

SAPULPA DEVELOPMENT AUTHORITY (SDA)

ROUTE 66 INDUSTRIAL PARK PHASE 3 - ALTERNATE 02 SITE DEVELOPMENT & BOX CULVERT

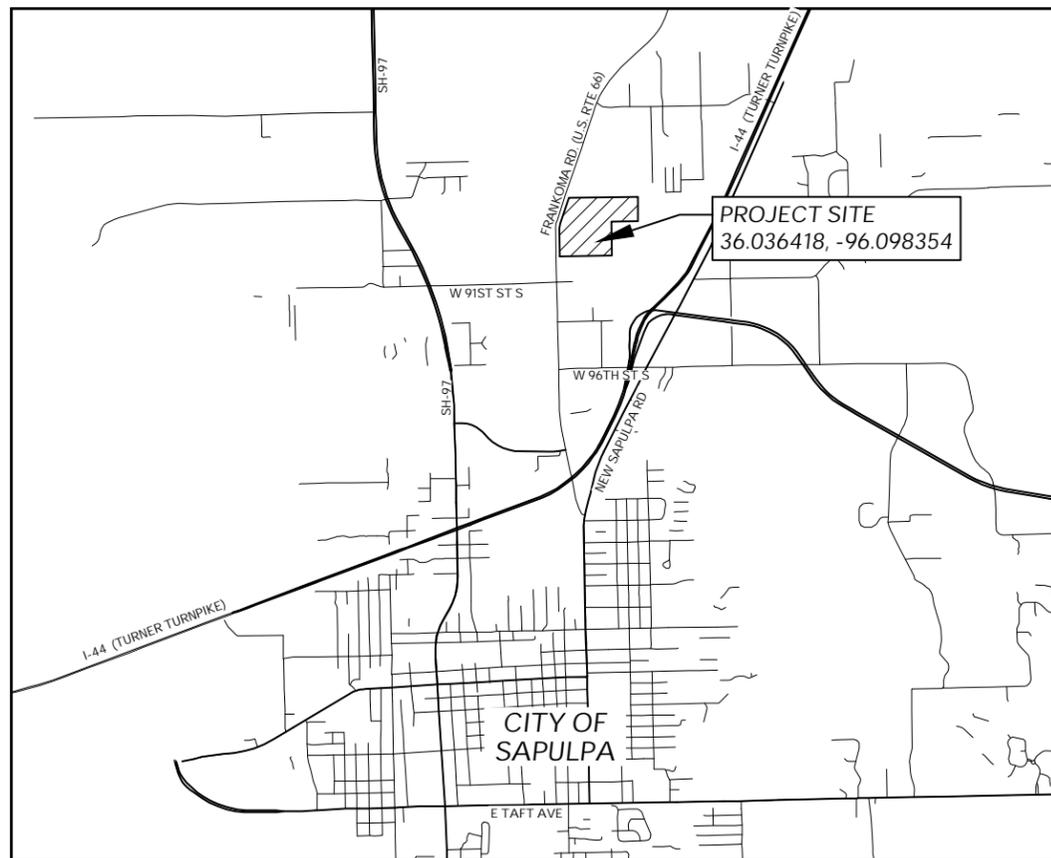
VOLUME 2 of 4



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 | | STORM GRATE |
| | SHRUB | | RIP-RAP |
| | DECIDUOUS TREE | | ASPHALT |
| | VEGETATIVE TREE | | CONCRETE |
| | POWER POLE | | GRAVEL |
| | GUY WIRE | | DIRT |
| | TELEPHONE UNDERGROUND MARKER | | UP UNDERGROUND PETROLEUM LINE |
| | TELEPHONE PEDESTAL | | UT UNDERGROUND TELEPHONE |
| | TELEPHONE MANHOLE | | SS UNDERGROUND SANITARY SEWER |
| | SIGN | | UG UNDERGROUND GAS |
| | 60D SPIKE | | UC UNDERGROUND CABLE |
| | MAIL BOX | | WTR UNDERGROUND WATER |
| | GAS METER | | STM UNDERGROUND STORM SEWER |
| | FIBER OPTIC PEDESTAL | | OHE OVERHEAD ELECTRIC |
| | TRAFFIC SIGNAL POLE | | X 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 EASEMENT |
| | BOLLARDS | | |
| | SANITARY SEWER MANHOLE | | |
| | GAS VALVE | | |
| | STORM SEWER MANHOLE | | |
| | FOUND MONUMENTS | | |
| | UTILITY MARKER | | |
| | VENT | | |
| | FIBER OPTICS | | |



| 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 | Anthony Wilkins | (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.

| GOVERNMENT SPECIFICATIONS: |
|--|
| 1) 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH GOVERN. |
| 2) CITY OF SAPULPA ENGINEERING DESIGN CRITERIA AND STANDARD SPECIFICATIONS, MARCH 18, 2018 |

BID PLANS JANUARY 9, 2026

INDEX OF DRAWINGS - VOLUME 2 - PHASE 3
THIS PLAN SET - SEE SHEET 02

INDEX OF DRAWINGS - VOLUME 1 - PHASE 1 & 2
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 PARTNERSHIP 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 COMPLIES 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



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| ODOT STANDARD DETAIL SHEETS | | | |
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| ROADWAY 2019 | | TRAFFIC CONTROL 2009 | |
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| TESCA-0 | (R-2) TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS | TCS2-1-00 | TRAFFIC CONTROL TABLES AND NOTES |
| ECTRM1-0 | (R-3) EROSION CONTROL / TURF REINFORCEMENT MAT INSTALLATION (1 OF 2) | TCS5-1-00 | TYPICAL SIGN INSTALLATION |
| ECTRM2-0 | (R-4) EROSION CONTROL / TURF REINFORCEMENT MAT INSTALLATION (2 OF 2) | TCS6-1-02 | CHANNELIZING DEVICES |
| IPD-0 | (R-5) INLET PROTECTION (AGGREGATE & REINFORCED SILT FENCE APPLICATIONS) | TCS7-1-02 | ADVANCED WARNING SIGNS |
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| TFL-0 | (R-8) TEMPORARY FIBER LOG APPLICATIONS | | |
| TRFD-0 | (R-9) TEMPORARY ROCK FILTER DAM APPLICATIONS | | |
| TSB-1 | (R-10) TEMPORARY SEDIMENT BASIN | | |
| SCE-0 | (R-11) STABILIZED CONSTRUCTION EXIT | | |
| SD-0 | (R-12) TEMPORARY SLOPE DRAIN | | |
| CWA-0 | (R-13) CONCRETE WASHOUT APPLICATIONS | | |
| SSS-2-1 | (R-14) SOLID SLAB SODDING | | |
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| PGPI-0 | (R-44) PRECAST GRATED PIPE DROP INLET | | |
| CI-2-3 | (R-45) CAST-IN-PLACE CURB INLETS | | |
| SSIF-5-1 | (R-46) STORM SEWER INLET FRAMES (CURB INLETS) | | |
| CIG-4-1 | (R-47) CAST IRON GRATES (CURB INLETS) | | |
| 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 |
| RCB-C3-20(2-8) | (B-562E) RCB CULVERTS - BARREL DETAILS TRIPLE |

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| 419 | MANHOLE OUTSIDE DROP CONNECTIONS |
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| | | |
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| Plans and Estimates Prepared By: | DATE | |
| | BY | |
| REVISION | DATE | |
| | BY | |



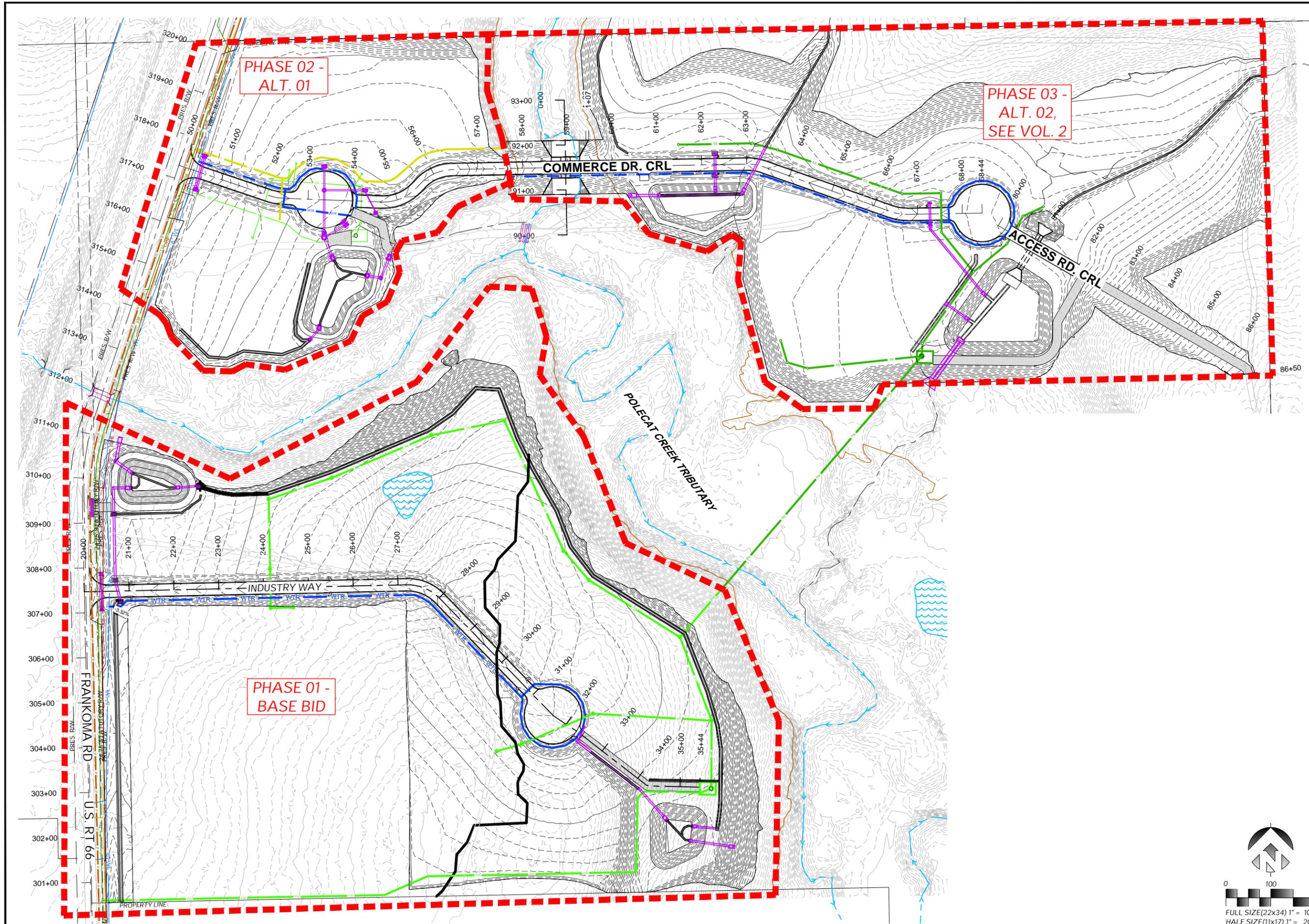
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

INDEX
OF
SHEETS

| | |
|----------------|---------------------|
| 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: | 02 OF 80 |
| 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 | |

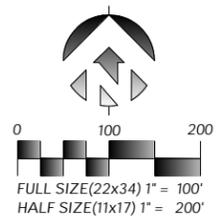


**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

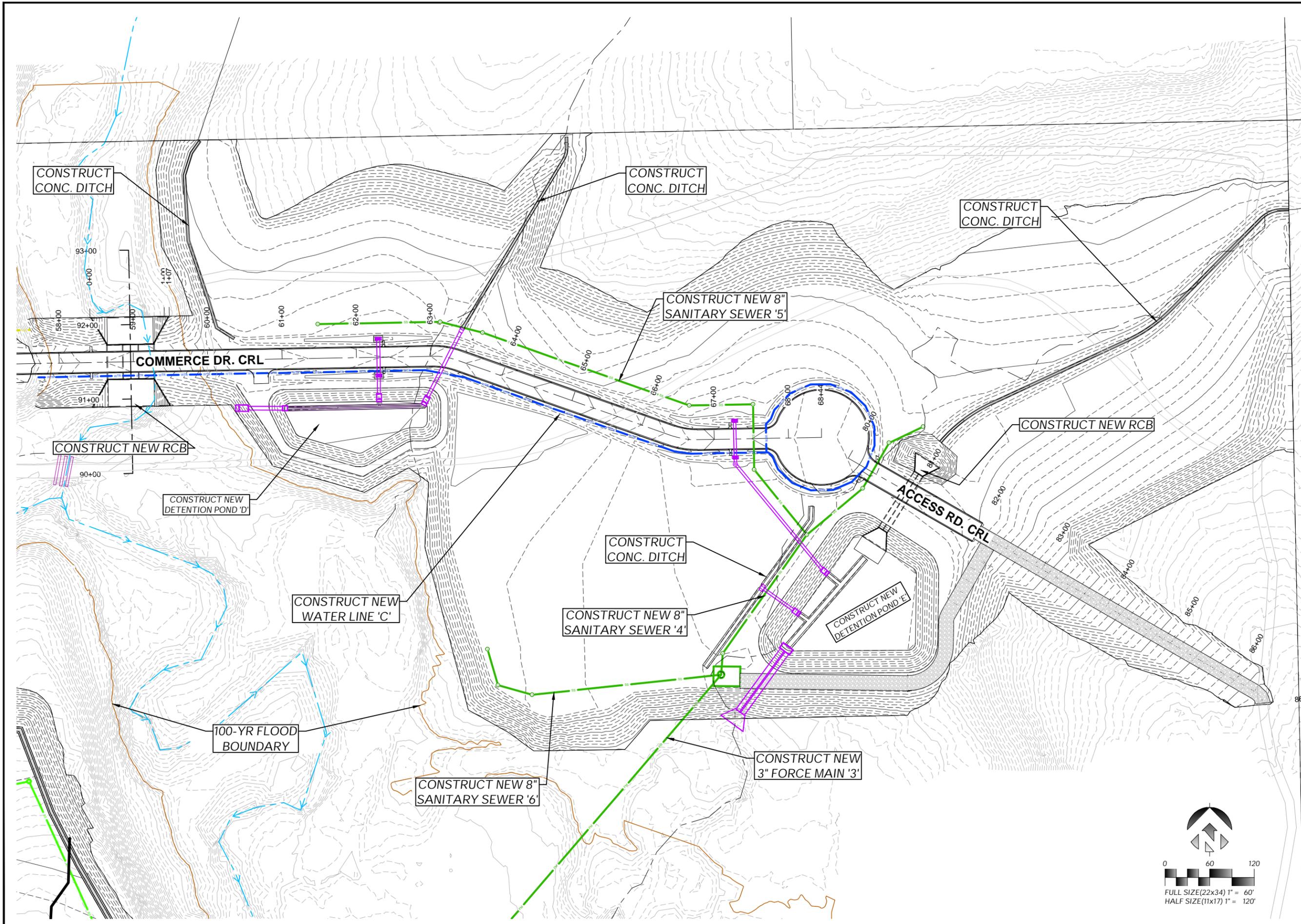
**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PROJECT OVERVIEW
(ALL PHASES)**

| | |
|----------------|---------------------|
| 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: | 03 OF 80 |
| 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 | |

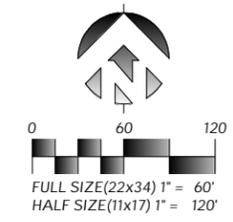


**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PROJECT OVERVIEW
PHASE 3 (ALT. 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: | 04 OF 80 |
| DRAWING: | G04 |



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ROADWAY PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|--|-------------|------|----------|
| 191 | -- | 201(A)1200 | CLEARING AND GRUBBING | 1 | LSUM | 1. |
| 192 | -- | 202(A)2200 | UNCLASSIFIED EXCAVATION (PHASE 1 CUT) | 2,3,4 | CY | 83,235. |
| 193 | -- | 202(D)2500 | UNCLASSIFIED BORROW (PHASE 1 FILL) | 3 | CY | 89,271. |
| 194 | -- | 205(A)6200 | TYPE A-SALVAGED TOPSOIL | 5 | LSUM | 1. |
| 195 | -- | 220 1100 | SWPPP DOCUMENTATION AND MANAGEMENT | 6 | LSUM | 1. |
| 196 | -- | 221(B)2300 | TEMPORARY SILT FENCE | 8 | LF | 3,000. |
| 197 | -- | 221(C)2410 | REINFORCED SILT FENCE | 8 | LF | 2,500. |
| 198 | -- | 221(F)2700 | TEMPORARY ROCK FILTER DAM TYPE 1 | 8 | CY | 20. |
| 199 | -- | 221(G)2800 | TEMPORARY FIBER LOG | 8 | LF | 3,000. |
| 200 | -- | 230(A)7200 | SOLID SLAB SODDING | 16 | SY | 24,156. |
| 201 | -- | 232(A)9200 | SEEDING METHOD A | 7 | AC | 13.12 |
| 202 | -- | 303(A)1200 | AGGREGATE BASE TYPE A | 9,10 | CY | 2,458. |
| 203 | -- | 310(B)5300 | SUBGRADE, METHOD B | 17,18 | SY | 7,346. |
| 204 | -- | 325 0100 | SEPARATOR FABRIC | 19 | SY | 10,876. |
| 205 | -- | 402(E)2600 | TRAFFIC BOUND SURFACE COURSE TYPE E | 11 | TON | 564. |
| 206 | -- | 407(B)7300 | TACK COAT | 13 | GAL | 713. |
| 207 | -- | 408 8100 | PRIME COAT | 12 | GAL | 1,483. |
| 208 | -- | 411(B)1330 | SUPERPAVE, TYPE S3(PG 64-22 OK) | 14 | TON | 1,995. |
| 209 | -- | 411(C)1430 | SUPERPAVE, TYPE S4(PG 64-22 OK) | 14 | TON | 665. |
| 210 | -- | 509(A)0210 | CLASS AA CONCRETE (RCB & END SECTIONS) | -- | CY | 1,134. |
| 211 | -- | 509(D)0500 | CLASS C CONCRETE (CURB OPENINGS & PAVED DITCH) | 20,21,22,24 | CY | 99. |
| 212 | -- | 511(A)2200 | REINFORCING STEEL | -- | LB | 167,861. |
| 213 | -- | 514(J)6100 | TEMPORARY SHEET PILING | -- | LSUM | 1. |
| 214 | -- | 601(A)1100 | TYPE I PLAIN RIPRAP | -- | TON | 2,321. |
| 215 | -- | 609(B)4330 | 1'-8" COMB.CR.B. & GUT.(6" BARRIER) | 22,23,25,26 | LF | 3,453. |
| 216 | -- | 610(A)5220 | 6" CONCRETE DRIVEWAY | 22,23,25,26 | SY | 51. |

STORM SEWER PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|---------------------------------------|-----------|------|--------|
| 217 | -- | 509(C)0400 | CLASS A CONCRETE, SMALL STRUCTURES | 15 | CY | 72.1 |
| 218 | -- | 611(A)7257 | PRECAST CONC RND 5' DIA MANHOLE | 30 | EA | 1. |
| 219 | -- | 611(B)7247 | ADD'L DEPTH PRECAST RND 5' MANHOLE | 31 | VF | 0.9 |
| 220 | -- | 611(G)7962 | INLET GPI TYPE 2 (DES. 9) | -- | EA | 2. |
| 221 | -- | 611(G)7966 | INLET GPI TYPE 2 (DES. 10) | -- | EA | 2. |
| 222 | -- | 611(H)0474 | ADD'L DEPTH IN INLET GPI TYPE 2 | -- | VF | 1.42 |
| 223 | -- | 613(V)8000 | TRENCH EXCAVATION | -- | CY | 2,119. |
| 224 | -- | 613(A)5224 | 36" R.C. PIPE CLASS III | 32,33 | LF | 282.69 |
| 225 | -- | 613(A)5228 | 42" R.C. PIPE CLASS III | 32,33 | LF | 98.27 |
| 226 | -- | 613(A)5236 | 54" R.C. PIPE CLASS III | 32,33 | LF | 47.39 |
| 227 | -- | 613(A)5244 | 66" R.C. PIPE CLASS III | 32,33 | LF | 204.12 |
| 228 | -- | 613(A)5412 | 29" X 45" R.C. PIPE ELL. CLASS HE-III | 32,33 | LF | 70.17 |
| 229 | -- | 613(S)7700 | STANDARD BEDDING MATERIAL, CLASS B | -- | CY | 307. |

WATERLINE PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|--|-----------------|------|------|
| 230 | 2301 | -- | EXCAVATION AND BACKFILL, UNCLASSIFIED | W1 | CY | 483. |
| 231 | 2304 | -- | 8" DUCTILE IRON PIPE RESTRAINED JOINT | W2,W3,W4,W9, | LF | 455. |
| 232 | 2306 | -- | 8" POLYVINYL CHLORIDE (PVC) PIPE | W2,W3,W4,W6,W9, | LF | 588. |
| 233 | 2306 | -- | 8" POLYVINYL CHLORIDE (PVC) PIPE, RESTRAINED | W2,W3,W4,W6,W9, | LF | 682. |
| 234 | 2306 | -- | 8" HDPE (DIRECTIONAL BORED) | -- | LF | 200. |
| 235 | 2314 | -- | 8" GATE VALVE | W5 | EA | 5. |
| 236 | 2314 | -- | 6" GATE VALVE | W5 | EA | 4. |
| 237 | 2314 | -- | 2" COMBO AIR RELEASE VALVE W/ CAN & LID | W3,W5 | EA | 2. |
| 238 | 2315 | -- | STANDARD VALVE BOX | W8 | EA | 9. |
| 239 | 2315 | -- | VALVE BOX EXTENSION | W8 | EA | 9. |
| 240 | 2314 | -- | FIRE HYDRANT AND ASSEMBLY (3-WAY)(RJ) | W3,W5 | EA | 4. |
| 241 | 2309 | -- | 8" PVD TO HDPE COUPLING | W3,W5 | EA | 2. |
| 242 | 2309 | -- | 8" X 8" X 6" TEE (RJ) | W3,W5 | EA | 4. |
| 243 | 2309 | -- | 8" X 8" X 8" TEE (RJ) | W3,W5 | EA | 1. |
| 244 | 2309 | -- | 8" 11 1/4 DEGREE FITTING (RJ) | W3,W5 | EA | 6. |
| 245 | 2309 | -- | 8" 22 1/2 DEGREE FITTING (RJ) | W3,W5 | EA | 22. |
| 246 | 2309 | -- | 8" 45 DEGREE FITTING (RJ) | W3,W5 | EA | 14. |
| 247 | 1107 | -- | HYDROSTATIC PRESSURE TESTING & DISINFECT | W9 | LSUM | 1. |

SANITARY SEWER PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|--|-----------|------|--------|
| 248 | 2301 | -- | EXCAVATION AND BACKFILL, UNCLASSIFIED | S3 | CY | 1,385. |
| 249 | 2304 | -- | 8" DUCTILE IRON PIPE | S4 | LF | 159. |
| 250 | 2310 | -- | 8" PVC SDR 35 | S4 | LF | 1,445. |
| 251 | 2311 | -- | PRECAST ROUND 4' DIA MANHOLE | -- | EA | 14. |
| 252 | 2311 | -- | ADD'L DEPTH PRECAST ROUND 4' MANHOLE | S5 | VF | 37.72 |
| 253 | 2312 | -- | IN-LINE TEE FOR FUTURE CONNECTION (8"x8"x6" TEE) | S2 | EA | -- |
| 254 | 2310 | -- | MANHOLE VACUUM TEST | S1 | LSUM | 1. |
| 255 | 2310 | -- | SEWER PIPE MANDREL TEST | -- | LSUM | 1. |

FORCE MAIN PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|--|-----------|------|------|
| 256 | 2301 | -- | EXCAVATION AND BACKFILL, UNCLASSIFIED | S3 | CY | 10. |
| 257 | 2304 | -- | 3" DUCTILE IRON PIPE, RESTRAINED | S4 | LF | -- |
| 258 | 2310 | -- | 3" POLYVINYL CHLORIDE (PVC) PIPE (CLASS 200 SDR21) | S4 | LF | 35. |
| 259 | 2310 | -- | 3" HDPE (DIRECTIONAL BORE) | 0 | LF | 792. |
| 260 | 2314 | -- | 3" CHECK VALVE | -- | EA | 1. |
| 261 | 2314 | -- | 3" RESILIENT WEDGE GATE VALVE | -- | EA | 1. |
| 262 | 2314 | -- | 2" COMBO AIR RELEASE VALVE W/ CAN & LID | -- | EA | -- |
| 263 | 2315 | -- | STANDARD VALVE BOX | -- | EA | 2. |
| 264 | 2315 | -- | VALVE BOX EXTENSION | -- | EA | 2. |
| 265 | 2309 | -- | 3" HDPE TO PVC COUPLING | -- | EA | 2. |
| 266 | 2309 | -- | 3" 45 DEGREE BEND | -- | EA | -- |
| 267 | 2309 | -- | 3" 22 1/2 DEGREE BEND | -- | EA | -- |
| 268 | 2309 | -- | 3" 11.25 DEGREE BEND | -- | EA | 2. |
| 269 | 1107 | -- | FORCEMAIN HYDROSTATIC PRESSURE TEST | -- | LSUM | 1. |
| 270 | -- | 624(E)3641 | FENCE-STYLE CLF (8'HIGH, CLASS B) | -- | LF | 76. |
| 271 | -- | 624(F)3778 | GATES-STYLE CLF (8'HIGH X 8'LONG) | -- | EA | 2. |
| 272 | -- | SPEC | DUPLEX PACKAGE LIFT STATION, COMPLETE IN PLACE | -- | LSUM | 1. |
| 273 | -- | SPEC | ON-SITE ELECTRICAL AND COMMUNICATIONS INSTALLATION | -- | LSUM | 1. |
| 274 | -- | SPEC | WET-WELL, COMPLETE IN PLACE | -- | LSUM | 1. |
| 275 | -- | SPEC | DIESEL GENERATOR, FUEL TANK, ENCLOSURE AND CONC. PAD | -- | LSUM | 1. |
| 276 | -- | SPEC | SCADA ANTENNA | -- | LSUM | 1. |
| 277 | -- | SPEC | INSTALL CONCRETE WET WELL INTERIOR EPOXY COATING | -- | LSUM | 1. |

CONSTRUCTION PAY QUANTITIES (PHASE 3, ALT 2)

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|-------------------------------|-----------|------|-----|
| 278 | -- | 641 2110 | MOBILIZATION | 27 | LSUM | 1. |
| 279 | -- | 642(B)3300 | CONSTRUCTION STAKING LEVEL II | 28,29 | LSUM | 1. |
| 280 | -- | 880(J)7110 | CONSTRUCTION TRAFFIC CONTROL | 34 | LSUM | 1. |

**PHASE 3 ADDITIVE ALTERNATE 7
CONCRETE PAVEMENT INSTEAD OF ASPHALT PAVEMENT**

| ITEM NO. | SAPULPA SPEC. NO. | ODOT SPEC. NO. | DESCRIPTION | PAY NOTES | UNIT | QTY |
|----------|-------------------|----------------|--|-----------|------|---------|
| 301 | -- | 414(B)5300 | DOWEL JOINTED P.C.C.PAVT.(PLACEMENT) | 35 | SY | 6,576. |
| 302 | -- | 414(G)5800 | P.C. CONCRETE FOR PAVEMENT | 35 | CY | 1,469. |
| 303 | -- | 609(A)4230 | CONC.CURB(6" BARRIER-INTEGRAL) | 35 | LF | 3,453. |
| 304 | -- | -- | DEDUCT 3" OF AGGREGATE BASE TYPE A | -- | CY | -808. |
| 305 | -- | -- | DEDUCT ALL TACK COAT | -- | TON | -713. |
| 306 | -- | -- | DEDUCT ALL PRIME COAT | -- | TON | -1,483. |
| 307 | -- | -- | DEDUCT ALL SUPERPAVE, TYPE S3(PG 64-22 OK) | -- | TON | -1,995. |
| 308 | -- | -- | DEDUCT ALL SUPERPAVE, TYPE S4(PG 64-22 OK) | -- | TON | -665. |
| 309 | -- | -- | DEDUCT ALL 1'-8" COMB CURB & GUTTER | -- | LF | -3,453. |



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



**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

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: | 05 OF 80 |
| DRAWING: | G05 |

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 TO VERIFY ANY ADDITIONAL QUANTITIES.
5. AN ESTIMATED QUANTITY OF 12,100 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" 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 98% AASHTO T180 MODIFIED PROCTOR.
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 NET 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. 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.

WATERLINE PAY NOTES

- W1 CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½ -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.

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".



Plans and Estimates Prepared by:

| | | | |
|---|-----------------------------|----------|--|
| KE 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 | KEITHLINE ENGINEERING GROUP | DATE | |
| | | BY | |
| | | REVISION | |



ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PAY 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: | 06 OF 80 |
| DRAWING: | G06 |

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. REINFORCING STEEL60,000 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 ____ CALENDAR DAYS TO COMPLETE THE PHASE 1 WORK IN THE PROJECT. THE CONTRACTOR WILL HAVE ____ CALENDAR DAYS TO COMPLETE THE PHASE 2 WORK IN THE PROJECT. LIQUIDATED DAMAGES OF \$ ____ 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. 2. 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.

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.
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.

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 INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND 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 LOW 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 LATE 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.



Plans and Estimates Prepared by:

| | | | | | |
|----|-----------------------------|----------|--|------|--|
| KE | KEITHLINE ENGINEERING GROUP | BY | | DATE | |
| | | REVISION | | | |

8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7971



ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

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: | 07 OF 80 |
| DRAWING: | G07 |

1/9/2026 9:45:43 AM

| SUMMARY OF SANITARY SEWER MANHOLES (PHASE 3, ALT 2) | | | | | | | | | |
|---|----------|-----------|--|--------------|--------------------------|-----------------------|---------------------------------|-------------|--|
| DRAWING NO. | STATION | STR. I.D. | DESCRIPTION | ELEVATION | | PRECAST ROUND MANHOLE | | | |
| | | | | TOP OF COVER | PIPE FLOWLIN @ MH CENTER | 4' DIA MANHOLE | ADDITIONAL DEPTH 4' DIA MANHOLE | TOTAL DEPTH | |
| | | | | ELEV. | ELEV. | EA | VF | VF | |
| S01 | 10+00.00 | 4.1 | PRECAST ROUND 8' DIA WET WELL | | | | | | |
| S01 | 10+28.61 | 4-2 | PRECAST ROUND 4' DIA MH | 686.99 | 673.57 | 1. | 7.42 | 13.42 | |
| S01 | 12+24.09 | 4-3 | PRECAST ROUND 4' DIA MH w/ OUTSIDE DROP CONNECITON | 686.82 | 674.35 | 1. | 6.47 | 12.47 | |
| S01 | 13+21.78 | 4-4 | PRECAST ROUND 4' DIA MH | 687.35 | 681.49 | 1. | -- | 5.86 | |
| S01 | 13+92.43 | 4-5 | PRECAST ROUND 4' DIA MH | 688.03 | 681.78 | 1. | 0.25 | 6.25 | |
| S01 | 14+43.21 | 4-6 | PRECAST ROUND 4' DIA MH | 688.28 | 682.03 | 1. | 0.25 | 6.25 | |
| S02 | 21+12.77 | 5-1 | PRECAST ROUND 4' DIA MH | 685.27 | 676.87 | 1. | 2.4 | 8.4 | |
| S02 | 22+00.34 | 5-2 | PRECAST ROUND 4' DIA MH | 685.72 | 677.22 | 1. | 2.5 | 8.5 | |
| S02 | 22+86.08 | 5-3 | PRECAST ROUND 4' DIA MH | 686.66 | 678.37 | 1. | 2.29 | 8.29 | |
| S03 | 25+80.71 | 5-4 | PRECAST ROUND 4' DIA MH | 688.53 | 679.55 | 1. | 2.98 | 8.98 | |
| S03 | 26+37.74 | 5-5 | PRECAST ROUND 4' DIA MH | 688.24 | 679.79 | 1. | 2.45 | 8.45 | |
| S03 | 28+04.37 | 5-6 | PRECAST ROUND 4' DIA MH | 687.26 | 680.45 | 1. | 0.81 | 6.81 | |
| S04 | 32+55.85 | 6-1 | PRECAST ROUND 4' DIA MH | 688.89 | 679.77 | 1. | 3.12 | 9.12 | |
| S04 | 33+03.47 | 6-2 | PRECAST ROUND 4' DIA MH | 689.44 | 679.96 | 1. | 3.48 | 9.48 | |
| S04 | 33+53.94 | 6-3 | PRECAST ROUND 4' DIA MH | 689.47 | 680.17 | 1. | 3.3 | 9.3 | |
| TOTALS | | | | | | 14. | 37.72 | 121.58 | |

| SUMMARY OF SANITARY SEWER PIPE (PHASE 3, ALT 2) | | | | | | | | | | |
|---|----------------|------------|----|----------|--------|--------|--------|---------------------------------|------------------|-----------------------|
| DRAWING NO. | ALIGNMENT NAME | STATIONING | | | | 8" PVC | | IN-LINE TEE (FUTURE CONNECTION) | BEDDING MATERIAL | EXCAVATION & BACKFILL |
| | | | | | | 8" DIP | 8" DIP | | | |
| | | | | | | LF | LF | | | |
| S01 | SS '4' | 10+00.00 | TO | 10+28.61 | 28.61 | -- | -- | 4. | 26.5 | |
| S01 | SS '4' | 10+28.61 | TO | 12+24.09 | 195.48 | -- | -- | 27.7 | 181. | |
| S01 | SS '4' | 12+24.09 | TO | 13+21.78 | 97.69 | -- | -- | 13.8 | 63.3 | |
| S01 | SS '4' | 13+21.78 | TO | 13+92.43 | -- | 70.65 | -- | 10. | 39.3 | |
| S01 | SS '4' | 13+92.43 | TO | 14+43.21 | 50.78 | -- | -- | 7.2 | 28.2 | |
| S02 | SS '5' | 20+00.00 | TO | 21+12.77 | 112.77 | -- | -- | 16. | 104.4 | |
| S02 | SS '5' | 21+12.77 | TO | 22+00.34 | -- | 87.57 | -- | 12.4 | 73. | |
| S02 | SS '5' | 22+00.34 | TO | 22+86.08 | 85.74 | -- | -- | 12.1 | 71.4 | |
| S03 | SS '5' | 22+86.08 | TO | 25+80.71 | 294.63 | -- | -- | 41.7 | 272.8 | |
| S03 | SS '5' | 25+80.71 | TO | 26+37.74 | 57.03 | -- | -- | 8.1 | 52.8 | |
| S03 | SS '5' | 26+37.74 | TO | 28+04.37 | 166.63 | -- | -- | 23.6 | 154.3 | |
| S04 | SS '6' | 30+00.00 | TO | 32+55.85 | 255.85 | -- | -- | 36.2 | 236.9 | |
| S04 | SS '6' | 32+55.85 | TO | 33+03.47 | 47.62 | -- | -- | 6.7 | 39.7 | |
| S04 | SS '6' | 33+03.47 | TO | 33+53.94 | 50.47 | -- | -- | 7.1 | 42.1 | |
| TOTALS | | | | | | 1,445. | 159. | -- | 227. | 1,385. |

| SUMMARY OF WATERLINE (PHASE 3, ALT 2) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------------|------------|----|----------|----|----------------------|---------------|---------------|---------------------|-----------------------|------------------------|-------------------|-------------------|-------------------------------|--------------------|-----------|---------------------|------------------------|--------|-------------------|----------------------------|------------------|-----------------------|------|------|
| DRAWING NO. | ALIGNMENT NAME | STATIONING | | | | FITTINGS | | | | | | VALVES | | | | | | PIPE | | | | | | | |
| | | | | | | PVC TO HDPE COUPLING | 8"x8" TEE, RJ | 8"x8" TEE, RJ | 8" 45 DEG. BEND, RJ | 8" 22.5 DEG. BEND, RJ | 8" 11.25 DEG. BEND, RJ | 8" GATE VALVE, RJ | 6" GATE VALVE, RJ | 2" AIR RELEASE VALVE ASSEMBLY | 3-WAY FIRE HYDRANT | VALVE BOX | VALVE BOX EXTENSION | 8" HDPE DIRECTION BORE | 8" PVC | 8" PVC RESTRAINED | 8" DUCTILE IRON RESTRAINED | BEDDING MATERIAL | EXCAVATION & BACKFILL | | |
| | | | | | | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | |
| W01 | WL 'C' | 10+00.00 | TO | 11+00.00 | -- | -- | -- | -- | 1. | -- | -- | -- | 1. | -- | -- | -- | 1. | 1. | -- | 57. | 43. | -- | 14.1 | 26.4 | |
| W01 | WL 'C' | 11+00.00 | TO | 12+00.00 | -- | -- | -- | -- | 2. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | 14.1 | 46.3 | |
| W01 | WL 'C' | 12+00.00 | TO | 13+00.00 | -- | -- | -- | -- | 1. | -- | -- | -- | 1. | -- | -- | -- | -- | -- | -- | 34. | 66. | -- | 14.1 | 15.7 | |
| W01 | WL 'C' | 13+00.00 | TO | 14+00.00 | -- | -- | 1. | -- | -- | -- | 1. | 1. | -- | 1. | 2. | 2. | -- | -- | -- | 61. | 39. | -- | 14.1 | 28.2 | |
| W01 | WL 'C' | 14+00.00 | TO | 15+00.00 | 1. | -- | -- | -- | 1. | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | -- | -- | -- | -- | |
| W02 | WL 'C' | 15+00.00 | TO | 16+00.00 | 1. | -- | -- | -- | 1. | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | -- | -- | -- | -- | |
| W02 | WL 'C' | 16+00.00 | TO | 17+00.00 | -- | -- | 1. | -- | -- | 1. | 1. | 1. | -- | 1. | 2. | 2. | -- | -- | -- | 26. | 74. | -- | 14.1 | 12. | |
| W02 | WL 'C' | 17+00.00 | TO | 18+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 94. | 6. | -- | 14.1 | 43.5 | |
| W02 | WL 'C' | 18+00.00 | TO | 19+00.00 | -- | -- | -- | 5. | -- | 1. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | 14.1 | -- | |
| W02 | WL 'C' | 19+00.00 | TO | 20+00.00 | -- | -- | -- | 3. | -- | 1. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | 14.1 | -- | |
| W03 | WL 'C' | 20+00.00 | TO | 21+00.00 | -- | -- | 1. | -- | -- | 1. | 1. | 1. | 1. | 1. | 2. | 2. | -- | -- | -- | 38. | 62. | -- | 14.1 | 17.6 | |
| W03 | WL 'C' | 21+00.00 | TO | 22+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 88. | 12. | -- | 14.1 | 40.7 |
| W03 | WL 'C' | 22+00.00 | TO | 23+00.00 | -- | -- | -- | -- | -- | 2. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 90. | 10. | -- | 14.1 | 41.7 |
| W03 | WL 'C' | 23+00.00 | TO | 24+00.00 | -- | 1. | 1. | 5. | 2. | -- | 1. | 1. | -- | 1. | 2. | 2. | -- | -- | -- | -- | 70. | 30. | 14.1 | 13.9 | |
| W03 | WL 'C' | 24+00.00 | TO | 25+00.00 | -- | -- | -- | -- | 3. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | 100. | 28.3 | 46.3 | |
| W04 | WL 'C' | 25+00.00 | TO | 26+00.00 | -- | -- | -- | -- | 4. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | 14.1 | 46.3 | |
| W04 | WL 'C' | 26+00.00 | TO | 27+00.00 | -- | -- | -- | -- | 3. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | 14.1 | 46.3 | |
| W04 | WL 'C' | 27+00.00 | TO | 28+00.00 | -- | -- | -- | 1. | 4. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | 14.1 | 46.3 | |
| W04 | WL 'C' | 28+00.00 | TO | 28+25.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25. | 3.5 | 11.6 | |
| TOTALS | | | | | | 2. | 1. | 4. | 14. | 22. | 6. | 5. | 4. | 2. | 4. | 9. | 9. | 200. | 588. | 682. | 455. | 242. | 483. | | |

| SUMMARY OF FORCE MAIN (PHASE 3, ALT 2) | | | | | | | | | | | | | | | | | | | |
|--|----------------|------------|----|----------|----|----------------------|---------------------|-----------------------|------------------------|--------------------|-------------------|---|-----------|---------------------|---------------|--------------------------|----------------------------|------------------|-----------------------|
| SHEET NO. | ALIGNMENT NAME | STATIONING | | | | FITTINGS | | | | VALVES | | | | | PIPE | | | | |
| | | | | | | PVC TO HDPE COUPLING | 4" 45 DEG. BEND, RJ | 4" 22.5 DEG. BEND, RJ | 4" 11.25 DEG. BEND, RJ | 4" CHECK VALVE, RJ | 4" GATE VALVE, RJ | 2" COMBO AIR RELEASE VALVE W/ CAN & LID | VALVE BOX | VALVE BOX EXTENSION | 4" PVC SDR 35 | 4" HDPE (DIRECTION BORE) | RESTRAINED 4" DUCTILE IRON | BEDDING MATERIAL | EXCAVATION & BACKFILL |
| | | | | | | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA |
| S06 | FM '1' | 40+00.00 | TO | 41+00.00 | 1. | -- | -- | 1. | 1. | 1. | -- | 2. | 2. | 11. | 90. | -- | 1.1 | 3.3 | |
| S06 | FM '1' | 41+00.00 | TO | 42+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S06 | FM '1' | 42+00.00 | TO | 43+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S06 | FM '1' | 43+00.00 | TO | 44+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S06 | FM '1' | 44+00.00 | TO | 45+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S07 | FM '1' | 45+00.00 | TO | 46+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S07 | FM '1' | 46+00.00 | TO | 47+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S07 | FM '1' | 47+00.00 | TO | 48+00.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 100. | -- | -- | -- | |
| S07 | FM '1' | 48+00.00 | TO | 48+25.97 | 1. | -- | -- | 1. | -- | -- | -- | -- | -- | 24. | 2. | -- | 2.3 | 7.1 | |
| TOTALS | | | | | 2. | -- | -- | 2. | 1. | 1. | -- | 2. | 2. | 35. | 792. | -- | 3. | 10. | |



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 BY: _____
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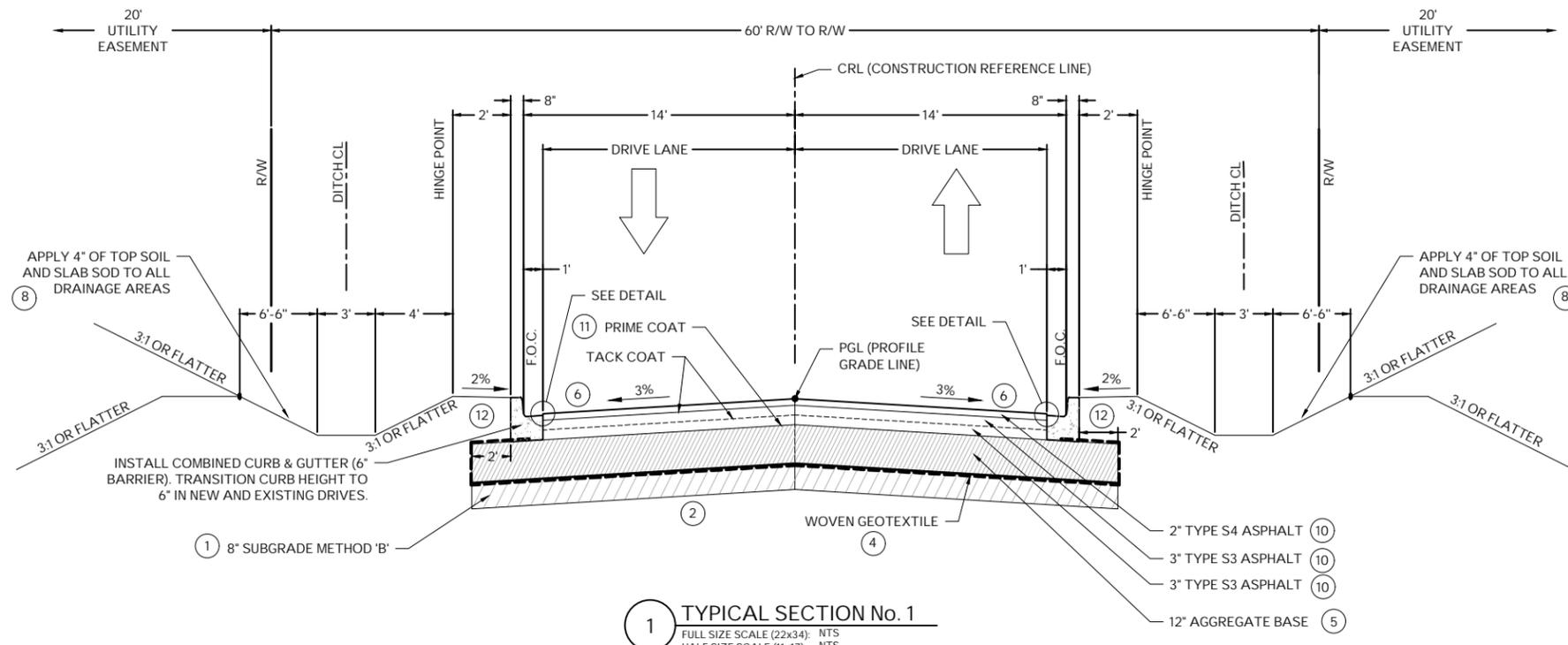


**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**
**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

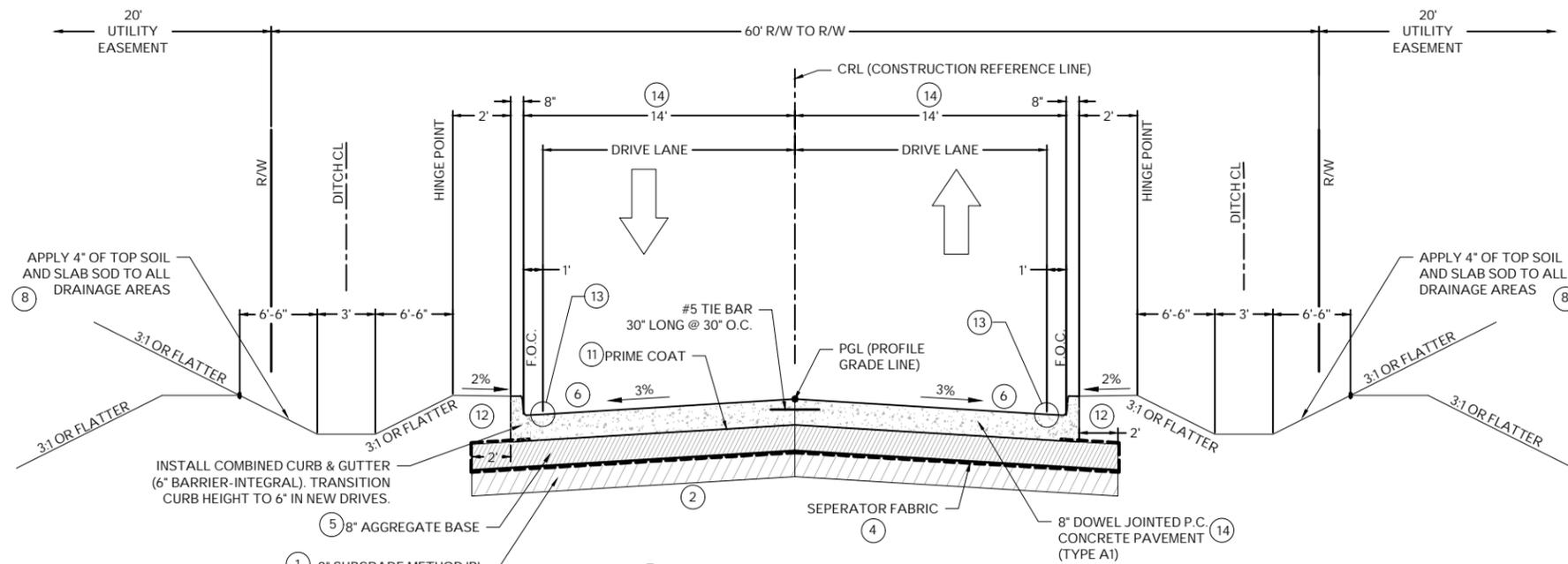
**SUMMARIES
 (2 OF 2)**

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: 09 OF 80
 DRAWING: G09

1/9/2026 9:45:45 AM



1 TYPICAL SECTION No. 1
 FULL SIZE SCALE (22x34): NTS
 HALF SIZE SCALE (11x17): NTS
 PHASE '3' (ADD. ALT. 2) - COMMERCE DR. - STA. 54+00 TO 68+44
 PHASE '3' (ADD. ALT. 2) - SIDE ROAD - STA. 80+00 TO 82+00



2 TYPICAL SECTION No. 2
 FULL SIZE SCALE (22x34): NTS
 HALF SIZE SCALE (11x17): NTS
 PHASE '3' (ADD. ALT. 7) - COMMERCE DR. - STA. 54+00 TO 68+44
 PHASE '3' (ADD. ALT. 7) - SIDE ROAD - STA. 80+00 TO 82+00

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

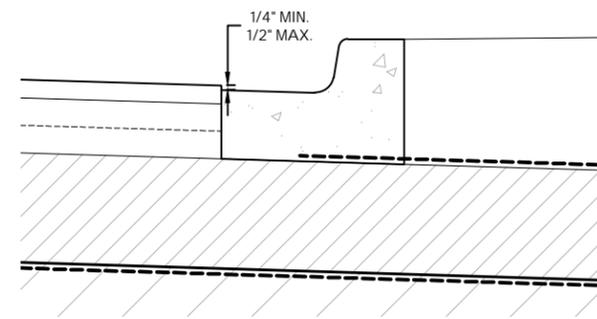
Intersection of cut and fill slopes with the ground line are to be rounded as a part of the finish operations. Rounding shall be 5' minimum for smaller cuts and fills, to 15' maximum for larger cuts and fills or as designated by the Engineer. Cost of rounding to be included in the price bid for other 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 94% 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 98% 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 70-28 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.



