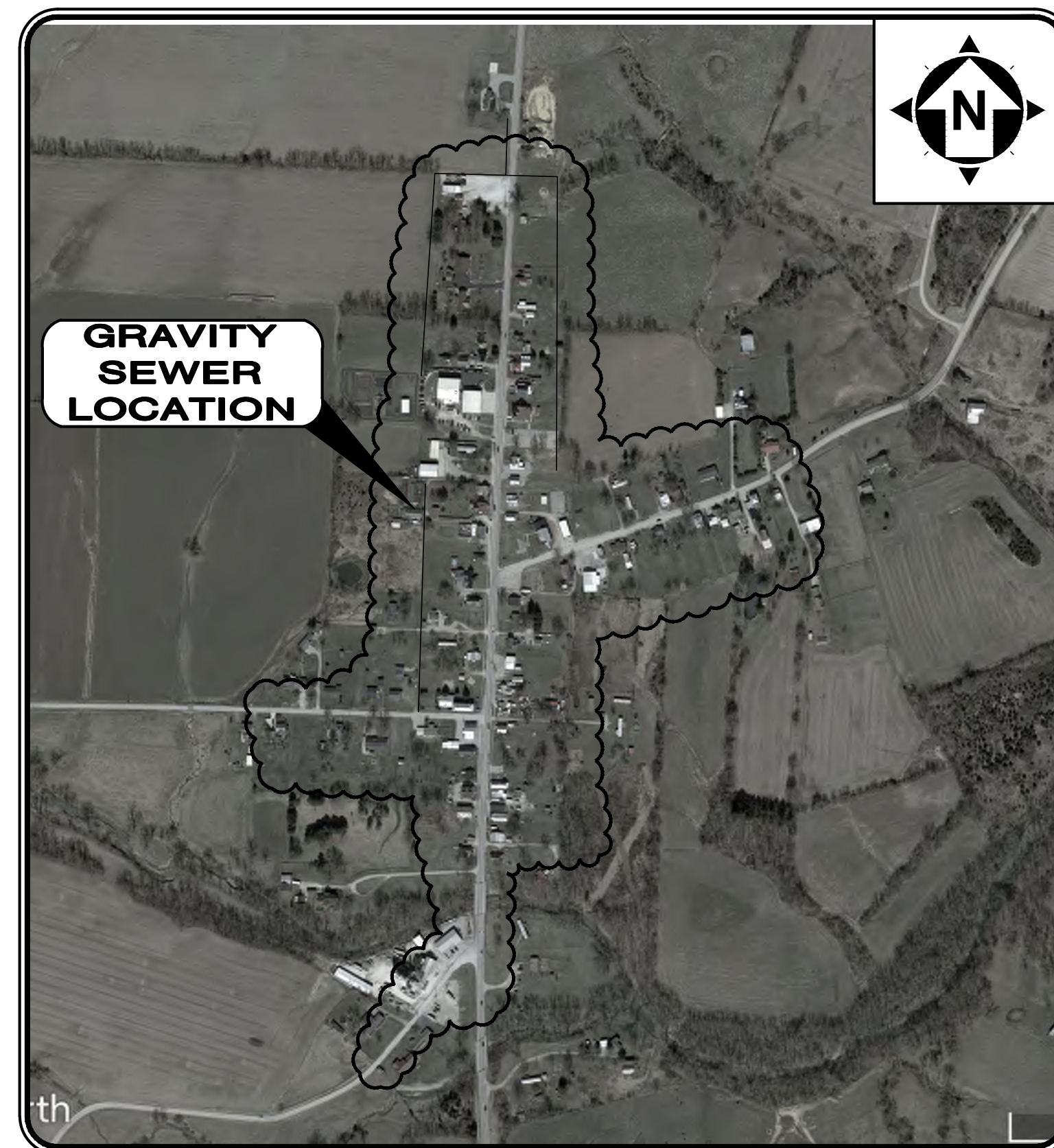
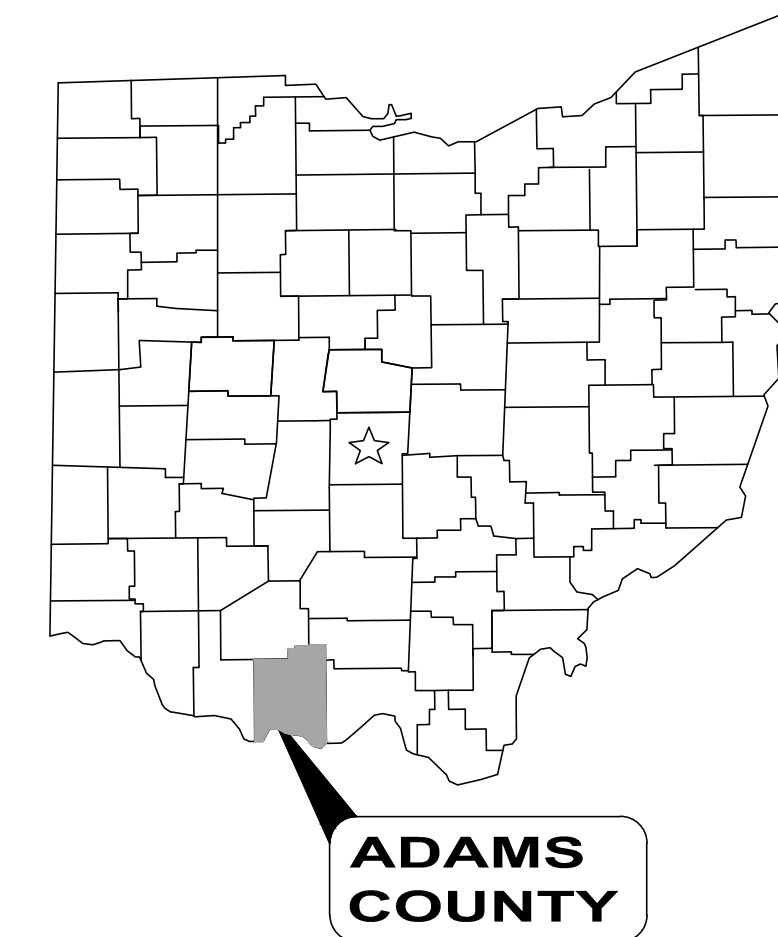


# ADAMS COUNTY ECONOMIC AND COMMUNITY DEVELOPMENT

## CHERRY FORK SANITARY SEWER

ADAMS COUNTY, OHIO

FEBRUARY 2024



LOCATION MAP  
NOT TO SCALE

**ADMINISTRATION:**

PAUL WORLEY DIRECTOR  
JENNI HUPP ASSISTANT DIRECTOR

**COUNCIL:**

TERESA DIANE WARD MEMBER  
BARBARA MOORE MEMBER  
KELLY JONES MEMBER  
TERRI CROTHERS CLERK

**APPROVALS:**

*Paul Worley*  
PAUL WORLEY - DIRECTOR 2/27/24 DATE

**OFFICE:**

215 N. CROSS STREET  
SUITE 101  
WEST UNION, OH 45693  
(937) 544-5151 PHONE

**ENGINEER:**

CT CONSULTANTS, INC.  
4420 COOPER ROAD, SUITE 200  
CINCINNATI, OH 45242  
(513) 791-1700 PHONE  
(513) 791-1935 FAX

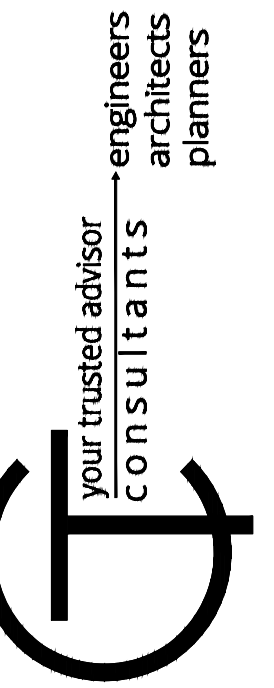
*Kent A. Bryan*  
KENT A. BRYAN P.E. No. E-57734 2-27-2024 DATE



- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



ENGINEER'S PROJECT No. 220432



ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	OCTOBER 2023	AS SHOWN	JCOR	JCOR	KBRY

ADAMS COUNTY ECONOMIC DEVELOPMENT  
CHERRY FORK SANITARY SEWER  
ADAMS COUNTY, OHIO  
TITLE SHEET

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	TTL
SHEET	OF
1	43



**MATERIALS AND SPECIFICATIONS**

IN GENERAL, UNLESS SPECIFICALLY SET FORTH HEREIN, THE WORK AND MATERIALS SHALL CONFORM TO THE APPLICABLE DIVISIONS AND PARAGRAPHS OF THE MOST CURRENT EDITIONS OF THE: STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSES CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP.

ALL ITEMS OF EQUIPMENT AND/OR MATERIAL PROPOSED BY THE CONTRACTOR FOR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRES ENGINEERING REVISIONS, THE TOTAL EXPENSE OF SAID REVISIONS SHALL BE PAID BY THE CONTRACTOR.

ANY ITEMS OF LABOR AND MATERIALS REQUIRED BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT, EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

**PERMITS**  
OEPA PFI PERMITS, ODOT PERMITS, AND ANY BUILDING, ELECTRIC, OR PLUMBING PERMITS ARE THE RESPONSIBILITY OF THE OWNER.

**RESPONSIBILITY**  
BY SUBMITTING A BID, OR STARTING CONSTRUCTION, THE CONTRACTOR CERTIFIES THAT THE CONTRACTOR SHALL VISIT THE SITE AND BE SATISFIED THAT HE UNDERSTANDS ALL SITE CONDITIONS THAT MAY HAVE AN EFFECT ON HIS PRICE AND CONSTRUCTION SCHEDULE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FEATURE, (I.E. EXISTING INLETS, CONDUITS, ETC.) WHICH IS NOT MARKED FOR REPLACEMENT OR REMOVAL. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE OPERATIONS OF THE CONTRACTOR, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

IN SOME INSTANCES, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE UNDER AND AROUND THE EXISTING UTILITIES. EXTREME CARE SHOULD BE USED NOT TO DAMAGE THE UTILITY DURING THIS OPERATION.

**UNDERGROUND UTILITIES**  
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE AND TO THE BEST ABILITY OF THE ENGINEER. IT SHALL BE FINAL RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE UTILITY AS TO LINE AND GRADE BEFORE STARTING ANY OPERATION THAT INTERFERES WITH THE UTILITY.

UTILITIES NOT UNDERGROUND, AND PRIVATE LEECH FIELDS IN SINGLE OR DOUBLE FAMILY DWELLINGS UTILIZED FOR ONLY THAT DWELLING AND NOT CONNECTED TO ANY OTHER SYSTEM ARE NOT INCLUDED ON THE PLAN.

THE UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON INFORMATION RECEIVED FROM OTHERS AND HAS NOT BEEN VERIFIED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE UTILITY AS TO BOTH LOCATION AND ELEVATION AND CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE.

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICES, AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE DRAWINGS.

THE FOLLOWING IS A PARTIAL LIST OF UTILITY OWNERS IDENTIFIED WITH THE PROJECT AREA. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE RESPECTIVE PUBLIC SERVICE CORPORATIONS AS LISTED:

**OHIO UTILITIES PROTECTION SERVICE**  
(800) 362-2764  
(614) 715-2984

**TELEPHONE:**  
FRONTIER NORTH  
7533 SR 125  
(800) 921-8101

**CABLE:**  
SPECTRUM  
(800) 892-4357  
(800) 544-6900

**GAS:**  
DUKE ENERGY  
139 E. 4TH ST  
CINCINNATI, OH. 45202

**ELECTRIC:**  
AEP OHIO  
3225 SCIOTO TRAIL  
PORTSMOUTH, OH. 45662  
(800) 672-2231

**WATER:**  
ADAMS COUNTY REGIONAL  
WATER DISTRICT  
9203 SR 136  
WEST UNION, OHIO  
(937) 544-2396

**SEWER:**  
VILLAGE OF WINCHESTER  
24 WEST WASHINGTON STREET  
WINCHESTER, OHIO 45697  
(937) 695-0880

**COOPERATION WITH UTILITIES:**  
THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL PUBLIC OR PRIVATE UTILITY FACILITIES DURING CONSTRUCTION. SHOULD IT BECOME NECESSARY TO MOVE, ADJUST OR TEMPORARILY RELOCATE ANY SUCH FACILITY, THE WORK SHALL BE DONE BY THE OWNER OF THE UTILITY FACILITY. ANY DAMAGE TO UTILITY FACILITIES BY THE CONTRACTOR OR HIS SUBCONTRACTORS WILL BE REPAIRED BY THE OWNER OF THE SAID UTILITY AND THE COST OF SAID REPAIRS WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR TO SEND PROOF OF PAYMENT TO THE UTILITY FOR THE REPAIR TO THE OWNER, PRIOR TO FINAL PAYMENT.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES

IN THEIR PRESENT OR RELOCATED POSITIONS AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED BY HIM DUE TO ANY INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM.

**CONSTRUCTION LAYOUT STAKING**  
THE CONSTRUCTION LAYOUT STAKES FOR THIS PROJECT WILL BE PROVIDED BY THE ENGINEER WITH THE LIMITATIONS DESCRIBED IN THE SPECIAL PROVISIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE STAKING SCHEDULE TO PROTECT THE STAKES ONCE THEY HAVE BEEN SET. WORK IN EXCESS OF THE SERVICES DESCRIBED SHALL BE PAID FOR BY THE CONTRACTOR TO THE ENGINEER.

**DUST CONTROL**  
DUST SHALL BE KEPT TO A MINIMUM. COST OF EQUIPMENT AND MATERIAL REQUIRED TO PERFORM THIS ITEM SHALL BE INCIDENTAL TO THE OVERALL BID PRICE.

**SAFETY:**  
MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR ALL PRODUCTS AND/OR BUILDING MATERIALS THAT MAY CONTAIN HAZARDOUS OR TOXIC CHEMICALS SHALL BE MADE READILY AVAILABLE TO CONTRACTOR, EMPLOYEES, AND OWNERS PERSONNEL DURING CONSTRUCTION. MSDS'S TO BE FORWARDED TO THE ENGINEER AT START OF AND DURING CONSTRUCTION AND TO THE OWNER UPON COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE COUNTY.

**TRENCH EXCAVATION:**  
EXCAVATION SHALL BE LIMITED TO THE RIGHTS OF WAY AND EASEMENTS OF LANDS CONTROLLED BY THE OWNER.

THE LENGTH OF TRENCH TO BE OPENED OR THE AREA OF THE SURFACE TO BE DISTURBED AT ANY ONE TIME WILL BE LIMITED WITH REGARD TO BOTH EXPEDITIOUS CONSTRUCTION AND TO THE CONVENIENCE AND COMFORT OF THE PUBLIC RESIDING IN THE NEIGHBORHOOD OR FREQUENTING STREETS ADJACENT TO OR ALONG THE EXCAVATION, UNLESS OTHERWISE SPECIFICALLY PERMITTED BY THE ENGINEER. THE FOLLOWING LIMITATIONS TO LENGTH OF OPERATIONS WILL BE IMPOSED.

1. PLACEMENT OF PROPOSED CONDUIT AND BACKFILL MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF TRENCH, WHICH IS OPEN AT ANY ONE TIME, SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

2. IN PUBLIC AREAS, ALL UNCOMPLETED MAIN LINE, SERVICE LINE AND MANHOLE EXCAVATION, BACKFILL AND TEMPORARY SURFACING SHALL NOT EXCEED 100 FEET OR AS DIRECTED BY THE ENGINEER.

IF FOR ANY REASON THE WORK IS STOPPED ON THE WHOLE OR ANY PART OF THE TRENCH AND THE SAME IS LEFT OPEN FOR AN UNREASONABLE LENGTH OF TIME IN ADVANCE OF THE CONSTRUCTION OF THE CONDUIT, THE CONTRACTOR SHALL, WHEN SO DIRECTED, REFILL SUCH TRENCH OR PART THEREOF AND TEMPORARILY RESTORE THE SAME AT HIS OWN EXPENSE AND HE SHALL NOT AGAIN OPEN SUCH TRENCH OR PART THEREOF UNTIL HE IS READY TO PROCEED WITH THE CONSTRUCTION OF THE WORK.

ALL EXCAVATIONS WITHIN PUBLIC AREA LIMITS SHALL BE COMPLETELY CLOSED AT ALL TIMES WHEN THERE IS A DELAY IN THE PROGRESS OF THE WORK.

**EXCESS EXCAVATION MATERIAL:**  
THE REMOVAL AND DISPOSAL OF ALL EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH THE OWNER A COPY OF WRITTEN PERMISSION FROM THE PROPERTY OWNER PRIOR TO DISPOSING OF ANY WASTE MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE RESTORATION OF ALL WASTE AREAS USED IN THE COURSE OF THIS PROJECT. THE RESTORATION WORK SHALL INCLUDE CLEANUP, SHAPING AND GRADING AND ESTABLISHMENT OF VEGETATIVE COVER BY SEEDING AND MULCHING IN ACCORDANCE WITH ODOT ITEM 659. THE FINAL GRADING OF WASTE AREAS SHALL BE PROPERLY SLOPED TO PROVIDE DRAINAGE RUNOFF. ALL ROCKS, BOULDERS, CONCRETE CHUNKS, BROKEN PIPES, ETC. SHALL BE BURIED WITHIN THE WASTE AREA TO A DEPTH OF AT LEAST TWO (2) FEET AND SHALL NOT BE VISIBLE UPON COMPLETION.

**CONTINGENCY QUANTITIES**  
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

**MONUMENTS – BENCHMARKS**  
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE ALL EXISTING SURVEY MONUMENTATION AND BENCHMARKS. ANY MONUMENTATION (IRON PINS, CONCRETE MONUMENTS, ETC.), WHICH MAY BE DISTURBED DURING CONSTRUCTION, SHALL BE REFERENCED AND REPLACED UPON PROJECT COMPLETION. ALL MONUMENTATION REPLACED SHALL BE OF THE SAME MATERIAL AS ORIGINAL MONUMENT AND SHALL BE REPLACED WITHIN CUSTOMARY LIMITS OF ACCURACY, UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR. FOR U.S.G.S. MONUMENTS AND/OR BENCHMARKS WHICH MAY BE DISTURBED DURING CONSTRUCTION, THE APPROPRIATE AGENCY SHALL BE GIVEN ADEQUATE PRIOR NOTIFICATION TO ALLOW PROPER REFERENCES AND RELOCATION OF THE MONUMENTS TO BE DONE BY THE AGENCY INVOLVED.

**SOIL CONDITIONS / WATER TABLE**  
THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING / TESTING / DETERMINING SITE CONDITIONS AS IT RELATES TO SOIL CONDITIONS AND GROUND WATER TABLE. THE CONTRACTOR MAY EXAMINE ANY EXISTING RECORDS OF BORINGS, TEST EXCAVATIONS, AND OTHER SUBSURFACE INVESTIGATIONS, FOR HIS OWN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZING ALL TRENCH WORK, USING TEMPORARY SHORING (TRENCH BOXES OR OTHER) IF NECESSARY TO CONSTRUCT THE IMPROVEMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PUMPING / DEWATERING TRENCHES, IF NECESSARY.

PAYMENT FOR THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT ITEMS.

SEED, MULCH & FERTILIZER, AS PER PLAN  
ALL SEEDING, MULCHING AND FERTILIZING SHALL BE DONE TO DAMAGED AREAS WITHIN THE CONSTRUCTION LIMITS, INCIDENTAL TO THE PROJECT. ALL DAMAGED AREAS REQUIRING RESTORATION OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.

THE ENGINEER SHALL DETERMINE ALL AREAS REQUIRING SEEDING, MULCHING AND FERTILIZER PERTINENT TO THIS CONTRACT.

**MAINTENANCE OF TRAFFIC**  
THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT SPEC. 614 AND M.U.T.C.D. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN TO THE OWNER FOR APPROVAL INDICATING DATES AND DURATION OF EACH PHASE OF CONSTRUCTION.

LOCAL TRAFFIC SHALL HAVE ACCESS TO THEIR RESPECTIVE PROPERTIES AT ALL TIMES, EXCEPT DURING PERIODS OF SEWER CONSTRUCTION OR PAVEMENT REPAIR WHICH TEMPORARILY OBSTRUCTS ACCESS. THE CONTRACTOR SHALL GIVE SUFFICIENT PRIOR NOTICE TO PROPERTY OWNERS BEFORE CLOSING ANY PRIVATE DRIVE. NO PRIVATE DRIVE MAY BE CLOSED FOR MORE THAN SEVEN (7) HOURS AND SHALL BE OPEN TO TRAFFIC AT THE END OF THIS WORKING DAY.

THE CONTRACTOR SHALL MAINTAIN ALTERNATING TWO WAY TRAFFIC ON ALL STREETS DURING CONSTRUCTION. ANY ROAD CLOSURES MUST BE APPROVED BY THE COUNTY, VILLAGE AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

SPECIFIC ATTENTION WILL BE DIRECTED TOWARD THE PROPER USE OF FLAGMEN, LIGHTS, DRUMS, AND TEMPORARY PAVEMENT MARKINGS (IF NECESSARY). THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY SIGNS, AND PROVIDE TEMPORARY STRIPING (IF NECESSARY). THE CONTRACTOR SHALL ALSO PROVIDE ALL PLATING, TEMPORARY PAVEMENT AND TRAFFIC CONTROL MEASURES NECESSARY TO MAINTAIN TRAFFIC.

ALL COSTS FOR TRAFFIC MAINTENANCE SHALL BE INCIDENTAL TO THE CONTRACT.

MAINTENANCE OF TRAFFIC SHALL BE ONGOING THROUGH THE PROJECT, INCLUDING ALL PERIODS OF INACTIVITY BY THE CONTRACTOR, UNTIL FINAL ACCEPTANCE OF THE PROJECT.

**OPEN EXCAVATIONS**  
ALL OPEN EXCAVATION SHALL BE PROPERLY DELINEATED FROM THE TRAVELED ROADWAY BY REFLECTIVE DRUMS. TRENCHES SHALL EITHER BE BACKFILLED OR COVERED FOR ANY EXTENDED PERIODS OF NO CONSTRUCTION.

**MAINTENANCE OF EXISTING ROADWAY/DRIVEWAYS**  
THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE EXISTING ROADWAYS AND DRIVEWAYS IN GOOD CONDITION WITH RESPECT TO BOTH SAFETY AND SMOOTHNESS OF TRAVEL AS LONG AS IT IS NEEDED FOR MAINTENANCE OF TRAFFIC. THE COST OF ADDITIONAL WORK AND MATERIAL NECESSARY TO REPAIR AND MAINTAIN THE EXISTING ROADWAYS SHALL BE INCIDENTAL TO THE CONTRACT.

**CONSTRUCTION SCHEDULE**  
IN DETAILING THE CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL PROVIDE THE LEAST POSSIBLE INCONVENIENCE TO THE PUBLIC DURING CONSTRUCTION. WORK SHALL NOT PROCEED ON THE PROJECT UNTIL SUCH TIME AS THE SCHEDULE IS APPROVED BY THE COUNTY, VILLAGE AND THE ENGINEER.

**CLEANING STREETS AND ROADWAYS:**  
BEFORE THE WORK HEREIN SPECIFIED IS ACCEPTED, THE CONTRACTOR SHALL, UPON NOTICE FROM THE ENGINEER, THOROUGHLY CLEAN ALL STREETS, ROADS, SIDEWALKS, DRIVEWAYS AND LAWNS FREE FROM ALL DEBRIS AND DIRT ACCUMULATING FROM CONSTRUCTION WORK, AND ON ALL IMPROVED STREETS AND ROADS, AND SHALL COMPLETELY SHAPE UP THE ENTIRE ROADWAY WITHIN THE LIMITS OF THE HEREIN SPECIFIED WORK.

THE CONTRACTOR WILL BE REQUIRED TO REMOVE DIRT ACCUMULATING FROM HIS OPERATIONS UPON THE SAID STREETS OR UPON INTERSECTING STREETS, LAWNS OR SIDEWALKS, AS OFTEN AS MAY BE ORDERED BY THE OWNER. WHEN THE WORK IS FINALLY COMPLETED AND BEFORE ITS FINAL ACCEPTANCE, THE CONTRACTOR UPON WRITTEN ORDER FROM THE OWNER SHALL THOROUGHLY CLEAN THE WHOLE OF SAID STREET OR STREETS TO THE SATISFACTION OF THE OWNER. NO EXTRA PAYMENT WILL BE MADE FOR THE WORK INVOLVED IN THE CLEANING OF THE PAVED OR UNPAVED STREETS, BUT THE COST OF THE SAME SHALL BE INCLUDED IN THE PRICES FOR THE VARIOUS ITEMS OF WORK TO BE DONE UNDER THIS CONTRACT.

SHOULD THE COMPLETION OF THE WORK OCCUR AT SUCH A TIME THAT THE FINAL SHAPING AND CLEANING OF THE STREETS WOULD COME IN THE WINTER MONTHS, THE CLEANING AND SHAPING, BY THE PERMISSION OF THE OWNER, WOULD BE POSTPONED UNTIL THE FOLLOWING SPRING AND THE AMOUNT SUFFICIENT TO DO THE WORK WILL BE RETAINED FROM THE MONEY DUE THE CONTRACTOR.

SHOULD THE CONTRACTOR FAIL TO SHAPE OR CLEAN THE STREETS WITHIN THE LIMITS OF THE HEREIN SPECIFIED WORK WITHIN SEVEN (7) DAYS AFTER RECEIPT OF WRITTEN NOTICE FROM THE ENGINEER TO DO SO, THE OWNER WILL HAVE THE RIGHT TO HAVE SAID WORK DONE AND THE COST THEREOF DEDUCTED FROM THE MONIES DUE TO THE CONTRACTOR.

**NOISE CONTROL**  
CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS UNLESS APPROVED 48 HOURS IN ADVANCE BY THE COUNTY AND VILLAGE.

**GROUNDWATER**  
THE CONTRACTOR SHOULD ASSUME THAT SOME GROUNDWATER WILL BE PRESENT IN ALL EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE REMOVING AND DISPOSING OF GROUNDWATER THAT IS FREE OF SILT AND OTHER CONTAMINANTS OR SOLIDS.

**CURB REPAIR**  
ANY CURB DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN FULL SECTIONS, FROM JOINT TO JOINT.

**PIPING INFORMATION**

- PVC GRAVITY SEWER PIPE <15 – FEET DEEP MUST MEET OR EXCEED SDR 35.
- PVC GRAVITY SEWER PIPE GREATER THAN OR EQUAL TO 15 FEET DEEP MUST MEET OR EXCEED SDR 26.
- FORCE MAIN SHALL BE HDPE AND INSTALLED BY DIRECTIONAL DRILL.

**GENERAL NOTES**

- COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED BY THE VILLAGE AND THE PROPERTY OWNER.
- WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

3. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION.

4. ALL MATERIAL FOR THE PROP. SEWER INSTALLATION INCLUDING ALL FITTINGS, PIPE RESTRAINTS, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE.

5. COST OF ALL TRENCHING, PIPE RESTRAINT MATERIALS, AIR COCKS, PIPE BEDDING, BACKFILL, REMOVAL & REPLACEMENT OF LANDSCAPING/SIGNS SHALL BE PART OF THE COST OF INSTALLING SEWER.

YARD RESTORATION AND PAVEMENT, DRIVEWAY, CURB AND WALK RESTORATION SHALL BE PAID FOR UNDER SEPARATE BID ITEMS.

**OTHER THAN THE YARD RESTORATION, ALL OTHER RESTORATION LISTED ABOVE SHALL BE LIMITED TO A 10 FOOT WIDTH ALONG THE SEWER TRENCH.**

6. PRESSURE TESTING SHALL BE DONE AS PER THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, TAPS AND LABOR NECESSARY FOR CONDUCTING TESTING.

7. THE PROPOSED SEWER SHALL HAVE A HORIZONTAL SEPARATION OF AT LEAST 3'-0" (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM ANY GAS MAIN.

8. A 10' MINIMUM LATERAL SEPARATION BETWEEN WATER MAINS AND SEWERS (DEFINED AS AN SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) AND SEWER MANHOLES, MEASURED FROM THE OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED, UNLESS OTHERWISE INDICATED ON THE PLANS.

9. THE LOCATION OF UTILITIES SHOWN IN PROFILE IS APPROXIMATE AND BASED ON AN ASSUMED UNIFORM COVER. THE UTILITY LOCATION IN THE FIELD MAY VARY AS TO LOCATION AND DEPTH. THE CONTRACTOR SHALL BECOME FULLY RESPONSIBLE TO COORDINATE WITH ALL UTILITY OWNERS AND THEIR CONTRACTORS TO VERIFY THE LOCATION AND DEPTH OF THEIR UTILITY SERVICES. COST OF DOING SO SHALL BE INCIDENTAL TO OVERALL CONTRACT.

10. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. CONTRACTOR SHALL REMOVE OR PLUG ALL PIPE CONNECTIONS TO ANY NON-SANITARY CONDUITS LEFT IN PLACE WHICH ARE OPENED WHEN INSTALLING LATERALS OR NEW MAIN LINE AND LATERALS. CONTRACTOR SHALL ENSURE ALL SYSTEMS CONTINUE TO FUNCTION UNTIL PROPER TIE-INS CAN BE MADE.

THE CONTRACTOR SHALL PLUG ALL UPSTREAM ENDS OF EXISTING SANITARY CONNECTIONS LEFT IN PLACE WHICH ARE OPENED WHEN INSTALLING SEWERS OR REMOVING EXISTING MANHOLES.

11. THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO TO MAINTAIN AT ALL TIMES SANITARY SEWER FLOWS THROUGH EXISTING SEWERS TO REMAIN IN PLACE AND THROUGH EXISTING SEWERS TO BE REPLACED UNTIL NEW SEWERS ARE COMPLETED AND PLACED IN USE. PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE OWNER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RELATED ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.

12. ALL WATERLINE, SANITARY SEWER, AND STORM SEWER PIPE SHALL BE INSTALLED UTILIZING APPROPRIATE BEDDING AND BACKFILL MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE DETAILS PRESENTED WITHIN THE DRAWINGS. TRENCHES UNDER DRIVES, PAVEMENT AND WALKS OR WITHIN THE RIGHT-OF-WAY SHALL UTILIZE ODOT ITEM 304 AGGREGATE BASE AS BACKFILL TO SUBGRADE.

13. EXCAVATIONS WITHIN FIVE FEET OF STREETS, DRIVES, WALKS, PARKING AREAS AND OTHER ROADWAYS SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL CONFORMING TO ODOT ITEM 304 AGGREGATE BASE. ADDITIONAL GRANULAR MATERIAL SHALL BE STOCK-PILED AT SELECT LOCATIONS FOR USE WHEN SETTLEMENT OCCURS. ALL GRANULAR MATERIAL SHALL BE COMPACTED IN SIX (6) INCH LAYERS.

14. WHERE EXISTING PIPES ARE CALLED FOR ON THE DRAWINGS TO BE PLUGGED OR ABANDONED, THE CONTRACTOR SHALL INSTALL A CONCRETE OR VITRIFIED PLUG OR SHALL FILL THE END OF THE PIPE WITH CONCRETE AS DIRECTED BY THE ENGINEER. THE COST OF PLUGGING EXISTING PIPES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS PIPE ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

15. THE CONTRACTOR SHALL CONNECT OR REPAIR ANY DRAIN PIPE AFFEATED BY THE EXECUTION OF THIS CONTRACT. THE LOCATION, TYPE, SIZE AND GRADE OF THE REPLACEMENTS OR CONNECTIONS SHALL BE DETERMINED BY THE OWNER DURING CONSTRUCTION AND PAYMENT SHALL BE MADE BASED ON THE FINAL MEASUREMENT OF THE ACTUAL LENGTH OF PIPE USED. THE CONTRACTOR SHALL RESTORE ALL DRAINAGE TILE CROSSING NEW CONSTRUCTION TRENCHES WHICH ARE TO REMAIN.

16. ROCK EXCAVATION AND REMOVAL – THE COST OF ALL ROCK REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS. BLASTING WILL NOT BE PERMITTED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

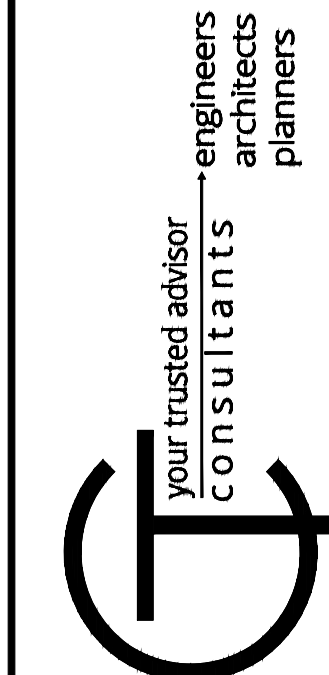
17. THE EXACT TOP OF CASTING ELEVATION SHALL BE DETERMINED IN THE FIELD BASED ON THE ELEVATIONS OF THE ADJACENT PAVEMENT AND THE SURROUNDING GROUND. TOP OF CASTING SHALL BE AT OR ABOVE GRADE.

18. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, OR CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE OWNER.

19. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL "RAINWATER AND LAND DEVELOPMENT". EROSION CONTROL MEASURES UTILIZED ON THIS PROJECT SHALL BE BASED UPON THE BEST MANAGEMENT PRACTICES OUTLINED IN THE "RAINWATER AND LAND DEVELOPMENT MANUAL", CURRENT EDITION, AS PREPARED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES.

20. ALL ELEVATIONS ARE BASED ON THE U.S.G.S. 1988 DATUM.

21. FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4'-6" OF COVER FROM FINISHED GRADE TO THE TOP OF THE FORCE MAIN, UNLESS OTHERWISE APPROVED BY THE ENGINEER, FORCE MAINS SHALL BE DEFLECTED WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING THE MANUFACTURER'S ALLOWABLE DEFLECTION. ALL FITTINGS SHALL BE DUCTILE IRON WITH MECHANICAL JOINTS UNLESS OTHERWISE NOTED. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DETAILS.



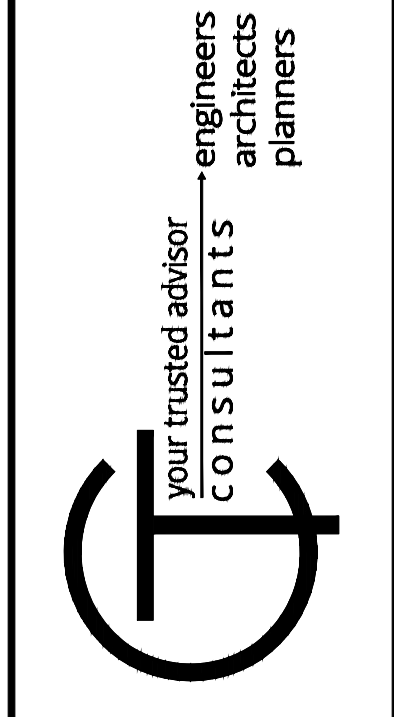
DATE	REVISION	NO	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
				OCTOBER 2023	AS SHOWN	JCOR	JCOR	KERRY

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
ADAMS COUNTY, OHIO  
**GENERAL NOTES**

PROJECT NO.	
220432	
DISCIPLINE	
CIVIL	
SHEET NAME	
GN-1	
SHEET	OF
2	43







ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

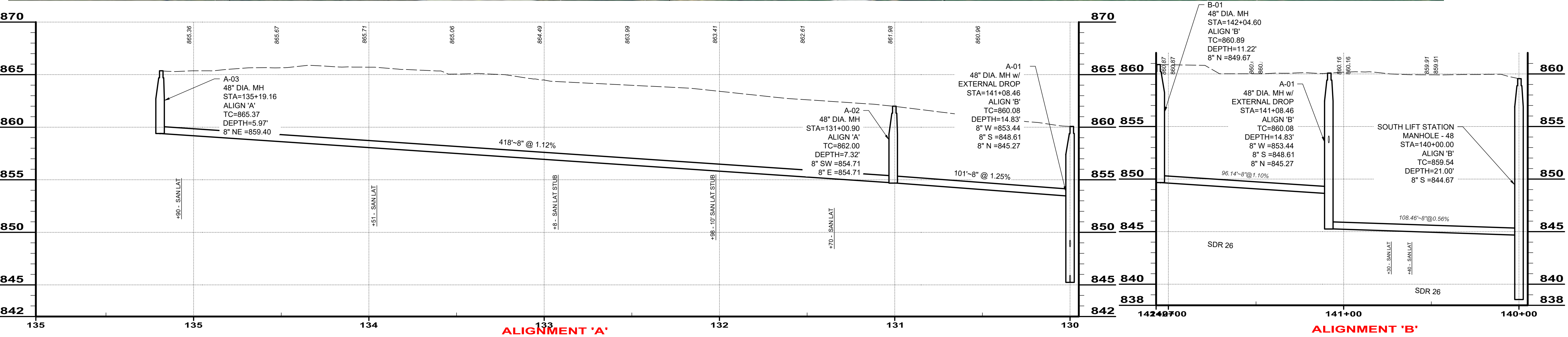
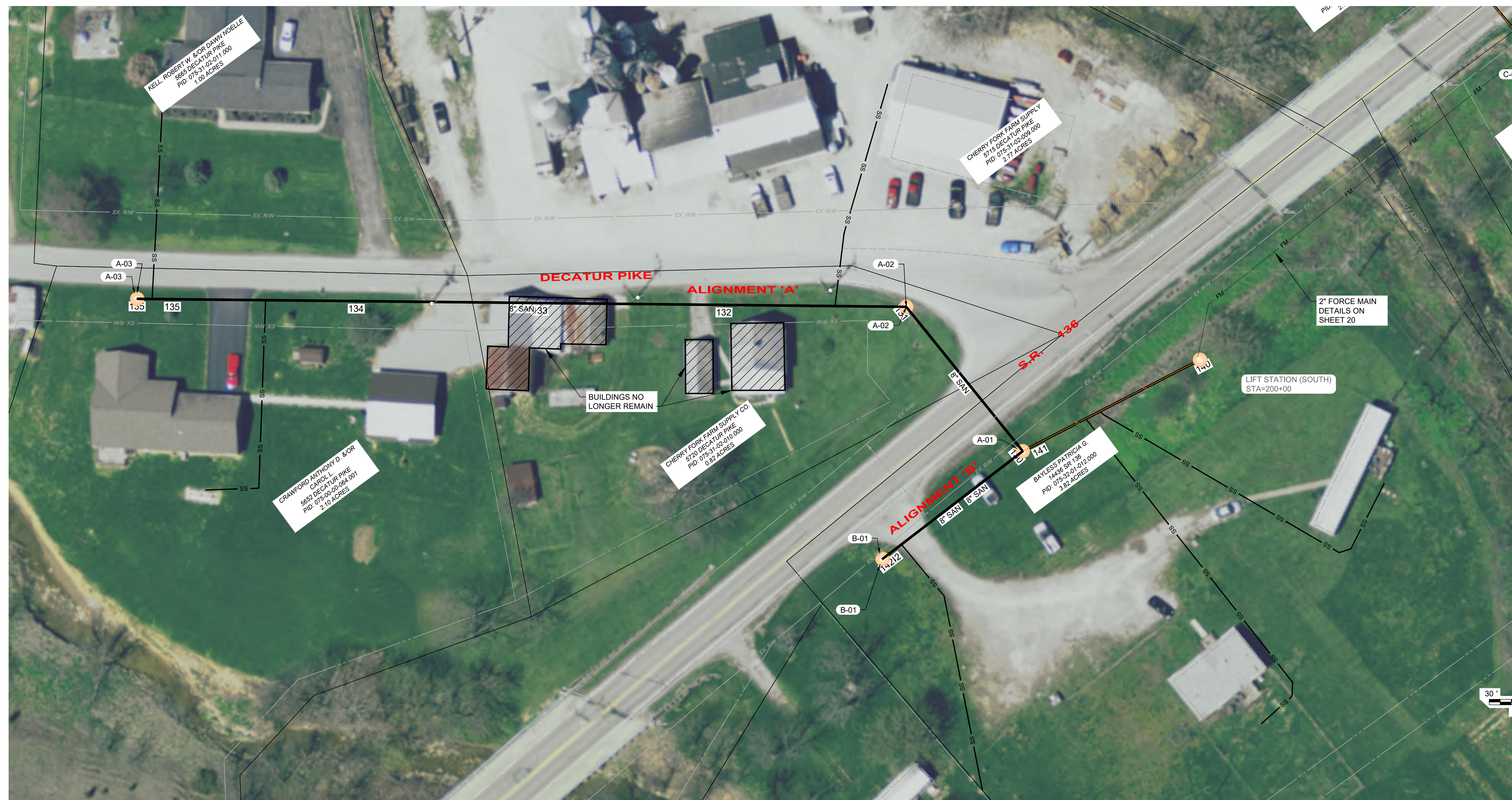
**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO

**GRAVITY SEWER OVERALL LAYOUT**

PROJECT NO.		220432
DISCIPLINE		CIVIL
SHEET NAME		LAYOUT
SHEET	OF	
4	43	

H:\2022\220432\DWG\ESTC\_220432\_PIP GRAVITY DWG - GRAV LAYOUT - 6/25/2024 1:12:36 PM - JOHNATHAN REYNOLDS





your trusted advisor  
engineers  
architects  
planners

ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KGRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO

