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		DATE	
		REVISION	



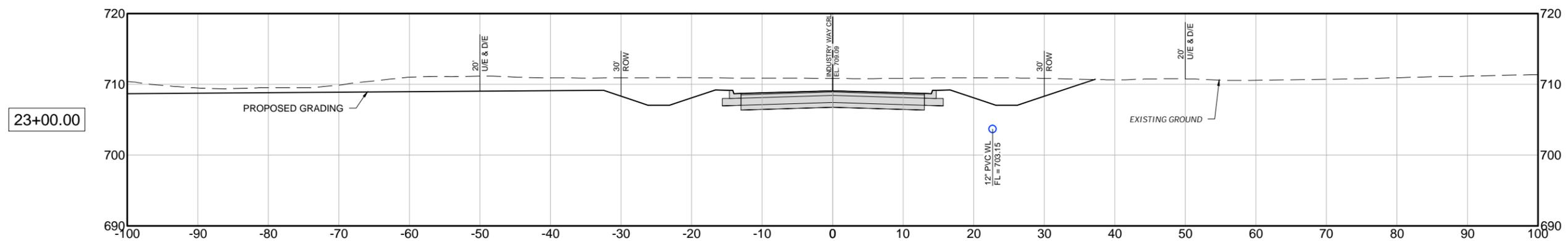
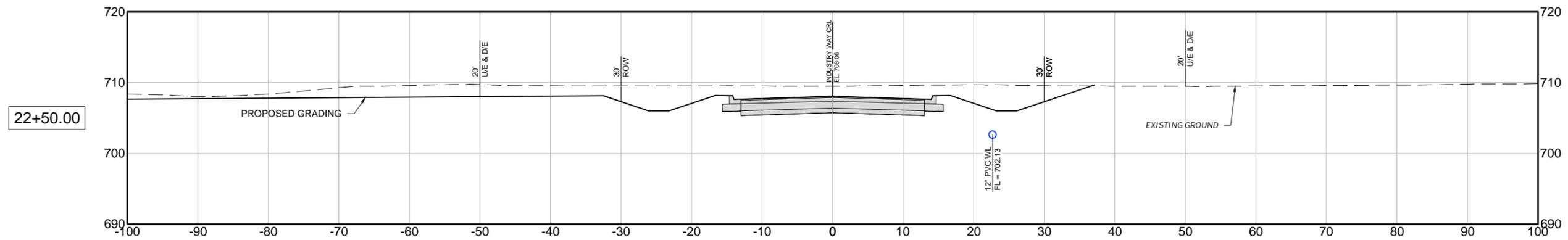
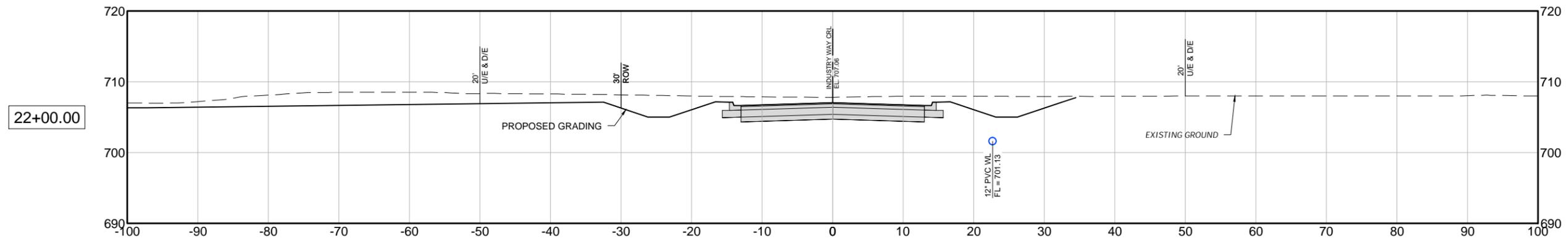
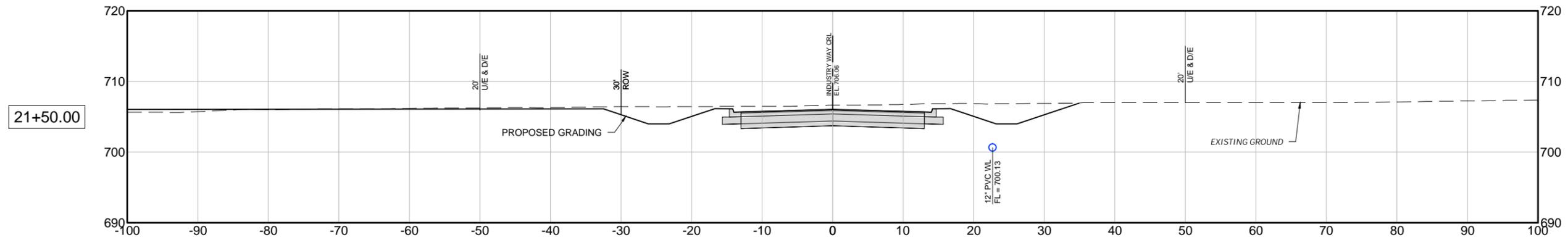
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 20+50 TO  
STA 21+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
<b>SHEET:</b>	<b>94 OF 107</b>
<b>DRAWING:</b>	<b>X02</b>

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		REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

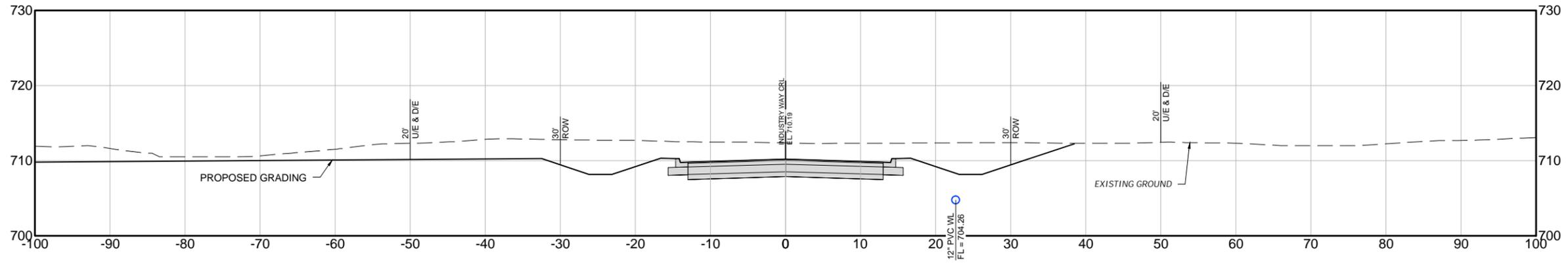
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 21+50 TO  
STA 23+00**