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



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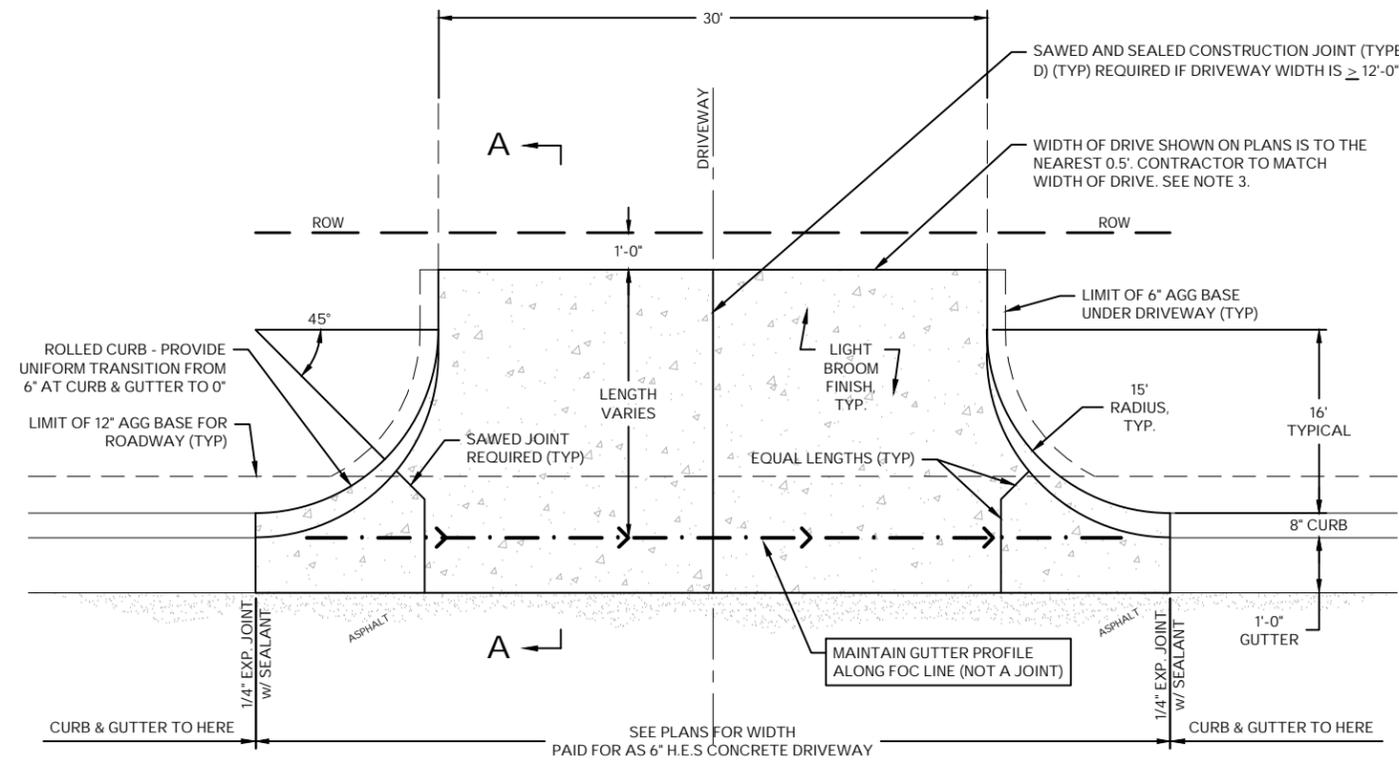
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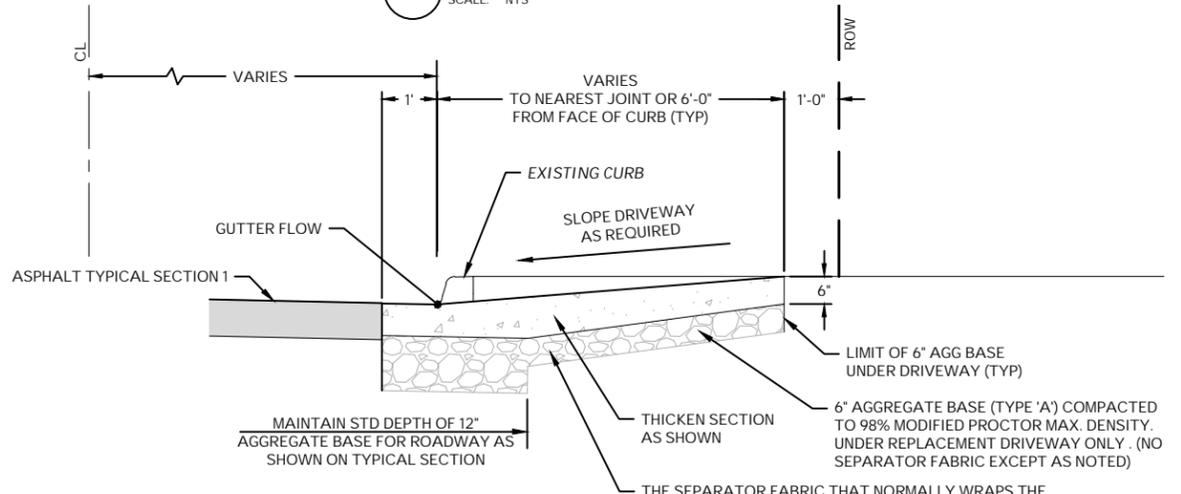
**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**
**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

TYPICAL SECTIONS

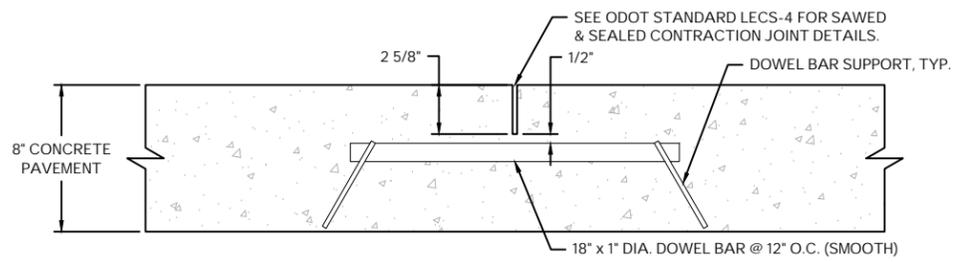
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| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
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| DATE | JANUARY 9, 2026 |
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| DRAWING: | R01 |



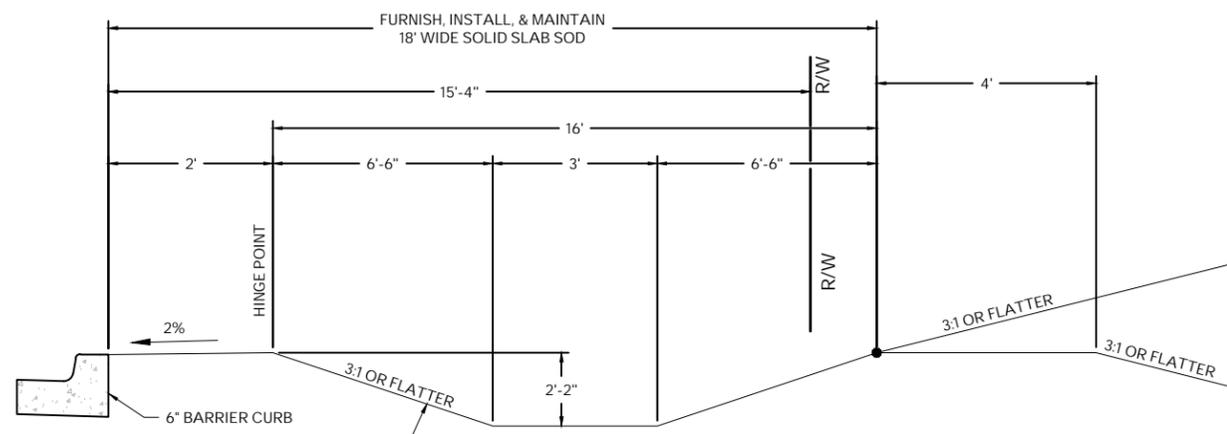
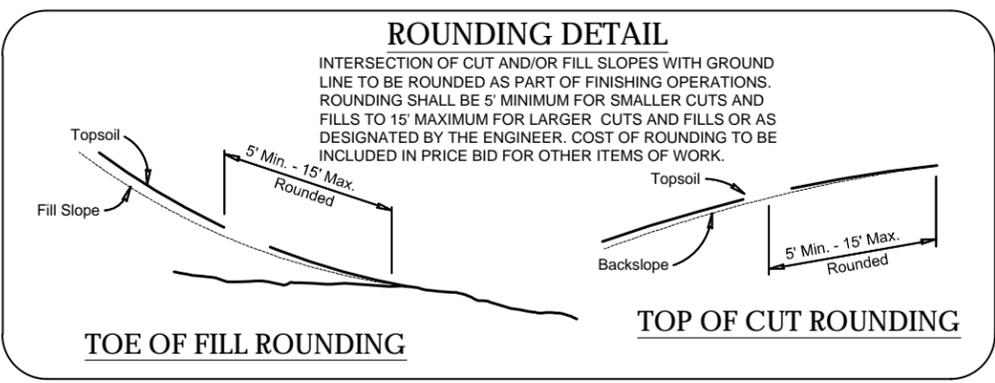
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SCALE: NTS



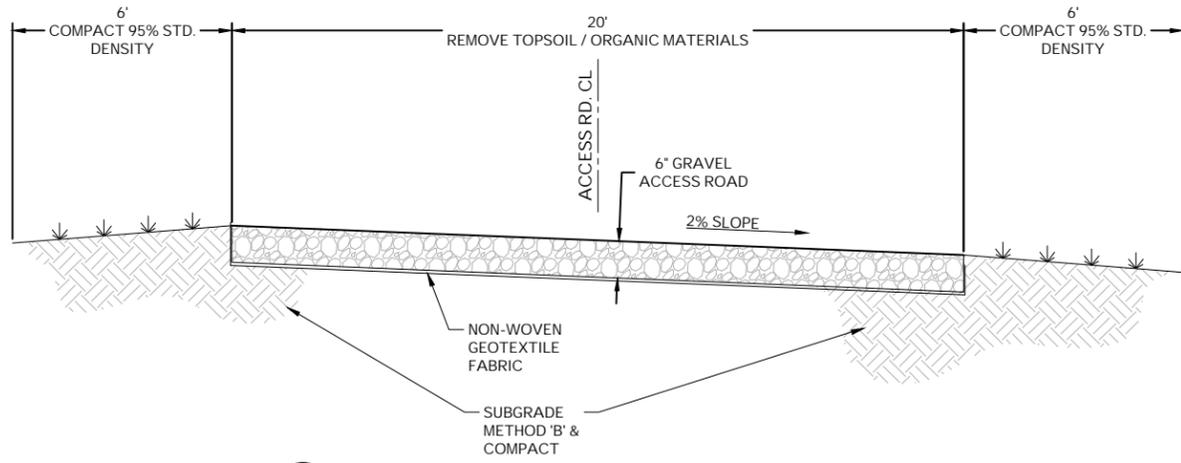
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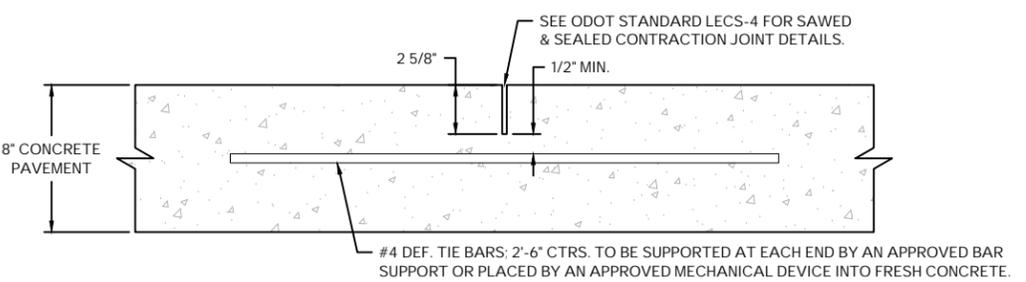
5 TRANSVERSE DOWELED CONTRACTION JOINT
SCALE: NTS



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



4 PHASE 3 - ACCESS RD. TYPICAL SECTION
FULL SIZE SCALE (22x34): NTS
HALF SIZE SCALE (11x17): NTS
PHASE '3' - ACCESS RD. - STA. 82+00 TO 86+50



6 LONGITUDINAL TIE JOINT
SCALE: NTS



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ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

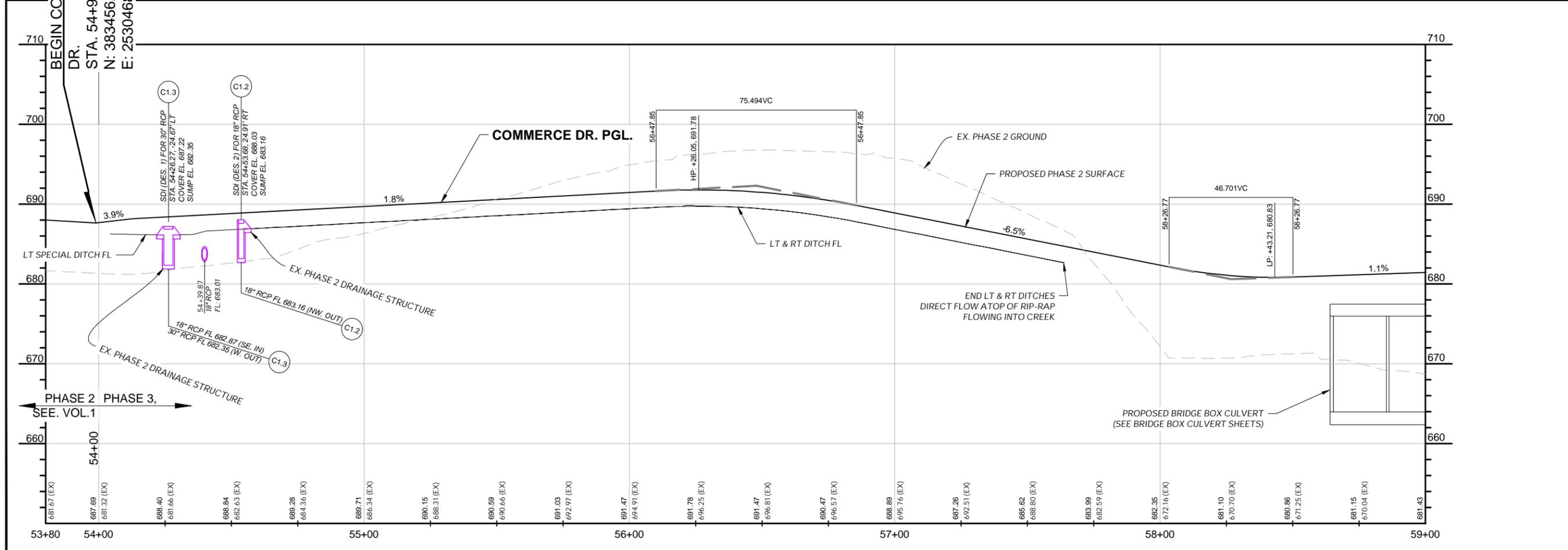
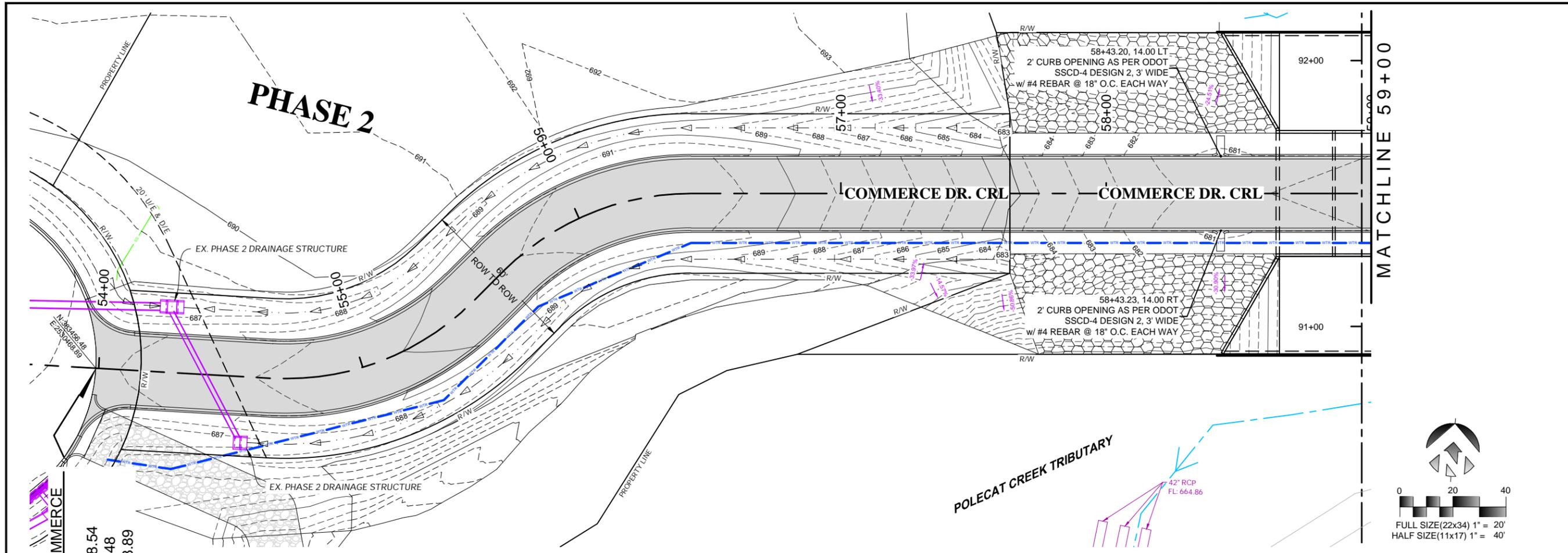
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PAVEMENT &
DITCH DETAILS

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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
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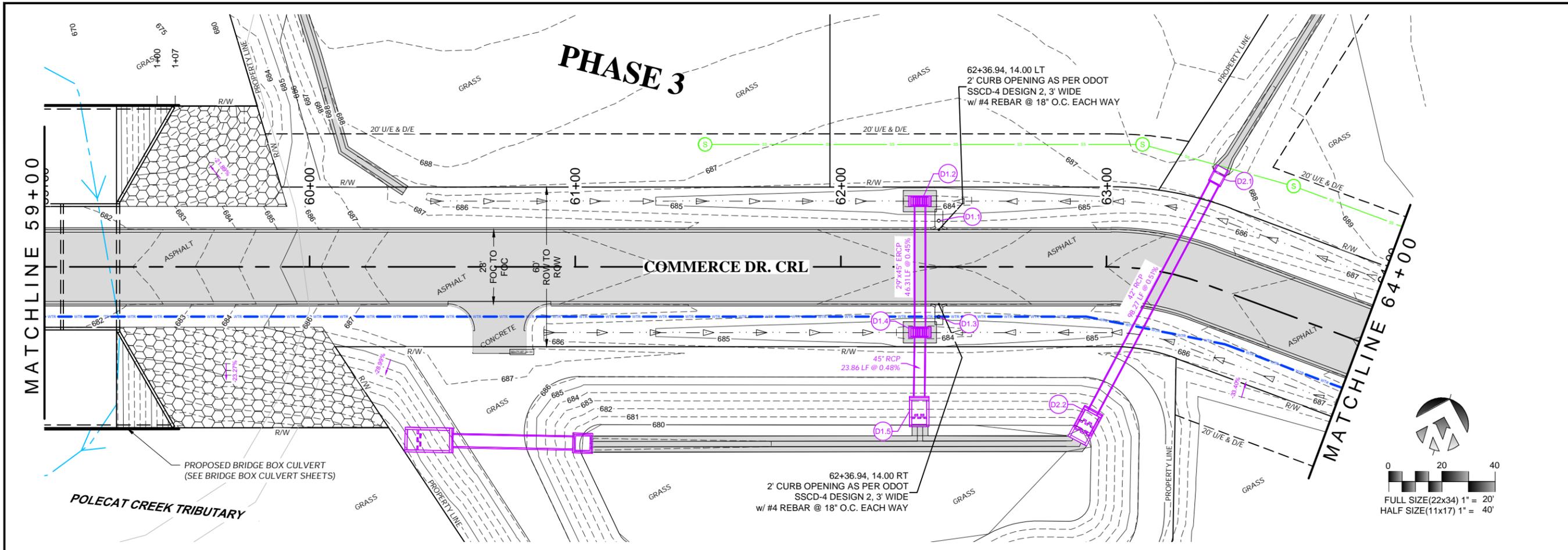
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

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SAPULPA, OKLAHOMA**

**PLAN & PROFILE
COMMERCE DR.
STA 53+99 TO
STA 59+00**

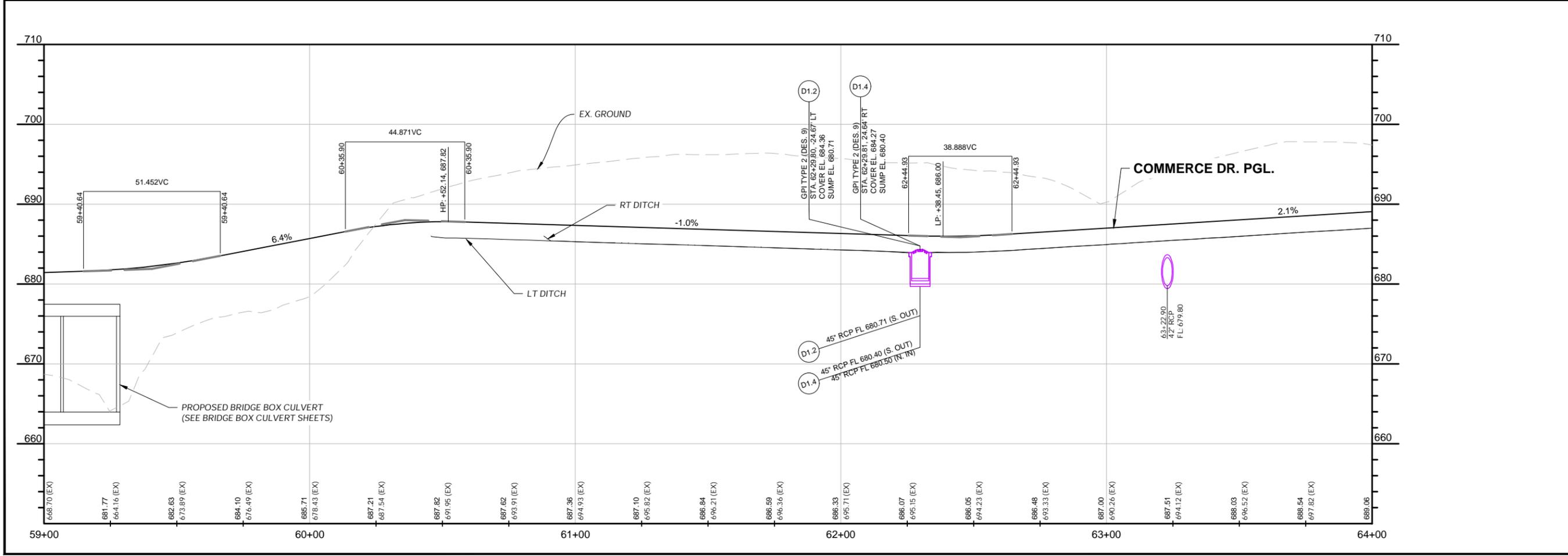
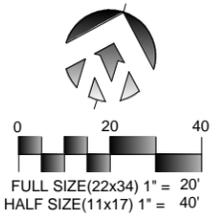
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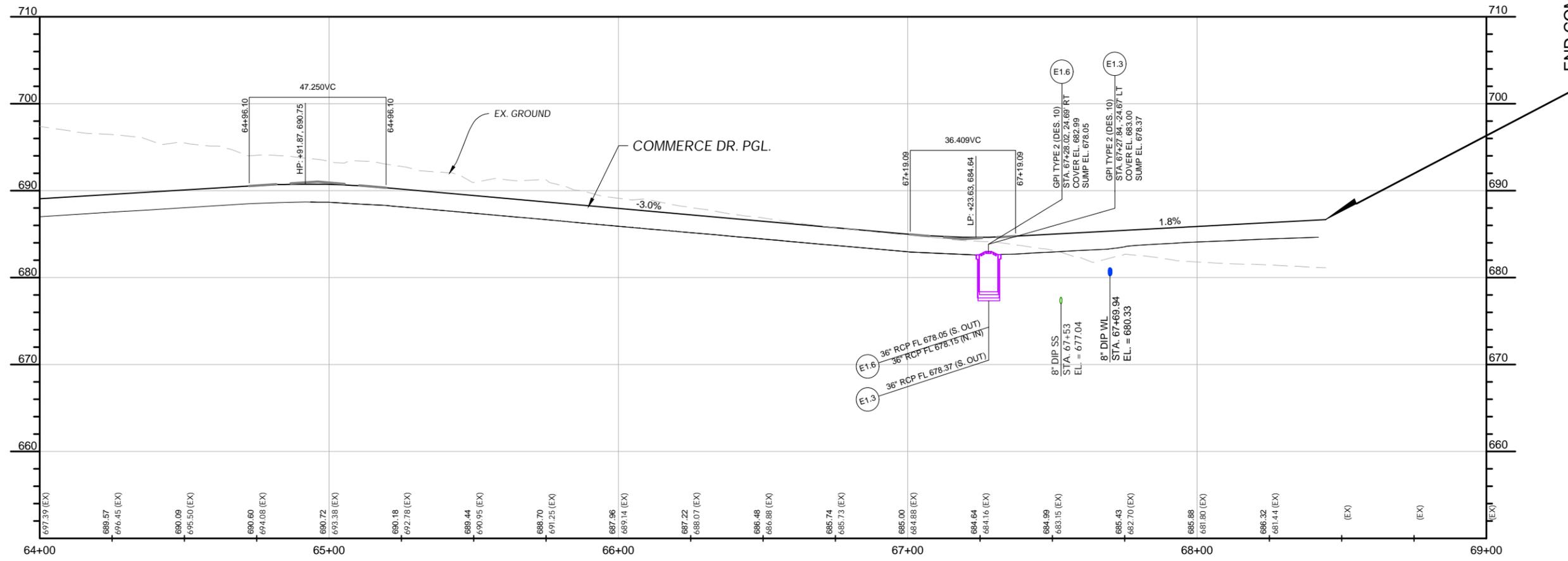
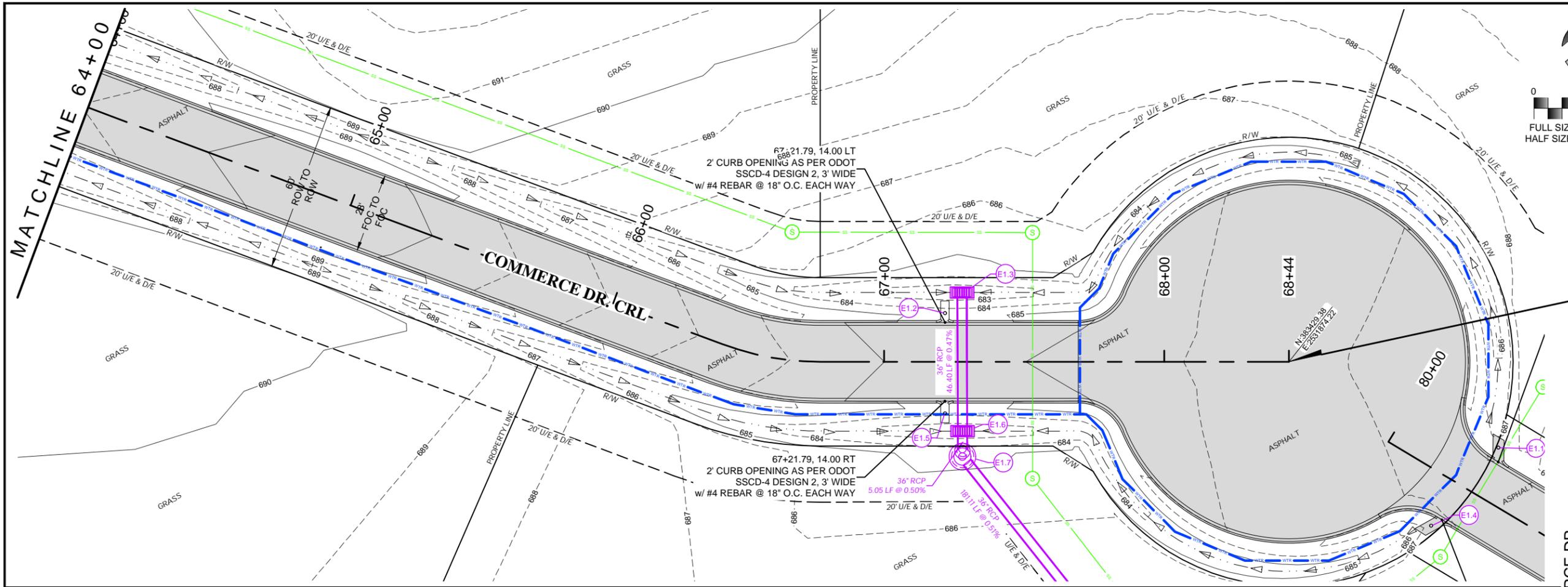


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PLAN & PROFILE
 COMMERCE DR.
 STA 59+00 TO
 STA 64+00

| | |
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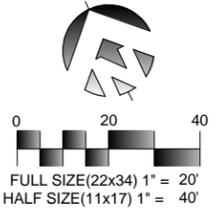
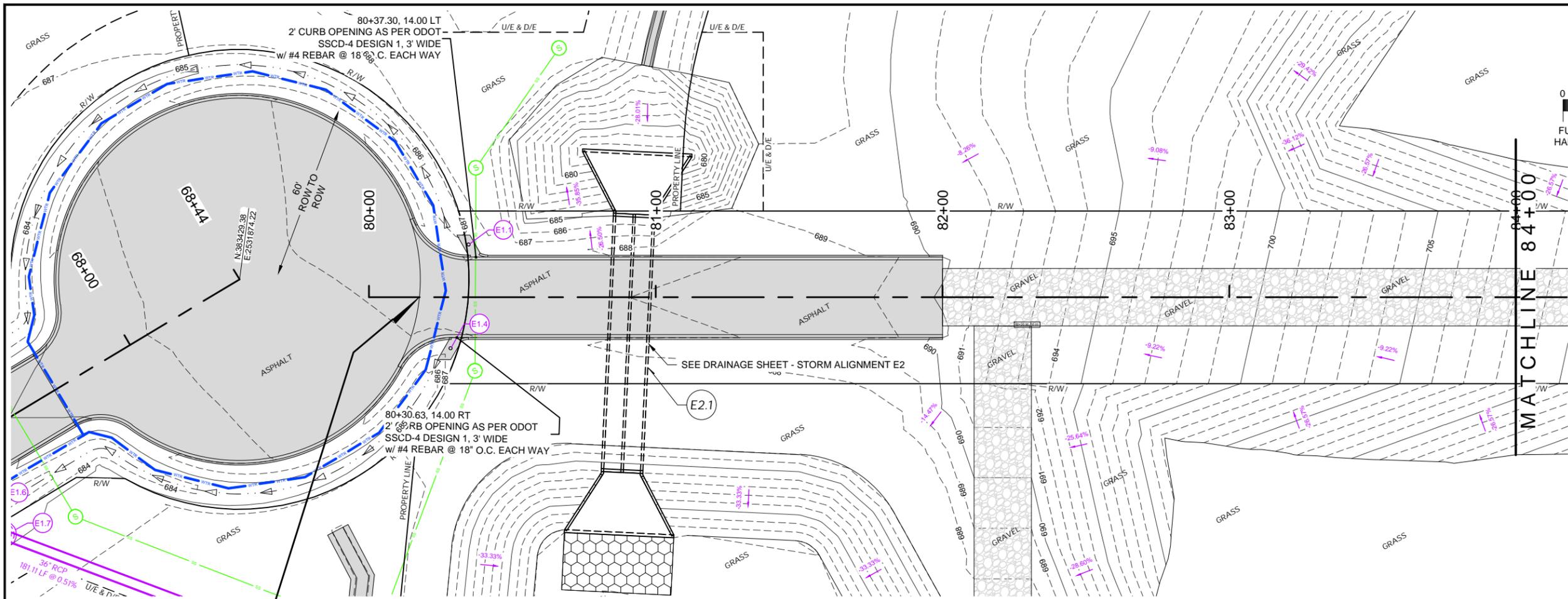
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PHASE 3 - ALTERNATE 2

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SAPULPA, OKLAHOMA

PLAN & PROFILE
COMMERCE DR.
STA 64+00 TO
STA 68+44

| | |
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| PROJECT # | 24.11 |
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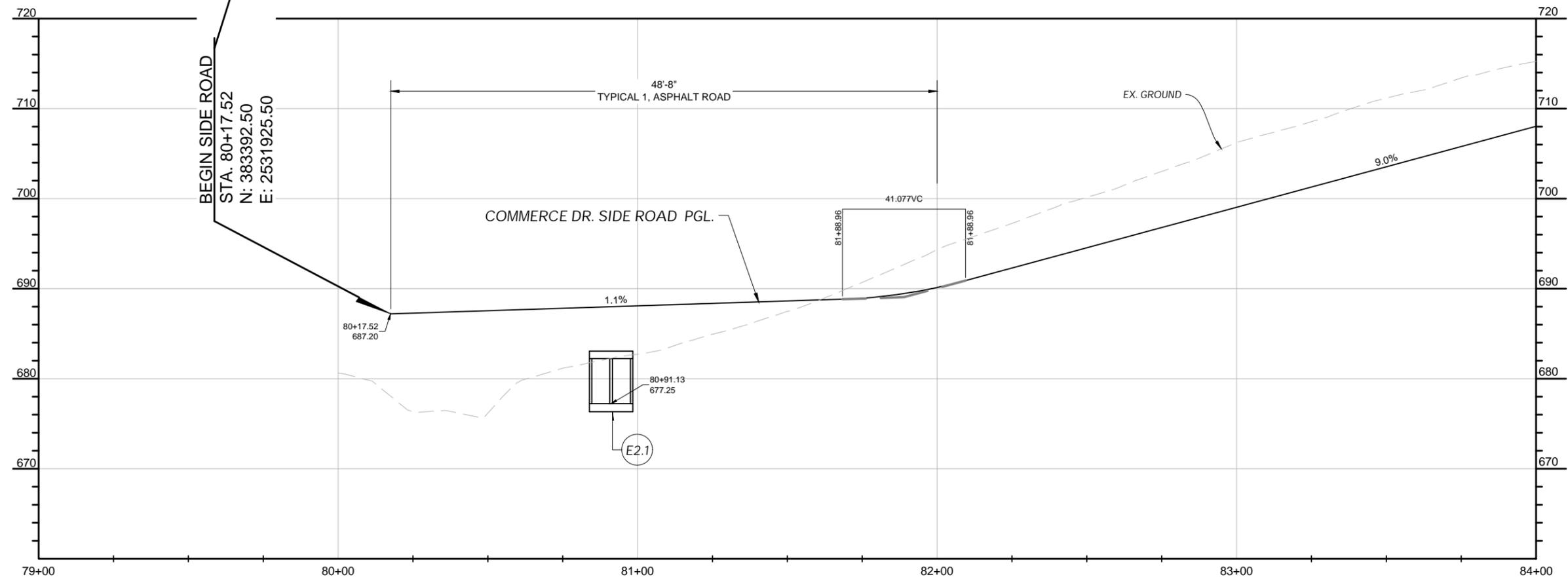
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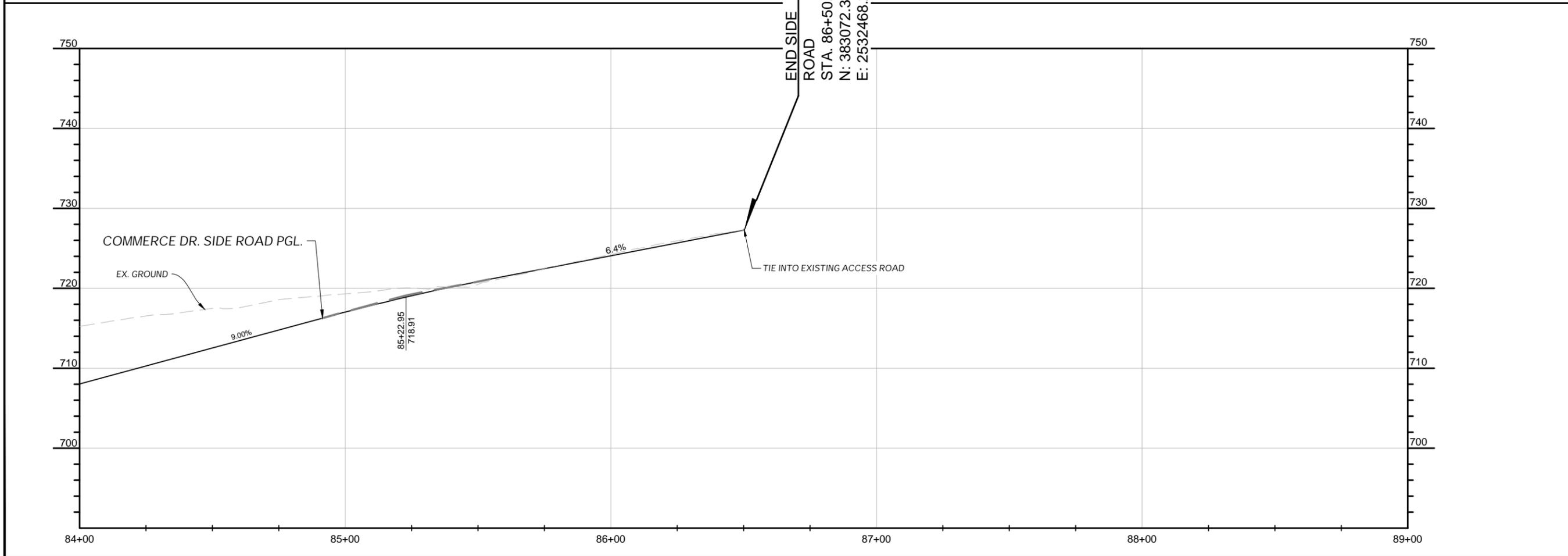
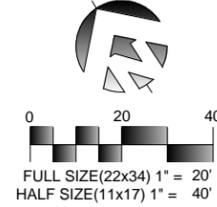
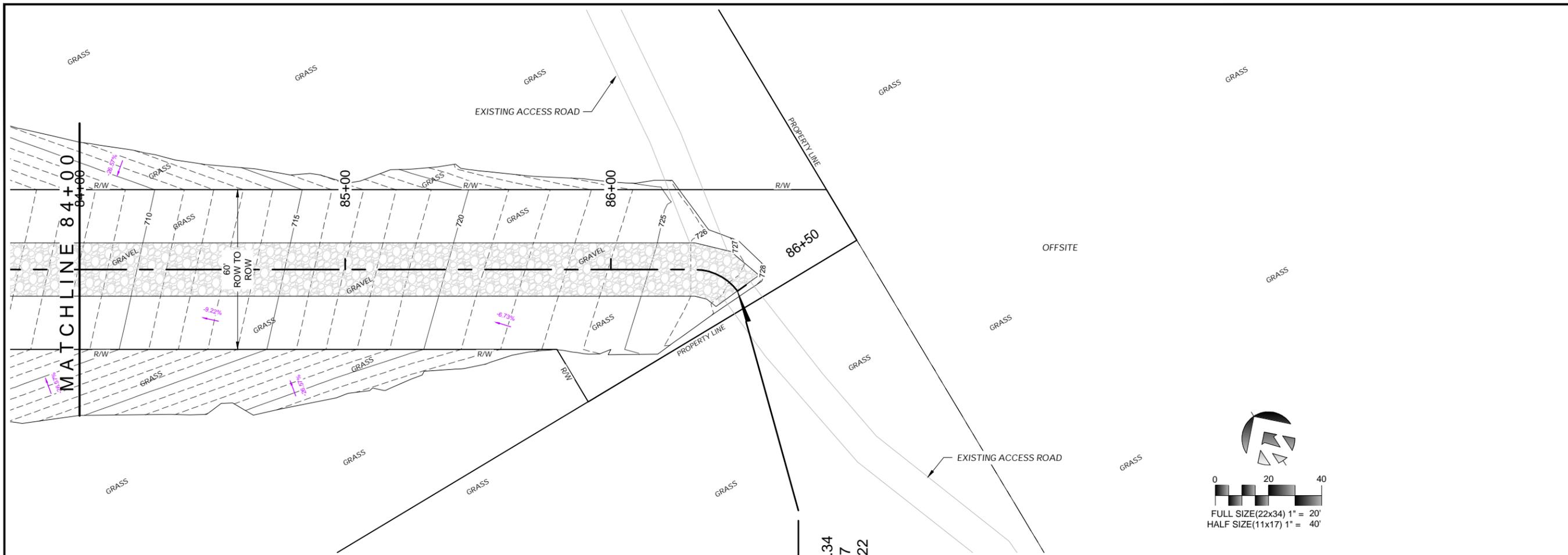
**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

**PHASE 3 (ALT. 3)
 PLAN & PROFILE
 SIDE ROAD
 LINE_4**

| | |
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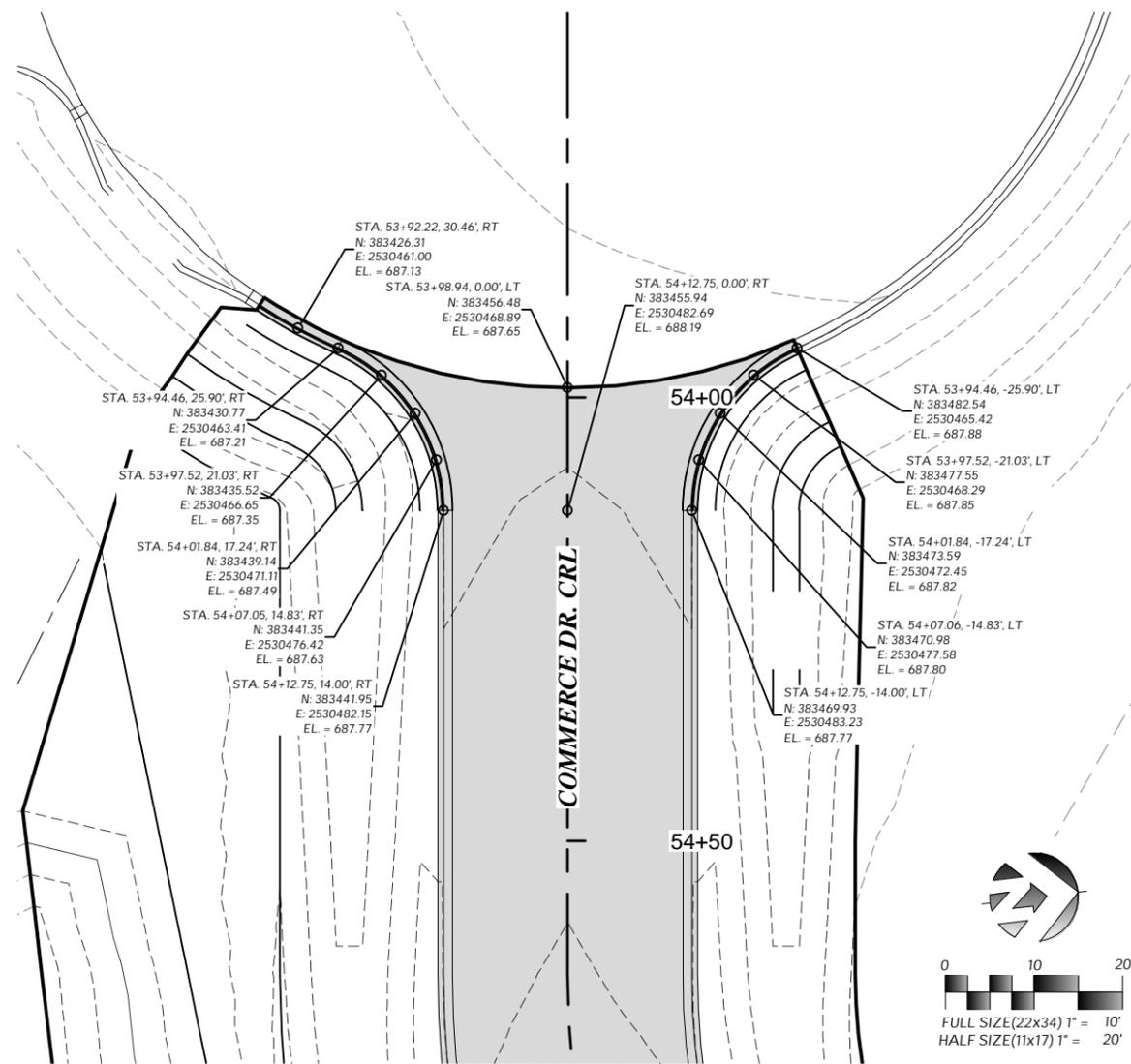


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 PHASE 3 - ALTERNATE 2
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 SAPULPA, OKLAHOMA

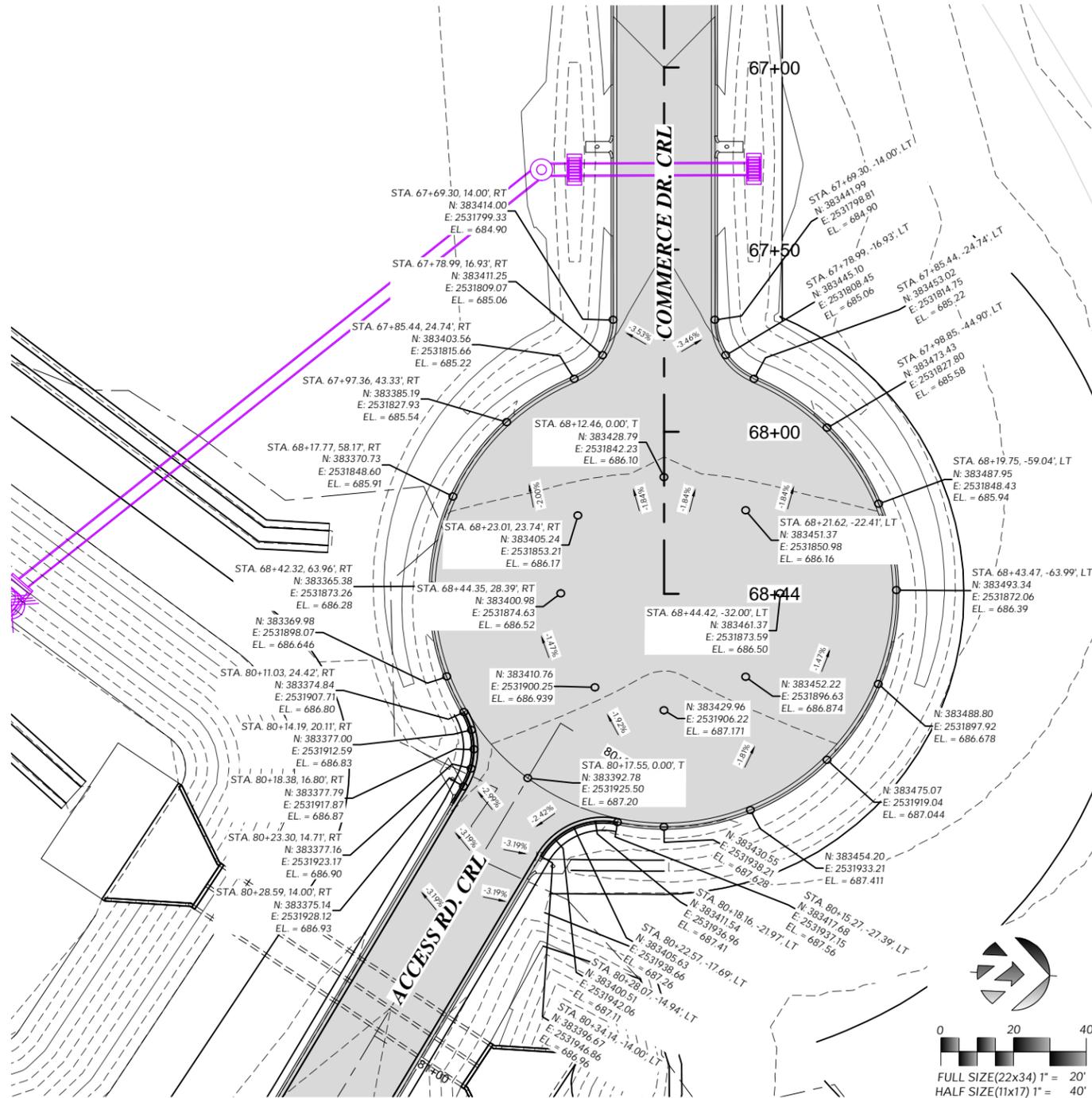
PHASE 3 (ALT. 2)
 PLAN & PROFILE
 SIDE ROAD
 LINE_4

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|----------------|---------------------|
| PROJECT # | 24.11 |
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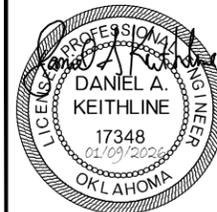
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**1 INTERSECTION @
PHASE 2 COMMERCE DR. & PHASE 3 COMMERCE DR.**
FULL SIZE SCALE (22x34): 1" = 10'
HALF SIZE SCALE (11x17): 1" = 20'



2 CUL-DE-SAC @ COMMERCE DR.
FULL SIZE SCALE (22x34): 1" = 20'
HALF SIZE SCALE (11x17): 1" = 40'



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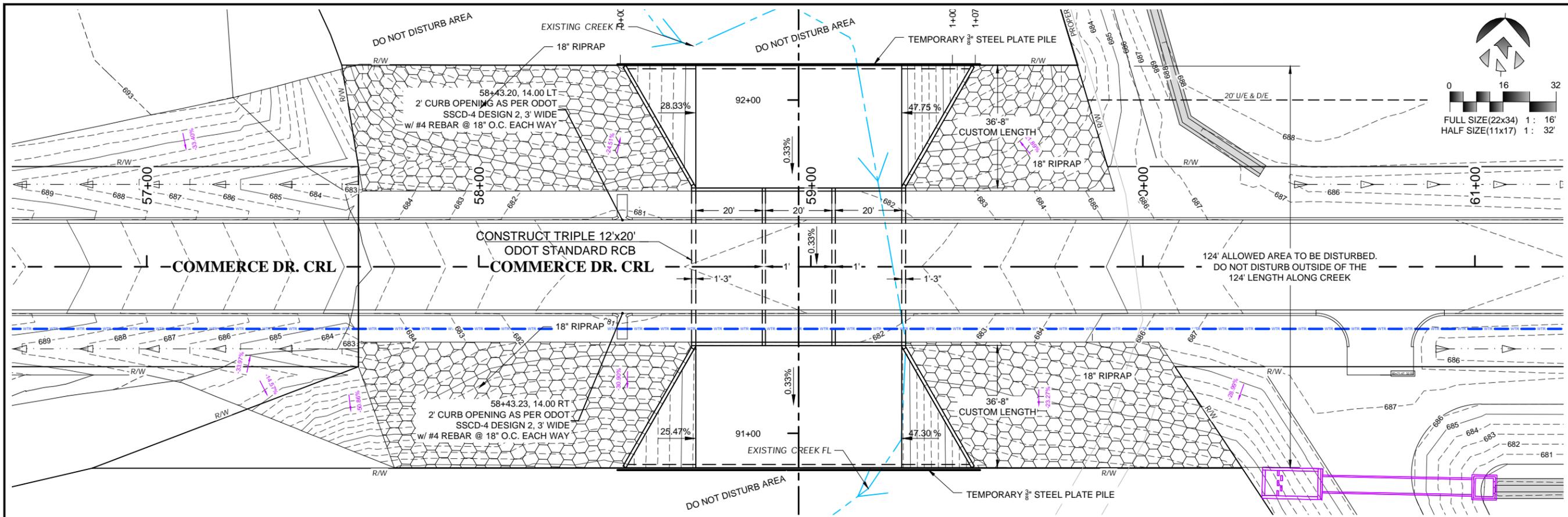
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**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**
**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3
INTERSECTION
DETAILS**

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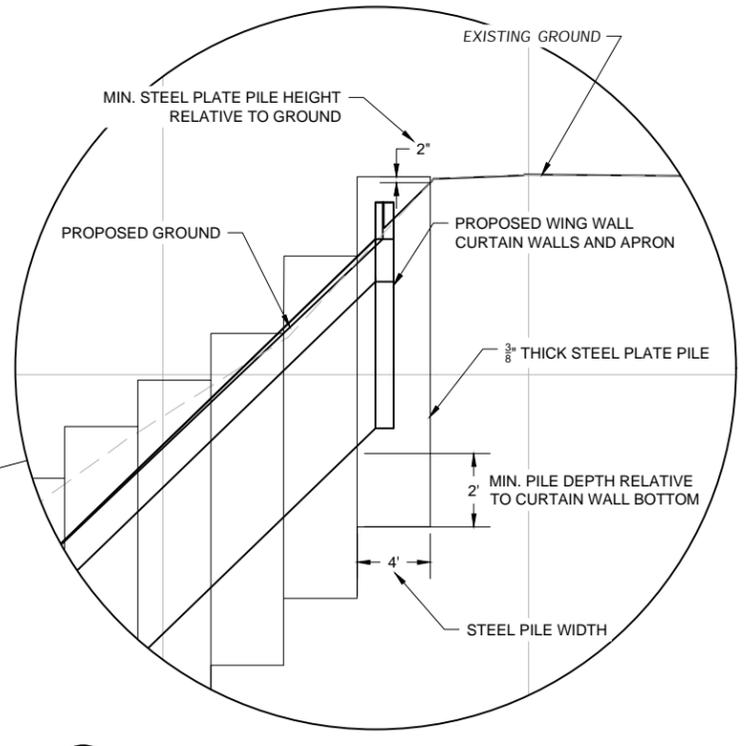
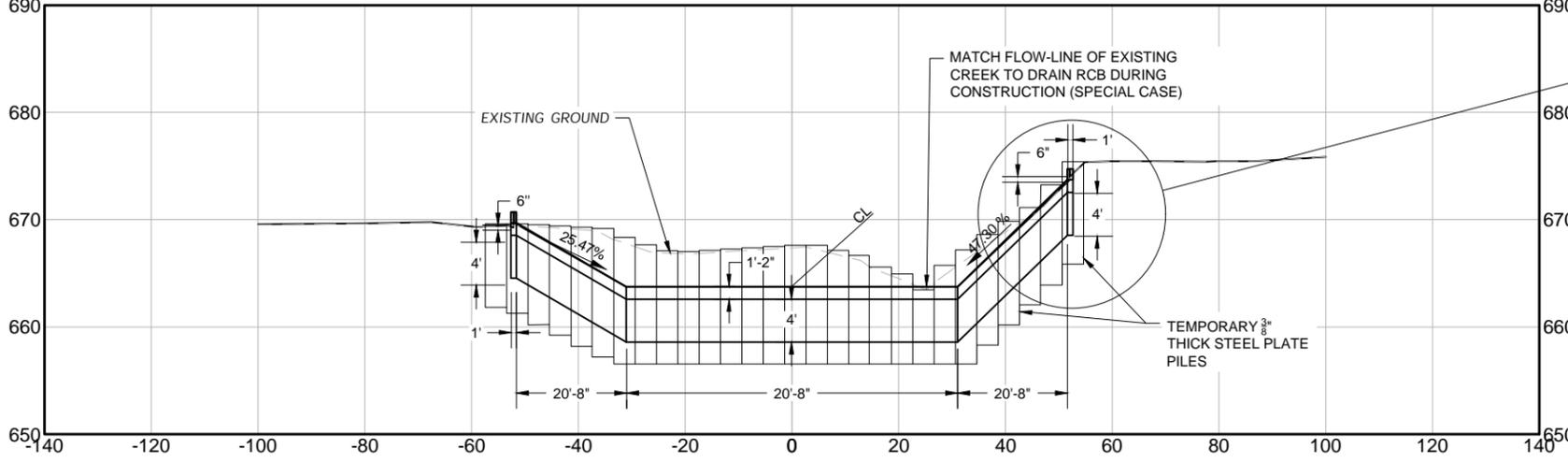
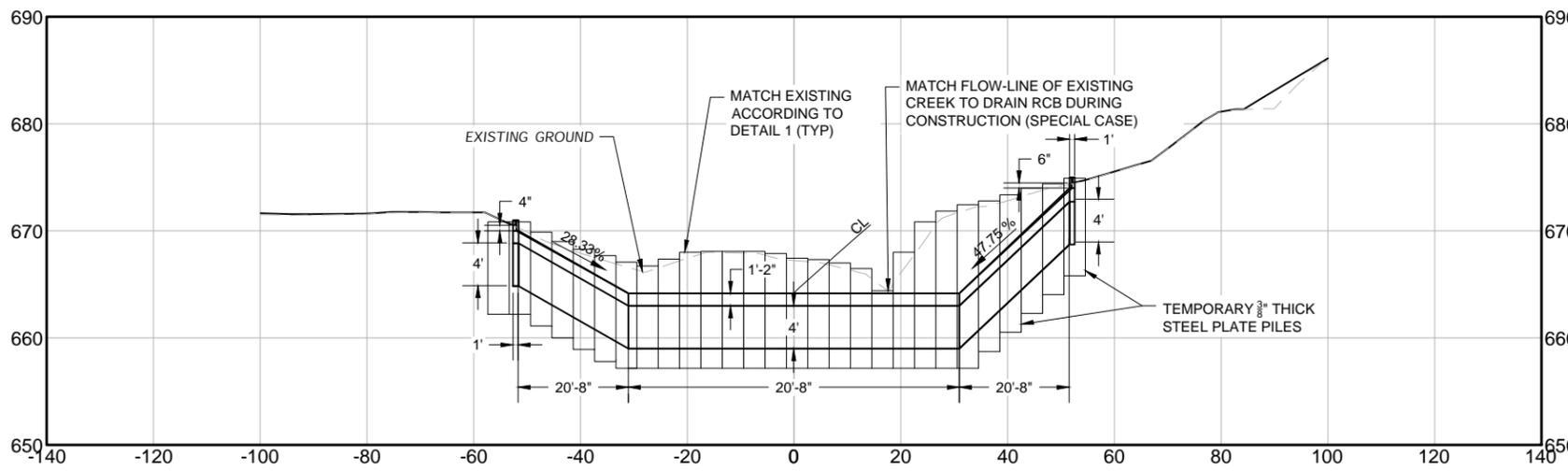


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ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA



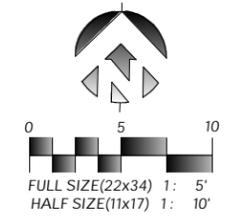
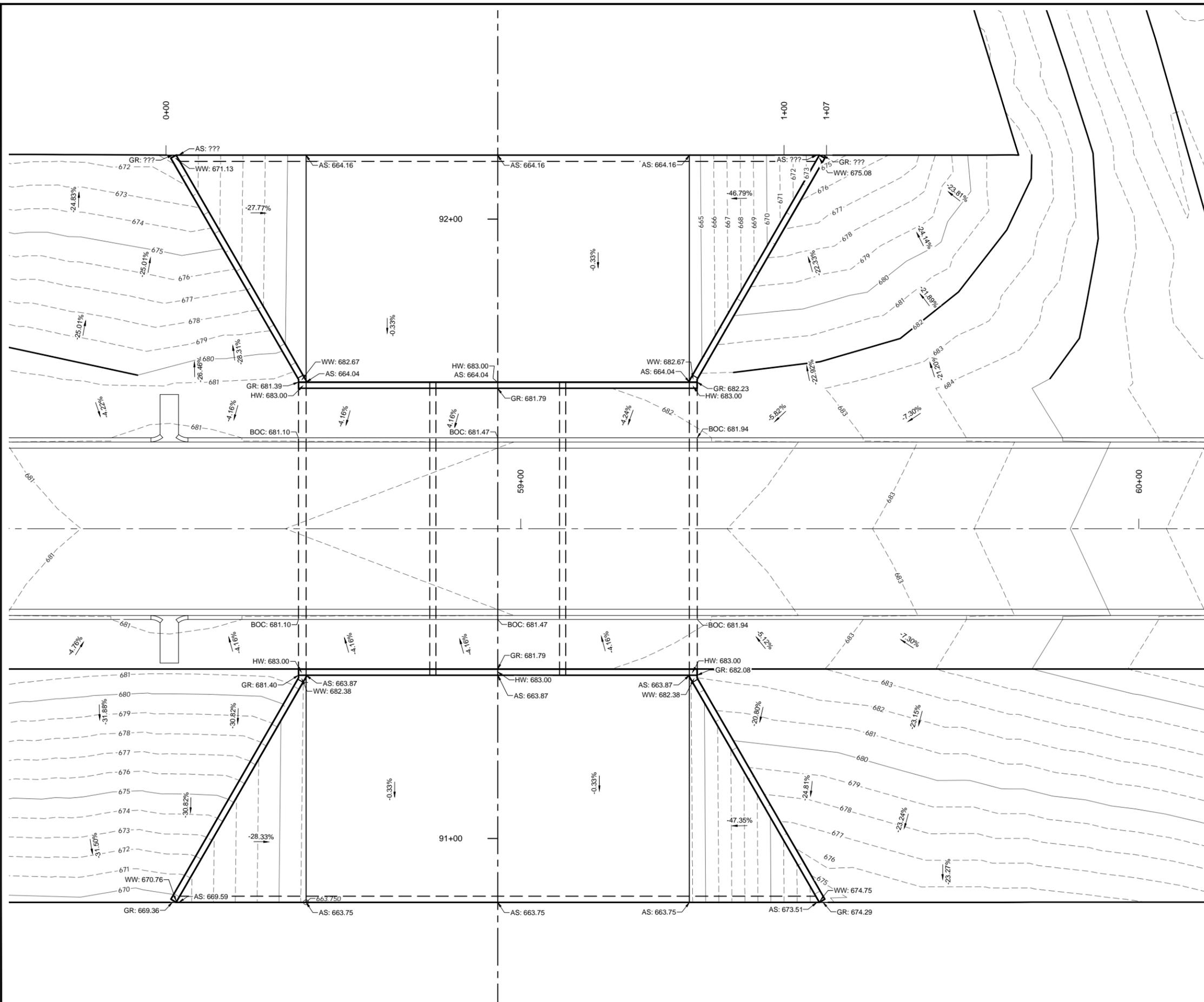
1 TEMPORARY STEEL PLATE PILE DETAIL
 SCALE: 1" = 5'

RCB APRON
 CROSS SECTIONS

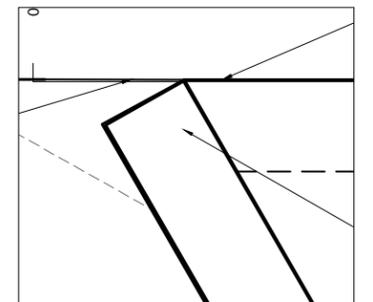
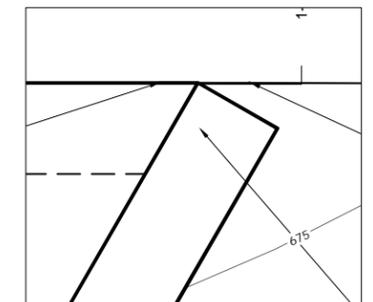
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| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
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| DATE | JANUARY 9, 2026 |
| SHEET: | 19 OF 80 |
| DRAWING: | B02 |

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LEGEND
 HW = TOP OF HEADWALL
 WW = TOP OF WING WALL
 AS = APRON SLAB
 GR = TOP OF RIPRAP OR GRASS
 EGR = EXISTING GROUND
 BOC = BACK OF CURB TOP



Plans and Estimates Prepared by:

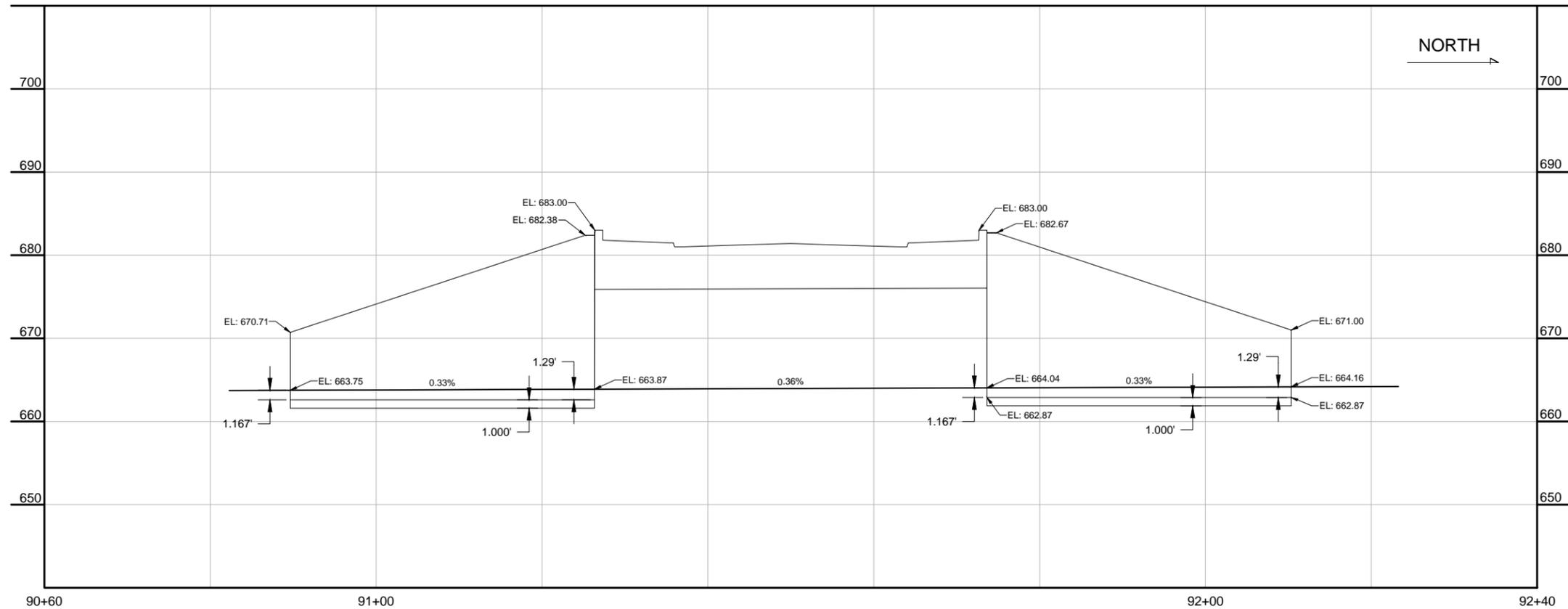
| | |
|---|------|
| KE KEITHLINE ENGINEERING GROUP | DATE |
| 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911 | BY |
| REVISION | |



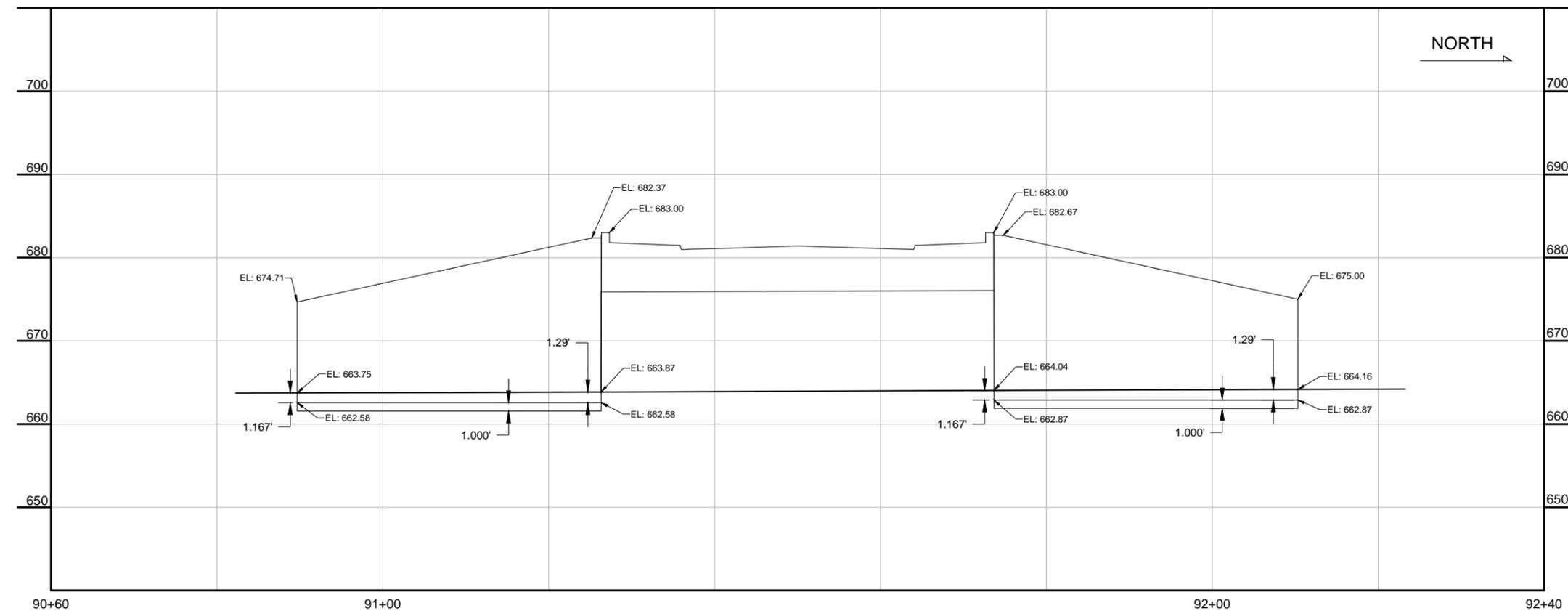
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

BRIDGE BOX
 CULVERT
 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: | 20 OF 80 |
| DRAWING: | B03 |



1 BRIDGE BOX CULVERT - WEST WING WALLS AND FOOTING (SKEWED)
SCALE: 1" = 8'



2 BRIDGE BOX CULVERT - EAST WING WALLS AND FOOTINGS (SKEWED)
SCALE: 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 3 - ALTERNATE 2
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

BRIDGE BOX
PROFILES

| | |
|----------------|---------------------|
| 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: | 21 OF 80 |
| DRAWING: | B04 |

1/9/2026 9:48:12 AM

| SECTION DIMENSIONS | | | | | | | REINFORCING STEEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|-----|-----|-----|--|-------------------|-----|---------|--------|---------|-----|--------|--------|---------|-----|--------|--------|---------|-----|-------|-------|---------|--------|------|-----|---------|--------|--------|--------|---------|-----|--------|--------|---------|-----|--------|--------|---------|------|--------|--------|---------------------|------|--------|---------------------|--------|--------|-----|----|-------|----|----|------|
| | | | | | | | A1-BARS | | | | A2-BARS | | | | A3-BARS | | | | B1-BARS | | | | B2-BARS | | | | C1-BARS | | | | C2-BARS | | | | C3-BARS | | | | C4-BARS | | | | E1-BARS AT 12" MAX. | | | E2-BARS AT 12" MAX. | | | | | | | | |
| S | H | T | U | W | Z | | Size | Spa | Length | Lbs/Ft | Size | Spa | Length | Lbs/Ft | Size | Spa | Length | Lbs/Ft | Size | Spa | X | Y | Length | Lbs/Ft | Size | Spa | X | Y | Length | Lbs/Ft | Size | Spa | Length | Lbs/Ft | Size | Spa | Length | Lbs/Ft | Size | Spa | Length | Lbs/Ft | No. | Size | Lbs/Ft | No. | Size | Lbs/Ft | | | | | | |
| 20' | 12' | 18" | 19" | 15" | 12" | | #8 | 6" | 70'-11" | 757.4 | #9 | 6" | 33'-5" | 454.5 | #4 | 6" | 18'-4" | 98.0 | #7 | 6" | 3'-2" | 4'-2" | 7'-4" | 60.0 | #7 | 6" | 3'-2" | 13'-4" | 16'-6" | 134.9 | #5 | 12" | 2'-8" | | 11.1 | | #5 | 12" | 13'-4" | 55.6 | #5 | 12" | 3'-0" | 6.3 | #5 | 12" | 13'-4" | 27.8 | 272 | #4 | 181.7 | 96 | #4 | 64.1 |

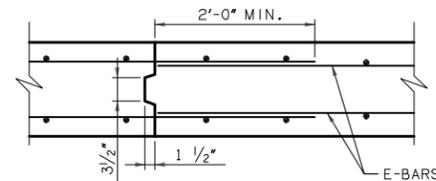
GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- ALL CONCRETE EDGES SHALL HAVE A 1 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.
- ALL REINFORCING STEEL SHALL HAVE A 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.
- THE QUANTITY FOR REINFORCING STEEL DOES NOT INCLUDE LAP SPLICES OF E1-BARS OR E2-BARS IN THE LENGTH OF THE BARREL OR AT TRANSVERSE CONSTRUCTION JOINTS. THE SPLICE LENGTH FOR E-BARS SHALL BE 24" MINIMUM. THE NUMBER OF SPLICES USED IS TO BE APPROVED BY THE ENGINEER. REINFORCING STEEL FOR SPLICES SHALL NOT BE MEASURED FOR PAYMENT, AND ALL COSTS WILL BE INCLUDED IN THE UNIT BID PRICE FOR REINFORCING STEEL.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN ALL CULVERTS 100 FT. OR MORE IN LENGTH. JOINTS SHALL BE SPACED AT 60 FT. MAX.
- REINFORCING STEEL SHALL BE CONTINUOUS THROUGH THE TRANSVERSE CONSTRUCTION JOINT AND EXTEND A MIN. OF 24" INTO ADJACENT SECTION.

