

S:\3184\Engineering\ACAD\B - Sanitary Sewer Plan\OFF-SITE FORCE MAIN\OSFM01-OSFM02.dwg, PS01, 4/9/2026 10:01:54 AM

1. SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT CAMDEN WYOMING WATER & SEWER AUTHORITY (CWSWA) STANDARD SPECIFICATIONS FOR CONSTRUCTION, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD DETAILS, AND THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES OR STRUCTURE STANDARDS IDENTIFIED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVAL AND ACCEPTANCE OF THE SANITARY SEWER SYSTEM BY CWSWA UPON COMPLETION OF CONSTRUCTION. AS-BUILT PLANS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE MUST BE SUBMITTED TO CWSWA BEFORE ACCEPTANCE.
3. DURING CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION ON SITE A CLEAN SET OF CONSTRUCTION PLANS BEARING CWSWA'S STAMP OF APPROVAL. THE CONTRACTOR SHALL MAINTAIN A SECOND STAMPED SET PROVIDING REFINES FOR ADJUSTMENTS MADE DURING CONSTRUCTION. THE REDLINE SET SHALL BE PROVIDED TO THE DESIGN ENGINEER PRIOR TO AS-BUILT SURVEY.
4. THE CONTRACTOR SHALL NOT PLACE, PLANT, PUT OR SET ANY STRUCTURE WITHIN THE SANITARY SEWER EASEMENT.
5. A CONSTRUCTION PERMIT ISSUED BY THE STATE OF DELAWARE, DEPARTMENT OF TRANSPORTATION (DELDOT) IS REQUIRED WHERE CONSTRUCTION IS PERFORMED WITHIN A DELDOT RIGHT-OF-WAY. ALL WORK PERFORMED WITHIN DELDOT'S RIGHT-OF-WAY OR PROPERTY OWNED BY THE STATE OF DELAWARE SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT DELDOT STANDARD SPECIFICATIONS AND UTILITY MANUAL.
6. ALL SANITARY SEWERS AND THE PUMP STATION ARE PUBLIC AND ARE TO BE PUBLICLY MAINTAINED BY CWSWA.
7. CONSTRUCTION SHALL NOT DEVIATE FROM THE PLANS AND SPECIFICATIONS APPROVED BY CWSWA WITHOUT WRITTEN PERMISSION FROM CWSWA. MATERIAL AND EQUIPMENT SUBMITTALS ARE SUBJECT TO REVIEW BY CWSWA. CONTACT CWSWA AT 302-697-6372.
8. SHOP DRAWINGS AND SUBMITTAL DOCUMENTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE DESIGN ENGINEER AND DEVELOPER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE DELAWARE SEDIMENT AND STORMWATER REGULATION, DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK AND KENT COUNTY DRAINAGE STANDARDS, AS AMENDED.
10. CONSTRUCTION SUBMITTALS AND SUBSTITUTIONS MUST BE IN ACCORDANCE WITH CWSWA STANDARD SPECIFICATIONS FOR CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A RECORD OF ALL SUBMITTALS APPROVED BY CWSWA AND UPON REQUEST MAKING THEM AVAILABLE IN PREPARING AN AS-BUILT PLAN SUBMISSION.
12. CERTAIN COMPONENTS ASSOCIATED WITH THE PROPOSED SANITARY SEWER SYSTEM (I.E. CONCRETE ENCASEMENTS, BURIED FITTINGS, PIPE MATERIALS, ETC.) INCLUDING REQUIRED SEPARATION DISTANCES FROM OTHER UTILITIES, CANNOT BE VERIFIED BY VISUAL INSPECTION. THE INSTALLATION CONTRACTOR, OR AN AGENT OF THE CONTRACTOR, OR THE OWNER/DEVELOPER MUST OBTAIN THAT INFORMATION DURING CONSTRUCTION, MAINTAIN A LOG OF THAT INFORMATION AND FURNISH THE SAME TO WHOMEVER WILL BE PREPARING THE AS-BUILT PLAN SUBMISSION.
13. AS-BUILT DOCUMENTS SHALL NOT MERELY DOCUMENT THE DEFICIENCIES WITHIN THE SYSTEM. ALL DEFICIENCIES SHALL BE ADDRESSED PRIOR TO THE AS-BUILT BEING SUBMITTED.

CONTACT CWSWA TO SCHEDULE AND CONDUCT A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING ANY EXCAVATION OR ACTIVITY INVOLVING SANITARY SEWER CONSTRUCTION. PUMP STATION CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

C. CONTACT CWSWA (2 BUSINESS DAYS NOTICE AT 302-697-6372) PRIOR TO COMMENCEMENT OF ANY EXCAVATION OR ACTIVITY INVOLVING SANITARY SEWER CONSTRUCTION, PUMP STATION CONSTRUCTION OR LATERAL TIE-INS TO EXISTING LINES.

B. CONSTRUCTION PROPOSED FORCE MAIN AS APPROVED BY CWSWA.

C. BACKFILL AND RE-GRADE AS REQUIRED.

D. PERFORM HYDROSTATIC TEST ON THE FORCE MAINS IN THE PRESENCE OF A CWSWA INSPECTOR. THE HYDROSTATIC TEST SHALL BE CONDUCTED AT A MINIMUM WORKING PRESSURE OF 100 PSI, WHICHEVER IS GREATER. THE TEST SHALL LAST FOR A MINIMUM OF 2 HOURS AND AT THE END OF THE TEST PERIOD, IF THE TEST PRESSURE HAS REMAINED CONSTANT, THE PIPELINE SHALL HAVE PASSED THE TEST. IF THE PIPE DOES NOT HOLD PRESSURE, THE LEAK SHALL BE LOCATED AND REPAIRS MADE IMMEDIATELY.