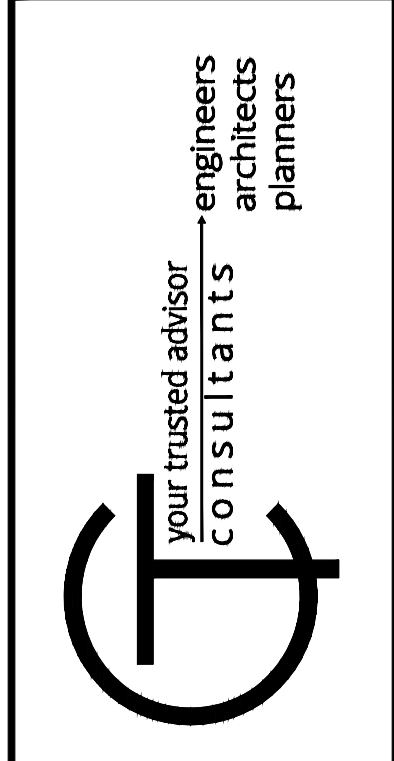
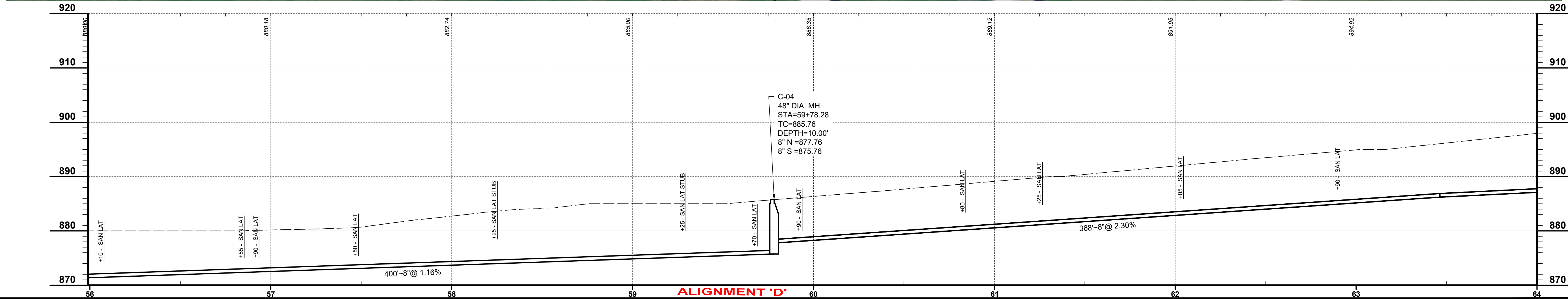
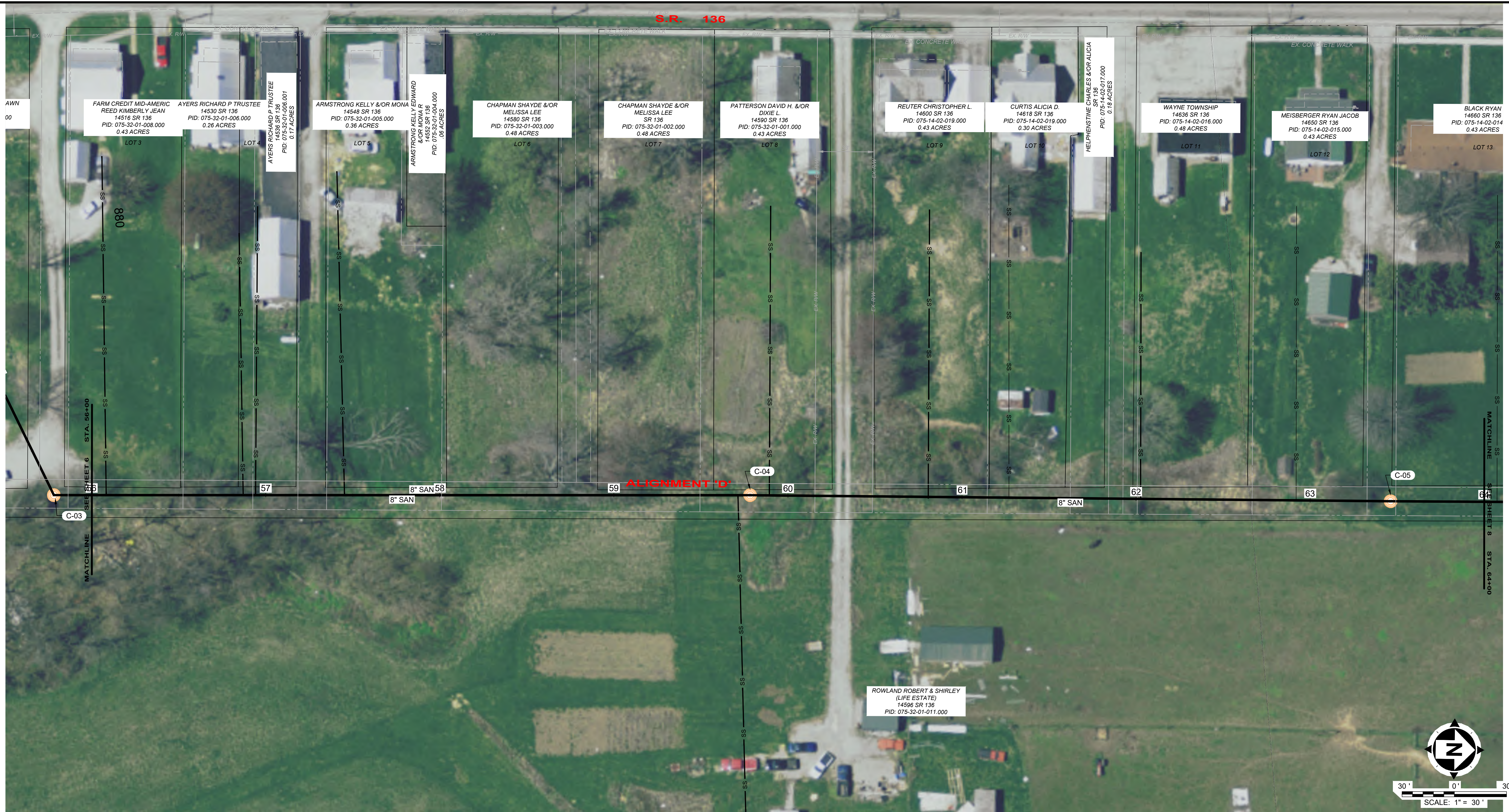
**PLAN AND PROFILE**  
**ALIGNMENT 'A' & ALIGNMENT 'B'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-01
SHEET	5
OF	43









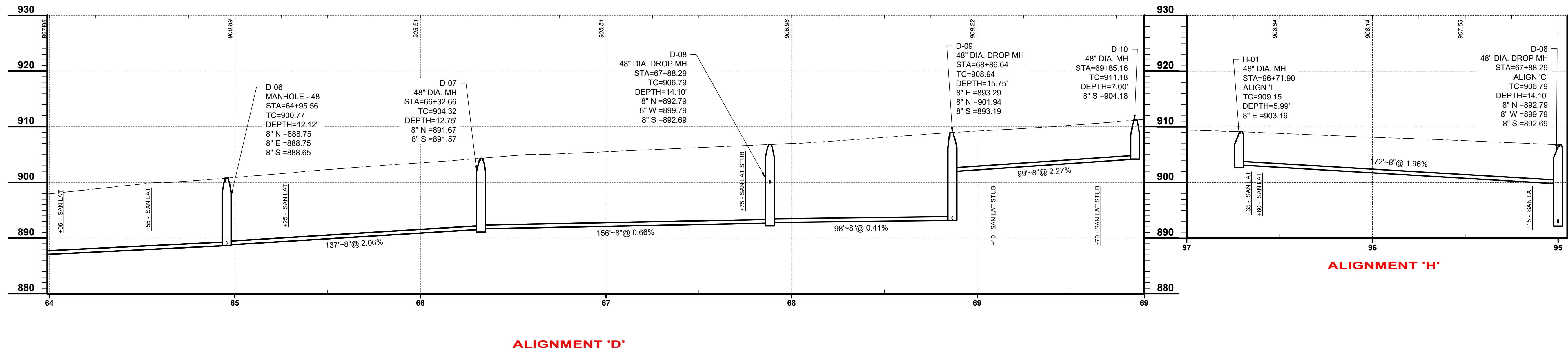
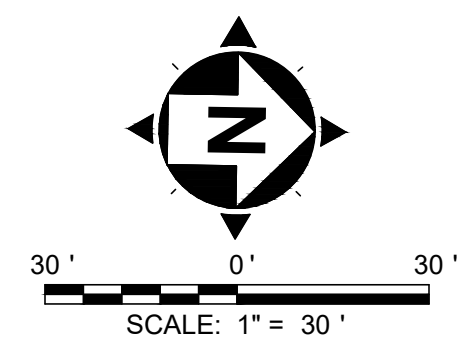
ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KGRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO

**PLAN AND PROFILE**  
 STA. 55+78 TO STA. 64+00 ALIGNMENT 'D'

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-03
SHEET	7
OF	43





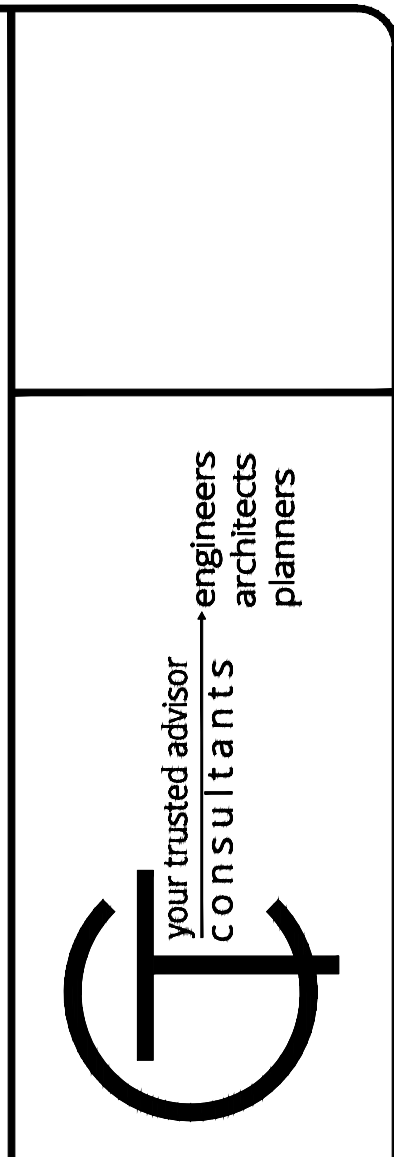
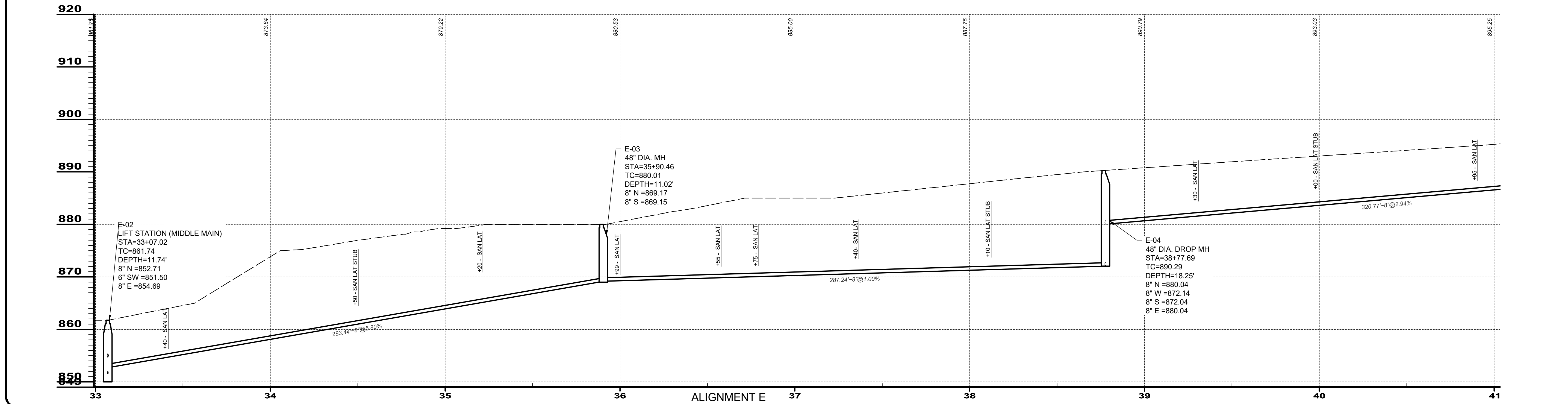
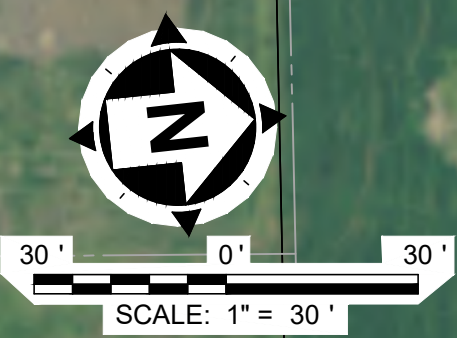
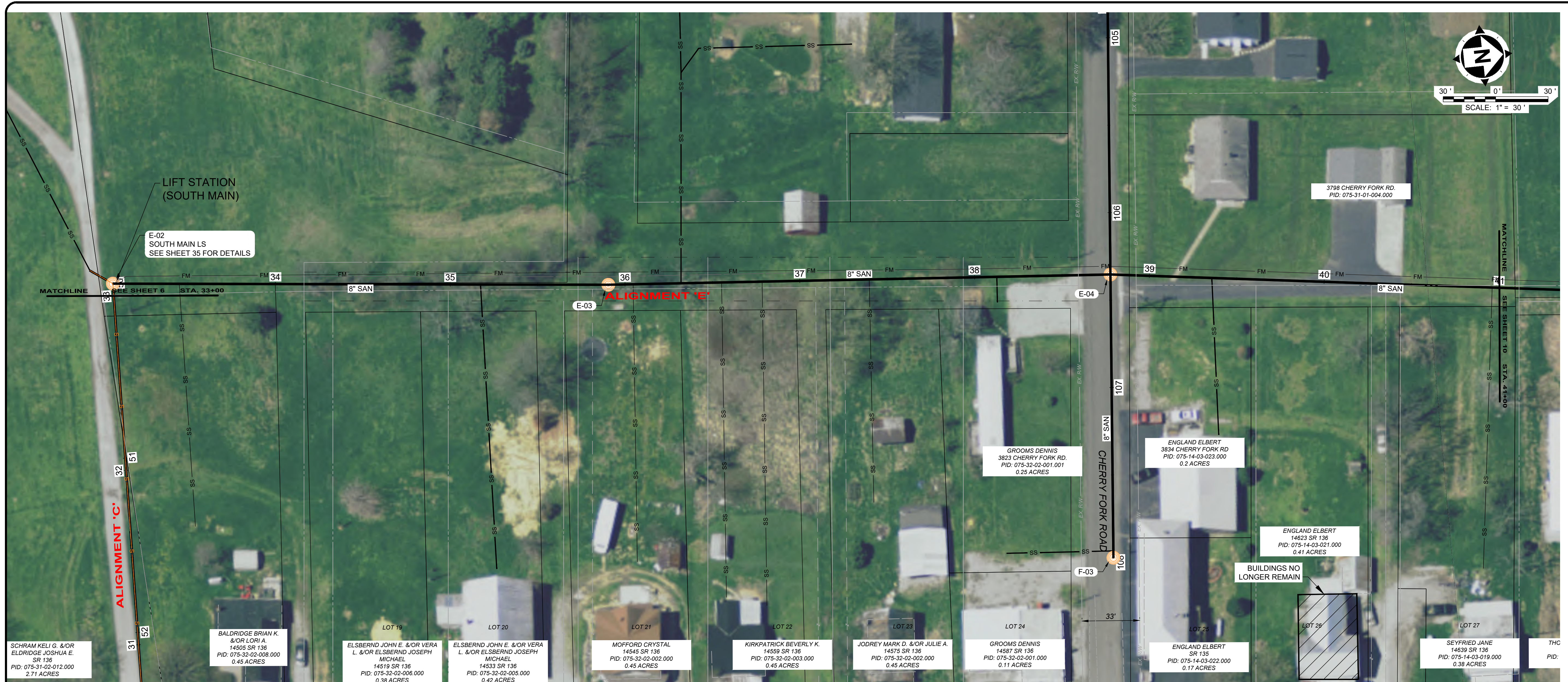
your trusted advisor  
**engineers  
 architects  
 planners**  
**consultants**

ISSUED FOR:	DATE
ISSUE DATE: OCTOBER 2023	
SCALE: AS SHOWN	
DESIGNED BY: JCOR	
DRAWN BY: JCOR	
CHECKED BY: KBRY	
NO	REVISION

**ADAMS COUNTY ECONOMIC  
 DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**STA. 64+00 TO STA. 69+85 ALIGNMENT 'D'**  
**AND ALIGNMENT 'H'**

PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>PNP-04</b>
SHEET	OF
<b>8</b>	<b>43</b>





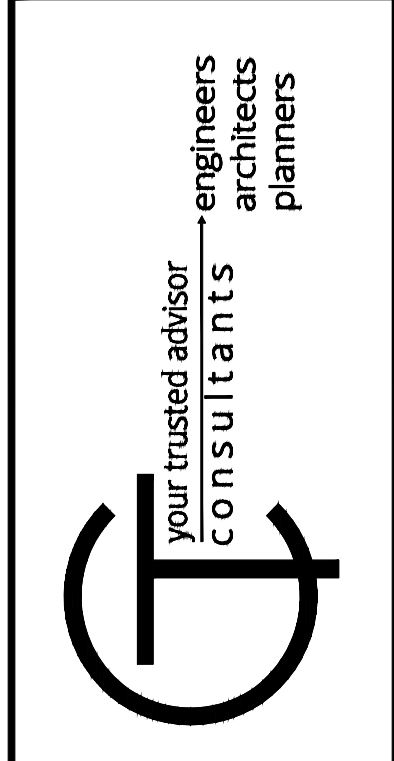
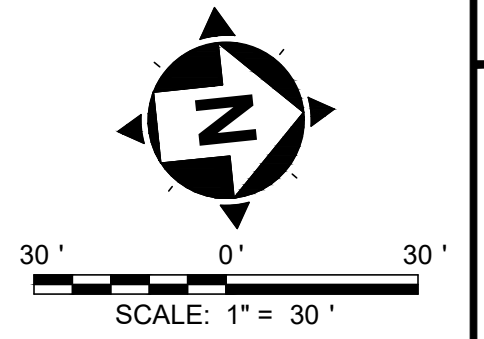
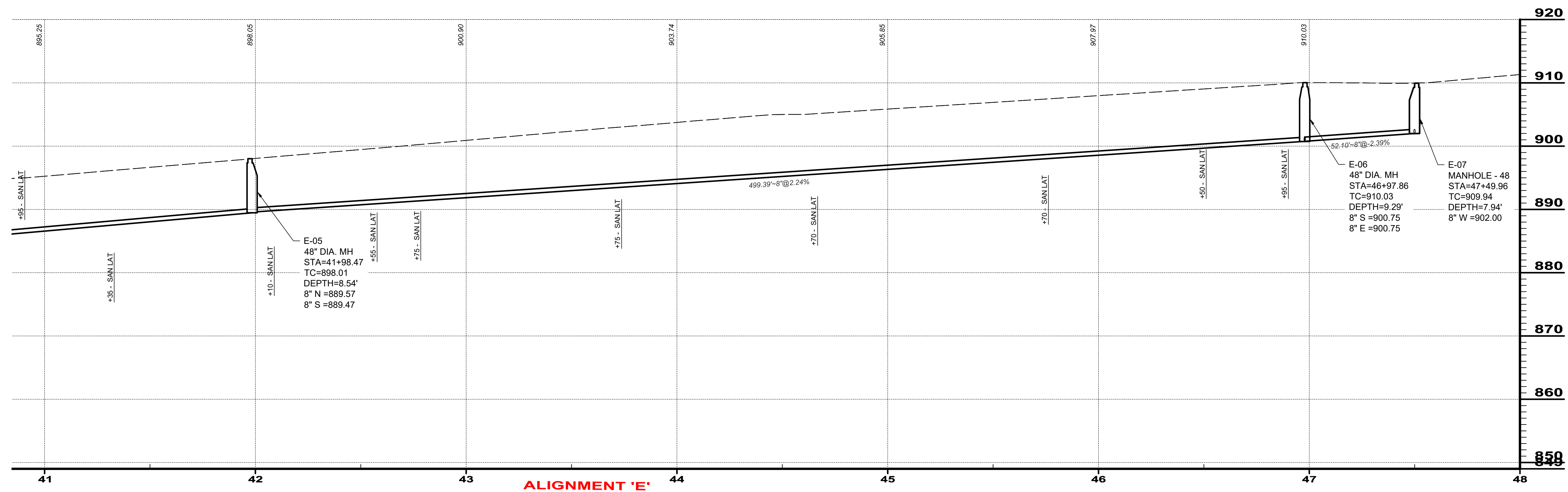
ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**STA. 33+07 TO STA. 41+00 ALIGNMENT 'E'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-05
SHEET	9
OF	43

H:\022\220432\DWG\ESTC\_220432\_PNP GRAVITY DWG - GRAV\_05 - 02/20/24 11:45:29 AM - JOHNATHAN REYNOLDS



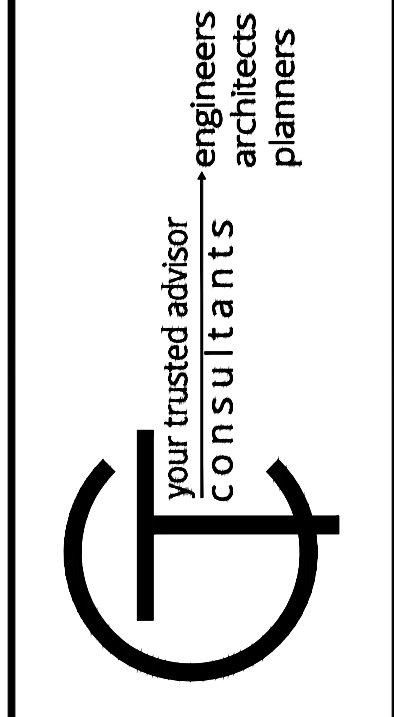
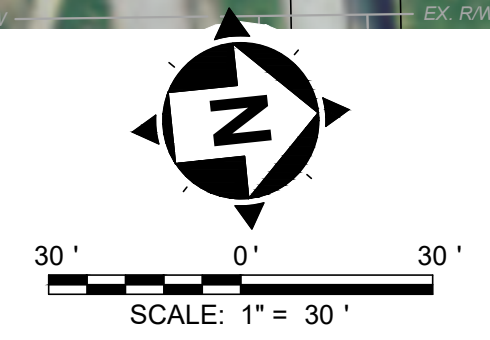
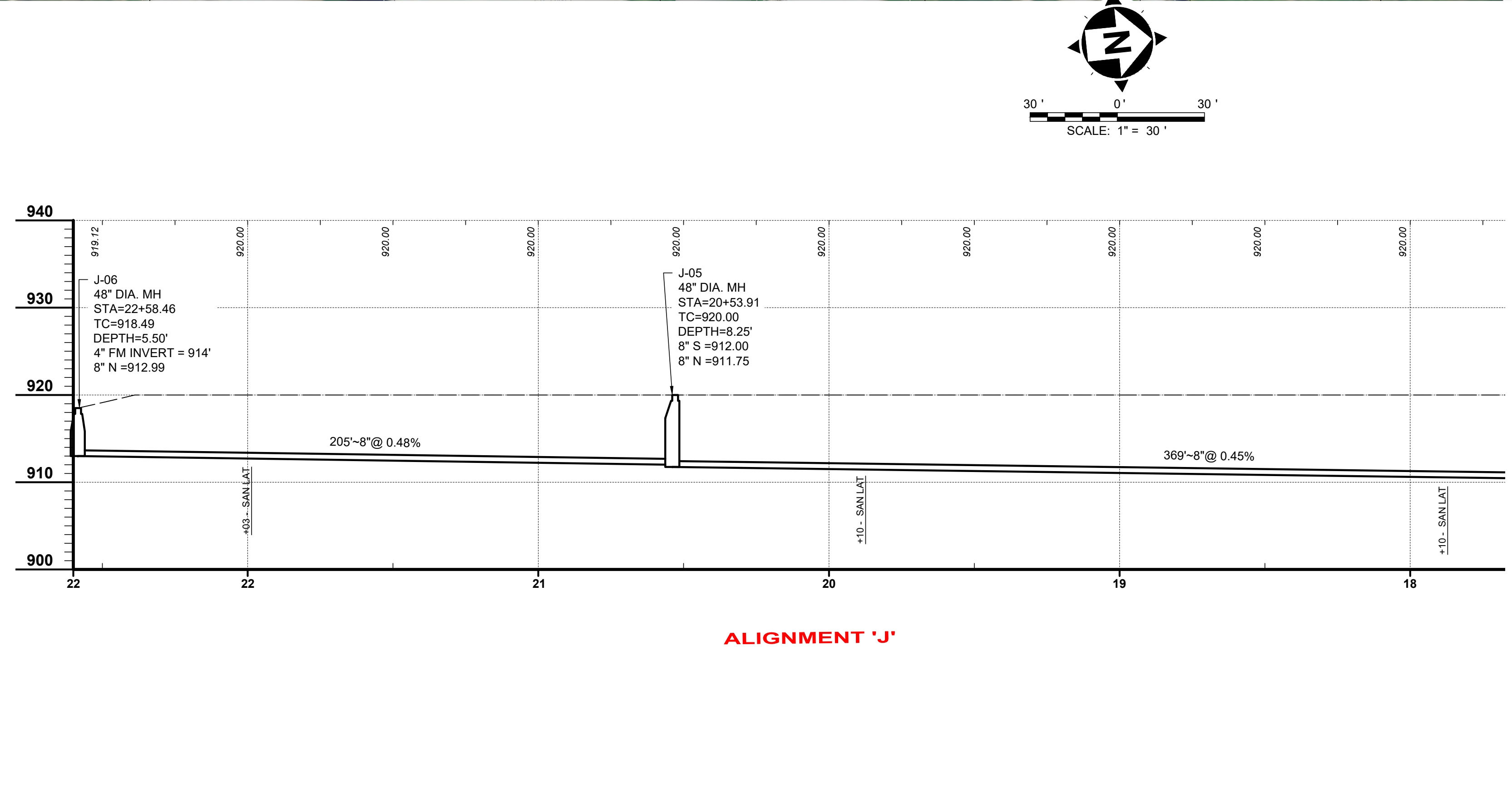
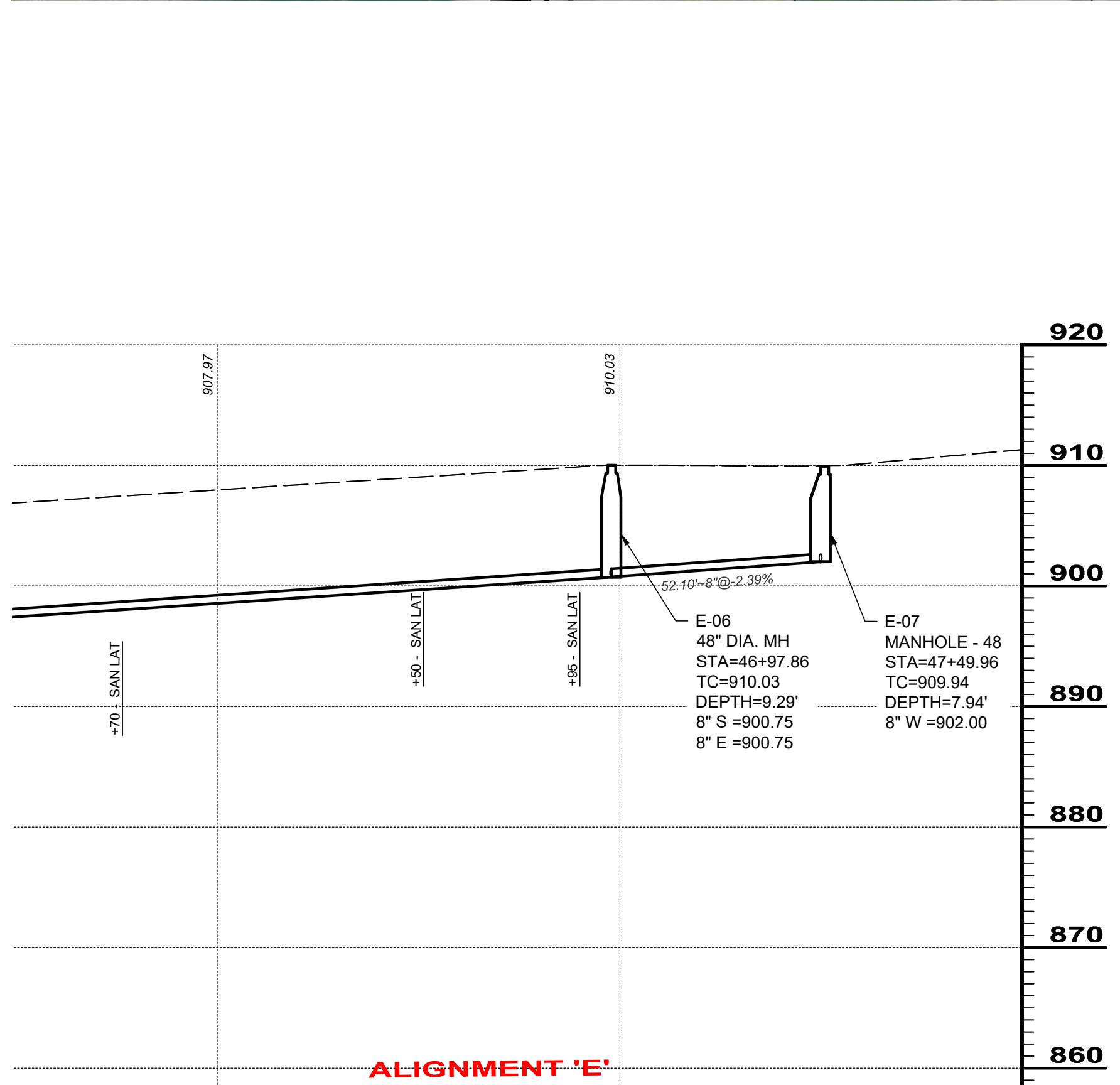


ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KGRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**STA. 41+00 TO STA. 47+49 ALIGNMENT 'E'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-06
SHEET	10
OF	43



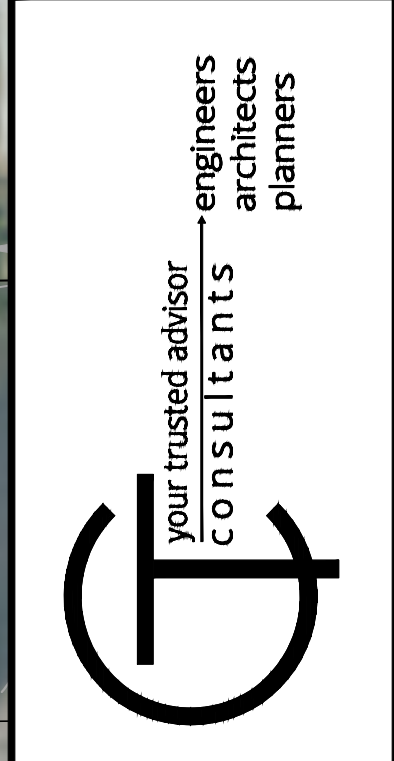


ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBY			

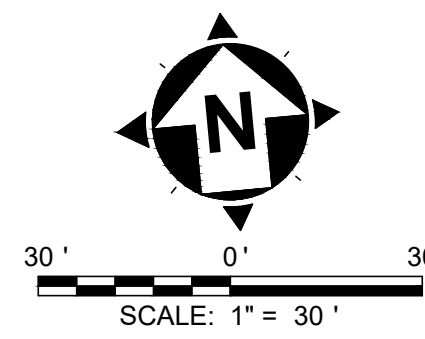
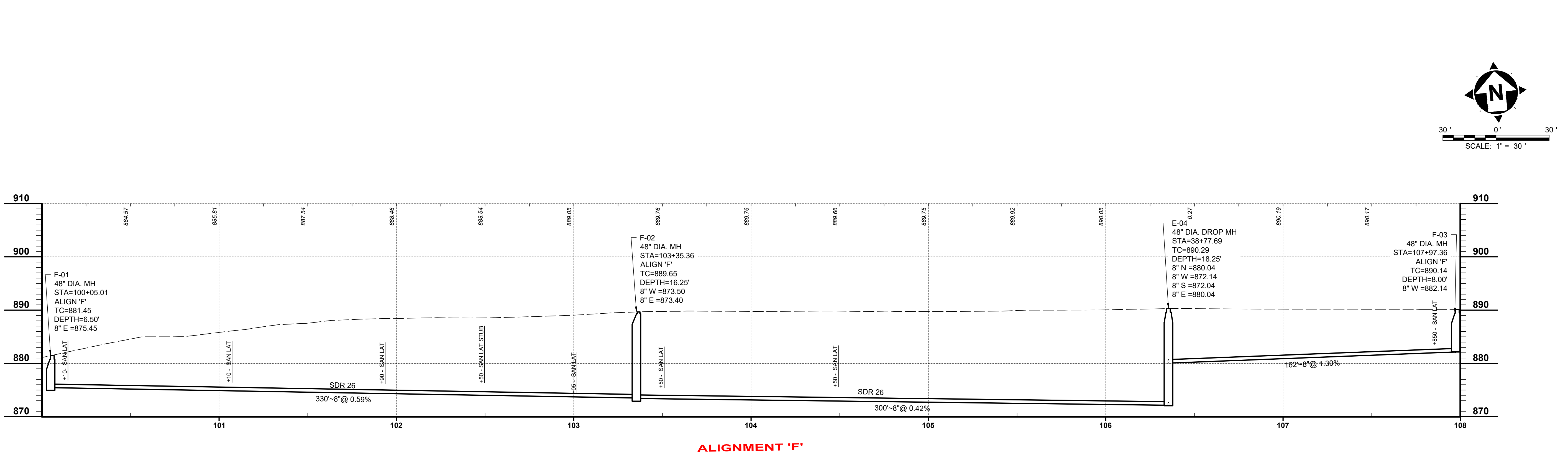
**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**ALIGNMENT 'E' & ALIGNMENT 'J'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-07
SHEET	11
OF	43





ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

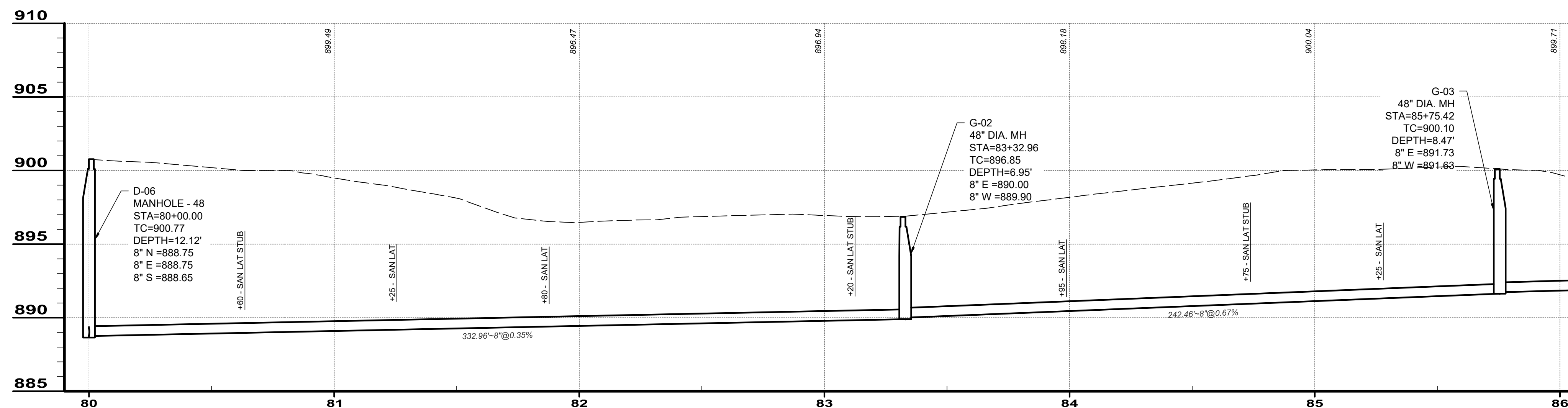


**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**ALIGNMENT 'F'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-08
SHEET	OF
12	43

H:\022\220432\DWG\ESTC\_220432\_PNP GRAVITY DWG - GRAV\_08 - 0250204 11:45:29 AM - JOHNATHAN REYNOLDS





your trusted advisor  
engineers  
architects  
planners  
**consultants**

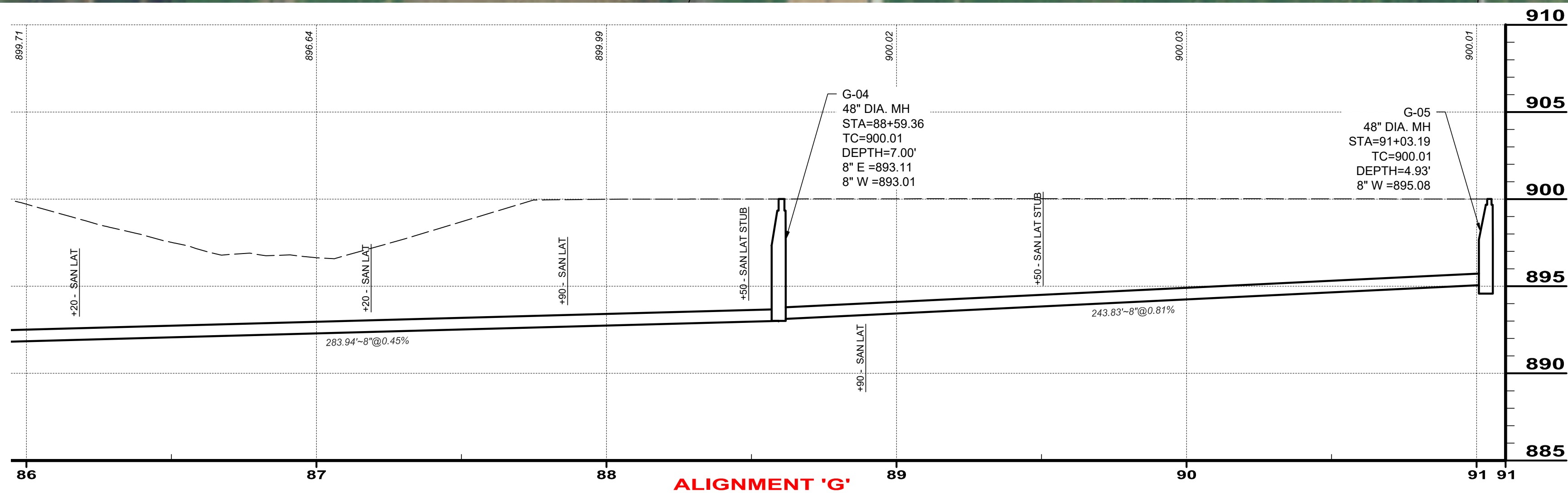
ISSUED FOR:	DATE
OCTOBER 2023	
AS SHOWN	
JCOR	
JCOR	
KERY	

**ADAMS COUNTY ECONOMIC  
DEVELOPMENT  
CHERRY FORK SANITARY SEWER  
ADAMS COUNTY, OHIO**

**PLAN AND PROFILE  
STA. 80+00 TO STA. 86+00 ALIGNMENT 'G'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-09
SHEET	OF
13	43





**ADAMS COUNTY ECONOMIC  
DEVELOPMENT  
CHERRY FORK SANITARY SEWER  
ADAMS COUNTY, OHIO**

**PLAN AND PROFILE  
STA. 86+00 TO STA. 90+99 ALIGNMENT 'G'**

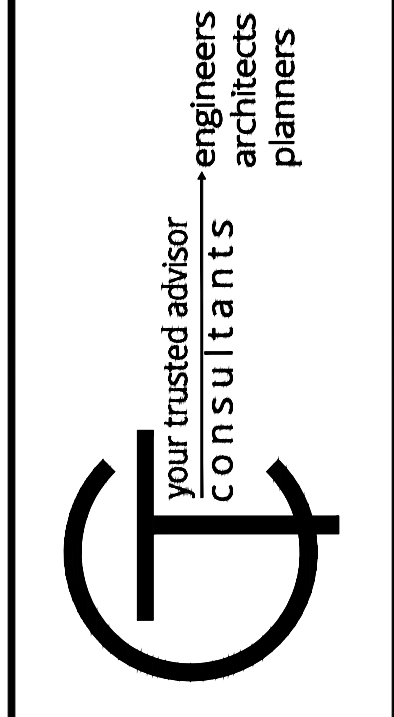
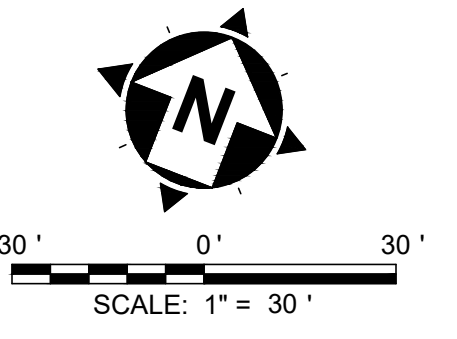
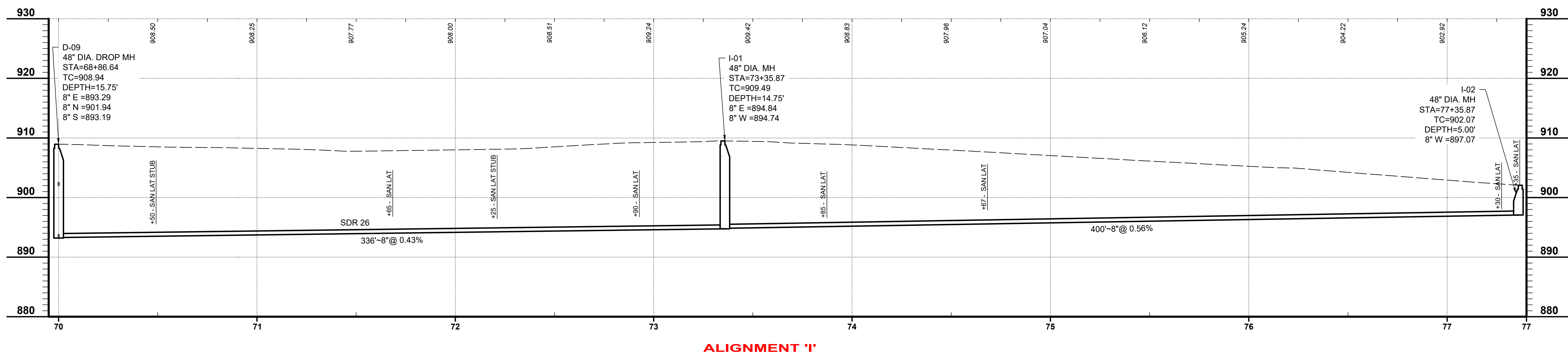
PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>PNP-10</b>	
SHEET <b>14</b>	OF <b>43</b>