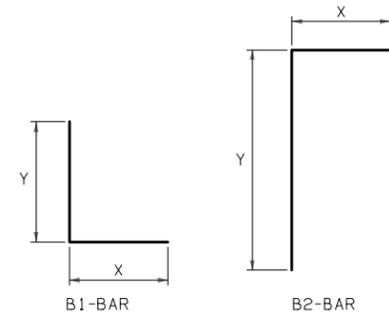
DESIGN DATA:

- DESIGNED IN ACCORDANCE WITH 1998 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIM SPECIFICATIONS FROM 1999, 2000, 2001 AND 2002.
- DESIGNED FOR HL-93 LOADING AND ODOT OVERLOAD TRUCK.
- MATERIALS:
 CONCRETE (CLASS AA) $f'_c = 4$ KSI
 REINFORCING STEEL $f_y = 60$ KSI

| SECTION DIMENSIONS | | QUANTITIES | | |
|--------------------|----|-----------------------------|---------------|---------------|
| S | H | PER FOOT OF [TRIPLE] BARREL | | BARREL LENGTH |
| | | CONC. (C.Y.) | REINF. (LBS.) | (FT.) |
| 20 | 12 | 9.37 | 1851.4 | 47.333 |



RCB TRANSV. CONSTR. JOINT

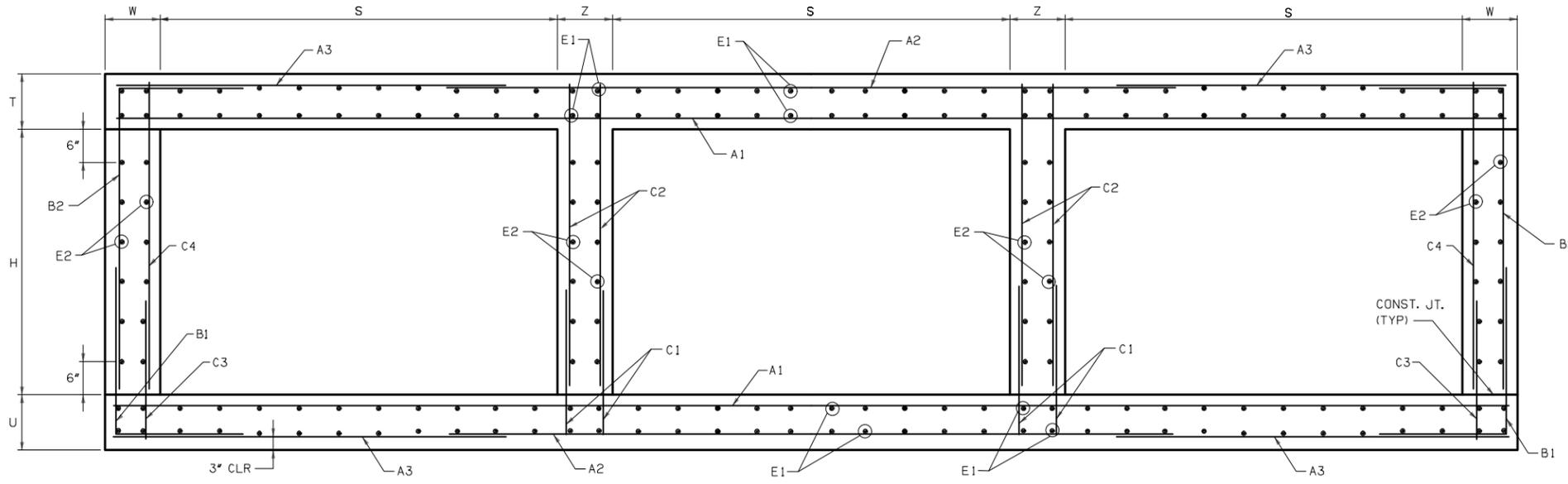


BAR BEND DIAGRAMS

| SECTION DIMENSIONS | | BARREL QUANTITIES | |
|--------------------|-----|-------------------|--------------|
| S | H | CONC. (C.Y.) | REINF. (LB.) |
| 20' | 12' | 9.37 | 1851.4 |

NOTE: NUMBER AND SPACING OF E-BARS SHOWN MAY NOT BE REPRESENTATIVE OF ACTUAL CULVERT SECTIONS, SEE SCHEDULE ABOVE FOR NUMBER AND SPACING OF E-BARS.

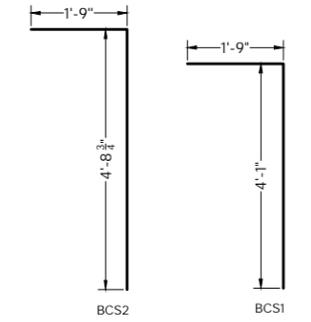
NOTE: ALL *X* DIMENSIONS ARE HORIZONTAL IN BARREL SECTION. ALL *Y* DIMENSIONS ARE VERTICAL IN BARREL SECTION.



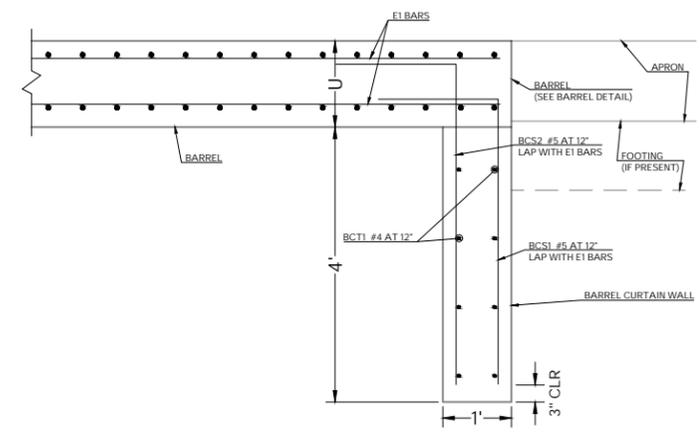
1 BARREL SECTION
SCALE: NTS

| BARREL CURTAIN WALL BAR LIST (ONE CURTAIN WALL) | | | | | | | |
|---|------|------|---------|-----|--------|----|--------------|
| MARK | SIZE | FORM | SPACING | QTY | LENGTH | | TOTAL WEIGHT |
| | | | | | EA | FT | |
| BCS1 | #5 | BNT | 12" | 64 | 5.83 | | 389.16 |
| BCS2 | #5 | BNT | 12" | 64 | 6.48 | | 432.55 |
| BCT1 | #4 | STR | 12" | 8 | 64.00 | | 342.02 |
| TOTAL | | | | | | | 1163.73 |

| BARREL CURTAIN WALL QUANTITIES (ONE CURTAIN WALL) | |
|---|--------|
| CONCRETE | REIN. |
| C.Y. | LBS. |
| 9.5 | 1163.7 |



BAR BEND DIAGRAMS



2 BARREL CURTAIN WALL
SCALE: 3/4" = 1'



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 3 - ALTERNATE 2**
**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

**BRIDGE BOX
 BARREL DETAIL**

| | |
|----------------|---------------------|
| 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: | 22 OF 80 |
| DRAWING: | |

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| | | REVISION | |

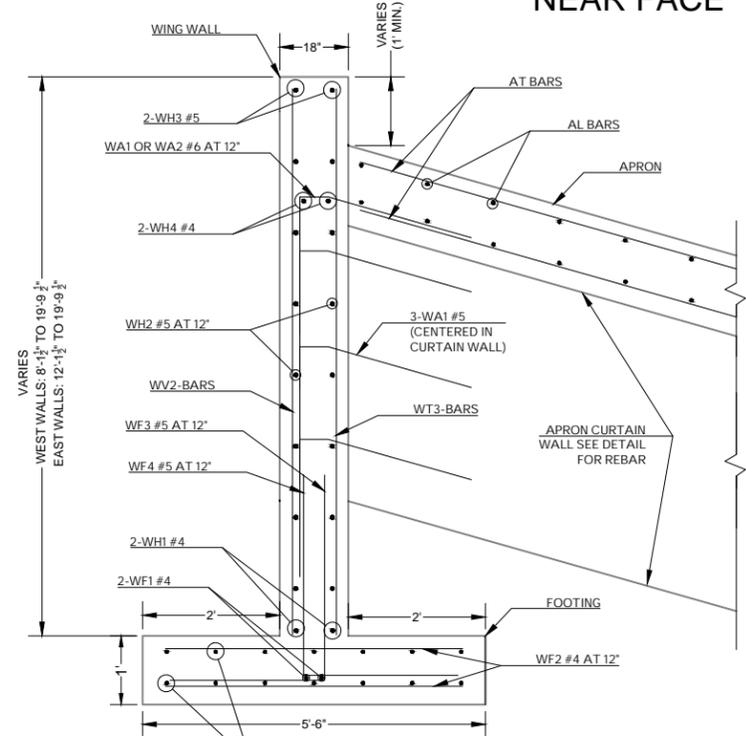


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

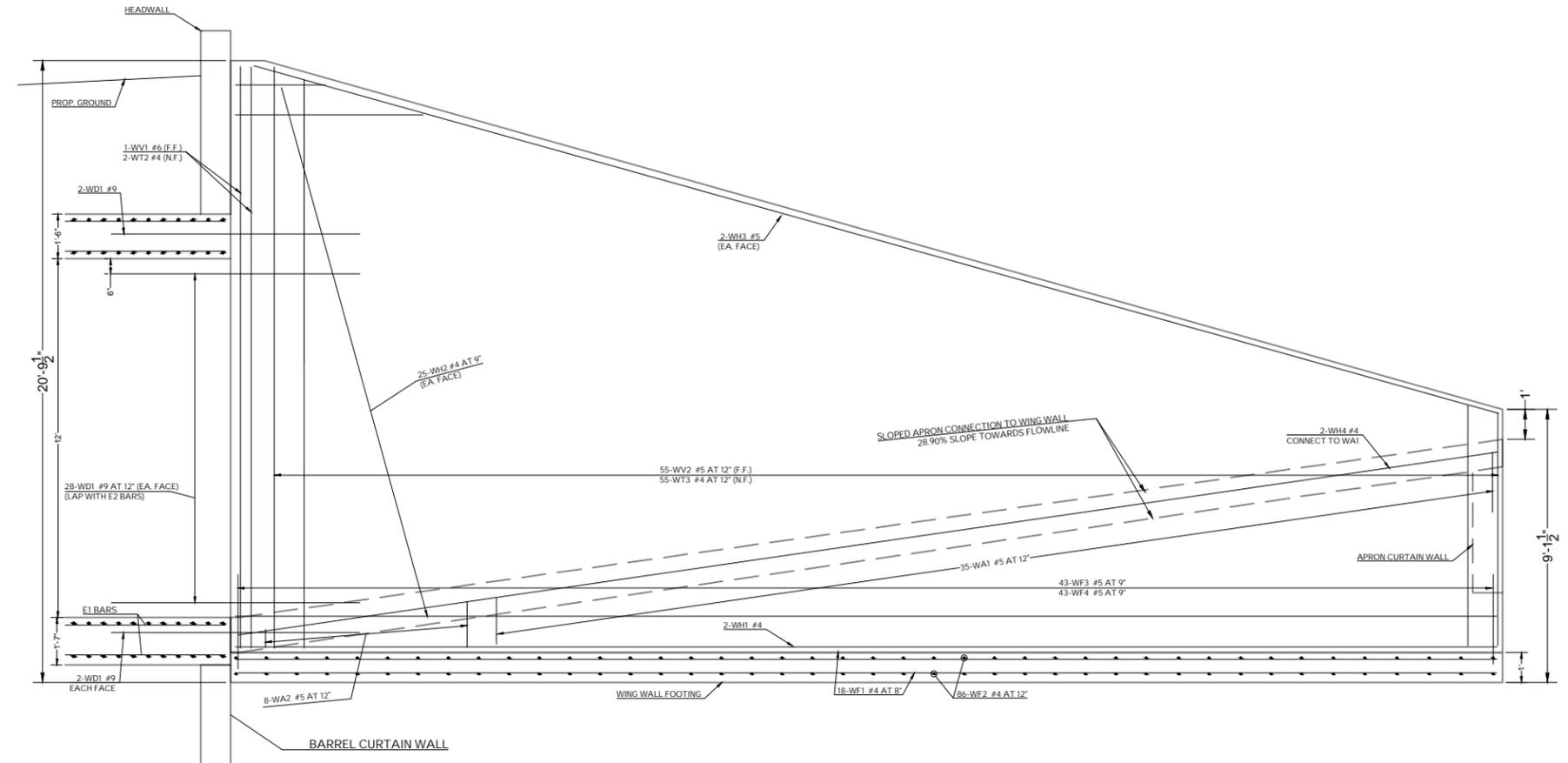
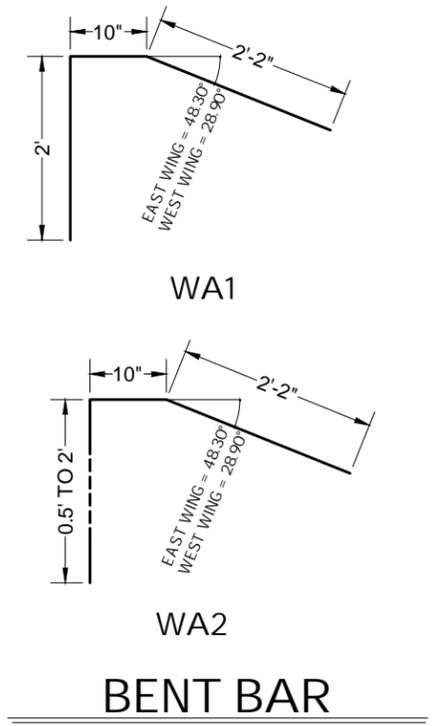
APRON
 AND
 WING WALL
 DETAILS

| | |
|----------------|---------------------|
| 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 |
| SHEET: | 23 OF 80 |
| DRAWING: | |

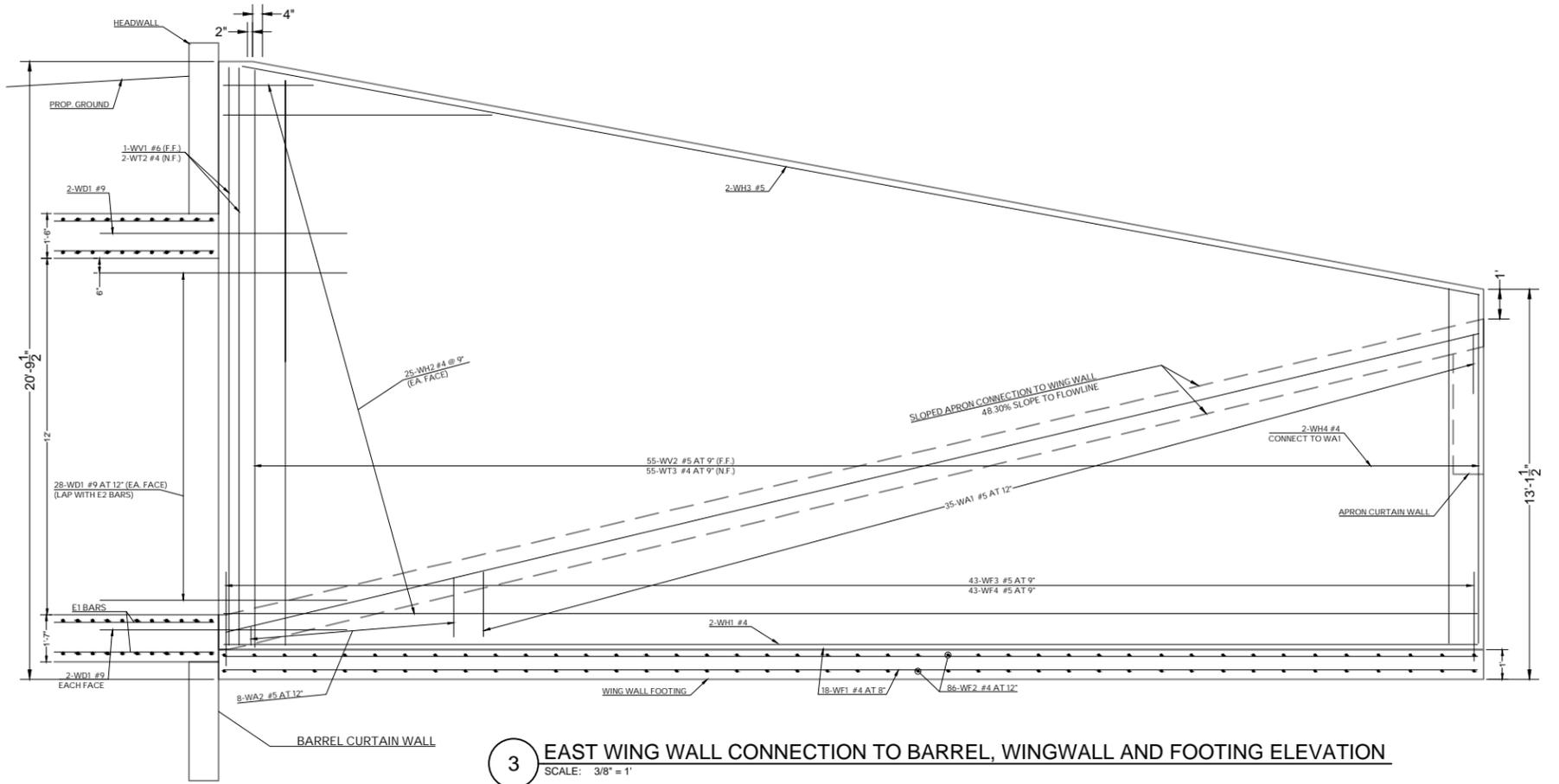
NEAR FACE



2 TYPICAL WING WALL TO APRON & CURTAIN WALL
 SCALE: NTS



1 WEST WING WALL CONNECTION TO BARREL, WINGWALL AND FOOTING ELEVATION
 SCALE: 3/8" = 1'



3 EAST WING WALL CONNECTION TO BARREL, WINGWALL AND FOOTING ELEVATION
 SCALE: 3/8" = 1'

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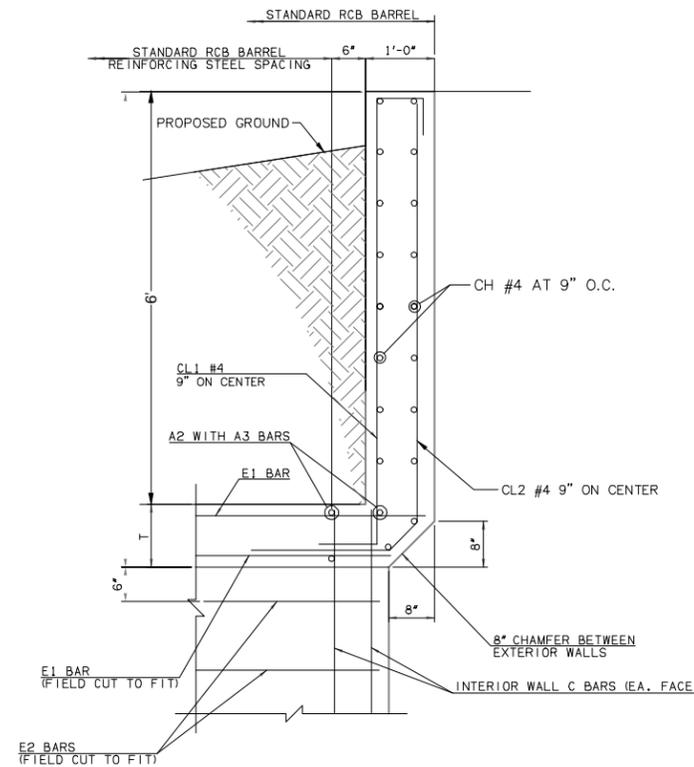
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

APRON
 AND
 WING WALL
 DETAILS

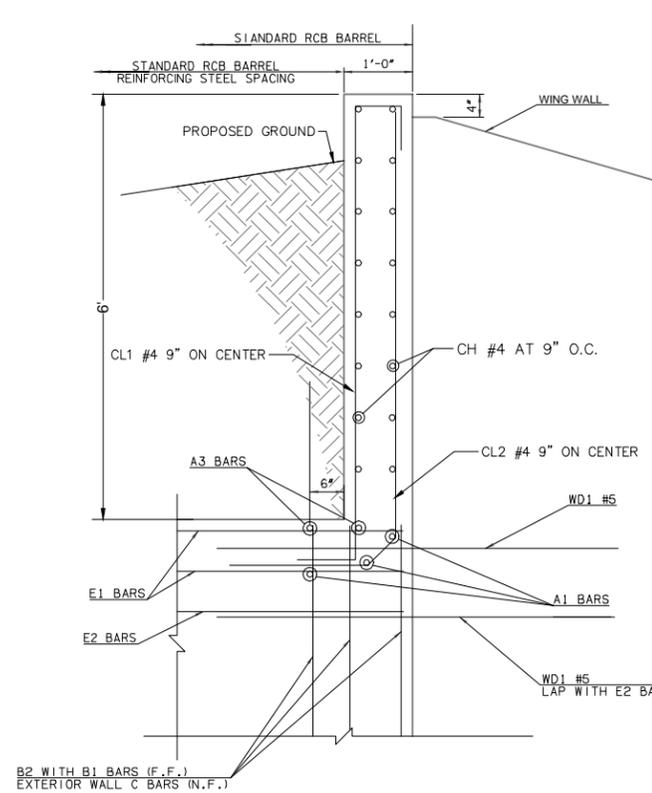
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|----------------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | ... |
| DATE: | JANUARY 9, 2026 |

SHEET: 24 OF 80

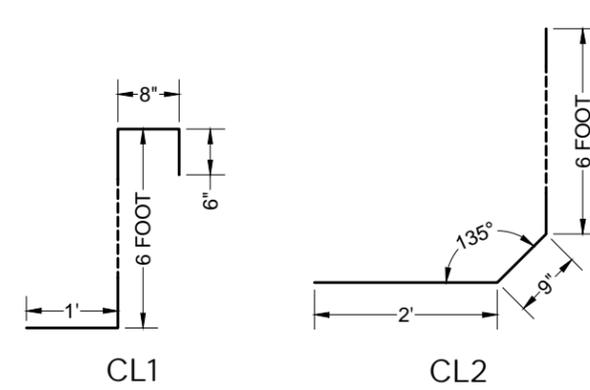
DRAWING:



1 HEADWALL DETAIL AT INTERIOR WALL
 SCALE: NTS



2 HEADWALL DETAIL AT EXTERIOR WALL
 SCALE: NTS



BENT BAR

| APRON CURTAIN WALL QUANTITIES (ONE CURTAIN WALL) | |
|--|----------|
| CONCRETE C.Y. | REIN LBS |
| 15.3 | 2107.7 |

| APRON QUANTITIES (ONE APRON) | |
|------------------------------|----------|
| CONCRETE C.Y. | REIN LBS |
| 131.3 | 9713.9 |

| HEADWALL QUANTITIES (ONE HEAD WALL) | |
|-------------------------------------|----------|
| CONCRETE C.Y. | REIN LBS |
| 14.3 | 1646.4 |

| WING WALL QUANTITIES (ONE AVERAGE WING WALL) | |
|--|----------|
| CONCRETE C.Y. | REIN LBS |
| 43.5 | 4876.0 |

| WINGWALL BAR LIST (ONE AVERAGE WINGWALL) | | | | | | | |
|--|------|------|---------|--------|-----------|----------------|------------------|
| MARK | SIZE | FORM | SPACING | QTY EA | LENGTH FT | REMARKS | TOTAL WEIGHT LBS |
| WD1 | #9 | BNT | | 28 | 8.33 | | 793.0 |
| WH1 | #4 | STR | | 2 | 42.593 | | 56.9 |
| WH2 | #4 | STR | 9" | 50 | 29.48 | 3.00' TO 42.29 | 984.6 |
| WH3 | #5 | STR | | 2 | 43.32 | | 90.4 |
| WH4 | #4 | STR | | 2 | 42.69 | | 57.0 |
| WA1 | #5 | BNT | 12" | 38 | 4.5 | | 178.4 |
| WA2 | #5 | BNT | 12" | 7 | 3.75 | CUT FOR 2" CLR | 27.4 |
| WT2 | #4 | STR | | 2 | 19.5 | | 26.1 |
| WT3 | #4 | STR | 9" | 55 | 14.65 | 7.29' TO 9.26' | 538.2 |
| WV1 | #6 | STR | | 1 | 19.5 | | 29.3 |
| WV2 | #5 | STR | 9" | 55 | 14.65 | 7.29' TO 9.26' | 840.4 |
| WF1 | #4 | STR | 8" | 18 | 40.5 | | 487.0 |
| WF2 | #4 | STR | 12" | 86 | 5.16 | | 296.4 |
| WF3 | #5 | BNT | 12" | 43 | 5.25 | | 235.5 |
| WF4 | #5 | BNT | 12" | 43 | 5.25 | | 235.5 |
| TOTAL | | | | | | | 4876.0 |

| HEADWALL BAR LIST (ONE HEADWALL) | | | | | | | |
|----------------------------------|------|------|---------|--------|-----------|---------|------------------|
| MARK | SIZE | FORM | SPACING | QTY EA | LENGTH FT | REMARKS | TOTAL WEIGHT LBS |
| CH | #4 | STR | 9" | 16 | 64.17 | | 685.8 |
| CL1 | #4 | BNT | 9" | 85 | 8.17 | | 463.7 |
| CL2 | #4 | BNT | 9" | 85 | 8.75 | | 496.8 |
| TOTAL | | | | | | | 1646.4 |

| APRON CURTAIN WALL BAR LIST (ONE APRON CURTAIN WALL) | | | | | | | |
|--|------|------|---------|--------|-----------|--------------------------------|------------------|
| MARK | SIZE | FORM | SPACING | QTY EA | LENGTH FT | REMARKS | TOTAL WEIGHT LBS |
| CS1 | #5 | BNT | 12" | 104 | 5.83 | | 632.4 |
| CS2 | #5 | BNT | 12" | 104 | 6.42 | | 696.0 |
| CT1 | #4 | STR | 12" | 16 | 21.00 | FOR SLOPED APRON - 2 PER APRON | 224.4 |
| CT2 | #4 | STR | 12" | 8 | 61.38 | | 512.1 |
| AB1 | #4 | BNT | 12" | 16 | 4.00 | ALIGNED WITH CT1 & CT2 | 42.8 |
| TOTAL | | | | | | | 2107.7 |

| HEADWALL BAR LIST (ONE HEADWALL) | | | | | | | |
|----------------------------------|------|------|---------|--------|-----------|---------|------------------|
| MARK | SIZE | FORM | SPACING | QTY EA | LENGTH FT | REMARKS | TOTAL WEIGHT LBS |
| CH | #4 | STR | 9" | 16 | 64.17 | | 685.8 |
| CL1 | #4 | BNT | 9" | 85 | 8.17 | | 463.7 |
| CL2 | #4 | BNT | 9" | 85 | 8.75 | | 496.8 |
| TOTAL | | | | | | | 1646.4 |

| APRON BAR LIST (ONE APRON) | | | | | | | |
|----------------------------|------|------|---------|--------|-----------|------------------------|------------------|
| MARK | SIZE | FORM | SPACING | QTY EA | LENGTH FT | REMARKS | TOTAL WEIGHT LBS |
| AD1 | #4 | STR | | 2 | 39.83 | | 53.2 |
| AL1 | #4 | STR | 12" | 128 | 40.00 | EMBED 2.5" INTO BARREL | 3420.2 |
| AL2 | #4 | STR | 12" | 84 | 18.28 | 1' TO 53.75' | 1025.7 |
| AT1 | #4 | STR | | 8 | 19.75 | ABOVE CURTAIN WALL | 105.5 |
| AT2 | #4 | STR | | 4 | 30.76 | ABOVE CURTAIN WALL | 82.2 |
| AT3 | #4 | STR | 12" | 70 | 7.20 | 1.2' TO 20.6" | 336.7 |
| AT4 | #5 | STR | 12" | 70 | 7.20 | 1.2' TO 20.6' | 525.7 |
| AT5 | #4 | STR | 12" | 36 | 61.54 | | 1479.9 |
| AT6 | #5 | STR | 12" | 36 | 61.54 | | 2310.7 |
| AB1 | #4 | BNT | 12" | 140 | 4.00 | CUT TO FIT IF NEEDED | 374.1 |
| TOTAL | | | | | | | 9713.9 |

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



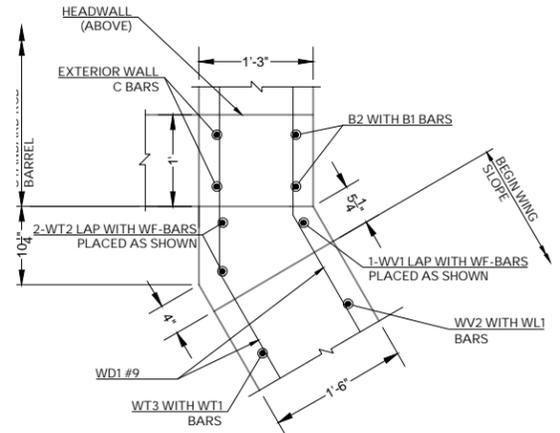
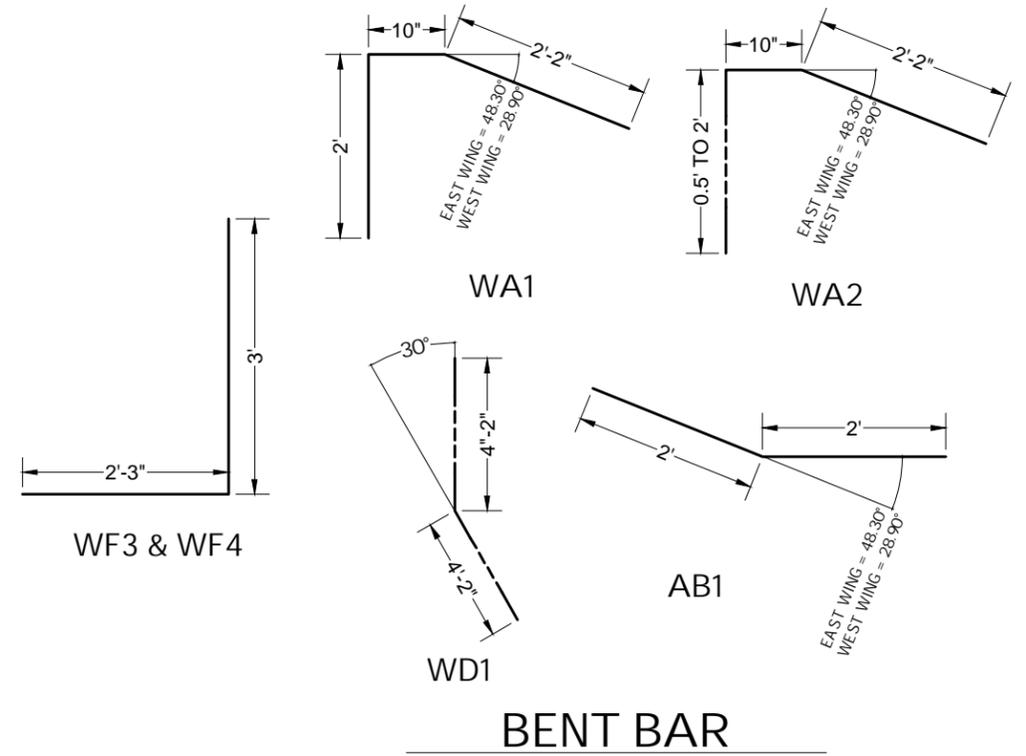
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

APRON
 AND
 WING WALL
 DETAILS

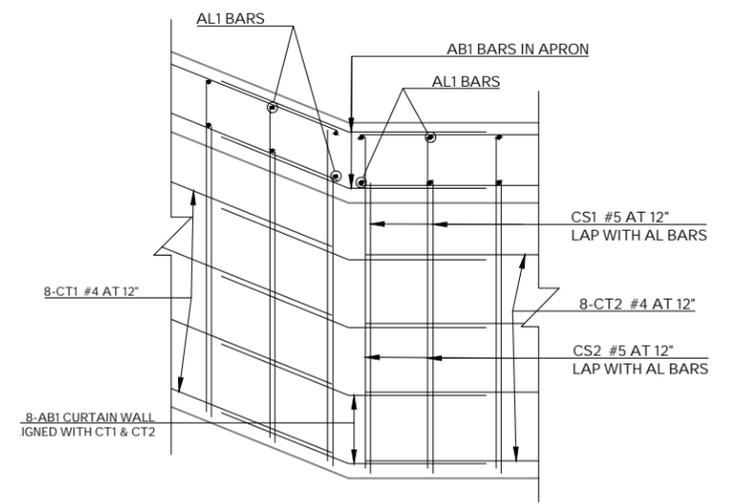
PROJECT # 24.11
 SURVEY AJN (FLS) 12/2024
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SHEET: 25 OF 80

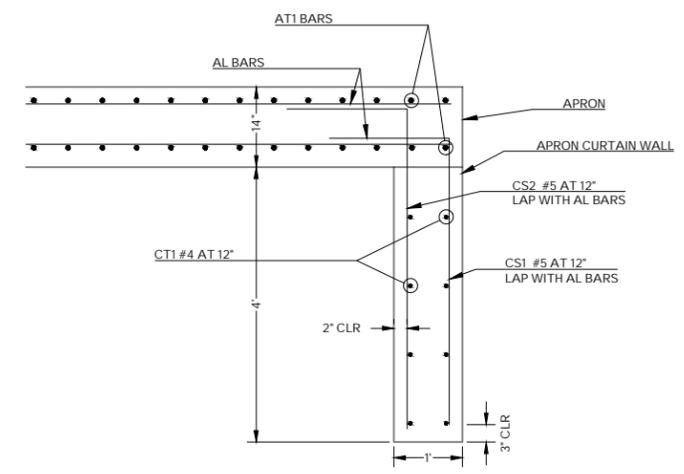
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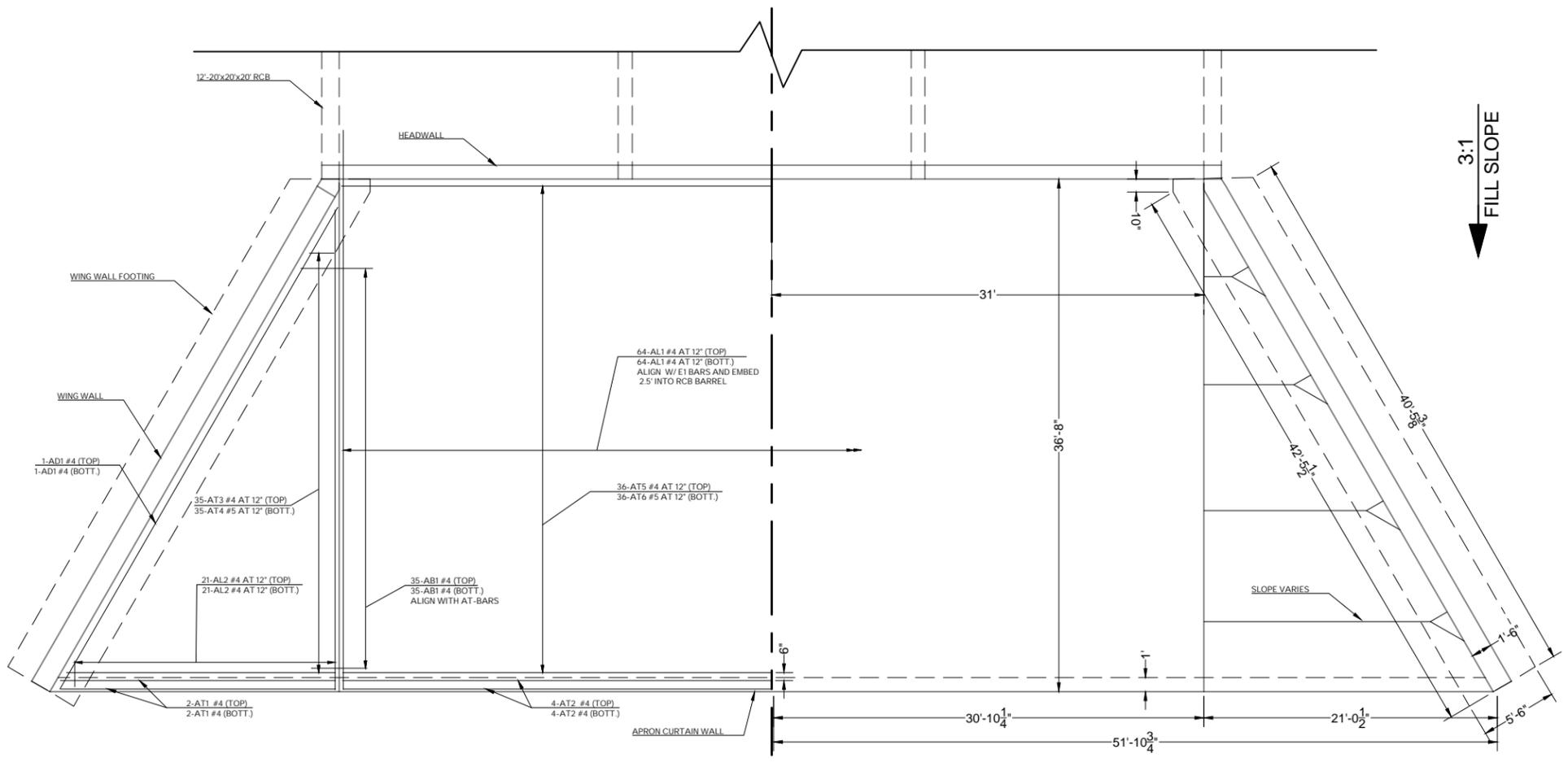
2 PLAN VIEW - WING TO BARREL CONNECTION
 SCALE: NTS



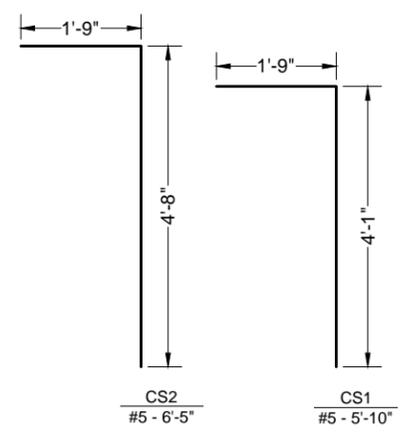
1 CUTAIN WALL - APRON TO SLOPED APRON
 FULL SIZE SCALE (22x34): 3/4" = 1'-0"
 HALF SIZE SCALE (11x17): 3/8" = 1'-0"



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



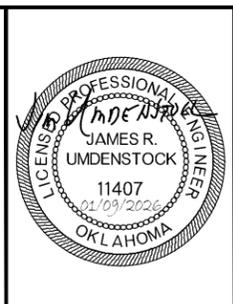
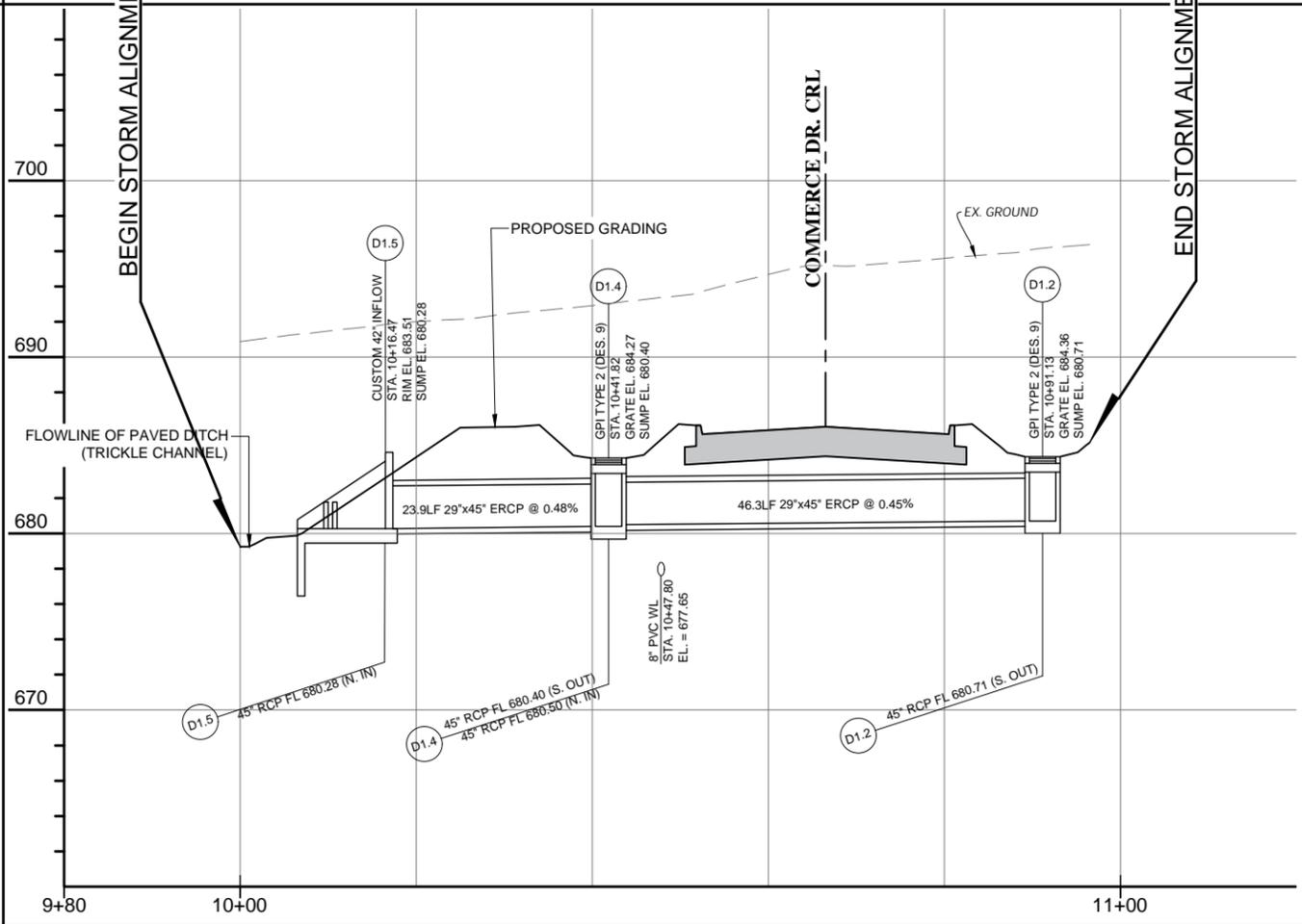
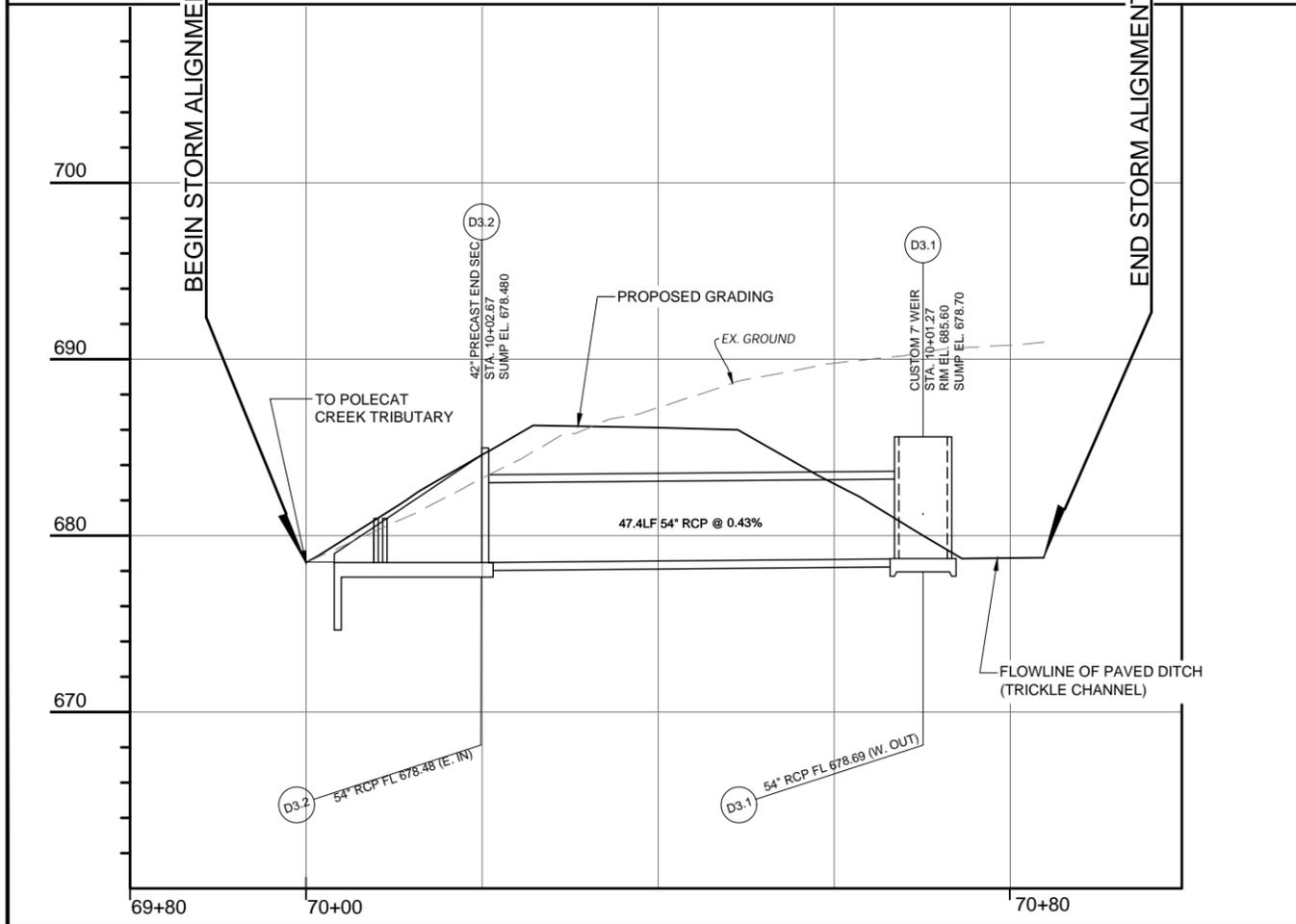
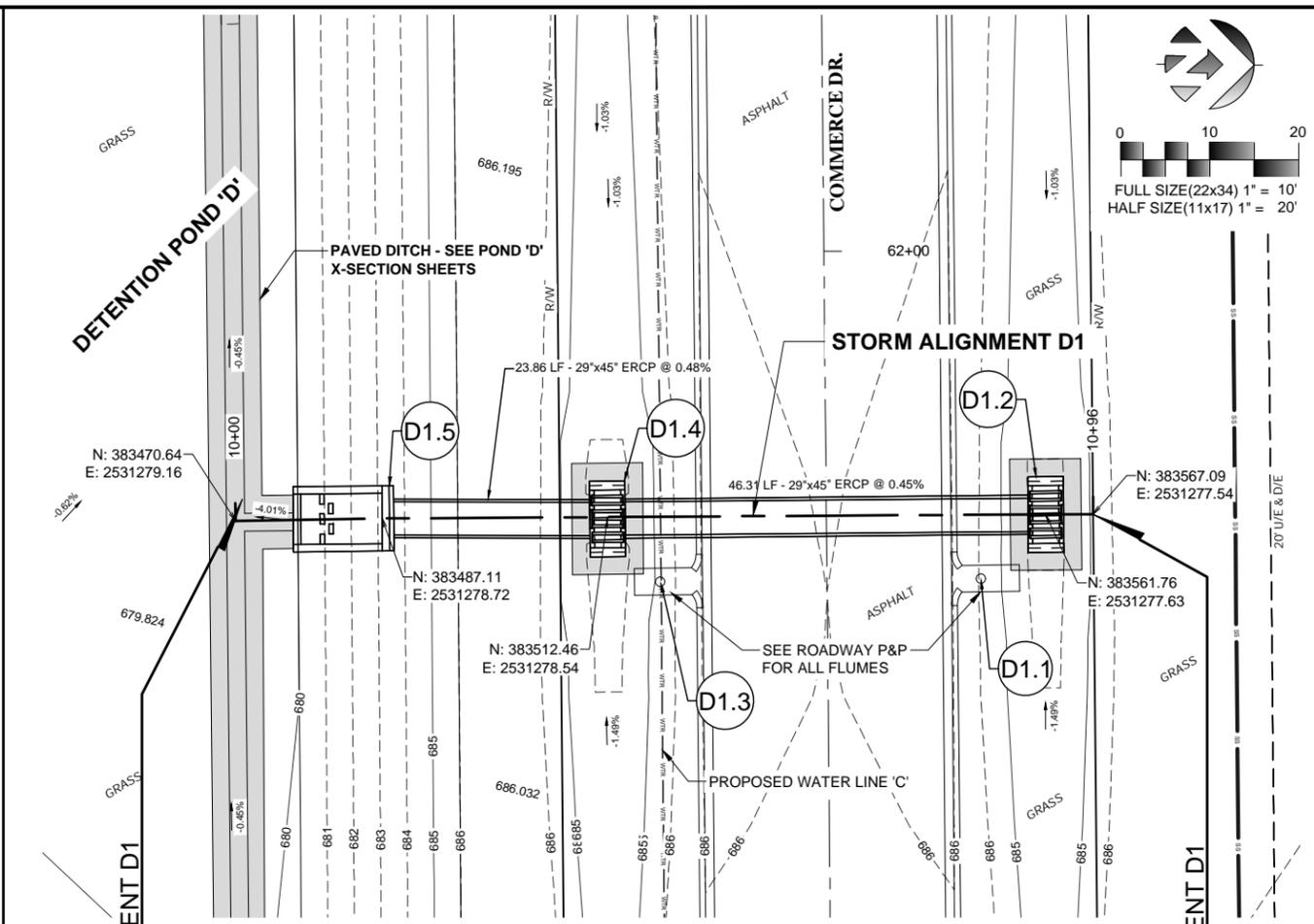
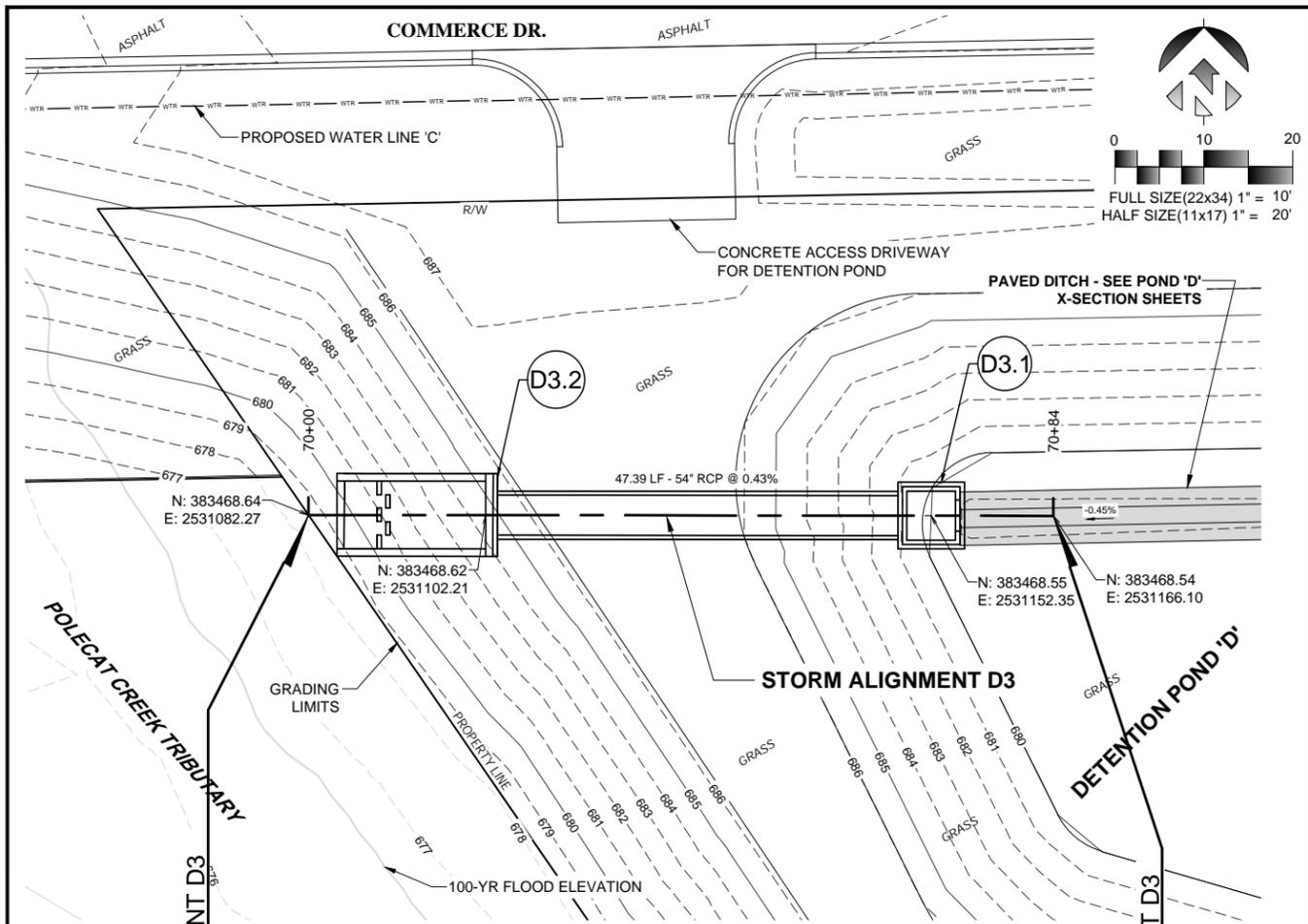
1 PLAN VIEW OF APRON
 FULL SIZE SCALE (22x34): 3/16" = 1'
 HALF SIZE SCALE (11x17): 3/32" = 1'