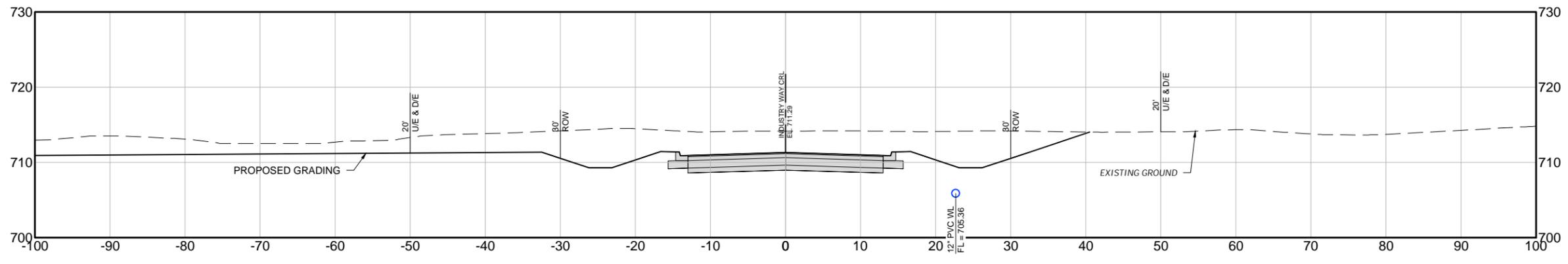
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DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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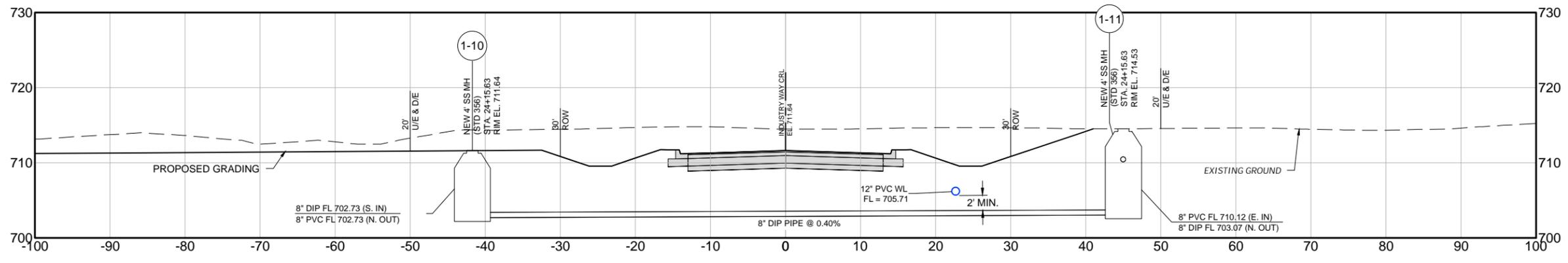
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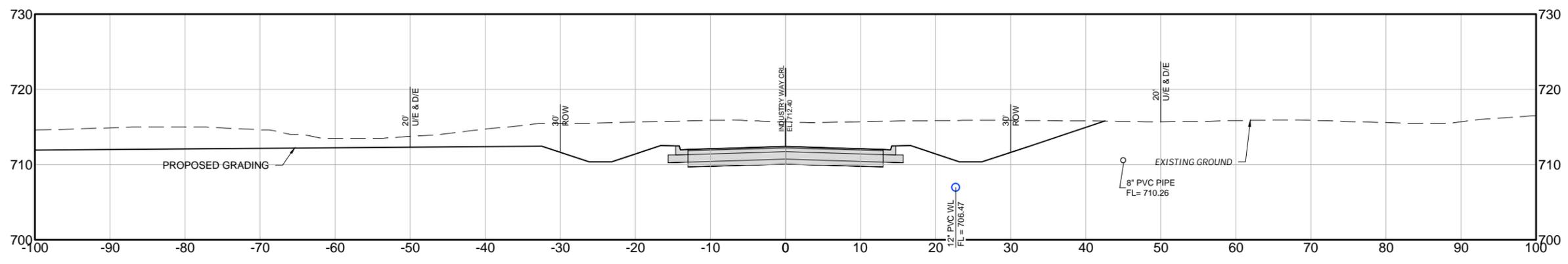
24+00.00



24+15.63



24+50.00



Plans and Estimates Prepared by:

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	REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

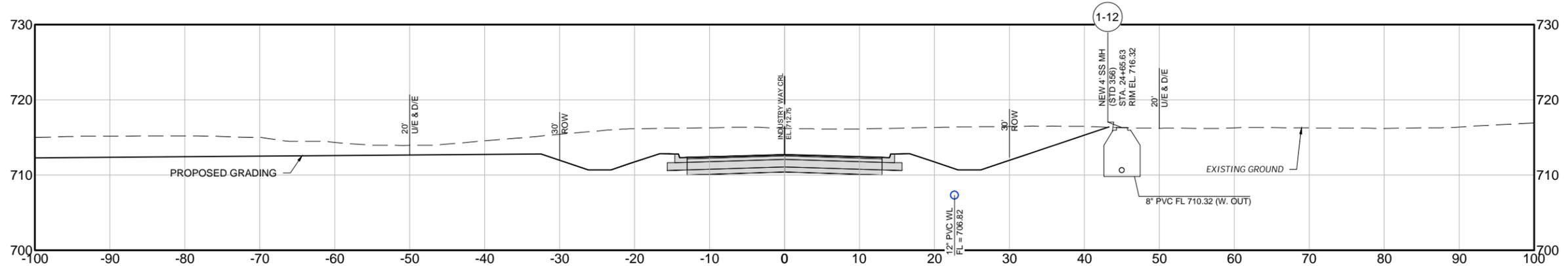
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 23+50 TO  
STA 24+50**

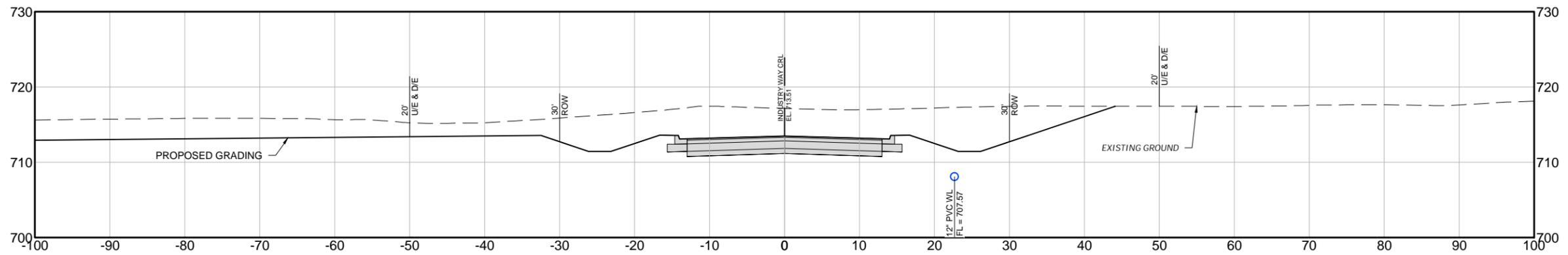
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
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DATE:	JANUARY 9, 2026
SHEET:	96 OF 107
DRAWING:	X04

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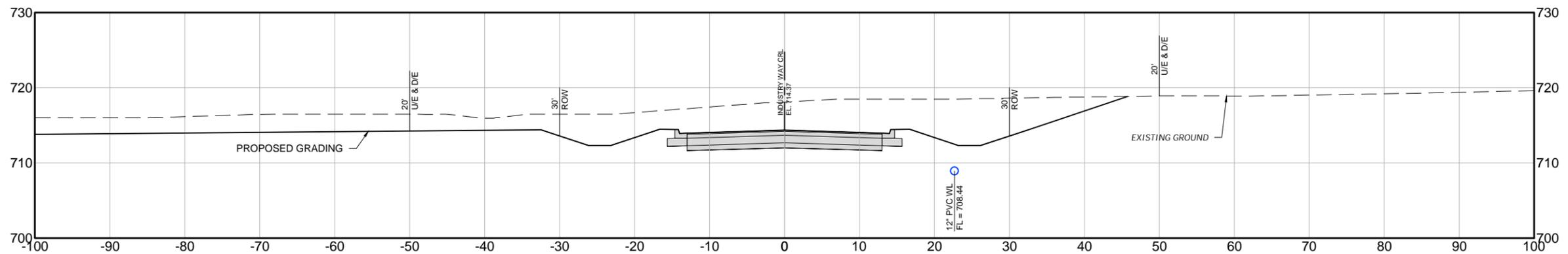
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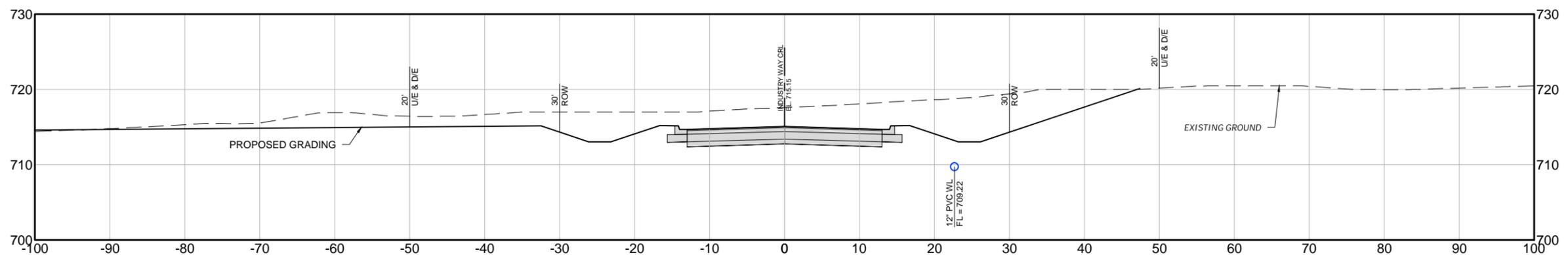
25+00.00