ISSUED FOR:	NO	REVISION	DATE
OCTOBER 2023			
AS SHOWN			
JCOR			
JCOR			
KERY			

your trusted advisor  
**consultants**

engineers  
architects  
planners





NO	REVISION	DATE

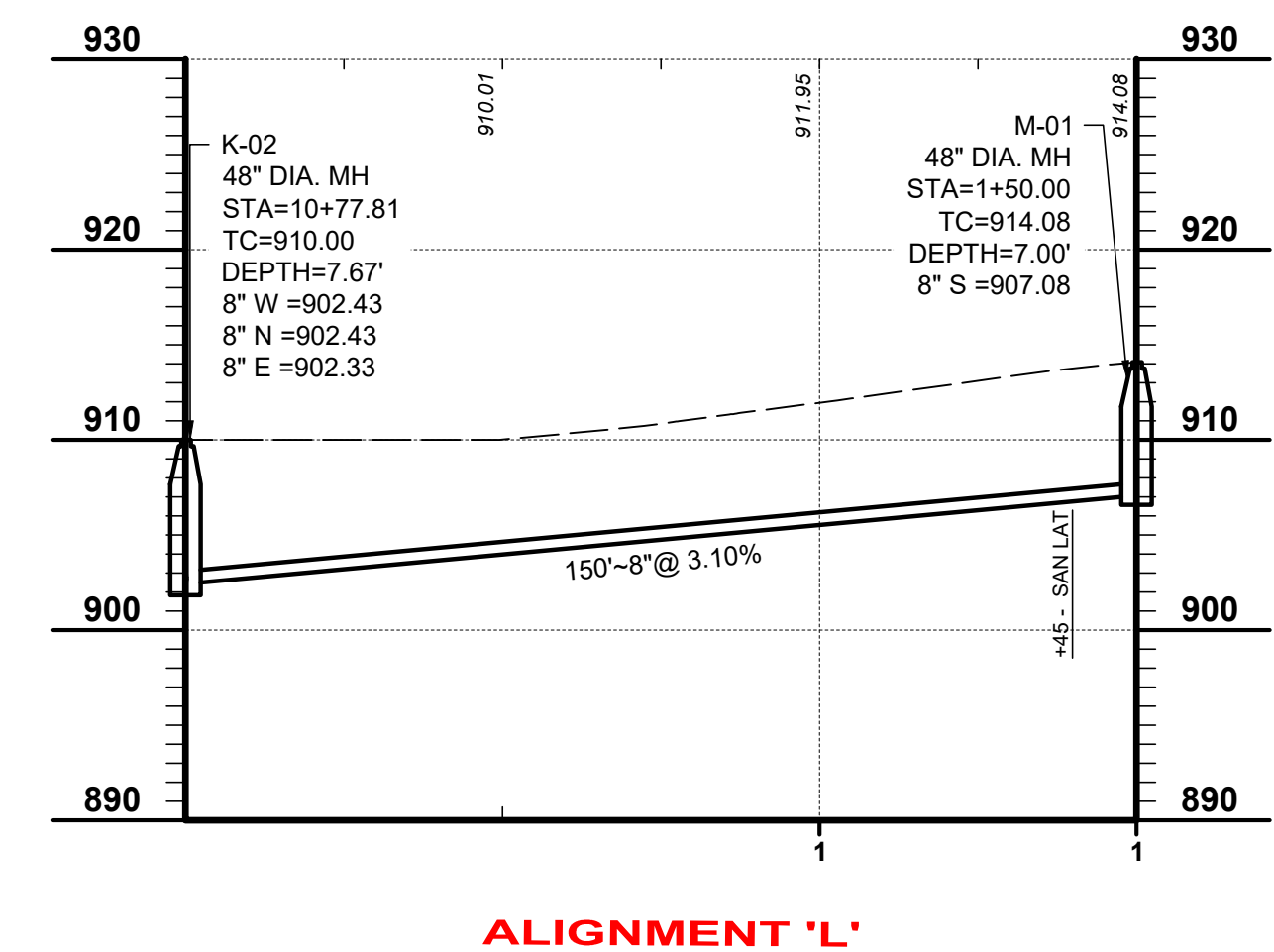
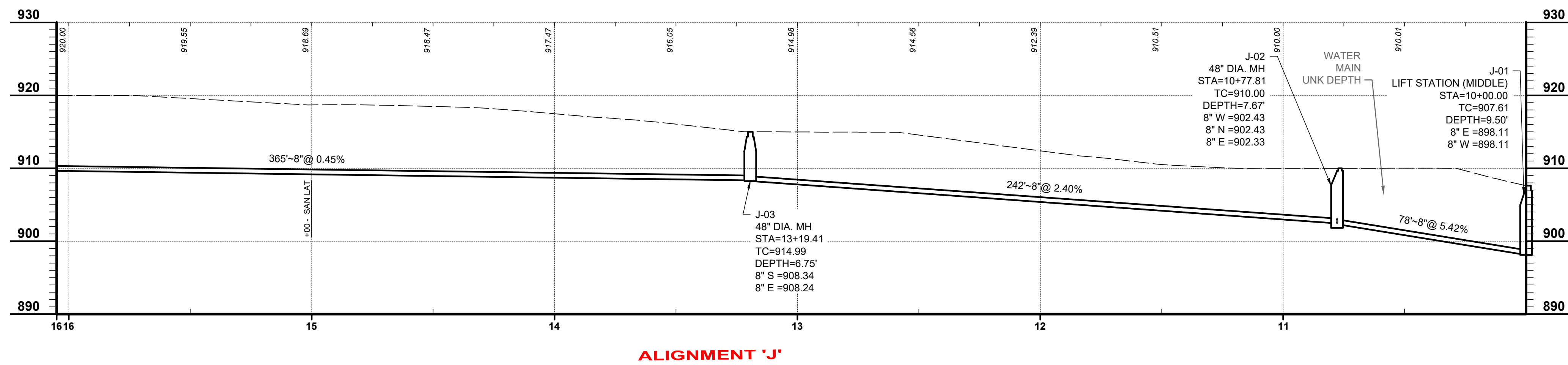
ISSUED FOR:	OCTOBER 2023
ISSUE DATE:	OCTOBER 2023
SCALE:	AS SHOWN
DESIGNED BY:	JCOR
DRAWN BY:	JCOR
CHECKED BY:	KBRY

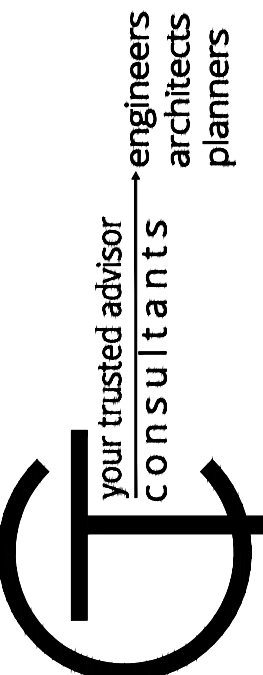
**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**ALIGNMENT 'I'**

PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>PNP-11</b>
SHEET	OF
<b>15</b>	<b>43</b>

H:\2022\2024\2024\09\ESTC\_220432\_PNP\_GRAVITY.DWG - GRAV\_11-0250204 11:45:29 AM - JONATHAN REYNOLDS







your trusted advisor  
consultants  
engineers  
architects  
planners

NO	REVISION	DATE

ISSUED FOR:	OCTOBER 2023
ISSUE DATE:	OCTOBER 2023
SCALE:	AS SHOWN
DESIGNED BY:	JCOR
DRAWN BY:	JCOR
CHECKED BY:	KBRY

**ADAMS COUNTY ECONOMIC DEVELOPMENT**

**CHERRY FORK SANITARY SEWER**

ADAMS COUNTY, OHIO

**PLAN AND PROFILE**

**STA. 10+00 TO STA. 16+00 ALIGNMENT 'J' & ALIGNMENT 'L'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-12
SHEET	16
OF	43





AREA TO BE EXAMINED  
DURING CONSTRUCTION  
FOR POTENTIAL TREE  
REMOVAL

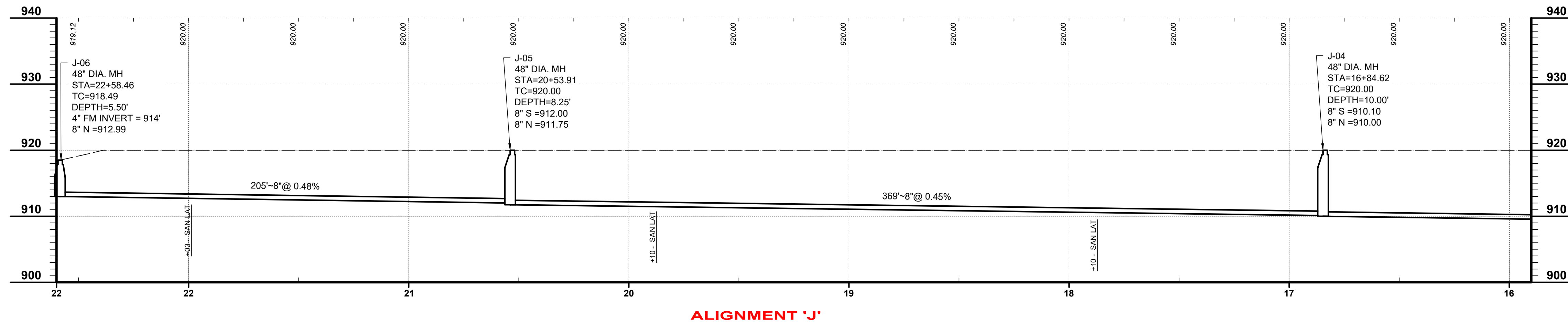
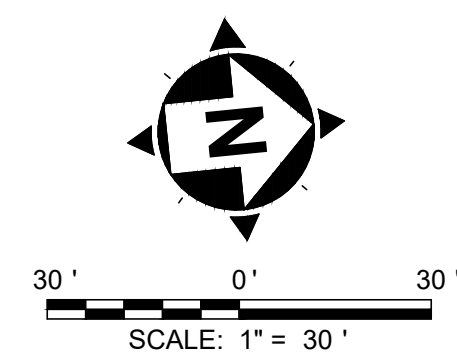
WAYNE TOWNSHIP TRUSTEES  
C/O RUBY REED CLERK  
14815 SR 136  
PID: 075-14-03-007.000  
1.26 ACRES

OBERSCHLAK BARRY COLE II  
& OR MARIA  
14845 SR 136  
PID: 075-14-03-005.000  
0.88 ACRES

FREELAND MARK A. TRUSTEES &  
TRACY L  
14893 SR 136  
PID: 075-14-03-004.000  
2.2 ACRES

FREELAND MARK A. TRUSTEES &  
TRACY L  
14893 SR 136  
PID: 075-14-03-003.000  
1.16 ACRES

FREELAND MARK A. TRUSTEES &  
TRACY L  
14893 SR 136  
PID: 075-14-03-002.000  
0.40 ACRES



**ADAMS COUNTY ECONOMIC  
DEVELOPMENT  
CHERRY FORK SANITARY SEWER  
ADAMS COUNTY, OHIO**

**PLAN AND PROFILE  
STA. 16+00 TO STA. 22+58 ALIGNMENT 'J'**

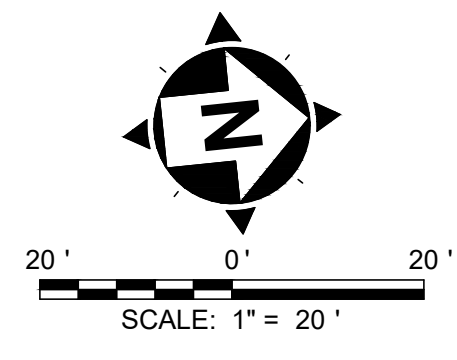
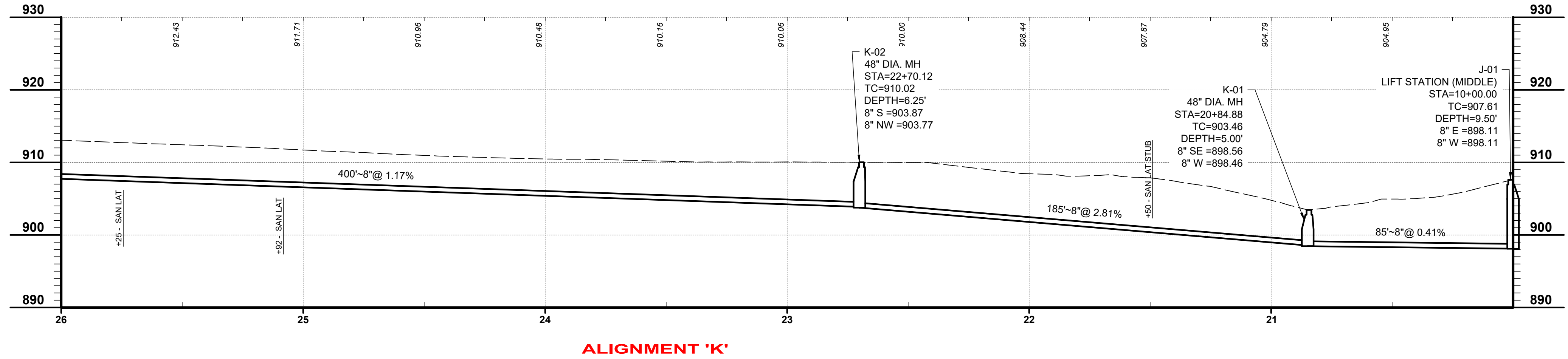
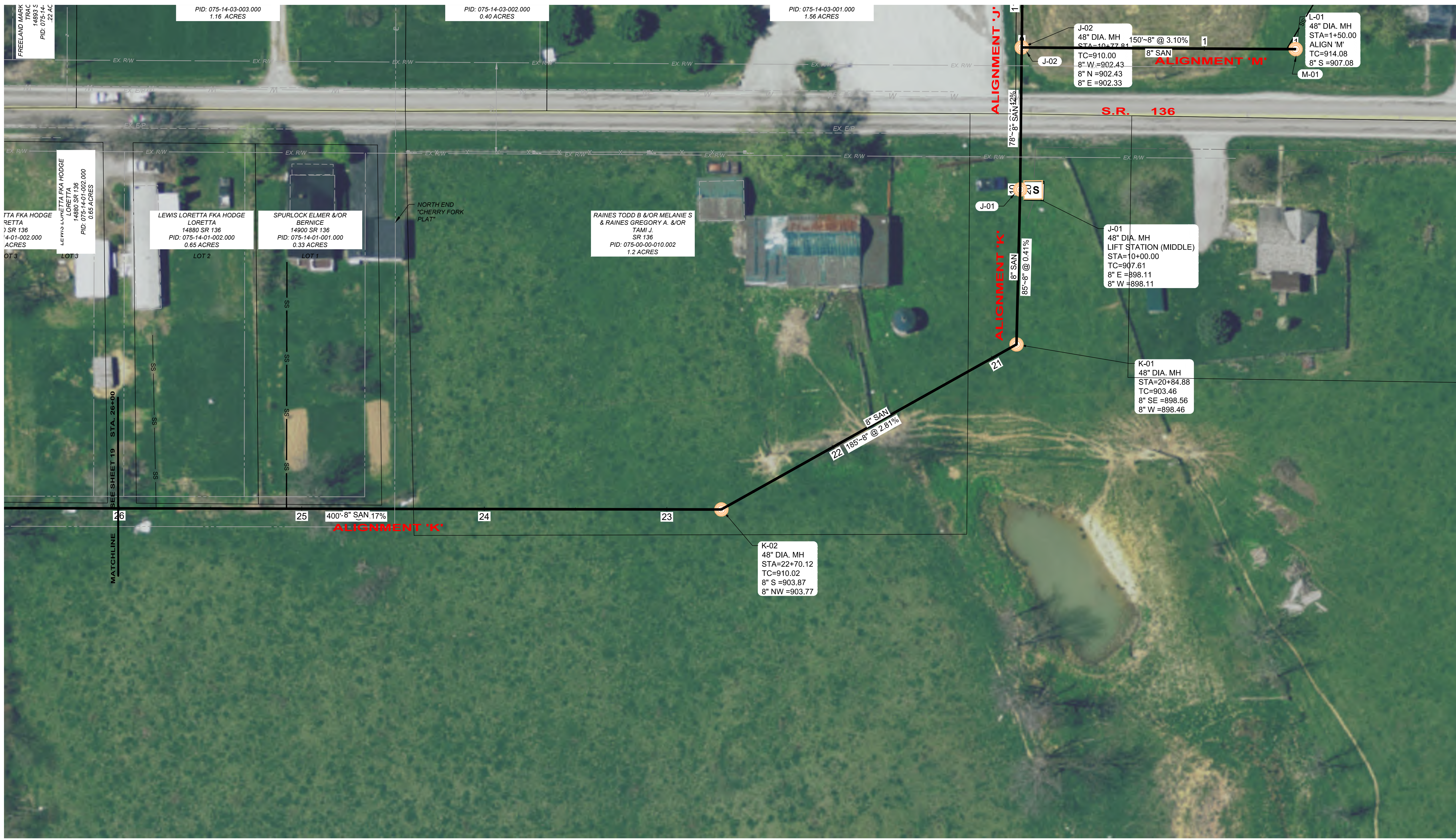
PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>PNP-13</b>	
SHEET <b>17</b>	OF <b>43</b>

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

your trusted advisor  
**consultants**

engineers  
architects  
planners





your trusted advisor  
**consultants**  
 engineers  
 architects  
 planners

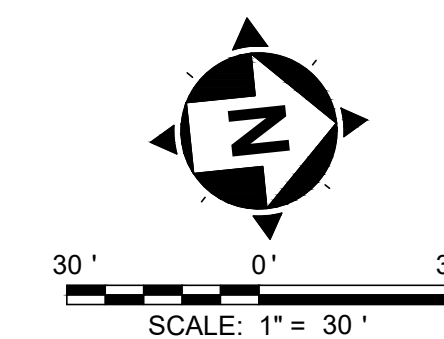
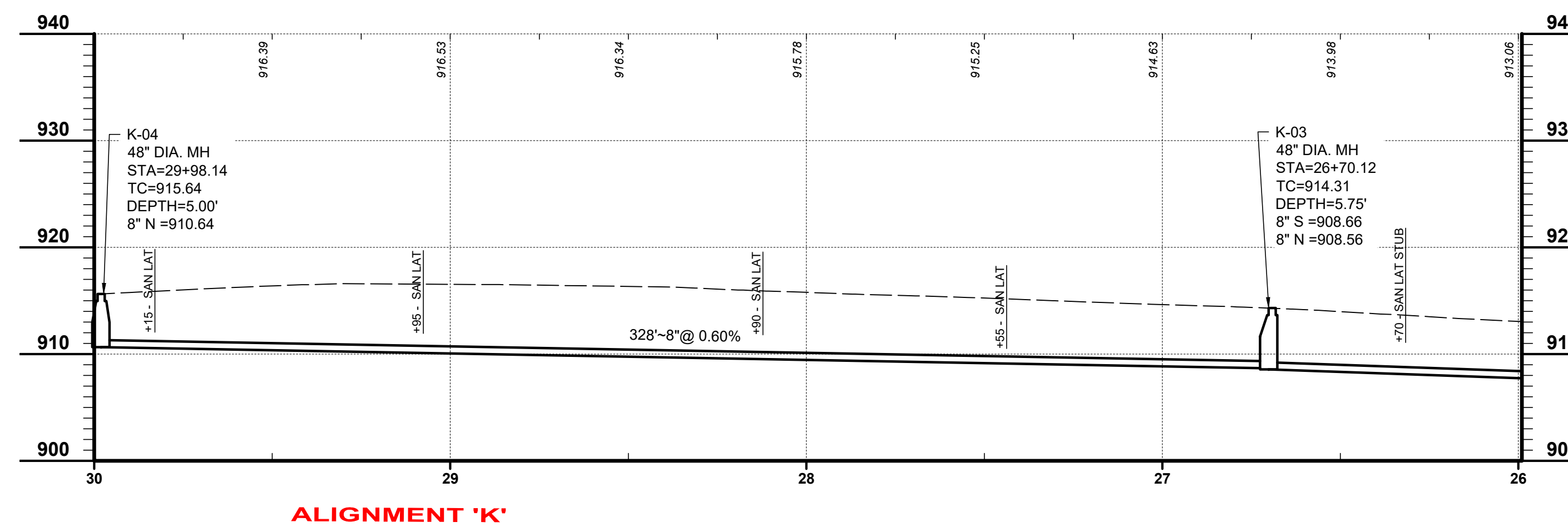
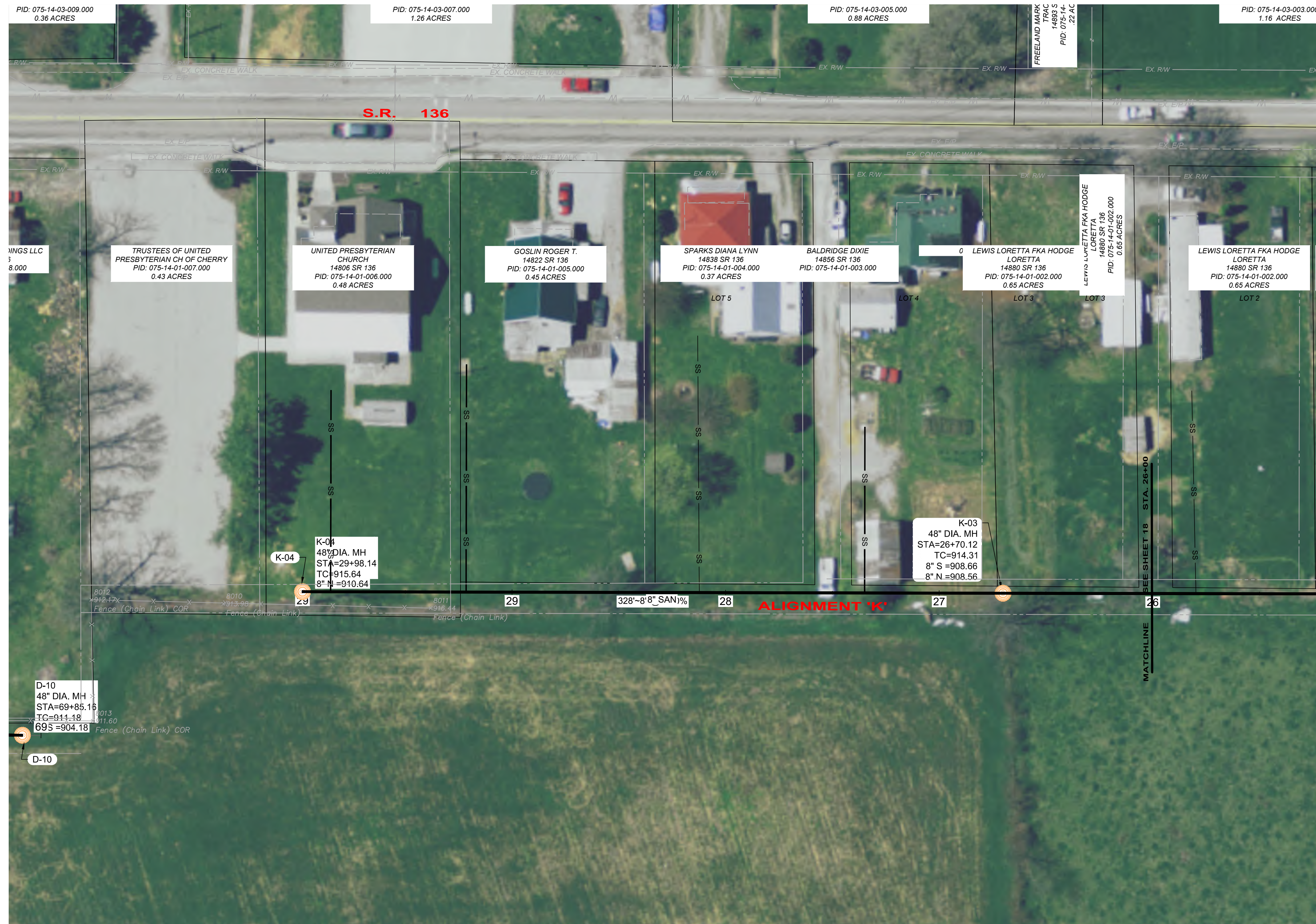
ISSUED FOR:	DATE
ISSUE DATE: OCTOBER 2023	
SCALE: AS SHOWN	
DESIGNED BY: JCOR	
DRAWN BY: JCOR	
CHECKED BY: KERY	

**ADAMS COUNTY ECONOMIC  
 DEVELOPMENT  
 CHERRY FORK SANITARY SEWER  
 ADAMS COUNTY, OHIO**

**PLAN AND PROFILE  
 STA. 20+00 TO STA. 26+00 ALIGNMENT 'K'**

PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>PNP-14</b>
SHEET	OF
<b>18</b>	<b>43</b>





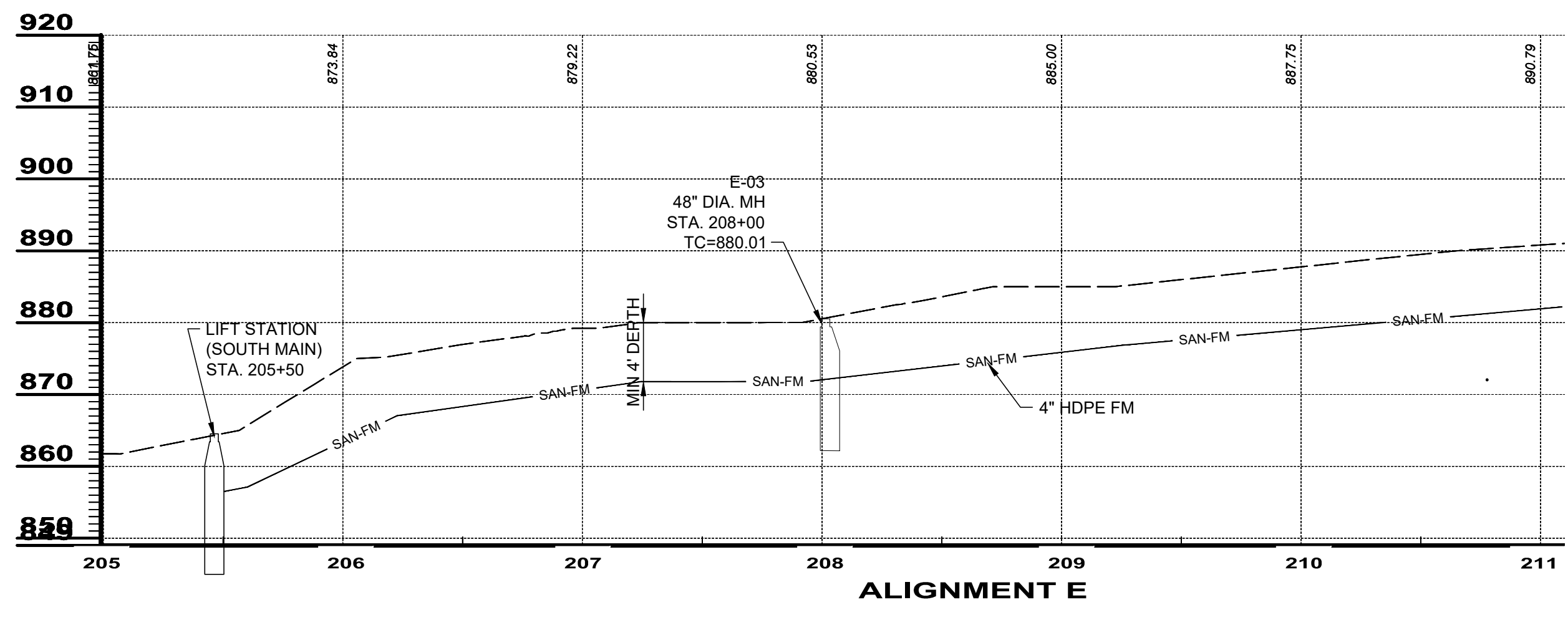
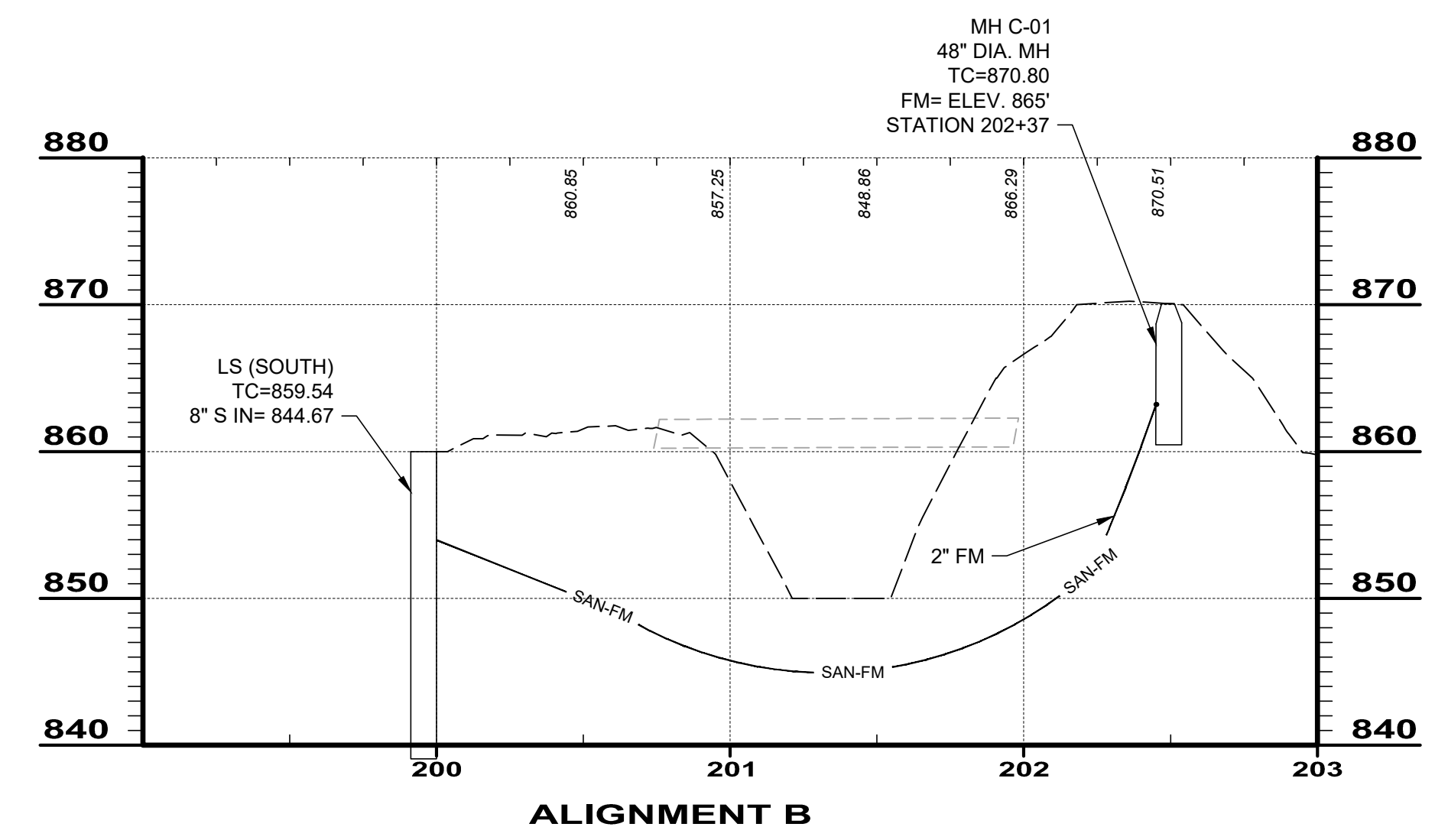
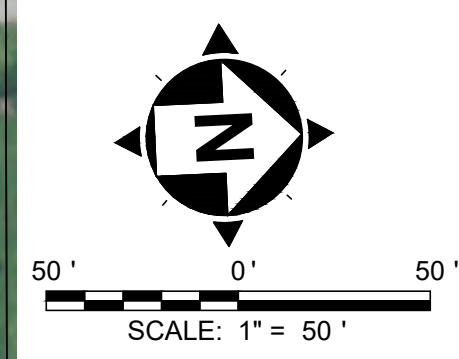
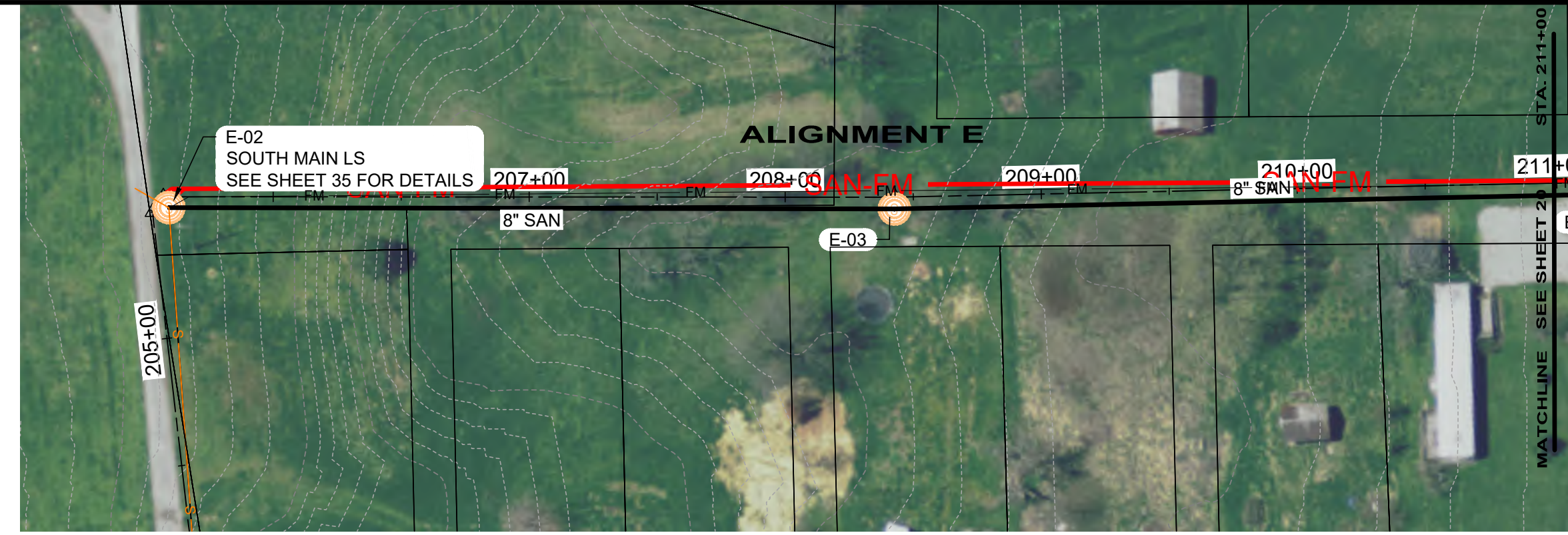
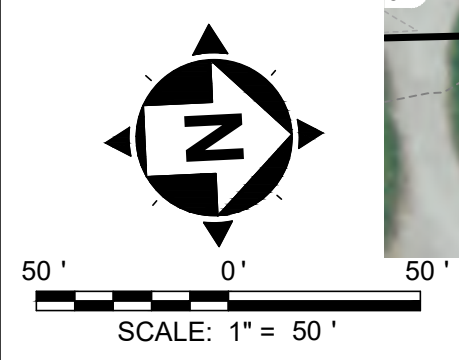
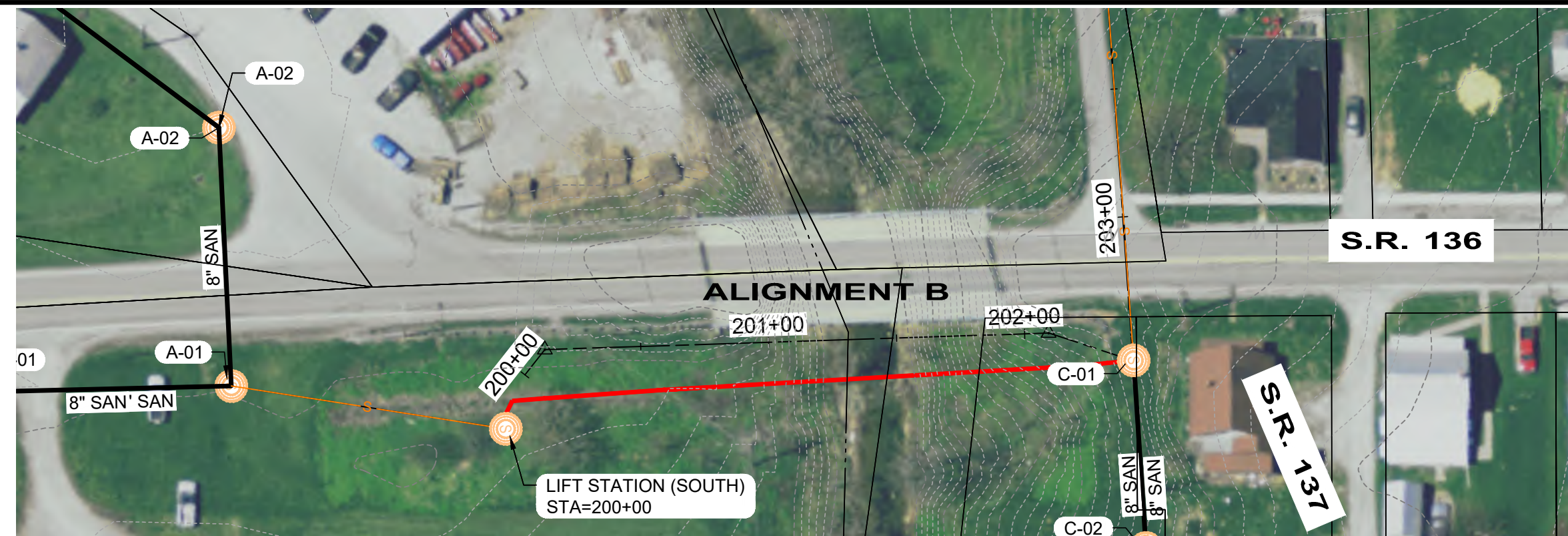
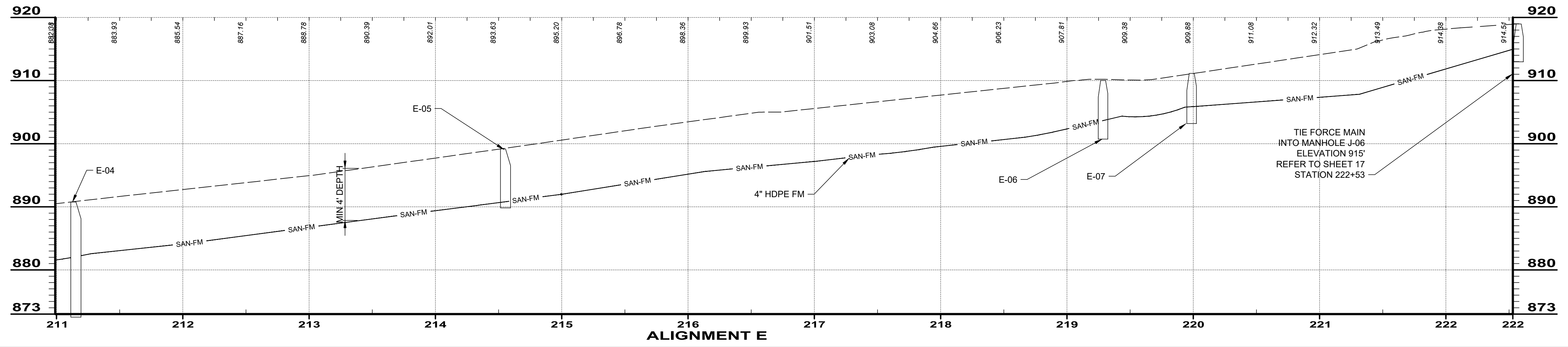
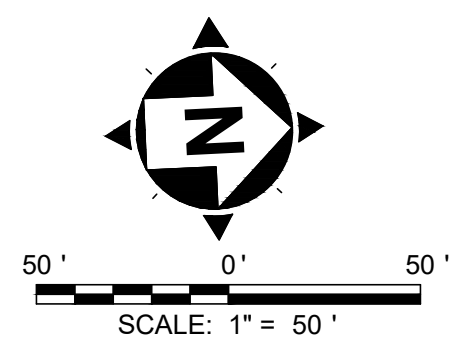
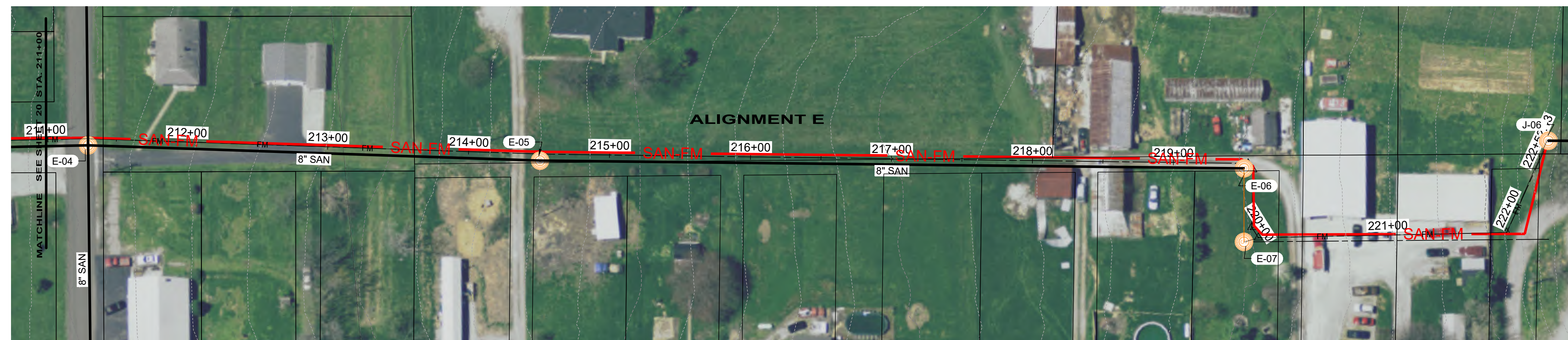
your trusted advisor  
**CONSULTANTS**  
 engineers  
 architects  
 planners