BENT BAR

1/9/2026 9:48:25 AM

1/9/2026 9:48:40 AM



Plans and Estimates Prepared by:

| | | | |
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| KE | KEITHLINE ENGINEERING GROUP | DATE | |
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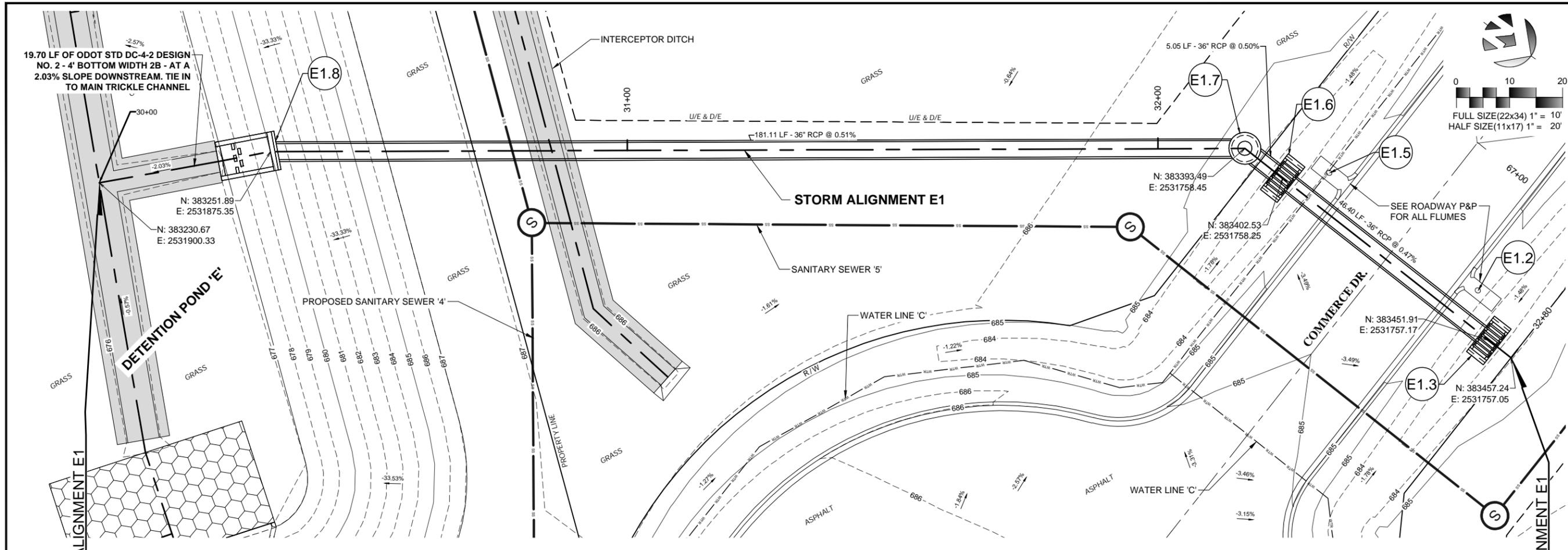
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

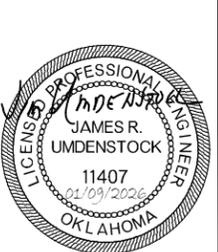
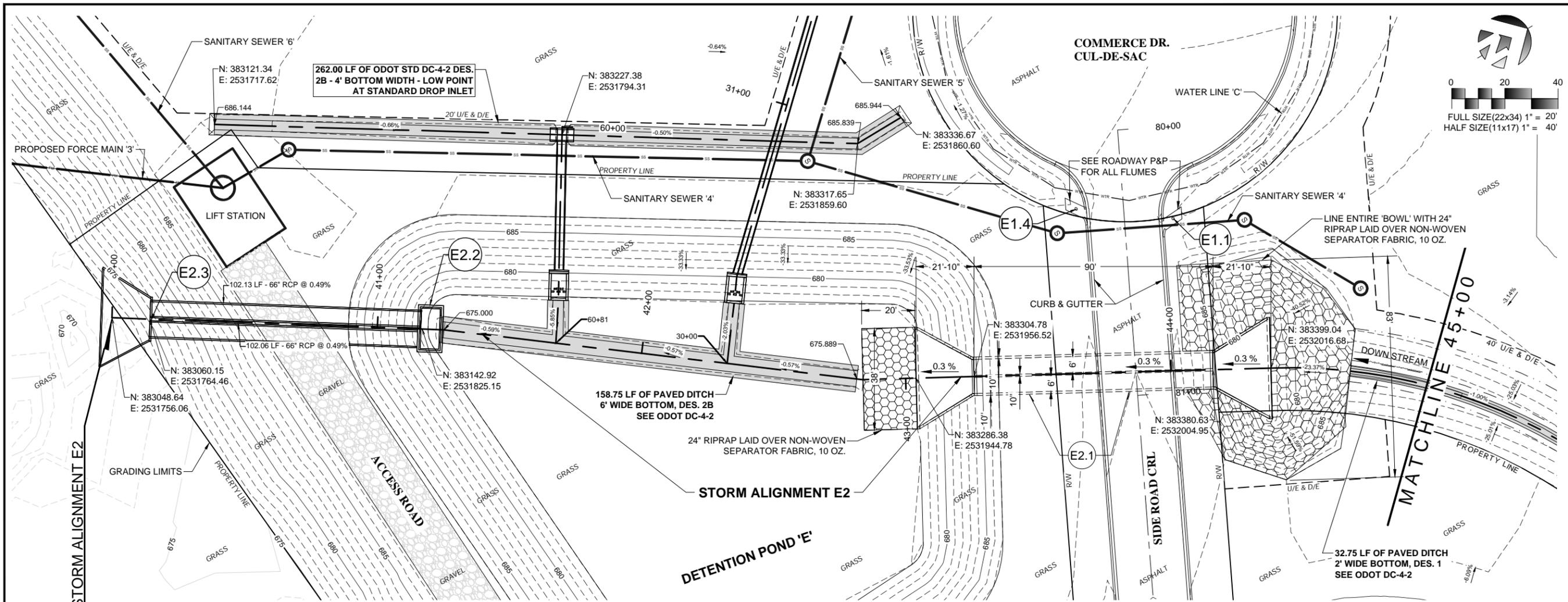
PHASE 3 (ALT. 2)
PLAN & PROFILE
STORM 'D1' &
STORM 'D3'

| | |
|----------------|---------------------|
| 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: | 26 OF 80 |
| DRAWING: | D01 |

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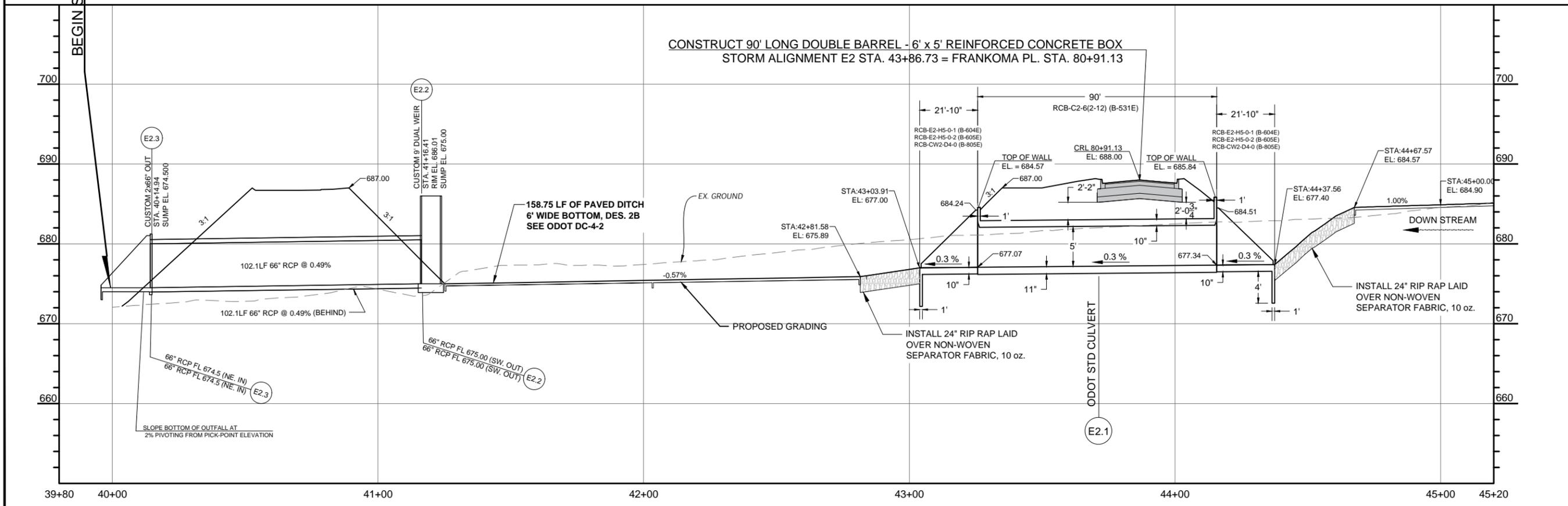
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Plans and Estimates Prepared by:

| | |
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| DATE | |
| REVISION | |

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

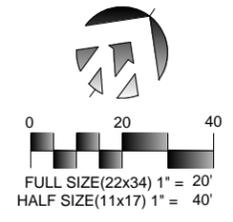
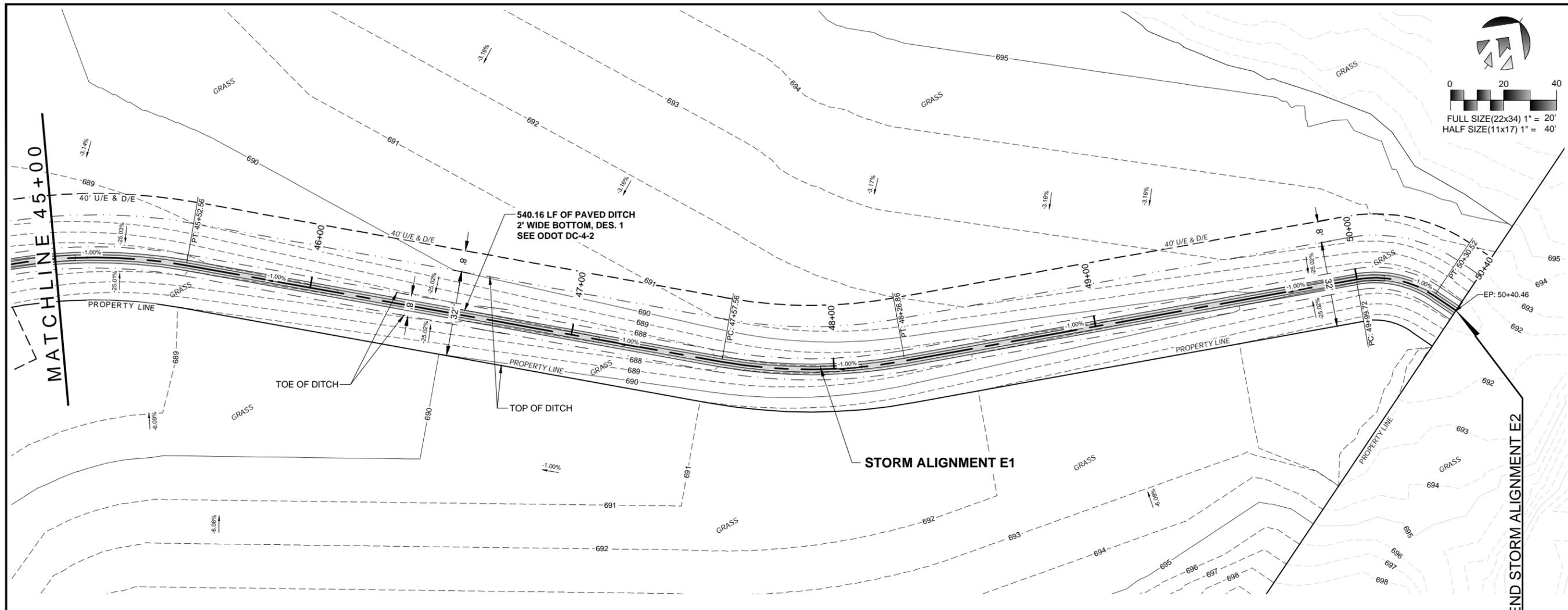


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 PLAN & PROFILE
 STORM 'E2'
 STA 40+00 TO 45+00

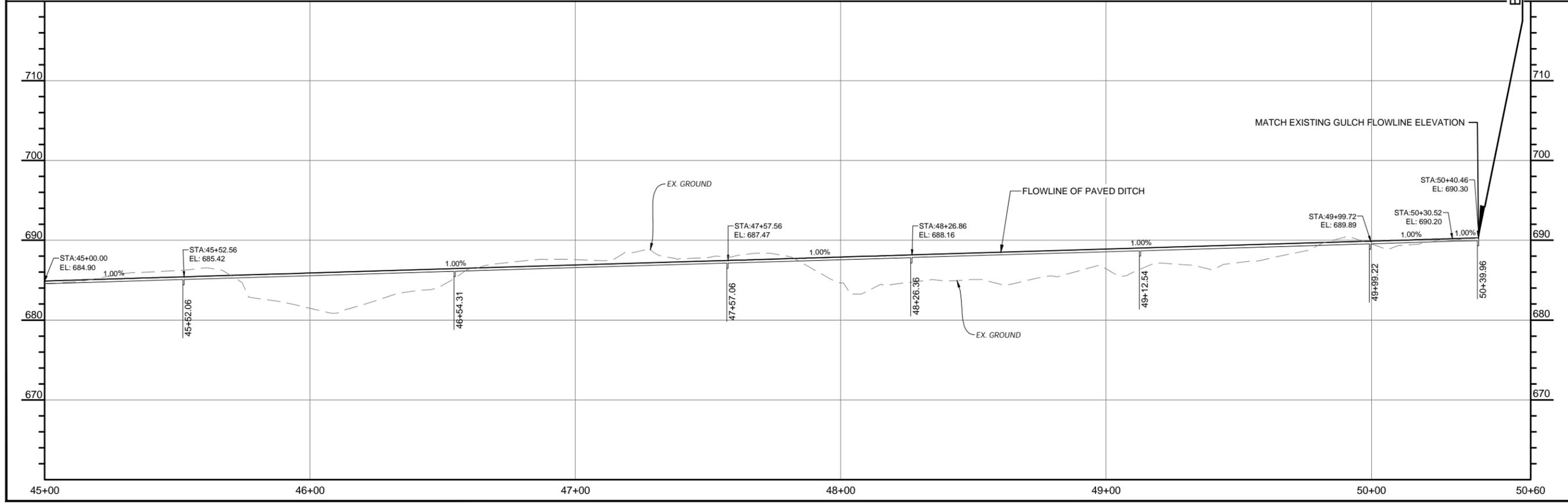
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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
| DATE | JANUARY 9, 2026 |
| SHEET: | 29 OF 80 |
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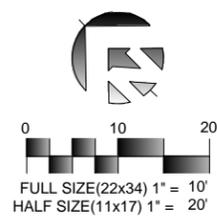
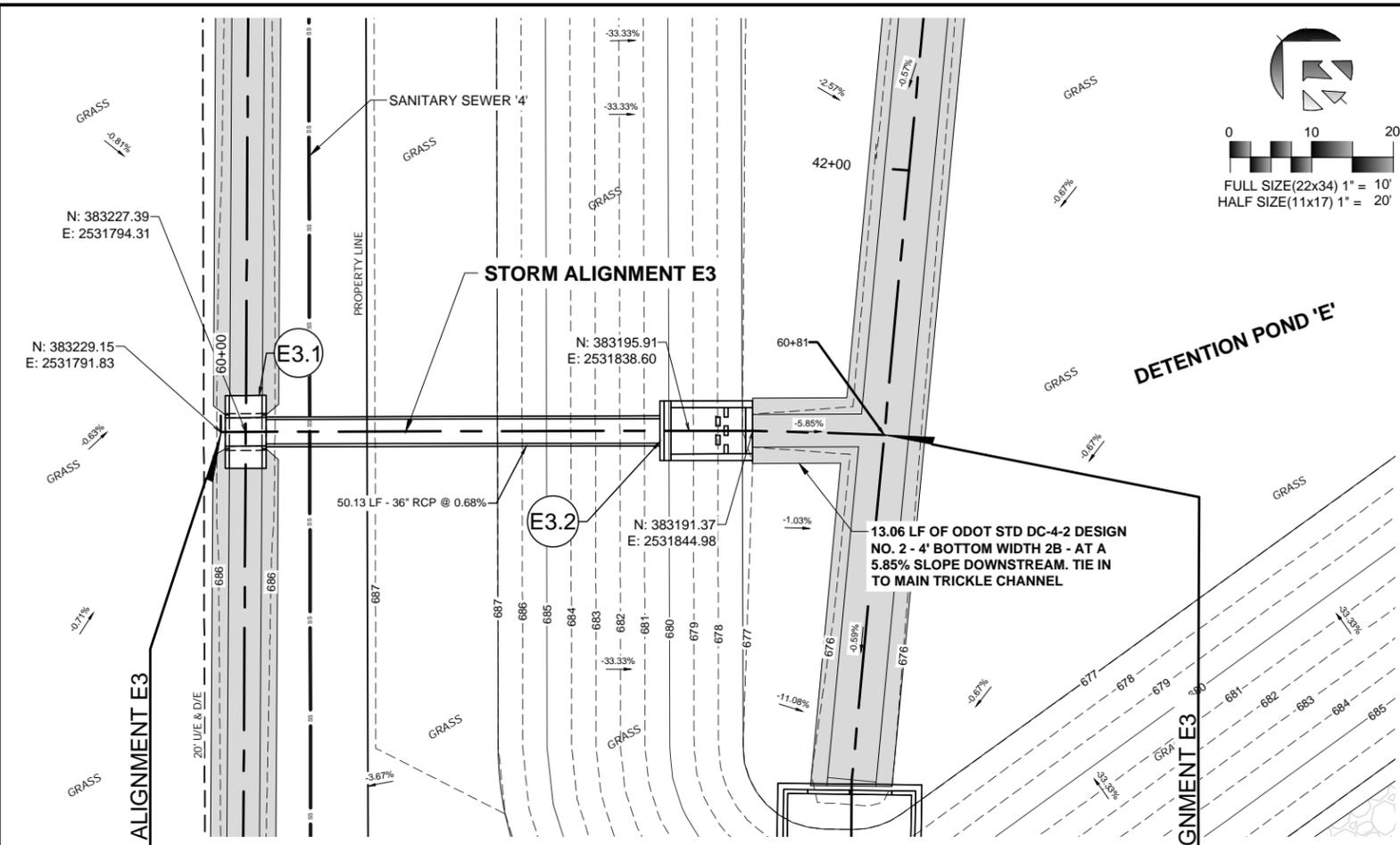


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 PLAN & PROFILE
 STORM 'E2'
 STA 45+00 TO 50+41

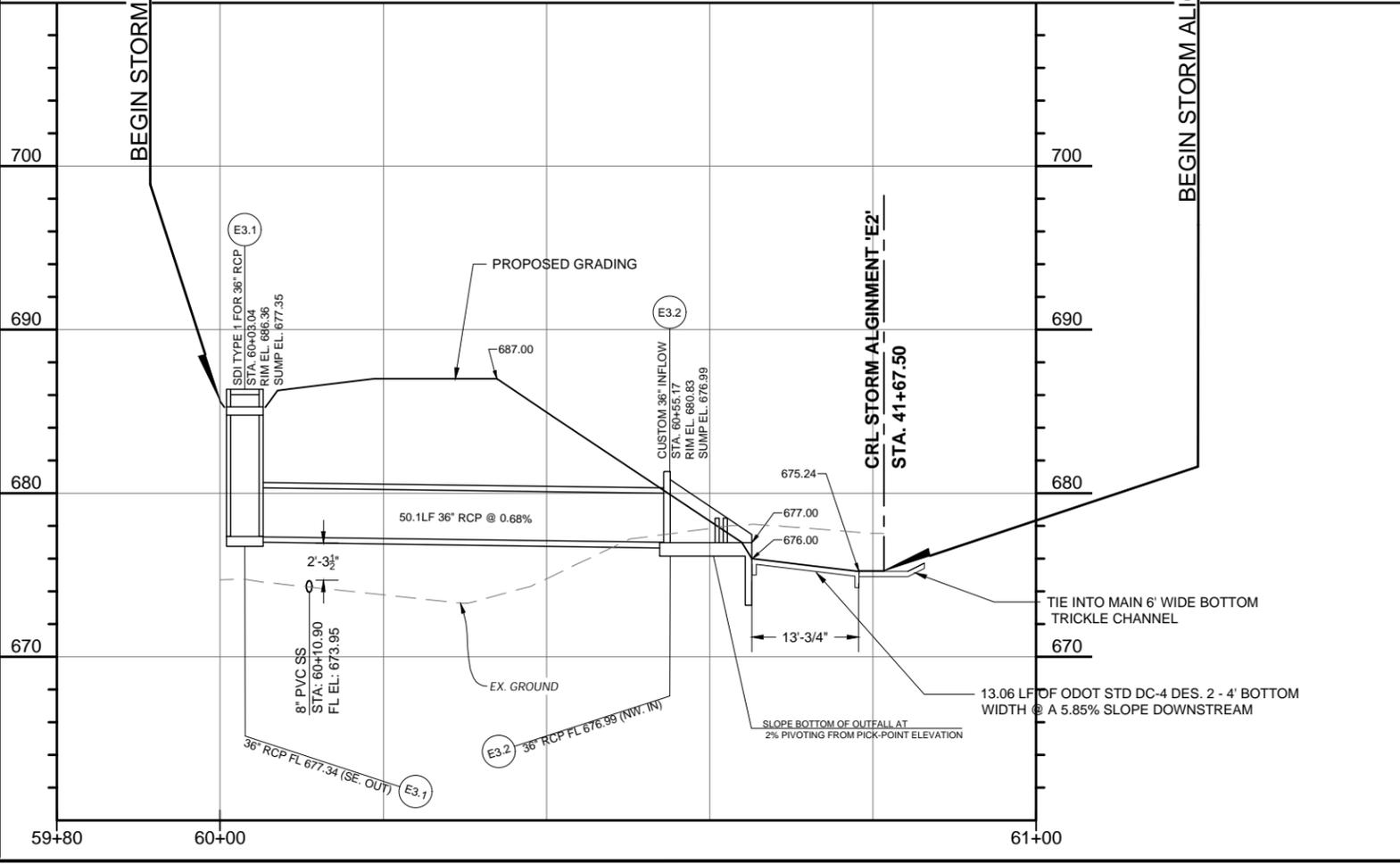
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| DRAWN | ZLM, AK, MAW (KEG) |
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| SHEET: | 30 OF 80 |
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| | | REVISION | |



ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 PLAN & PROFILE
 STORM 'E3'

| | |
|----------------|---------------------|
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| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
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| SHEET: | 31 OF 80 |
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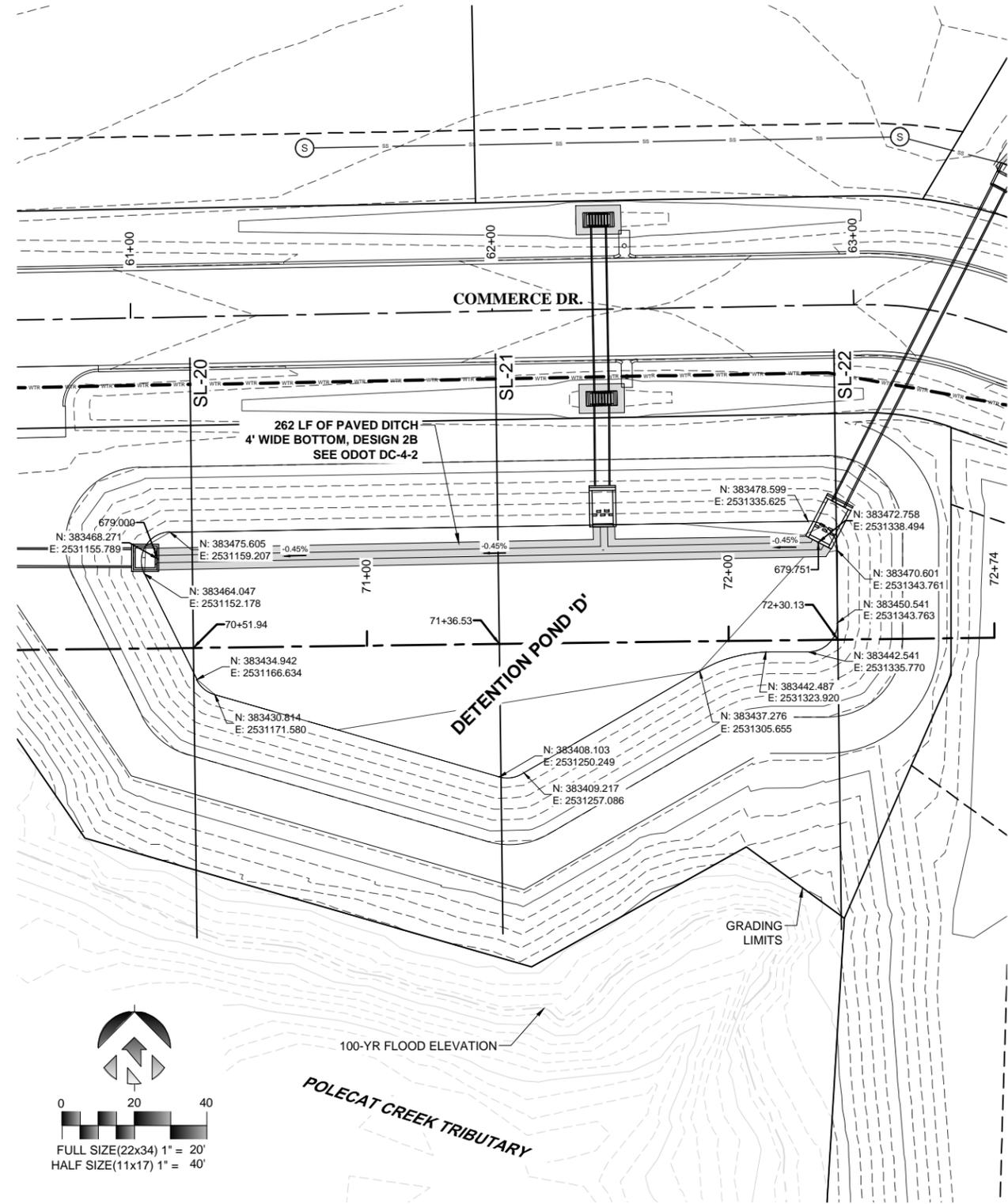
Plans and Estimates Prepared by:
KE KEITHLINE ENGINEERING GROUP
 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



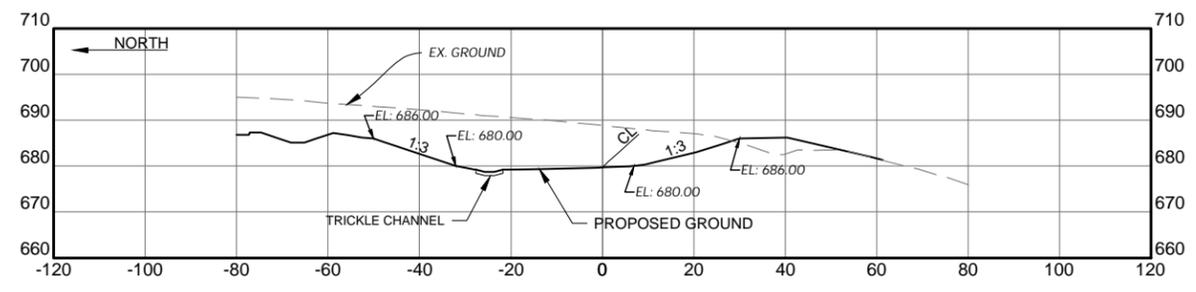
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 POND 'D'
 CROSS SECTIONS

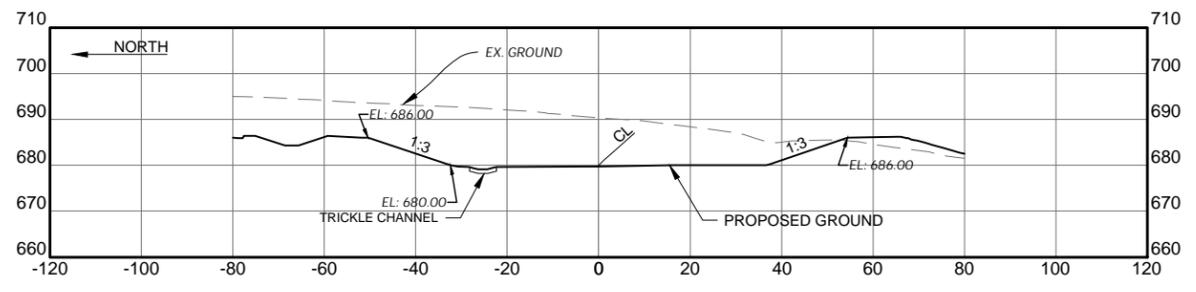
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| DESIGNED | DAK, JRJ, MAW (KEG) |
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| SHEET: | 32 OF 80 |
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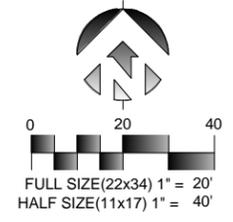
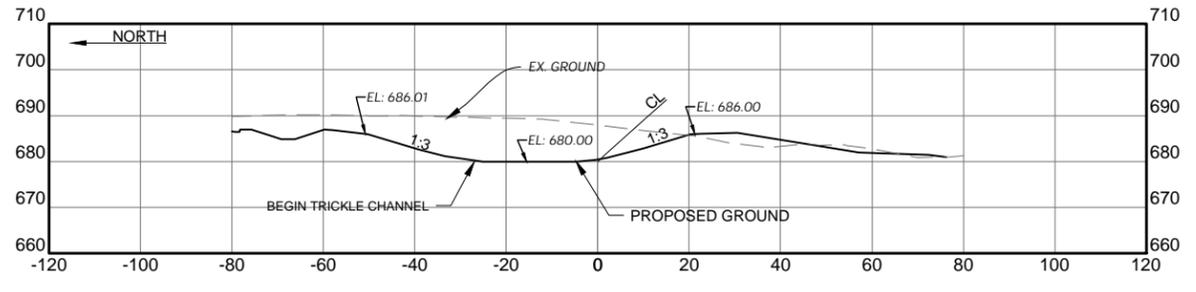
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SL-21
 71+36.53

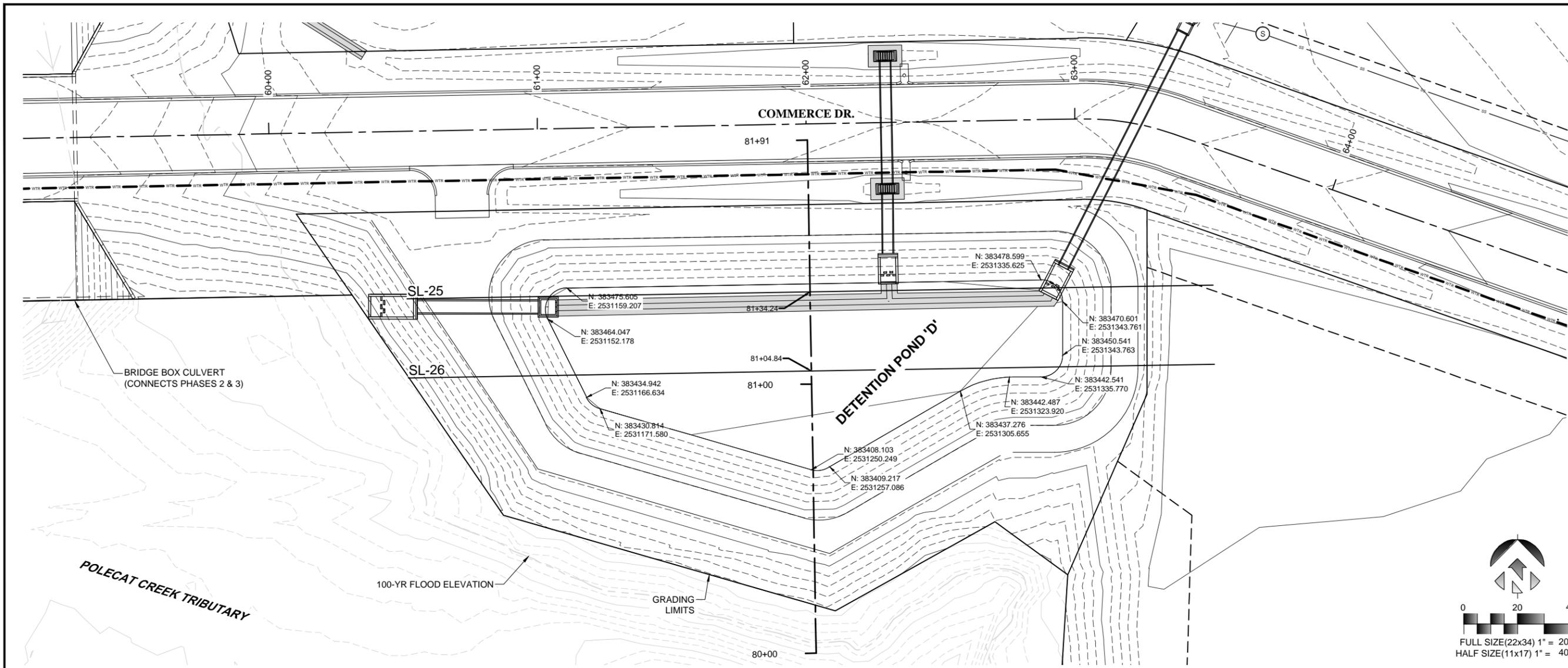


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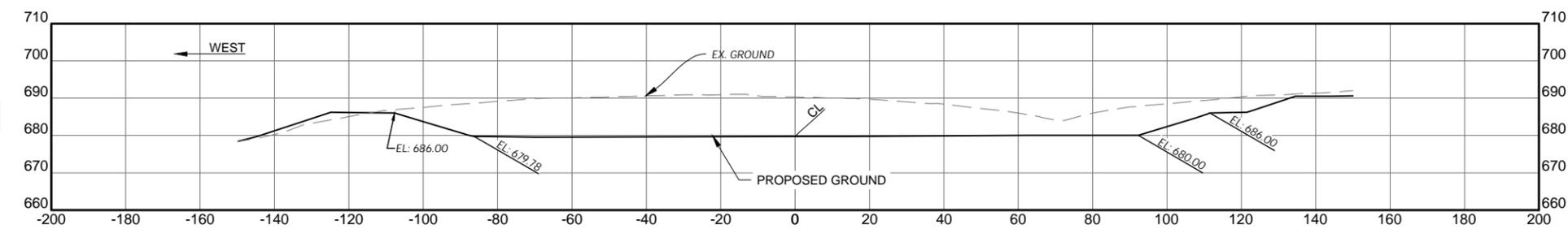
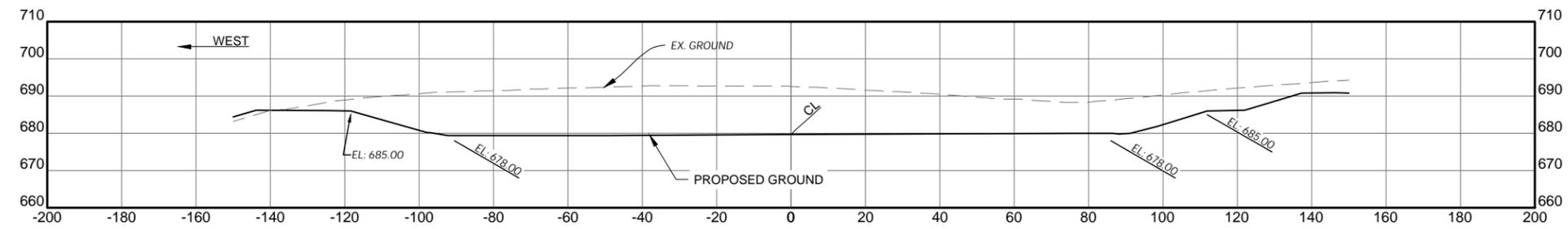
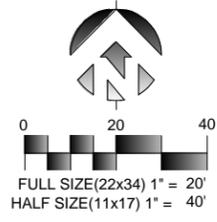
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 SCALE:

1/9/2026 9:49:20 AM



Plans and Estimates Prepared by:

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| | 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971 | BY | |
| | | REVISION | |



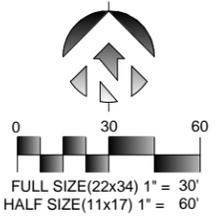
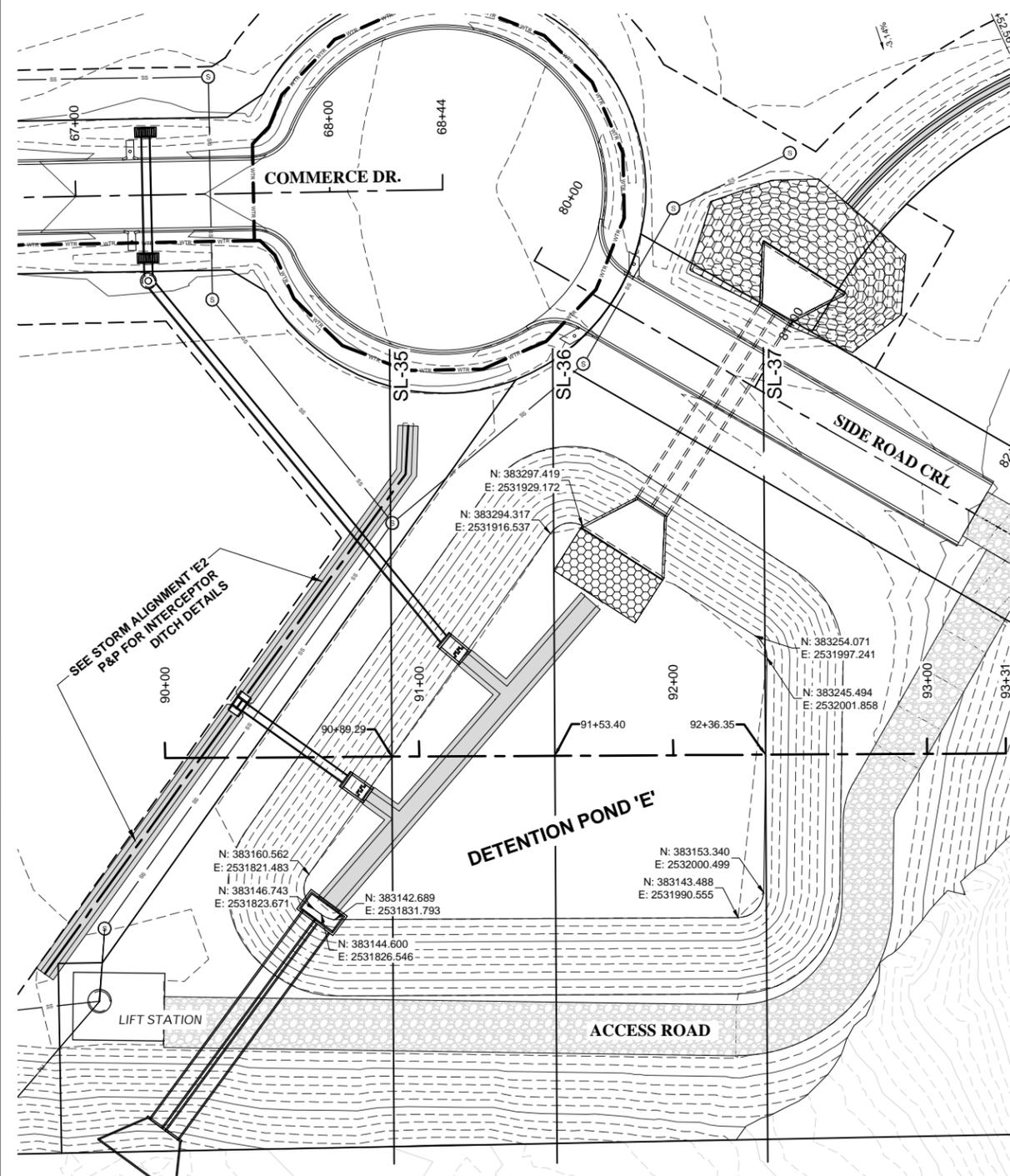
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ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

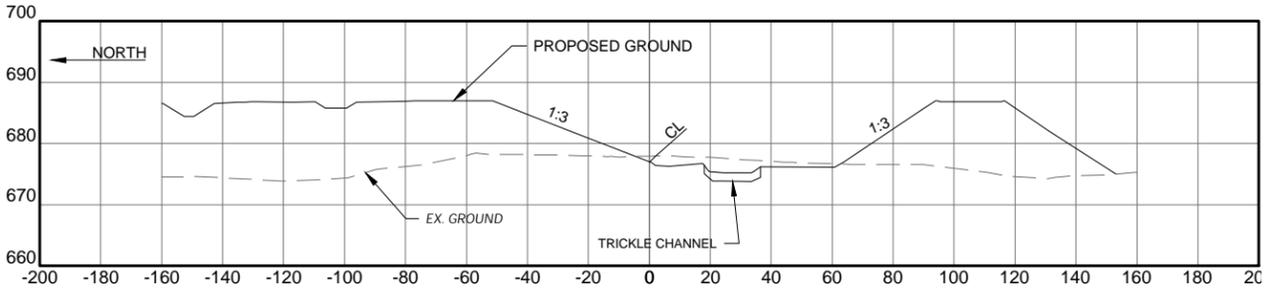
PHASE 3 (ALT. 2)
POND 'D'
CROSS SECTIONS

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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
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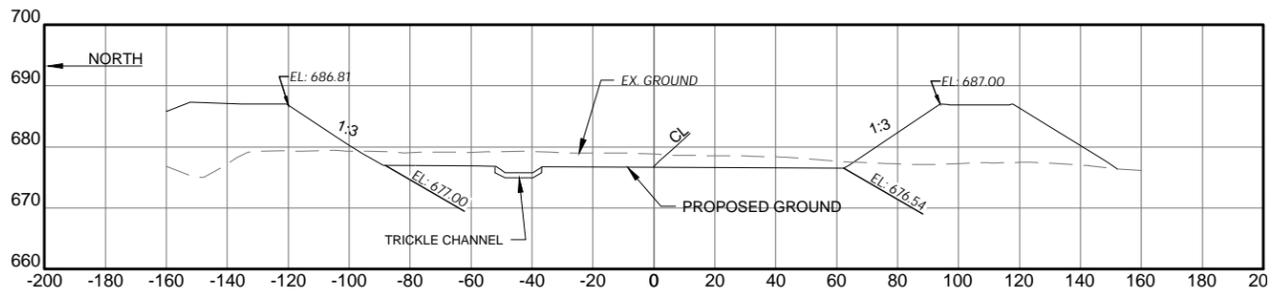
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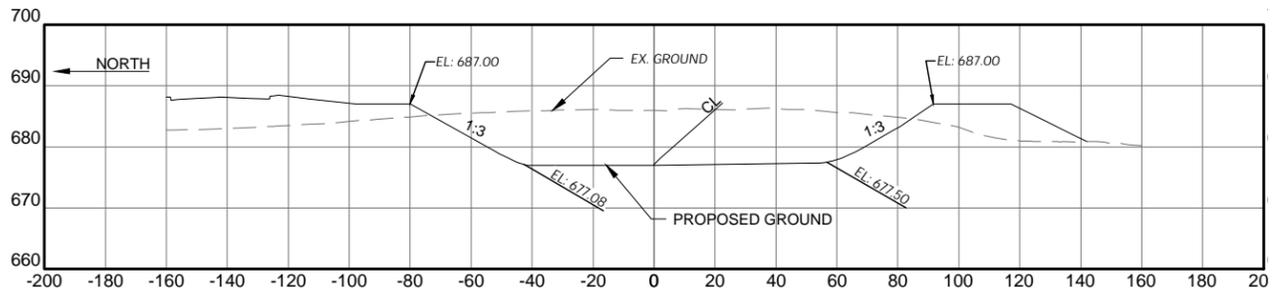
SL-35
90+89.29



SL-36
91+53.40



SL-37
92+36.35



1 PHASE 3 - POND E - NORTH SOUTH CROSS SECTIONS
SCALE:



Plans and Estimates Prepared by:

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| | | REVISION | |



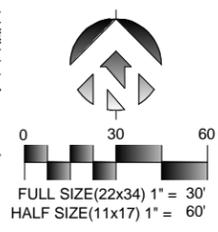
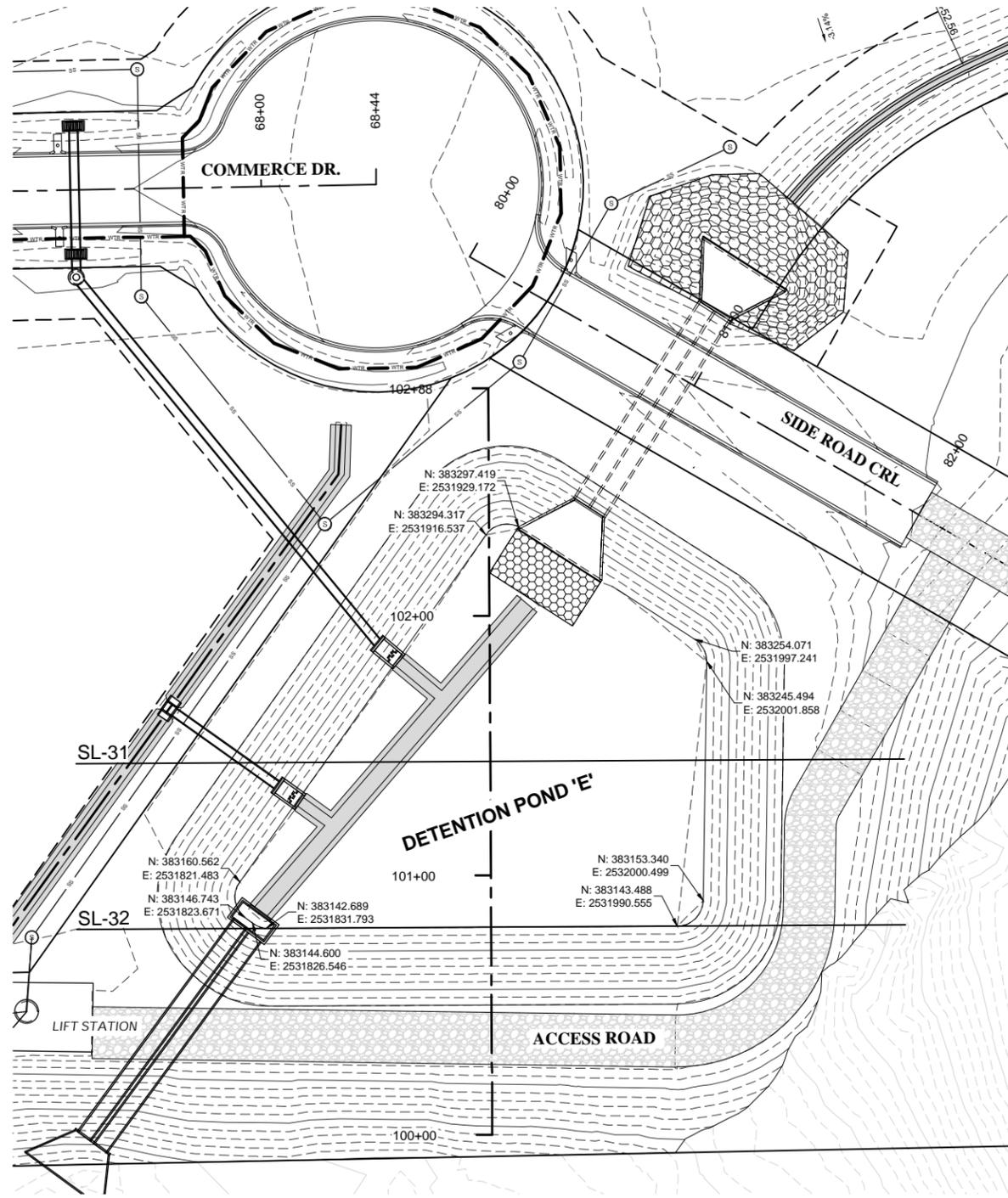
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PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

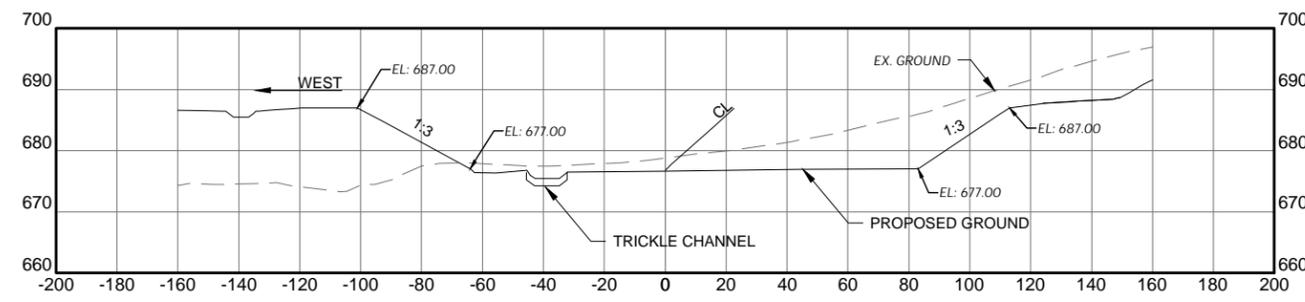
PHASE 3 (ALT. 2)
POND 'E'
CROSS SECTIONS

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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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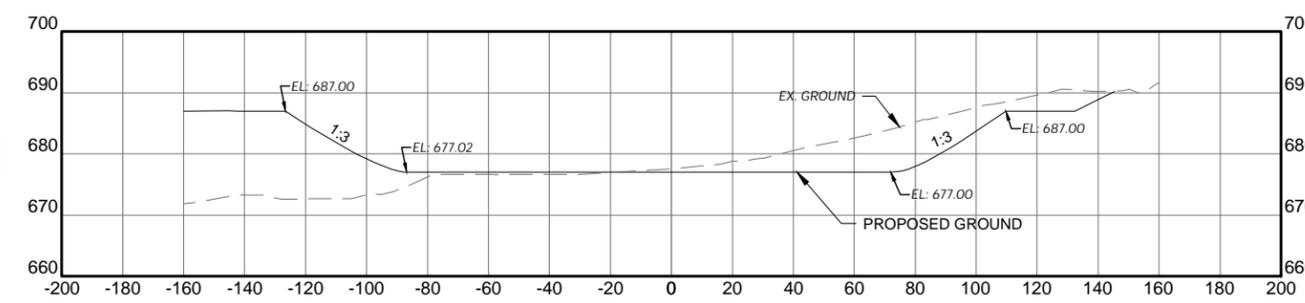
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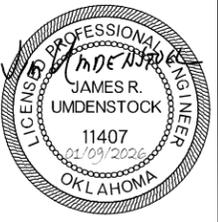
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101+43.86



SL-32
100+79.96



1 PHASE 3 - POND E - EAST WEST CROSS SECTIONS
SCALE:



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ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

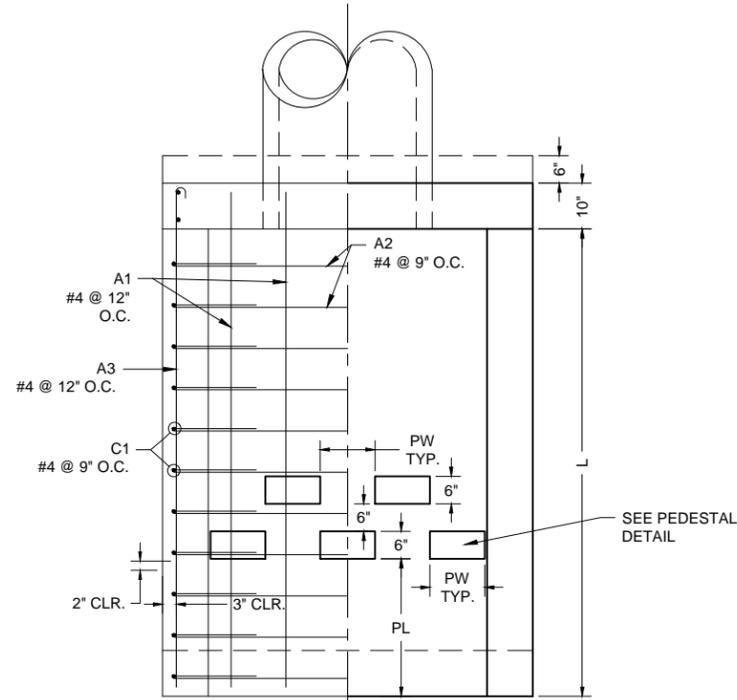
PHASE 3 (ALT. 2)
POND 'E'
CROSS SECTIONS

| | |
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| 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: | 35 OF 80 |
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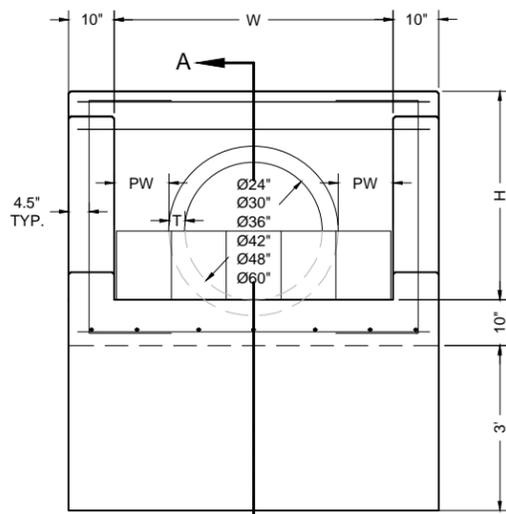
1/9/2026 9:50:06 AM

| 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 | |

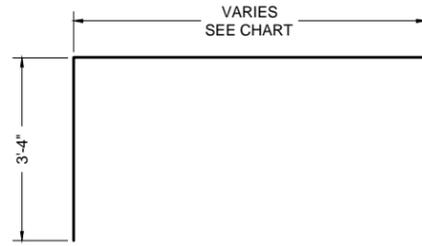
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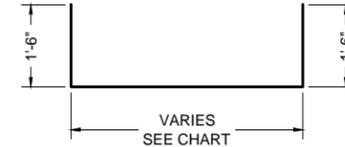
PLAN



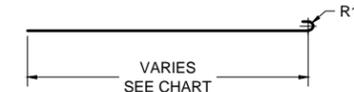
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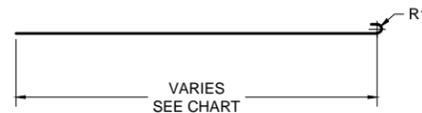
BAR A1



BAR B2



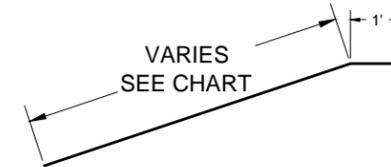
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BAR A3



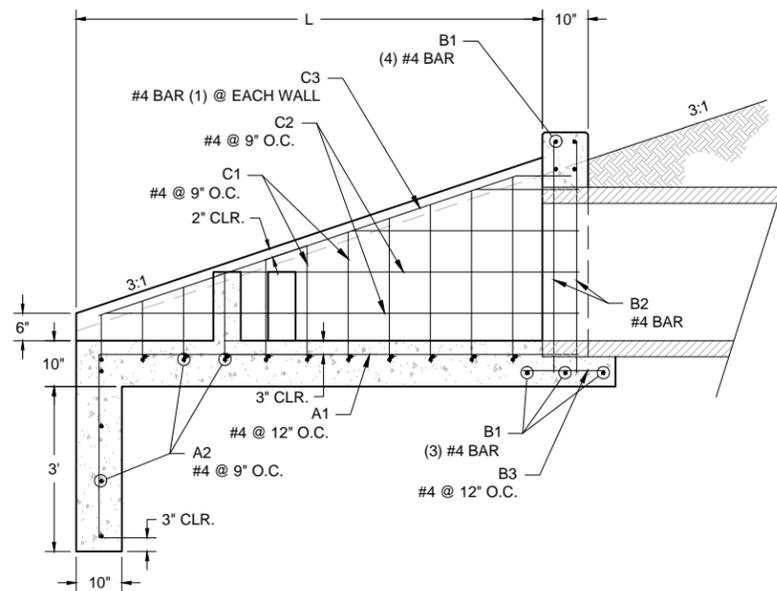
BAR C1



BAR C3

GENERAL NOTES:

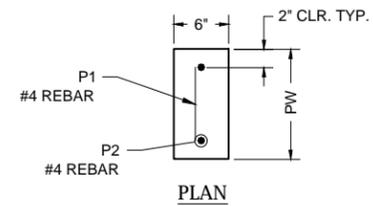
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF SAPULPA STANDARD SPECIFICATIONS.
2. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A CARBORUNDUM FINISH.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
4. MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0".