25+50.00



26+00.00



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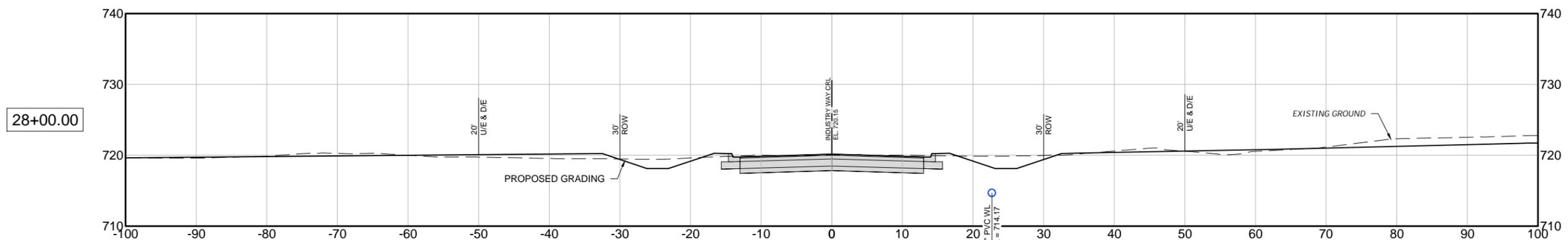
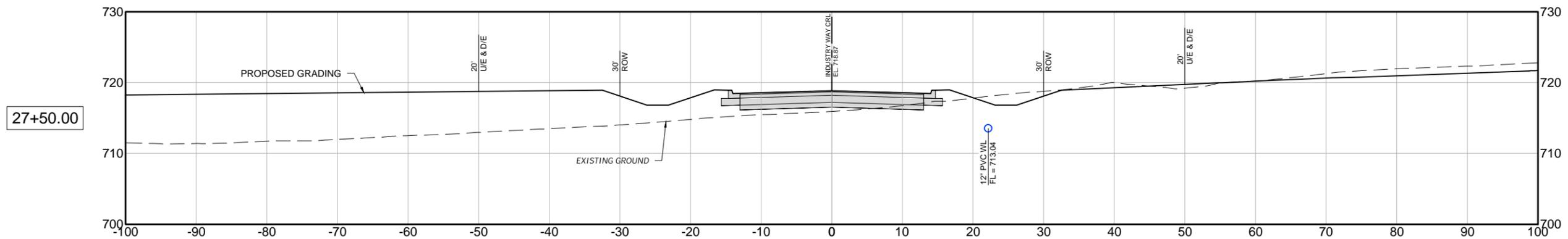
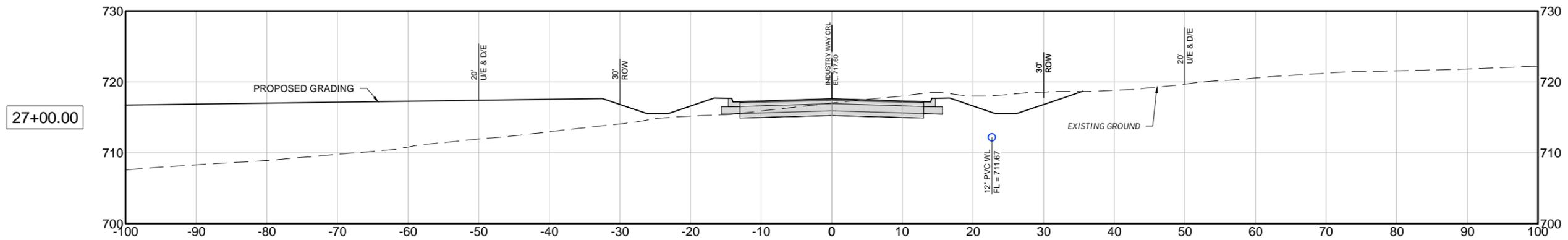
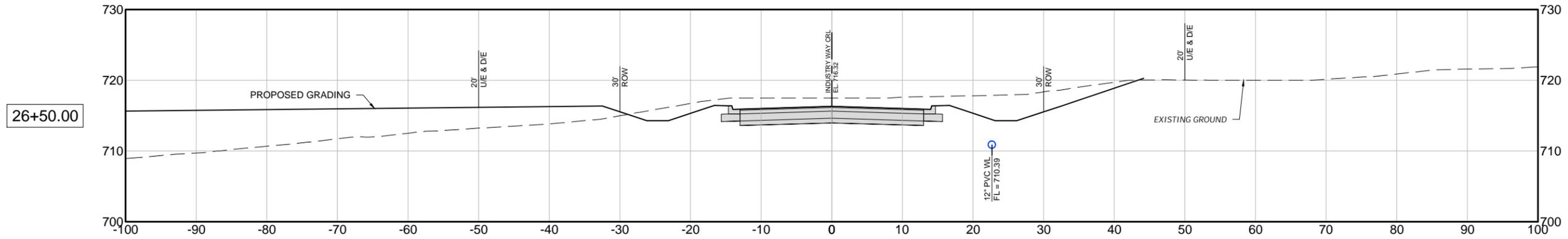
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 24+65.63 TO  
STA 26+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	97 OF 107
DRAWING:	X05

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		DATE	
		REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

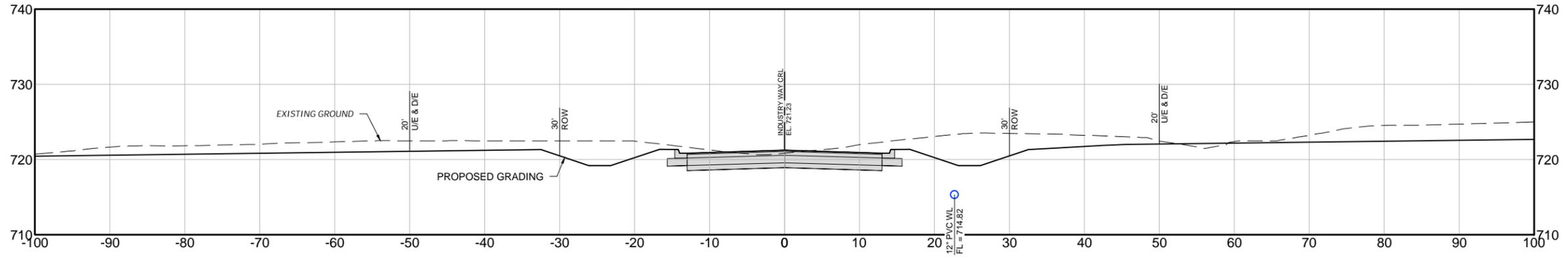
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTION  
STA 26+50 TO  
STA 28+00**