E. PERFORM DRAW DOWN TEST ON THE PUMP STATION IN THE PRESENCE OF A CWSWA INSPECTOR TO VERIFY THE INSTALLATION MEETS DESIGNED OPERATING CONDITIONS.

F. THE ENTIRE LENGTH OF THE FORCE MAIN SHALL BE USING TYPICAL LOW FREQUENCY LINE TRACING EQUIPMENT AND WITNESSED BY THE CWSWA INSPECTOR. CONTINUITY TESTING IN LIEU OF ACTUAL LINE TRACING IS NOT ACCEPTABLE.

G. PRIOR TO CWSWA MAKING A FINAL INSPECTION, THE FOLLOWING ITEMS MUST BE COMPLETED:

- I. ALL MANHOLES MUST BE BROUGHT TO GRADE AND HAVE CONCRETE COULERS INSTALLED.
- II. ALL MANHOLES AND VAULTS MUST BE CLEAN AND FREE OF OBSTRUCTIONS.
- III. AS-BUILT DRAWINGS (SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER IN DELAWARE) WITH ONE (1) MYLAR AND TWO (2) SETS OF PRINTS MUST BE SUBMITTED TO CWSWA.

H. CERTIFICATES OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN RECEIVED, REVIEWED, AND APPROVED AND THE SANITARY SEWER CONSTRUCTION INCLUDING ALL APPEARANCES HAS BEEN ACCEPTED BY CWSWA.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF DAMAGED OR DESTROYED LANDSCAPING.
16. SEPARATION FROM WATER MAINS TO BE PROVIDED PER THE TEN STATE STANDARDS.
HORIZONTAL = 10" MINIMUM
VERTICAL = 18" MINIMUM (CLEAR)
17. ALL MANHOLES SHALL BE PRECAST, TYPE A-2 OR A-3, WITH A-LOK PIPE TO MANHOLE GASKET.
18. FOR ACCEPTANCE OF SANITARY SEWER LINES INSTALLED ABOVE THE WATER TABLE, AN AIR TEST OF ALL LINES REQUIRED IN ACCORDANCE WITH SECTION 321-01-3 OF THE CWSWA STANDARD SPECIFICATIONS.
19. MANHOLES IN PAVED AREAS SHALL BE EQUIPPED WITH A HEAVY TRAFFIC MANHOLE FRAME AND COVER.

21. CWSWA HAS THE RIGHT OF ACCESS TO THE SITE FOR THE PURPOSES OF OPERATING, MAINTAINING AND REPAIRING THE SANITARY SEWER LINES CONTAINED WITHIN THE SEWER EASEMENTS SHOWN ON THIS PLAN.

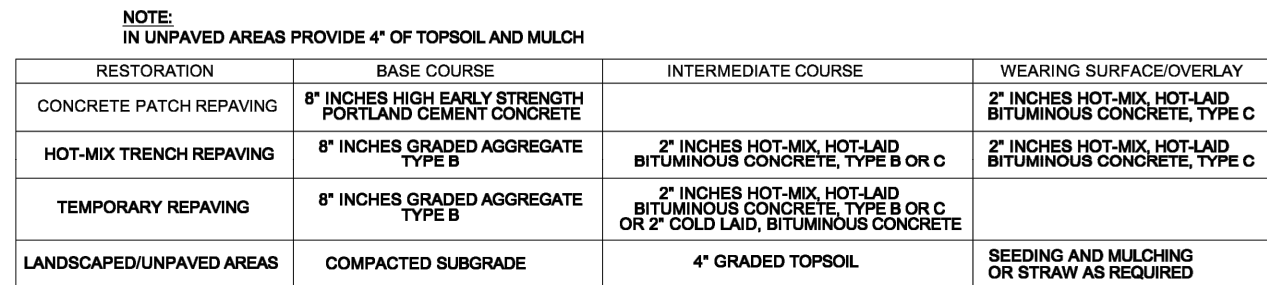
22. TOP OF MANHOLE ELEVATIONS ARE AT TOP OF MANHOLE FRAME AND COVER.

24. ANY SHEETING, SHORING, OR SIMILAR TRENCH BRACING THAT MAY BE NECESSARY FOR THE CONSTRUCTION OF THIS CONTRACT, SHALL BE INCIDENTAL TO THE COST OF THE LINEAR FOOTAGE OF SANITARY SEWER.

26. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.

28. ALL EXCAVATION SHALL BE UNCLASSIFIED

30. EXISTING UTILITIES INFORMATION IS SHOWN IN ACCORDANCE WITH AVAILABLE INFORMATION AND IS DEEMED TO REPRESENT QUALITY LEVEL C INFORMATION IN ACCORDANCE WITH A S.C.E. STANDARD 38-02. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES TO OBTAIN THE MOST RECENT INFORMATION REGARDING THE LOCATION, DEPTH, SIZE, AND LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE INCURRED BY AND COMPLETELY REPAIRED AT CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA (TELEPHONE 800-282-8555).