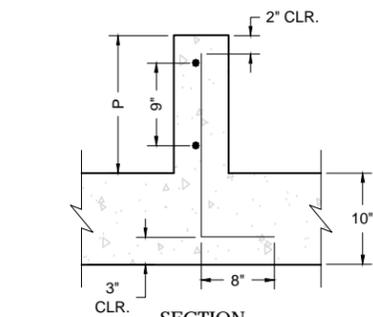
SECTION A-A

PEDESTAL DETAIL

SCALE: 1:10



PLAN



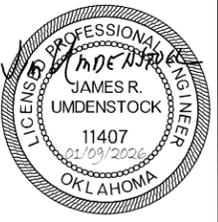
SECTION

PEDESTAL DETAIL

SCALE: 1:10

1/9/2026 9:50:19 AM

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



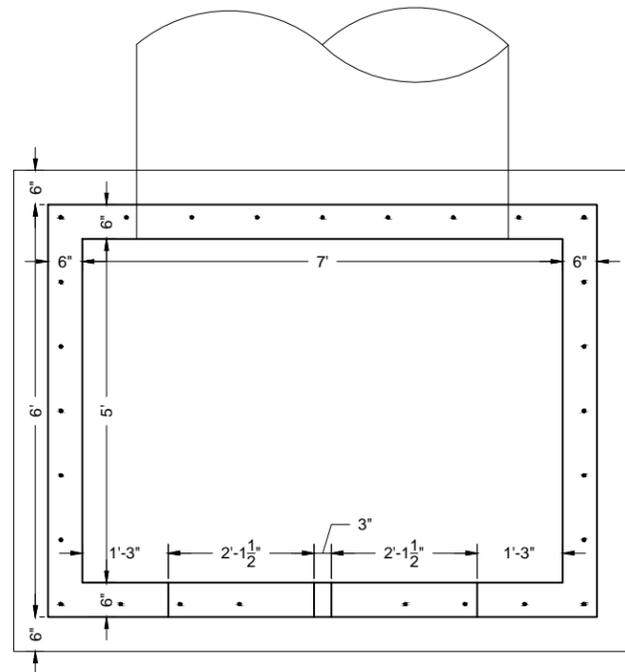
Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
 8554 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7911
 DATE: _____ BY: _____ REVISION: _____



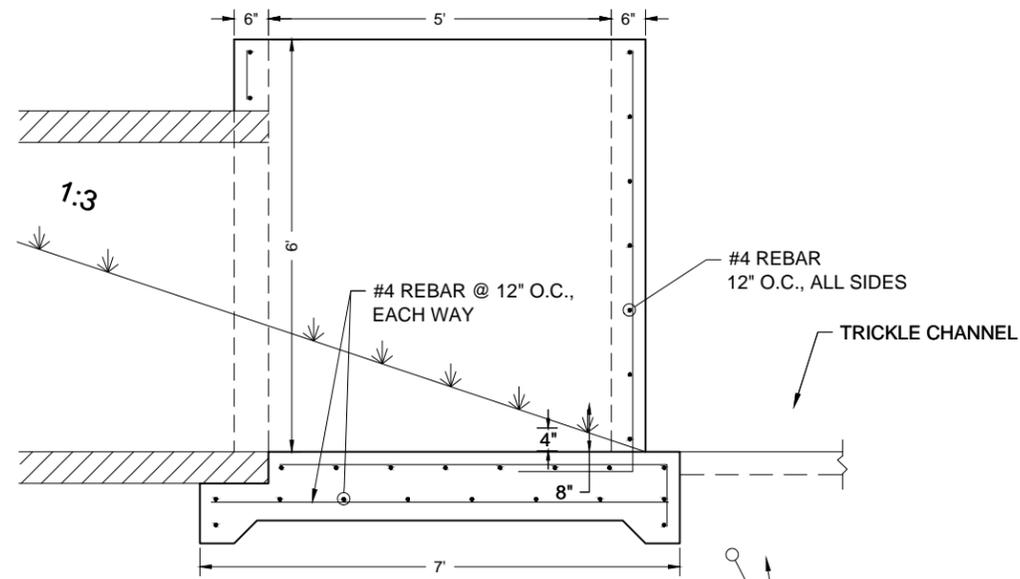
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 SPECIAL OUTFALL
 STRUCTURES

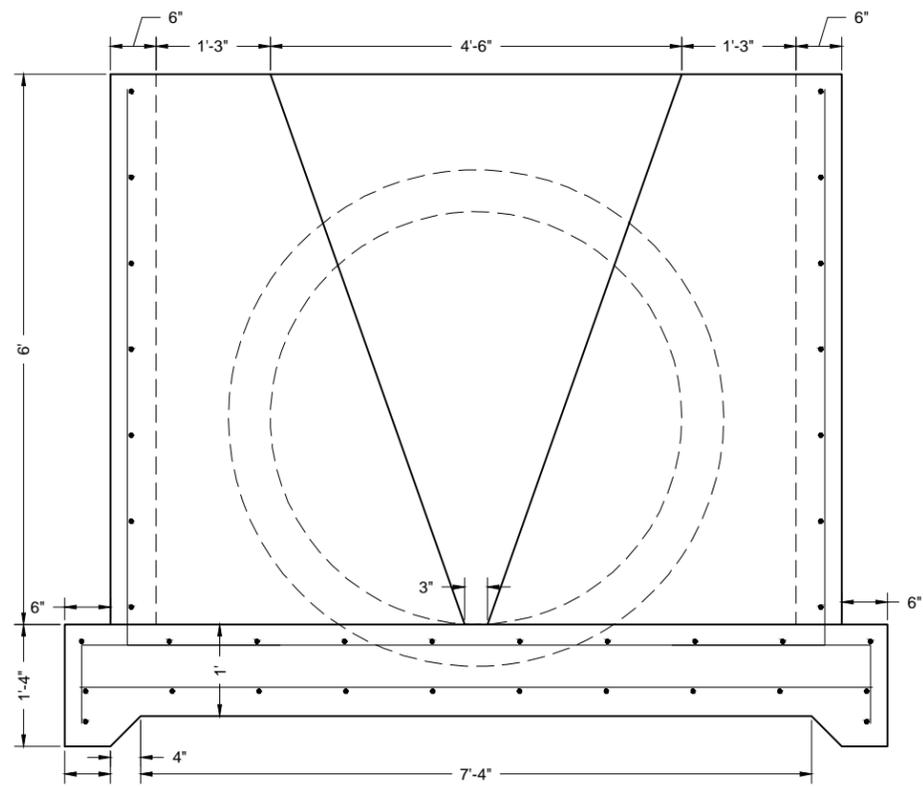
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|----------------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
| DATE: | JANUARY 9, 2026 |
| SHEET: | 36 OF 80 |
| DRAWING: | D11 |



1 POND D - PLAN VIEW
SCALE: 3/4"=1'-0"



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



4 PHASE 1 - DETENTION POND 'D' WEIR SHAPE DETAIL
SCALE: 1"=1'-0"

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".

| POND D WEIR QUANTITIES | | |
|------------------------|------------|-------------|
| | CONC. (CY) | REIN. (LBS) |
| WALLS | 2.20 | 267.20 |
| FOOTING | 2.61 | 334.08 |
| TOTAL | 4.81 | 601.28 |



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



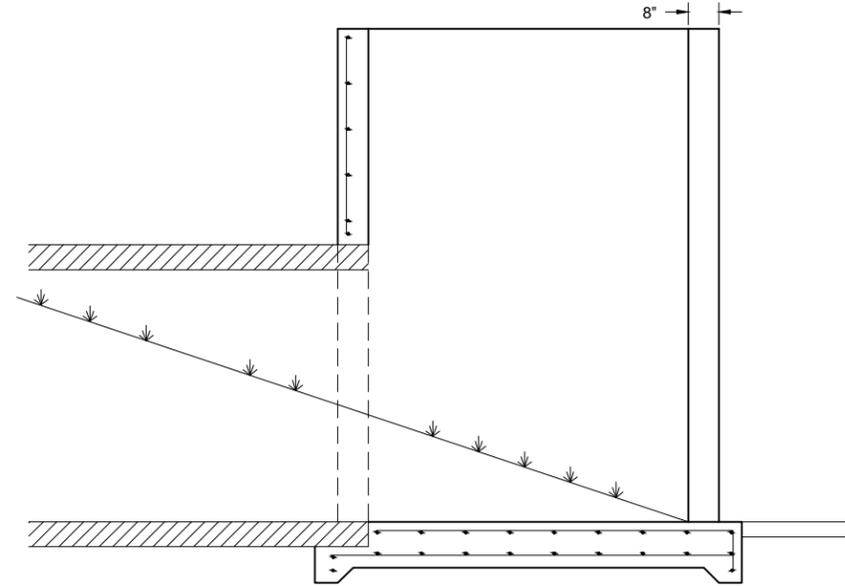
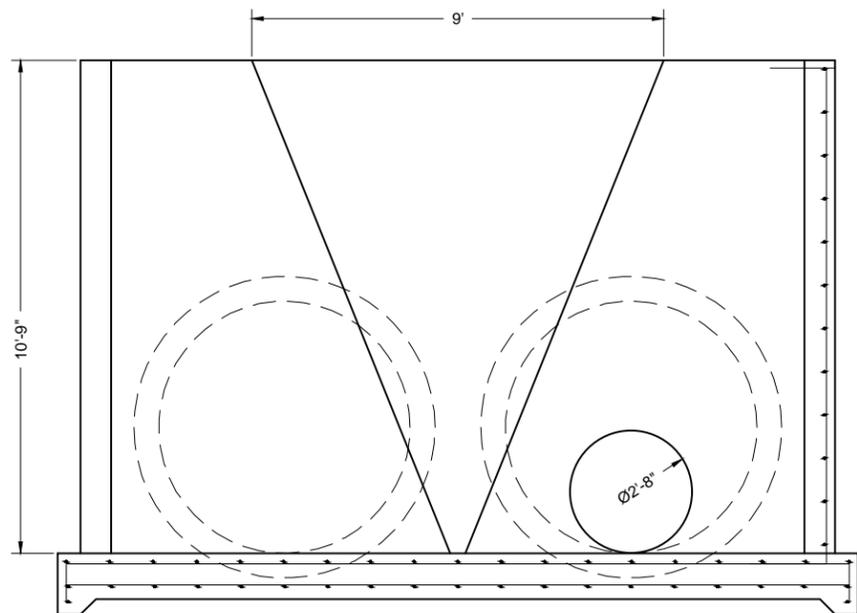
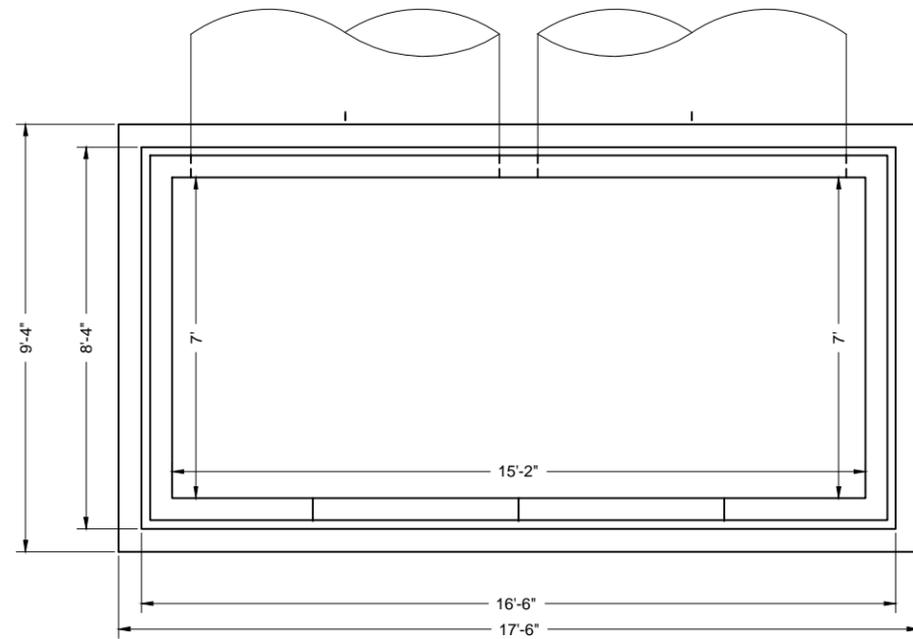
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 SPECIAL INLET
 V-NOTCH WEIR
 POND 'D'

| | |
|----------------|---------------------|
| 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: | 37 OF 80 |
| DRAWING: | D12 |

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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".

| POND E WEIR QUANTITIES | | |
|------------------------|------------|-------------|
| | CONC. (CY) | REIN. (LBS) |
| WALLS | 9.52 | 628.28 |
| FOOTING | 6.50 | 538.46 |
| TOTAL | 16.02 | 1166.74 |



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 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 SPEICAL INLET
 V-NOTCH WEIR
 POND 'E'

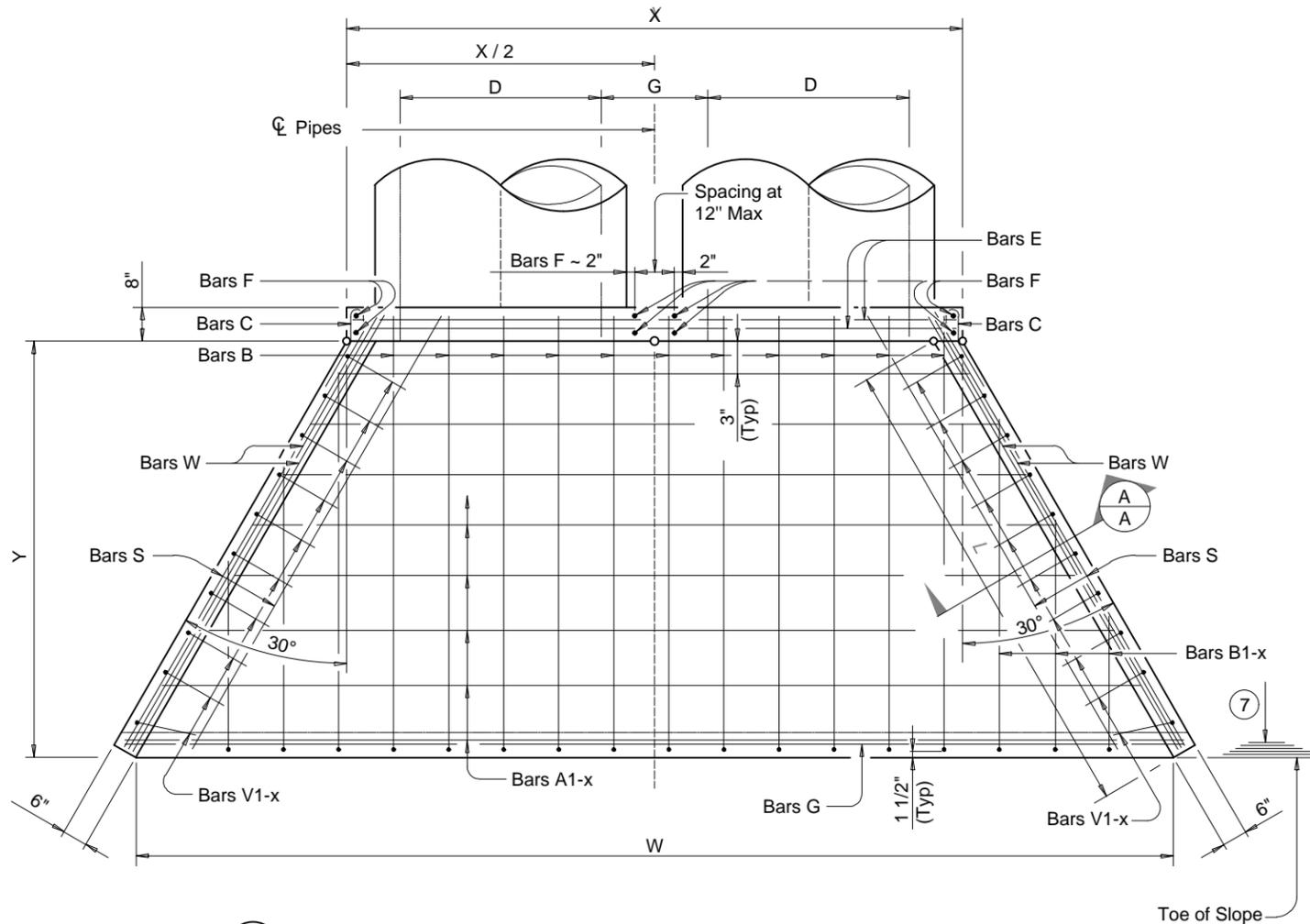
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|-----------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |

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

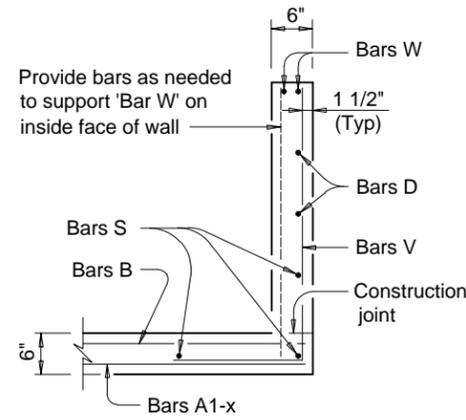
SHEET: 38 OF 80

DRAWING: D13

1/9/2026 9:50:24 AM



2 HEADWALL PLAN VIEW
SCALE: N.T.S.



1 SECTION A-A
SCALE: N.T.S.

| TABLE OF REINFORCING STEEL | | | |
|----------------------------|------|-------|-----|
| BAR | SIZE | SPA | NO. |
| A | #4 | 1'-0" | - |
| B | #3 | 1'-6" | - |
| C | #4 | 1'-0" | - |
| D | #3 | 1'-0" | - |
| E | #5 | - | 4 |
| F | #5 | - | - |
| G | #3 | - | 2 |
| S | #4 | - | 6 |
| V | #4 | 1'-0" | - |
| W | #5 | - | 4 |

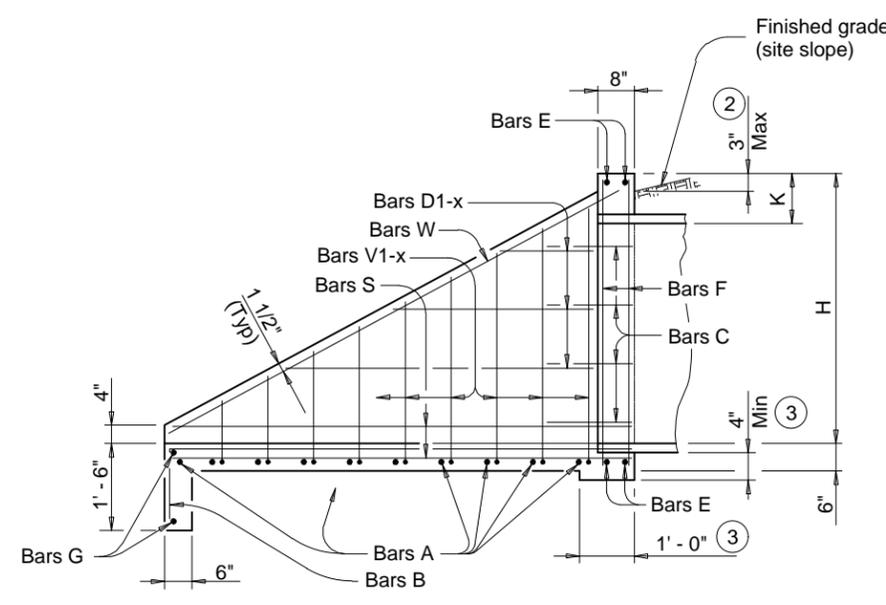
| TABLE OF DIMENSIONS AND QUANTITIES FOR DUAL 66" RCP HEADWALL | | | | | | | | | |
|--|---------|------------|--------|------------|-------|-------|-------|-------------|-----------|
| DIAMETER OF PIPE (D) | W | X | Y | L | G | K | H | Reinf (lbs) | Conc (CY) |
| 66" | 36'-10" | 16'-7 1/2" | 18'-6" | 21'-4 1/4" | 3'-3" | 1'-3" | 6'-9" | 1053 | 14 |

- Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
- For vehicle safety, construct curbs no more than 3" above finished grade. Reduce curb heights, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- Provide a 1'-0" footing as shown where required to maintain 4" minimum cover for pipes.
- Dimensions shown are usual and maximum.
- Quantities shown are for one structure end only (one headwall).
- Min Length = $6" + 3" \times ((12 \times H - 7) / (12 \times L))$
Max Length = $12 \times H - 3" \times ((12 \times H - 7) / (12 \times L)) - 1"$
- Lengths of wings based on SL:1 slope along this line.

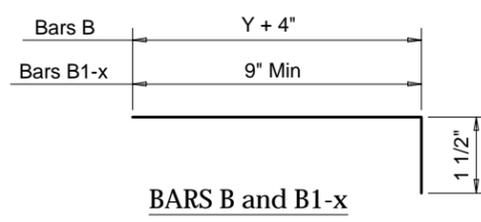
MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide Class C concrete ($f'_c = 3,600$ psi).

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Do not mount bridge rails of any type directly to these culvert headwalls.
This standard may not be used for wall heights, H, exceeding the values shown.

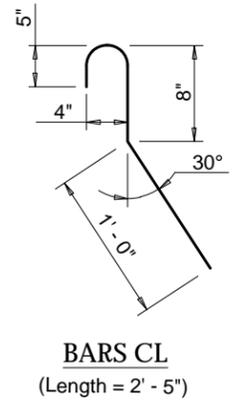
Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.



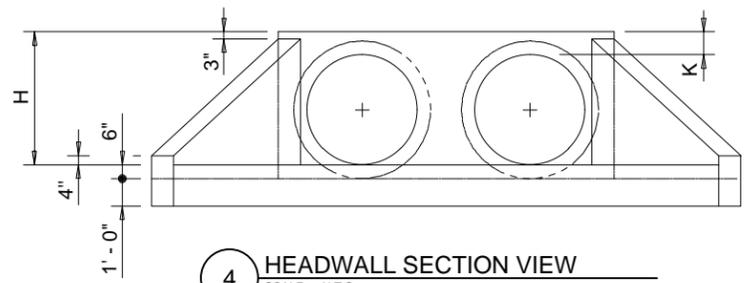
3 HEADWALL PROFILE OF WING-WALL
SCALE: N.T.S.



BARS B and B1-x



BARS CL
(Length = 2' - 5")



4 HEADWALL SECTION VIEW
SCALE: N.T.S.



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



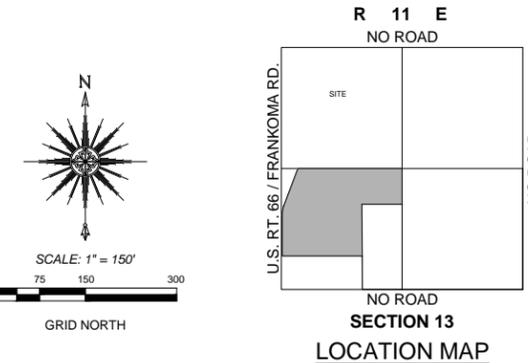
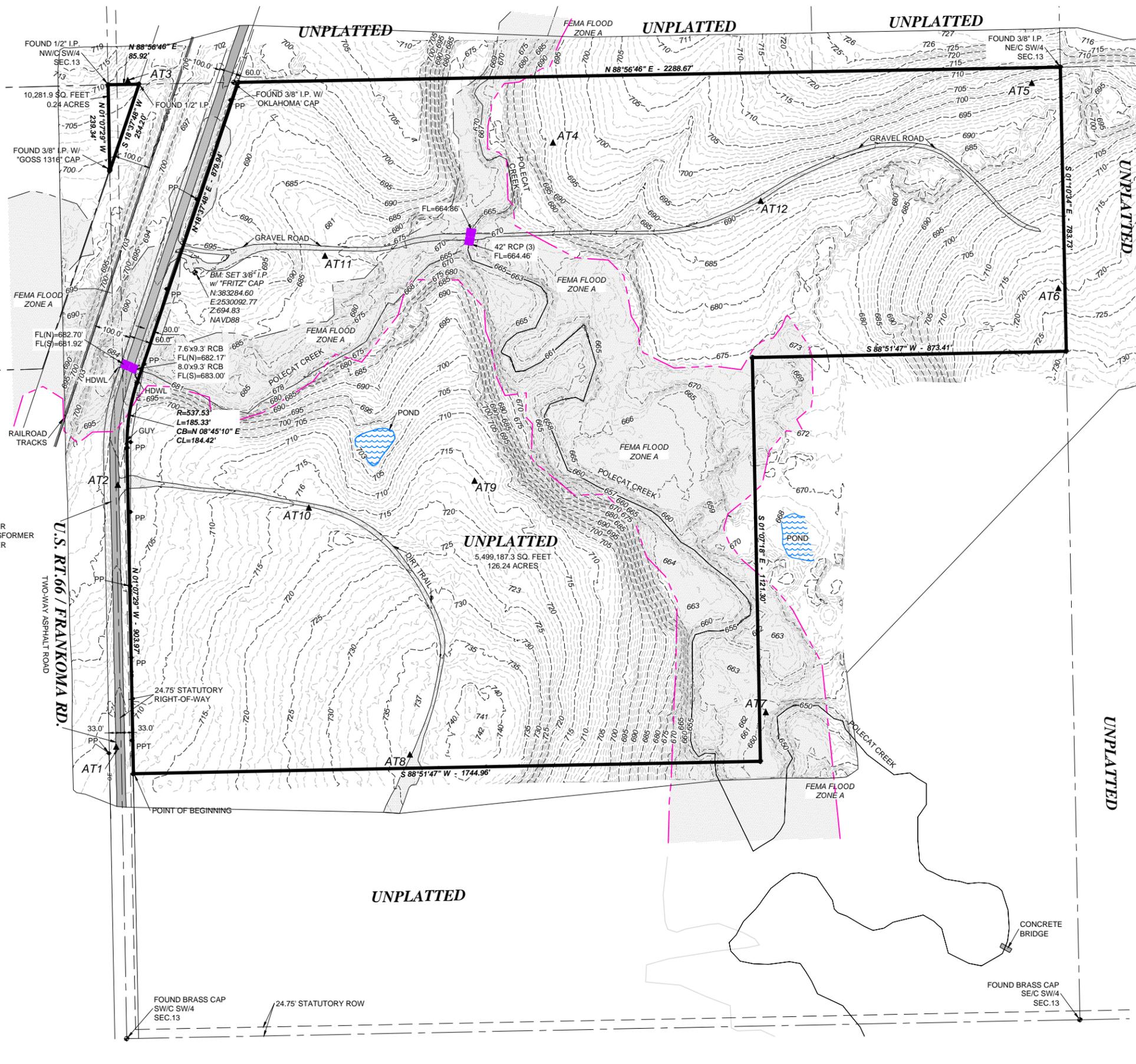
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
SPECIAL DUAL 66
INCH HEADWALL

| | |
|----------------|---------------------|
| 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 | 39 OF 80 |
| DRAWING | D14 |

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
- op/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

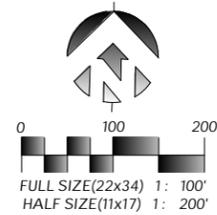
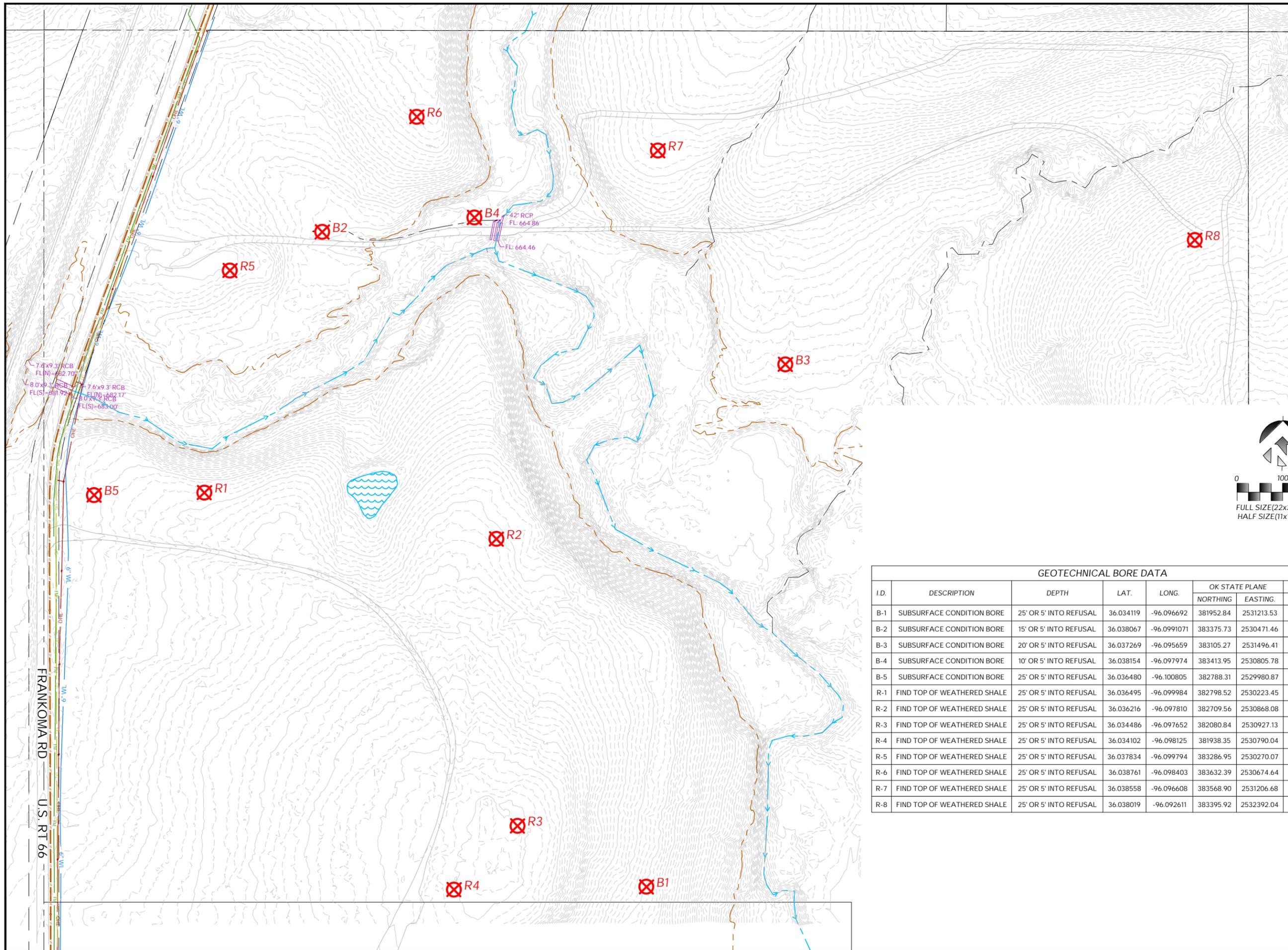


PLAT OF SURVEY w/ TOPO
 PART OF THE SW/4 OF SEC.13, T18N, R11E
 TBD, PARCEL ID:190014678, FRANKOMA RD., SAPULPA, CREEK COUNTY, OK 74066

| | | |
|---------------|--------------------|--|
| 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 |

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1/9/2026 9:50:32 AM



| GEOTECHNICAL BORE DATA | | | | | | | |
|------------------------|-----------------------------|------------------------|-----------|-------------|----------------|------------|--------|
| I.D. | DESCRIPTION | DEPTH | LAT. | LONG. | OK STATE PLANE | | NAVD88 |
| | | | | | NORTHING | EASTING. | ELEV. |
| 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 | BY | | DATE | |
| | | REVISION | | | |

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



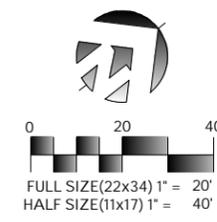
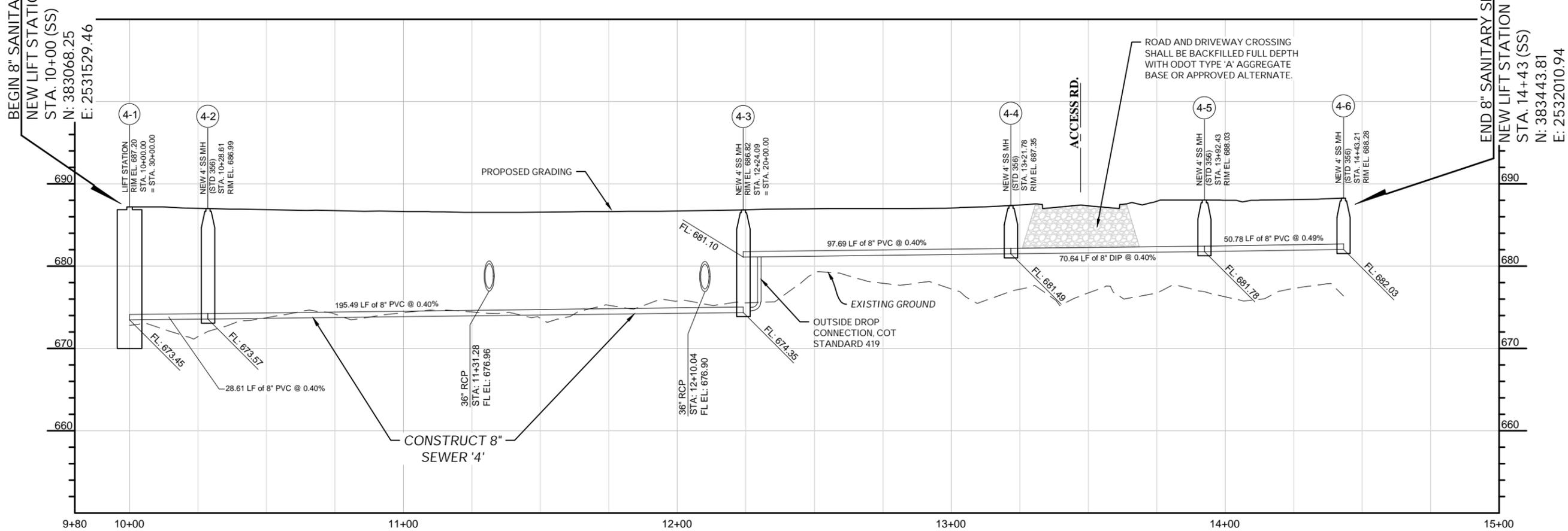
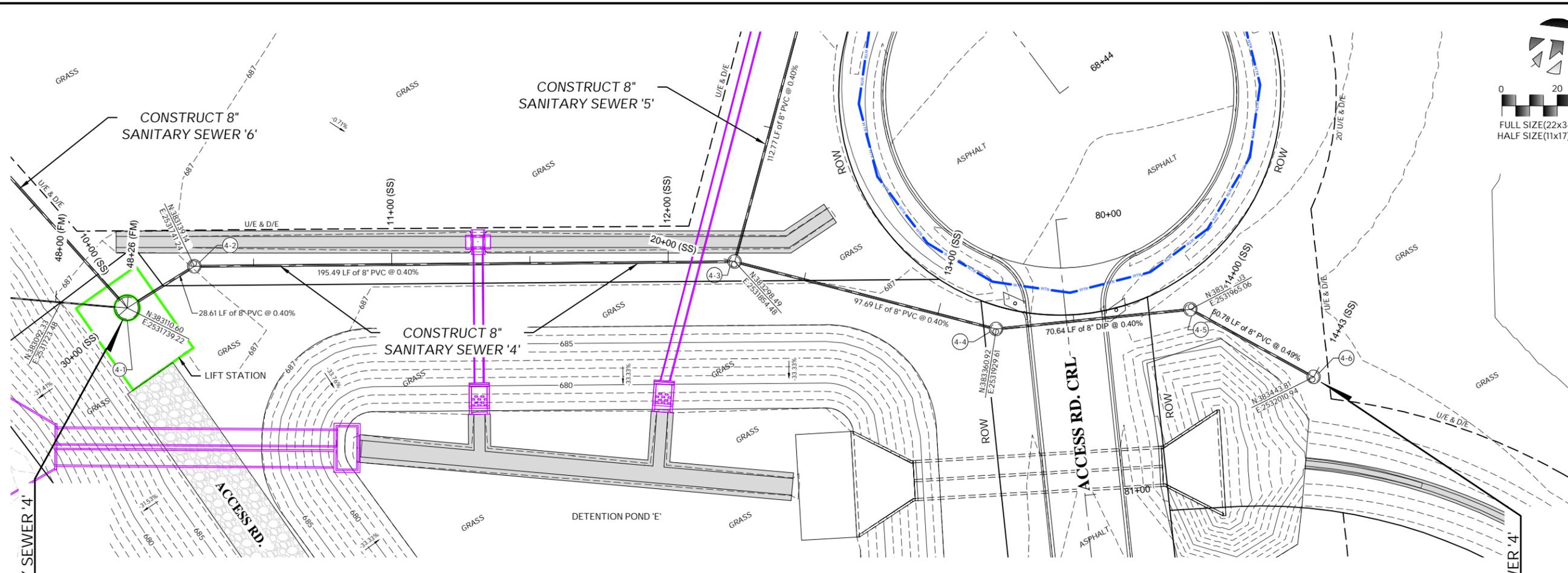
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

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: | 41 OF 80 |
| DRAWING: | V02 |

1/9/2026 9:50:52 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 | |



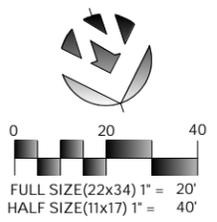
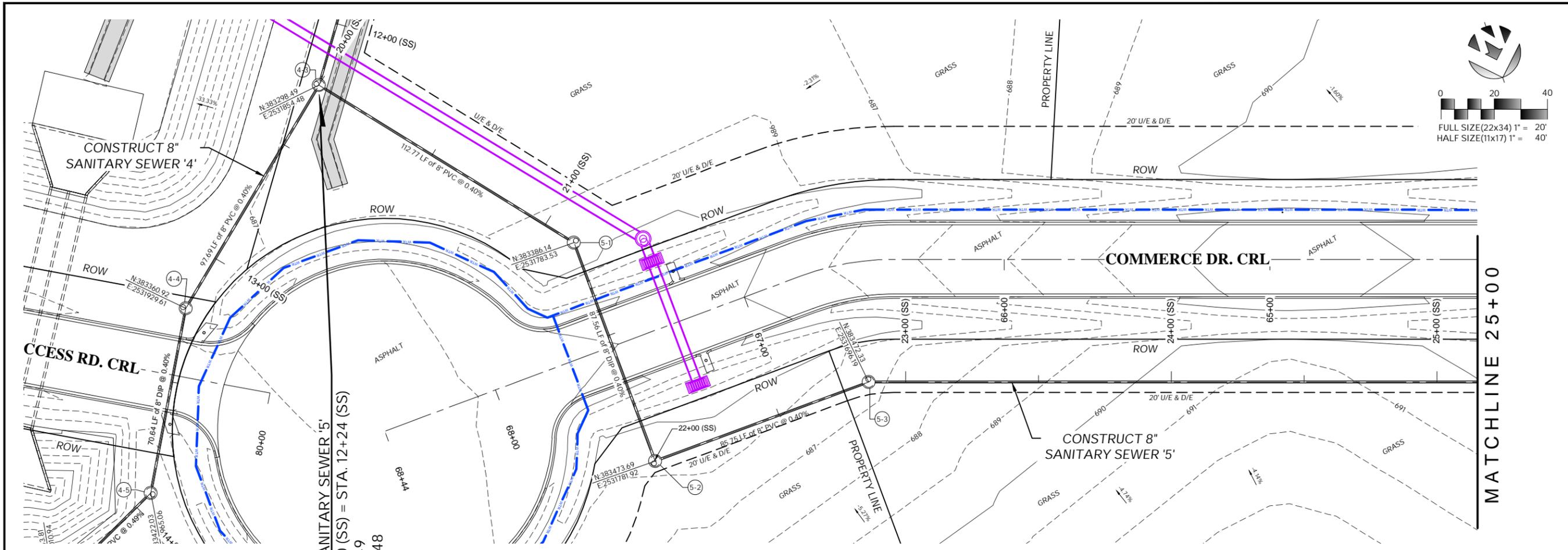
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PLAN & PROFILE
SANITARY SEWER '4'
STA 10+00(SS) TO
STA 14+43(SS)**

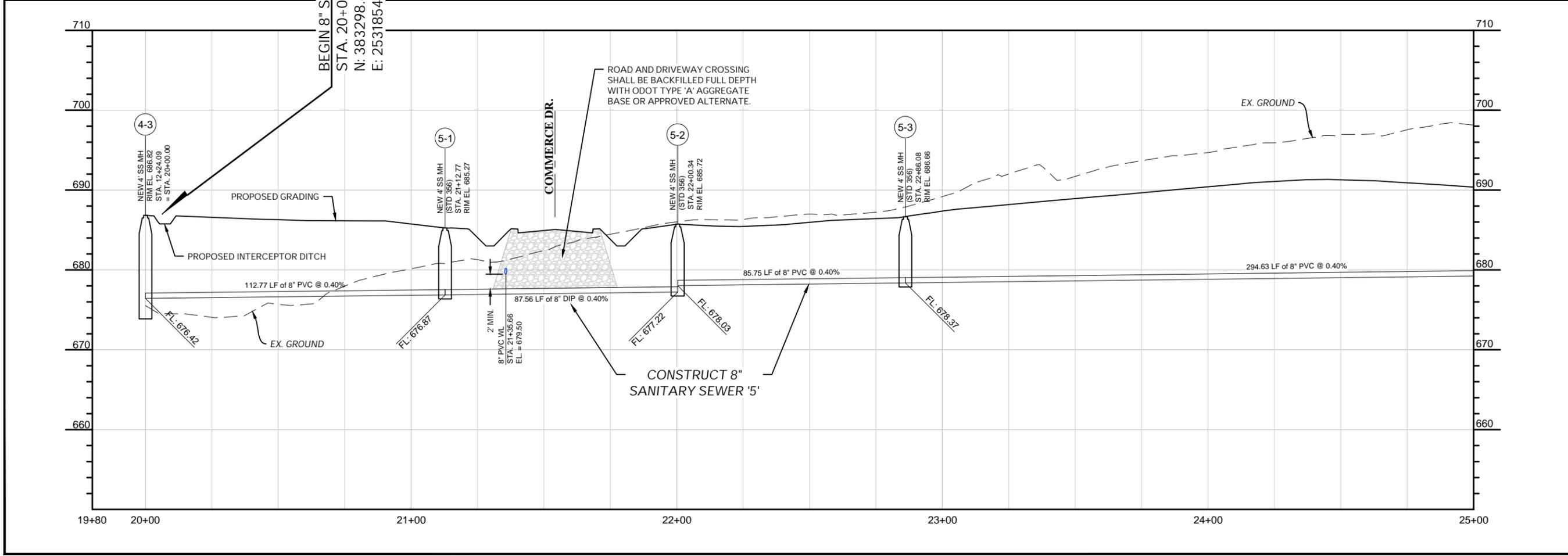
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| ATLAS PAGE NO. | -- |
| DATE | JANUARY 9, 2026 |
| SHEET: | 42 OF 80 |
| DRAWING: | S01 |

1/9/2026 9:50:59 AM



Plans and Estimates Prepared by:

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



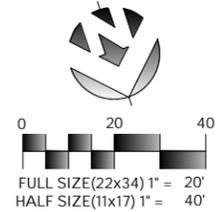
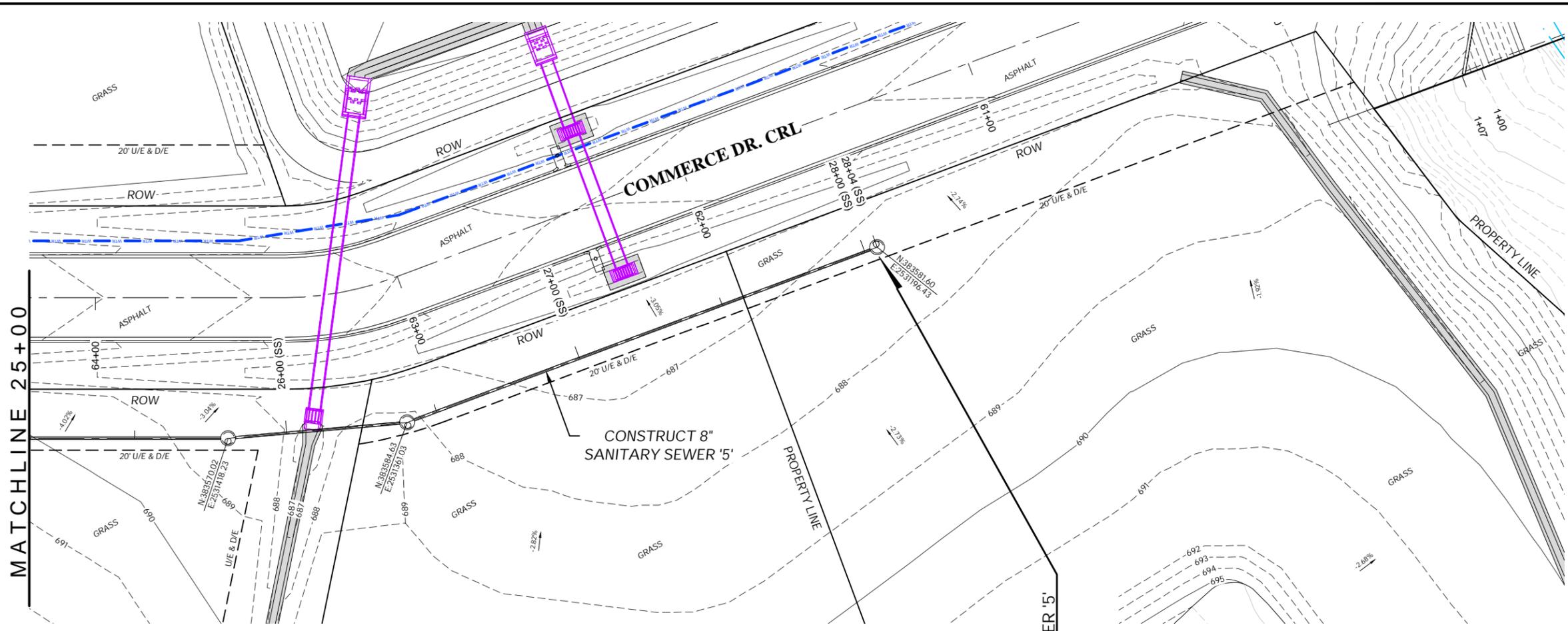
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PLAN & PROFILE
SANITARY SEWER '5'
STA 20+00(SS) TO
STA 25+00(SS)**

| | |
|----------------|---------------------|
| 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: | 43 OF 80 |
| DRAWING: | S02 |

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Plans and Estimates Prepared by:

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

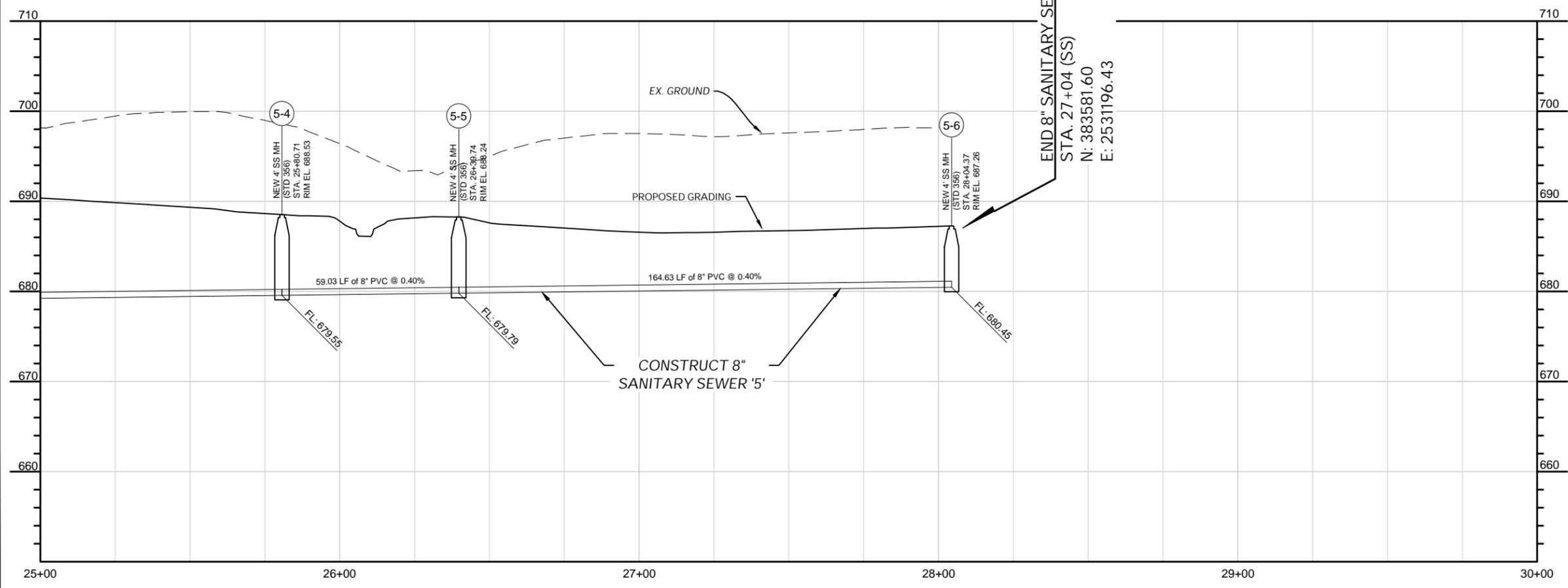


**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

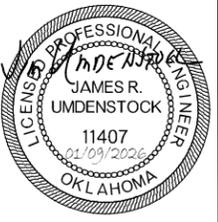
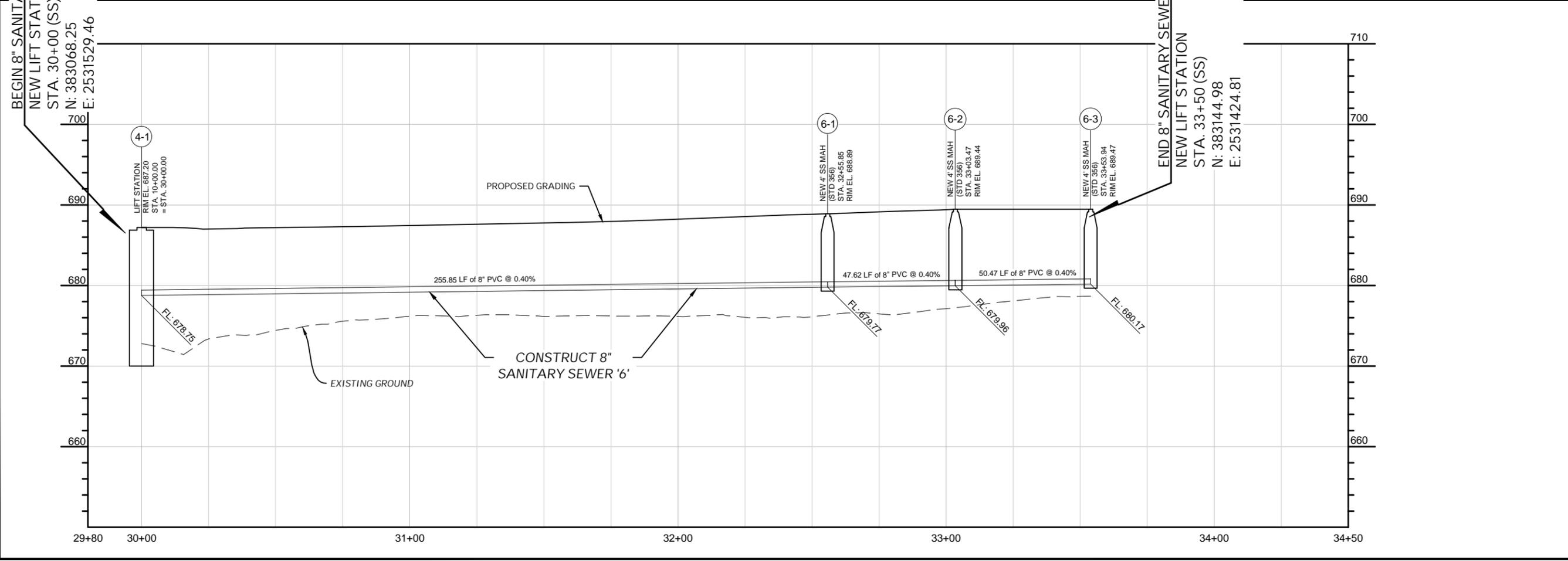
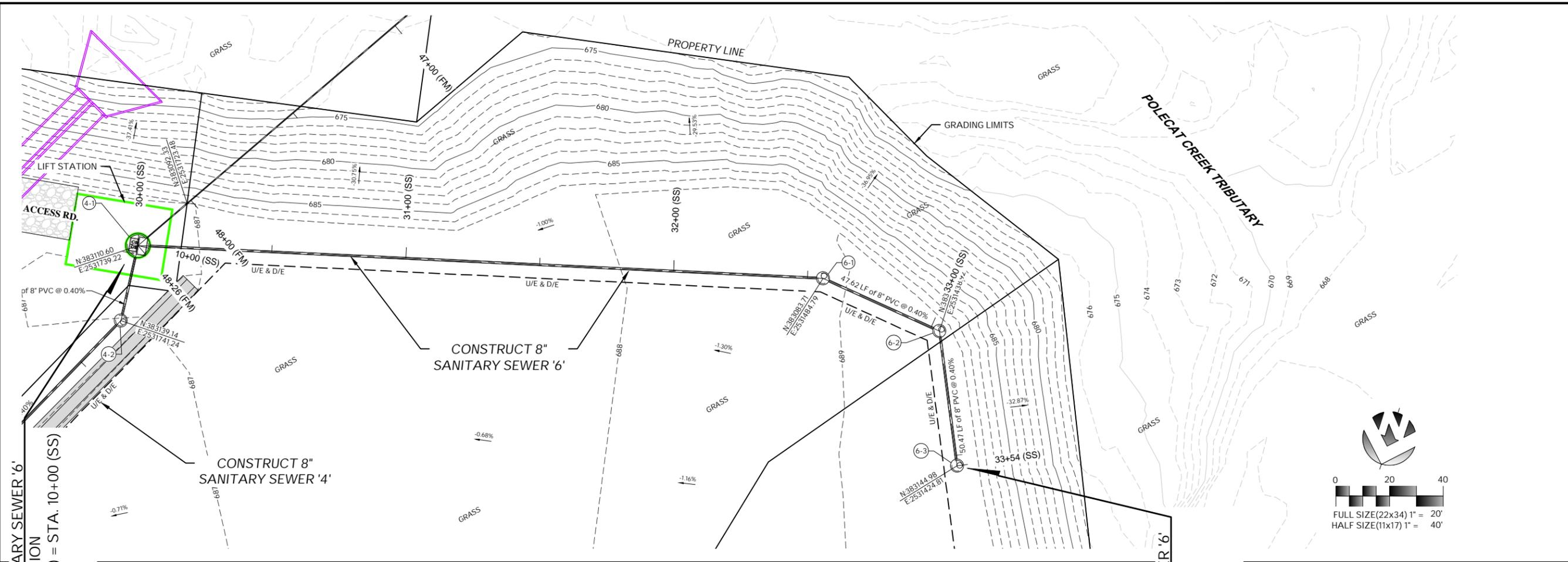
**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PLAN & PROFILE
SANITARY SEWER '5'
STA 25+00(SS) TO
STA 27+04(SS)**

| | |
|----------------|---------------------|
| 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: | 44 OF 80 |
| DRAWING: | S03 |