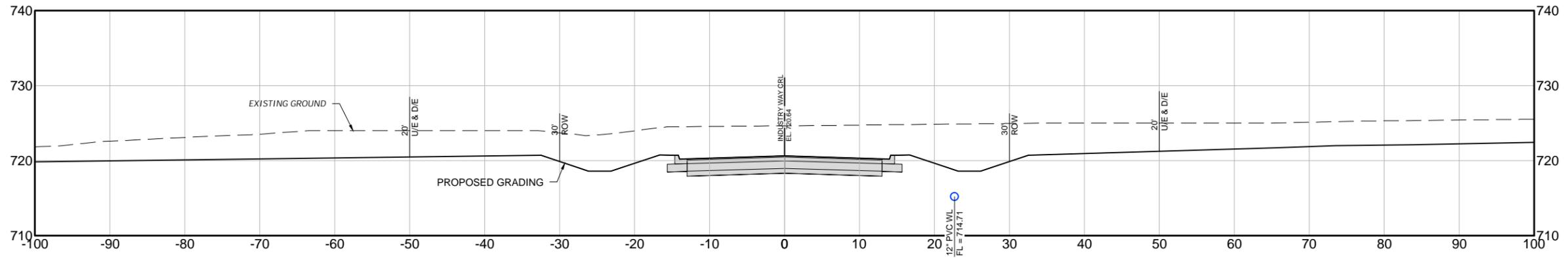
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
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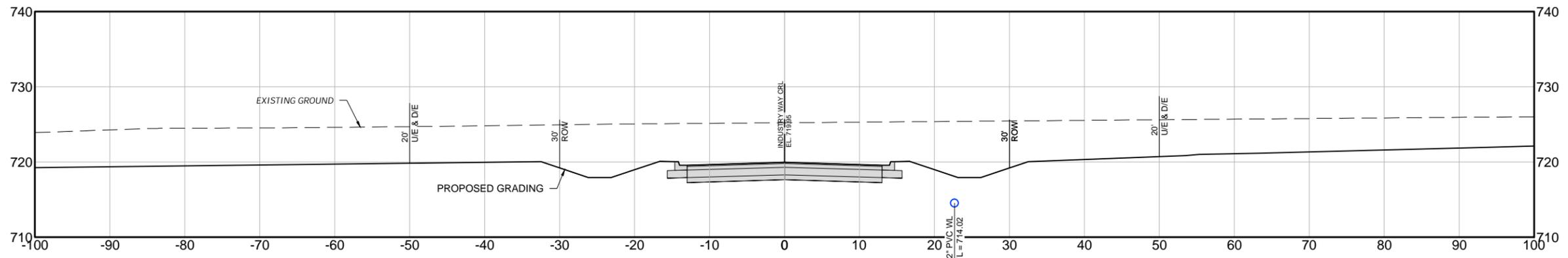
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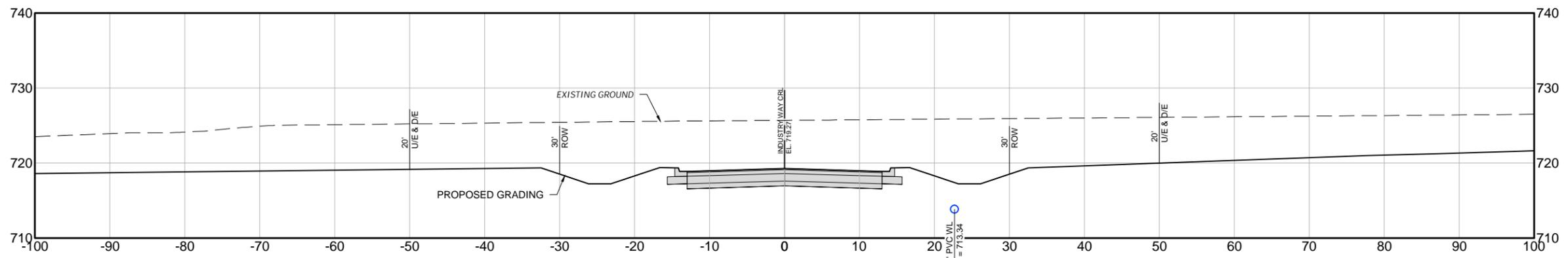
29+00.00



29+50.00



30+00.00



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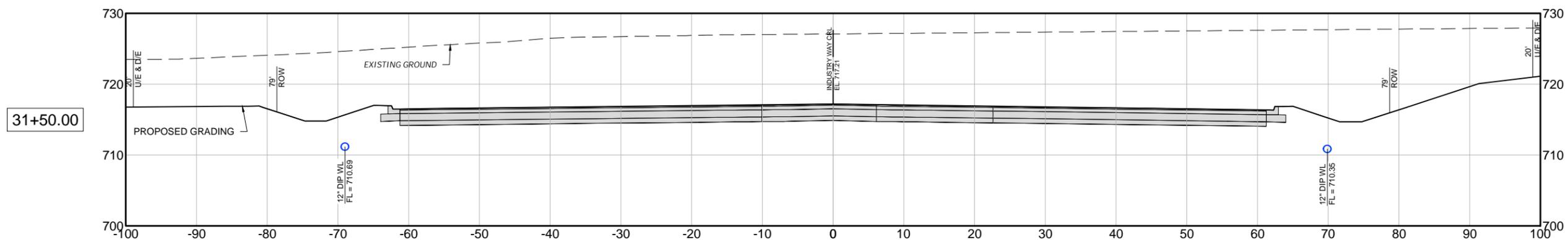
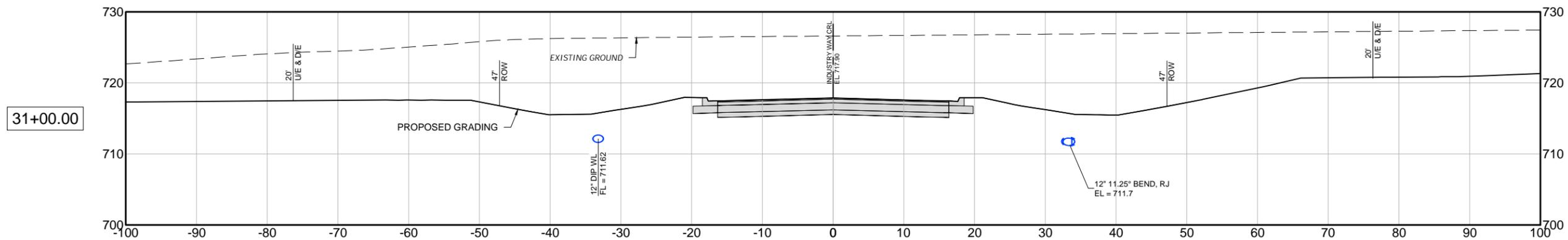
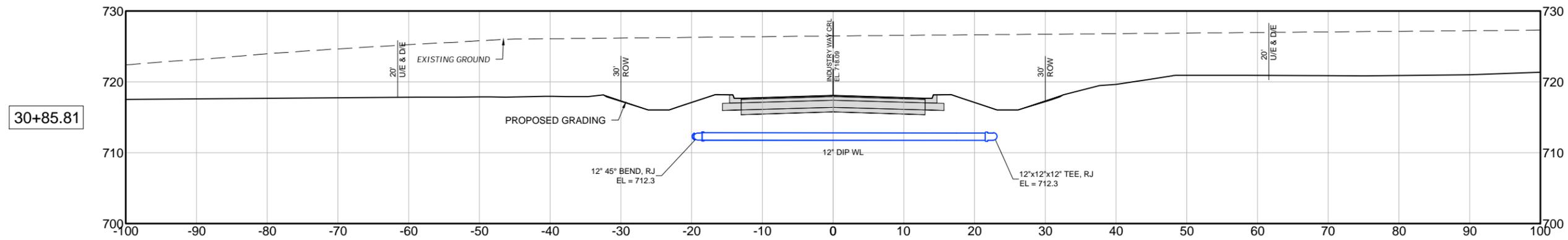
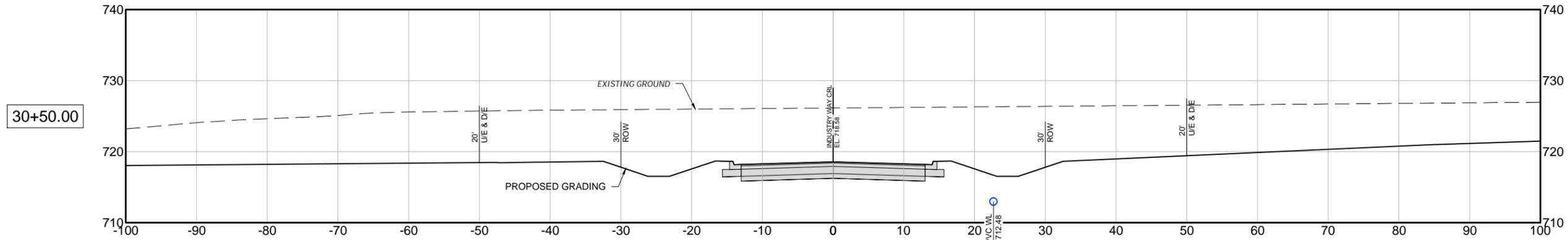
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTION  
STA 28+50 TO  
STA 30+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	99 OF 107
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	REVISION	