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**PLAN AND PROFILE**  
**STA. 26+00 TO STA. 30+00 ALIGNMENT 'K'**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PNP-15
SHEET	OF
19	43





your trusted advisor  
**CONSULTANTS**  
 engineers  
 architects  
 planners

NO	REVISION	DATE

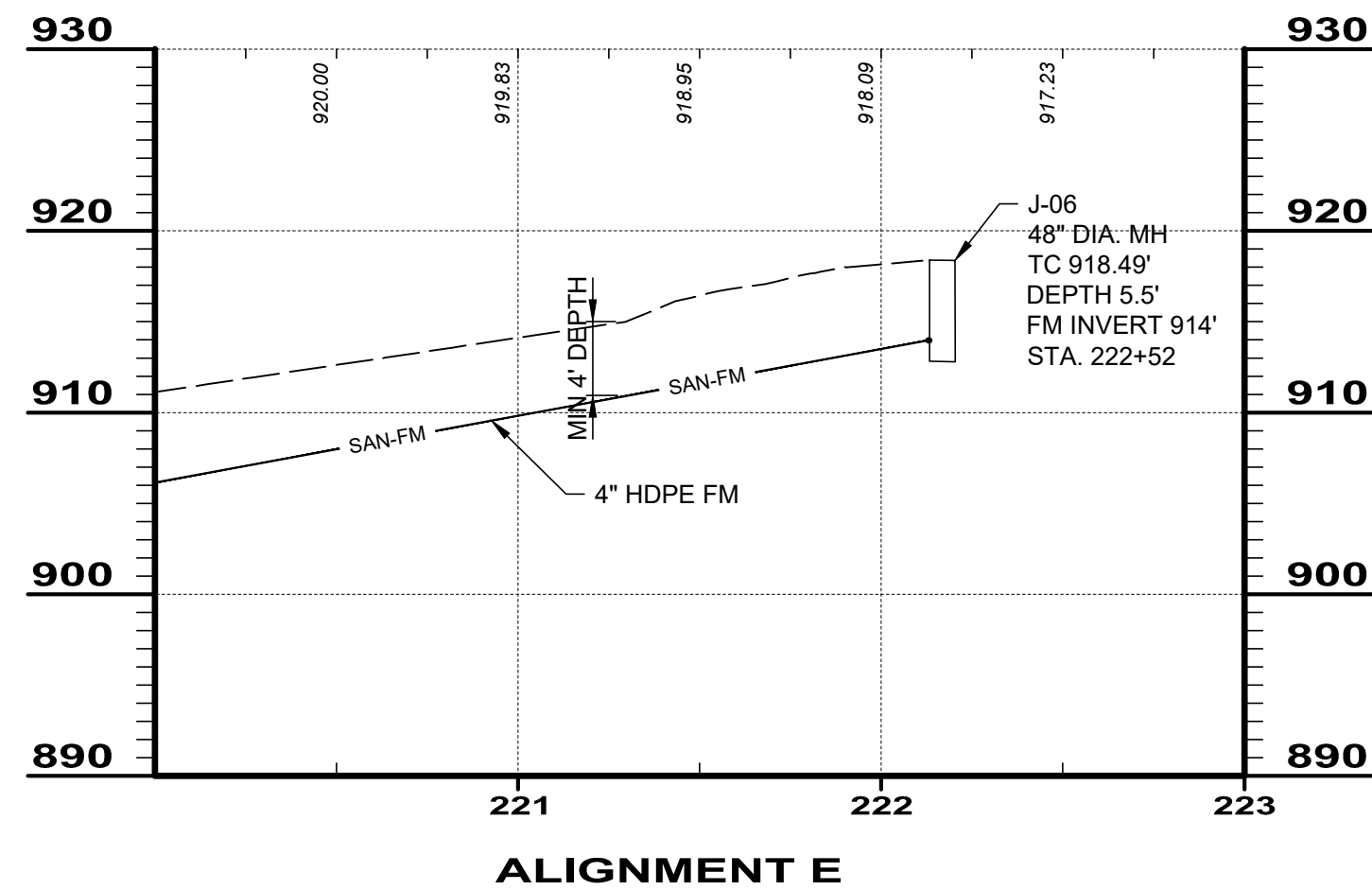
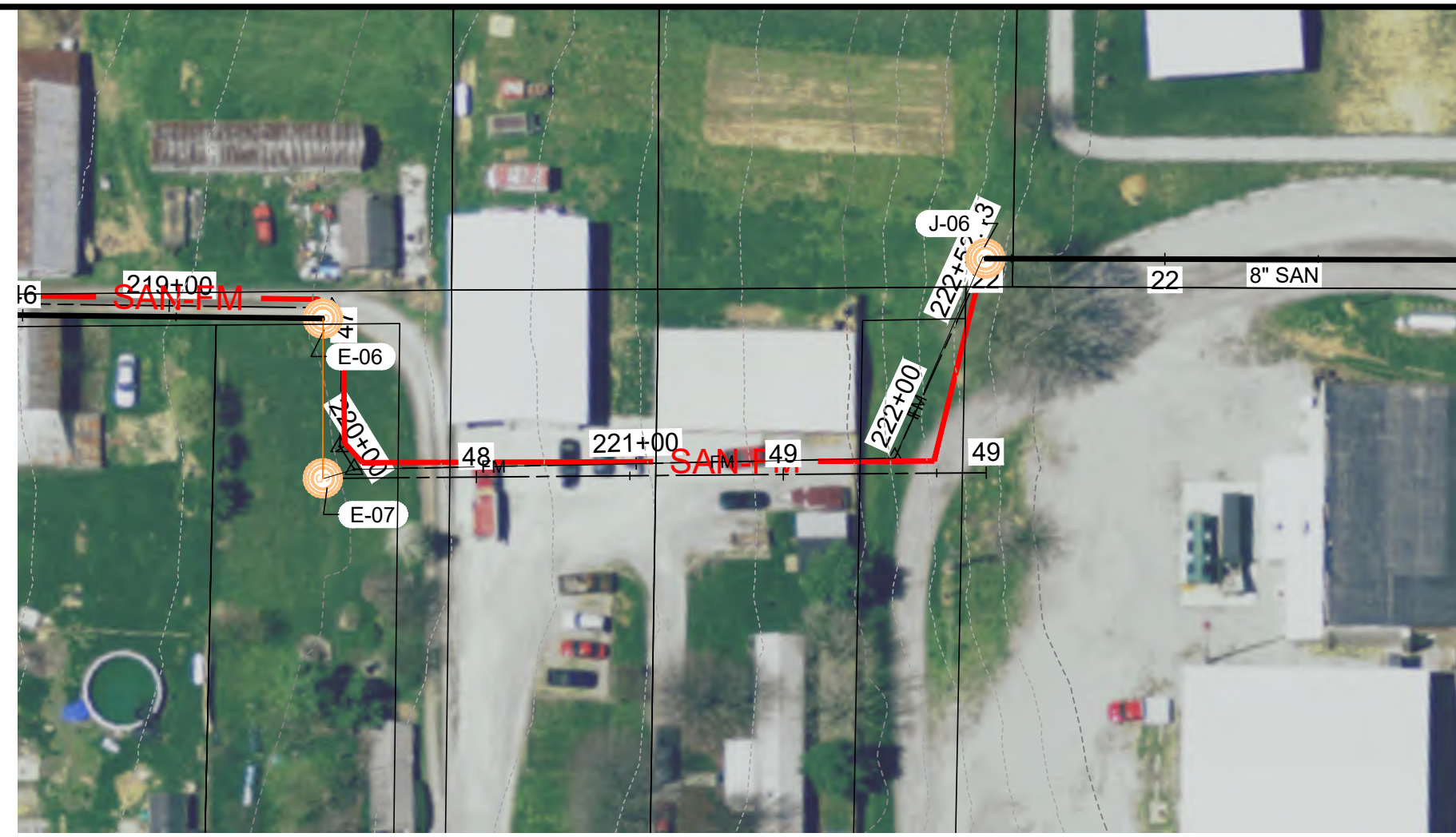
ISSUED FOR:                     
 ISSUE DATE: OCTOBER 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JCOR  
 DRAWN BY: JCOR  
 CHECKED BY: KGRY

**ADAMS COUNTY ECONOMIC  
 DEVELOPMENT  
 CHERRY FORK SANITARY SEWER  
 ADAMS COUNTY, OHIO**

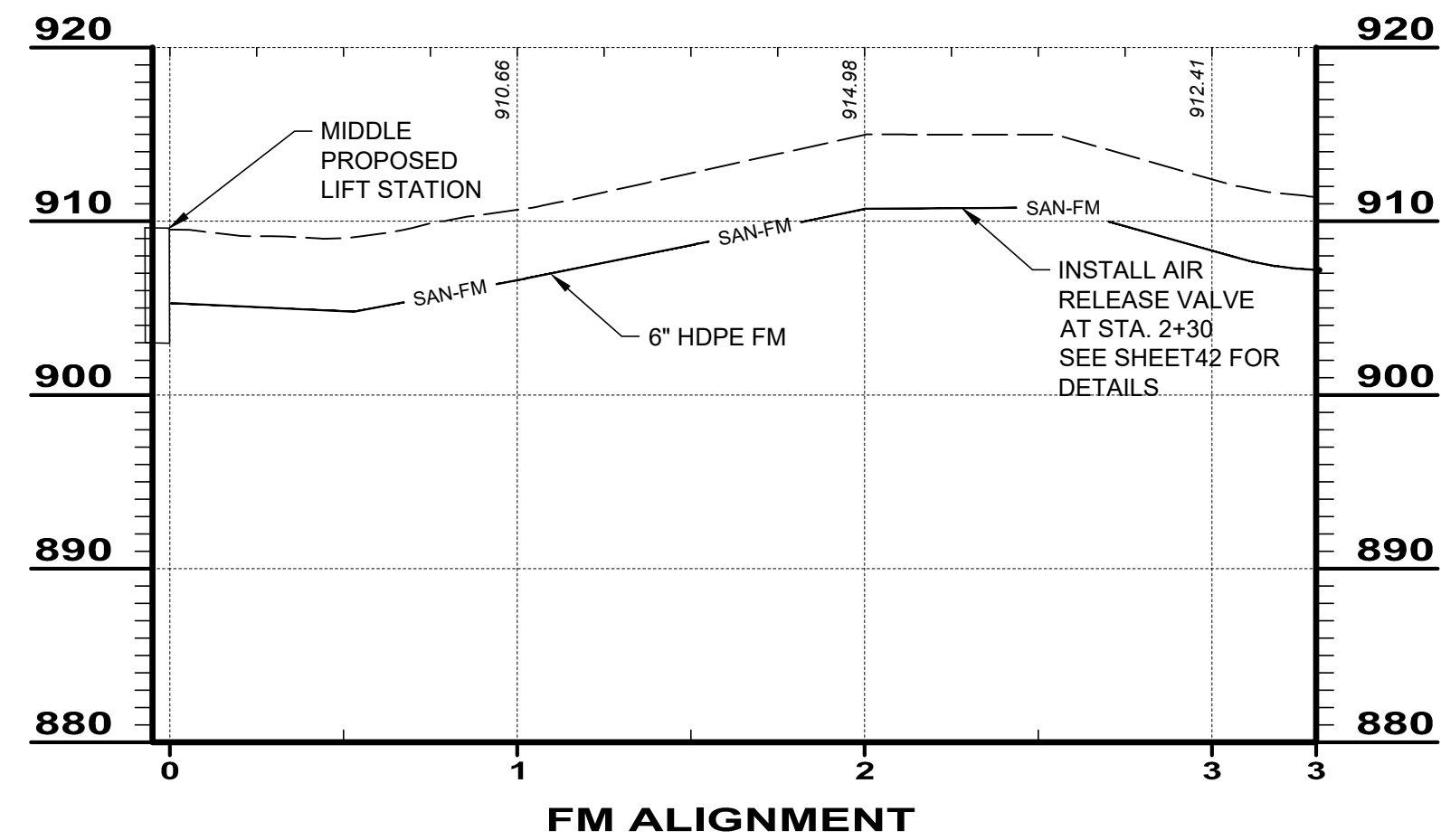
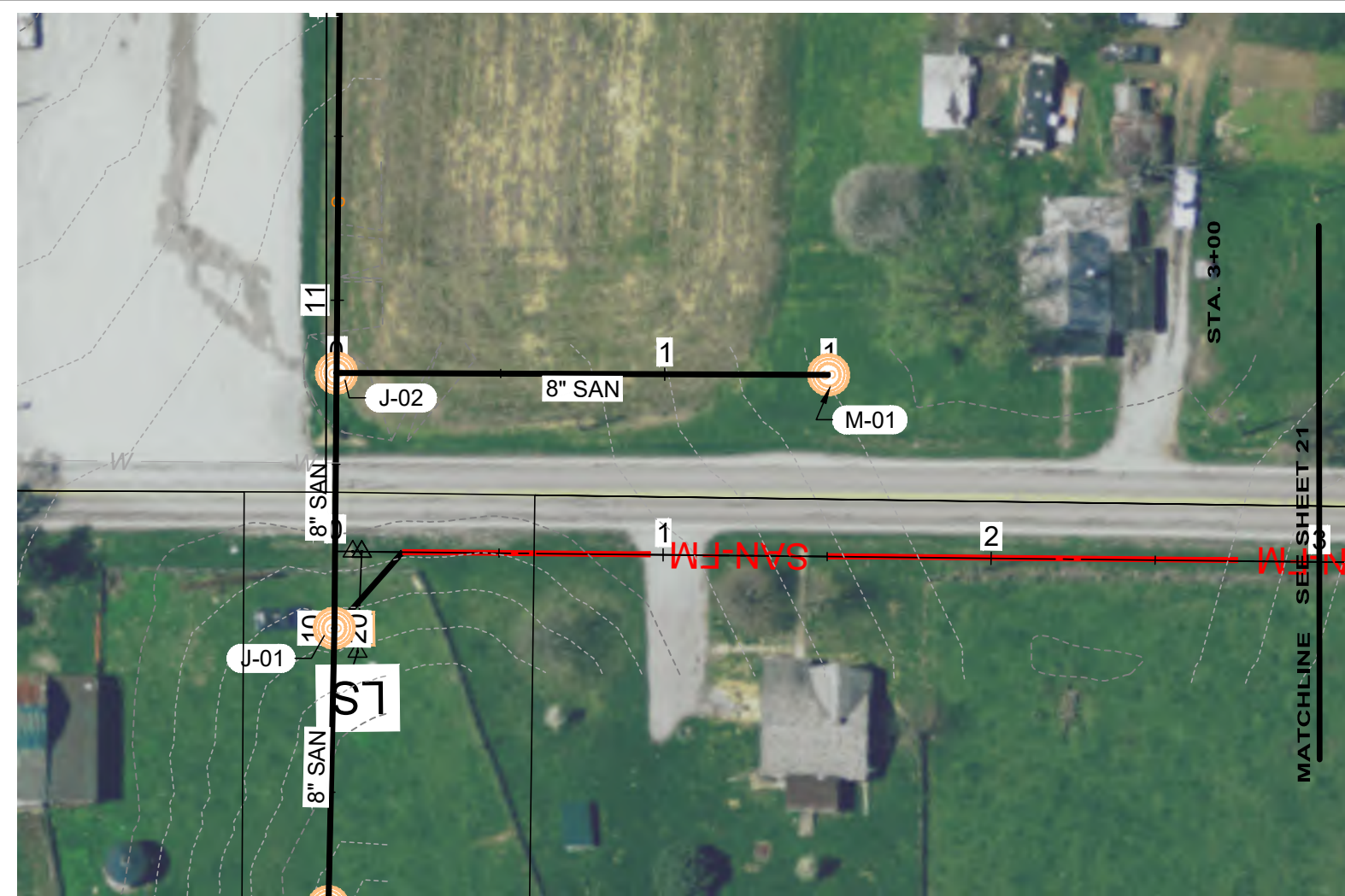
**S.R. 136 FORCE MAIN  
 STA. 200+00 TO STA. 222+52**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-01
SHEET	20
OF	43

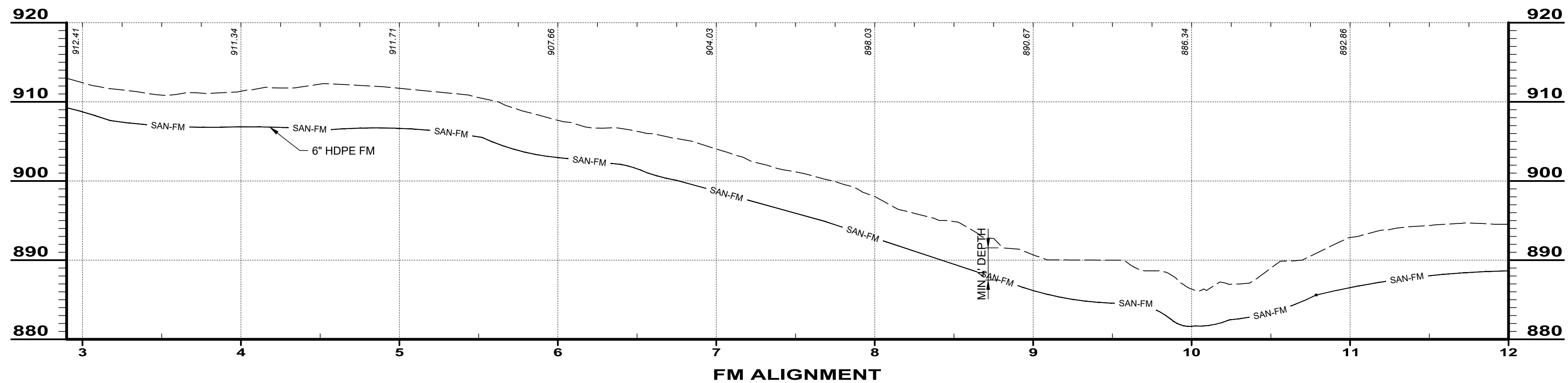
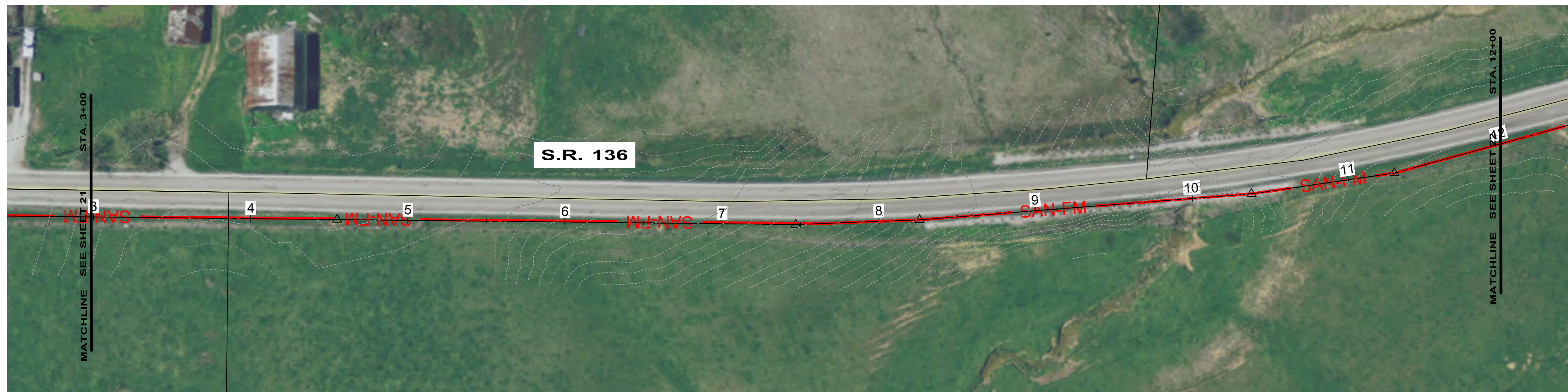
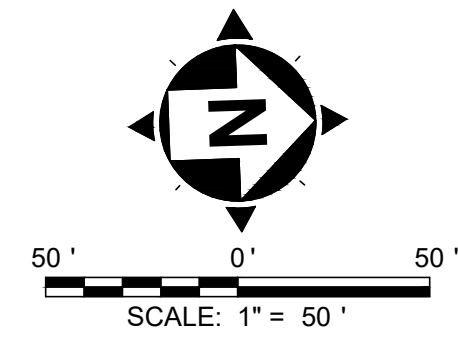




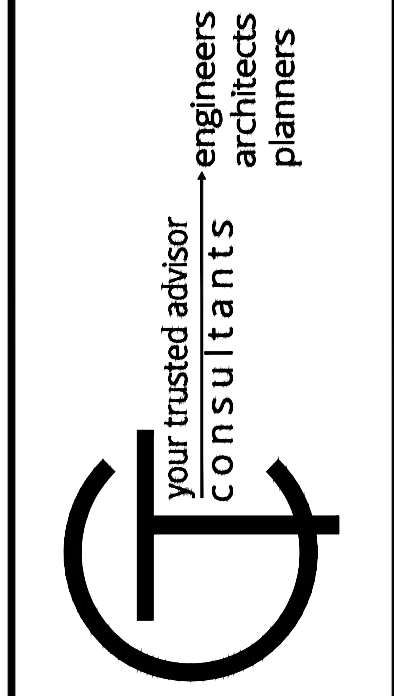
ALIGNMENT E



FM ALIGNMENT



FM ALIGNMENT

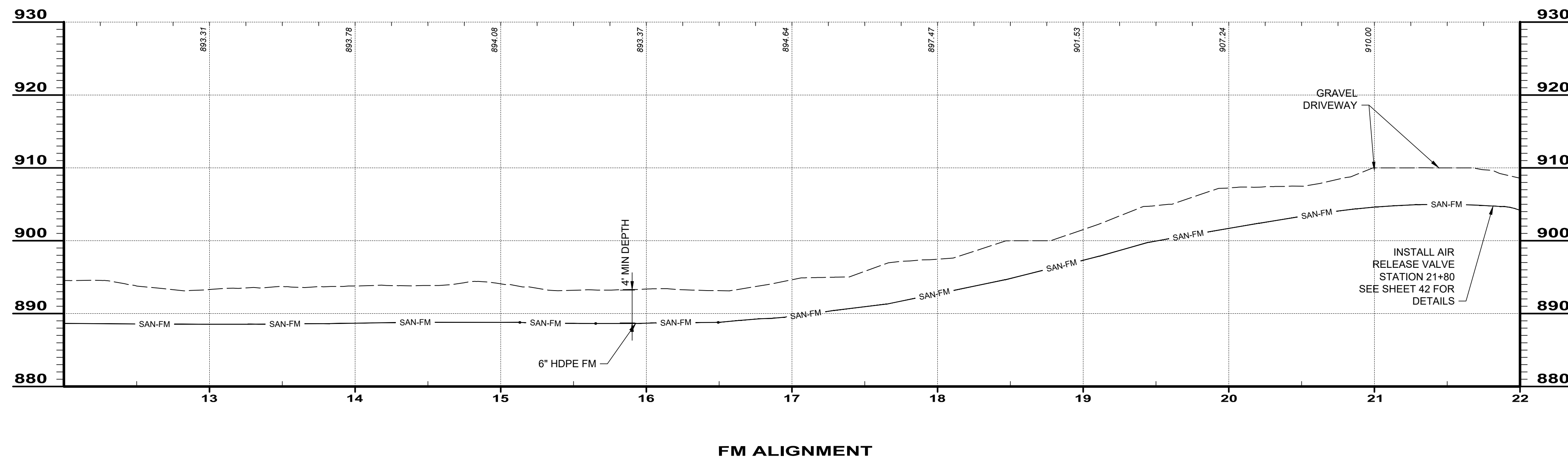
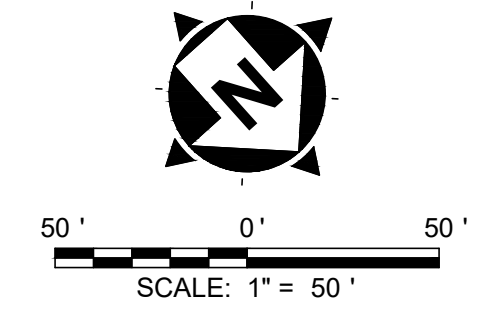


NO	REVISION	DATE

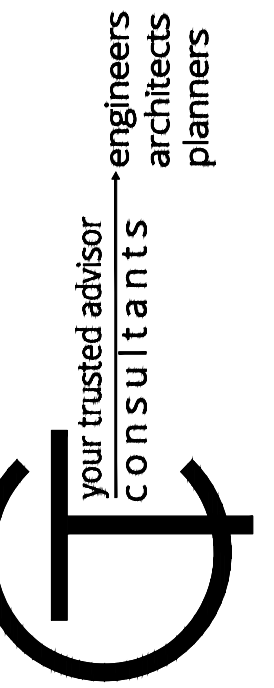
ISSUED FOR: ADAMS COUNTY ECONOMIC DEVELOPMENT  
 ISSUE DATE: OCTOBER 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JCOR  
 DRAWN BY: JCOR  
 CHECKED BY: KGRY

PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>FM-02</b>	
SHEET <b>21</b>	OF <b>43</b>





FM ALIGNMENT

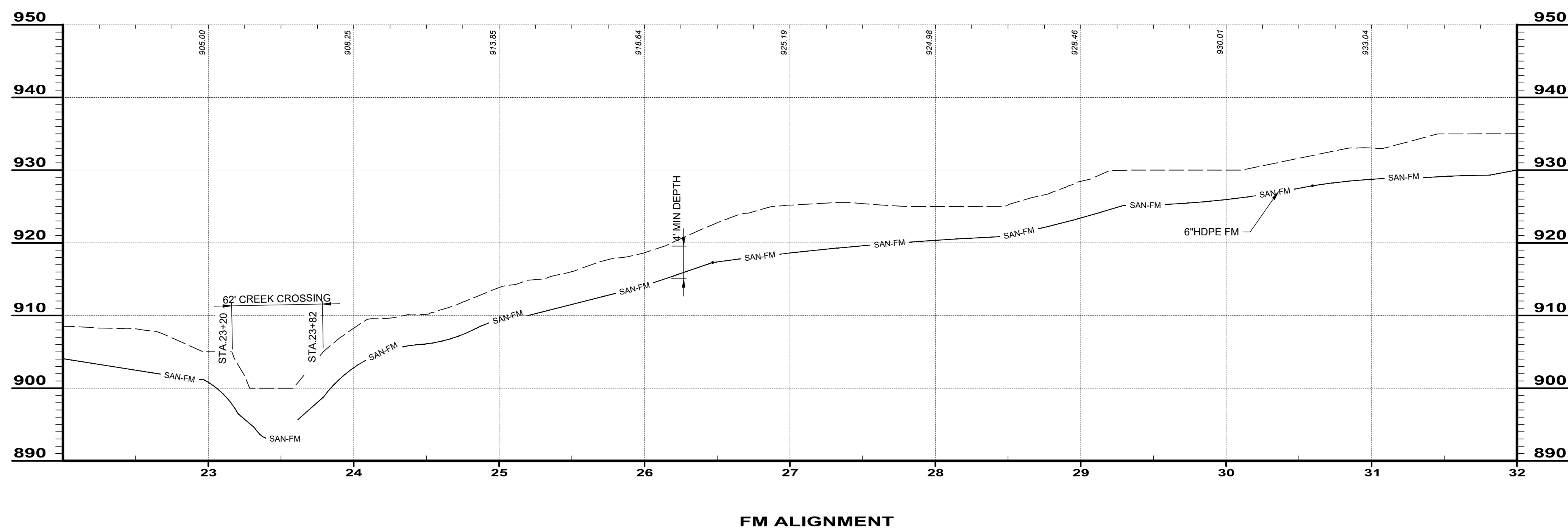
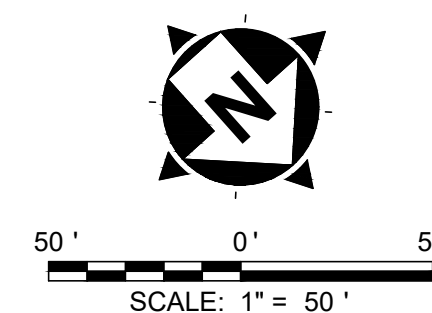


ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 12+00 TO STA. 22+00**

PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>FM-03</b>	
SHEET <b>22</b>	OF <b>43</b>





**ADAMS COUNTY ECONOMIC  
DEVELOPMENT  
CHERRY FORK SANITARY SEWER  
ADAMS COUNTY, OHIO**

**S.R. 136 FORCE MAIN  
STA. 22+00 TO STA. 32+20**

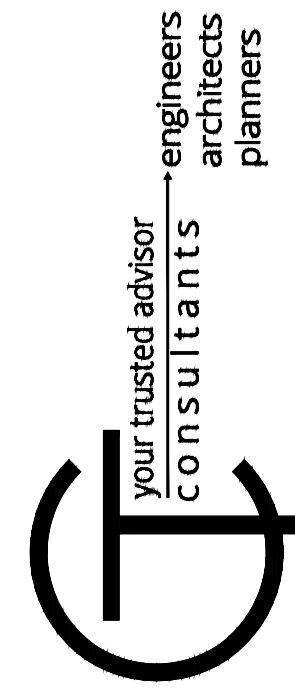
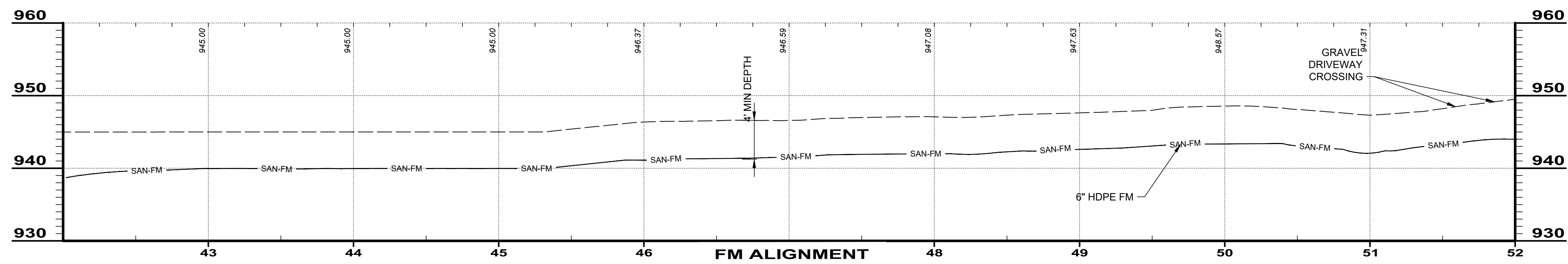
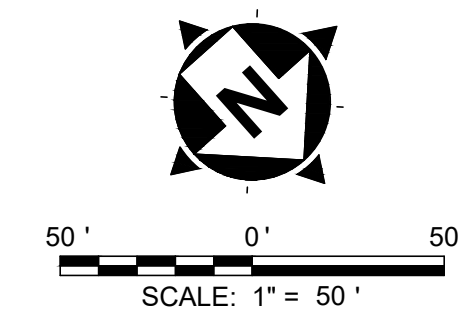
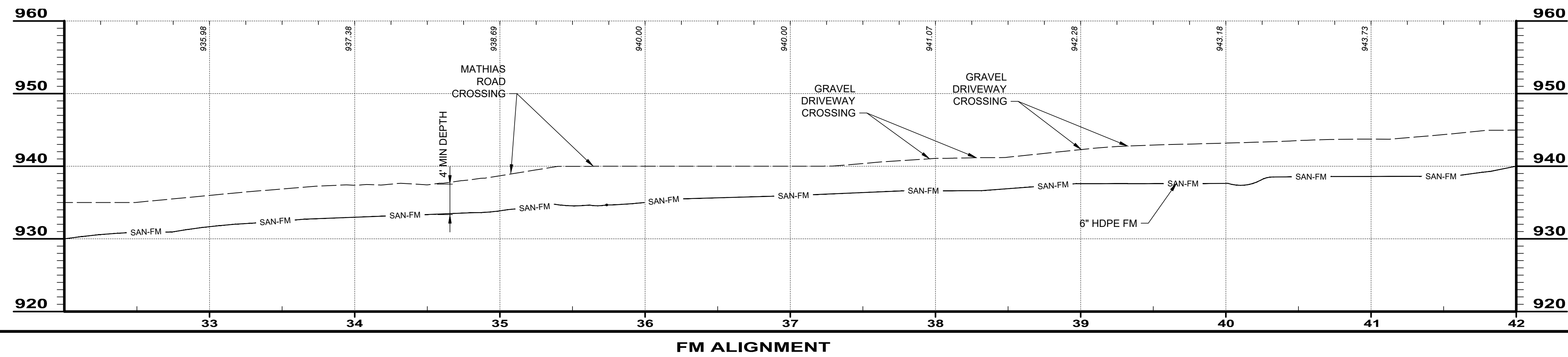
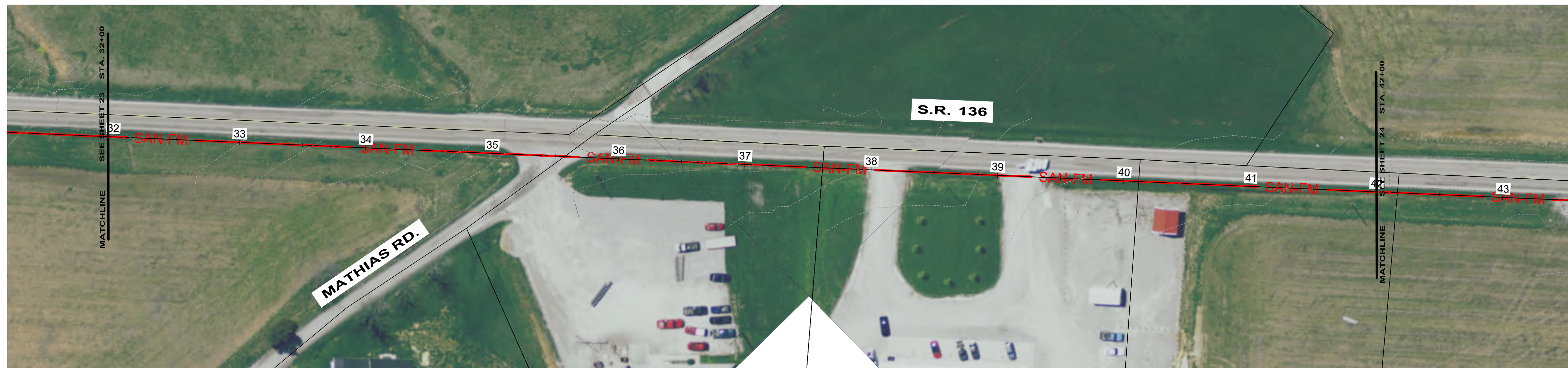
PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>FM-04</b>	
SHEET <b>23</b>	OF <b>43</b>

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

**your trusted advisor**  
**consultants**

engineers  
architects  
planners





NO.	REVISION	DATE

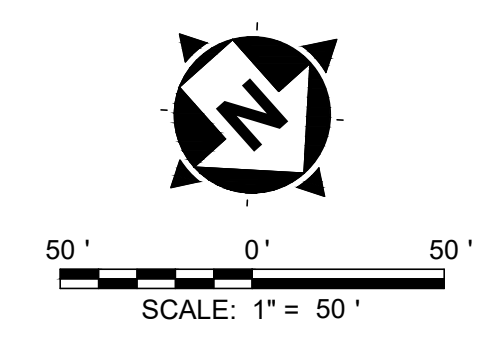
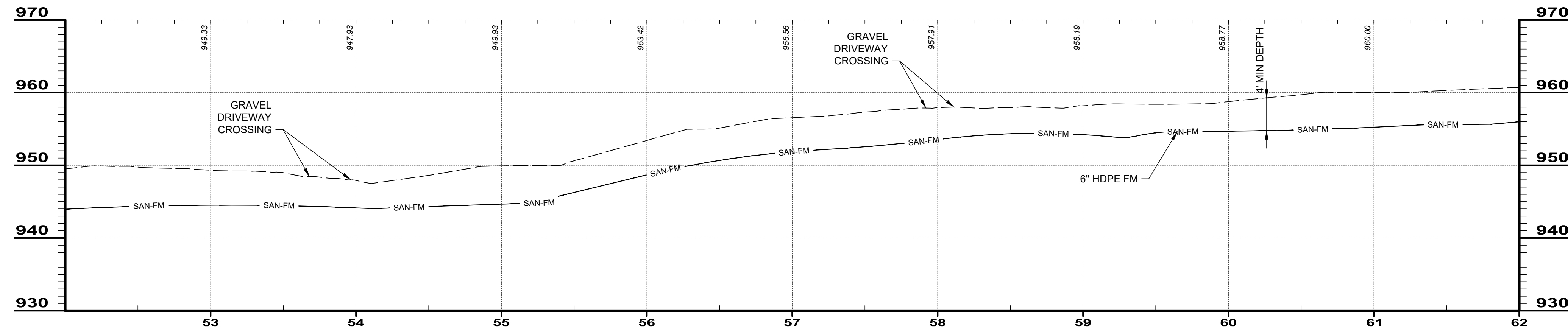
  

ISSUED FOR:	ADAMS COUNTY ECONOMIC DEVELOPMENT
ISSUE DATE:	OCTOBER 2023
SCALE:	AS SHOWN
DESIGNED BY:	JCOR
DRAWN BY:	JCOR
CHECKED BY:	KERY

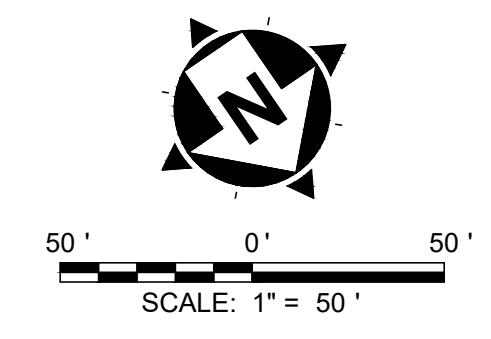
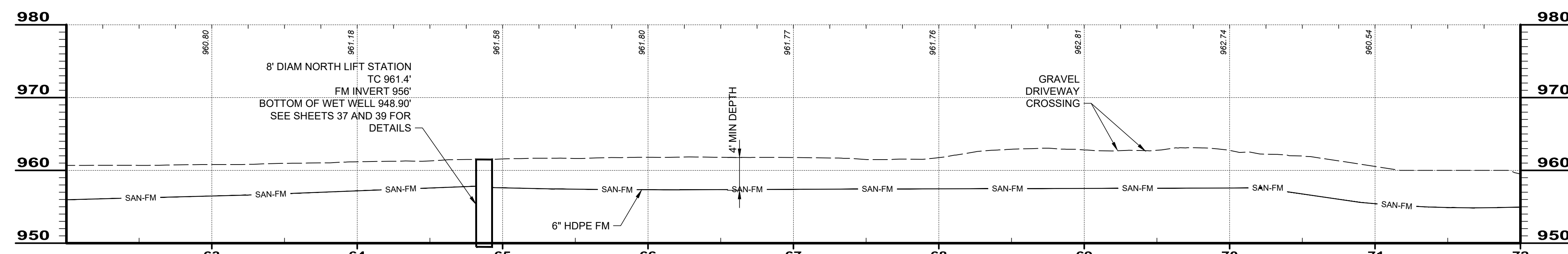
**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 32+00 TO STA. 52+00**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-05
SHEET	24
OF	43

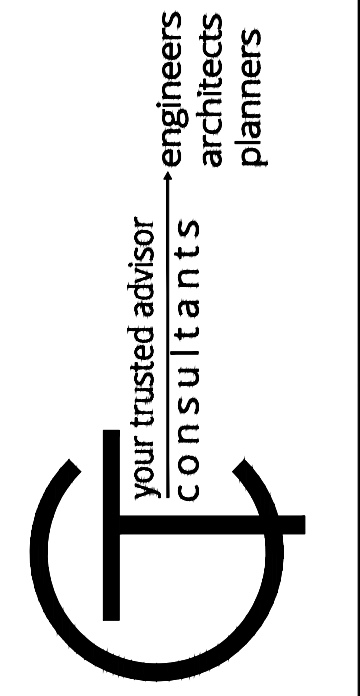




FM ALIGNMENT



FM ALIGNMENT



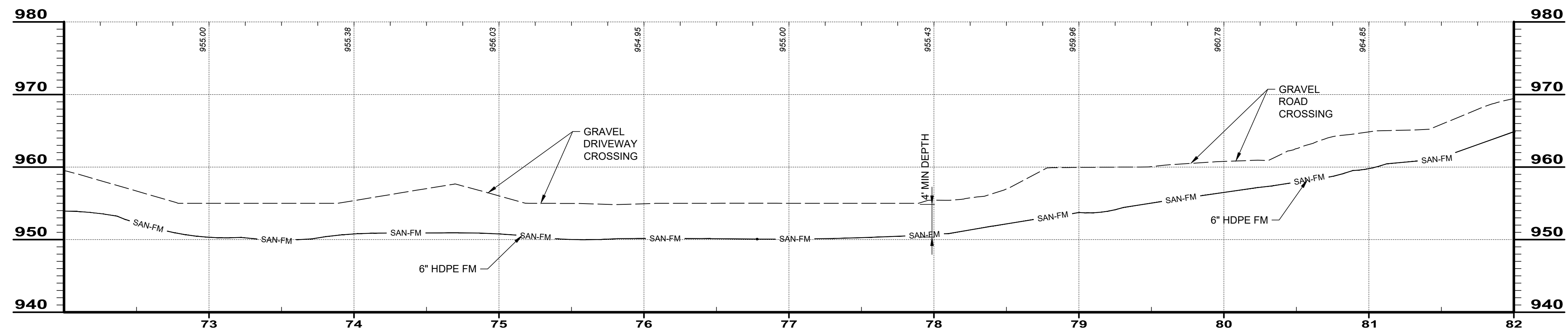
NO	REVISION	DATE

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 52+00 TO STA. 72+00**

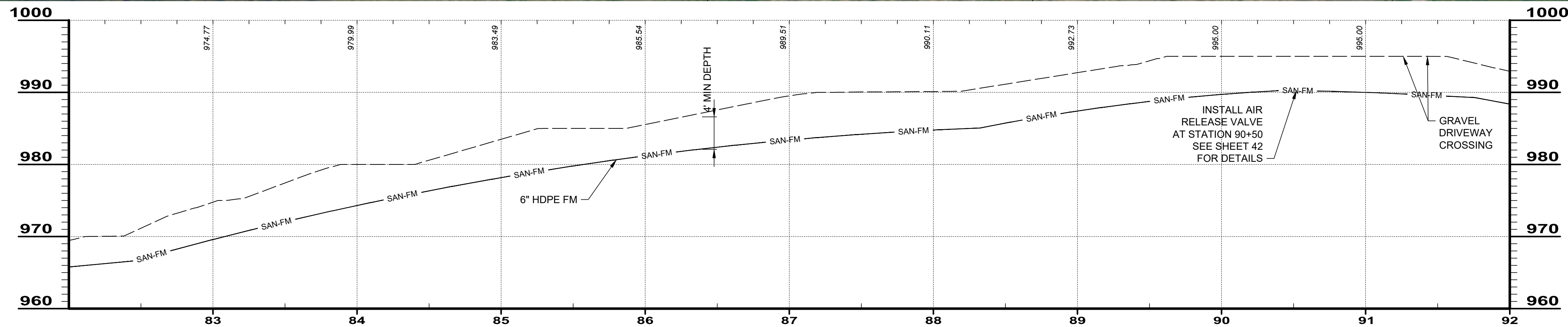
PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-06
SHEET	25
OF	43