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



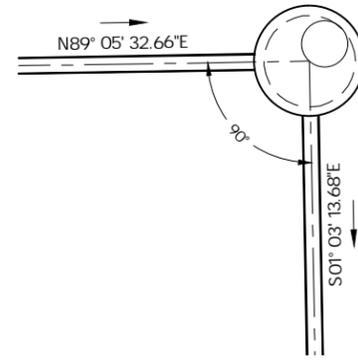
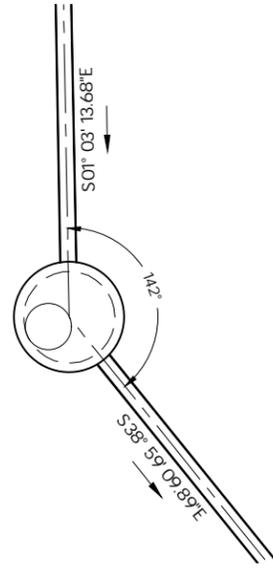
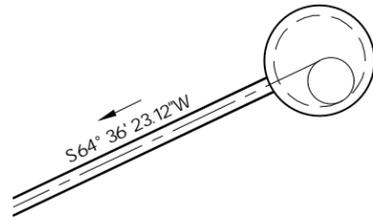
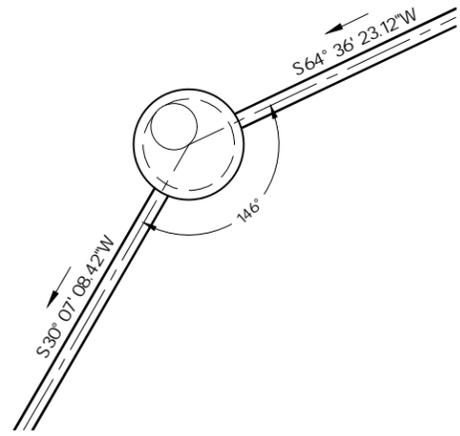
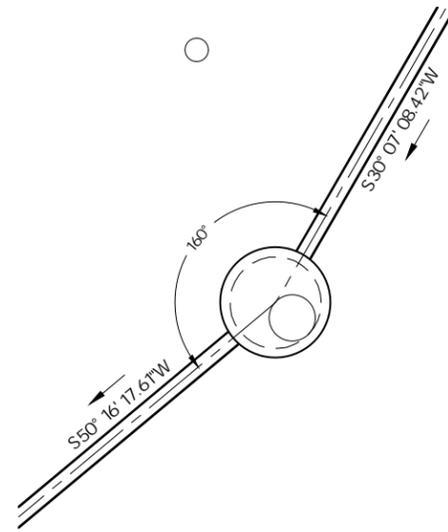
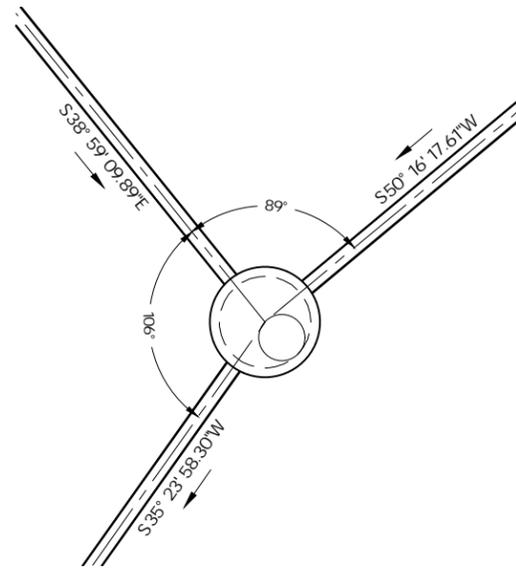
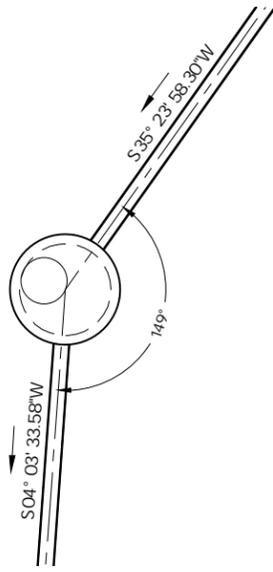
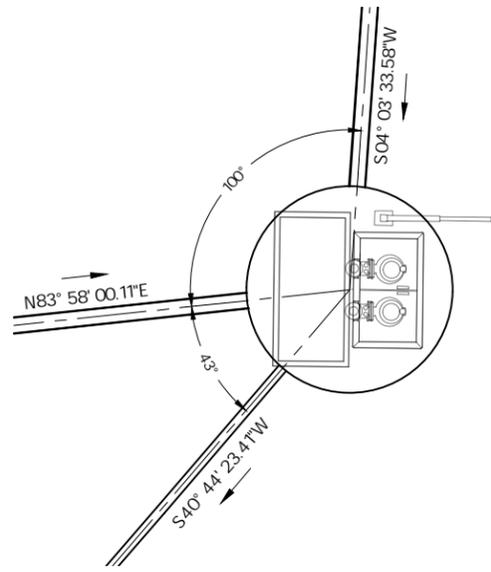
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PLAN & PROFILE
SANITARY SEWER '6'
STA 30+00(SS) TO
STA 33+54(SS)**

| | |
|----------------|---------------------|
| 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: | 45 OF 80 |
| DRAWING: | S04 |

1/9/2026 9:51:22 AM



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

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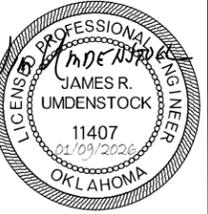
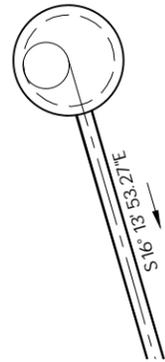
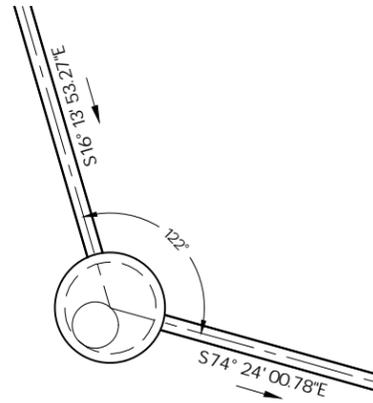
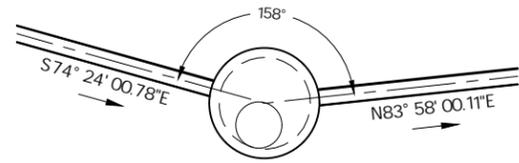
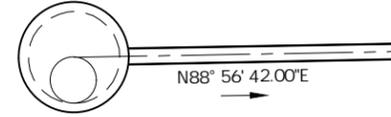
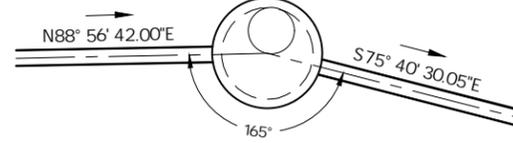
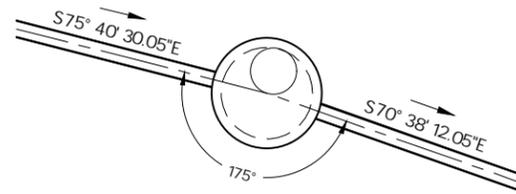
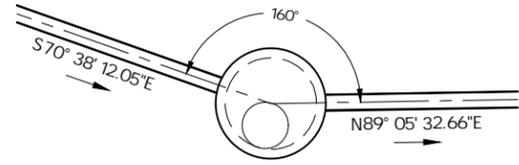
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
 SANITARY SEWER
 MANHOLE
 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 |
| SHEET: | 46 OF 80 |
| DRAWING: | S05 |

1/9/2026 9:52:03 AM



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

| REVISION | BY | DATE |
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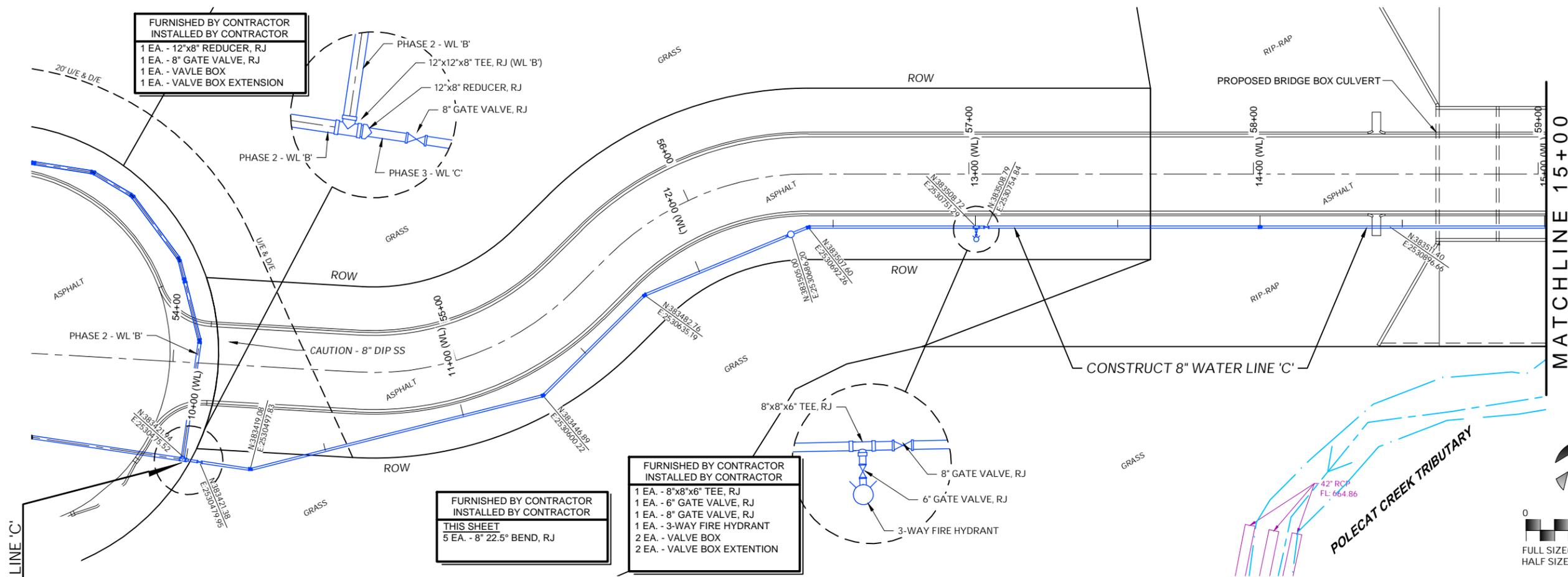
**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
 SANITARY SEWER
 MANHOLE
 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 |
| SHEET: | 47 OF 80 |
| DRAWING: | S06 |

1/9/2026 9:52:48 AM



FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR

- 1 EA. - 12"x8" REDUCER, RJ
- 1 EA. - 8" GATE VALVE, RJ
- 1 EA. - VALVE BOX
- 1 EA. - VALVE BOX EXTENSION

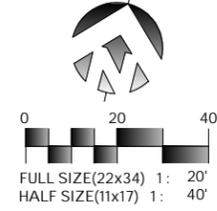
FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR

- 1 EA. - 8"x8"x6" TEE, RJ
- 1 EA. - 6" GATE VALVE, RJ
- 1 EA. - 8" GATE VALVE, RJ
- 1 EA. - 3-WAY FIRE HYDRANT
- 2 EA. - VALVE BOX
- 2 EA. - VALVE BOX EXTENSION

FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR

THIS SHEET

- 5 EA. - 8" 22.5° BEND, RJ



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| | | | |
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| | 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7971 | BY | |
| | | REVISION | |

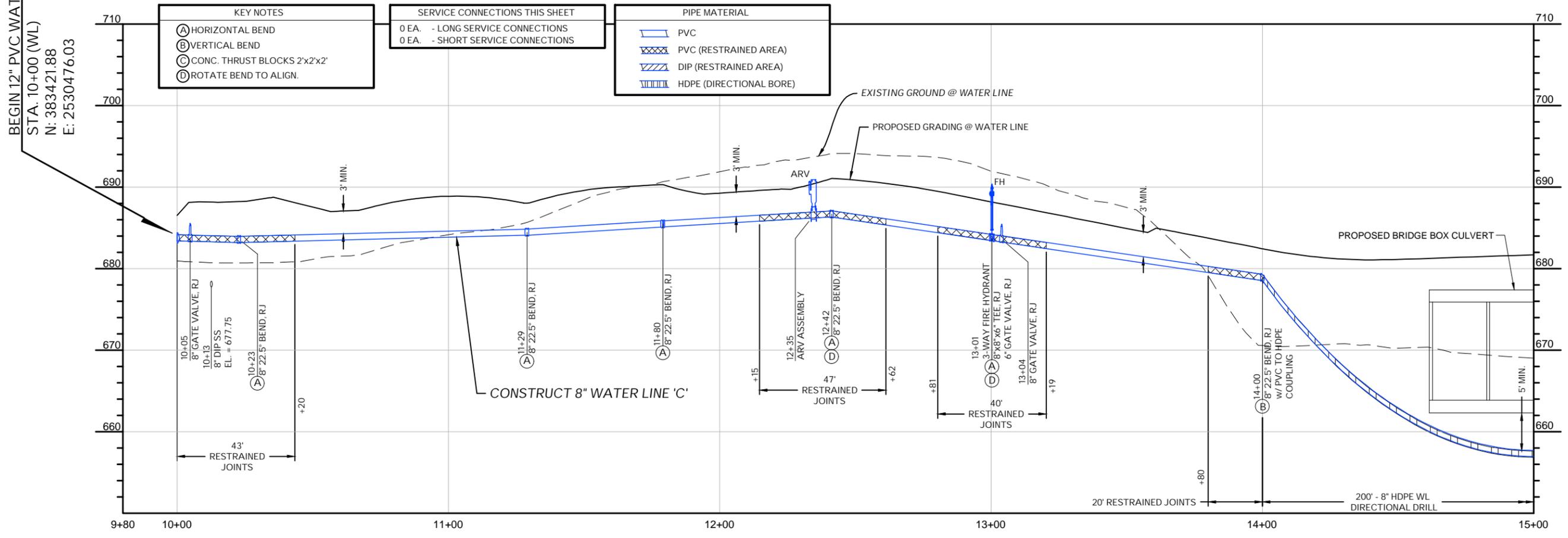


ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PLAN & PROFILE
WATER LINE 'C'
STA 10+00 TO
STA 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: | 48 OF 80 |
| DRAWING: | W01 |



KEY NOTES

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

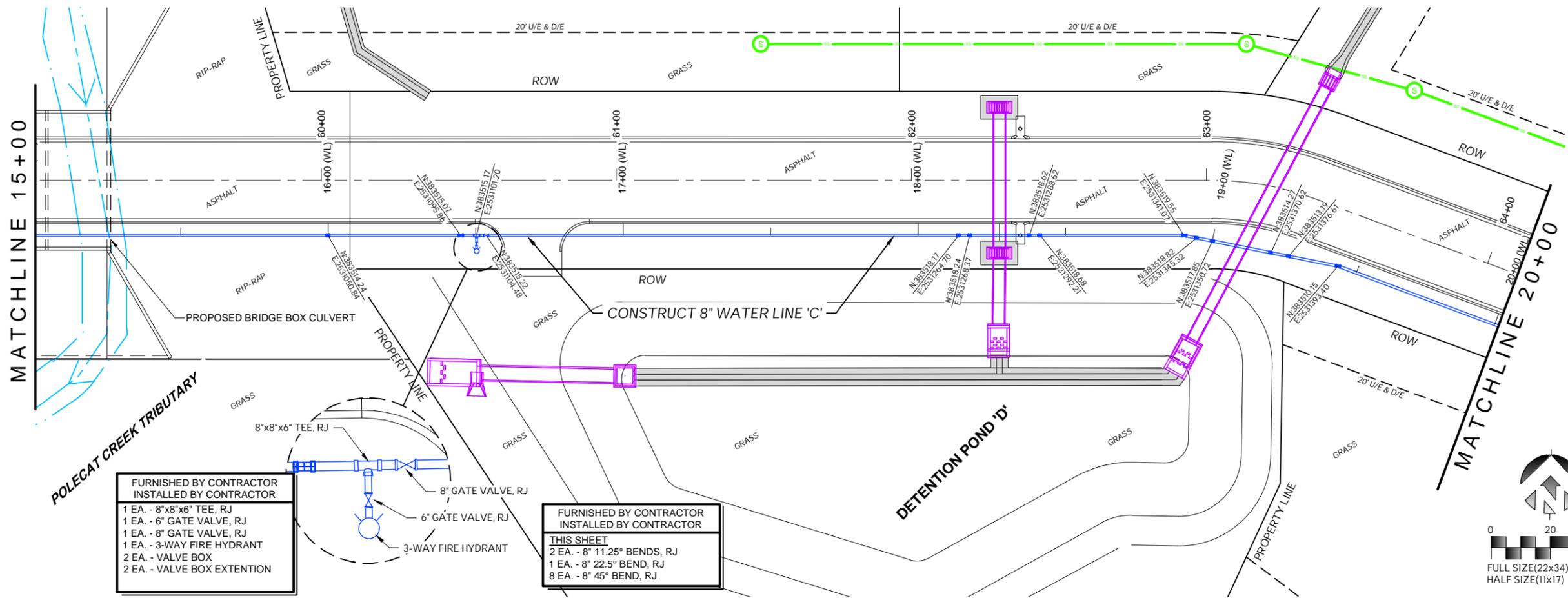
SERVICE CONNECTIONS THIS SHEET

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

PIPE MATERIAL

- PVC
- PVC (RESTRAINED AREA)
- DIP (RESTRAINED AREA)
- HDPE (DIRECTIONAL BORE)

DRAWING: W01



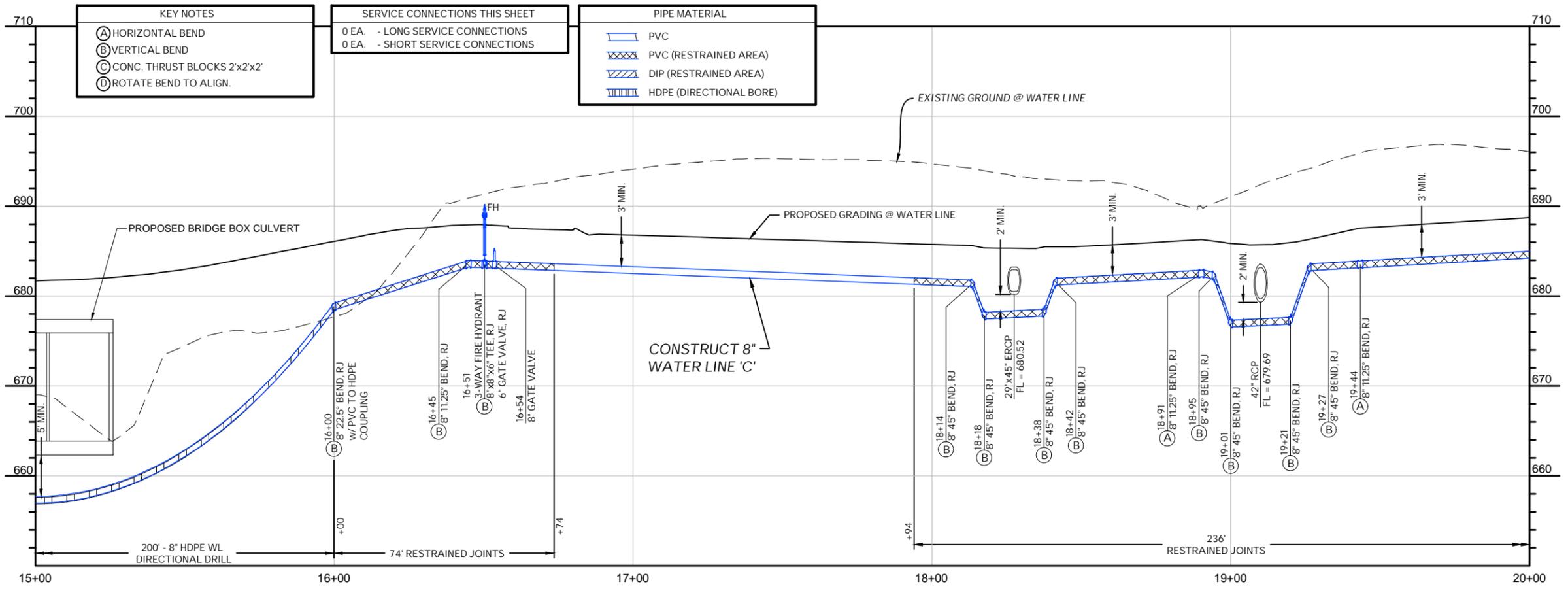
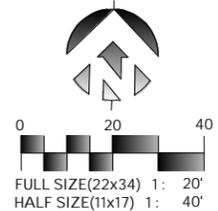
- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- 1 EA. - 8"x8"x6" TEE, RJ
 - 1 EA. - 6" GATE VALVE, RJ
 - 1 EA. - 8" GATE VALVE, RJ
 - 1 EA. - 3-WAY FIRE HYDRANT
 - 2 EA. - VALVE BOX
 - 2 EA. - VALVE BOX EXTENTION

- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- THIS SHEET
- 2 EA. - 8" 11.25° BENDS, RJ
 - 1 EA. - 8" 22.5° BEND, RJ
 - 8 EA. - 8" 45° BEND, RJ



Plans and Estimates Prepared by:

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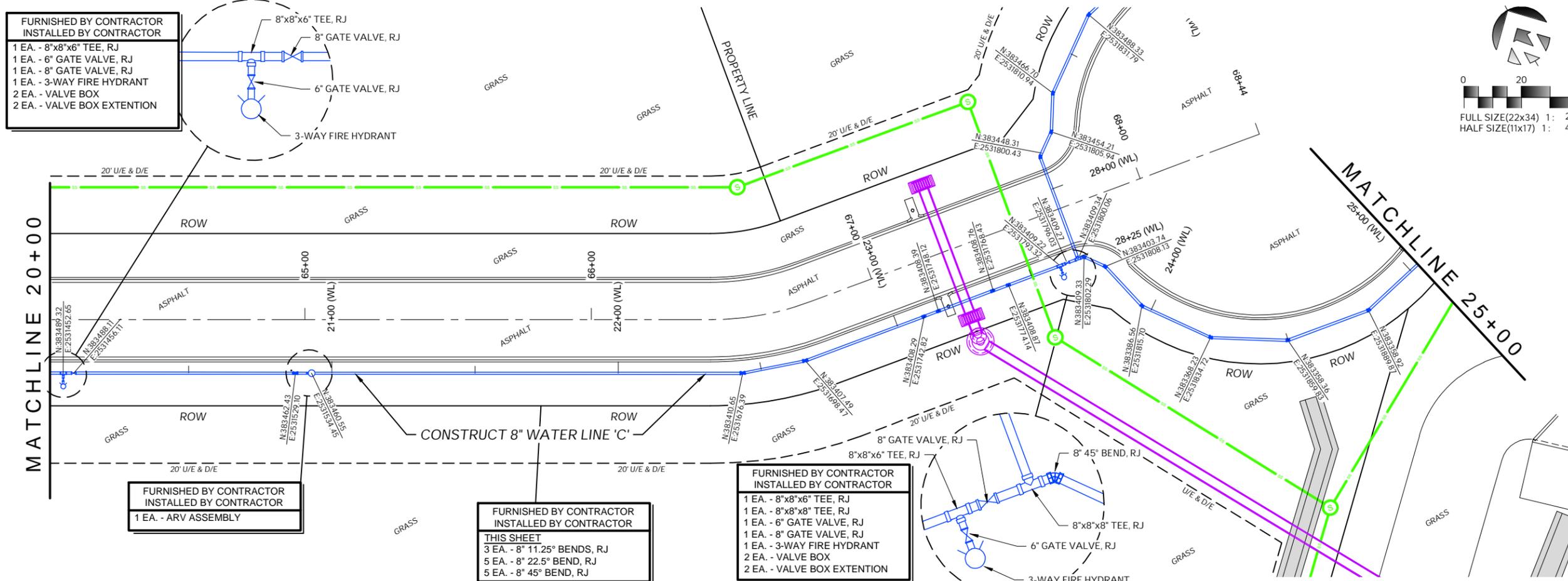
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PLAN & PROFILE
WATER LINE 'C'
STA 15+00 TO
STA 20+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: | 49 OF 80 |
| DRAWING: | W02 |

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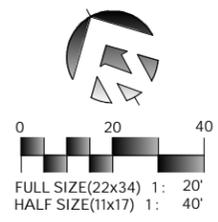


- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- 1 EA. - 8"x8"x6" TEE, RJ
 - 1 EA. - 6" GATE VALVE, RJ
 - 1 EA. - 8" GATE VALVE, RJ
 - 1 EA. - 3-WAY FIRE HYDRANT
 - 2 EA. - VALVE BOX
 - 2 EA. - VALVE BOX EXTENSION

- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- 1 EA. - ARV ASSEMBLY

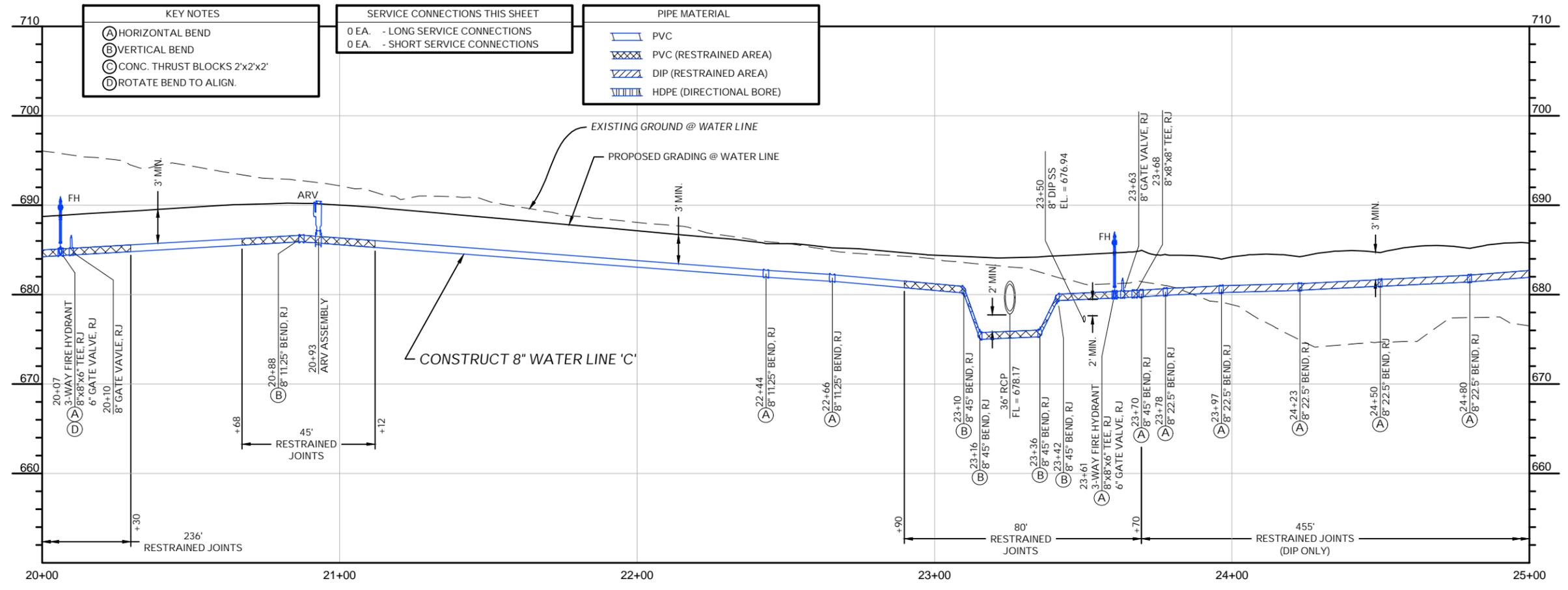
- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- THIS SHEET
- 3 EA. - 8" 11.25° BENDS, RJ
 - 5 EA. - 8" 22.5° BEND, RJ
 - 5 EA. - 8" 45° BEND, RJ

- FURNISHED BY CONTRACTOR
INSTALLED BY CONTRACTOR
- 1 EA. - 8"x8"x6" TEE, RJ
 - 1 EA. - 8"x8"x8" TEE, RJ
 - 1 EA. - 6" GATE VALVE, RJ
 - 1 EA. - 8" GATE VALVE, RJ
 - 1 EA. - 3-WAY FIRE HYDRANT
 - 2 EA. - VALVE BOX
 - 2 EA. - VALVE BOX EXTENSION



Plans and Estimates Prepared by:

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



- 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)
 - HDPE (DIRECTIONAL BORE)

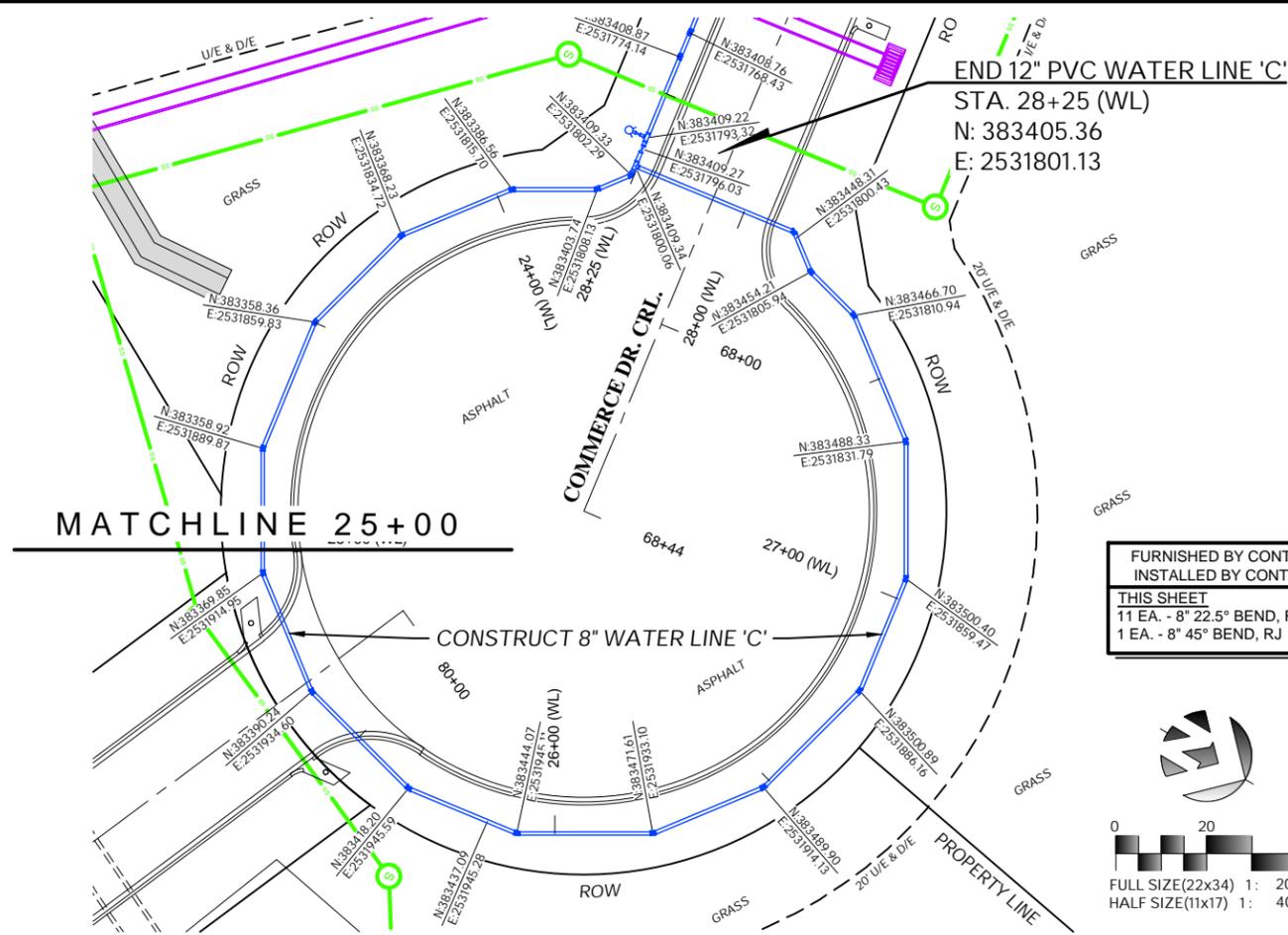
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

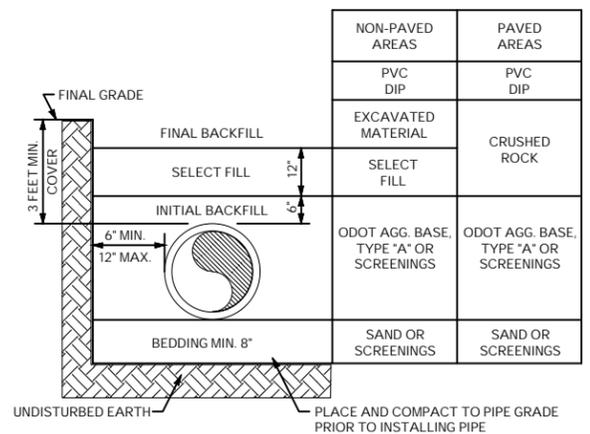
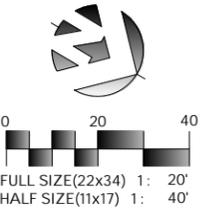
PLAN & PROFILE
WATER LINE 'C'
STA 20+00 TO
STA 25+00

| | |
|----------------|---------------------|
| 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: | 50 OF 80 |
| DRAWING: | W03 |

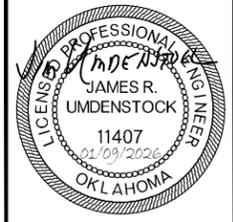
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FURNISHED BY CONTRACTOR
 INSTALLED BY CONTRACTOR
 THIS SHEET
 11 EA. - 8" 22.5° BEND, RJ
 1 EA. - 8" 45° BEND, RJ

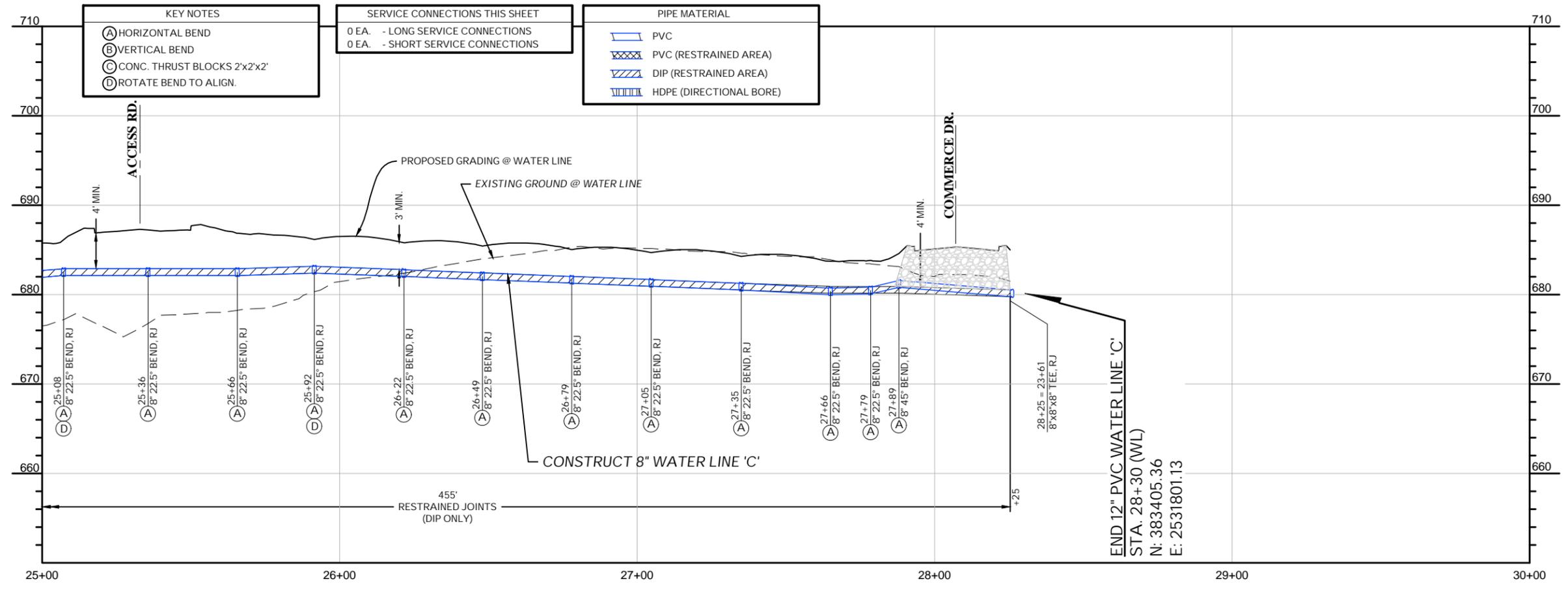


| NON-PAVED AREAS | PAVED AREAS |
|--|--|
| PVC DIP | PVC DIP |
| EXCAVATED MATERIAL | CRUSHED ROCK |
| SELECT FILL | SELECT FILL |
| ODOT AGG. BASE, TYPE 'A' OR SCREENINGS | ODOT AGG. BASE, TYPE 'A' OR SCREENINGS |
| SAND OR SCREENINGS | SAND OR SCREENINGS |



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 | |

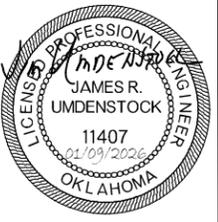
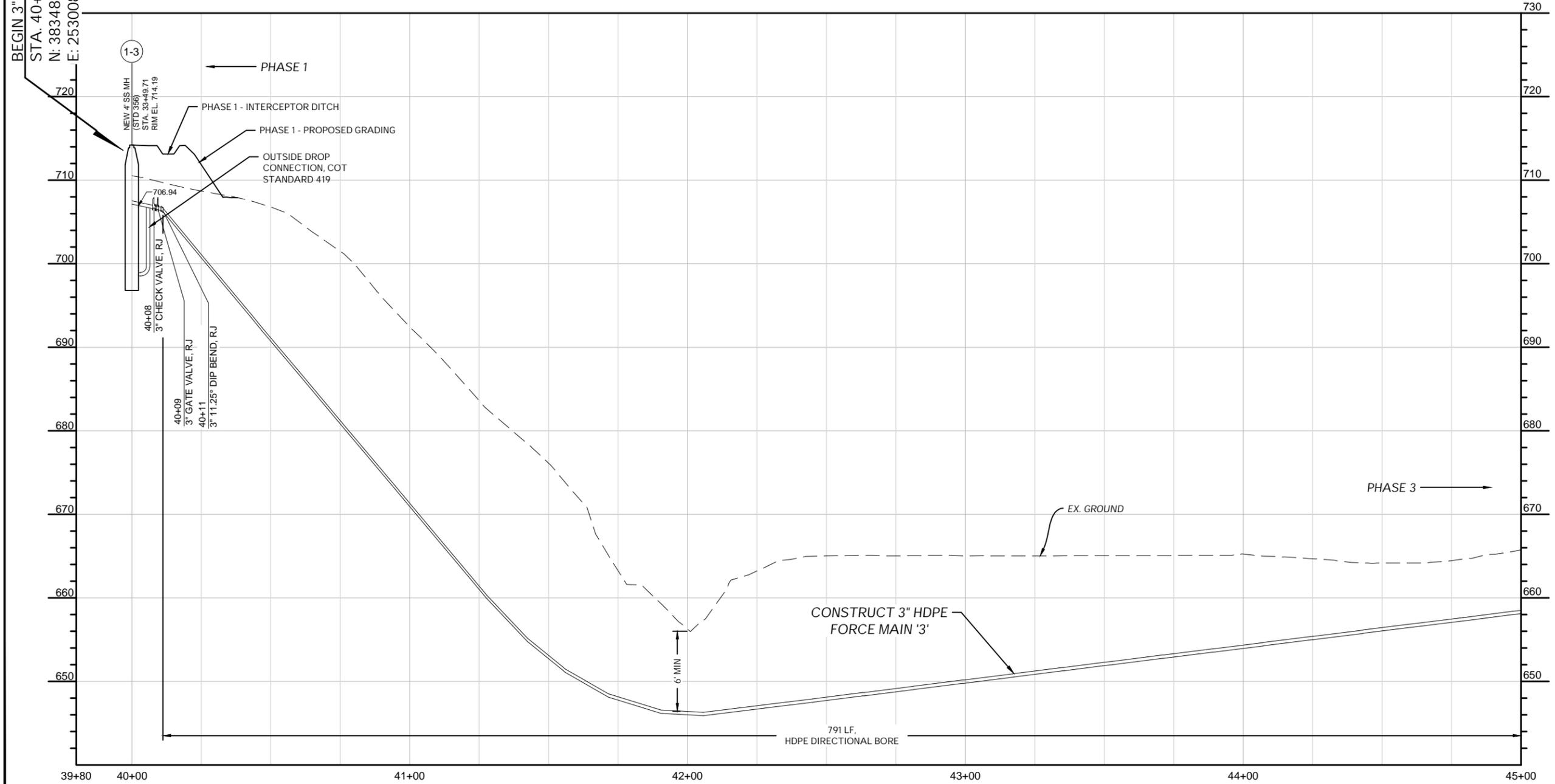
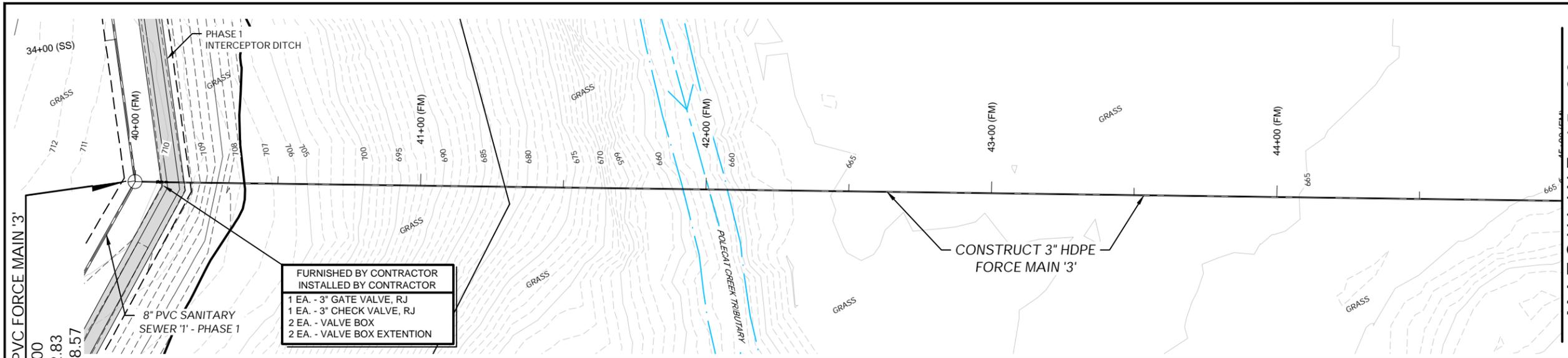


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PLAN & PROFILE
 WATER LINE 'C'
 STA 25+00 TO
 STA 28+30

| | |
|----------------|---------------------|
| 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: | 51 OF 80 |
| DRAWING: | W04 |

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Plans and Estimates Prepared by:

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

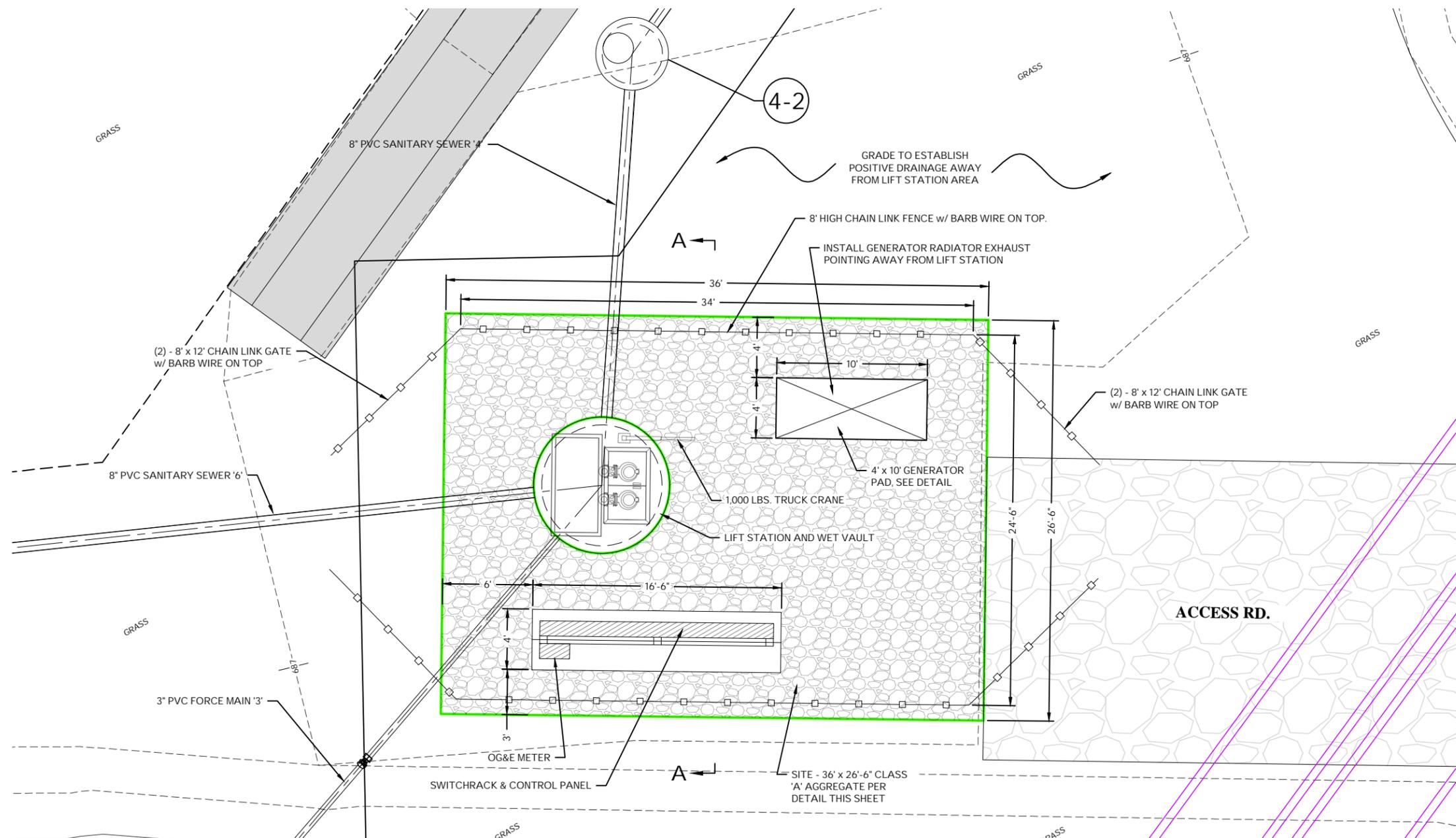
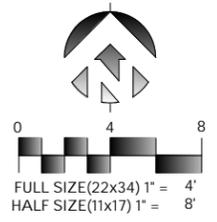


**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**

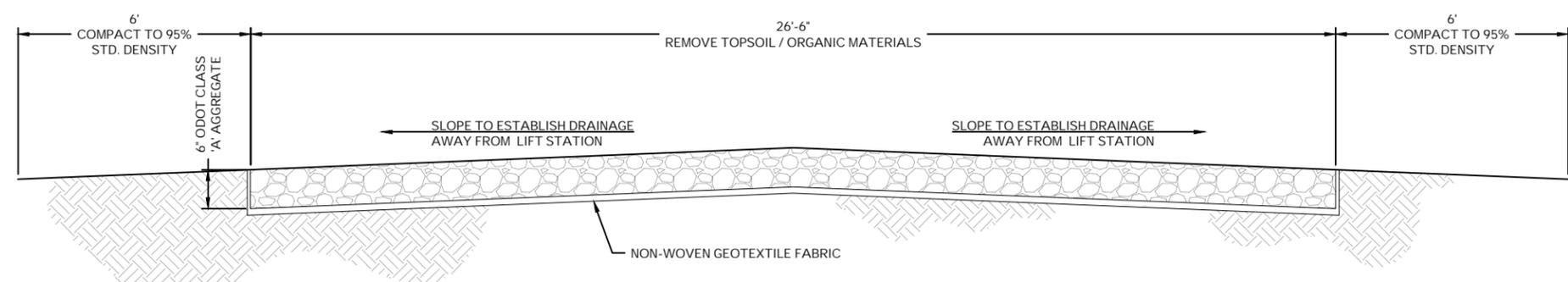
**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

**PLAN & PROFILE
 FORCE MAIN '3'
 STA 40+00 TO
 STA 45+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: | 52 OF 80 |
| DRAWING: | S07 |



**1 SITE LAYOUT
LIFT STATION '3'**
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 | DATE | |
| | | BY | |
| | | REVISION | |



**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

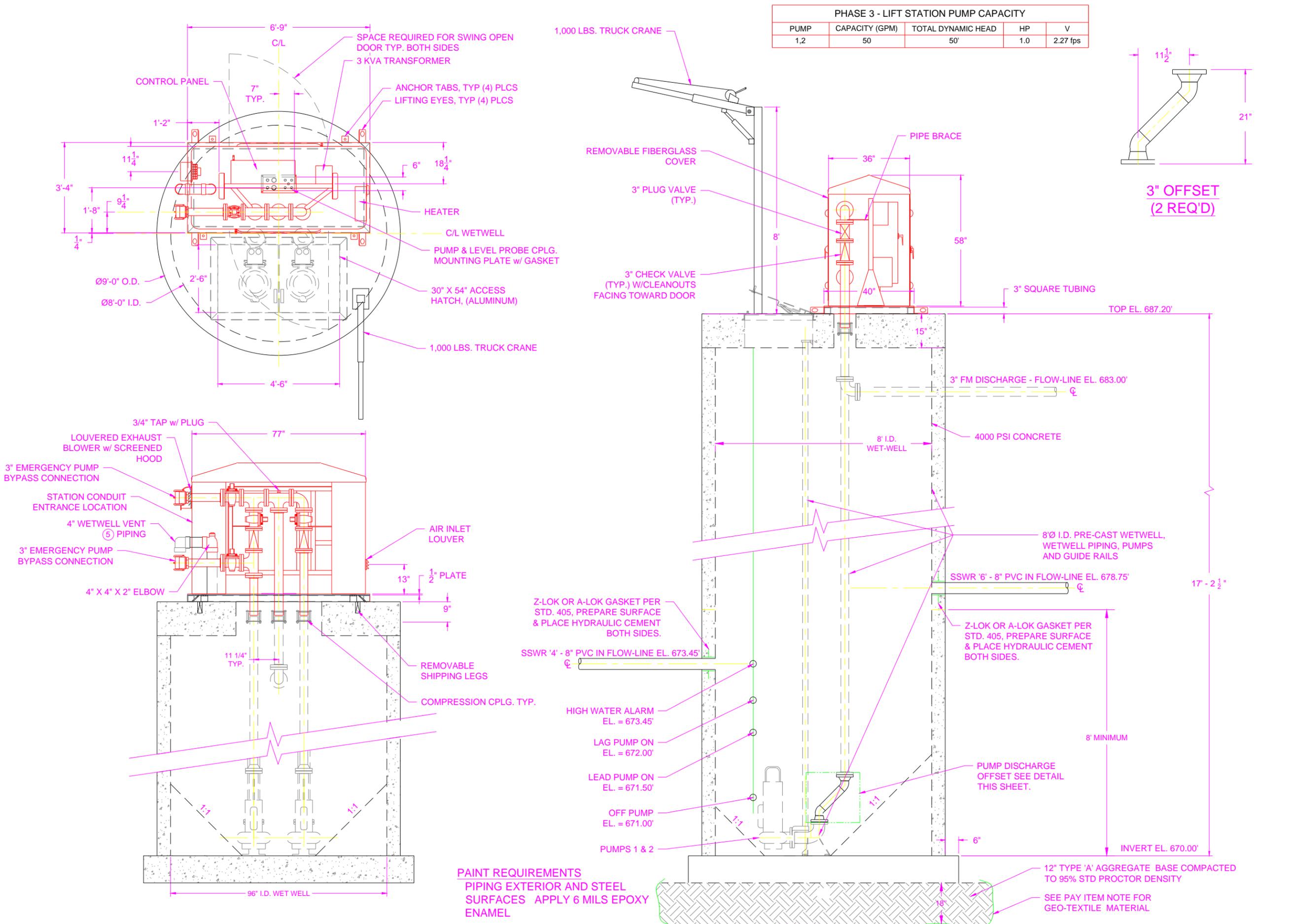
**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**LIFT STATION '3'
SITE PLAN**

| | |
|-----------------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
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| DRAWING: | S09 |

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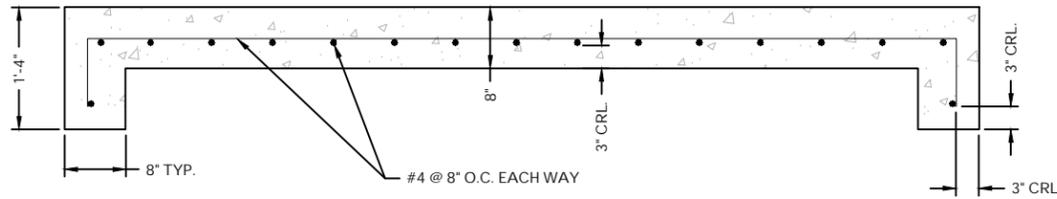
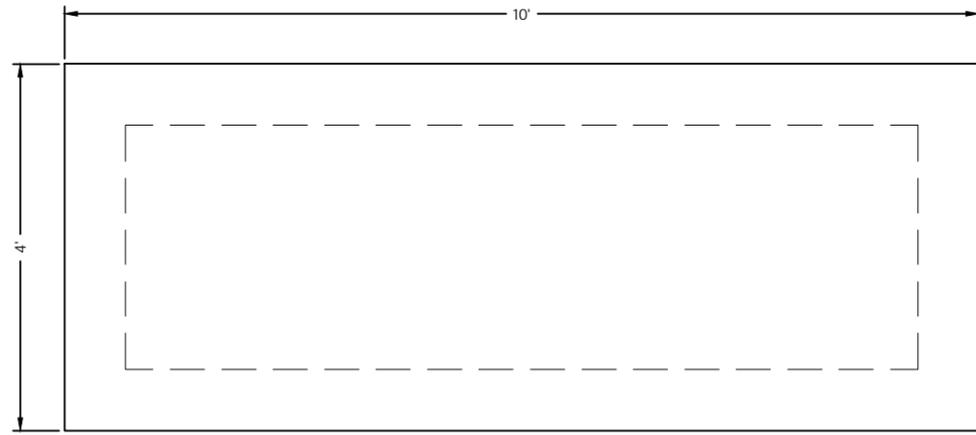
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| KE | KEITHLINE ENGINEERING GROUP | DATE | |
| | 8556 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911 | BY | |
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ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

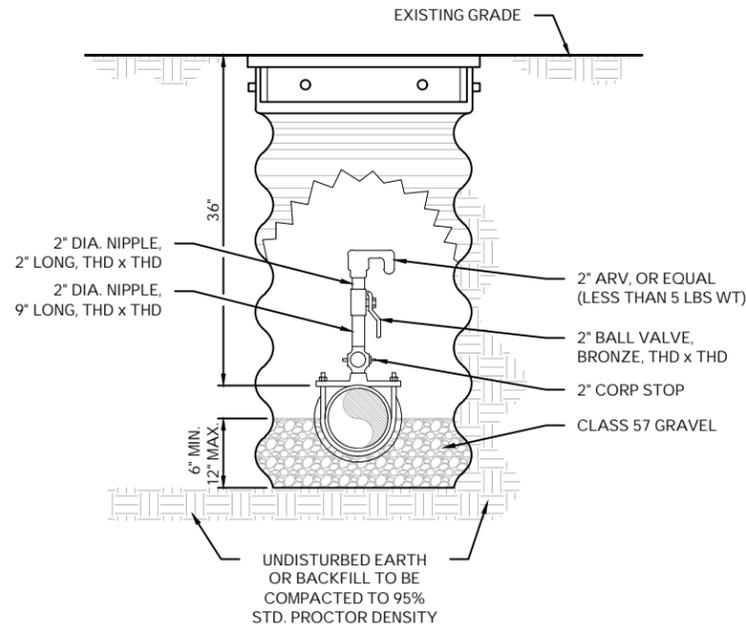
PHASE 3 (ALT. 2)
 LIFT STATION
 DETAIL

| | |
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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
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| ATLAS PAGE NO. | - |
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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.



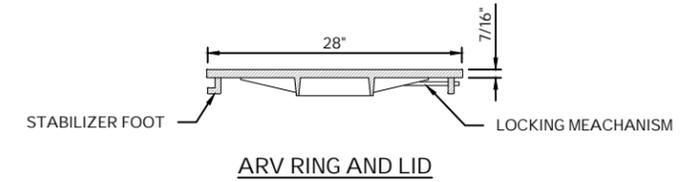
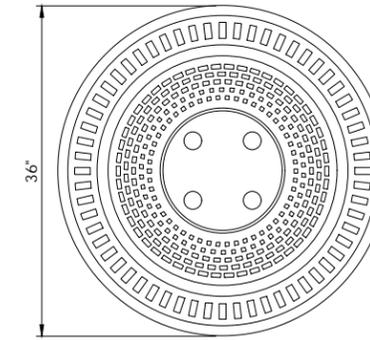
ELEVATION VIEW

- 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.