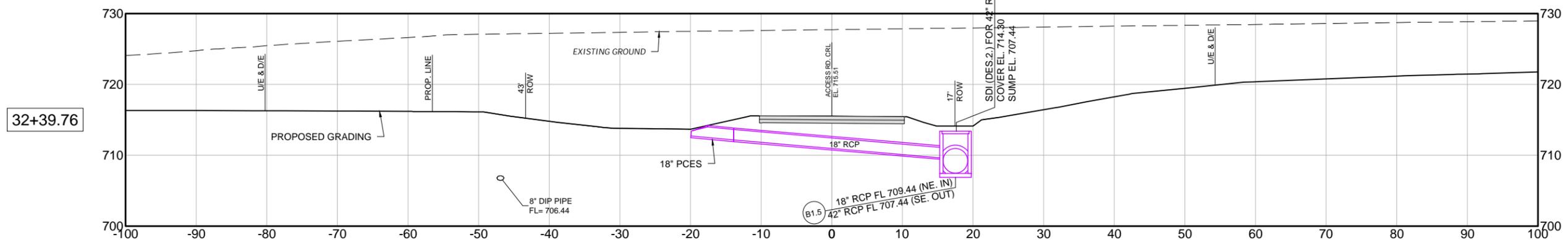
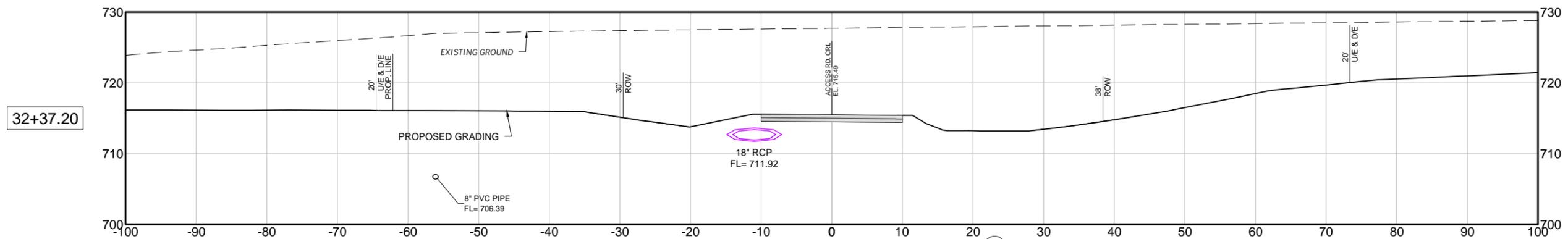
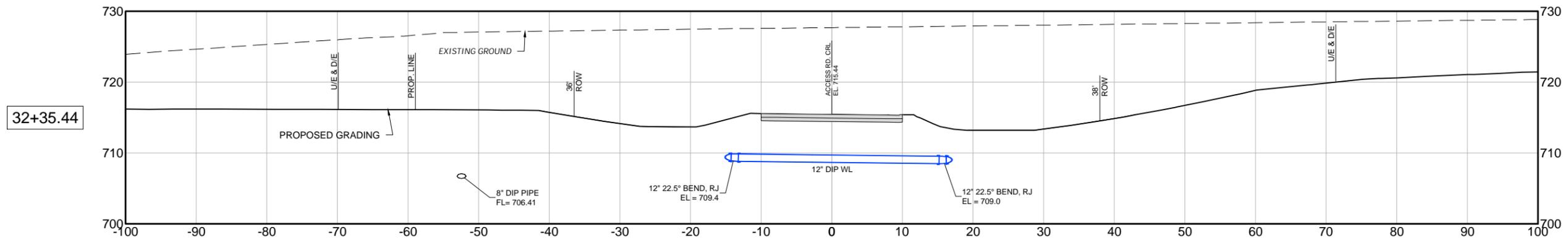
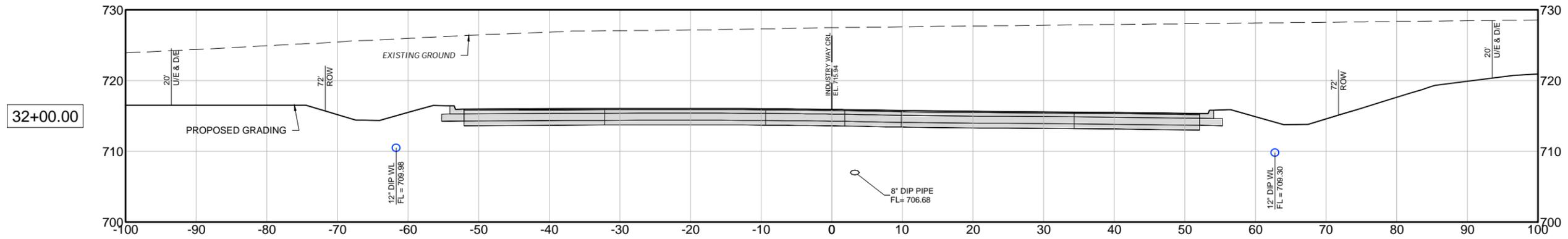
**ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
 CROSS SECTION  
 STA 30+50 TO  
 STA 31+50**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
<b>SHEET:</b>	<b>100 OF 107</b>
<b>DRAWING:</b>	<b>X08</b>

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



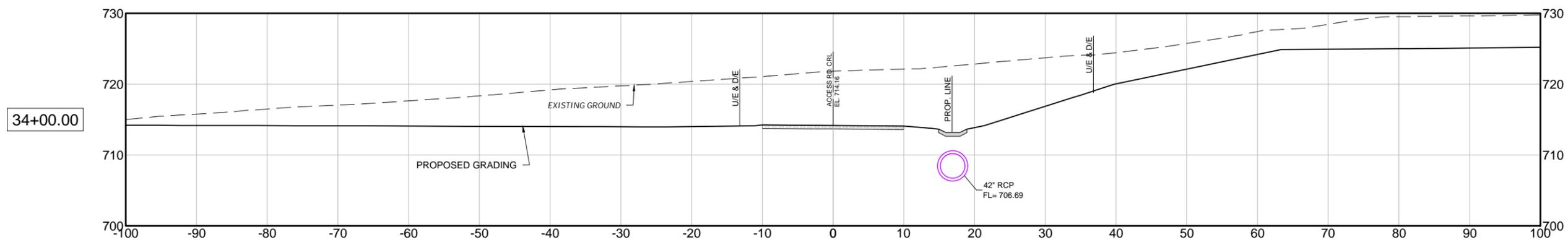
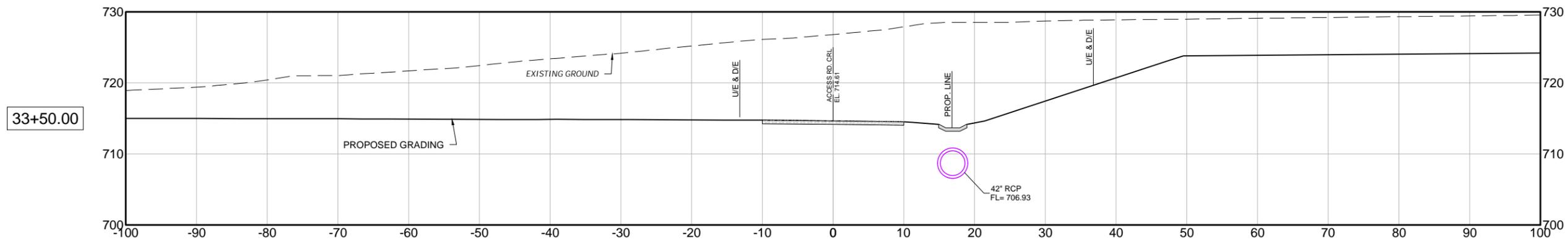
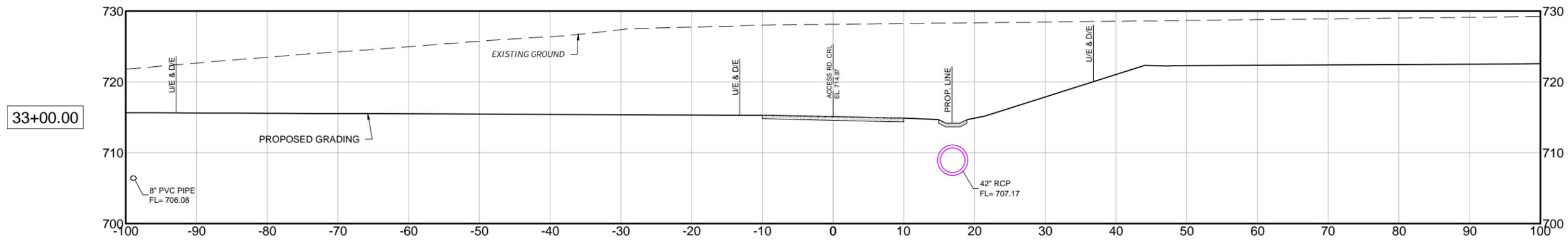
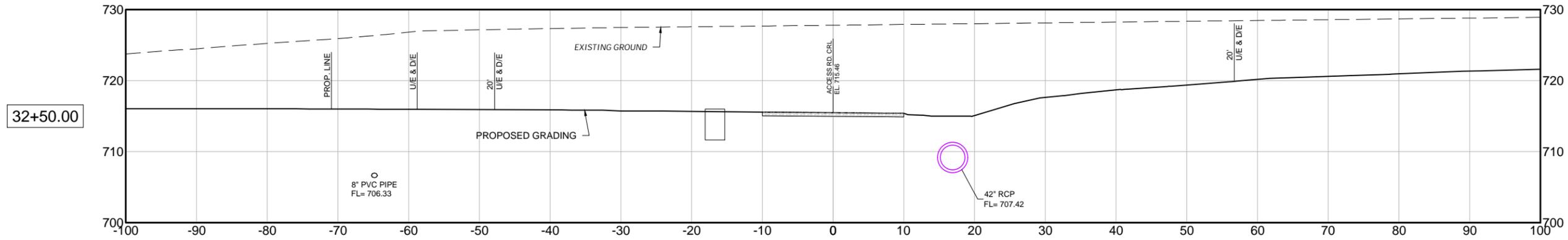
ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 CROSS SECTIONS  
 STA 32+00 TO  
 STA 32+39.76