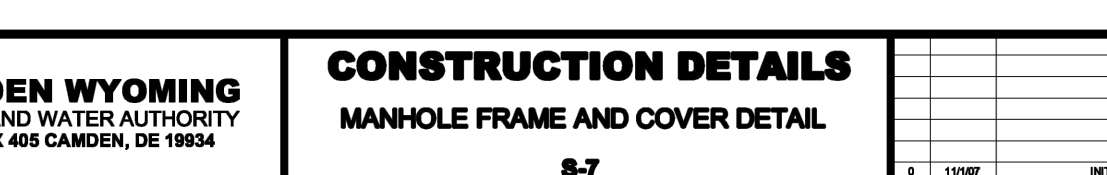


CAMDEN WYOMING SEWER AND WATER AUTHORITY P.O. BOX 405 CAMDEN, DE 19834	CONSTRUCTION DETAILS						
	TRENCH REPAIR DETAIL						
	S-6						
REV.	DATE	DESCRIPTION	BY	CHK	CSA	QDR	
0	11/07	INITIAL RELEASE					

CAMDEN WYOMING SEWER AND WATER AUTHORITY P.O. BOX 405 CAMDEN, DE 19834	CONSTRUCTION DETAILS PRE-CAST MANHOLE DETAIL S-1	
REV.	DATE	DESCRIPTION



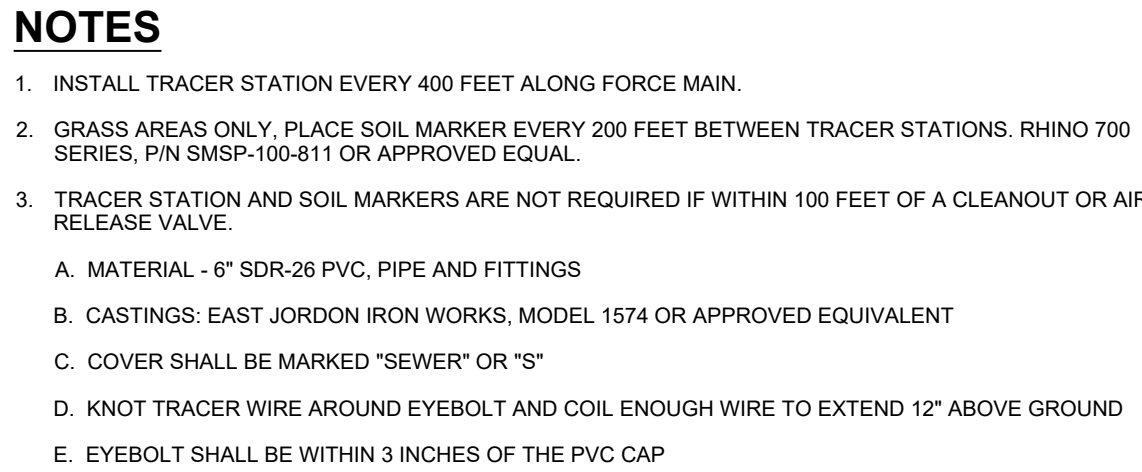
CAMDEN WYOMING		CONSTRUCTION DETAILS	
SEWER AND WATER AUTHORITY		IN LINE FORCE MAIN CLEANOUT DETAIL	
P.O. BOX 405 CAMDEN, DE 19934			
S-8			
0	11/07	INITIAL RELEASE	CIA
REV.	DATE	DESCRIPTION	BY