H:\0202\2024\2024\02\02\EST\220432\_PNP-FM.DWG - FM\_52-72 - 020204 12:10:53 PM - JONATHAN REYNOLDS

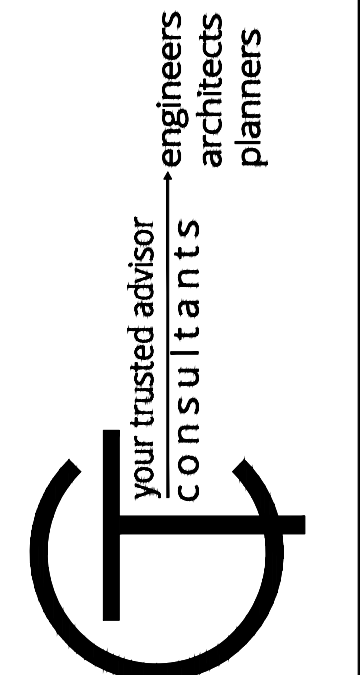




FM ALIGNMENT



FM ALIGNMENT



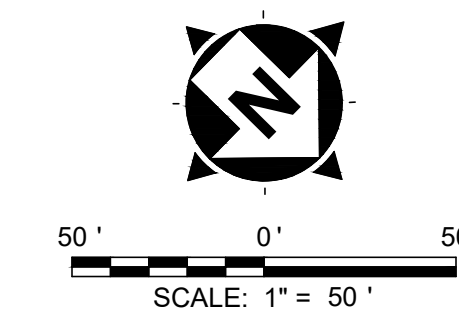
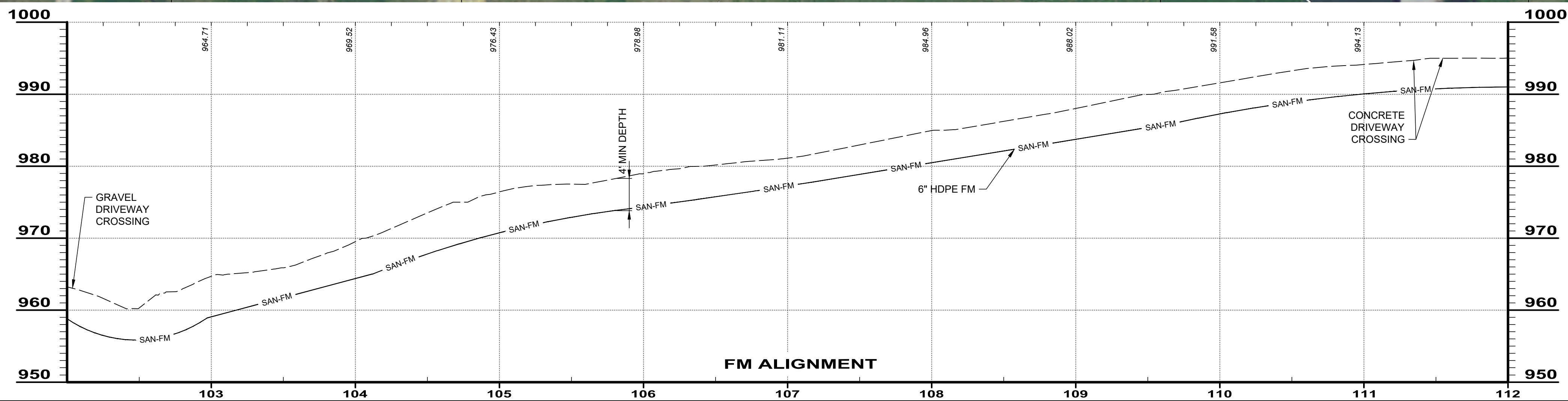
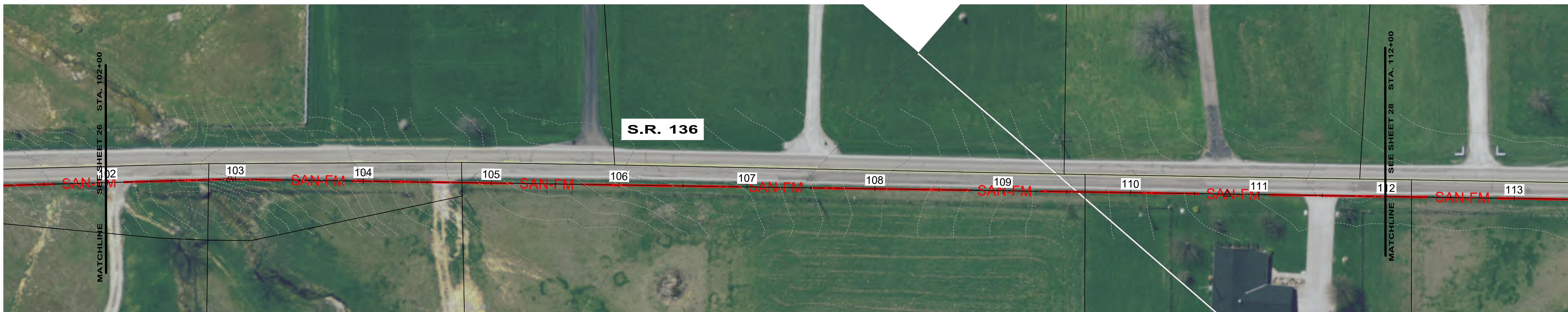
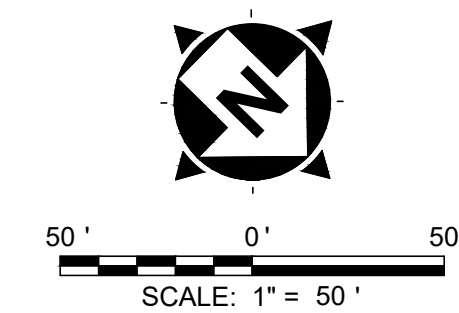
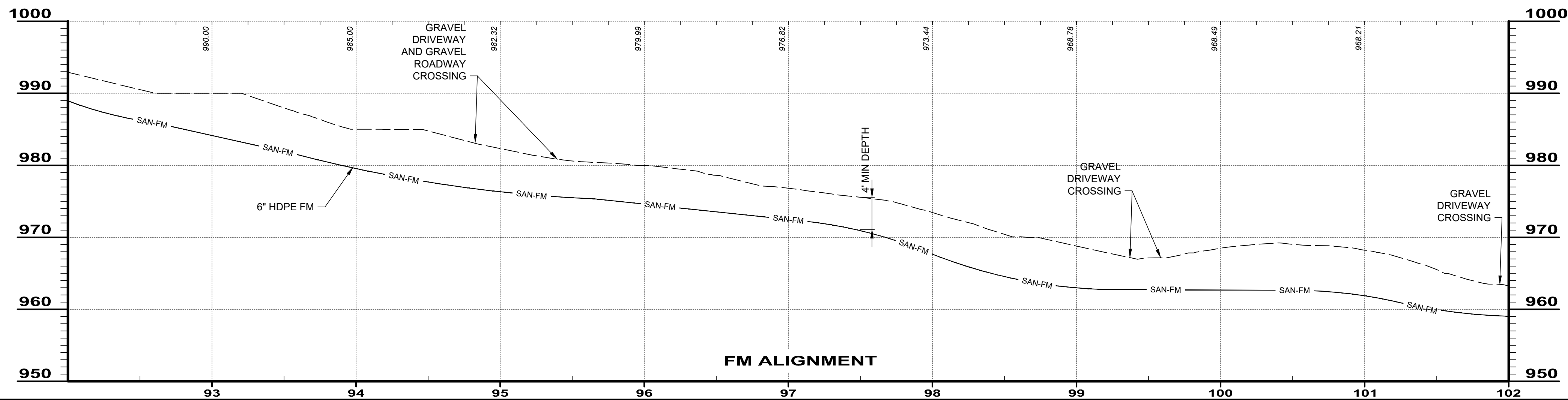
NO	REVISION	DATE

ISSUED FOR: ADAMS COUNTY ECONOMIC DEVELOPMENT  
 PROJECT NO: 220432  
 DISCIPLINE: CIVIL  
 SHEET NAME: FM-07  
 SHEET 26 OF 43

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-07
SHEET	26
OF	43

H:\2022\20432\DWG\ESTC\_20432\_PMP-FM-DWG - FM\_72-92 - 6/25/2024 12:10:53 PM - JONATHAN REYNOLDS





your trusted advisor  
engineers  
architects  
planners  
**consultants**

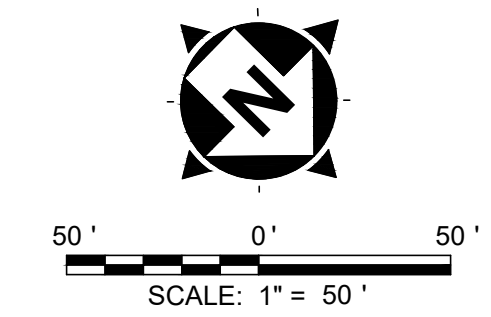
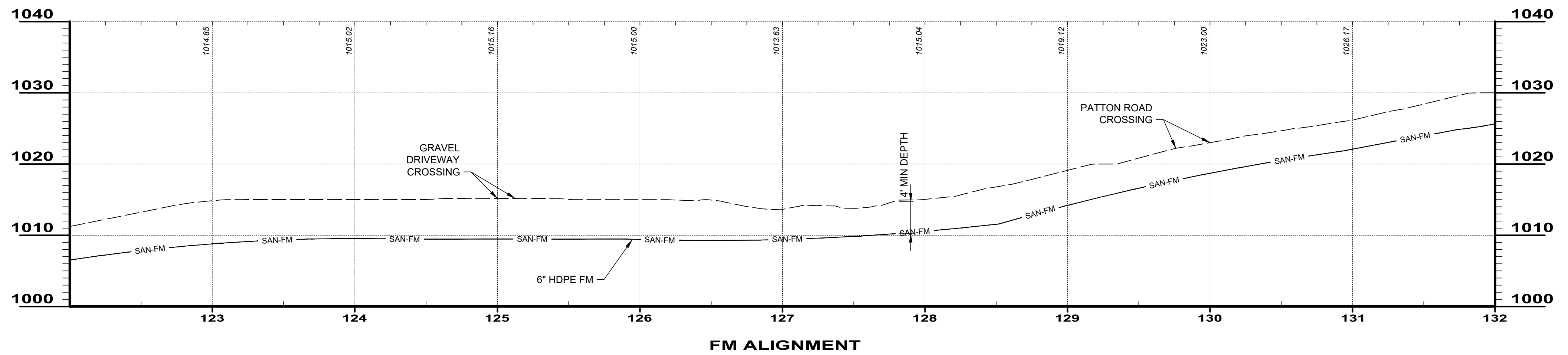
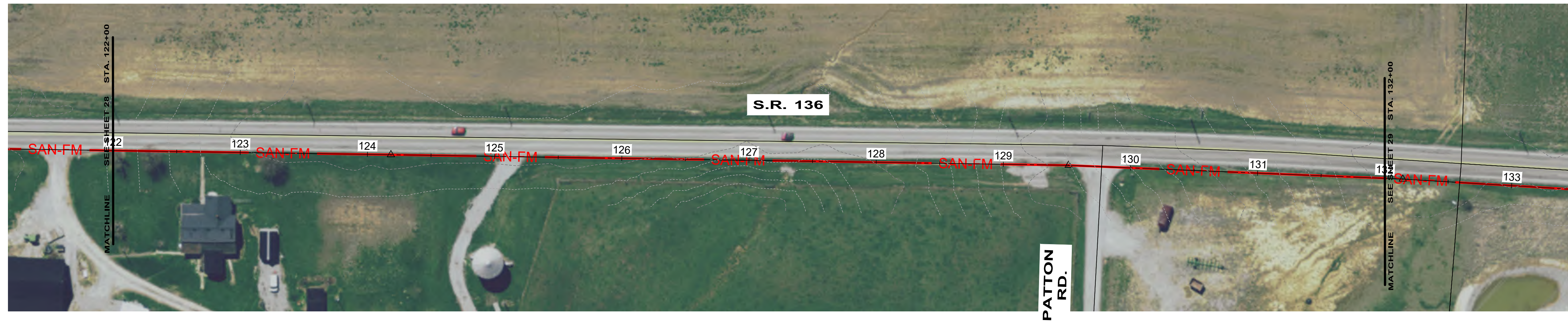
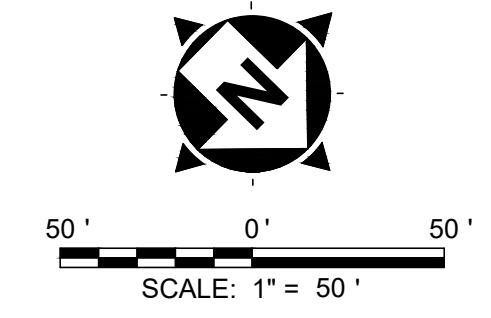
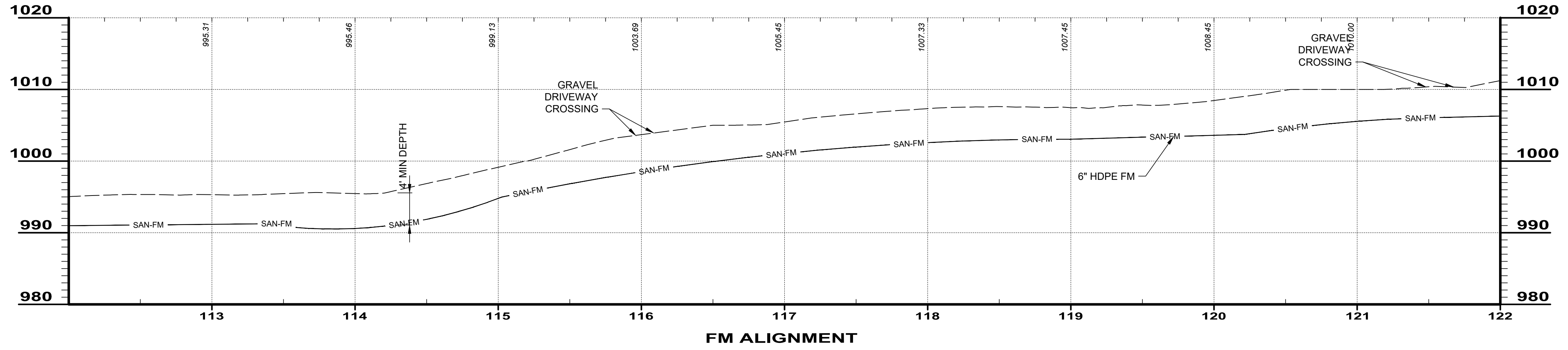
NO	REVISION	DATE

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
ADAMS COUNTY, OHIO

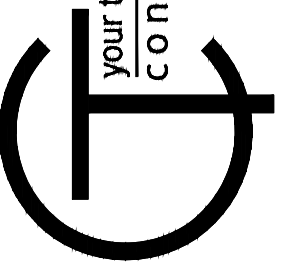
**S.R. 136 FORCE MAIN**  
**STA. 92+00 TO STA. 112+00**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-08
SHEET	27
OF	43





your trusted advisor  
**consultants**  
 engineers  
 architects  
 planners



NO	REVISION	DATE

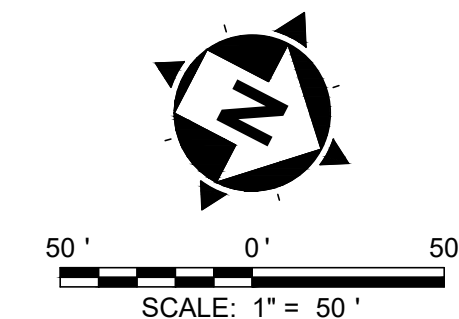
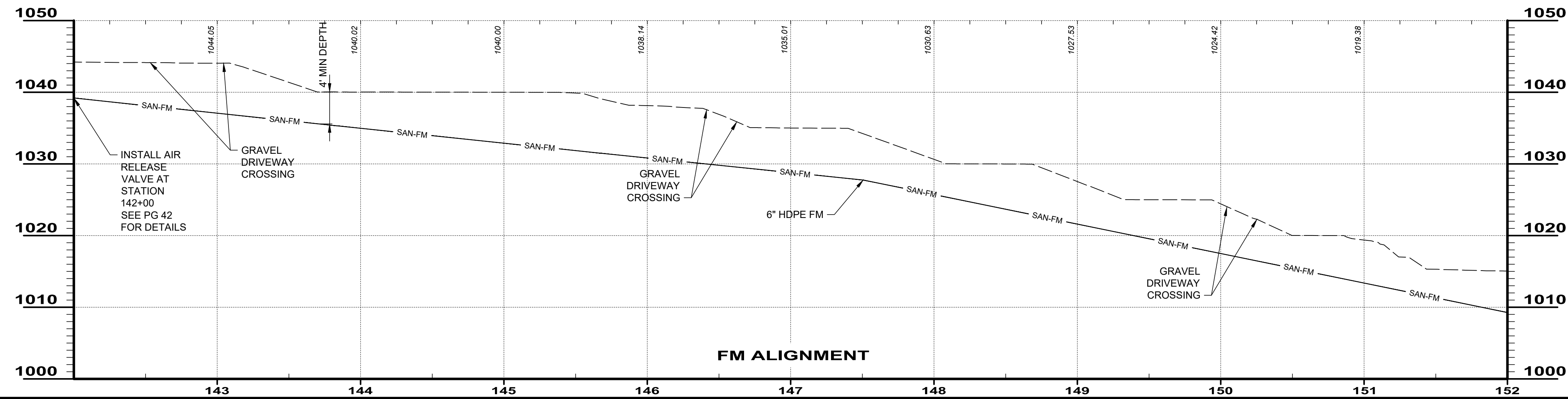
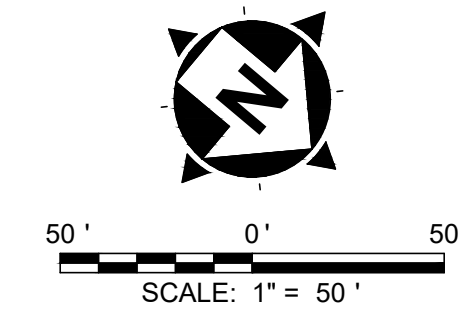
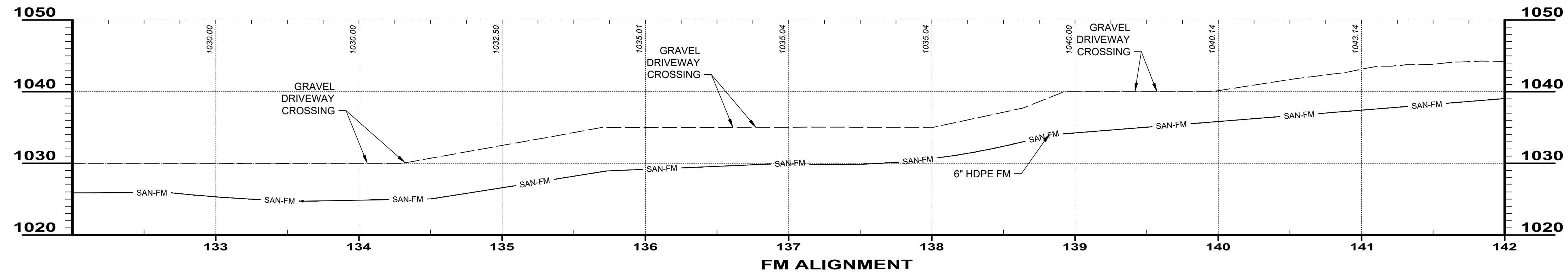
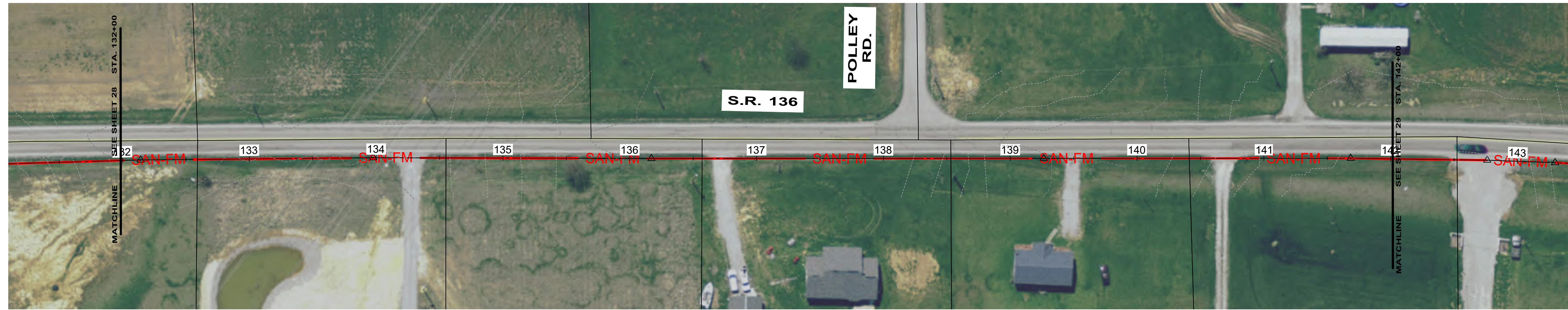
ISSUED FOR: **ADAMS COUNTY ECONOMIC DEVELOPMENT**  
 ISSUE DATE: **OCTOBER 2023**  
 SCALE: **AS SHOWN**  
 DESIGNED BY: **JCOR**  
 DRAWN BY: **JCOR**  
 CHECKED BY: **KERY**

**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO

**S.R. 136 FORCE MAIN**  
**STA. 112+00 TO STA. 132+00**

PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>FM-09</b>
SHEET	OF
<b>28</b>	<b>43</b>





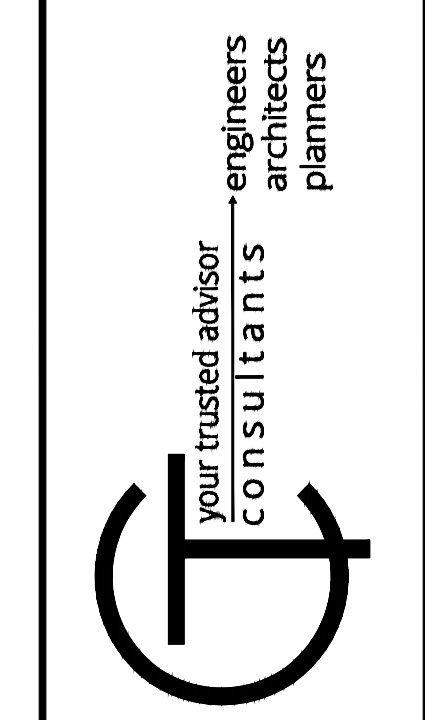
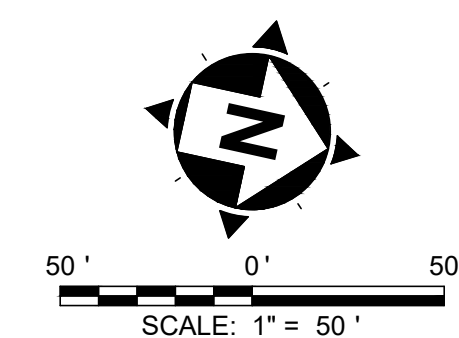
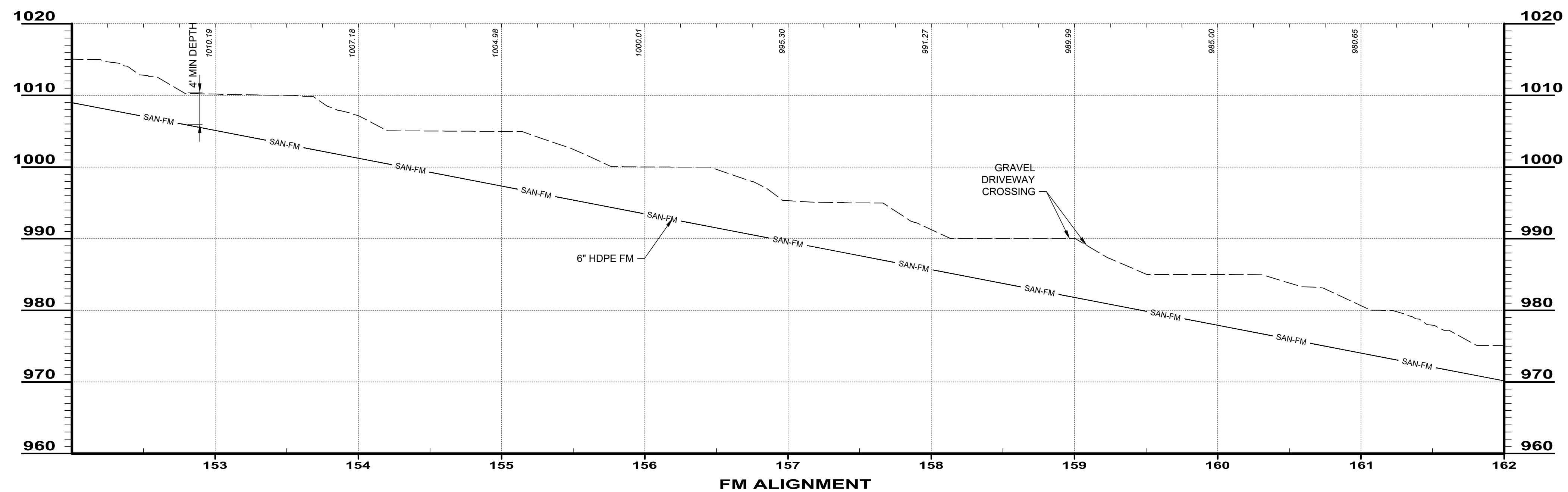
your trusted advisor  
engineers  
architects  
planners  
**consultants**

NO	REVISION	DATE

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 132+00 TO STA. 152+00**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-10
SHEET	29
OF	43



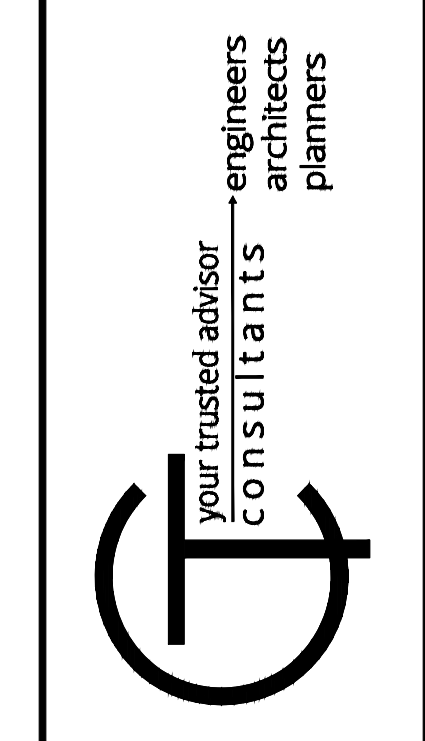
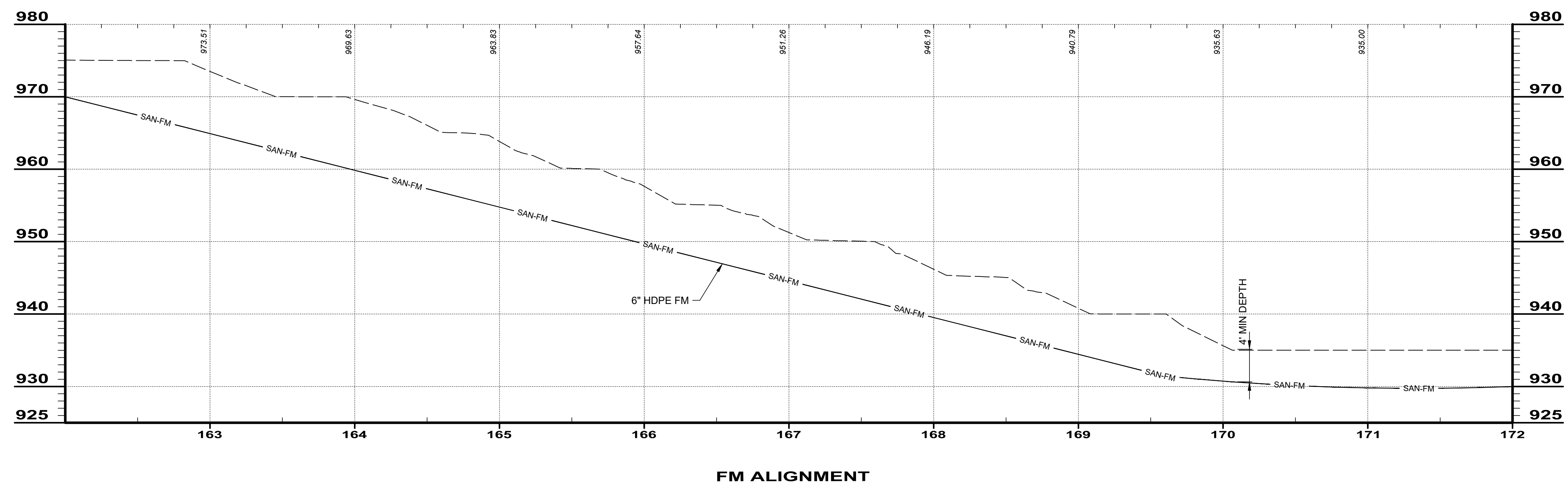
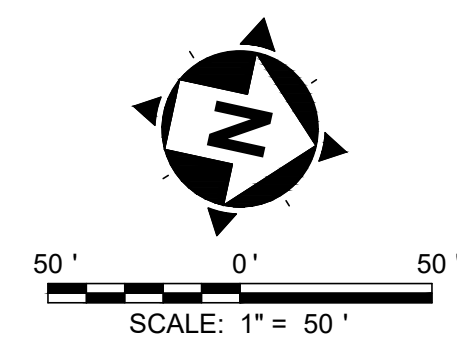


ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KERY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 152+00 TO STA. 162+00**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	FM-11
SHEET	OF
30	43

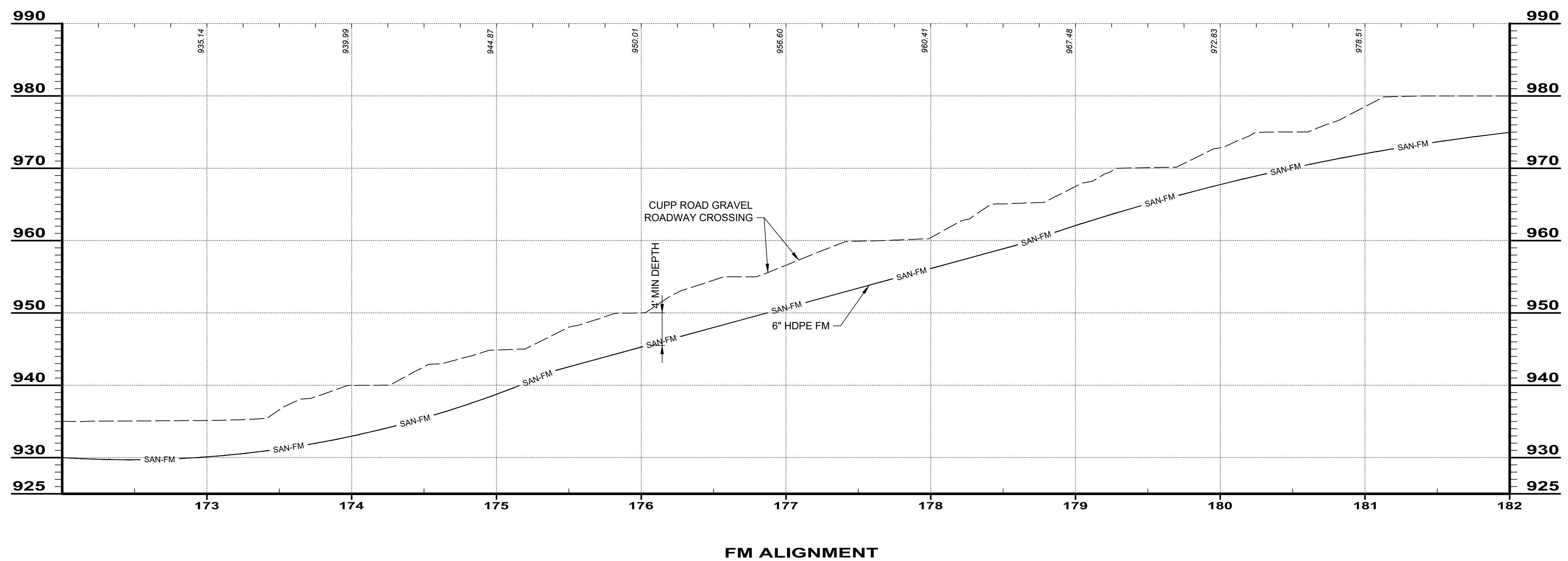
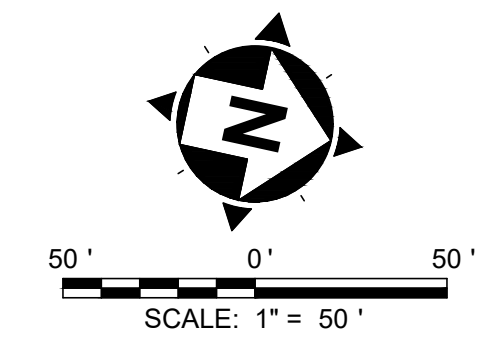




ISSUED FOR:	NO.	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KERY			

<b>ADAMS COUNTY ECONOMIC DEVELOPMENT</b>	
<b>CHERRY FORK SANITARY SEWER</b>	
ADAMS COUNTY, OHIO	
<b>S.R. 136 FORCE MAIN</b>	
<b>STA. 162+00 TO STA. 172+00</b>	
PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>FM-12</b>
SHEET	OF
<b>31</b>	<b>43</b>





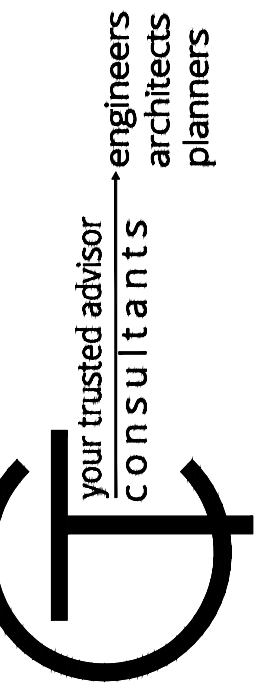
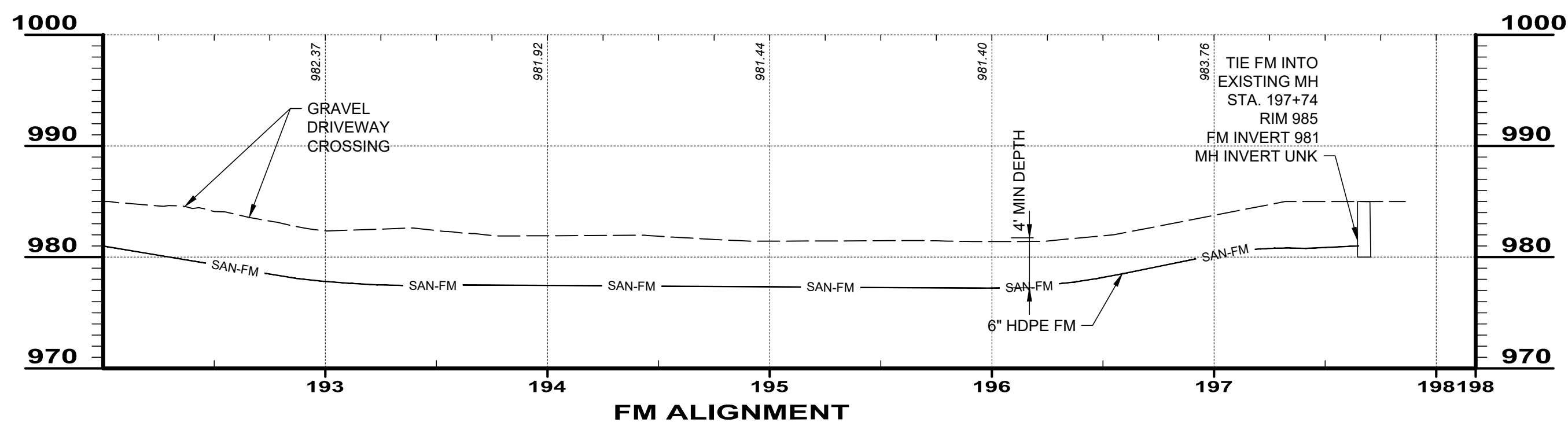
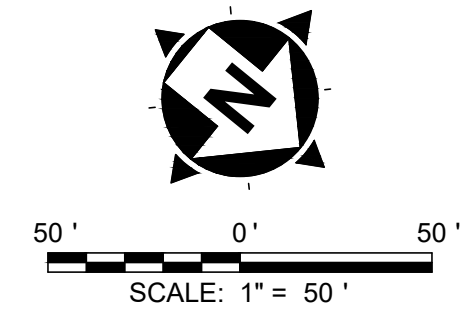
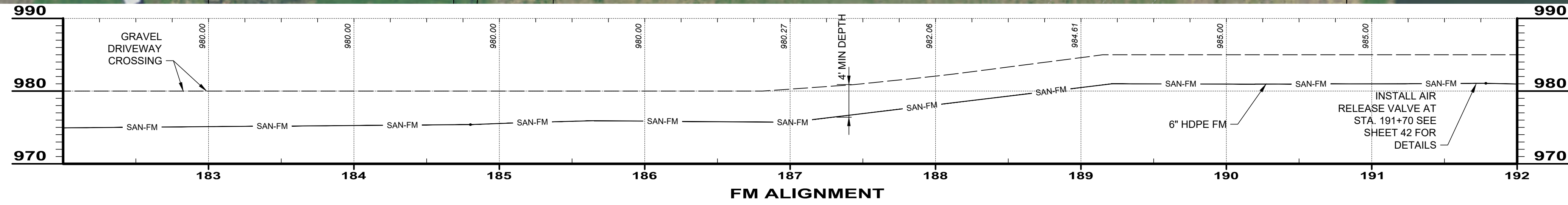
your trusted advisor  
**CONSULTANTS**  
 engineers  
 architects  
 planners

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023			
SCALE: AS SHOWN			
DESIGNED BY: JCOR			
DRAWN BY: JCOR			
CHECKED BY: KBRY			

**ADAMS COUNTY ECONOMIC DEVELOPMENT**  
**CHERRY FORK SANITARY SEWER**  
 ADAMS COUNTY, OHIO  
**S.R. 136 FORCE MAIN**  
**STA. 172+00 TO STA. 182+00**

PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>FM-13</b>	
SHEET <b>32</b>	OF <b>43</b>





NO.	REVISION	DATE

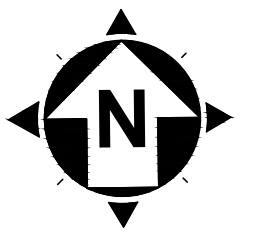
ISSUED FOR: ADAMS COUNTY ECONOMIC DEVELOPMENT  
 ISSUE DATE: OCTOBER 2023  
 SCALE: AS SHOWN  
 DESIGNED BY: JCOR  
 DRAWN BY: JCOR  
 CHECKED BY: KERY

PROJECT NO. 220432	
DISCIPLINE CIVIL	
SHEET NAME FM-14	
SHEET 33	OF 43





**SOUTH PUMP STATION SITE PLAN**  
SCALE: 1" = 10'



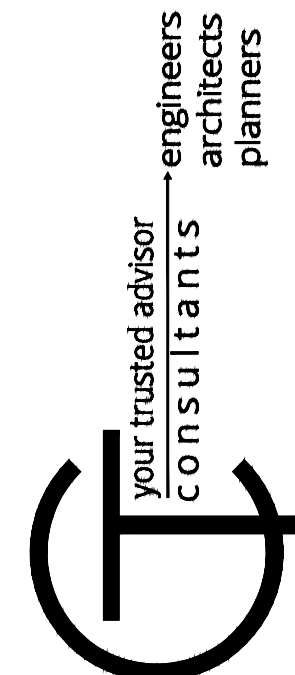
**CONSTRUCTION NOTES:**

1. CONTRACTOR TO EXCAVATE AND INSTALL THE PUMP STATION WET WELL AS PER THE ELEVATIONS AND DETAILS SHOWN ON SHEET 39.
2. ANY EXCESS EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF OFFSITE.
3. CONTRACTOR SHALL EXTEND AND CONNECT ALL INCOMING SEWER LINES AND DISCHARGE FORCE MAINS TO THE WET WELL OF THE PUMP STATION.
4. CONTRACTOR TO BACKFILL AND COMPACT AROUND THE WET WELL WITH NO. 57 STONE.
5. CONTRACTOR TO INSTALL A 6 INCH THICK CONCRETE SLAB (4000 PSI) AROUND THE PUMP STATION TO THE DIMENSIONS SHOWN ON THE DRAWINGS. THE CONCRETE SLAB SHALL INCLUDE NO. 4 REINFORCING STEEL BARS AT 12 INCHES ON CENTER IN BOTH DIRECTIONS. THE SLAB SHALL BE POURED ON 6 INCHES OF NO. 304 STONE.
6. CONTRACTOR SHALL INSTALL ALL MECHANICAL PORTIONS OF THE PUMP STATION AS PER THE SPECIFICATION PROVIDED IN THE BID BOOK.
7. THE MAIN INCOMING ELECTRICAL POWER FROM THE UTILITY COMPANY SHALL BE PAID BY THE CONTRACTOR TO THE UTILITY COMPANY THROUGH A LINE ITEM ALLOWANCE LISTED IN THE BID DOCUMENTS. THIS ALLOWANCE WILL INCLUDE ALL WORK FROM THE POWER COMPANY MAIN POLE TO THE ELECTRIC METER SHOWN ON SHEET 40.
8. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE ELECTRIC SERVICE TO EACH PUMP STATION AS SHOWN ON SHEET 40 OF THESE PLANS.
9. INSTALL TWENTY (20) FEET OF 12 INCH (DUAL WALL) HDPE STORM CULVERT PIPE WITH THE INVERT TO MATCH THE BOTTOM OF THE EXISTING DITCH LINE. PIPE BEDDING SHALL BE WITH NO. 57 STONE.
10. INSTALL A STONE ENTRANCE DRIVE TO THE ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWING. THE DRIVE SHALL BE CONSTRUCTED WITH A BASE OF 6 INCHES OF NO. 2 STONE AND TOPPED WITH 6 INCHES OF NO. 304 STONE.
11. CONTRACTOR TO GRADE THE SITE AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES OF QUALITY TOPSOIL TO ALL DISTURBED AREAS. CONTRACTOR SHALL FINISH GRADE, SEED AND STRAW ALL AREAS THAT HAVE BEEN DISTURBED AS A PART OF THE WORK.