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	101 OF 107
DRAWING:	X09

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Plans and Estimates Prepared by:

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	8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	
		REVISION	

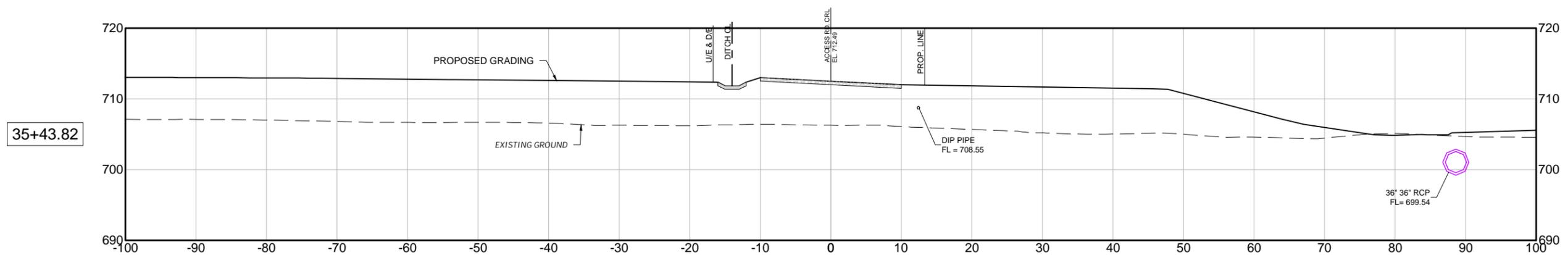
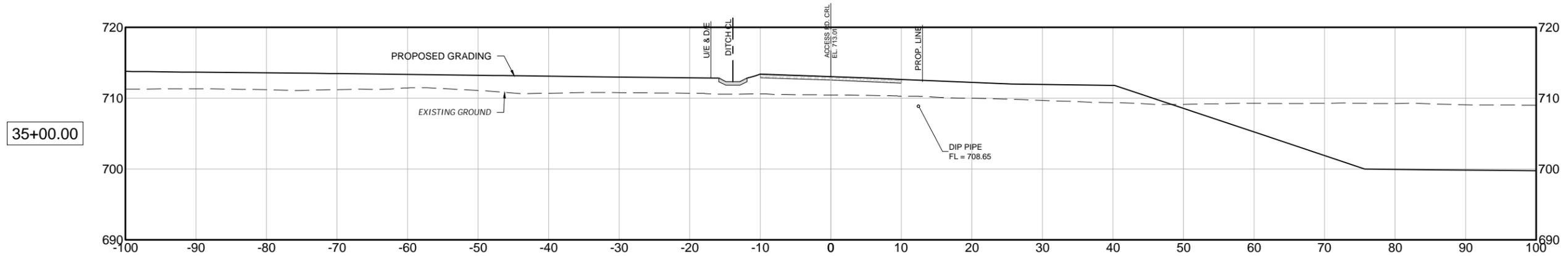
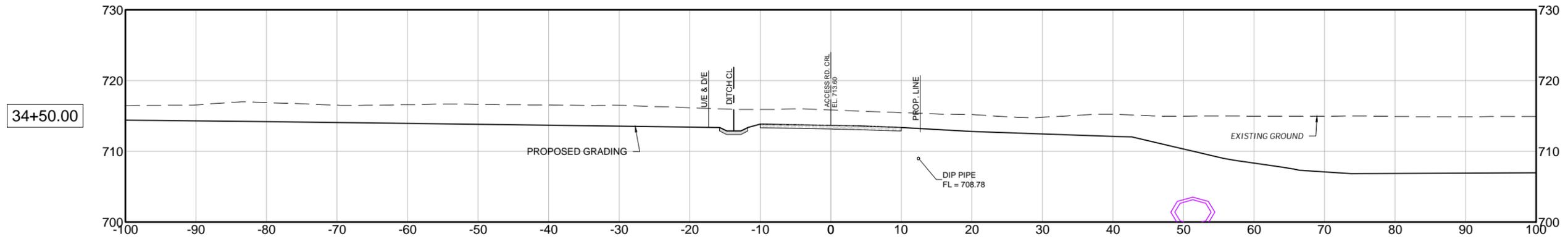


ROUTE 66 INDUSTRIAL PARK  
 PHASE 1 & 2 - SITE DEVELOPMENT  
 SAPULPA DEVELOPMENT AUTHORITY  
 SAPULPA, OKLAHOMA

PHASE 1 (BASE BID)  
 CROSS SECTIONS  
 STA 32+50 TO  
 STA 34+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	102 OF 107
DRAWING:	X10

1/9/2026 10:22:58 AM



Plans and Estimates Prepared by:

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BY	DATE
REVISION	



**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

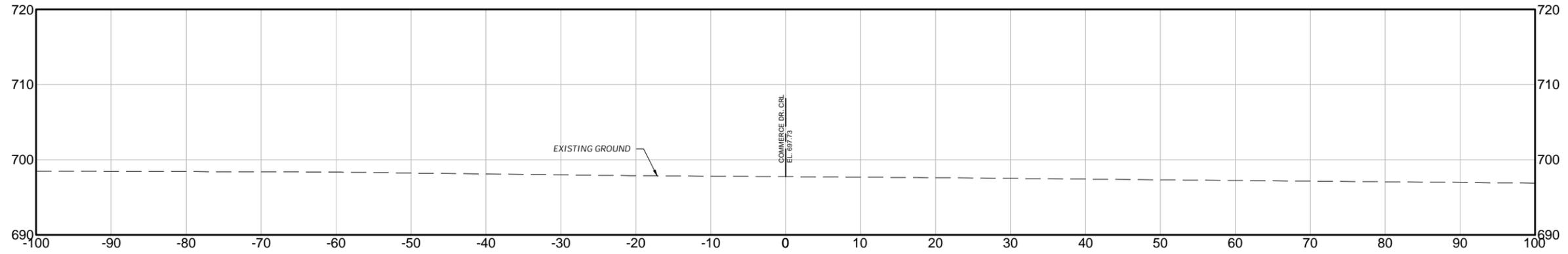
**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 1 (BASE BID)  
CROSS SECTIONS  
STA 34+50 TO  
STA 35+43.82**