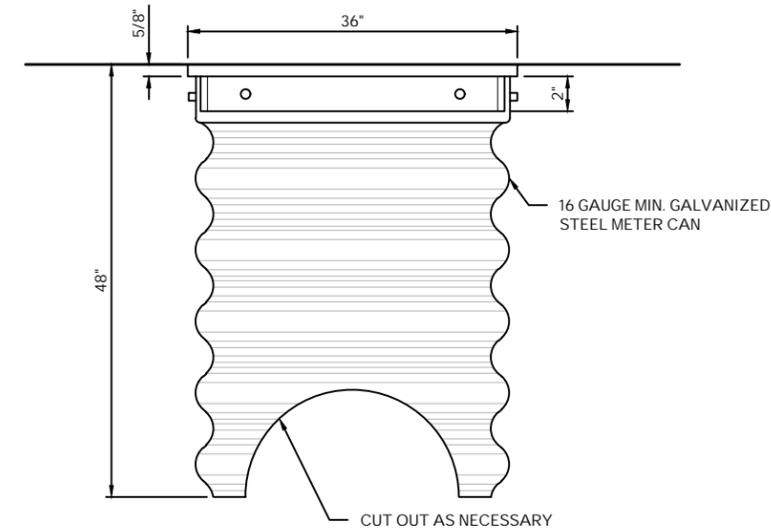
TO BE FURNISHED AND INSTALL BY CONTRACTOR

- 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

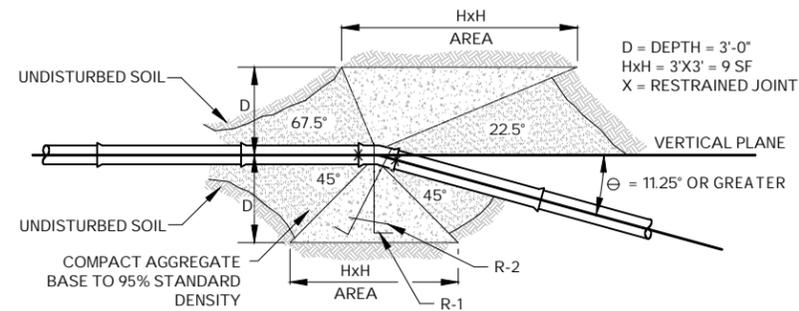
2 TYPICAL ARV ASSEMBLY
SCALE: NTS



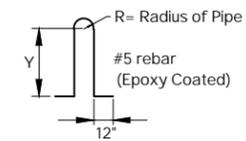
ARV RING AND LID



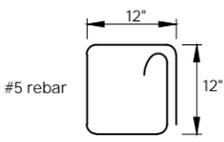
ARV CAN



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



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ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

SANITARY
SEWER
DETAILS

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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, MPZB7S40F | | CAB: SURFACE, NEMA 3R | | | | | | | | |
|---|-----------|---|-------|----------------------------|--------------------|-----|-----|-----------|-------|------|-----------|-------------------------|
| SERVICE: 480V, 1PH, 2W IN - 120/240V, 1PH, 3 WIRE OUT | | BUS: 40A | | MAIN: 20/2 PRI/40/2 SEC. | | | | | | | | |
| ISC RATING: 18K A.I.C. | | FEED: - | | NO SERIES RATINGS ACCEPTED | | | | | | | | |
| SERVING | WIRE SIZE | AMPS | POLES | CIRC. NO. | PHASE LOADING AMPS | | | CIRC. NO. | POLES | AMPS | WIRE SIZE | SERVING |
| | | | | | A | B | C | | | | | |
| 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 120KA SPD | | CAB: SURFACE, NEMA 3R | | | | | | | | |
|----------------------------|-----------|--------------------------------------|-------|----------------------------|--------------------|---|---|-----------|-------|------|-----------|--------------------|
| SERVICE: 277/480V, 3PH, 4W | | BUS: 100A COPPER WITH GROUND BUS | | MAIN: 100A BREAKER | | | | | | | | |
| ISC RATING: 18K A.I.C. | | 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 | | | | | |
| 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.

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/CONTROLS DIAGRAM NOTES:

- 1 FURNISH AND INSTALL DIVERSIFIED 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.

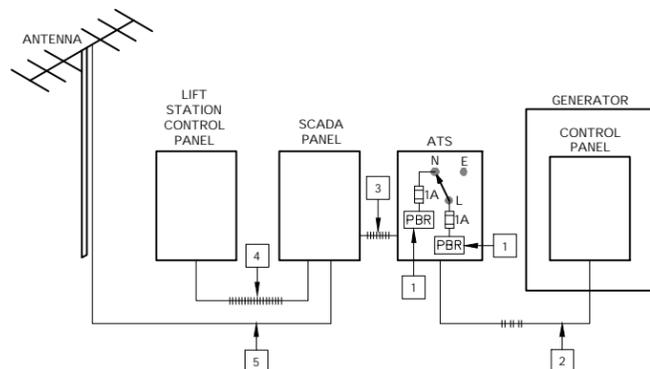
SCADA NOTES:

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.

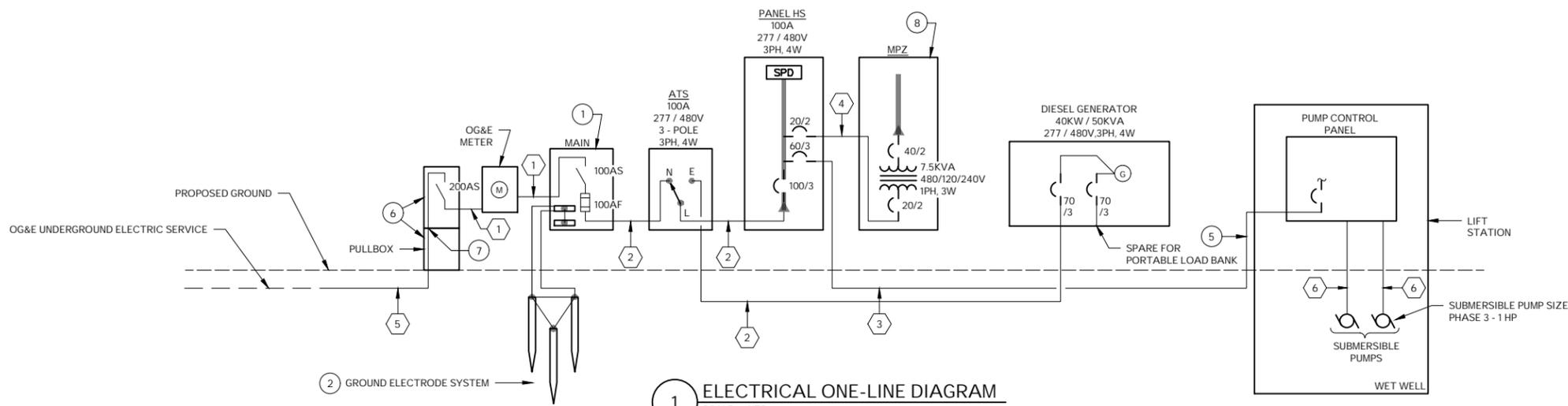
THE FOLLOWING SCADA POINTS ARE TO BE MONITORED:

- 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)

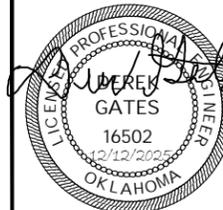
DRAWINGS INDICATE ESTIMATED CONDUCTOR, CONDUIT, AND CONNECTION REQUIREMENTS FOR BIDDING PURPOSES. CONTRACTOR SHALL FURNISH AND INSTALL CONDUCTORS AND CONDUIT AS NECESSARY FOR SCADA SYSTEM. COORDINATE WITH EQUIPMENT SHOP DRAWING.



2 SCADA / CONTROLS DIAGRAM
SCALE: NTS



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NTS



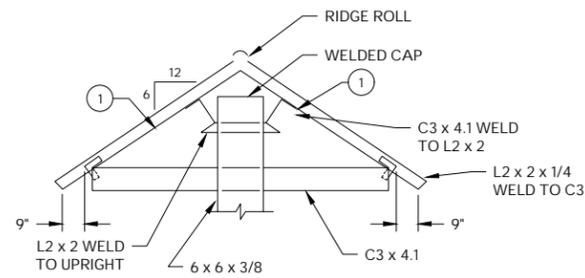
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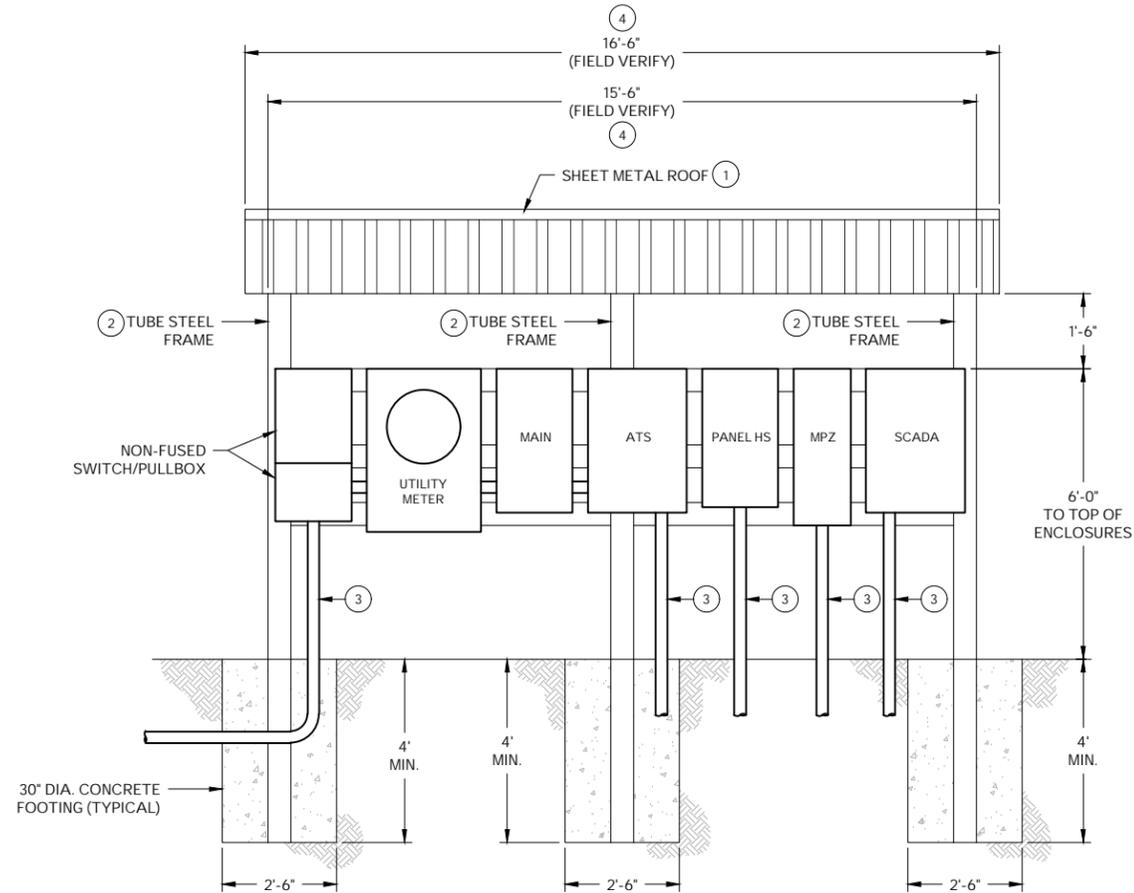
ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

ELECTRICAL DIAGRAM

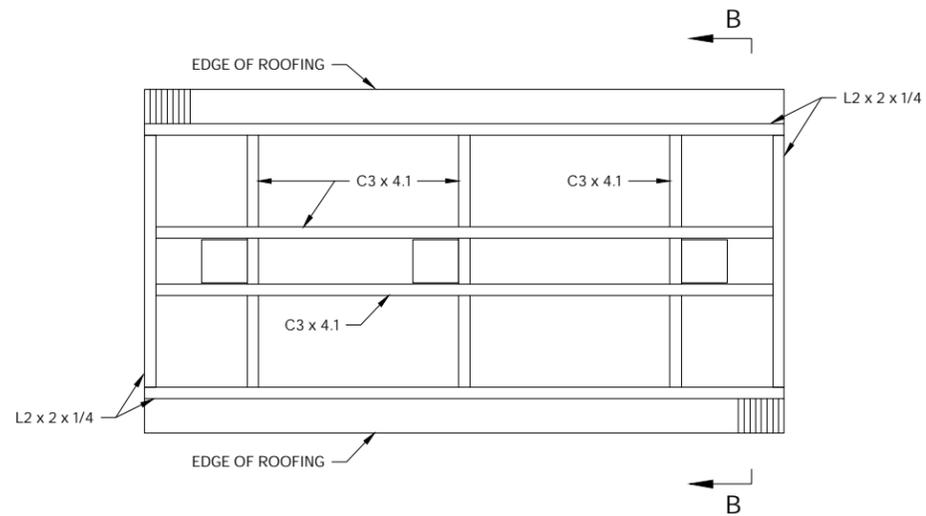
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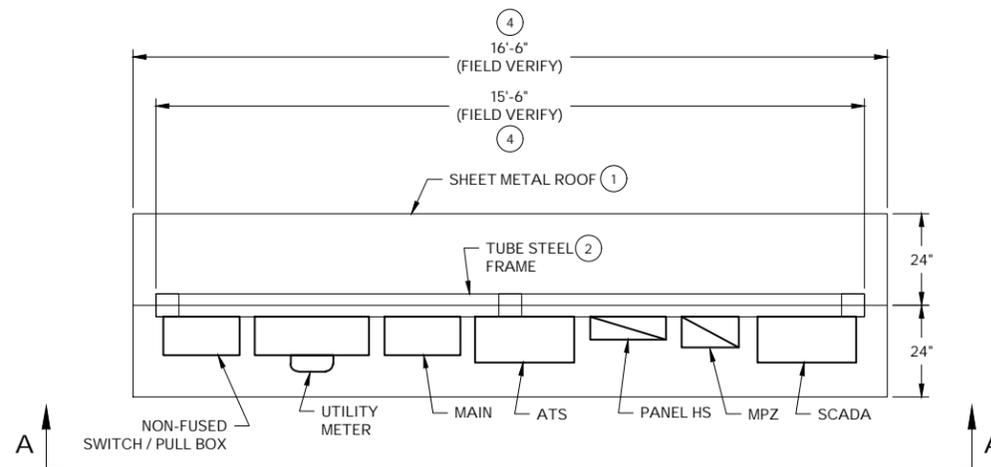
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SCALE: NTS



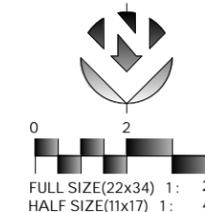
2 SECTION A-A
SCALE: 1/2



3 PLAN VIEW OF CANOPY
SCALE: NTS

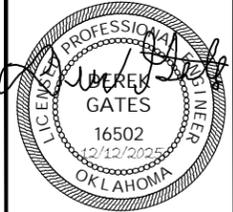


1 SWITCHRACK PLAN
SCALE: 1/2



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.



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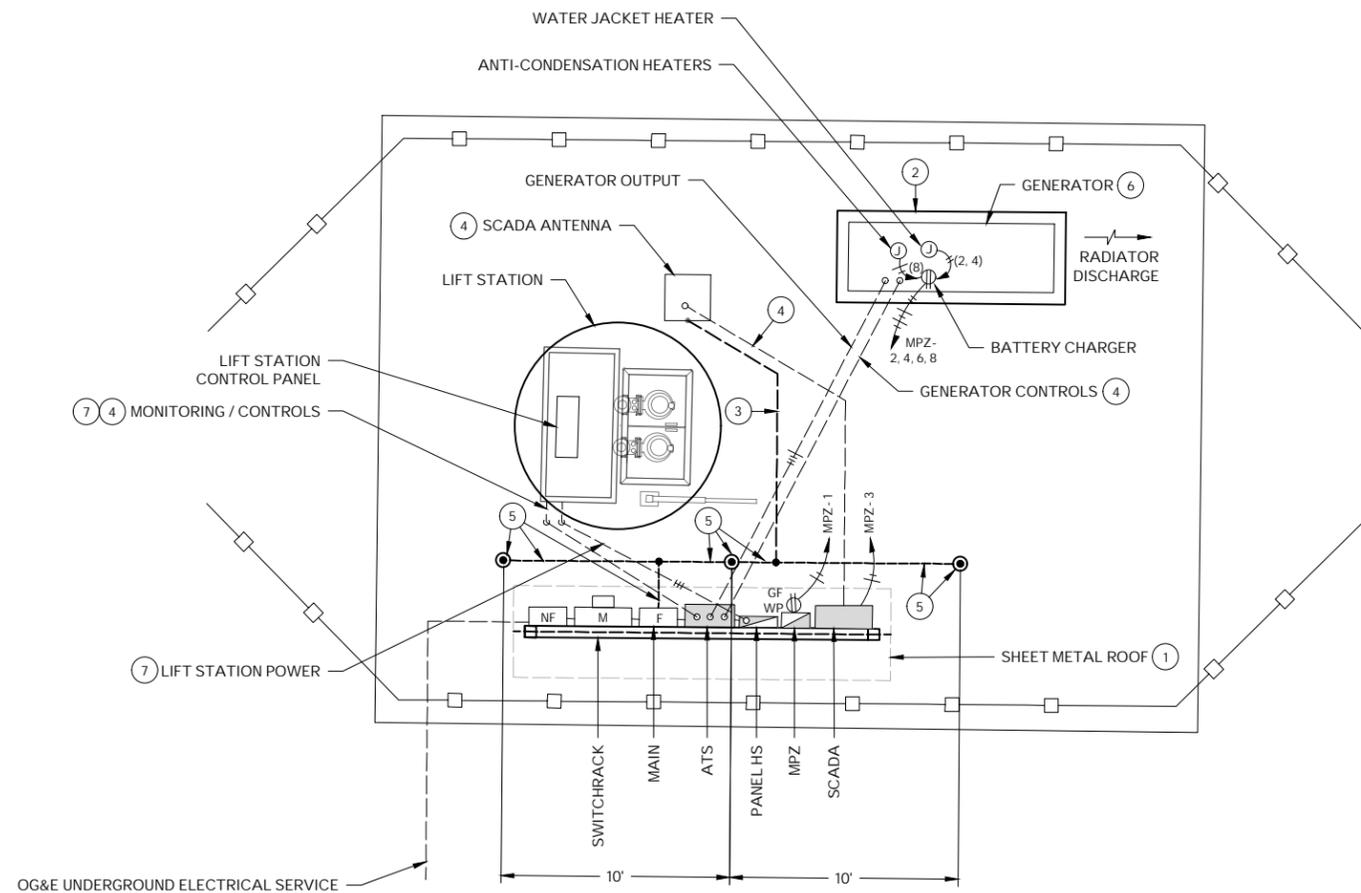


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

SWITCHRACK
 DETAILS

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1 PHASE 3
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.



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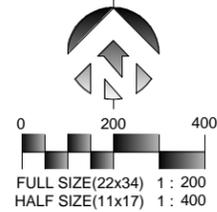
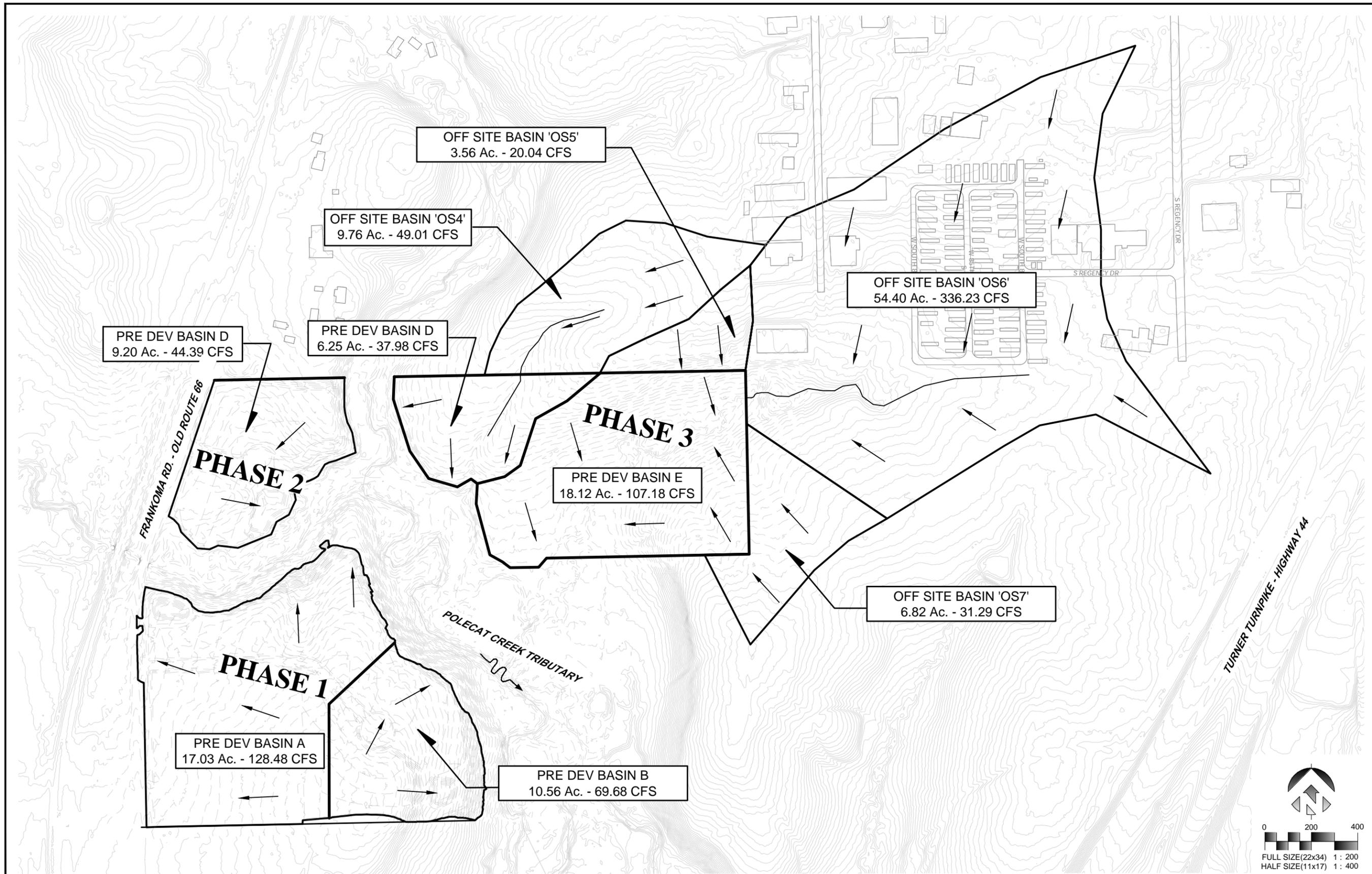


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
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PHASE 3
 LIFT STATION
 ELECTRICAL
 PLAN

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



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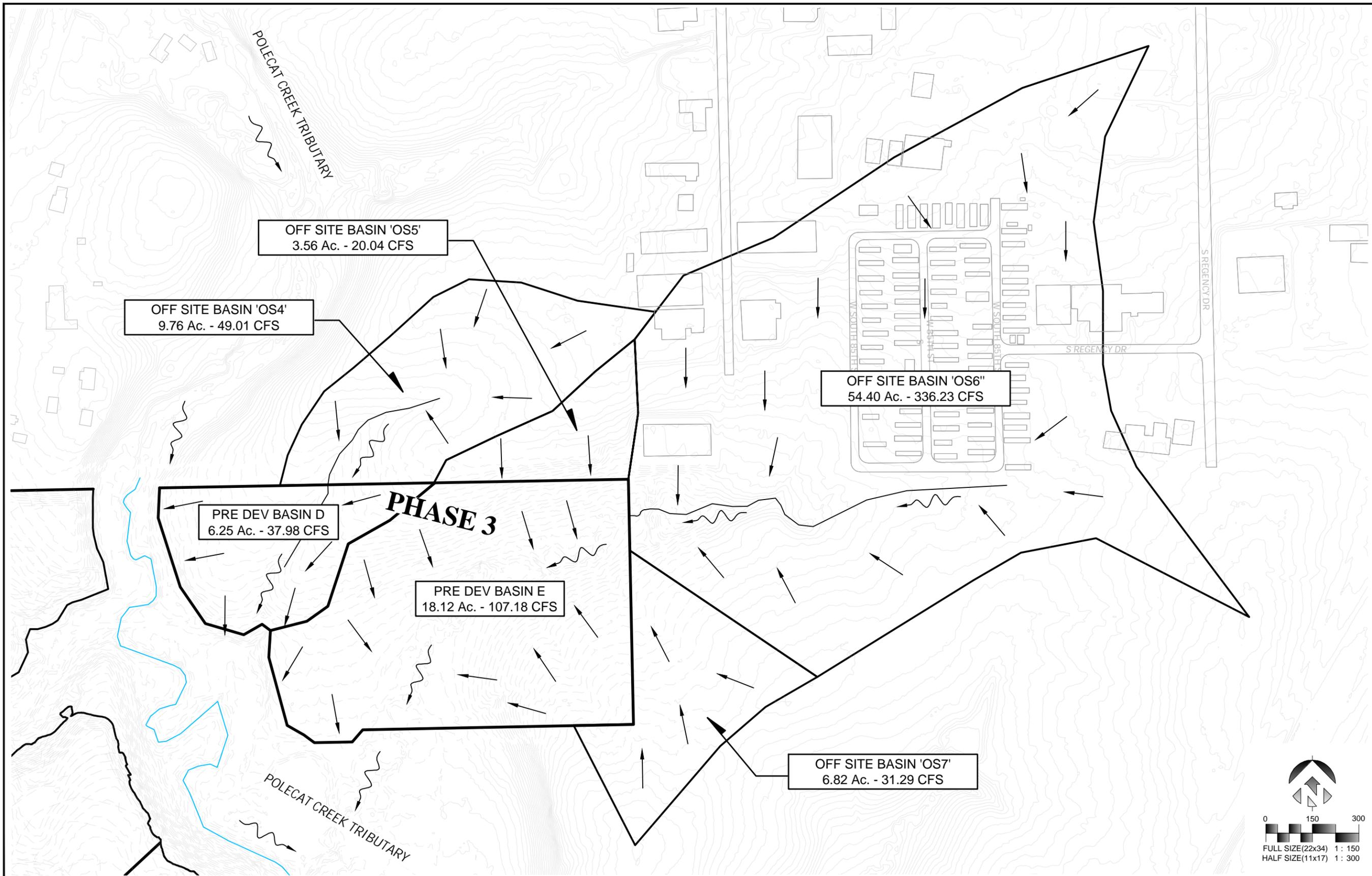


ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

PHASE 1, 2 & 3
 PRE DEVELOPMENT
 DRAINAGE
 OVERVIEW

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1 PHASE 3 - PRE DEVELOPMENT DRAINAGE BAINS



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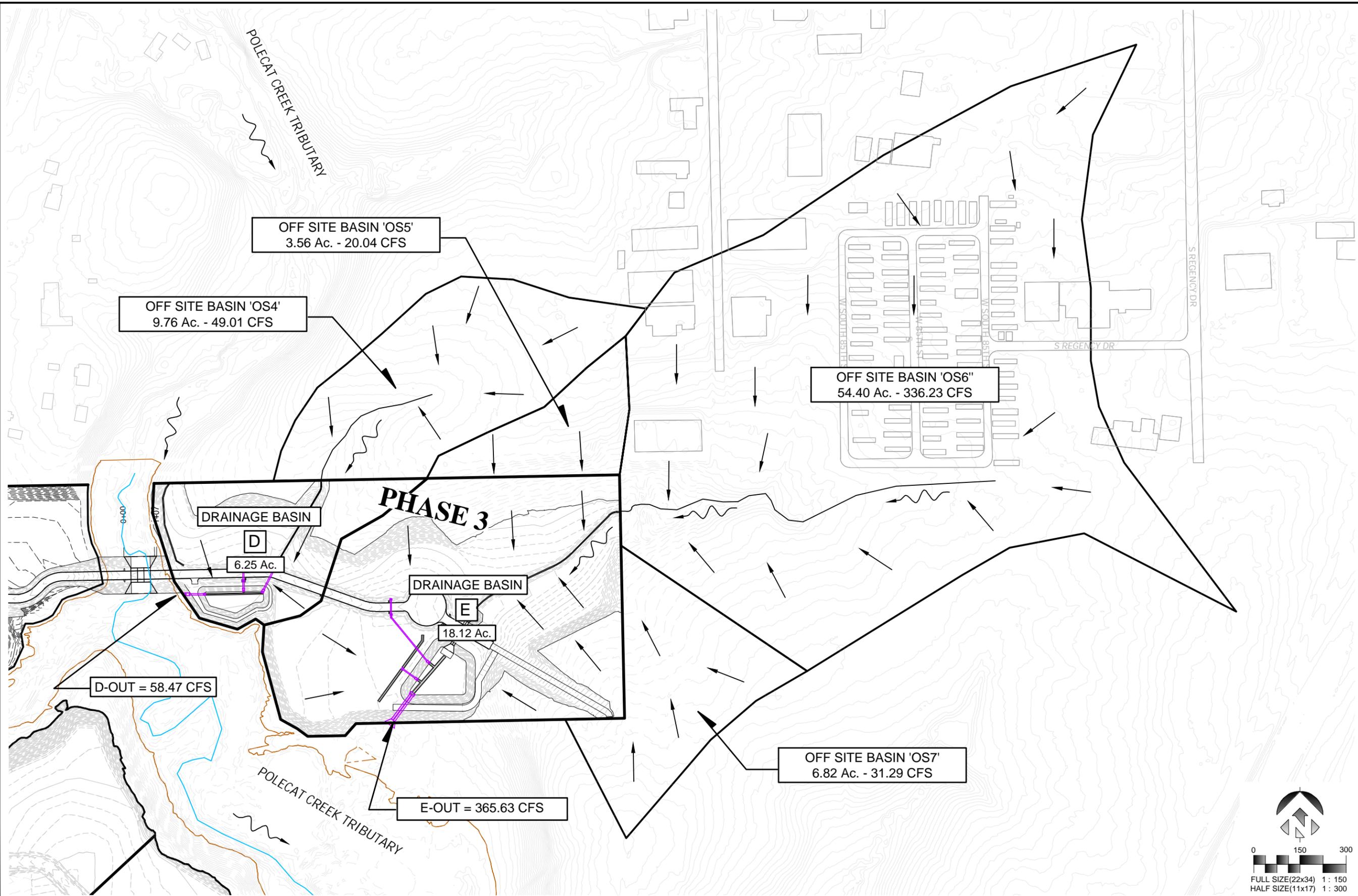
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

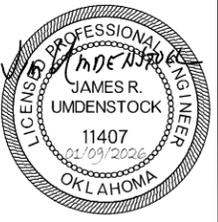
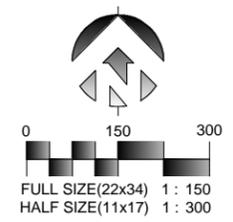
**PHASE 3 (ALT. 2)
PRE DEV DRAINAGE
OVERVIEW AND
OFFSITE**

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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 |
| SHEET: | 61 OF 80 |
| DRAWING: | H02 |

1/9/2026 9:55:33 AM



1 PHASE 3 - POST DEVELOPMENT DRAINAGE BAINS



Plans and Estimates Prepared by:

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



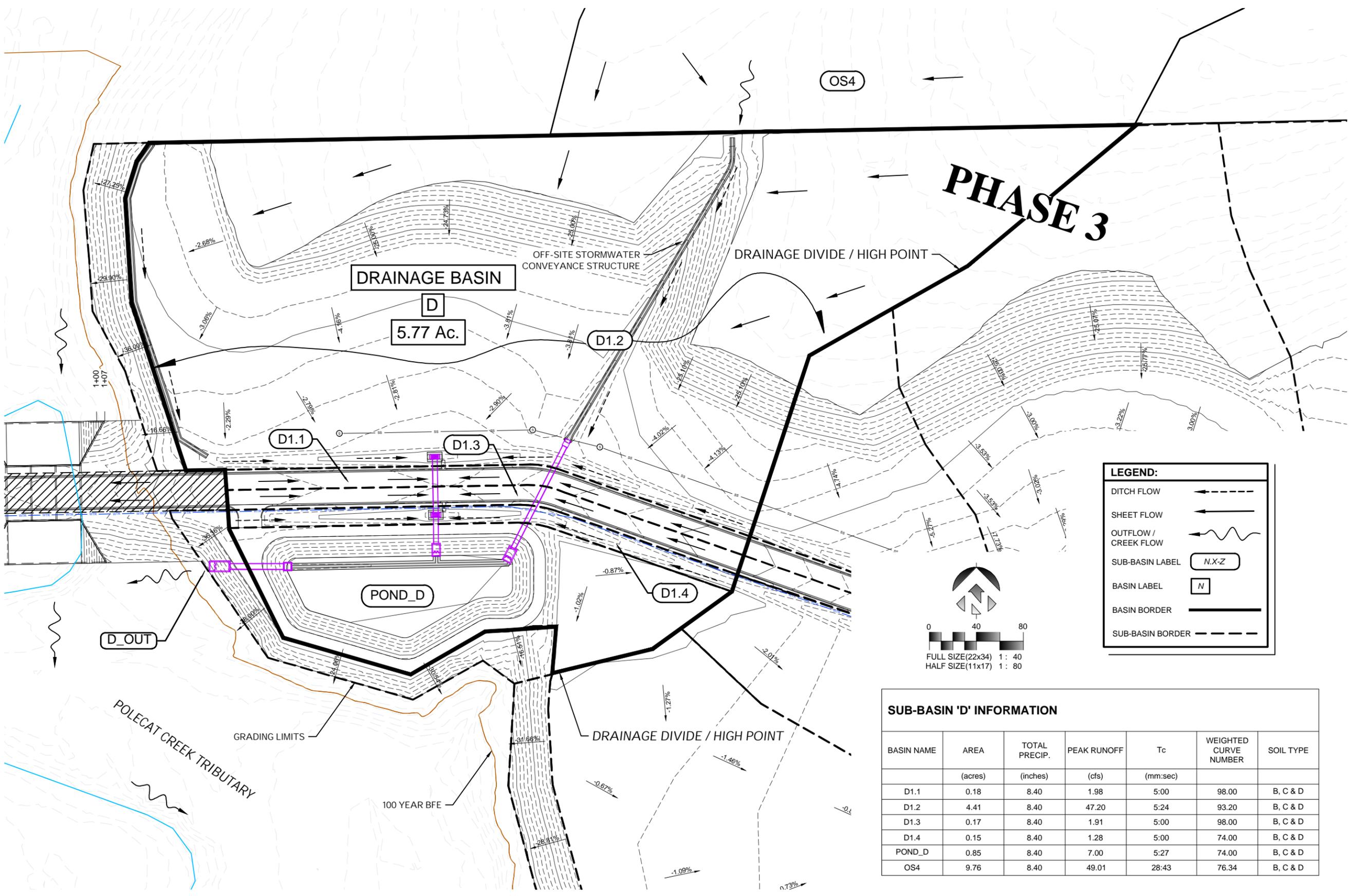
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 2 (ALT. 2)
POST DEVELOPMENT
DRAINAGE OVERVIEW
AND OFFSITE

| | |
|----------------|---------------------|
| 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: | 62 OF 80 |
| DRAWING: | H03 |

1/9/2026 9:55:41 AM



LEGEND:

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

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

SUB-BASIN 'D' INFORMATION

| BASIN NAME | AREA | TOTAL PRECIP. | PEAK RUNOFF | Tc | WEIGHTED CURVE NUMBER | SOIL TYPE |
|------------|---------|---------------|-------------|----------|-----------------------|-----------|
| | (acres) | (inches) | (cfs) | (mm:sec) | | |
| D1.1 | 0.18 | 8.40 | 1.98 | 5:00 | 98.00 | B, C & D |
| D1.2 | 4.41 | 8.40 | 47.20 | 5:24 | 93.20 | B, C & D |
| D1.3 | 0.17 | 8.40 | 1.91 | 5:00 | 98.00 | B, C & D |
| D1.4 | 0.15 | 8.40 | 1.28 | 5:00 | 74.00 | B, C & D |
| POND_D | 0.85 | 8.40 | 7.00 | 5:27 | 74.00 | B, C & D |
| OS4 | 9.76 | 8.40 | 49.01 | 28:43 | 76.34 | B, C & D |

1 PHASE 3 - DRAINAGE BASIN D SUB BASINS



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 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

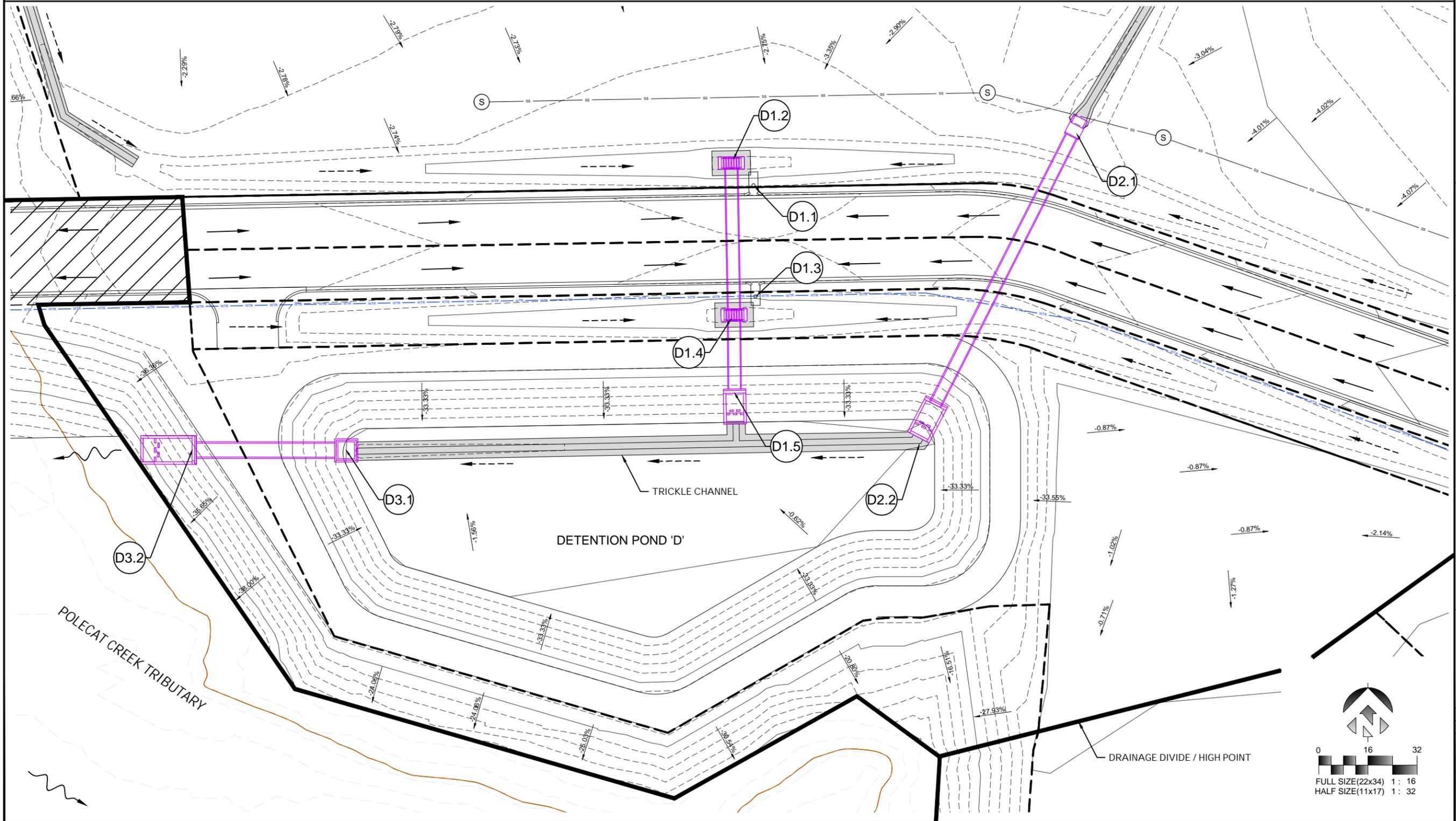
PHASE 3 (ALT. 2)
 DRAINAGE
 BASIN 'D'
 SUB-BASINS

| | |
|----------------|---------------------|
| 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 80 |
| DRAWING: | H05 |

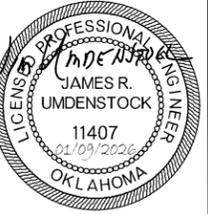
STRUCTURE AND BASIN INFO

DITCH AND PIPE ANALYSIS

| STRUCTURE NAME | DESCRIPTION | INLET SOURCE | RIM / INLET ELEVATION | OUTLET INVERT ELEVATION | Q100 THRU INLET | SLOPE | ROUGHNESS | DEPTH | 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. | Ft. | | | | CFS | FPS | (%) | LF | in. | | Ft. | - | - | |
| D1.1 | FLUME | D1.1 | 685.08 | 683.59 | 1.98 | 16.28 | 0.013 | - | 9.17 | - | - | - | - | - | - | - | - | - | - | - | - | D1.2 |
| D1.2 | DROP INLET | D1.2 | 683.49 | 680.72 | 47.96 | - | 0.013 | 2.77 | - | D1.2 | RCP | - | 47.96 | 7.90 | 0.52 | 46.31 | 29x45 | - | - | 0.013 | 0.74 | D1.4 |
| D1.3 | FLUME | D1.3 | 685.08 | 683.59 | 1.91 | 16.28 | 0.013 | - | 9.17 | - | - | - | - | - | - | - | - | - | - | - | - | D1.4 |
| D1.4 | DROP INLET | D1.4 | 683.49 | 680.48 | 1.28 | - | 0.013 | 3.01 | - | D1.4 | RCP | D1.2 | 51.04 | 8.89 | 0.68 | 29.50 | 29x45 | - | - | 0.013 | 0.7 | D1.5 / POND_D |
| D2.1 | DROP INLET | OS4 | 686.11 | 680.00 | 48.81 | - | 0.013 | 6.11 | - | D2.1 | RCP | - | 48.84 | 7.90 | 0.49 | 102.11 | 42 | - | - | 0.013 | 0.61 | D2.2 / POND_D |
| D3.1 | WEIR | POND_D | 685.00 | 678.70 | 58.31 | - | 0.013 | 6.30 | - | D3.1 | RCP | - | 58.31 | 7.23 | 0.37 | 59.48 | 42 | - | - | 0.013 | 0.78 | D3.2 / D_OUT |



1/9/2026 9:55:45 AM



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 8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7971



**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

**PHASE 3 (ALT. 2)
 DRAINAGE AREA
 'D' MAP**

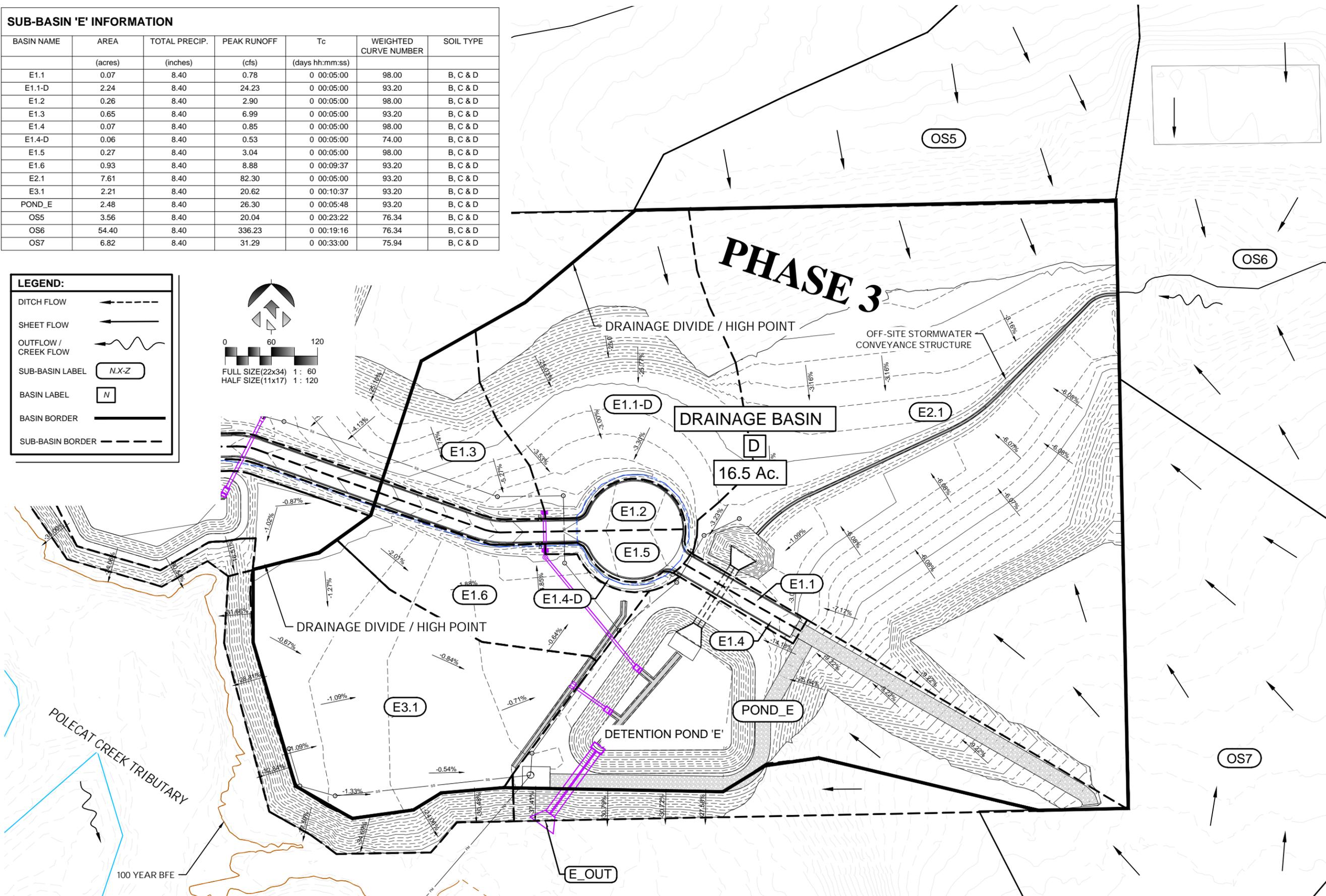
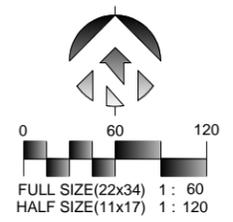
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|-----------------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | - |
| DATE | JANUARY 9, 2026 |
| SHEET: | 65 OF 80 |
| DRAWING: | H06 |

SUB-BASIN 'E' INFORMATION

| BASIN NAME | AREA | TOTAL PRECIP. | PEAK RUNOFF | Tc | WEIGHTED CURVE NUMBER | SOIL TYPE |
|------------|---------|---------------|-------------|-----------------|-----------------------|-----------|
| | (acres) | (inches) | (cfs) | (days hh:mm:ss) | | |
| E1.1 | 0.07 | 8.40 | 0.78 | 0 00:05:00 | 98.00 | B, C & D |
| E1.1-D | 2.24 | 8.40 | 24.23 | 0 00:05:00 | 93.20 | B, C & D |
| E1.2 | 0.26 | 8.40 | 2.90 | 0 00:05:00 | 98.00 | B, C & D |
| E1.3 | 0.65 | 8.40 | 6.99 | 0 00:05:00 | 93.20 | B, C & D |
| E1.4 | 0.07 | 8.40 | 0.85 | 0 00:05:00 | 98.00 | B, C & D |
| E1.4-D | 0.06 | 8.40 | 0.53 | 0 00:05:00 | 74.00 | B, C & D |
| E1.5 | 0.27 | 8.40 | 3.04 | 0 00:05:00 | 98.00 | B, C & D |
| E1.6 | 0.93 | 8.40 | 8.88 | 0 00:09:37 | 93.20 | B, C & D |
| E2.1 | 7.61 | 8.40 | 82.30 | 0 00:05:00 | 93.20 | B, C & D |
| E3.1 | 2.21 | 8.40 | 20.62 | 0 00:10:37 | 93.20 | B, C & D |
| POND_E | 2.48 | 8.40 | 26.30 | 0 00:05:48 | 93.20 | B, C & D |
| OS5 | 3.56 | 8.40 | 20.04 | 0 00:23:22 | 76.34 | B, C & D |
| OS6 | 54.40 | 8.40 | 336.23 | 0 00:19:16 | 76.34 | B, C & D |
| OS7 | 6.82 | 8.40 | 31.29 | 0 00:33:00 | 75.94 | B, C & D |

LEGEND:

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



1 Line 1
1/8" = 1'-0"
1/8" = 1'-0"



Plans and Estimates Prepared by:

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



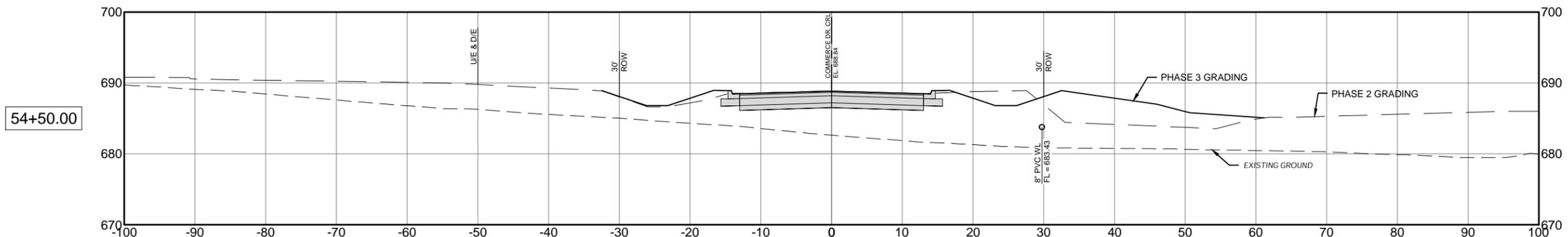
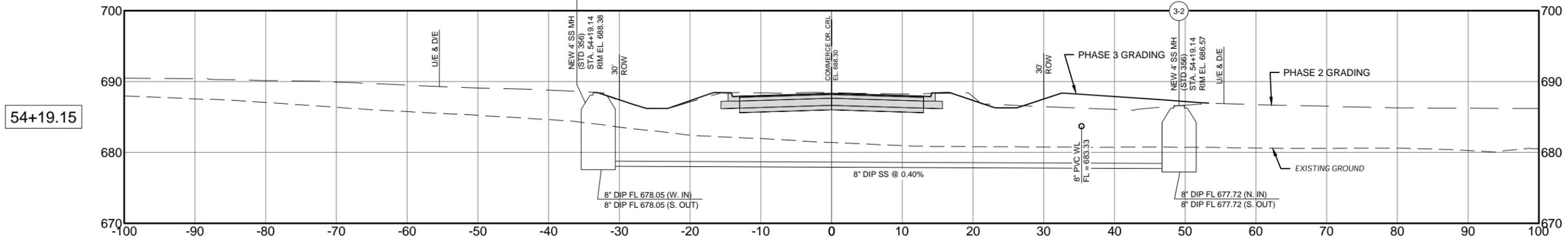
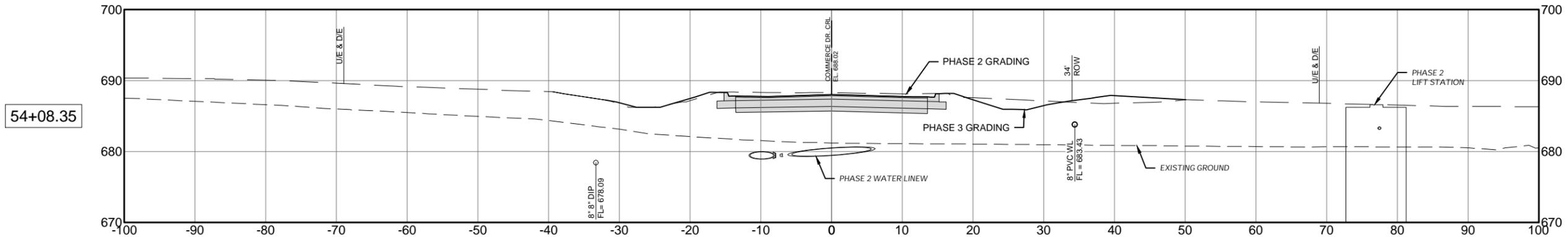
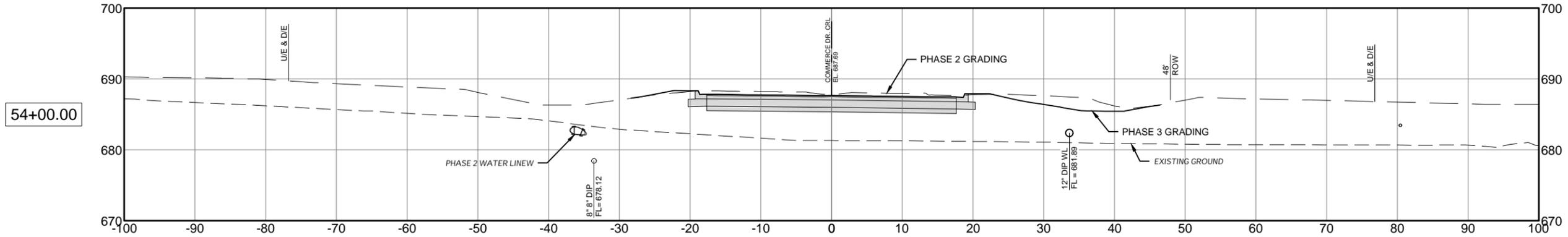
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2
SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
DRAINAGE BASIN
'E' SUB-BASINS

| | |
|----------------|---------------------|
| 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 80 |
| DRAWING: | H07 |

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1/9/2026 9:55:57 AM



Plans and Estimates Prepared by:

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



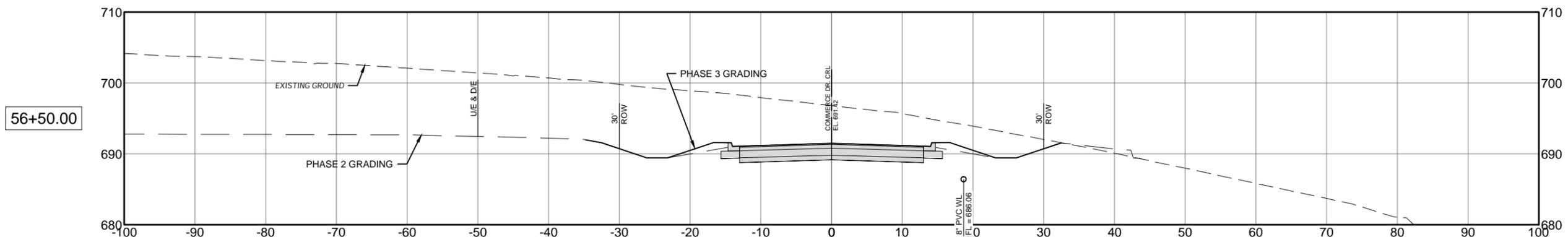
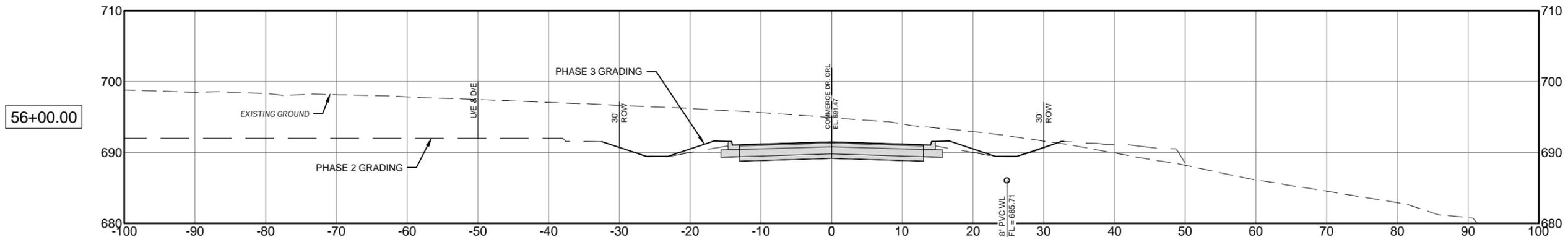
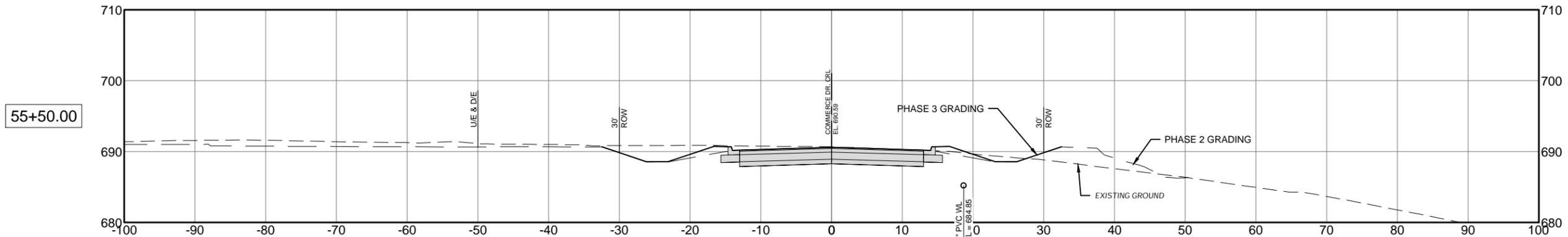
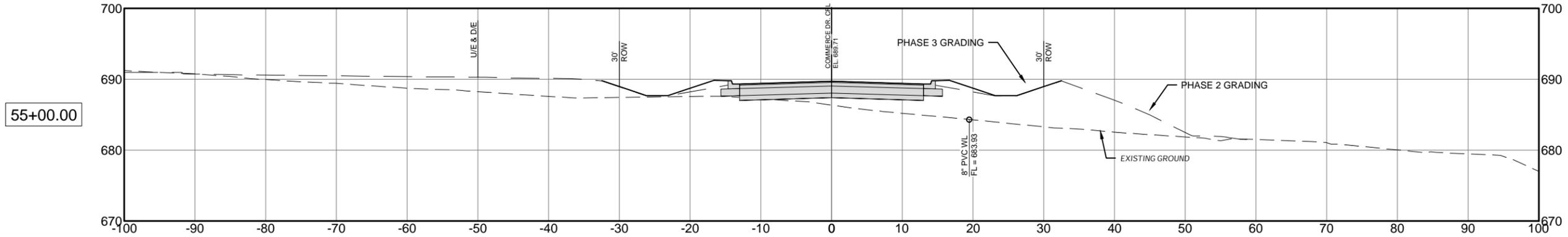
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 54+00 TO
STA 54+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: | 68 OF 80 |
| DRAWING: | X01 |

1/9/2026 9:55:59 AM



Plans and Estimates Prepared by:

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



**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 55+00 TO
STA 56+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: | 69 OF 80 |
| DRAWING: | X02 |