**AREA PLAN**  
SCALE: 1" = 200'

<b>LIFT STATION &amp; SANITARY SEWER</b> CHERRY FORK, OH -		ISSUED FOR:	NO	REVISION	DATE
		ISSUE DATE: OCTOBER 2023	1	ADDED LS DESIGN INFORMATION	3/29/21
<b>PUMP STATION DETAILS</b>		SCALE:	AS SHOWN		
		DESIGNED BY:	NURA		
		DRAWN BY:	NURA		
		CHECKED BY:	KBRY		
PROJECT NO.		220432			
DISCIPLINE		CIVIL			
SHEET NAME		PS - SOUTH			
SHEET	OF				
34	43				



your trusted advisor  
consultants  
engineers  
architects  
planners





**SOUTH PUMP STATION SITE PLAN**  
SCALE: 1" = 10'



**CONSTRUCTION NOTES:**

1. CONTRACTOR TO EXCAVATE AND INSTALL THE PUMP STATION'S 8' WET WELL AS PER THE ELEVATIONS AND DETAILS SHOWN ON SHEET 39.
2. ANY EXCESS EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF OFFSITE.
3. CONTRACTOR SHALL EXTEND AND CONNECT ALL INCOMING SEWER LINES AND DISCHARGE FORCE MAINS TO THE WET WELL OF THE PUMP STATION.
4. CONTRACTOR TO BACKFILL AND COMPACT AROUND THE WET WELL WITH NO. 57 STONE.
5. CONTRACTOR TO INSTALL A 6 INCH THICK CONCRETE SLAB (4000 PSI) AROUND THE PUMP STATION TO THE DIMENSIONS SHOWN ON THE DRAWINGS. THE CONCRETE SLAB SHALL INCLUDE NO. 4 REINFORCING STEEL BARS AT 12 INCHES ON CENTER IN BOTH DIRECTIONS. THE SLAB SHALL BE POURED ON 6 INCHES OF NO. 304 STONE.
6. CONTRACTOR SHALL INSTALL ALL MECHANICAL PORTIONS OF THE PUMP STATION AS PER THE SPECIFICATION PROVIDED IN THE BID BOOK.
7. THE MAIN INCOMING ELECTRICAL POWER FROM THE UTILITY COMPANY SHALL BE PAID BY THE CONTRACTOR TO THE UTILITY COMPANY THROUGH A LINE ITEM ALLOWANCE LISTED IN THE BID DOCUMENTS. THIS ALLOWANCE WILL INCLUDE ALL WORK FROM THE POWER COMPANY MAIN POLE TO THE ELECTRIC METER SHOWN ON SHEET 40.
8. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE ELECTRIC SERVICE TO EACH PUMP STATION AS SHOWN ON SHEET 40 OF THESE PLANS.
9. INSTALL A STONE ENTRANCE DRIVE TO THE ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWING. THE DRIVE SHALL BE CONSTRUCTED WITH A BASE OF 6 INCHES OF NO. 2 STONE AND TOPPED WITH 6 INCHES OF NO. 304 STONE.
10. CONTRACTOR TO GRADE THE SITE AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES OF QUALITY TOPSOIL TO ALL DISTURBED AREAS. CONTRACTOR SHALL FINISH GRADE, SEED AND STRAW ALL AREAS THAT HAVE BEEN DISTURBED AS A PART OF THE WORK.
11. EXISTING ELECTRICAL POLE TO REMAIN.



**AREA PLAN**  
SCALE: 1" = 200'

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023	1	ADDED LS DESIGN INFORMATION	3/29/21
SCALE: AS SHOWN			
DESIGNED BY: NUBA			
DRAWN BY: NUBA			
CHECKED BY: KERY			

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -  
**PUMP STATION DETAILS**

PROJECT NO. <b>220432</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>PS - SOUTH MAIN</b>	
SHEET <b>35</b>	OF <b>43</b>

your trusted advisor  
**consultants**  
engineers  
architects  
planners





**MIDDLE PUMP STATION SITE PLAN**  
SCALE: 1" = 10'

**CONSTRUCTION NOTES:**

1. CONTRACTOR TO EXCAVATE AND INSTALL THE PUMP STATION WET WELL AS PER THE ELEVATIONS AND DETAILS SHOWN ON SHEET 39.
2. ANY EXCESS EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF OFFSITE.
3. CONTRACTOR SHALL EXTEND AND CONNECT ALL INCOMING SEWER LINES AND DISCHARGE FORCE MAINS TO THE WET WELL OF THE PUMP STATION.
4. CONTRACTOR TO BACKFILL AND COMPACT AROUND THE WET WELL WITH NO. 57 STONE.
5. CONTRACTOR TO INSTALL A 6 INCH THICK CONCRETE SLAB (4000 PSI) AROUND THE PUMP STATION TO THE DIMENSIONS SHOWN ON THE DRAWINGS. THE CONCRETE SLAB SHALL INCLUDE NO. 4 REINFORCING STEEL BARS AT 12 INCHES ON CENTER IN BOTH DIRECTIONS. THE SLAB SHALL BE POURED ON 6 INCHES OF NO. 304 STONE.
6. CONTRACTOR SHALL INSTALL ALL MECHANICAL PORTIONS OF THE PUMP STATION AS PER THE SPECIFICATION PROVIDED IN THE BID BOOK.
7. THE MAIN INCOMING ELECTRICAL POWER FROM THE UTILITY COMPANY SHALL BE PAID BY THE CONTRACTOR TO THE UTILITY COMPANY THROUGH A LINE ITEM ALLOWANCE LISTED IN THE BID DOCUMENTS. THIS ALLOWANCE WILL INCLUDE ALL WORK FROM THE POWER COMPANY MAIN POLE TO THE ELECTRIC METER SHOWN ON SHEET 40.
8. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE ELECTRIC SERVICE TO EACH PUMP STATION AS SHOWN ON SHEET 40 OF THESE PLANS.
9. INSTALL TWENTY (20) FEET OF 12 INCH (DUAL WALL) HDPE STORM CULVERT PIPE WITH THE INVERT TO MATCH THE BOTTOM OF THE EXISTING DITCH LINE. PIPE BEDDING SHALL BE WITH NO. 57 STONE.
10. INSTALL A STONE ENTRANCE DRIVE TO THE ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWING. THE DRIVE SHALL BE CONSTRUCTED WITH A BASE OF 6 INCHES OF NO. 2 STONE AND TOPPED WITH 6 INCHES OF NO. 304 STONE.
11. CONTRACTOR TO GRADE THE SITE AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES OF QUALITY TOPSOIL TO ALL DISTURBED AREAS. CONTRACTOR SHALL FINISH GRADE, SEED AND STRAW ALL AREAS THAT HAVE BEEN DISTURBED AS A PART OF THE WORK.

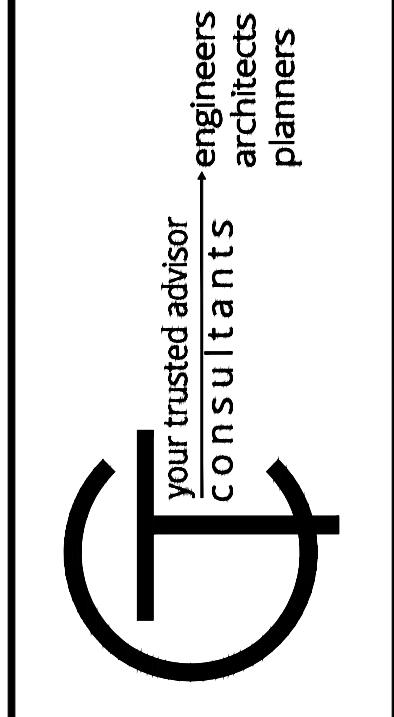


**AREA PLAN**  
SCALE: 1" = 150'

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023	1	ADDED LS DESIGN INFORMATION	3/29/21
SCALE: AS SHOWN			
DESIGNED BY: NURA			
DRAWN BY: NURA			
CHECKED BY: KERRY			

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -  
**PUMP STATION DETAILS**

PROJECT NO.	
220432	
DISCIPLINE	
CIVIL	
SHEET NAME	
PS - MIDDLE	
SHEET	OF
36	43





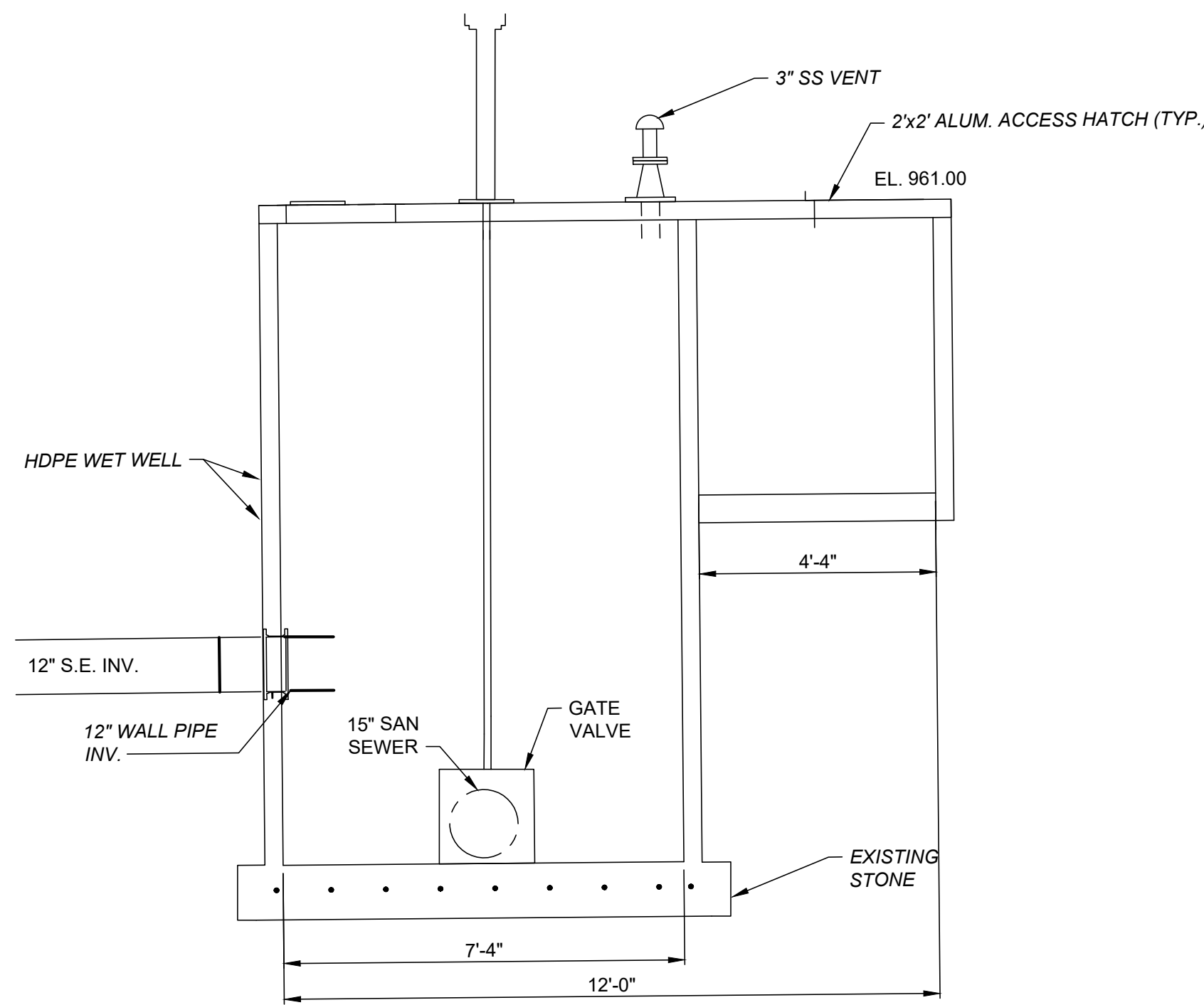




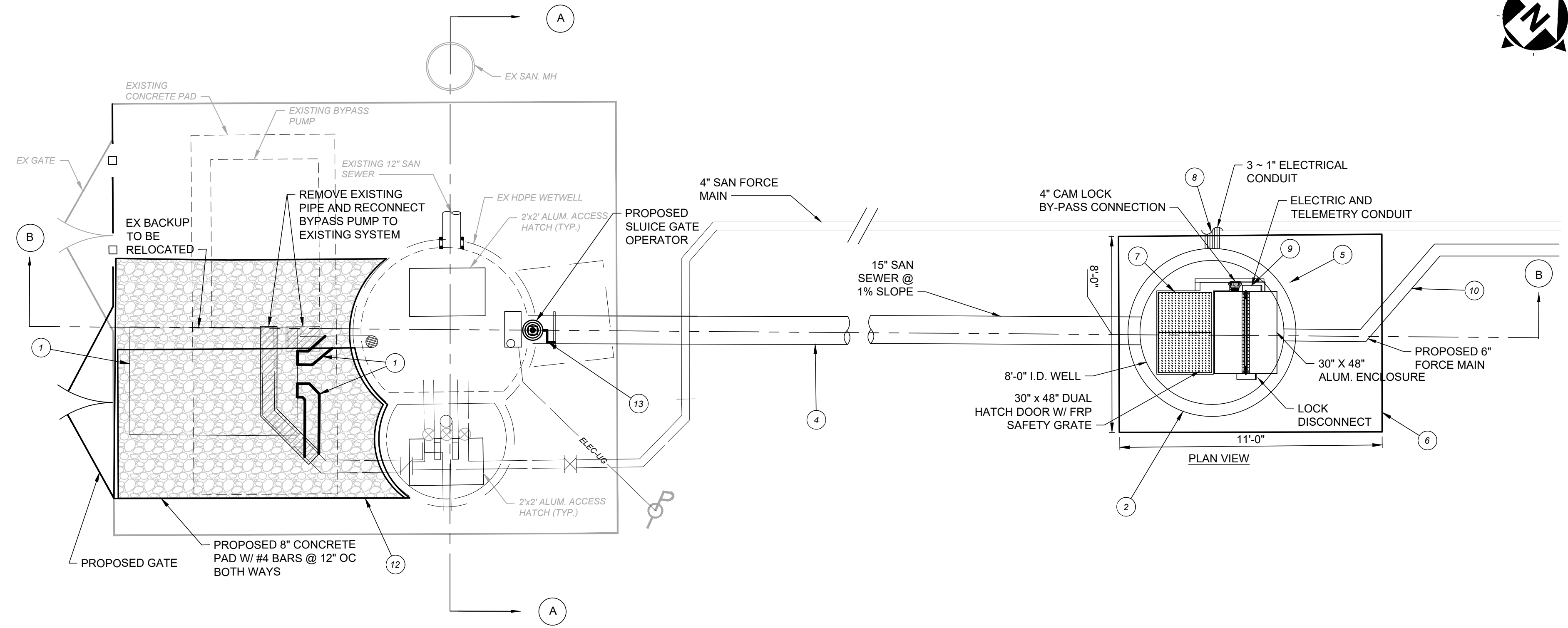


**WINCHESTER PUMP STATION SITE PLAN**

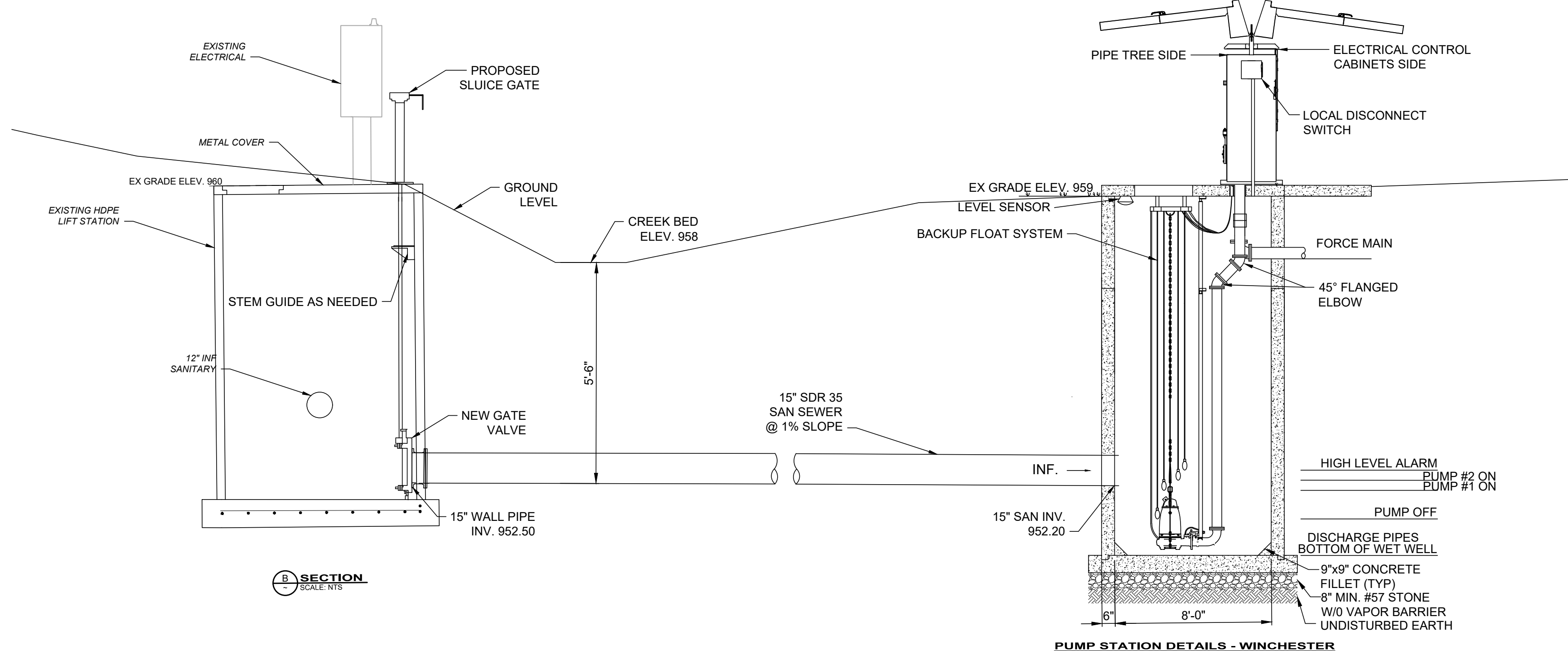
SCALE: 1" = 20'



**A SECTION**  
SCALE: 1/2" = 1'-0"



**PUMP STATION - WINCHESTER**  
NOT TO SCALE

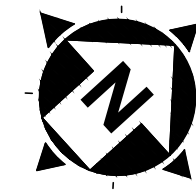


**B SECTION**  
SCALE: NTS

**PUMP STATION DETAILS - WINCHESTER**  
NOT TO SCALE

**CONSTRUCTION NOTES:**

1. CONTRACTOR TO MAINTAIN THE OPERATION OF THE EXISTING PUMP STATION UNTIL THE NEW PUMP STATION IS OPERATIONAL. CONTRACTOR MAY USE THE EXISTING DIESEL POWERED BYPASS PUMP TO MAINTAIN OPERATION AS APPROVED BY THE VILLAGE OF WINCHESTER. THE COST OF THE DIESEL FUEL WILL BE PAID BY THE CONTRACTOR. CONTRACTOR TO RELOCATE BYPASS PUMP TO SHOWN LOCATION RECONNECTING TO EXISTING SYSTEM.
2. CONTRACTOR TO EXCAVATE AND INSTALL THE NEW PUMP STATION WET WELL AS PER THE ELEVATIONS AND DETAILS SHOWN ON SHEET 37.
3. ANY EXCESS EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF OFFSITE.
4. CONTRACTOR SHALL INSTALL AND CONNECT THE NEW 15 INCH SANITARY SEWER LINE TO THE WET WELL OF THE NEW PUMP STATION.
5. CONTRACTOR TO BACKFILL AND COMPACT AROUND THE WET WELL WITH NO. 57 STONE.
6. CONTRACTOR TO INSTALL A PRECAST CONCRETE TOP ON THE NEW PUMP STATION TO THE DIMENSIONS SHOWN ON THE PLAN SHEET.
7. CONTRACTOR SHALL INSTALL ALL MECHANICAL PORTIONS OF THE PUMP STATION AS PER THE SPECIFICATION PROVIDED IN THE BID BOOK.
8. THE MAIN INCOMING ELECTRICAL POWER FROM THE UTILITY COMPANY SHALL BE PAID BY THE CONTRACTOR TO THE UTILITY COMPANY THROUGH A LINE ITEM ALLOWANCE LISTED IN THE BID DOCUMENTS. THIS ALLOWANCE WILL INCLUDE ALL WORK FROM THE POWER COMPANY MAIN POLE TO THE ELECTRIC METER SHOWN ON SHEET 39.
9. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE ELECTRIC SERVICE TO THE NEW PUMP STATION AS SHOWN ON SHEET 40 OF THESE PLANS.
10. CONTRACTOR TO INSTALL A NEW 6 INCH HDPE 11 FORCE MAIN FROM THE NEW PUMP STATION TO THE EXISTING MANHOLE IN THE STREET. THE EXISTING 4 INCH FORCE MAIN IS TO REMAIN.
11. INSTALL A STONE ENTRANCE DRIVE TO THE ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWING. THE DRIVE SHALL BE CONSTRUCTED WITH A BASE OF 6 INCHES OF NO. 2 STONE AND TOPPED WITH 6 INCHES OF NO. 304 STONE.
12. CONTRACTOR TO INSTALL A 6 INCH THICK CONCRETE SLAB (4000 PSI) AROUND THE EXISTING PUMP STATION TO THE DIMENSIONS SHOWN ON THE DRAWINGS. THE CONCRETE SLAB SHALL INCLUDE NO. 4 REINFORCING STEEL BARS AT 12 INCHES ON CENTER IN BOTH DIRECTIONS. THE SLAB SHALL BE POURED ON 6 INCHES OF NO. 304 STONE.
13. CONTRACTOR SHALL INSTALL A NEW (MANUFACTURER) SLUICE GATE IN THE EXISTING WET WELL PUMP STATION ON THE NEW 15 INCH SANITARY SEWER.
14. CONTRACTOR TO GRADE THE SITE AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES OF QUALITY TOPSOIL TO ALL DISTURBED AREAS. CONTRACTOR SHALL FINISH GRADE, SEED, AND



your trusted advisor  
consultants

engineers  
architects  
planners

ISSUED FOR:	NO	REVISION	DATE
ISSUE DATE: OCTOBER 2023	1	ADDED LS DESIGN INFORMATION	3/29/21
SCALE: AS SHOWN			
DESIGNED BY: NURA			
DRAWN BY: NURA			
CHECKED BY: KERRY			

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -

**PUMP STATION DETAILS**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PS - WINCHESTER
SHEET	OF
38	43



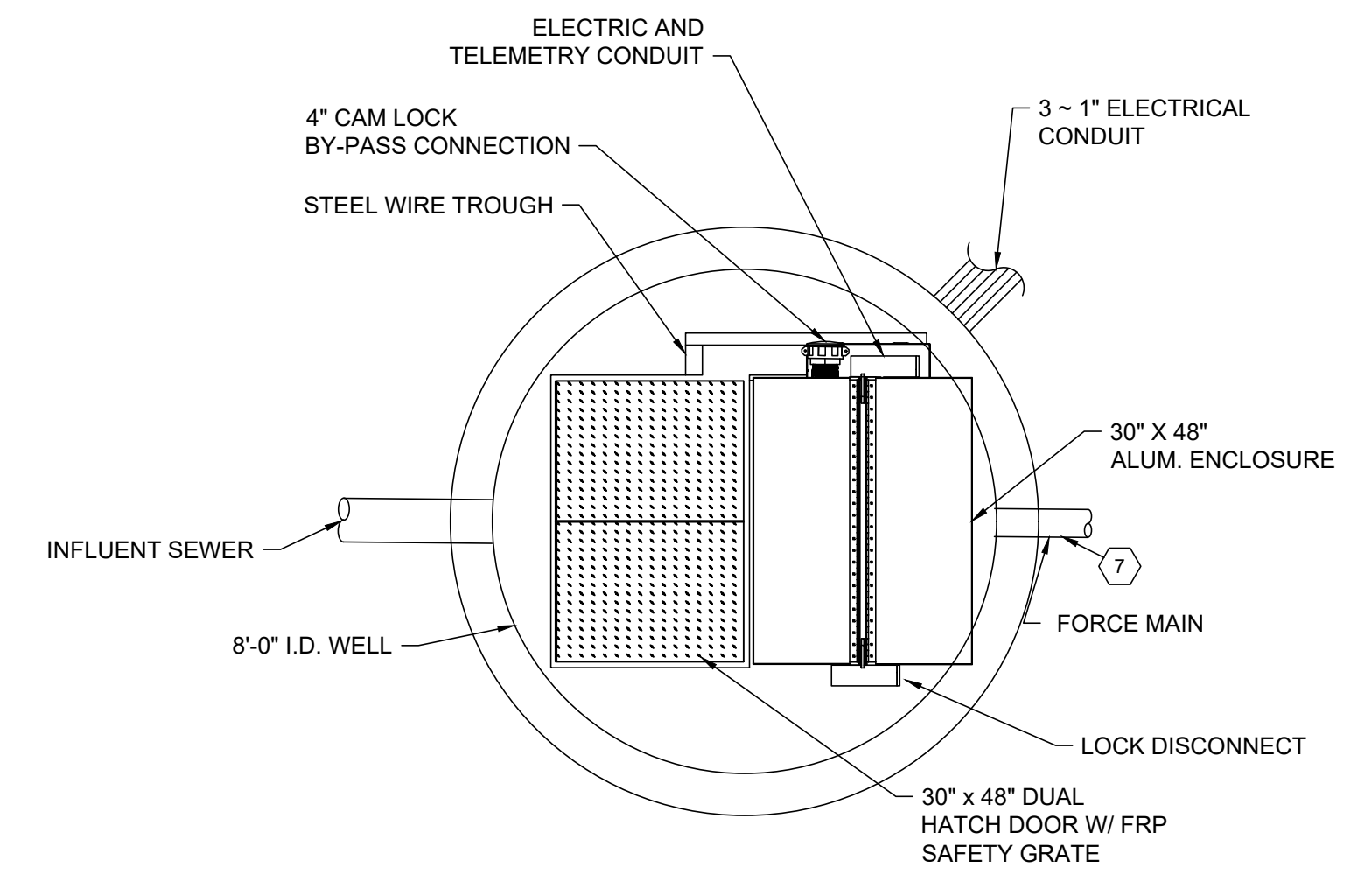


**CODED NOTES:**

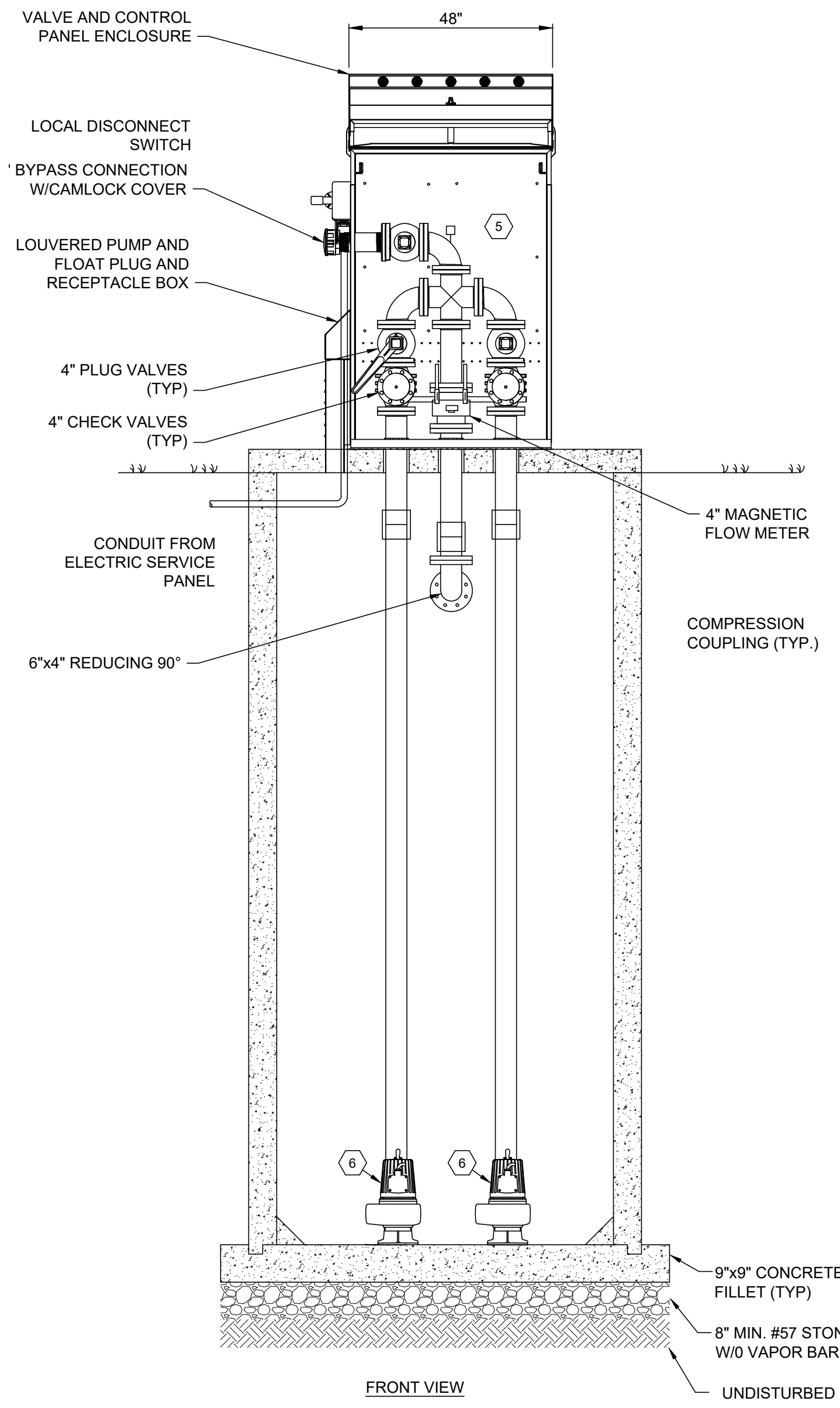
- ① SEWER PIPE SHALL BE SECURED THROUGH WET WELL WALL BY APPROVED SEAL BOOT GASKET MEETING ASTM C923, TYP
- ② STAINLESS STEEL LIFTING CHAIN WITH 2" DIA. RING EVERY 10'
- ③ STAINLESS STEEL GUIDE RAILS W/ SS CONNECTORS & SUPPORTS
- ④ COAT INTERIOR SURFACE OF WET WELL EXCLUDING BOTTOM OF TOP SLAB WITH WASSER MC-TAR, OR EQUAL
- ⑤ HOIST NOT SHOWN. EQUIPMENT TO BE INTEGRAL WITHIN ENCLOSURE.
- ⑥ SEE LIFT STATION CHARTS BELOW
- ⑦ SOUTH LS: 2" FORCE MAIN  
SOUTH MAIN LS: 4" FORCE MAIN  
MIDDLE LS: 6" FORCE MAIN  
NORTH LS: 6" FORCE MAIN  
WINCHESTER LS: 6" FORCE MAIN

**CONSTRUCTION NOTES:**

- 1. CONTRACTOR IS RESPONSIBLE TO MAINTAIN FLOW INTO THE EXISTING WET WELL AT ALL TIMES. COST TO MAINTAIN THE FLOW WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. CONTRACTOR TO PROVIDE ALL NEW WIRING FROM ELECTRICAL SERVICE PANEL TO PUMP STATION ENCLOSURE.

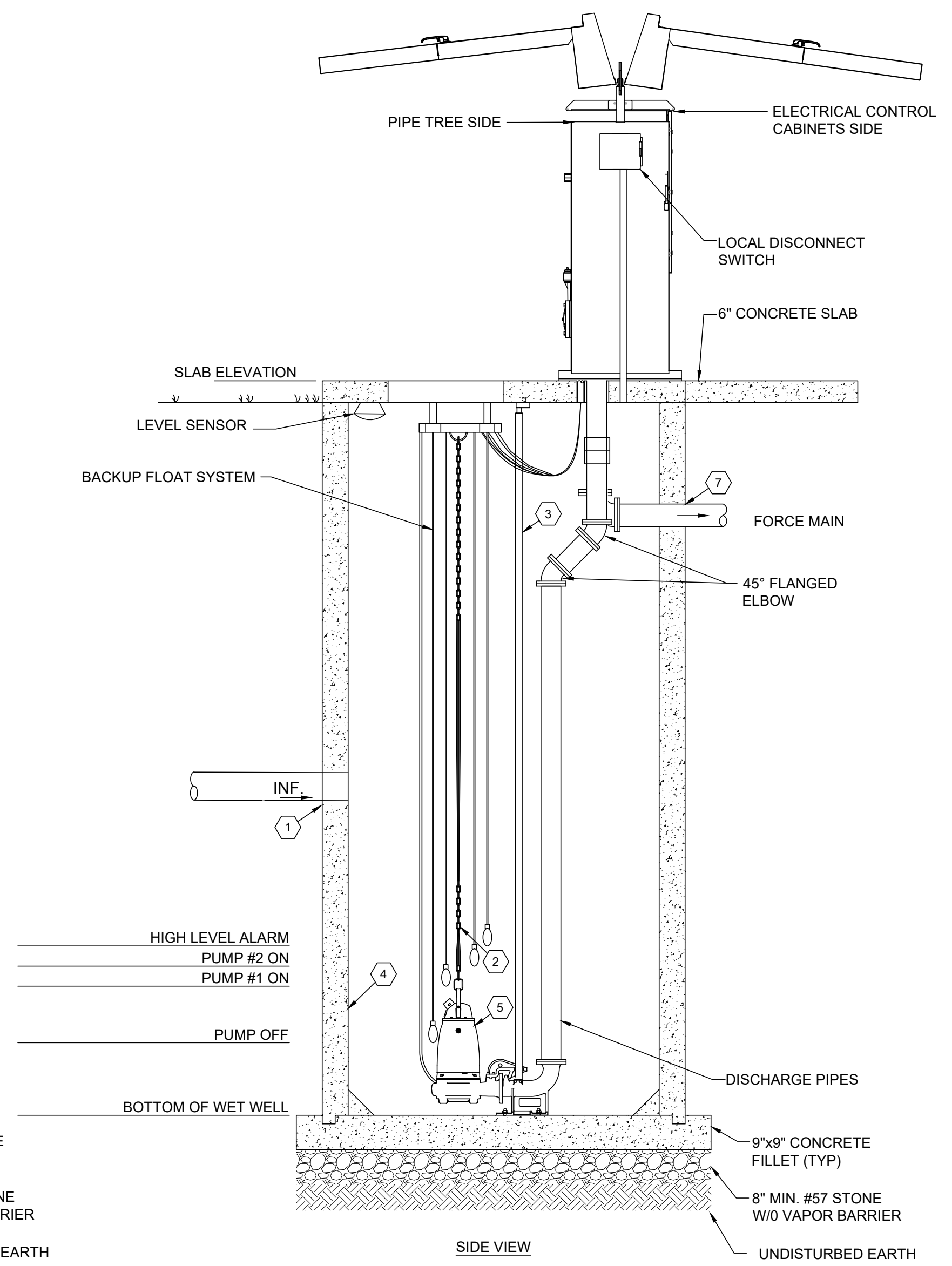


PLAN VIEW



FRONT VIEW

**PUMP STATION DETAIL**  
NOT TO SCALE



SIDE VIEW

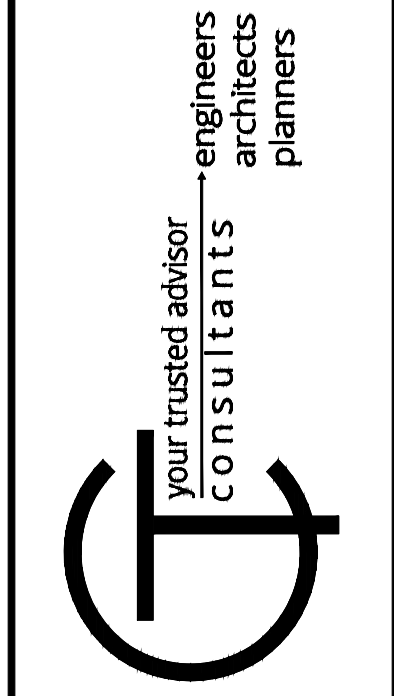
SOUTH LIFT STATION ELEVATION		
HIGH LEVEL ALARM: 844.04	FINISHED GRADE: 859.00	GRINDER SUBMERSIBLE
LAG PUMP ON: 843.54	EXISTING GRADE: 859.00	15 GPM @ 22.2 FT TDH
LEAD PUMP ON: 842.54	FM OUT: 854.00	30 GPM @ 29.2 FT TDH
PUMPS OFF: 841.54	INF. INVERT: 844.67	480 V, 3Ø, 2 HP
BOTTOM OF WETWELL: 838.54		

SOUTH MAIN LIFT STATION ELEVATION		
HIGH LEVEL ALARM: 851.00	FINISHED GRADE: 861.74	GRINDER SUBMERSIBLE
LAG PUMP ON: 850.50	EXISTING GRADE: 861.74	40 GPM @ 72 FT TDH
LEAD PUMP ON: 849.50	FM OUT: 857.50	480 V, 3Ø, 5 HP
PUMPS OFF: 848.50	INF. INVERT: 8" N: 852.71	
	6" SW: 851.50	
	8" E: 854.69	
BOTTOM OF WETWELL: 845.24		

MIDDLE LIFT STATION ELEVATION		
HIGH LEVEL ALARM: 897.61	FINISHED GRADE: 907.61	GRINDER SUBMERSIBLE
LAG PUMP ON: 897.11	EXISTING GRADE: 907.61	90 GPM @ 77 FT TDH
LEAD PUMP ON: 896.51	FM OUT: 903.50	480 V, 3Ø, 5 HP
PUMPS OFF: 895.11	INF. INVERT: 898.11	
BOTTOM OF WETWELL: 892.11		

NORTH LIFT STATION ELEVATION		
HIGH LEVEL ALARM: 954.50	FINISHED GRADE: 961.40	GRINDER SUBMERSIBLE
LAG PUMP ON: 954.00	EXISTING GRADE: 961.40	80 GPM @ 108 FT TDH
LEAD PUMP ON: 953.00	FM OUT: 956.00	480 V, 3Ø, 7.5 HP
PUMPS OFF: 952.00	INF. INVERT: 956.00	
BOTTOM OF WETWELL: 948.90		

WINCHESTER LIFT STATION ELEVATION		
HIGH LEVEL ALARM: 952.00	FINISHED GRADE: 959.00	CHOPPER SUBMERSIBLE
LAG PUMP ON: 951.00	EXISTING GRADE: 960.00	350 GPM @ 65 FT TDH
LEAD PUMP ON: 950.00	FM OUT: 957	480 V, 3Ø, 20 HP
PUMPS OFF: 949.00	INF. INVERT: 952.20	
BOTTOM OF WETWELL: 946.00		



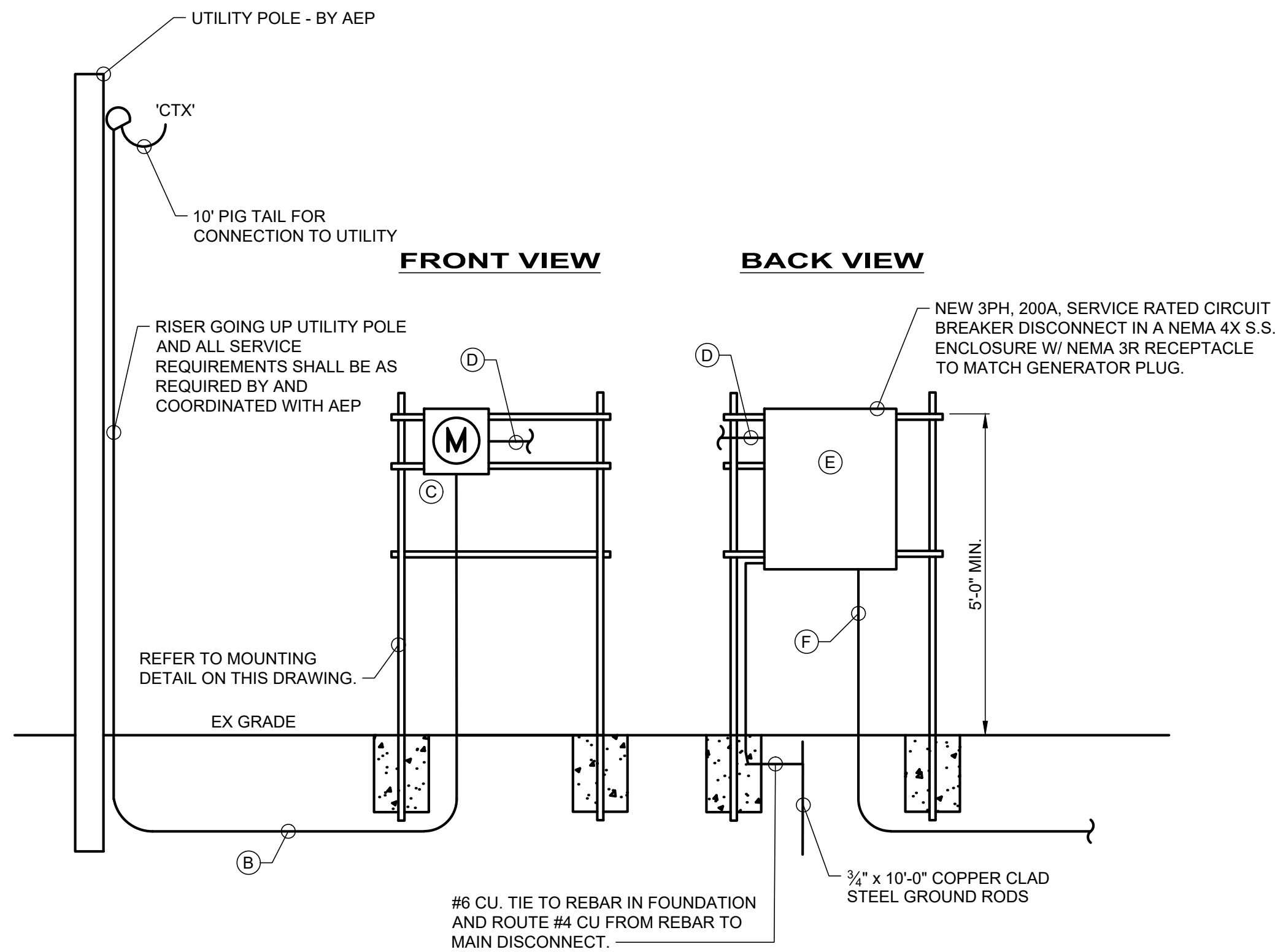
ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	OCTOBER 2023	AS SHOWN	NURA	NURA	KERY