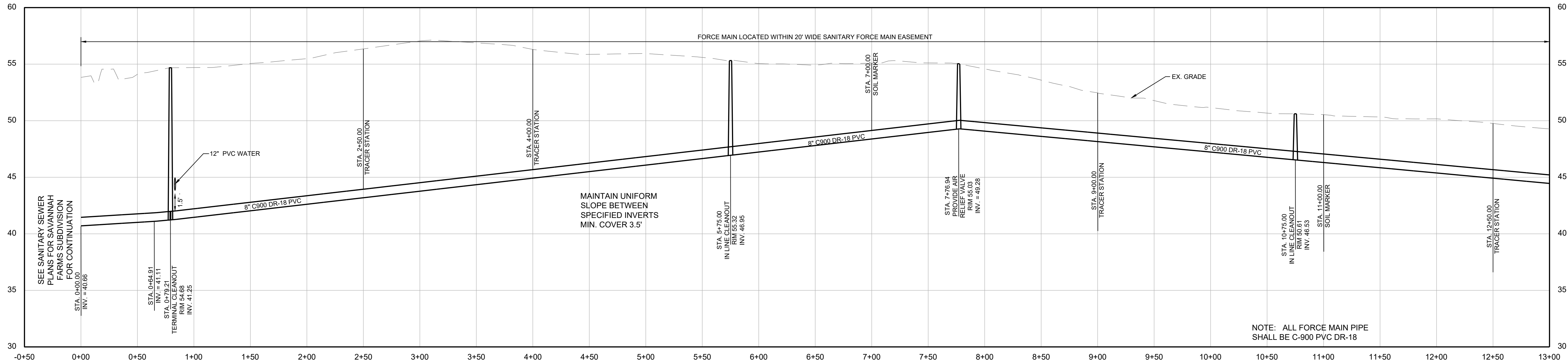
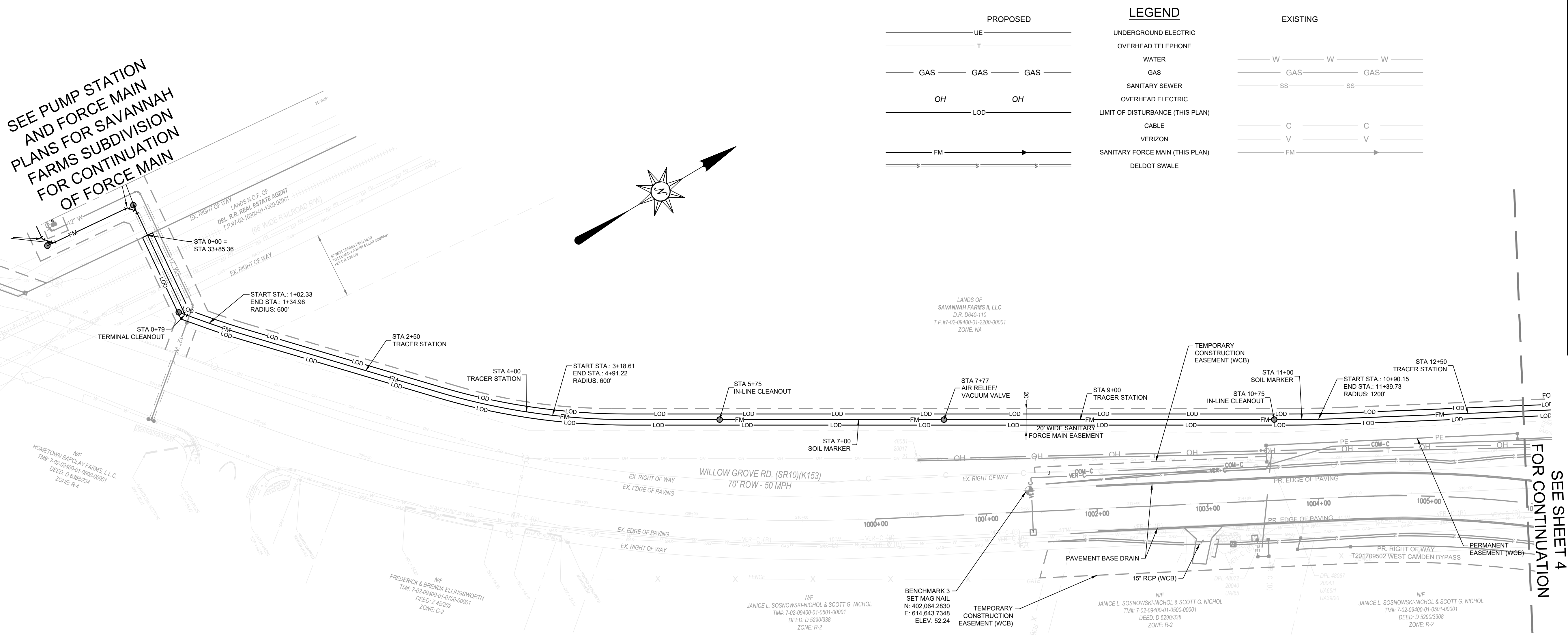
CAMDEN WYOMING		CONSTRUCTION DETAILS							
SEWER AND WATER AUTHORITY		MANHOLE FRAME AND COVER DETAIL							
P.O. BOX 405 CAMDEN, DE 19834		S-7							
REV.	DATE	INITIAL RELEASE	DESCRIPTION	BY	CHK				



CAMDEN WYOMING SEWER AND WATER AUTHORITY P.O. BOX 405 CAMDEN, DE 