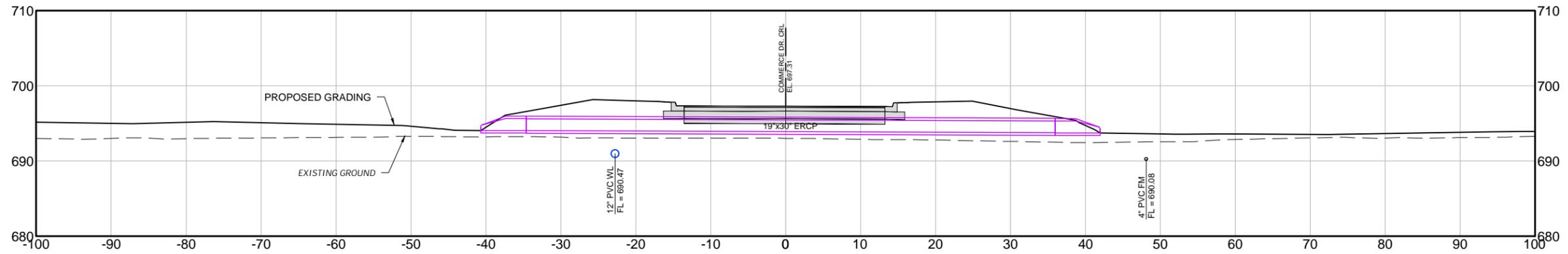
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SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
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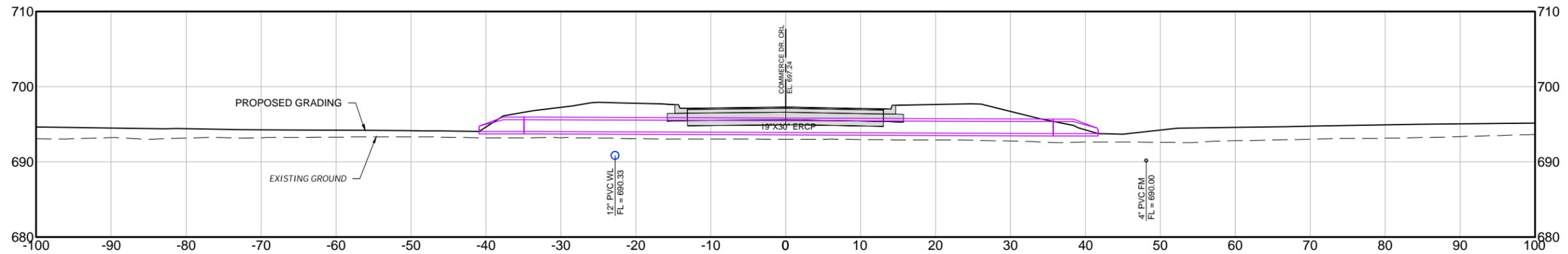
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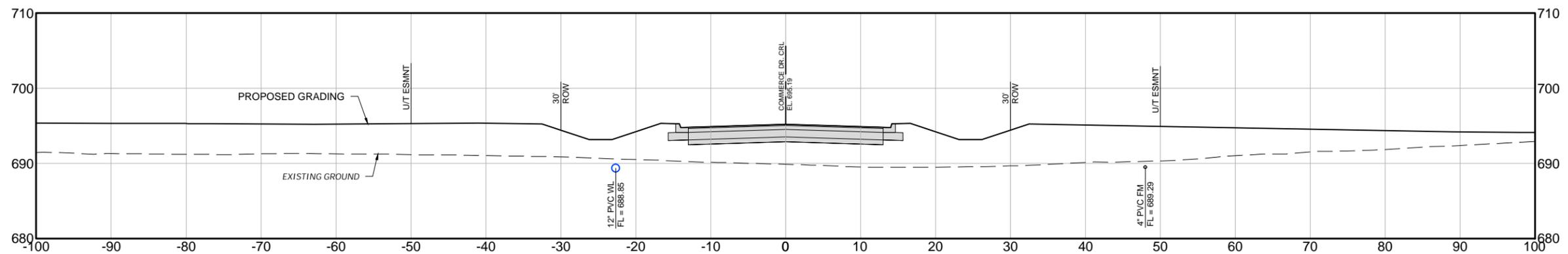
50+48.18



50+52.73



51+00.00



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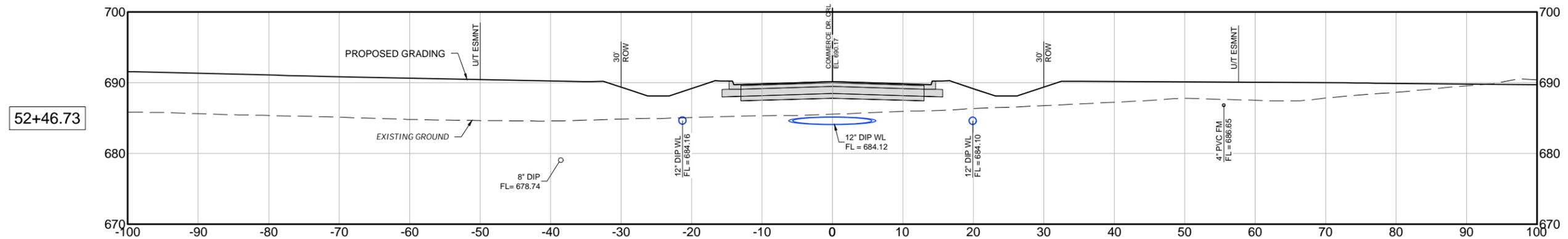
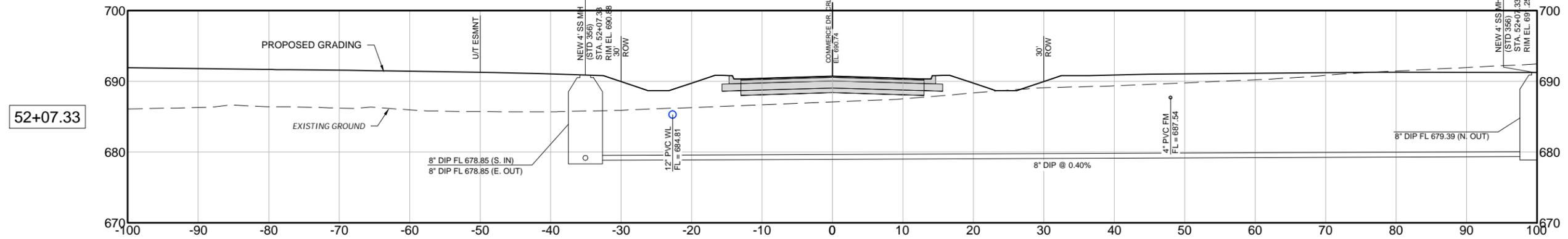
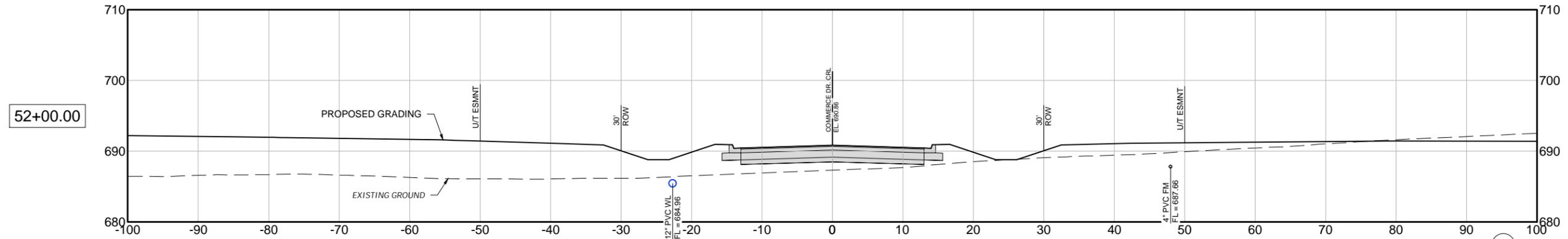
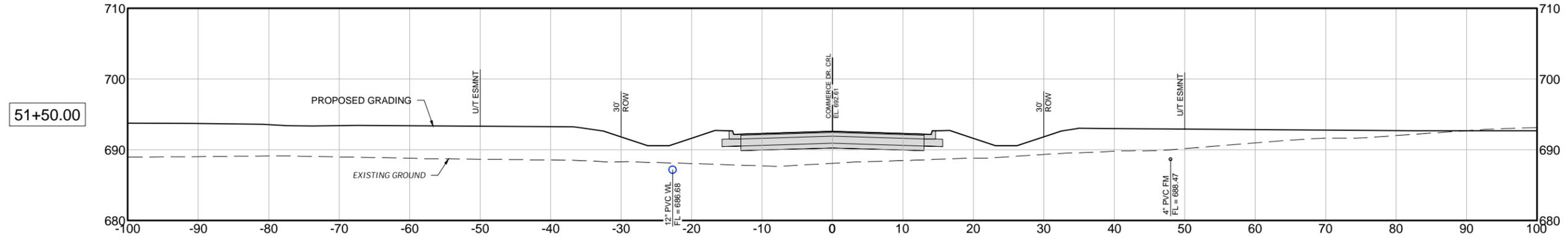
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 2 (ALT. 1)  
CROSS SECTION  
STA 50+00 TO  
STA 51+00**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE	JANUARY 9, 2026
SHEET:	104 OF 107
DRAWING:	X12