NO	REVISION	DATE
1	ADDED LS DESIGN INFORMATION	3/29/21

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -  
**PUMP STATION DETAILS**

PROJECT NO.	220432
DISCIPLINE	CIVIL
SHEET NAME	PS - MECHANICAL
SHEET	OF
39	43

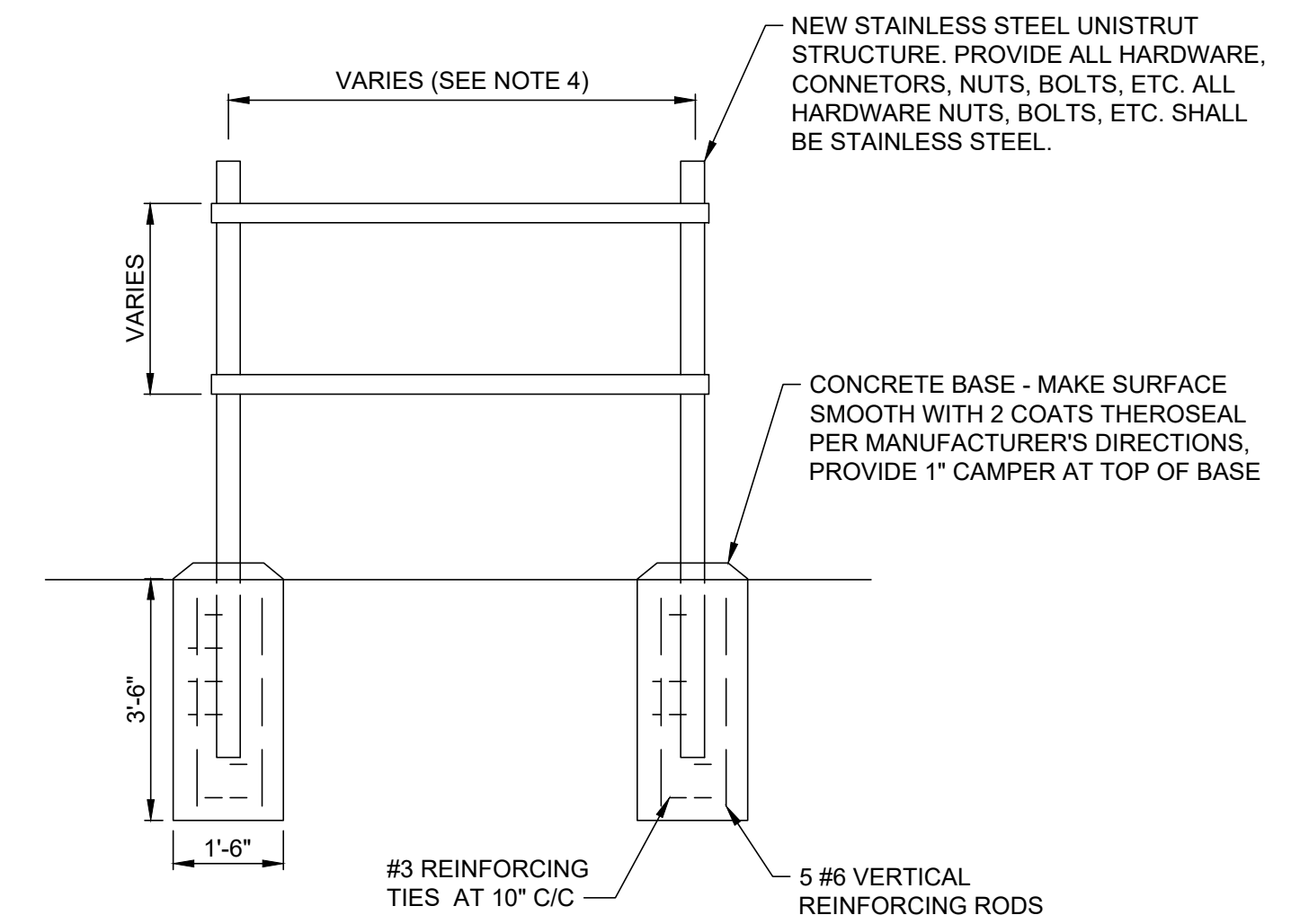




**CHERRY FORK LIFT STATION**  
**480V, 3PH ONE LINE DIAGRAM**  
 NOT TO SCALE

**GENERAL NOTES:**

- CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS. OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED INSPECTIONS.
- COMPLY WITH ALL CITY STANDARDS, UTILITY CO. REQUIREMENTS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE CONTRACT AS SPECIFIED BY ENGINEER, PROJECT MANAGER OR OWNER.
- CONTACT OUPS, VISIT SITE, AND VERIFY EXISTING CONDITIONS AND TAKE INTO CONSIDERATION IN BID.
- SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS. INSTALL PER MANUFACTURERS AND PROPERLY ADJUST AND START UP.
- DRAWINGS ARE DIAGRAMMATIC. FIELD VERIFY EXISTING CONDITIONS AND CONNECTION POINTS PRIOR TO STARTING WORK. FULLY COORDINATE WORK WITH OTHER TRADES. APPROVED SHOP DRAWINGS ARE TO BE CONSIDERED AS THE MEANS AND METHODS OF INSTALLATION.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, CONSTRUCTION SEQUENCES, AND WORKERS SAFETY.
- PERFORM ALL DEMOLITION WORK REQUIRED FOR PROJECT AND DISPOSE OF DEMOLITION MATERIALS IN CODE APPROVED MANNER.
- ALL CUTTING, TRENCHING, BACKFILLING AND PATCHING OF EXISTING SURFACES INCIDENTAL TO THIS WORK SHALL BE PERFORMED BY THIS CONTRACTOR. CUTTING AND PATCHING SHALL BE PERFORMED IN COMPLIANCE WITH THE PROJECT REQUIREMENTS. ALL BELOW GRADE CONDUITS SHALL BE 24" BELOW GRADE.
- ALL ELECTRICAL EQUIPMENT AND WIRING AND OTHER ELECTRICALLY CONDUCTIVE MATERIAL, LIKELY TO BECOME ENERGIZED SHALL BE BONDED AND GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- WIRES SHALL BE:
  - #12 AWS AND #10 SOLID OR STRANDED CONDUCTOR COPPER, 600V, TYPE THWN/THHN, WHHM OR THW (75/90 DEG. C)
  - #8 AWG TO AND INCLUDING #600 Kcmil AWG, STRANDED CONDUCTOR, 600V, TYPE THWN/THHN, WHHM OR THW (75/90 DEG. C) COLOR CODE ALL WIRES PER N.E.C. GROUND CONDUCTORS SHALL BE GREEN. ALL WIRING SHALL BE IN CONDUIT, RIGID GALVANIZED STEEL ABOVE GRADE AND SCHEDULE 40 PVC BELOW GRADE.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED FOR THE PURPOSE AND ENVIRONMENT AND SHALL BE NOTED AS SUCH.
- 75 DEGREE C CONDUCTOR RATINGS HAVE BEEN APPLIED UP TO 100 AMPS. ALL EQUIPMENT TERMINATION PROVISIONS SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75 DEGREE C CONNECTIONS PER N.E.C. 110-14C
- ALL EXISTING CIRCUITS REQUIRED TO REMAIN ACTIVE SHALL BE REWORKED OR MAINTAINED AS REQUIRED.
- ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRING SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS CLEARLY CALLED OUT AS EXISTING. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS CALLED OUT TO BE REUSED SHALL BE INSPECTED IN THE FIELD BY THE ELECTRICAL CONTRACTOR AND THE CONSTRUCTION MANAGER TO DETERMINE ITS CONDITION PRIOR TO STARTING ANY WORK. PROVIDE DOCUMENTATION TO OWNER INDICATING CONDITION OF THE EXISTING EQUIPMENT, AND REUSE EXISTING EQUIPMENT TO ALL PARTIES AGREE THE CONDITION IS ACCEPTABLE. ALL EXISTING EQUIPMENT DETERMINED TO BE UNUSABLE SHALL BE REPLACED WITH LIKE KIND AS DIRECTED BY THE OWNER. ANY OF THE OWNERS EQUIPMENT DETERMINED TO BE REUSED THAT IS DAMAGED BY ANY CONTRACTOR DURING SWITCHOVER SHALL BE REPLACED BY THAT CONTRACTOR. ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER (NOT THE CONTRACTOR) AND SHALL BE TREATED ACCORDINGLY.
- ALL CABLES ARE TO BE CLEARLY MARKED WITH BRADY TYPE LABELS AND RECORD DRAWINGS SHALL INDICATED THE INDIVIDUAL MARKINGS.



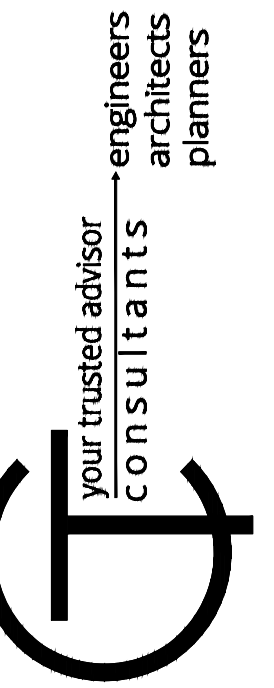
**GENERAL DETAIL NOTES:**

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A STAINLESS STEEL UNISTRUT STRUCTURE W/ ALL S.S. HARDWARE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SYSTEM SIZED BASED ON THE APPROVED SHOP DRAWINGS AND AS NEEDED TO INSTALL ACTUAL EQUIPMENT PROVIDED.
- BASE DETAIL IS TYPICAL FOR STANDARD SOIL BEARING. WHERE NON-STANDARD SOIL OCCURS, CONSULT CIVIL ENGINEER FOR BASE DESIGN PRIOR TO INSTALLATION.
- THE WIDTH OF THE RACK WILL VARY BASED ON SERVICE SIZES. THE OWNER WOULD LIKE THIS TO BE AS SHORT AS POSSIBLE. PROVIDE CHANNEL ON BOTH SIDES SO THAT THE EQUIPMENT CAN BE MOUNTED ON THE FRONT AND ON THE BACK. ALL PANELS AND DEVICES SHALL BE A MINIMUM OF 18 INCHES ABOVE GRADE.

**OUTDOOR SERVICE MOUNTING DETAIL**  
 NOT TO SCALE

**ONE-LINE SCHEDULE**

LS NAME	(A) VOLTS / PH / HP	(B) WIRE AND CONDUIT SIZE	(C) METER SOCKET RATING	(D) WIRE AND CONDUIT SIZE	(E) SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH/FUSE	(F) WIRE AND CONDUIT SIZE	(G) WIRE AND CONDUIT SIZE	MIN. CIRCUIT AMPS
SOUTH LS	480V / 3 PH / 2 @ 2 HP	PER ADAMS COUNTY ELECTRIC	PER ADAMS COUNTY ELECTRIC	4#3/0, 2"C	200 AMP / 125 AMP	4#3/0, 2"C	N/A	-
SOUTH MAIN LS	480V / 3PH / 2 @ 5 HP	PER ADAMS COUNTY ELECTRIC	PER ADAMS COUNTY ELECTRIC	4#3/0, 2"C	200 AMP / 125 AMP	4#3/0, 2"C	N/A	-
MIDDLE LS	480V / 3 PH / 2 @ 5 HP	PER ADAMS COUNTY ELECTRIC	PER ADAMS COUNTY ELECTRIC	4#3/0, 2"C	200 AMP / 125 AMP	4#3/0, 2"C	N/A	-
NORTH LS	120V / 1 PH / 2 @ 7.5 HP	PER ADAMS COUNTY ELECTRIC	PER ADAMS COUNTY ELECTRIC	4#1/0, 2"C	200 AMP / 125 AMP	4#3/0, 2"C	N/A	-
WINCHESTER LS	480V / 3 PH / 2 @ 20 HP	PER AEP	PER AEP	4#3/0, 2"C	200 AMP / 125 AMP	4#3/0, 2"C	N/A	-



ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	OCTOBER 2023	AS SHOWN	NURA	NURA	KERY

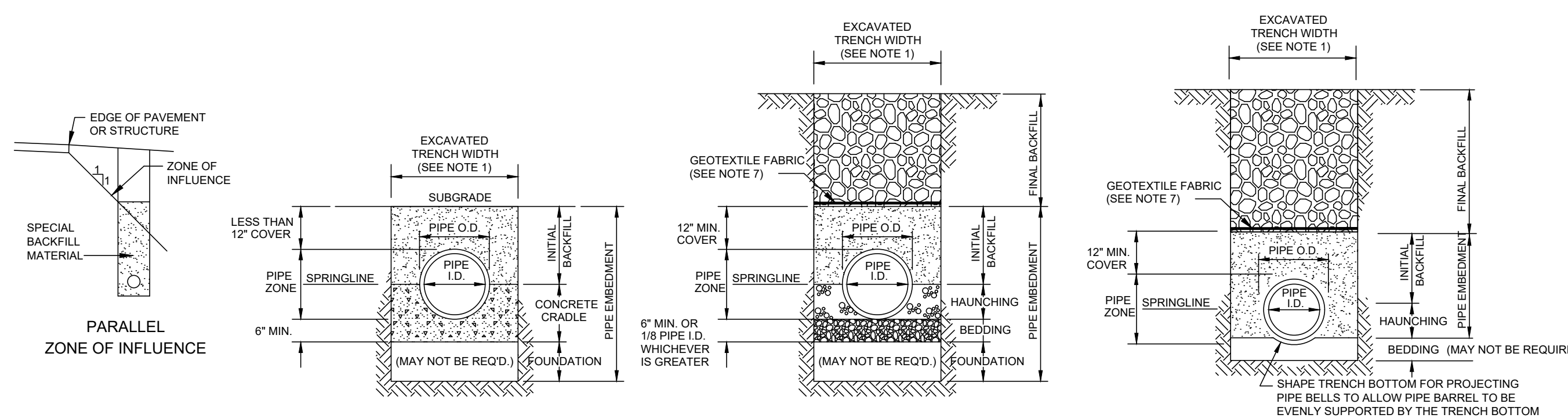
  

NO	REVISION	DATE
1	ADDED LS DESIGN INFORMATION	3/29/21

**LIFT STATION & SANITARY SEWER**  
 CHERRY FORK, OH -  
**LS ELECTRICAL**

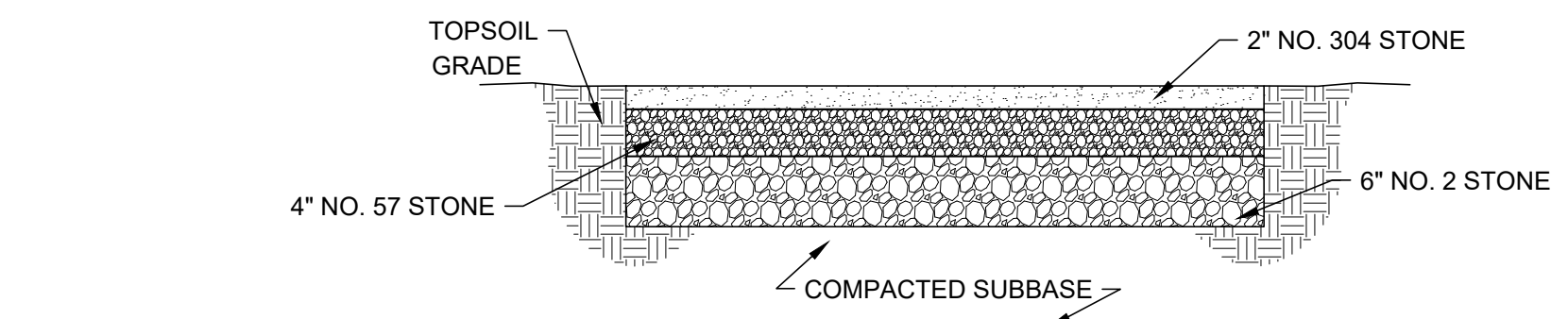
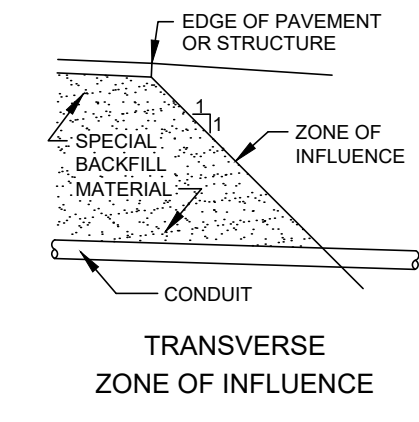
PROJECT NO.	<b>220432</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>PS ELECTRIC</b>
SHEET	OF
<b>40</b>	<b>43</b>



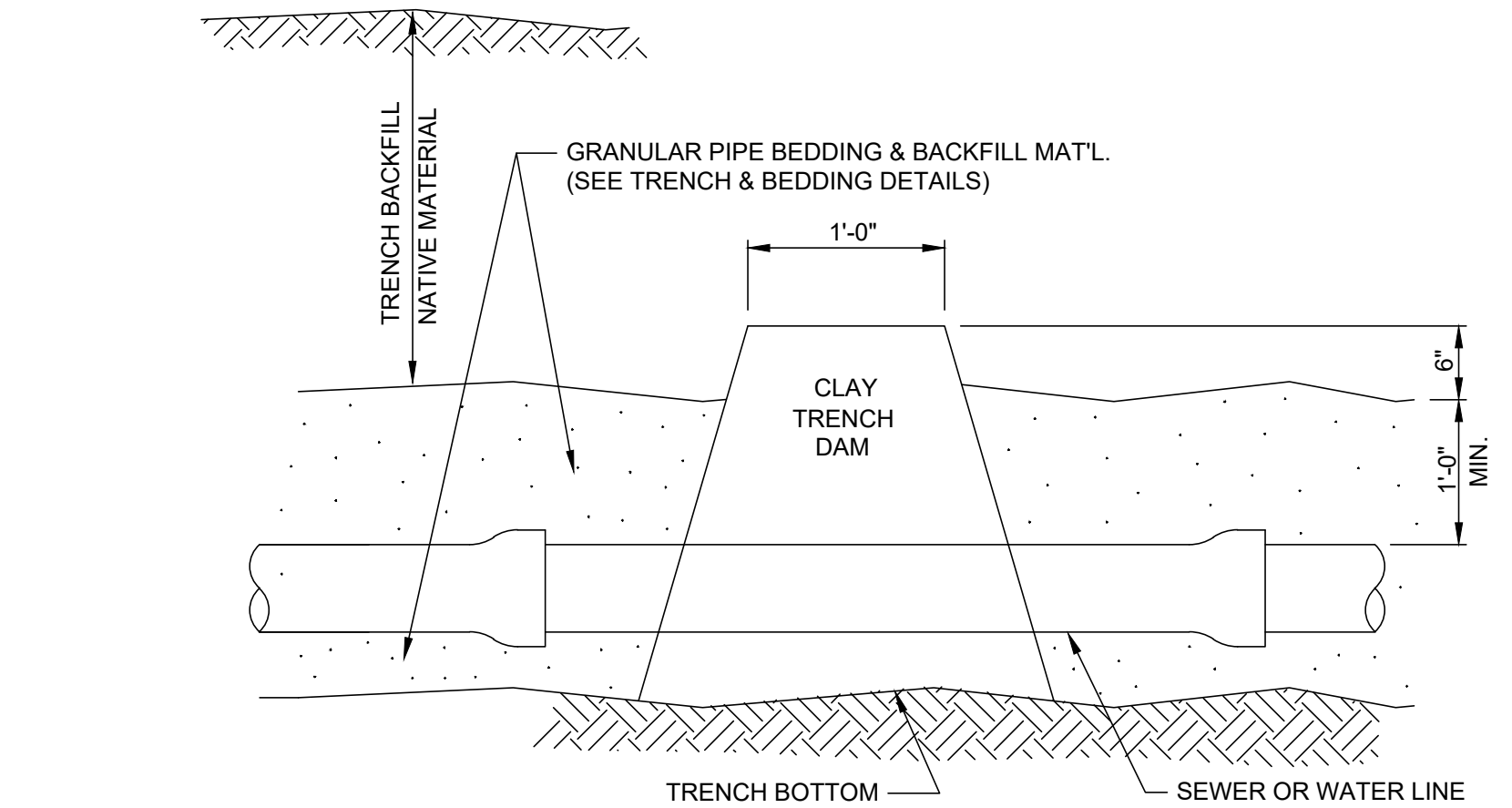


- CLASS 'A' PIPE EMBEDMENT**
- CLASS 'B' PIPE EMBEDMENT**
- CLASS 'C' PIPE EMBEDMENT**
- NOTES:**
1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
  2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
  3. PIPE EMBEDMENT: CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
  4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
  5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 310000CT - EARTHWORK.
  6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.
  7. GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
  8. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

**TRENCHING, EMBEDMENT AND BACKFILL DETAIL**  
NOT TO SCALE

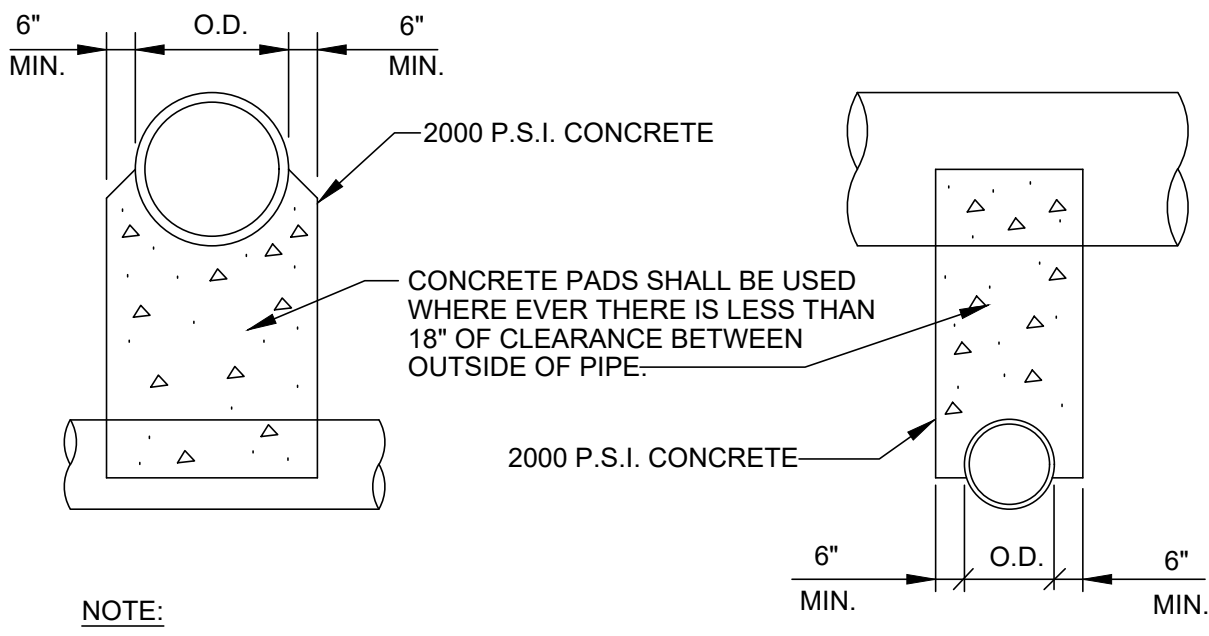


**GRAVEL PAVEMENT DETAIL**  
NOT TO SCALE



**TRENCH DAM DETAIL**  
NOT TO SCALE

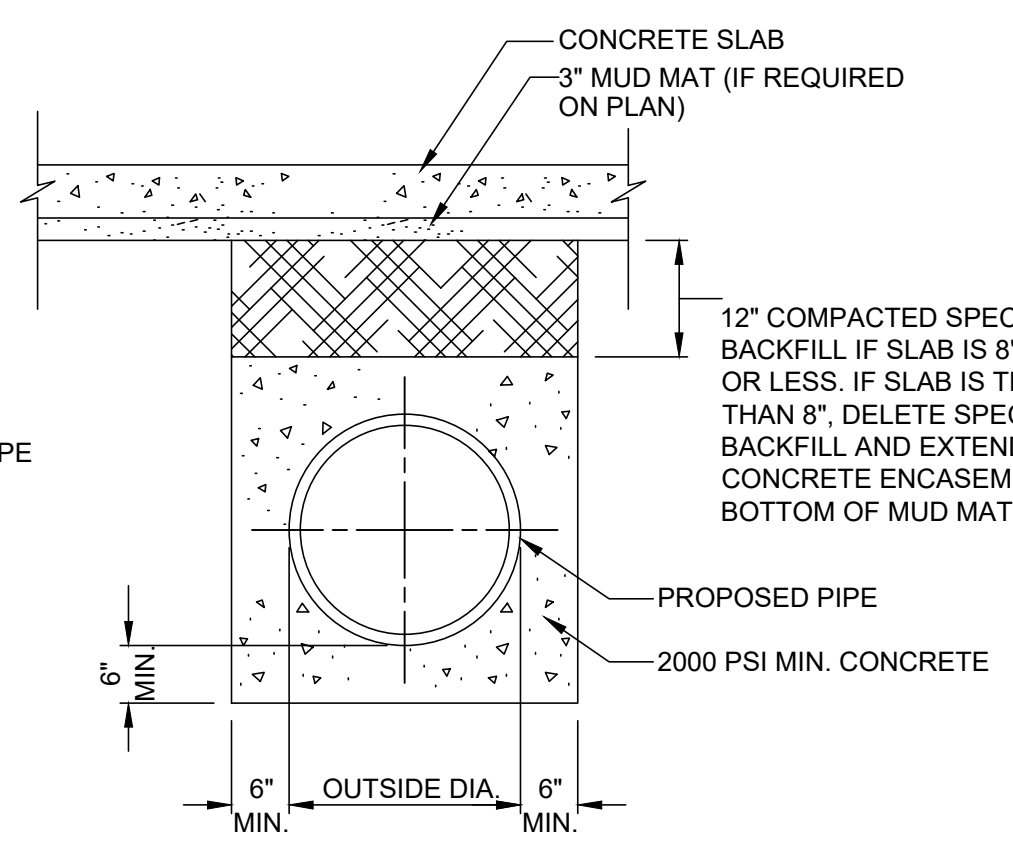
**TYPICAL PIPE ENCASEMENT**  
NOT TO SCALE



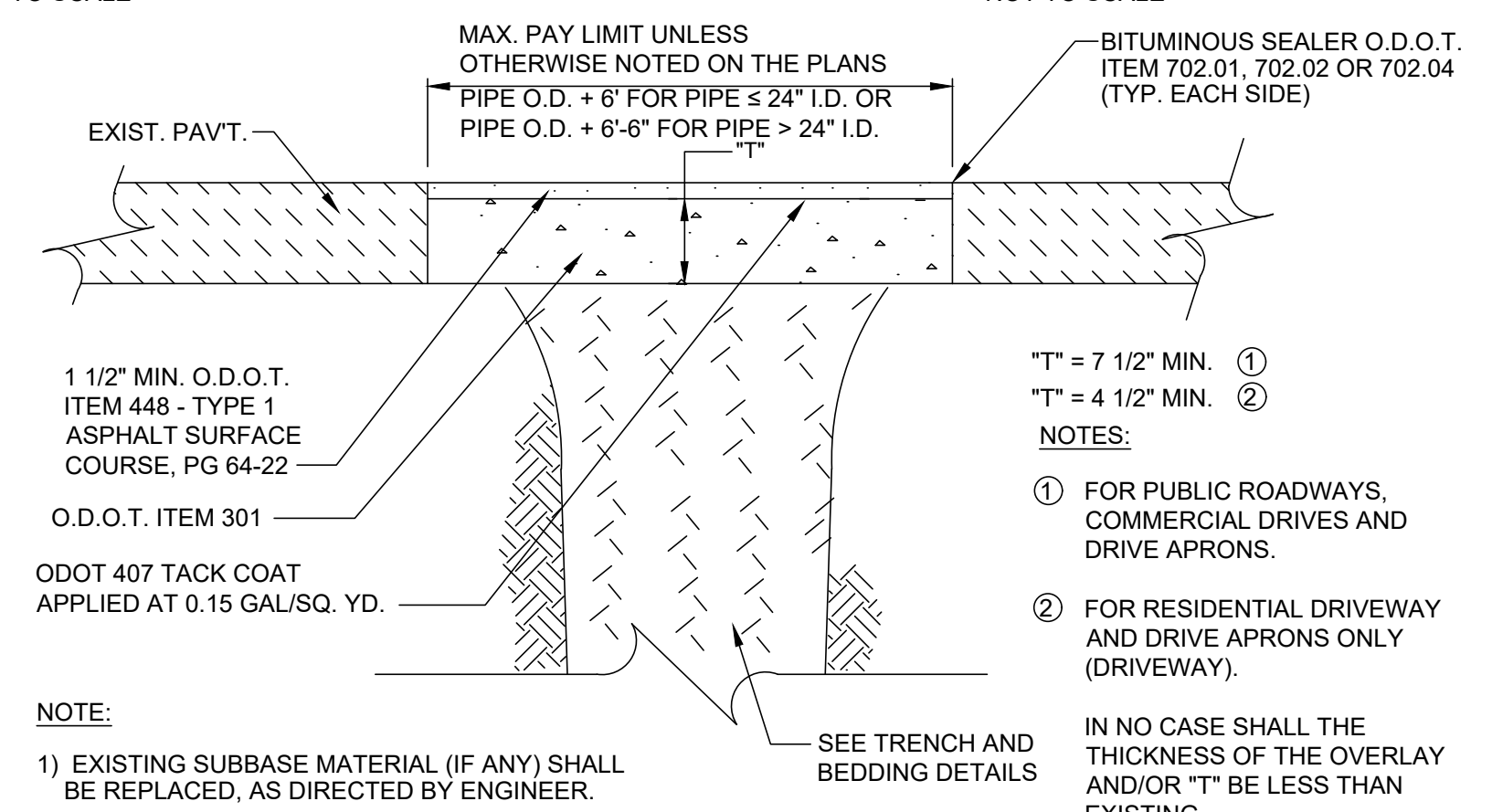
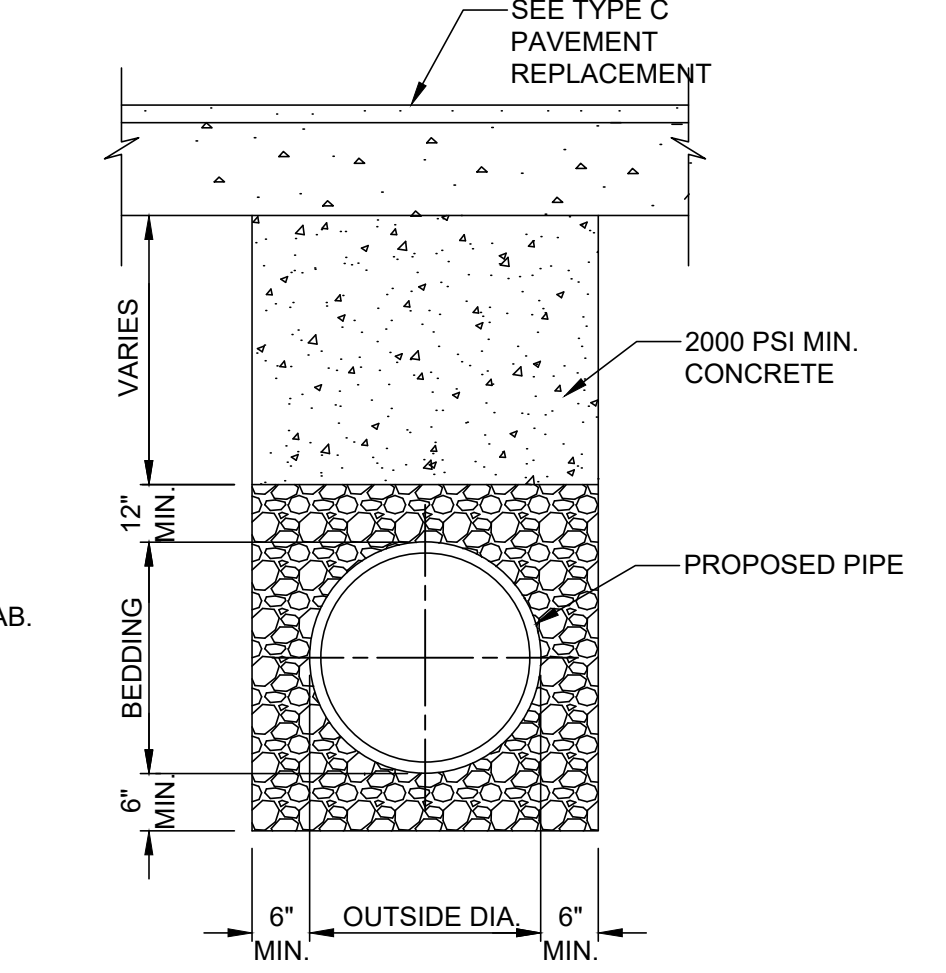
**NOTE:**  
UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

**PIPE CROSSING DETAIL**  
NOT TO SCALE

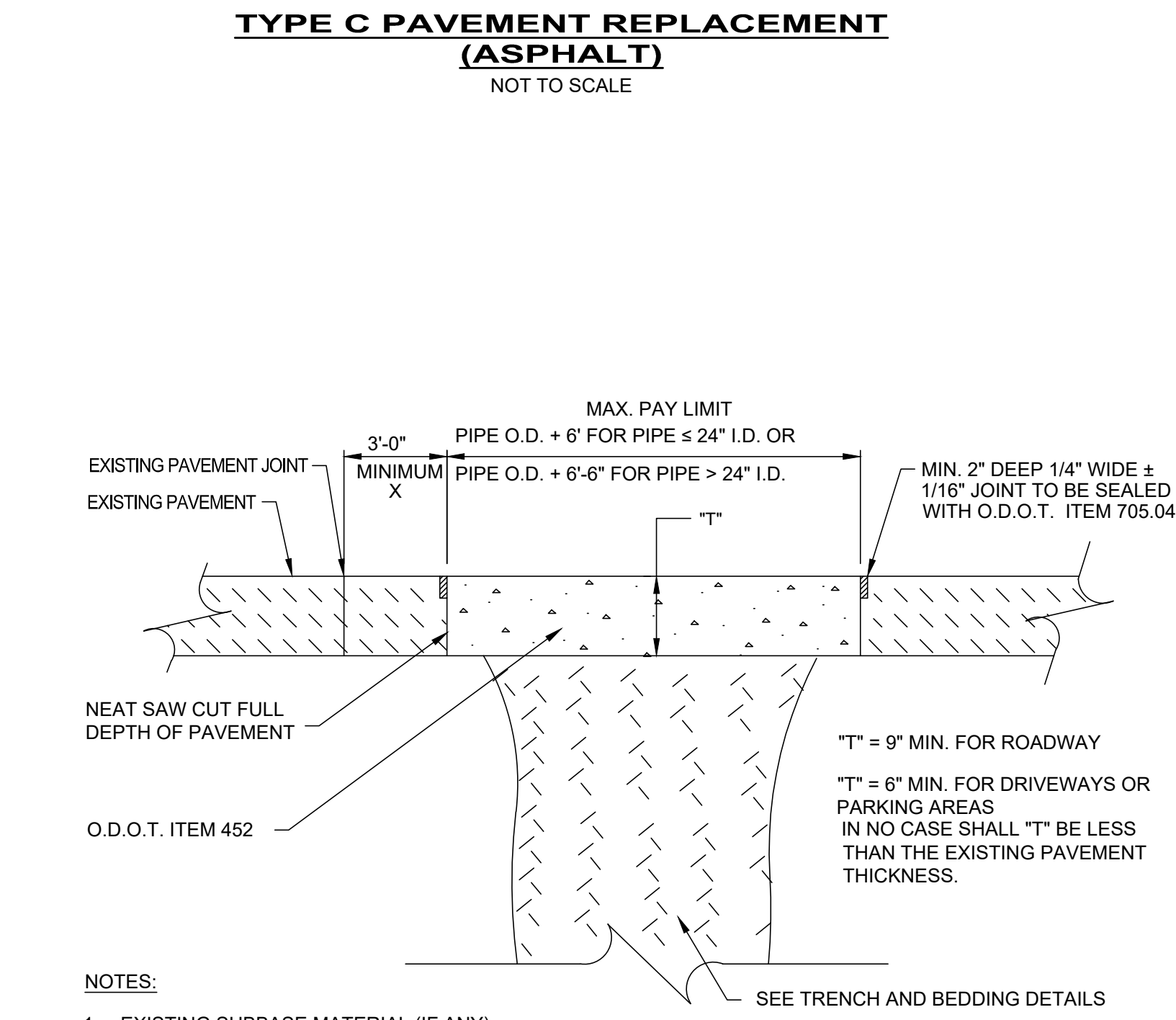
**TYPICAL PIPE ENCASEMENT UNDER STRUCTURES**  
NOT TO SCALE



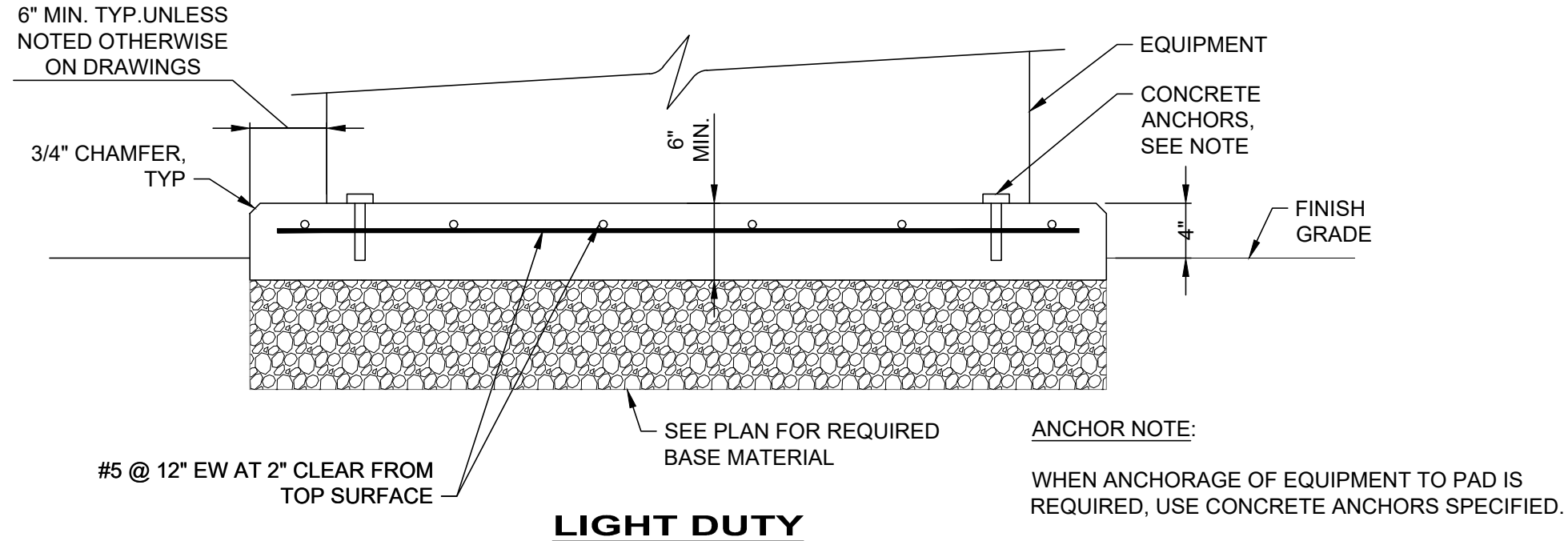
**TYPICAL PIPE ENCASEMENT UNDER STATE ROUTE**  
NOT TO SCALE



**TYPE C PAVEMENT REPLACEMENT (ASPHALT)**  
NOT TO SCALE



**TYPE A PAVEMENT REPLACEMENT (CONCRETE)**  
NOT TO SCALE

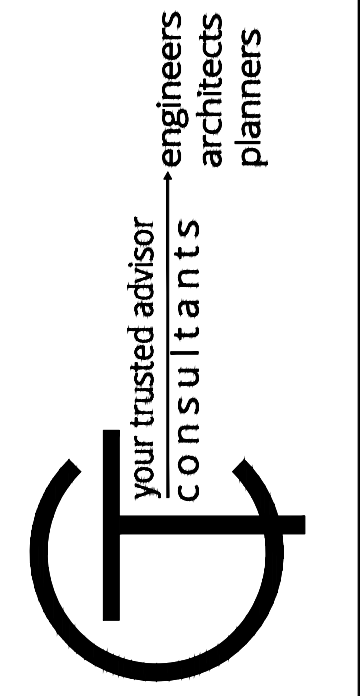


**LIGHT DUTY**

- NOTES:**
1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE DRAWINGS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
  2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCEPTABLE MEANS, MATCHING THE BASE PLATE, WHILE PAD IS BEING PLACED.
  3. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
  4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED.
  5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
  6. WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. WEDGES OR SHIMS THAT ARE LEFT IN PLACE SHALL NOT BE EXPOSED TO VIEW.
  7. HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE TYPE "B" EQUIPMENT PAD WITH BLOCKOUT.
  8. AT CONTRACTOR'S OPTION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR EQUIPMENT ANCHOR BOLTS LESS THAN 3/4" DIAMETER WHEN APPROVED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. ANCHORS SHALL BE INSTALLED WITH 4" MINIMUM EDGE DISTANCE IN EACH DIRECTION.
  9. PAD SURFACE SHALL BE BEVELED SO THAT WATER DOES NOT POOL UNDER EQUIPMENT.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24