19934	CONSTRUCTION DETAILS TERMINAL FORCE MAIN CLEANOUT DETAIL			
	S-9			
	0 11/1/87 INITIAL RELEASE REV. DATE DESCRIPTION BY CHK	CDA BY CHK	50110	

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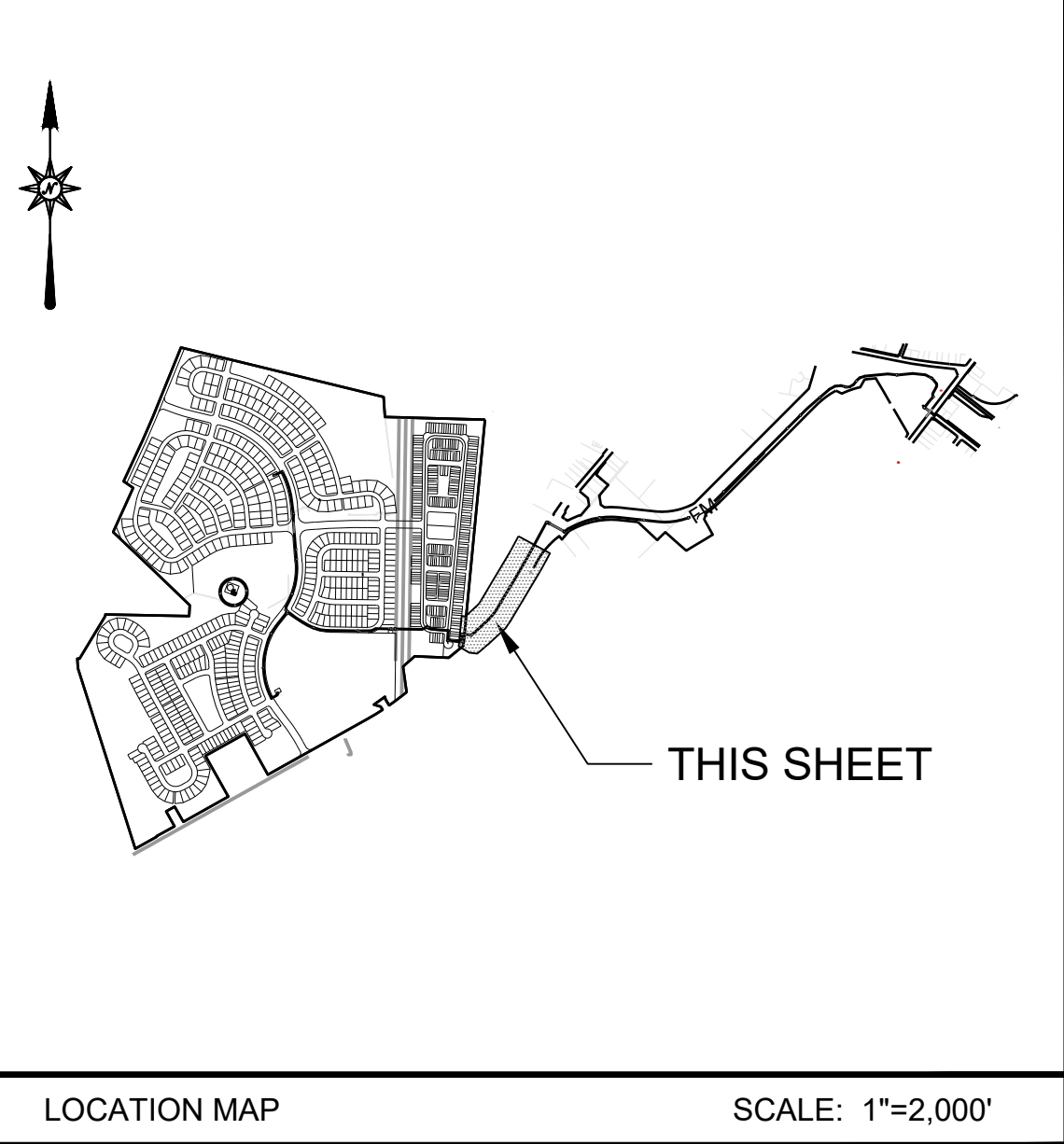
SEE PUMP STATION
AND FORCE MAIN
PLANS FOR SAVANNAH
FARMS SUBDIVISION
FOR CONTINUATION
OF FORCE MAIN