1/9/2026 10:23:04 AM



Plans and Estimates Prepared by:

 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911	BY	DATE
	REVISION	



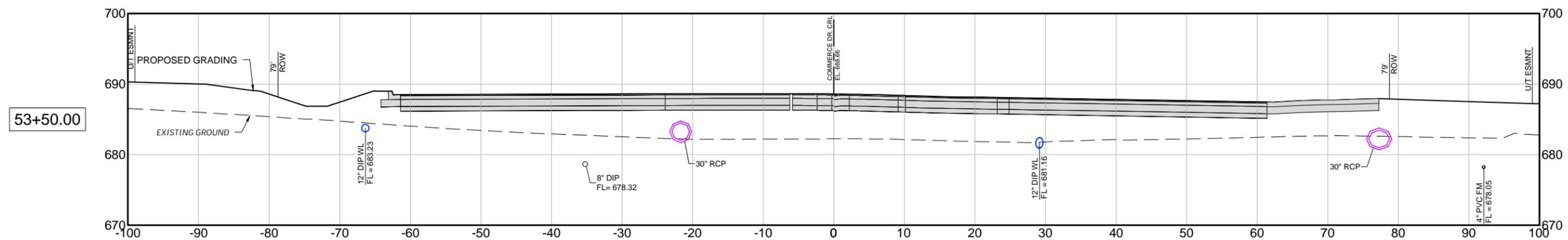
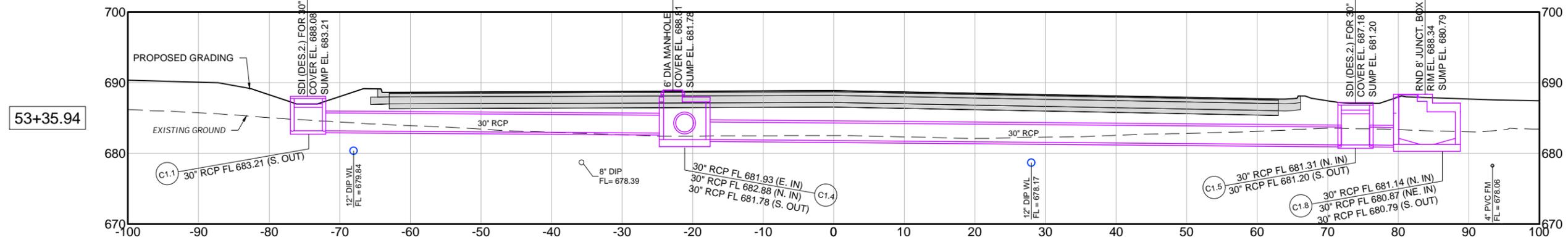
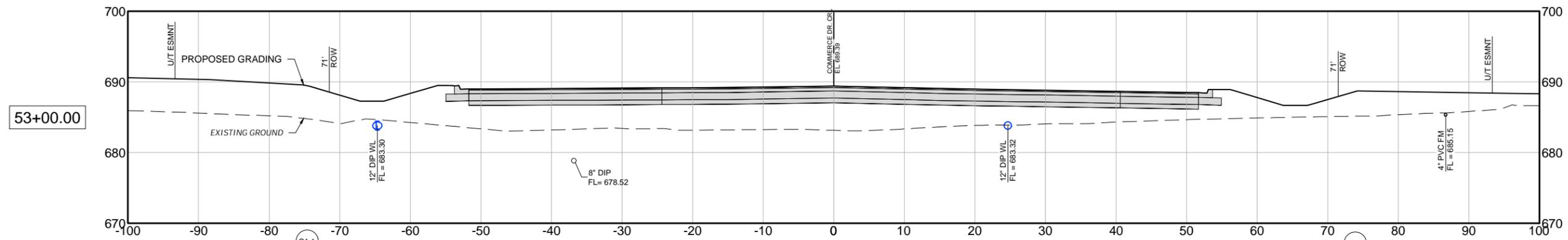
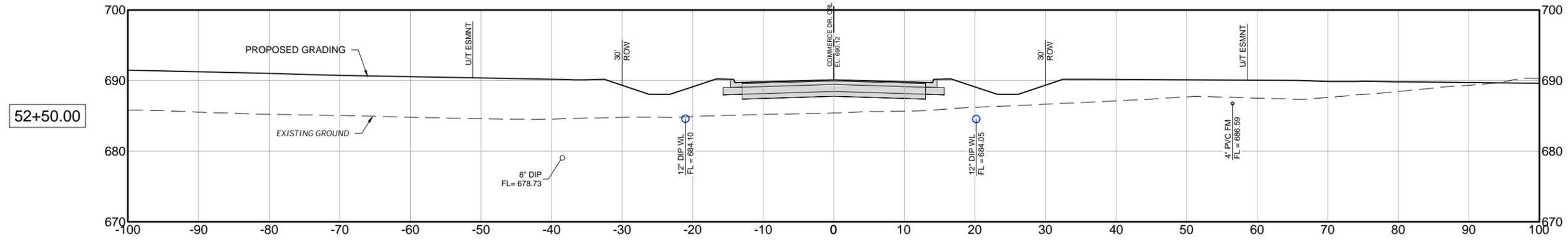
ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT. 1)  
CROSS SECTION  
STA 51+50 TO  
STA 52+46.73

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	105 OF 107
DRAWING:	X13

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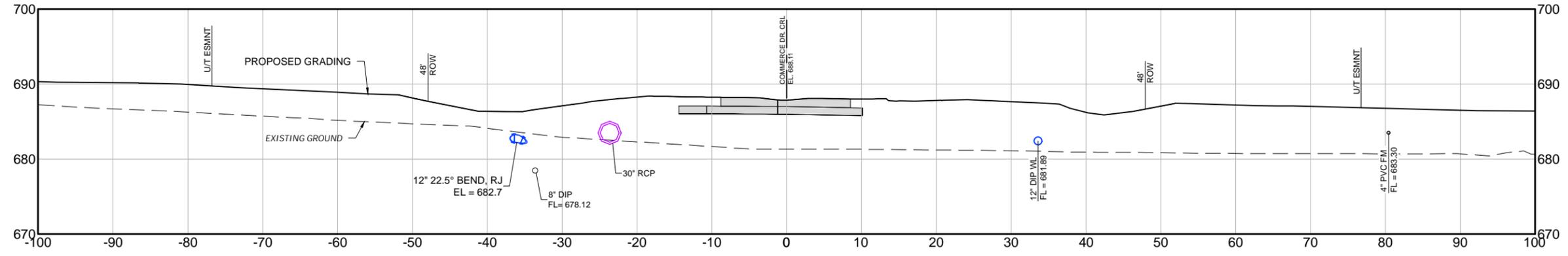
**ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT**

**SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA**

**PHASE 2 (ALT. 1)  
CROSS SECTION  
STA 52+50 TO  
STA 53+50**

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRJ, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	106 OF 107
DRAWING:	X14

54+00.00



Plans and Estimates Prepared by:

**KE** KEITHLINE ENGINEERING GROUP

8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911

REVISION	BY	DATE



ROUTE 66 INDUSTRIAL PARK  
PHASE 1 & 2 - SITE DEVELOPMENT

SAPULPA DEVELOPMENT AUTHORITY  
SAPULPA, OKLAHOMA

PHASE 2 (ALT. 1)  
CROSS SECTION  
STA. 54+00

PROJECT #	24.11
SURVEY	AJN (FLS) 12/2024
DESIGNED	DAK, JRU, MAW (KEG)
DRAWN	ZLM, AK, MAW (KEG)
ATLAS PAGE NO.	--
DATE:	JANUARY 9, 2026
SHEET:	107 OF 107
DRAWING:	X15