**CONCRETE EQUIPMENT PAD**  
NOT TO SCALE



ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	OCTOBER 2023	AS SHOWN	JR	JR	
NO.	REVISION	DATE			

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -  
**CONSTRUCTION DETAILS 1**

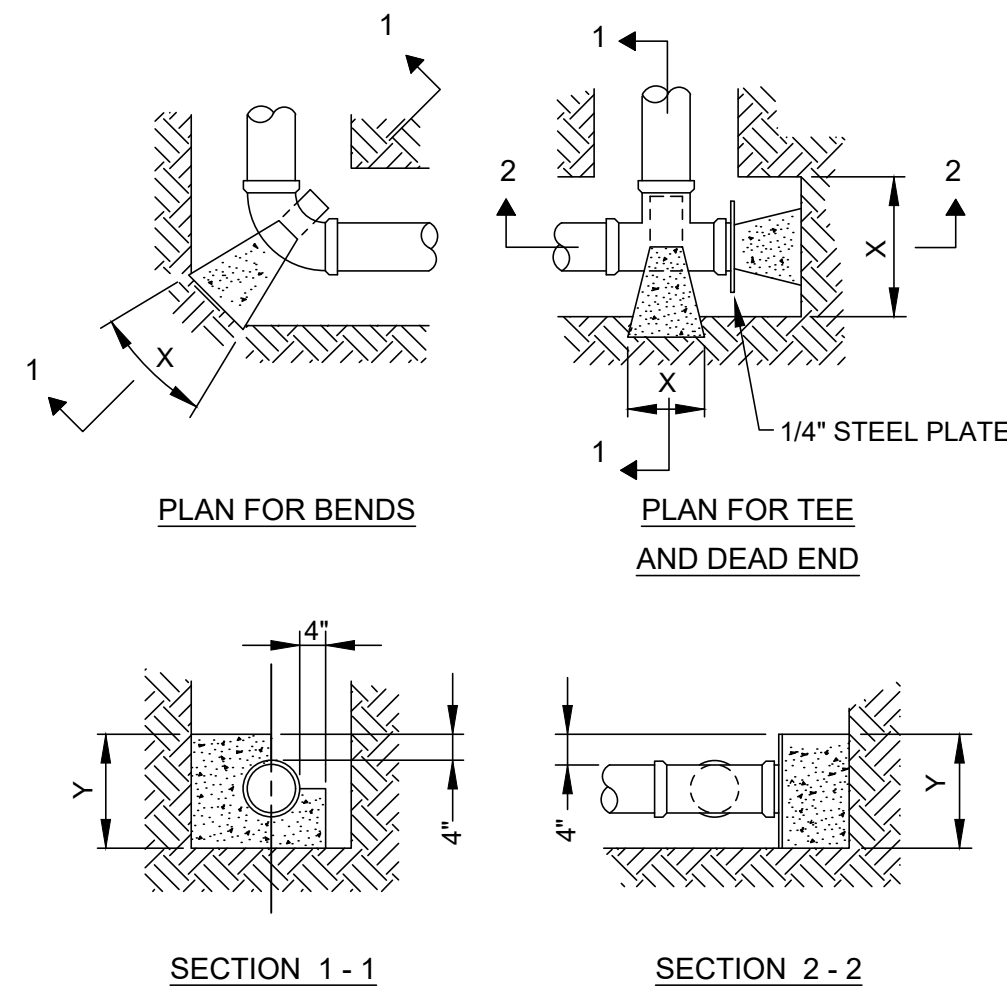
PROJECT NO.	220432
DISCIPLINE	GENERAL
SHEET NAME	SAN-DET 1
SHEET	OF
41	43



PIPE SIZE	SIZING SCHEDULE					
	22 1/2° BEND			45° BEND		
	SOIL BEARING CAPACITY	BEARING FACE (X Y) IN SQ. FT.		SOIL BEARING CAPACITY	CONCRETE VOLUME IN CU. YD.	
1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	
4	1.40	0.46	0.26	2.70	0.90	0.54
	0.14	0.09	0.06	0.12	0.06	0.06
6	2.80	0.93	0.56	5.50	1.83	1.10
	1.15	0.10	0.07	0.15	0.10	0.07
8	4.80	1.60	0.96	9.60	3.20	1.92
	0.20	0.13	0.09	0.23	0.15	0.09
10	7.90	2.63	1.96	15.70	5.23	3.14
	0.53	0.34	0.22	0.34	0.20	0.13
12	11.30	3.76	2.26	22.30	7.43	4.46
	0.62	0.40	0.28	0.75	0.49	0.32
14	15.30	5.10	3.06	30.20	10.06	6.04
	0.74	0.48	0.31	0.98	0.64	0.42
16	19.80	6.60	3.96	39.10	13.03	7.82
	1.17	0.76	0.49	1.21	0.79	0.51

PIPE SIZE	90° BEND			TEE OR DEAD END		
	SOIL BEARING CAPACITY	BEARING FACE (X Y) IN SQ. FT.		SOIL BEARING CAPACITY	CONCRETE VOLUME IN CU. YD.	
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.
4	4.90	1.63	0.96	3.50	1.16	0.70
	0.14	0.09	0.06	0.12	0.06	0.06
6	10.20	3.40	2.04	7.20	2.40	1.44
	0.22	0.14	0.09	0.17	0.11	0.07
8	17.70	5.54	3.54	12.50	4.16	2.50
	0.35	0.23	0.15	0.25	0.16	0.14
10	28.90	9.60	5.76	20.40	6.80	4.06
	0.54	0.35	0.23	0.38	0.25	0.16
12	41.10	13.70	8.22	29.10	9.70	5.82
	1.31	0.85	0.55	0.97	0.63	0.42
14	55.80	18.60	11.16	39.50	13.16	7.90
	1.70	1.11	0.72	1.22	0.79	0.51
16	72.20	24.06	14.44	51.10	17.03	10.22
	2.14	1.39	0.90	1.54	1.00	0.65



ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

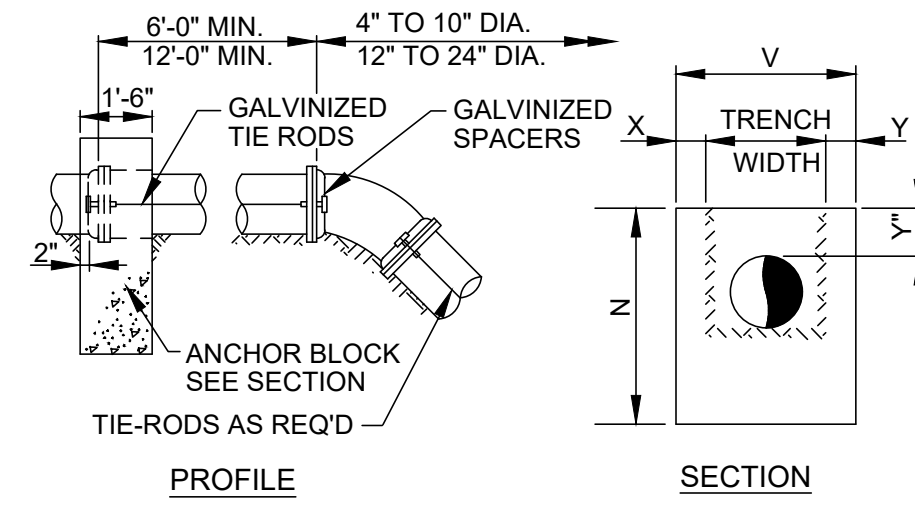
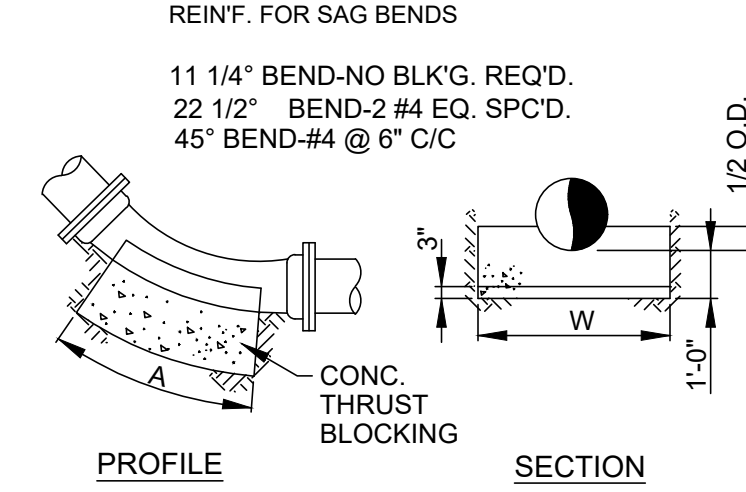


TABLE OF DIMENSIONS - OVER BENDS

PIPE SIZE	11 1/4°, 22 1/2°, & 45° BENDS					TIE RODS NO. & SIZE
	X	V	Y	N	C.Y.	
4"	1'-0"	4'-3"	1'-0"	2'-4"	.55	2-3/4" DIA.
6"	1'-0"	4'-6"	1'-0"	2'-6"	.61	2-3/4" DIA.
8"	1'-0"	4'-8"	1'-0"	2'-8"	.67	2-3/4" DIA.
10"	1'-0"	4'-10"	1'-0"	2'-10"	.72	4-3/4" DIA.
12"	1'-0"	5'-0"	1'-0"	3'-0"	.78	4-3/4" DIA.
14"	1'-0"	5'-2"	1'-0"	3'-3"	.87	6-3/4" DIA.
16"	1'-0"	5'-4"	1'-0"	4'-4"	1.09	8-3/4" DIA.
18"	1'-0"	5'-6"	1'-0"	4'-7"	1.34	8-3/4" DIA.

NOTES:

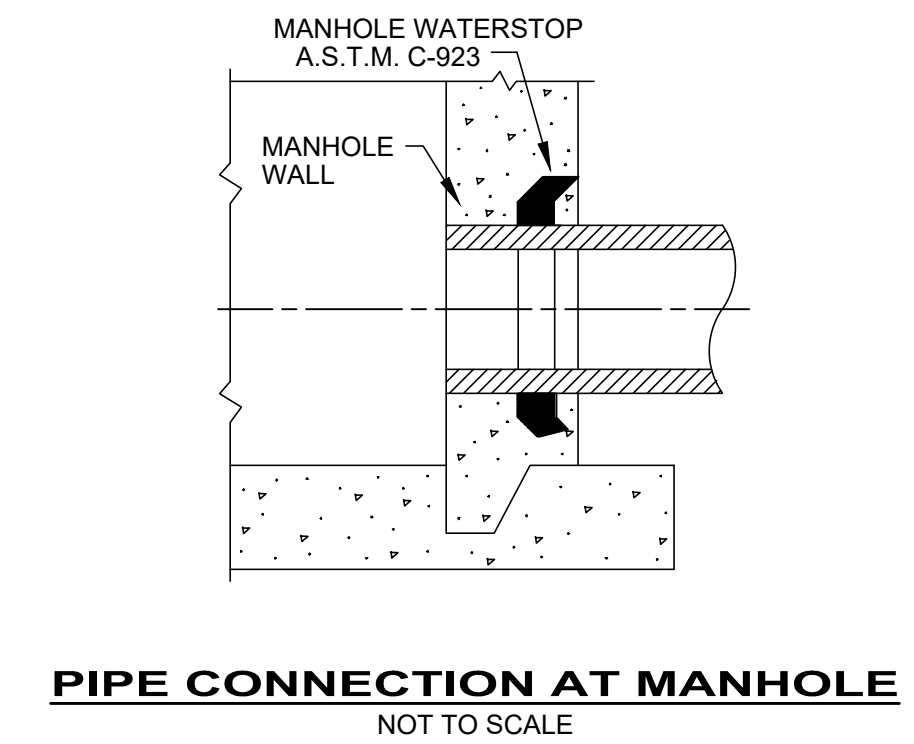
- TABLE PORTION FOR NO. AND SIZE OF TIE RODS IS APPLICABLE TO ALL TIE-IN PIPING REQUIRING SUCH REINFORCEMENT.
- USE OF ANCHOR BLOCKS AND OR THRUST BLOCKS NEEDED ONLY IF A TIE-RODDED EXTENSION PIECE EQUALS OR EXCEEDS A STANDARD PIPE LENGTH.



TABEL OF DIMENSIONS - SAG BENDS

PIPE SIZE	22 1/2° BEND			45° BEND		
	A	W	C.Y.	A	W	C.Y.
4"	—	—	—	0'-8"	1'-8"	0.05
6"	—	—	—	0'-9"	2'-8"	0.10
8"	0'-8"	1'-4"	0.04	1'-2"	2'-10"	0.16
10"	0'-8"	2'-0"	0.06	1'-2"	3'-0"	0.24
12"	0'-8"	2'-4"	0.08	1'-7"	3'-2"	0.28
14"	0'-8"	2'-9"	0.09	1'-8"	3'-2"	0.28
16"	0'-9"	3'-4"	0.14	2'-3"	3'-4"	0.41
18"	1'-0"	3'-6"	0.20	2'-9"	3'-6"	0.54

- BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE OF WATER HAMMER AND SOIL BEARING AT 3000 P.S.I.



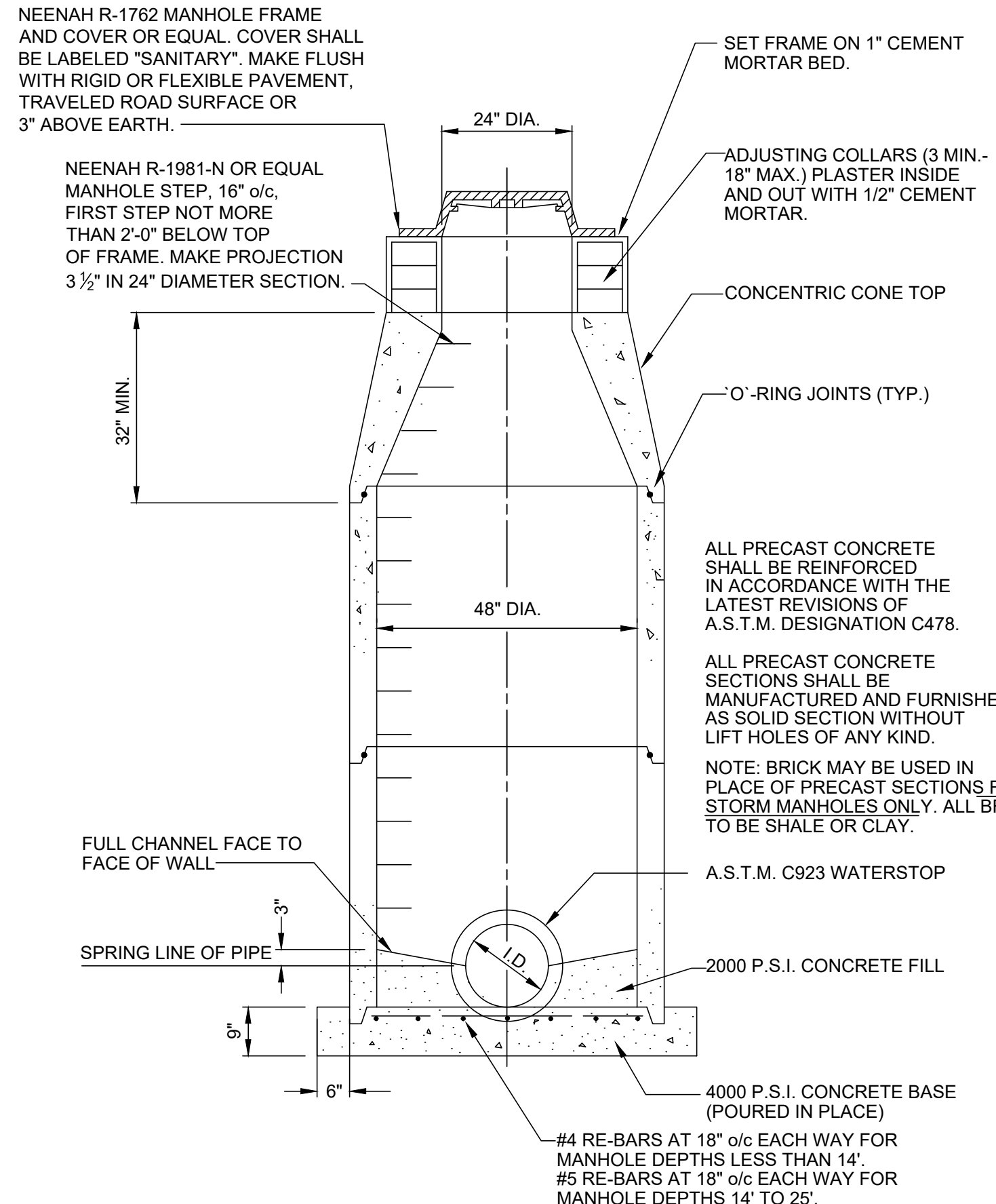
PIPE CONNECTION AT MANHOLE NOT TO SCALE

**THRUST BLOCKING DETAIL**

NOT TO SCALE

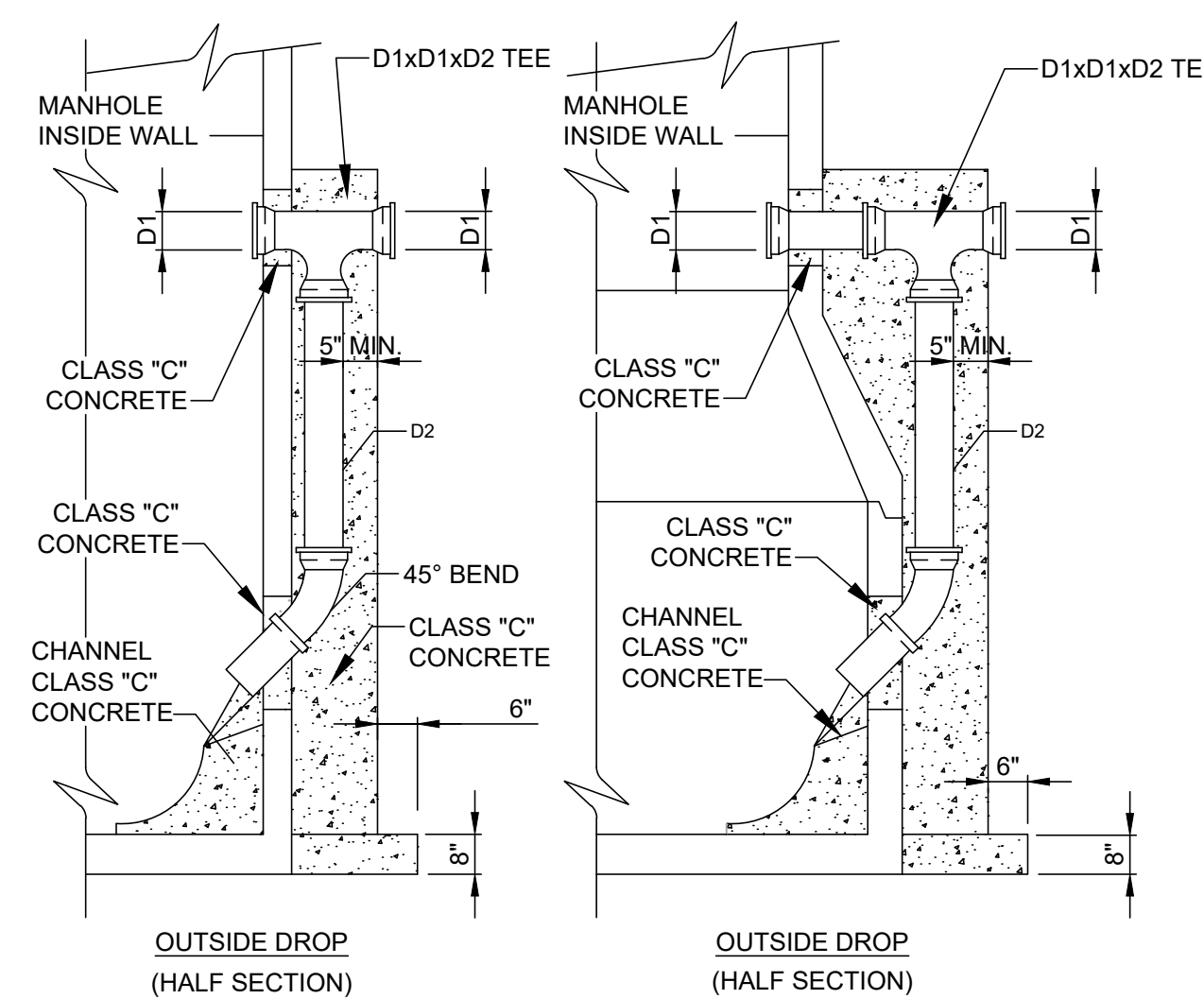
**OVER & SAG BEND THRUST BLOCKING DETAILS**

NOT TO SCALE



**STANDARD TYPE "A" CONCENTRIC MANHOLE (24" I.D. OR LESS)**

NOT TO SCALE



- NOTES:
- DROP IS REQUIRED WHEN INVERT DIFFERENTIAL IS 24 INCHES OR GREATER.
  - HEIGHT OF DROP PIPE IS TO BE AS SHOWN ON THE DRAWINGS OR WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
  - ALL WORK AND MATERIALS REQUIRED TO CONSTRUCT THE DROP SHOULD BE INCLUDED FOR PAYMENT UNDER THE PAY ITEMS ESTABLISHED FOR MANHOLES, AND/OR PIPE SEWERS COMPLETE IN PLACE.
  - MATERIALS FOR THE TEE, DROP PIPE AND BEND SHALL BE C.I., DIP, OR PVC.
  - PIPE REQUIRE A 5" THICK (MINIMUM) CLASS "C" CONCRETE ENCASEMENT ON THREE SIDES OF PIPE AND TIED TO MANHOLE WALL WITH 5/8"-U" RODS X 6" LONG @ 12".

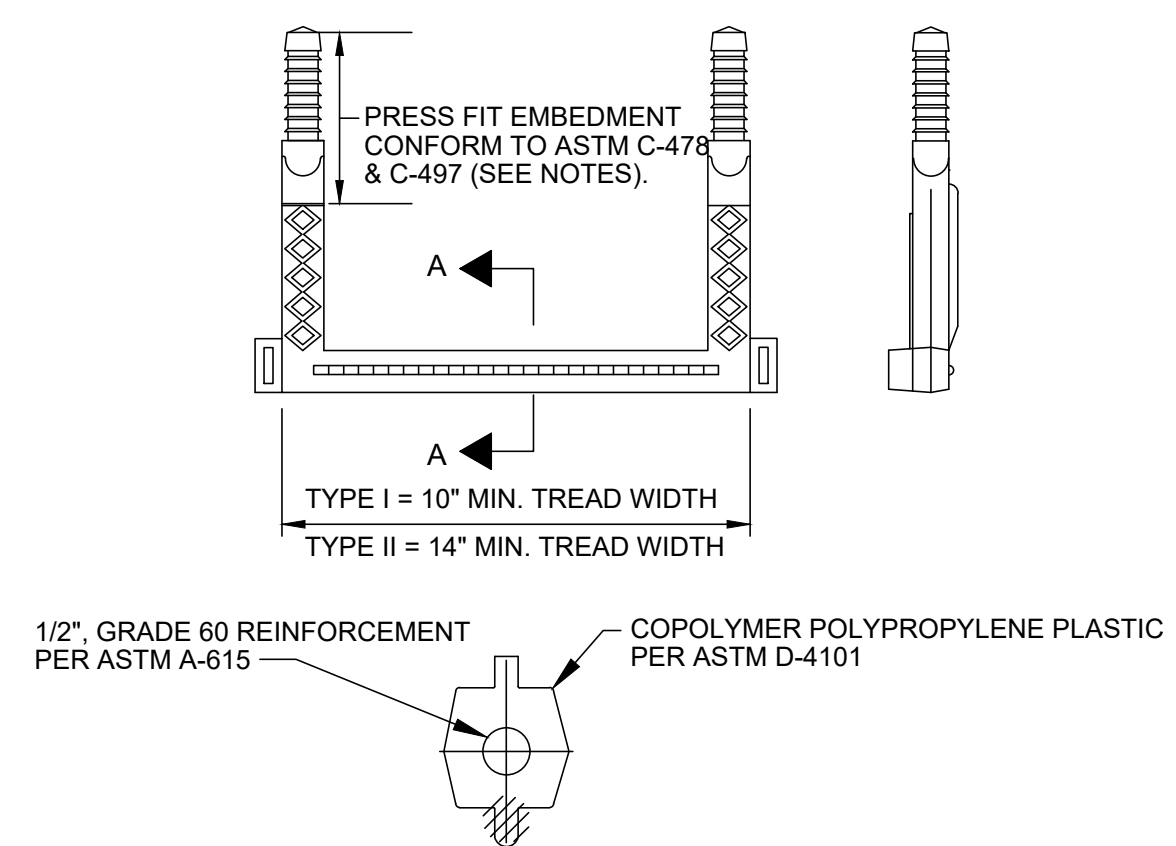
PIPE DIAMETER	
D1	D2
8"	8"
10"	8"
12"	8"
15"	10"
18"	10"
21"	12"
24"	12"

**OUTSIDE DROP PIPE FOR MANHOLES**

NOT TO SCALE

**SANITARY SEWER FLEXIBLE GASKET DETAIL**

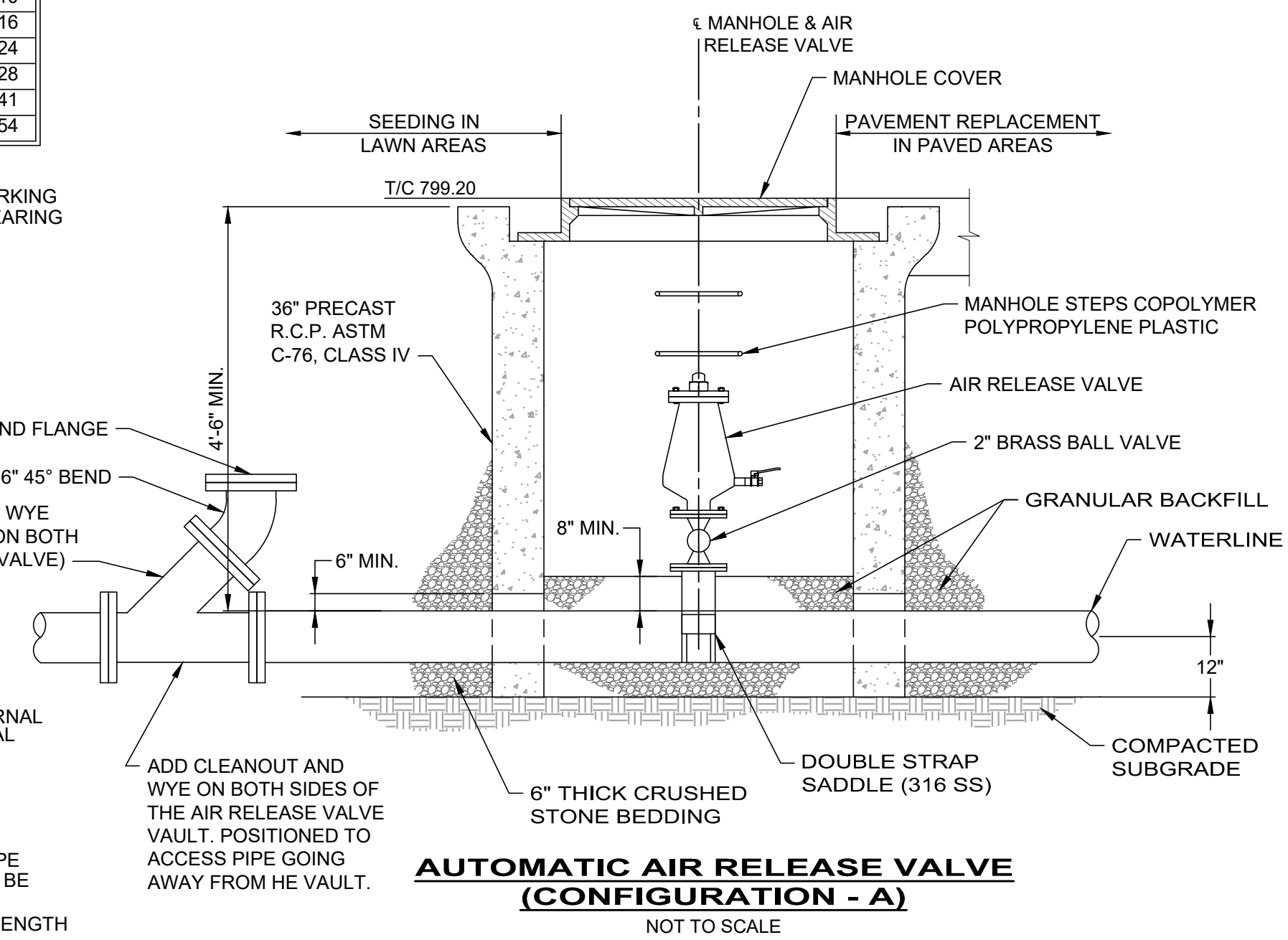
NOT TO SCALE



- NOTES:
- USE TYPE I STEP FOR MANHOLES OR CIRCULAR STRUCTURES OF 5'-0" DIA. OR LESS - USE 16" C/C SPACING.
  - USE TYPE II STEP FOR FLAT WALL STRUCTURES SUCH AS VAULTS, WELLS, ETC. OR CIRCULAR STRUCTURES OVER 5'-0" DIA. - USE 12" C/C SPACING.
  - MOUNTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH MFR'S RECOMMENDATIONS.

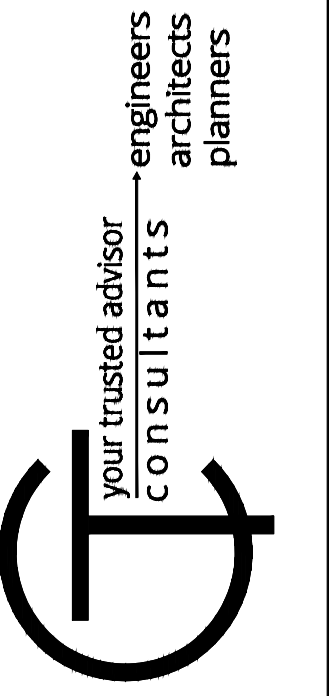
**TYPICAL MANHOLE STEP DETAIL**

NOT TO SCALE



**AUTOMATIC AIR RELEASE VALVE (CONFIGURATION - A)**

NOT TO SCALE

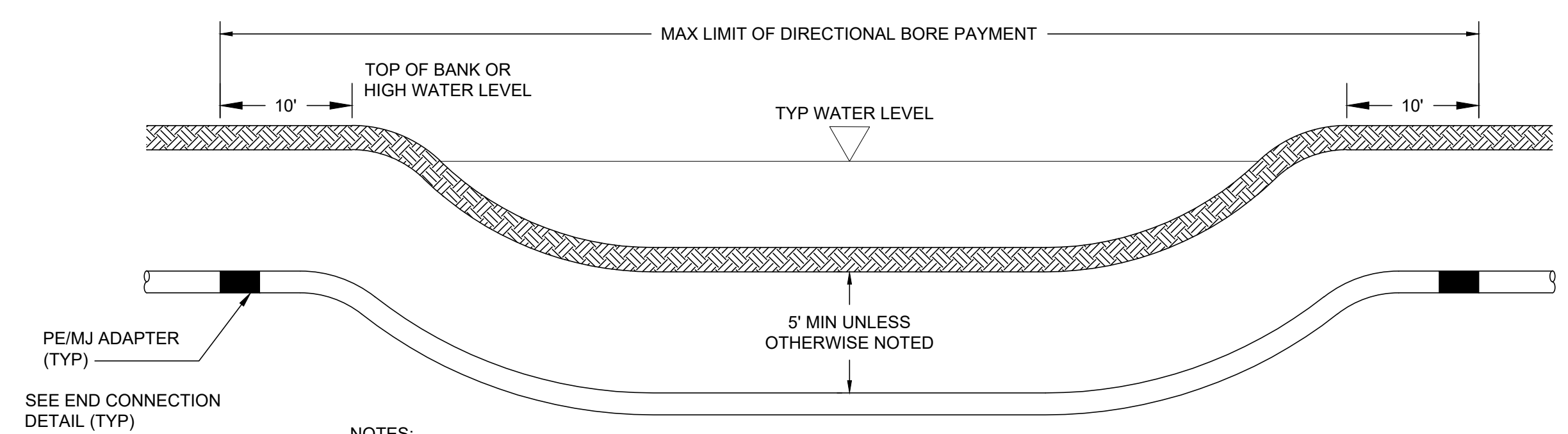
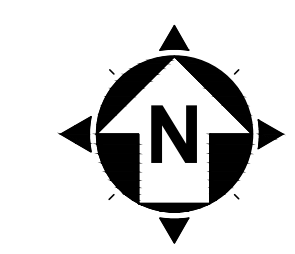


ISSUED FOR:	DATE:	REVISION:	NO:
ISSUE DATE: OCTOBER 2023	AS SHOWN	JR	JR
SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

**LIFT STATION & SANITARY SEWER CONSTRUCTION DETAILS 2**

PROJECT NO.	220432
DISCIPLINE	GENERAL
SHEET NAME	SAN-DET 2
SHEET	42
OF	43

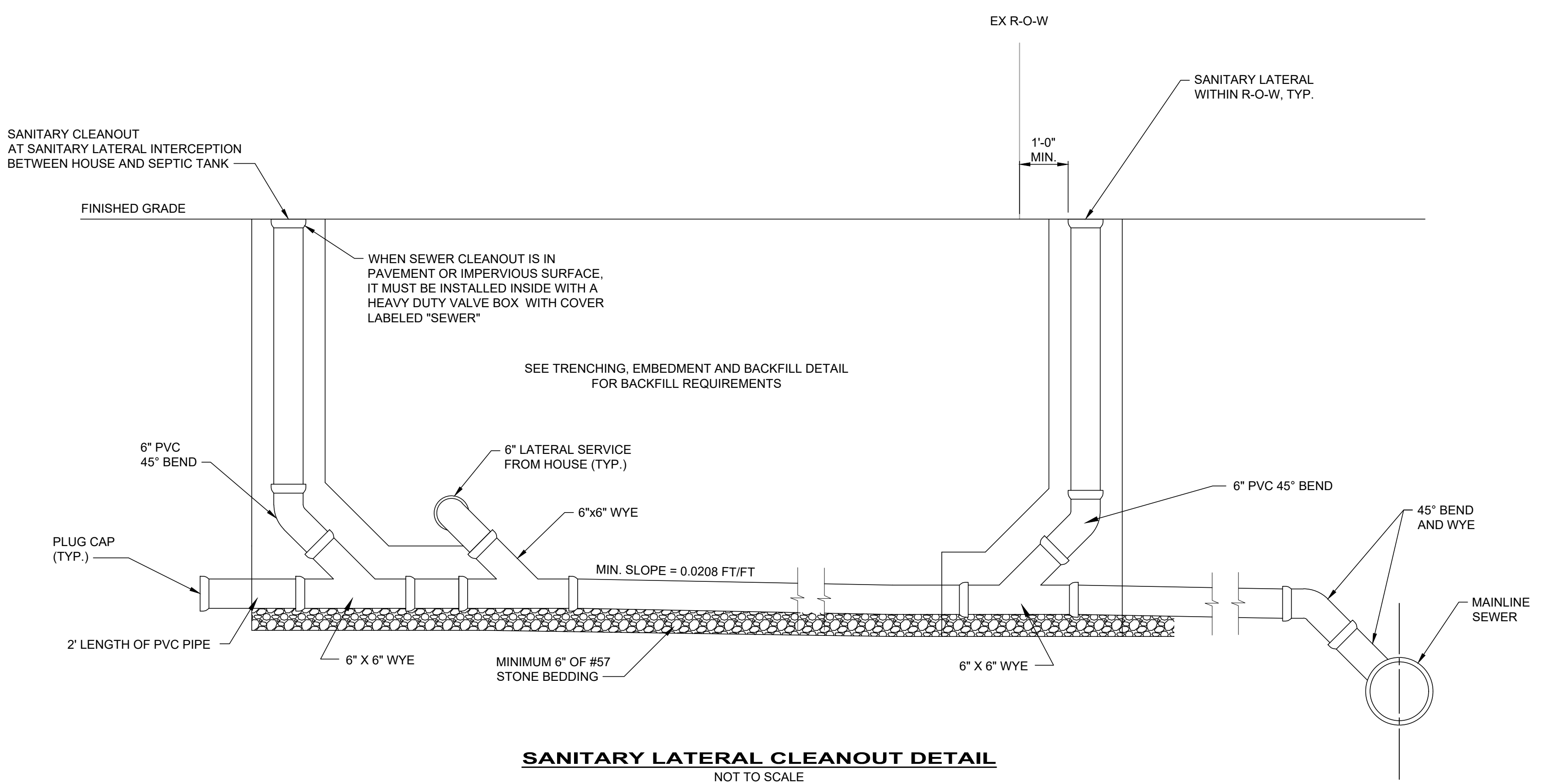




**NOTES:**

1. WHERE DIRECTIONAL BORE INCORPORATES RESTRAINED JOINT PVC PIPE, OMIT PE/MJ ADAPTER.
2. DIRECTIONAL BORE SHALL INCORPORATE TWO INSULATED NO 12 GAUGE, SOLID, COPPER WIRES INSTALLED WITH THE PIPE FOR LOCATING PURPOSES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

**HORIZONTAL DIRECTIONAL DRILLING @ STREAM/CREEK CROSSING**  
NOT TO SCALE

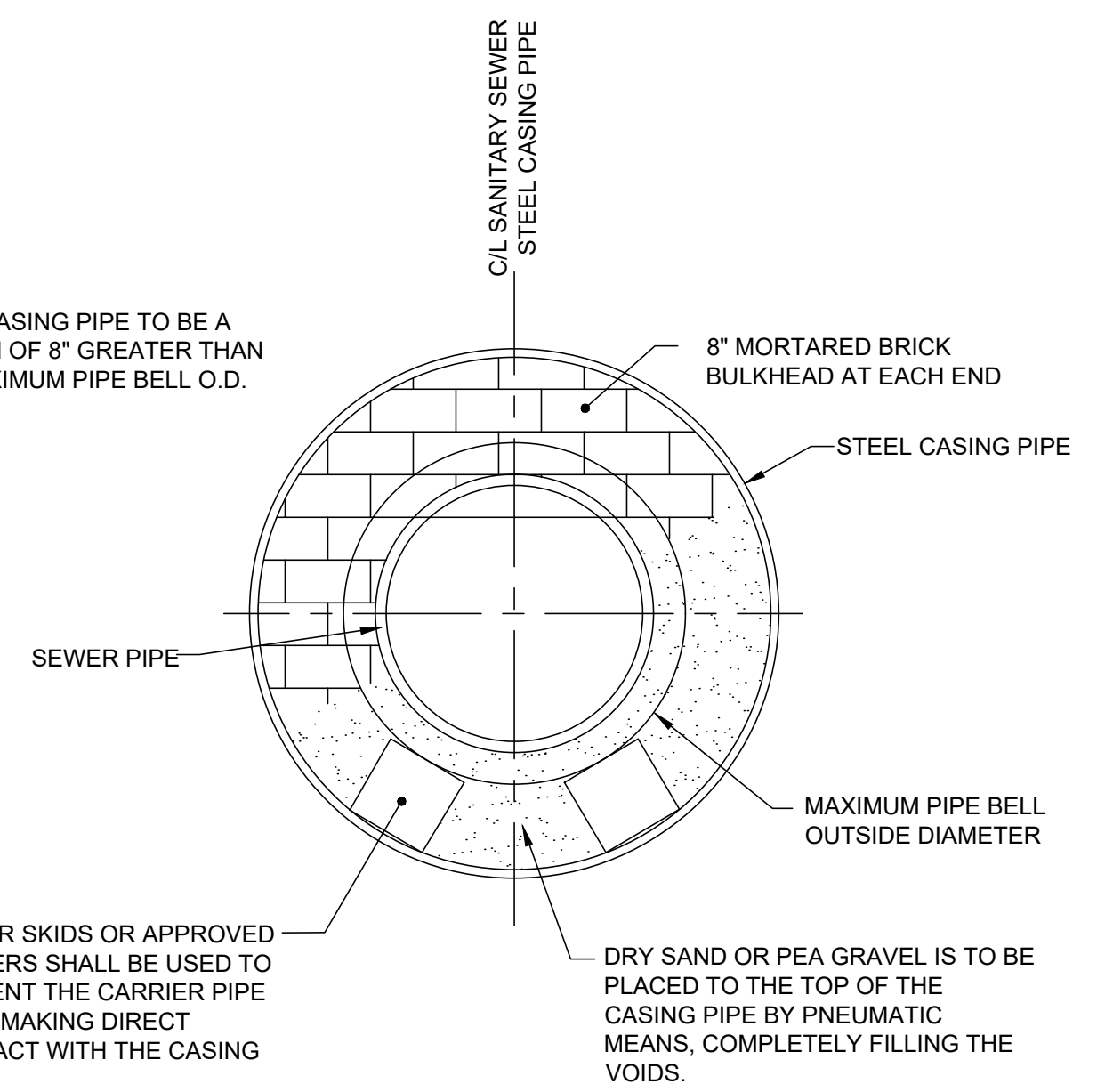


**SANITARY LATERAL CLEANOUT DETAIL**  
NOT TO SCALE

**NOTES:**

1. CONCRETE ENCASEMENT AND BLOCKING REQUIRED IF DEPTH OF CONNECTION IS 12" OR GREATER.
2. EACH SANITARY LATERAL MUST BE IN SEPARATE TRENCHES
3. FOR CLEANOUTS THAT TERMINATE IN PAVED AREAS, A FRAME AND COVER SHALL BE USED IN ADDITION TO MANUFACTURES CAP/PLUG
4. INSTALLATIONS BY CONTRACTOR BEYOND THE PROPERTY LINE WILL REQUIRE AN INSPECTION FROM THE OWNER OR ENGINEER. DO NOT BACKFILL TRENCH PRIOR TO INSPECTION.

NOTE:  
STEEL CASING PIPE TO BE A MINIMUM OF 8" GREATER THAN THE MAXIMUM PIPE BELL O.D.



**BORING AND JACKING DETAIL**  
NTS

NO	REVISION	DATE

ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	OCTOBER 2023	AS SHOWN	JR	JR	JR

**LIFT STATION & SANITARY SEWER**  
CHERRY FORK, OH -  
**CONSTRUCTION DETAILS 3**

PROJECT NO.	220432
DISCIPLINE	GENERAL
SHEET NAME	SAN-DET 3
SHEET	OF
43	43