PROFILE OF OFFSITE FORCE MAIN

SCALE: HORIZ. 1"= 50', VERT. 1"= 5'

PROPOSED		LEGEND		EXISTING	
UE	—	UNDERGROUND ELECTRIC		W	—
T	—	OVERHEAD TELEPHONE		GAS	—
GAS	—	WATER		SS	—
OH	—	GAS		C	—
LOD	—	SANITARY SEWER		V	—
FM	—	OVERHEAD ELECTRIC		FM	—
	—	LIMIT OF DISTURBANCE (THIS PLAN)			
	—	CABLE			
	—	VERIZON			
	—	SANITARY FORCE MAIN (THIS PLAN)			
	—	DELDOT SWALE			



SEE SHEET 4
FOR CONTINUATION

OFF-SITE SANITARY FORCE MAIN
CONSTRUCTION PLANS
FOR
SAVANNAH FARMS
SITUATE IN: TOWNS OF CAMDEN & WYOMING, KENT COUNTY, DELAWARE

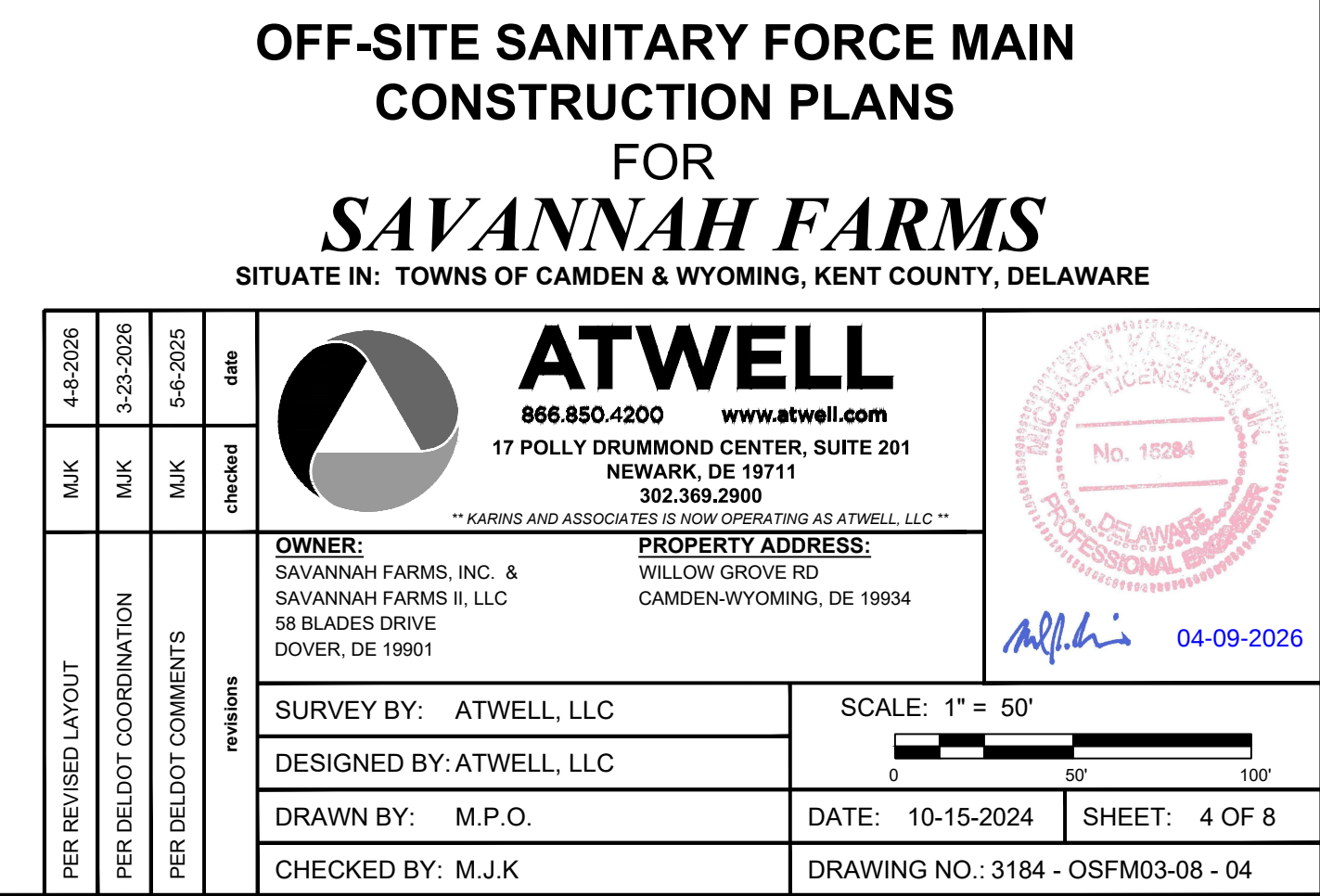
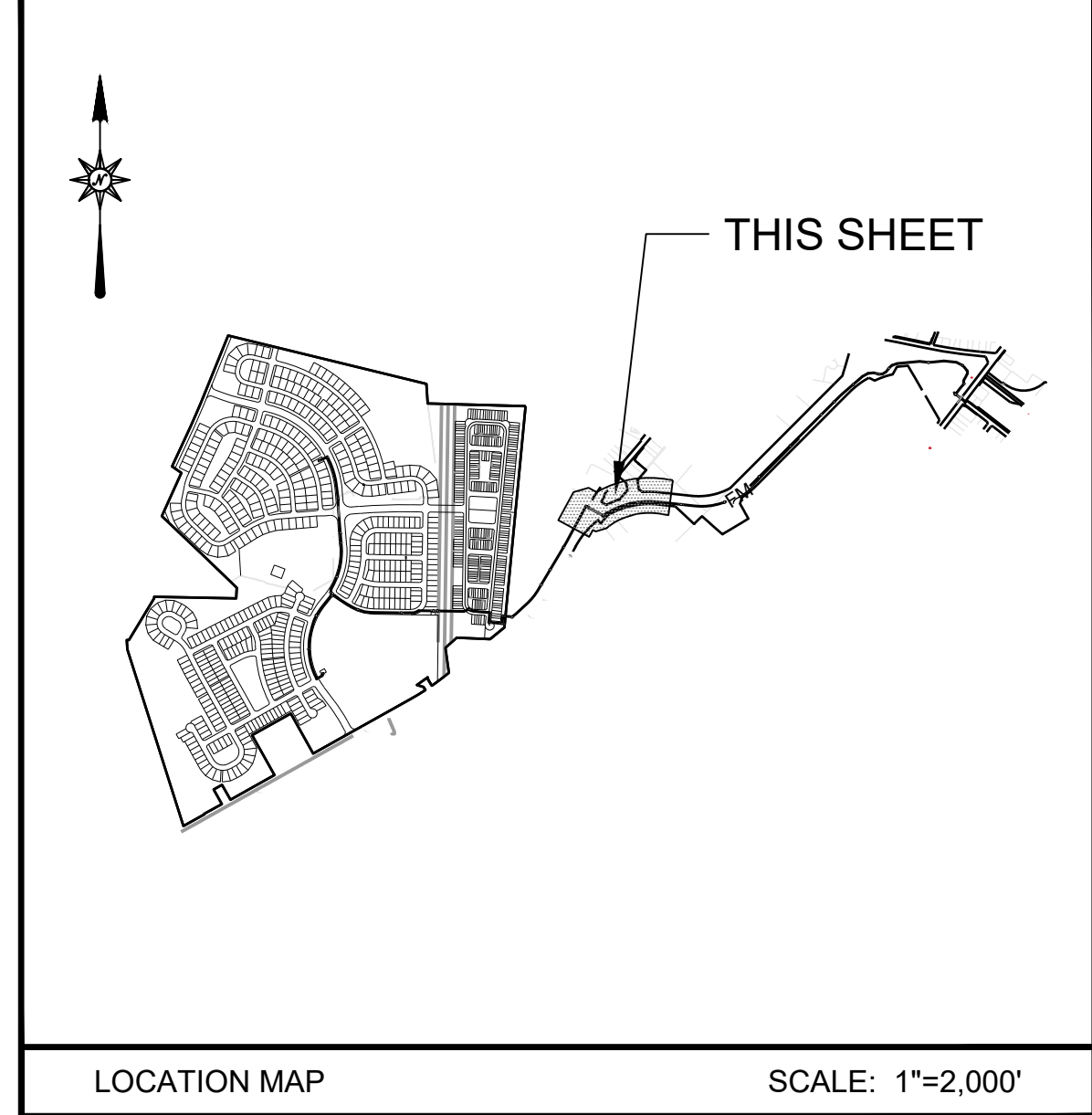
4-2-2026	MJK	3-25-2026	MJK	5-5-2025	checked	date
PER REVISED LAYOUT	PER DELDOT COORDINATION	PER DELDOT COMMENTS	invitations	SAVANNAH FARMS, INC. & SAVANNAH FARMS II, LLC 58 BLADES DRIVE DOVER, DE 19901		
SURVEY BY: ATWELL, LLC			SCALE: 1" = 50'			
DESIGNED BY: ATWELL, LLC			DATE: 10-15-2024 SHEET: 3 OF 8			
DRAWN BY: M.P.O.			DRAWING NO.: 3184 - OSFM03-08 - 03			
CHECKED BY: M.J.K.			DATE: 10-15-2024 SHEET: 3 OF 8			