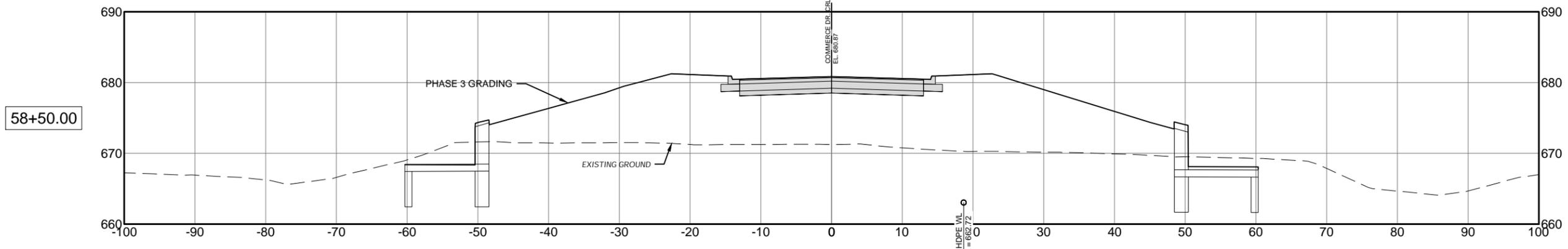
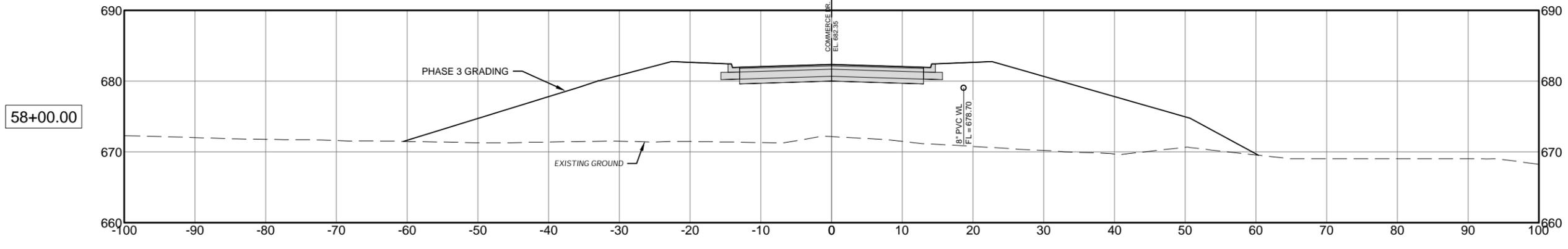
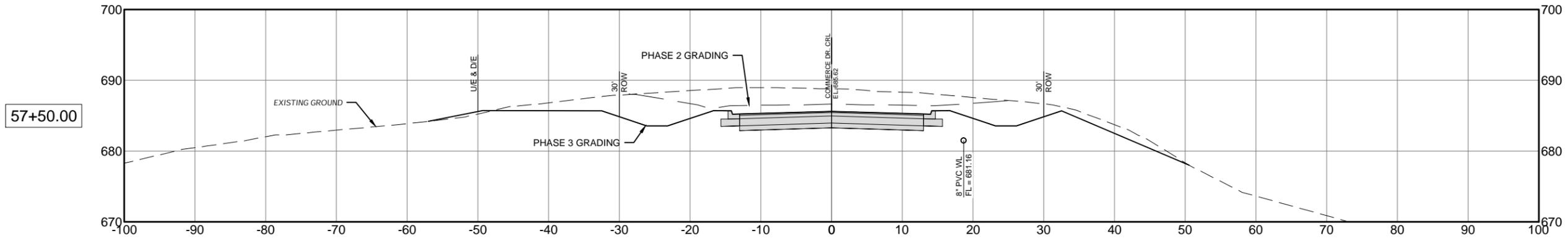
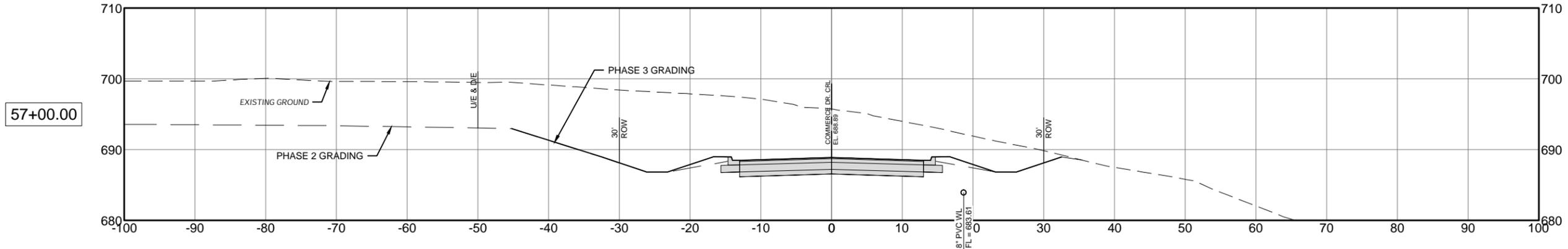
Plans and Estimates Prepared by:
KE KEITHLINE ENGINEERING GROUP
 8554 E. 101ST ST., STE C TULSA, OKLAHOMA 74133 (918) 369-7911



**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**
 SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA

**PHASE 3 (ALT. 2)
 CROSS SECTIONS
 STA 57+00 TO
 STA 58+50**

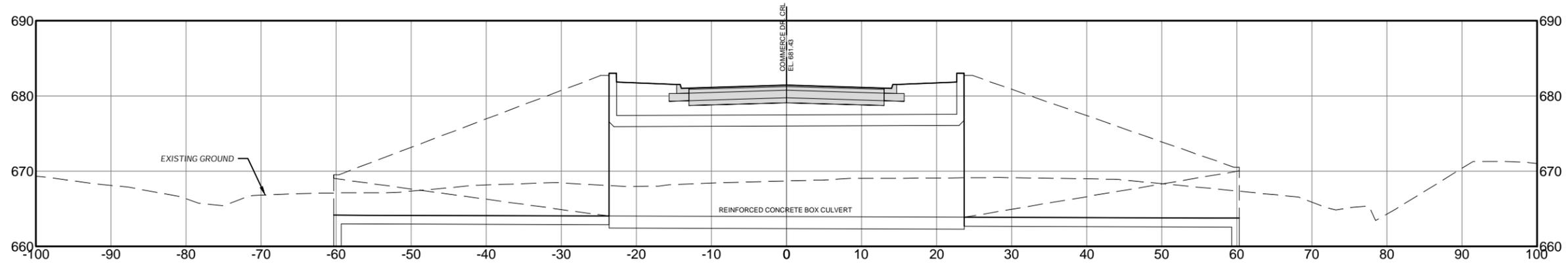
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|----------------|---------------------|
| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRU, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
| DATE | JANUARY 9, 2026 |
| SHEET: | 70 OF 80 |
| DRAWING: | X03 |



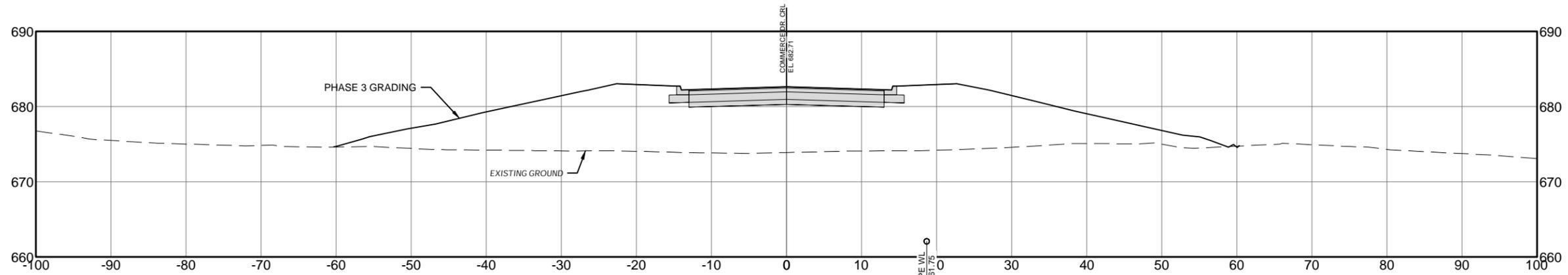
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1/9/2026 9:56:01 AM

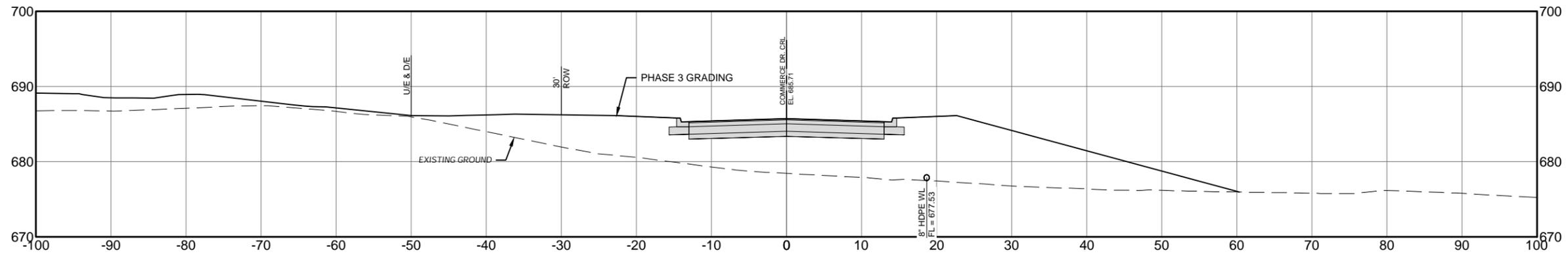
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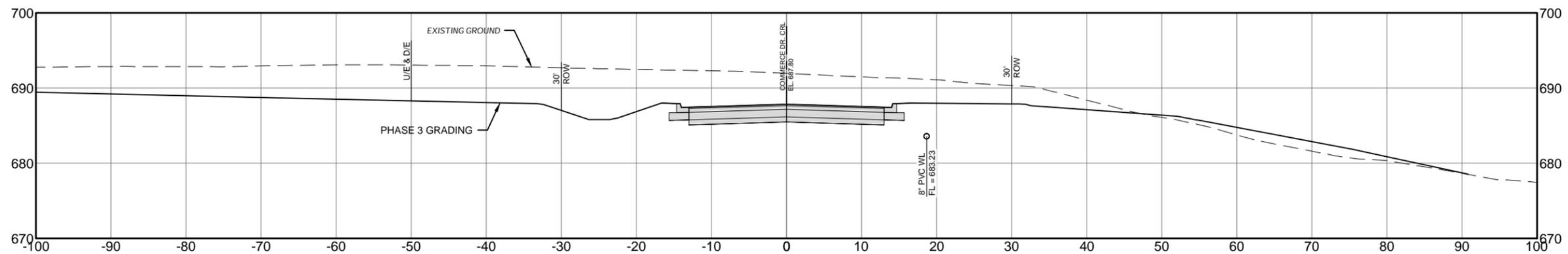
59+50.00



60+00.00



60+50.00



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

| REVISION | DATE | BY |
|----------|------|----|
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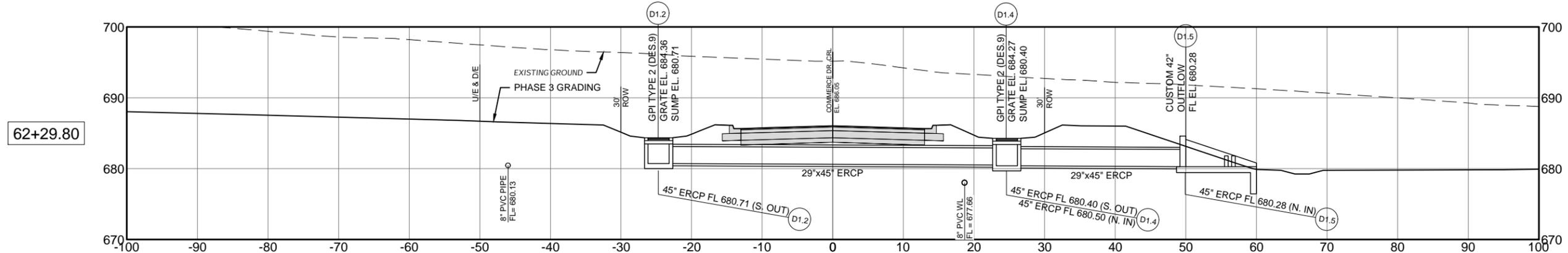
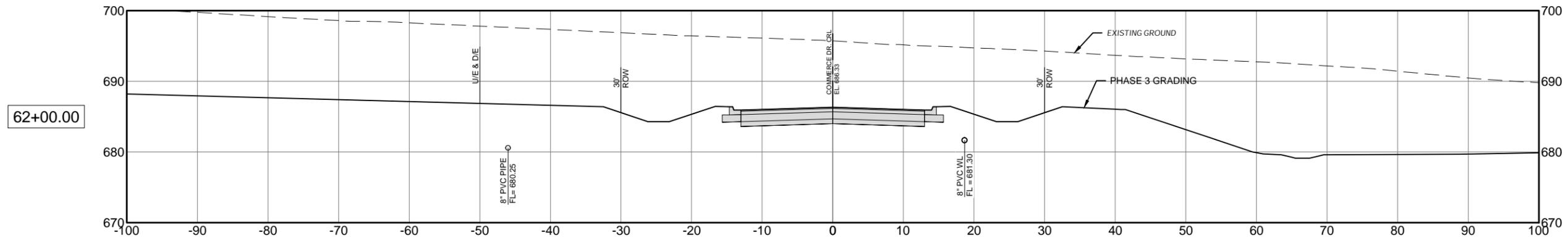
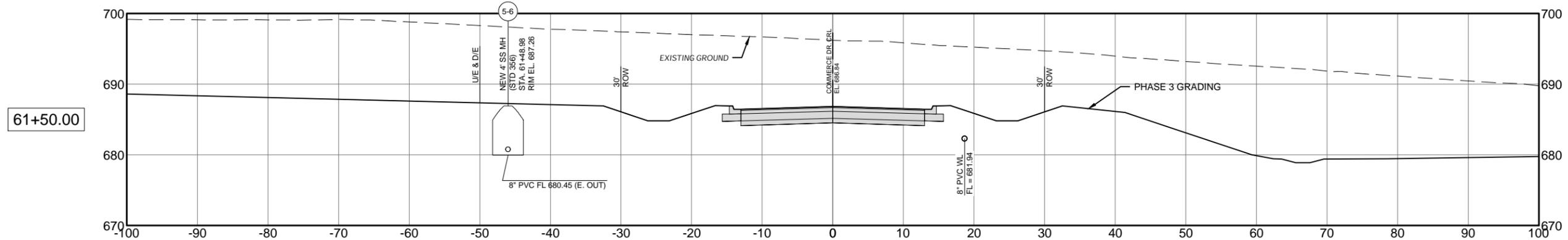
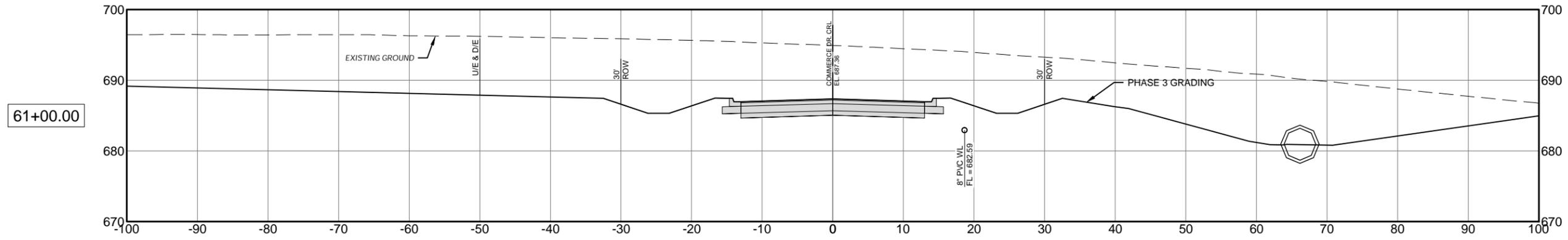
**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
 CROSS SECTIONS
 STA 59+00 TO
 STA 60+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: | 71 OF 80 |
| DRAWING: | X04 |

1/9/2026 9:56:02 AM



Plans and Estimates Prepared by:

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



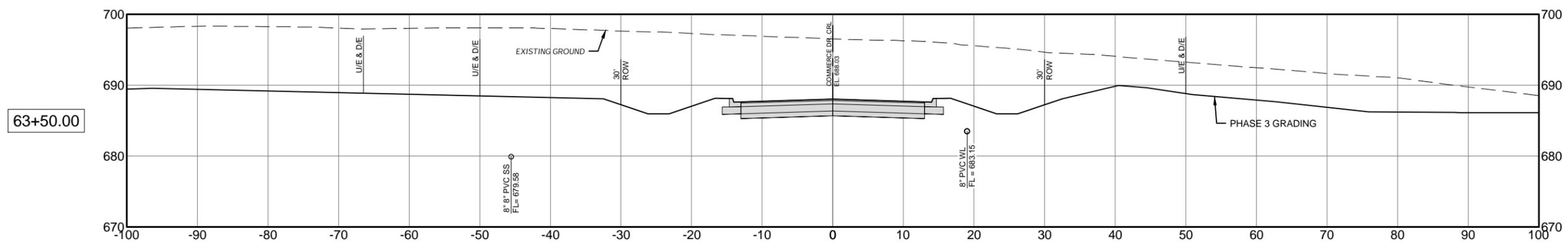
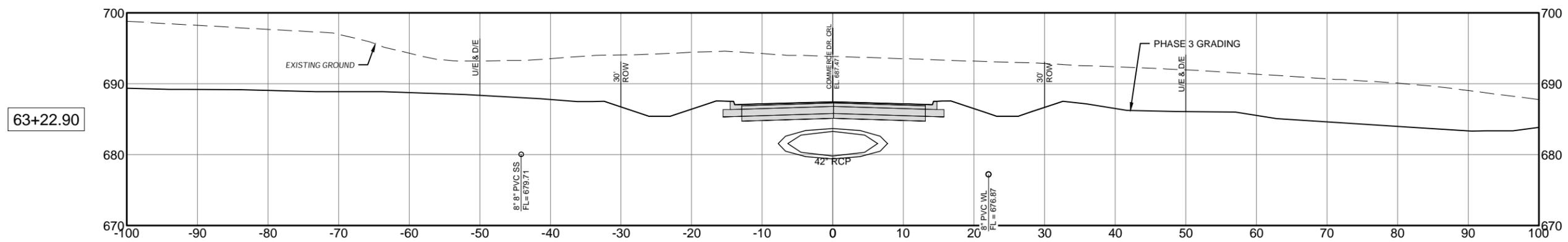
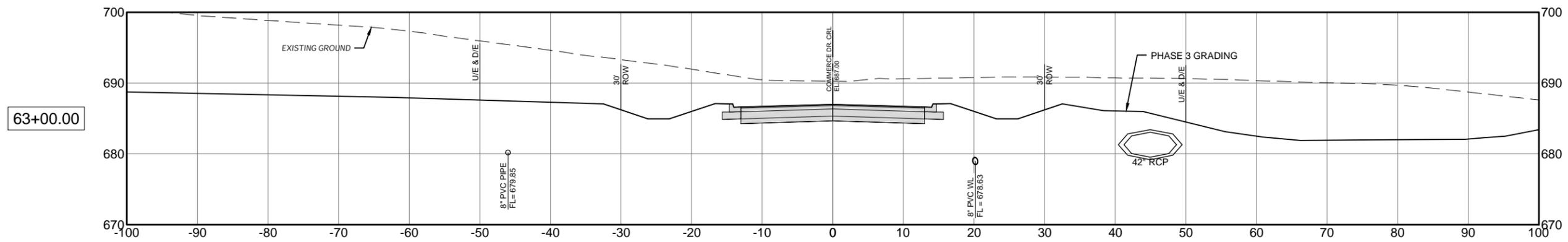
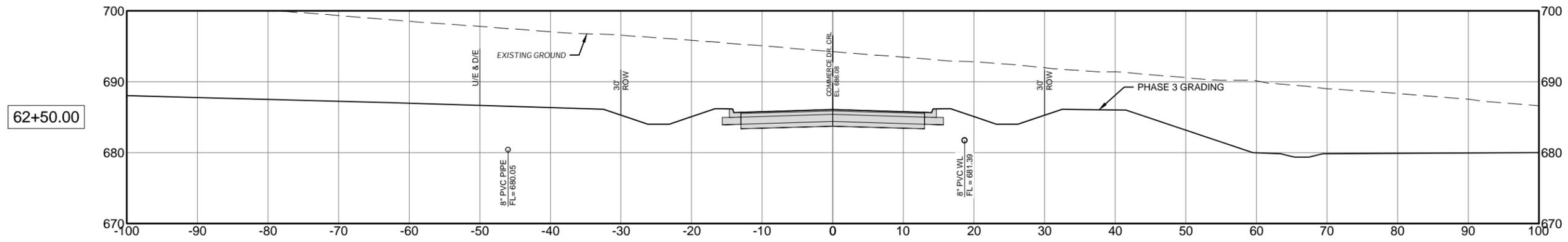
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 61+00 TO
STA 62+29.80

| | |
|----------------|---------------------|
| 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: | 72 OF 80 |
| DRAWING: | X05 |

1/9/2026 9:56:03 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 | |



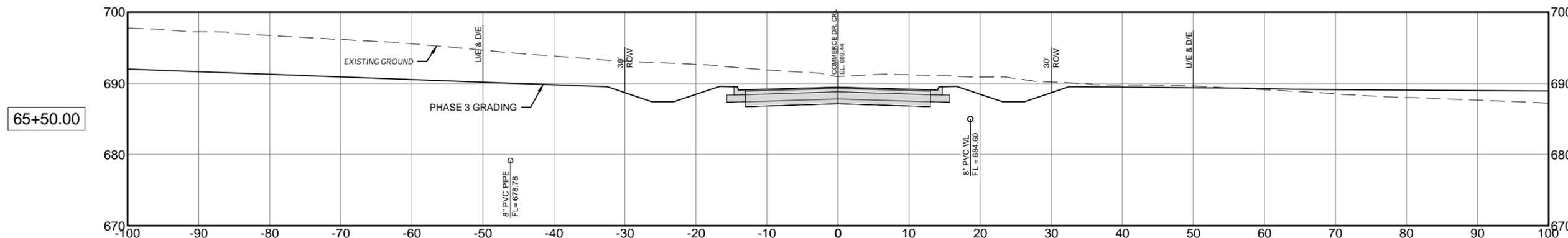
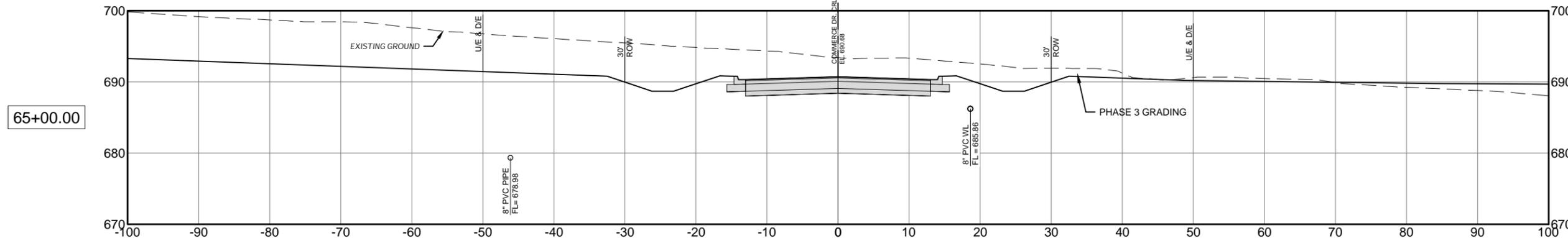
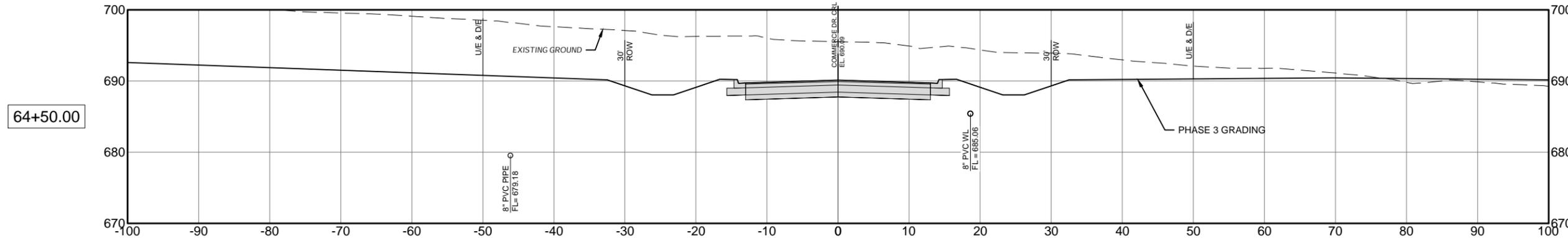
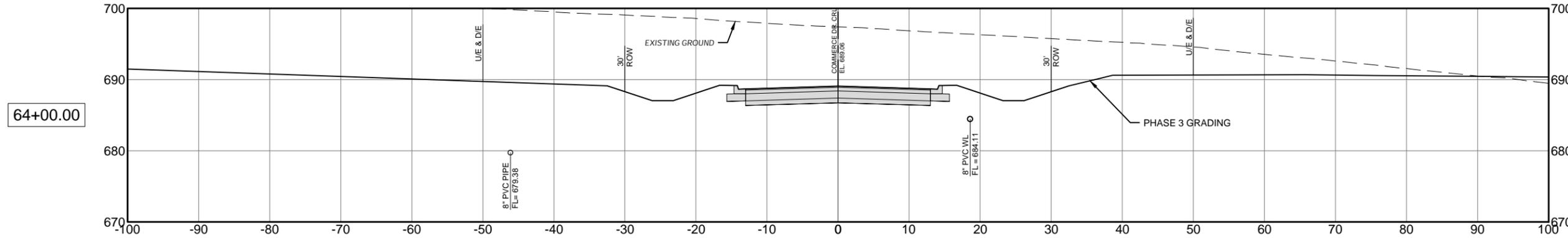
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 62+50 TO
STS 63+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: | 73 OF 80 |
| DRAWING: | X06 |

1/9/2026 9:56:04 AM



Plans and Estimates Prepared by:

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



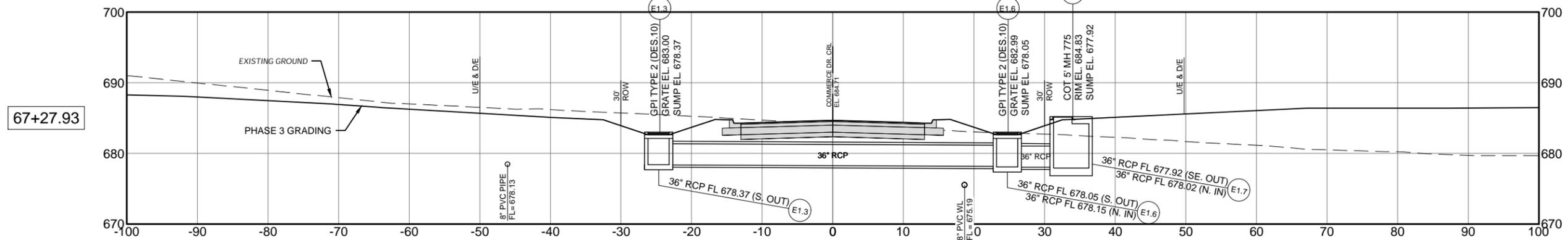
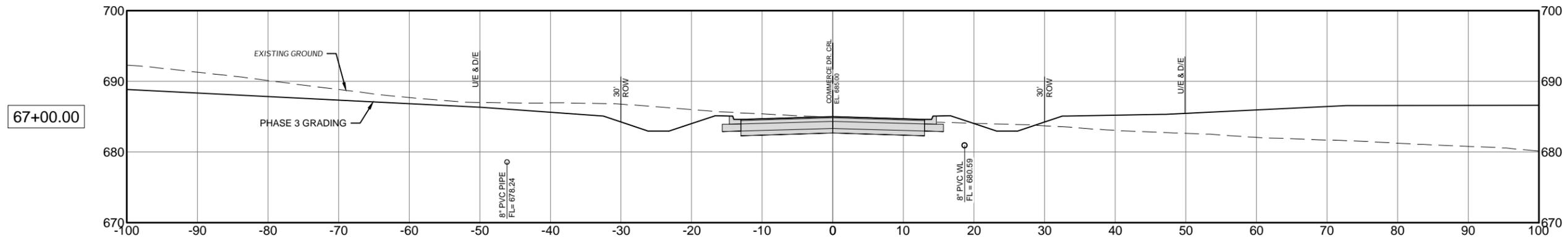
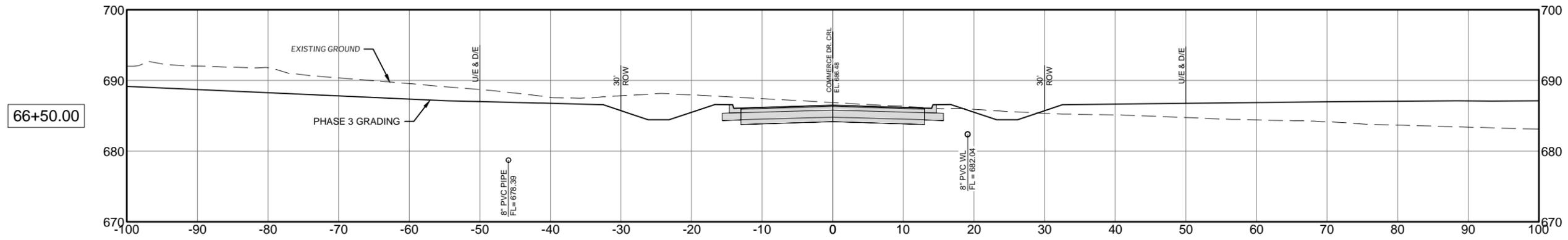
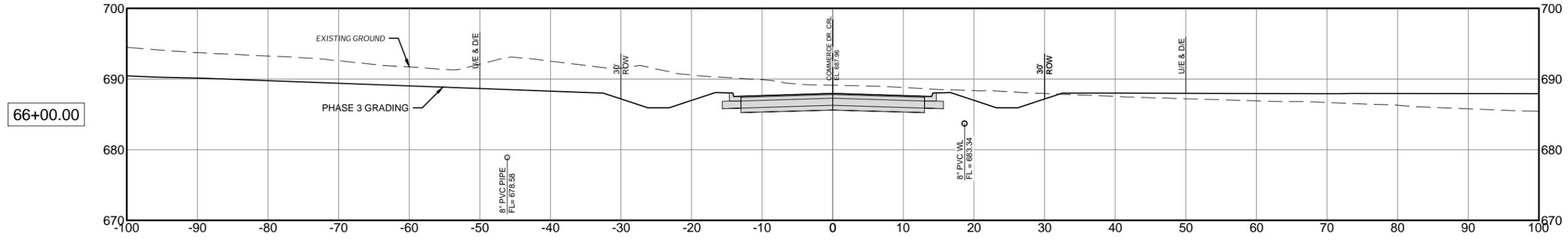
ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2

SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA

PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 64+00 TO
STA 65+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: | 74 OF 80 |
| DRAWING: | X07 |

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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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| REVISION | |



**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 66+00 TO
STA 67+27.93**

| | |
|----------------|---------------------|
| 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: | 75 OF 80 |
| DRAWING: | X08 |



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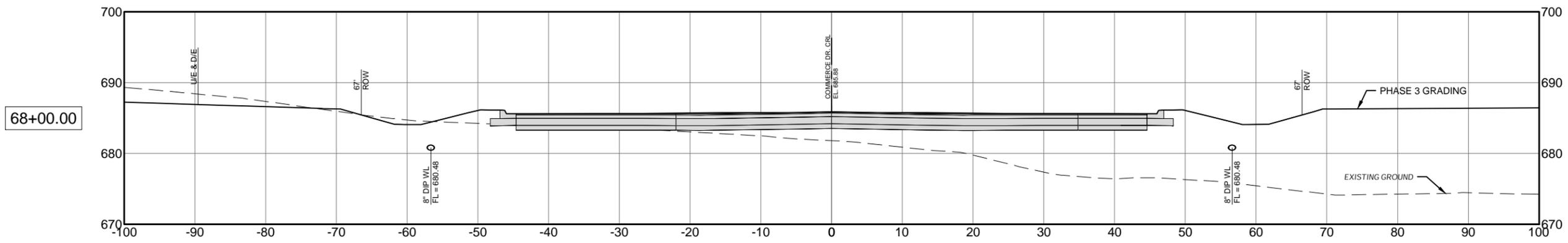
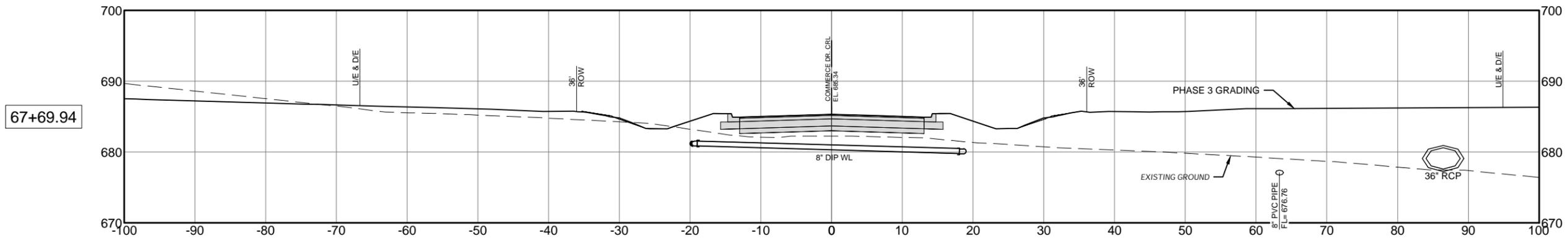
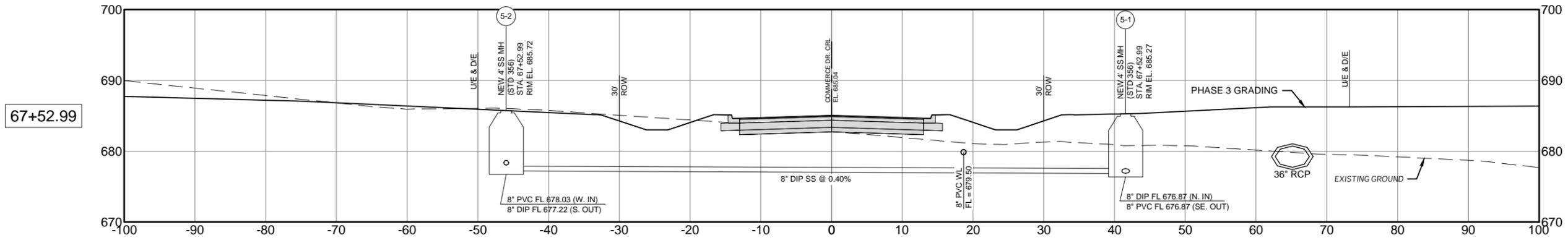
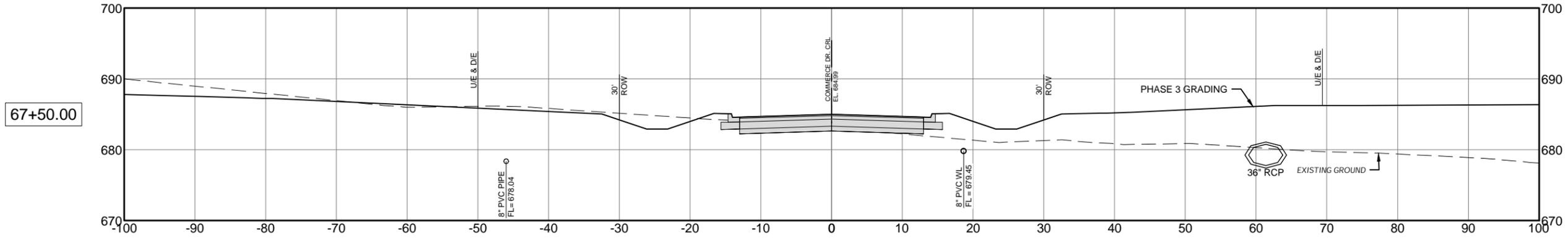


**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

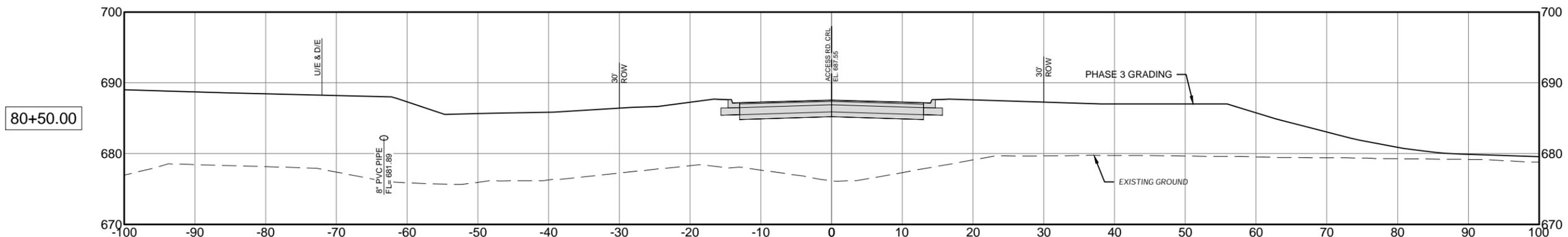
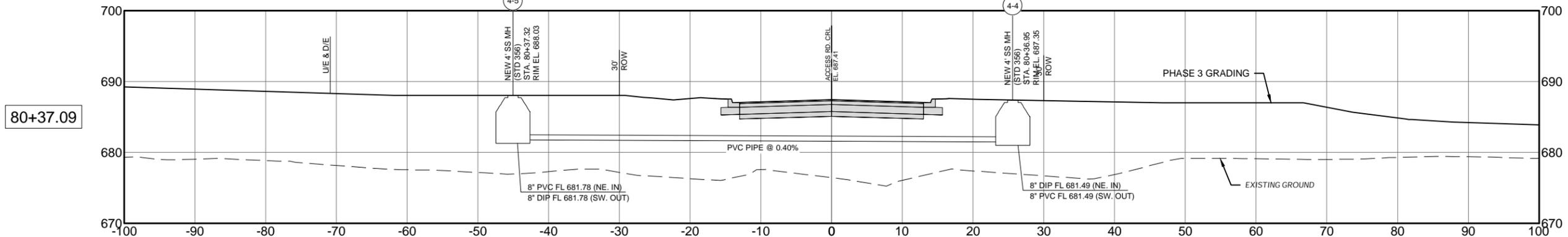
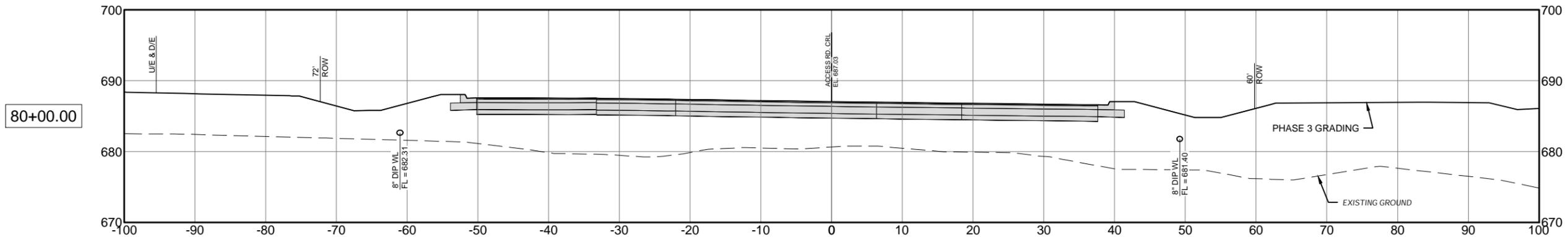
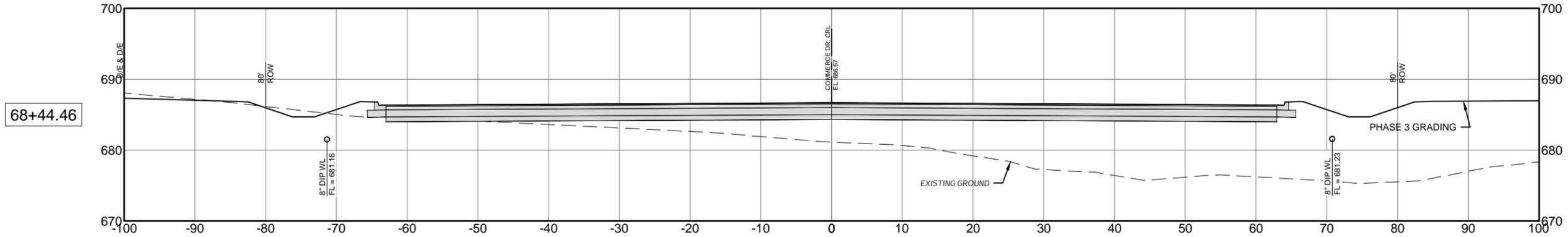
**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 67+50 TO
STA 68+00**

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|-----------------|---------------------|
| 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: | 76 OF 80 |
| DRAWING: | X09 |



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| | BY | |
| | REVISION | |



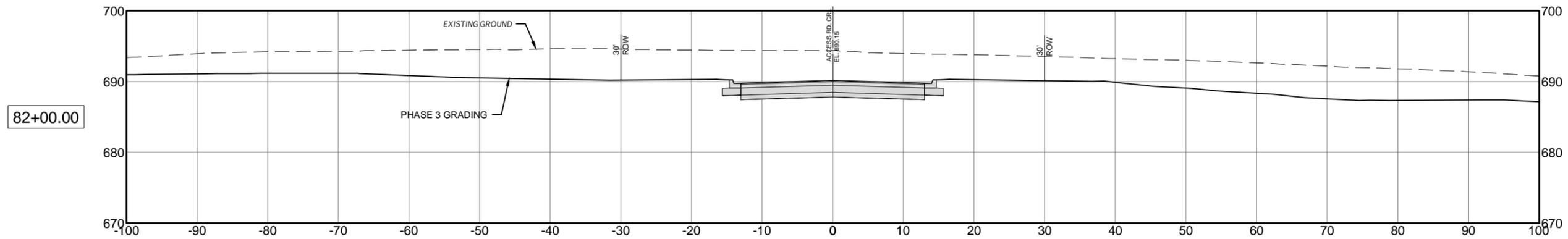
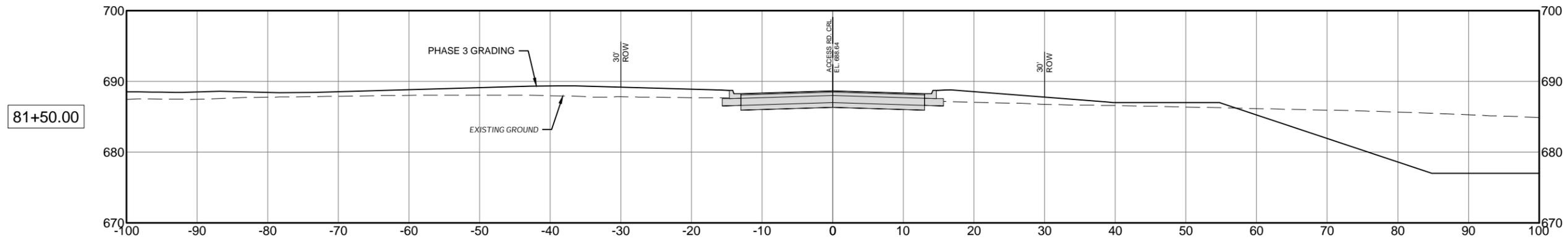
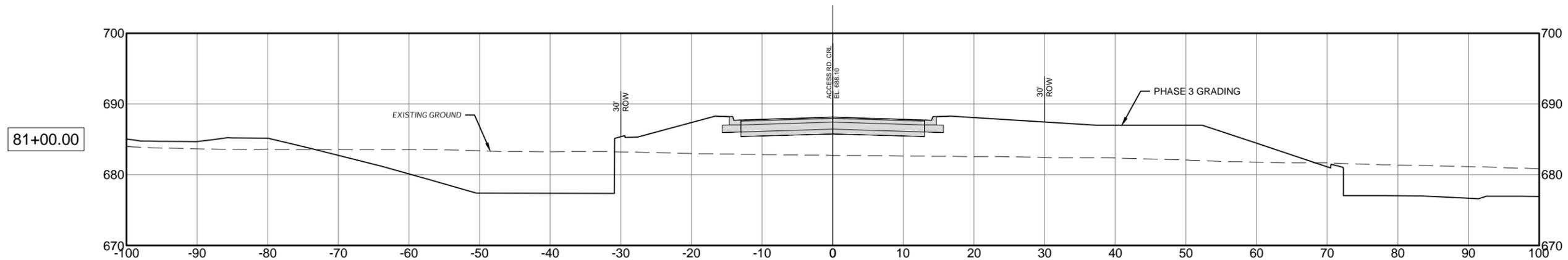
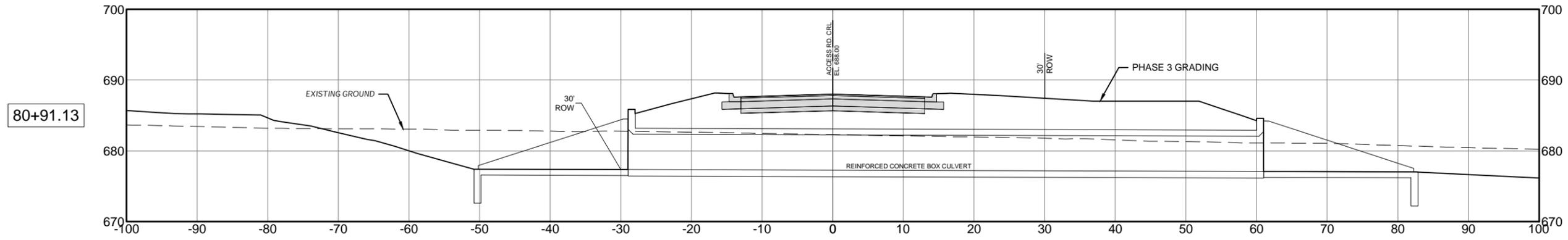
**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 68+44.46 TO
STA 80+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: | 77 OF 80 |
| DRAWING: | X10 |

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| REVISION | |
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**ROUTE 66 INDUSTRIAL PARK
 PHASE 3 - ALTERNATE 2**

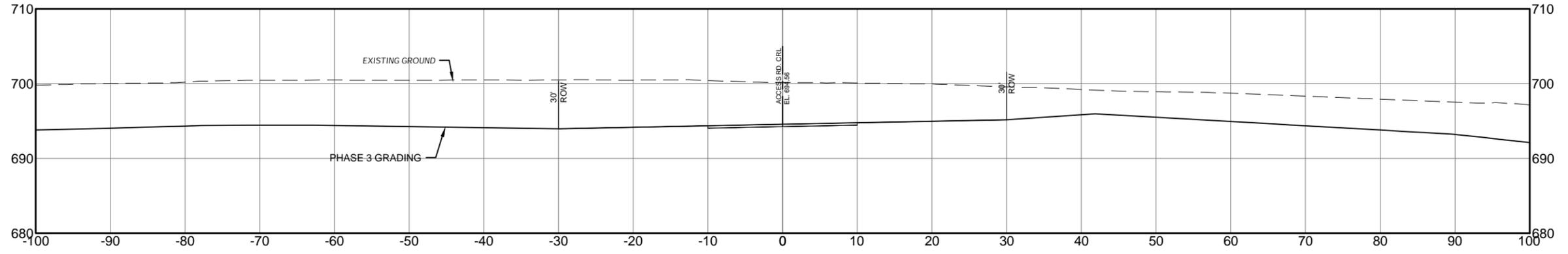
**SAPULPA DEVELOPMENT AUTHORITY
 SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
 CROSS SECTIONS
 STA 80+91.13 TO
 STA 82+00**

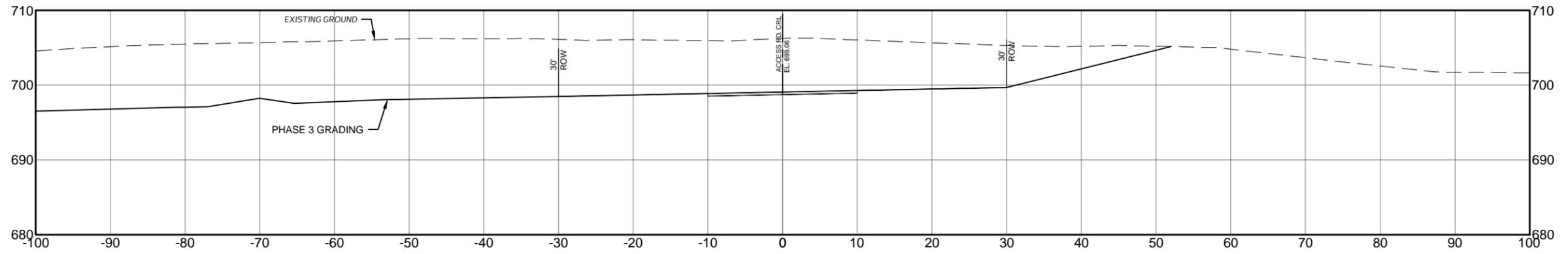
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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
| DATE: | JANUARY 9, 2026 |
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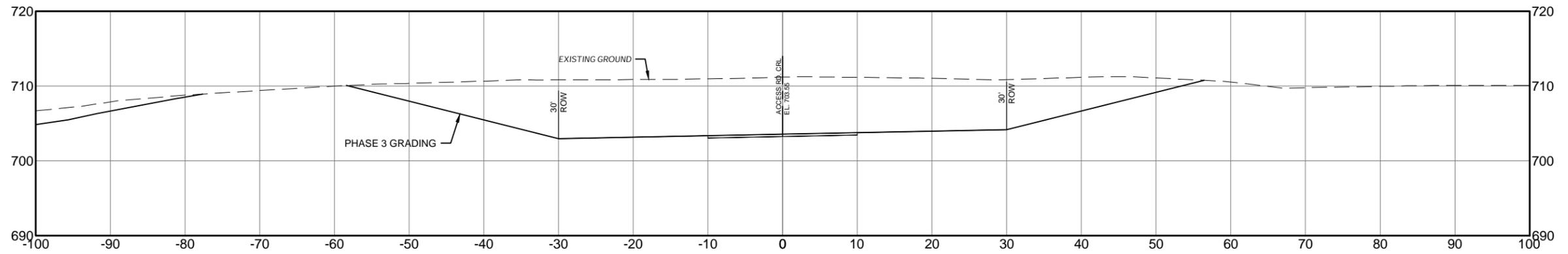
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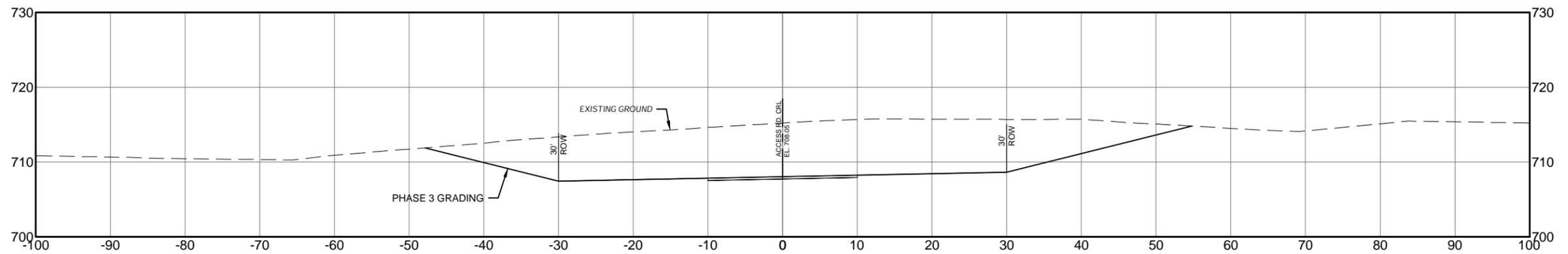
83+00.00



83+50.00



84+00.00



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**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

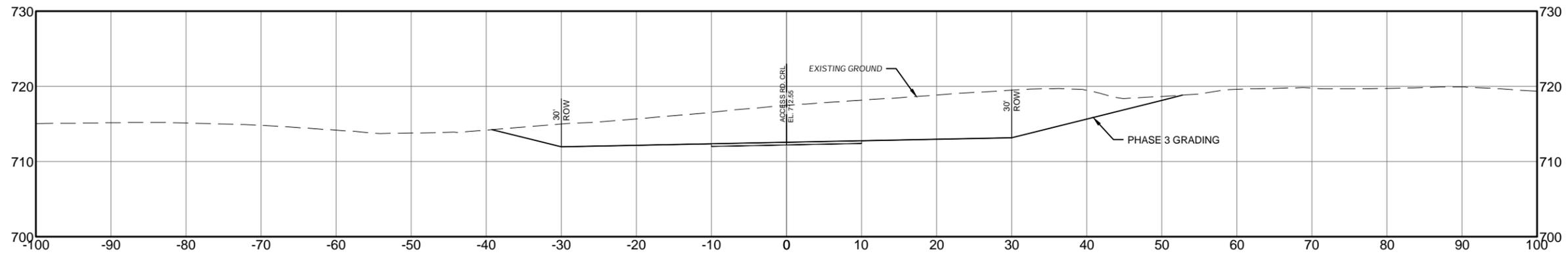
**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA 82+50 TO
STA 84+00**

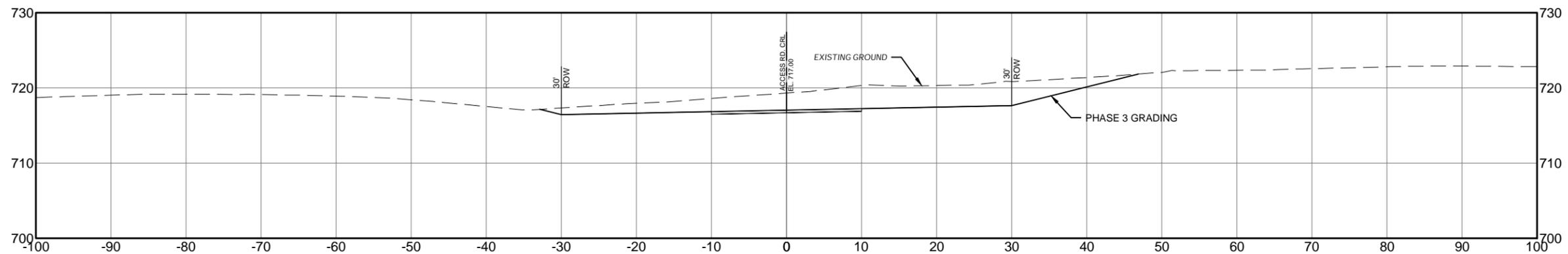
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| PROJECT # | 24.11 |
| SURVEY | AJN (FLS) 12/2024 |
| DESIGNED | DAK, JRJ, MAW (KEG) |
| DRAWN | ZLM, AK, MAW (KEG) |
| ATLAS PAGE NO. | -- |
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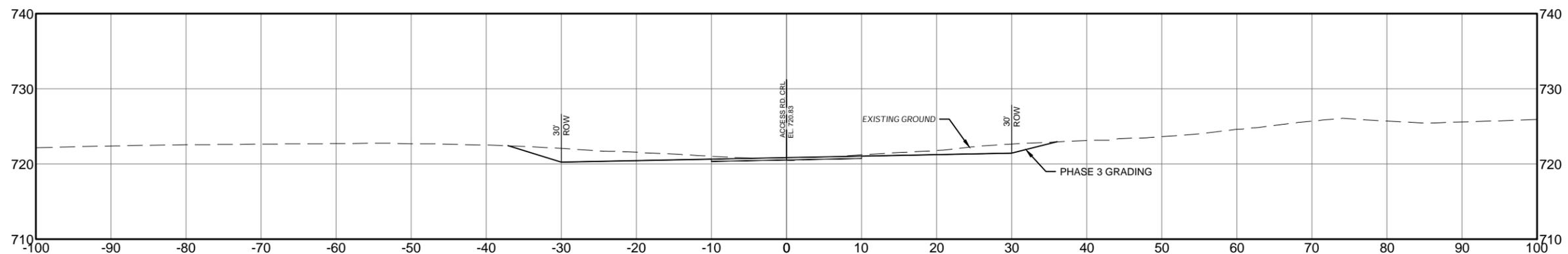
84+50.00



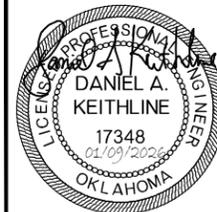
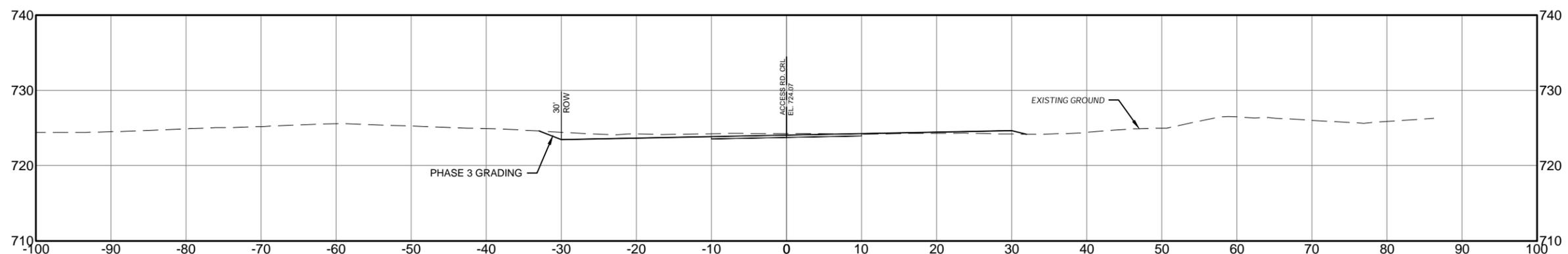
85+00.00



85+50.00



86+00.00



Plans and Estimates Prepared by:

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**ROUTE 66 INDUSTRIAL PARK
PHASE 3 - ALTERNATE 2**

**SAPULPA DEVELOPMENT AUTHORITY
SAPULPA, OKLAHOMA**

**PHASE 3 (ALT. 2)
CROSS SECTIONS
STA. 84+50 TO
STA. 86+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: | 80 OF 80 |
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