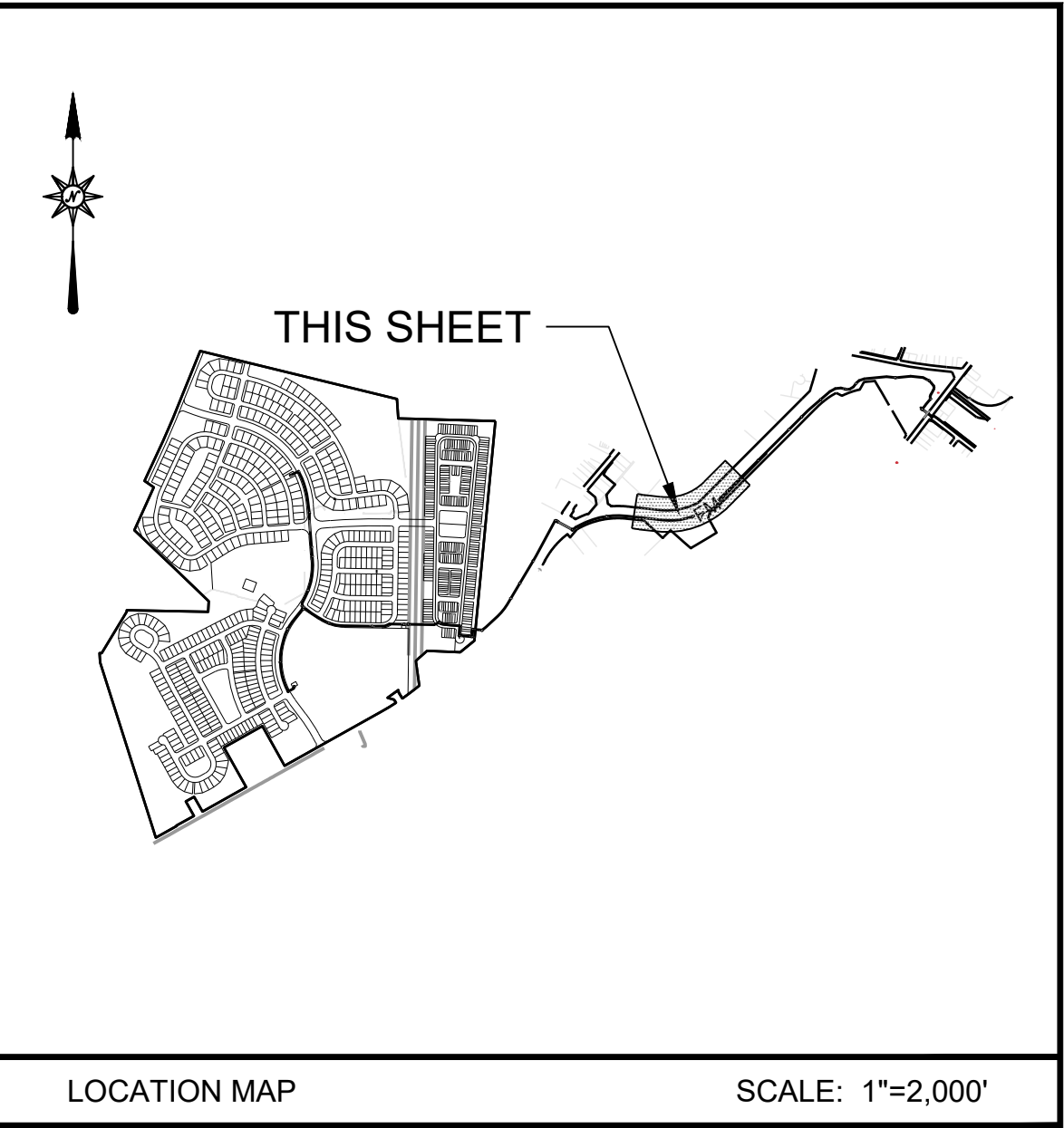
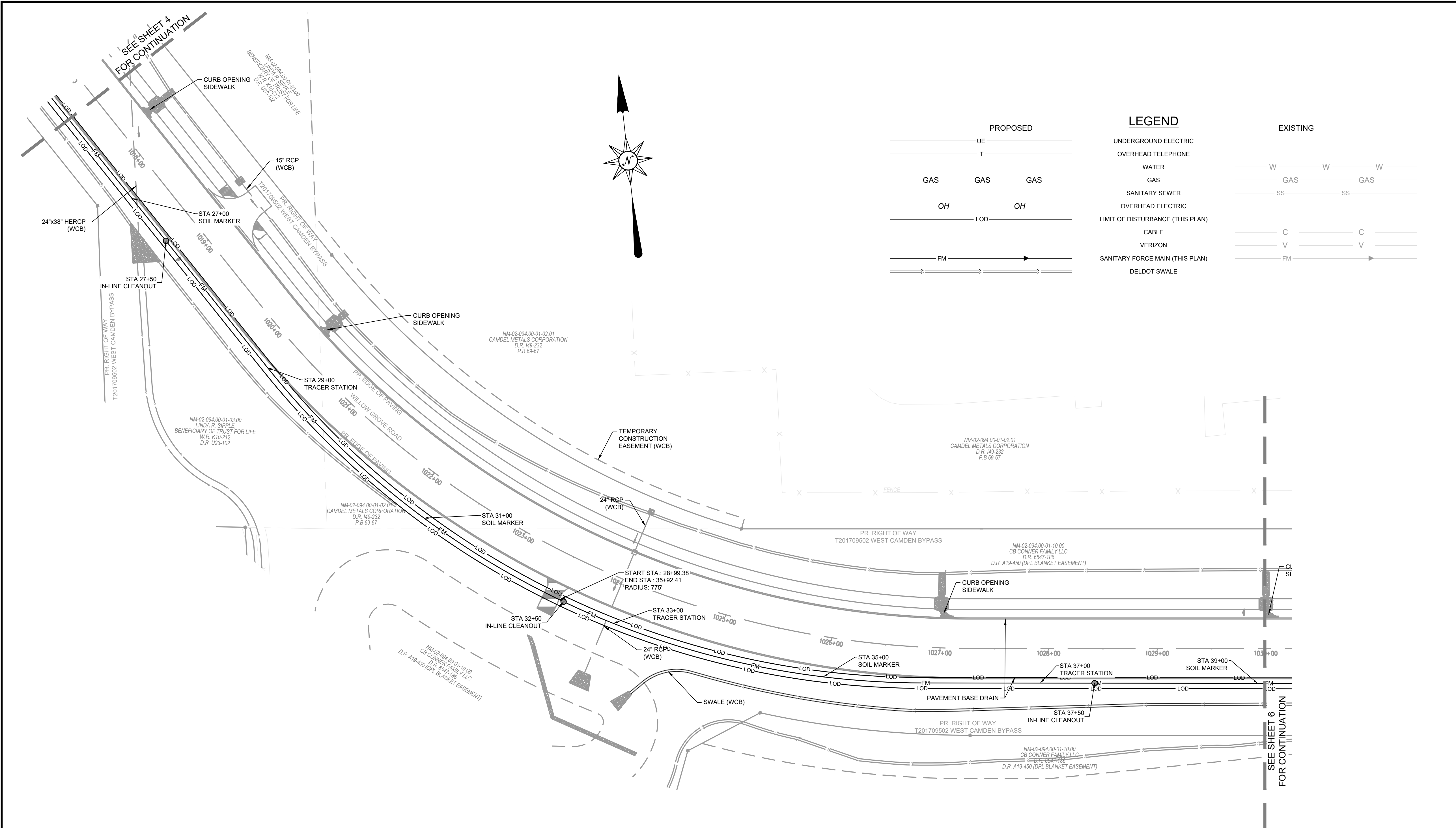
ATWELL
866.850.4200 www.atwell.com
17 POLLY DRUMMOND CENTER, SUITE 201
NEWARK, DE 19711
302.369.2900

OWNER: SAVANNAH FARMS, INC. & SAVANNAH FARMS II, LLC
PROPERTY ADDRESS: WILLOW GROVE RD
CAMDEN-WYOMING, DE 19934

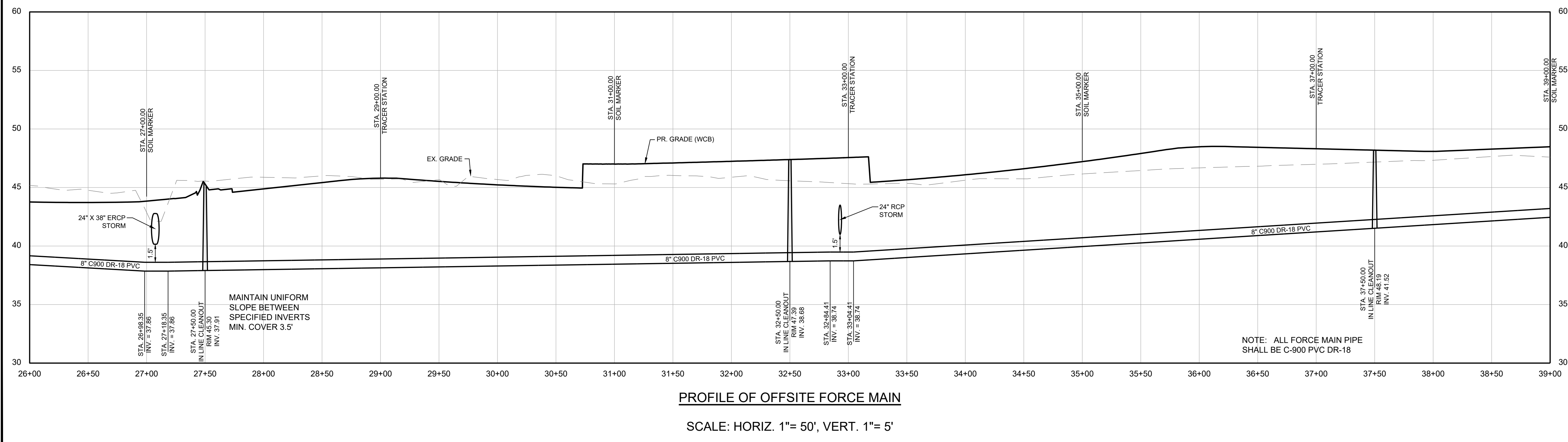
NO. 10284
DELAWARE
PROFESSIONAL SEAL

04-09-2026





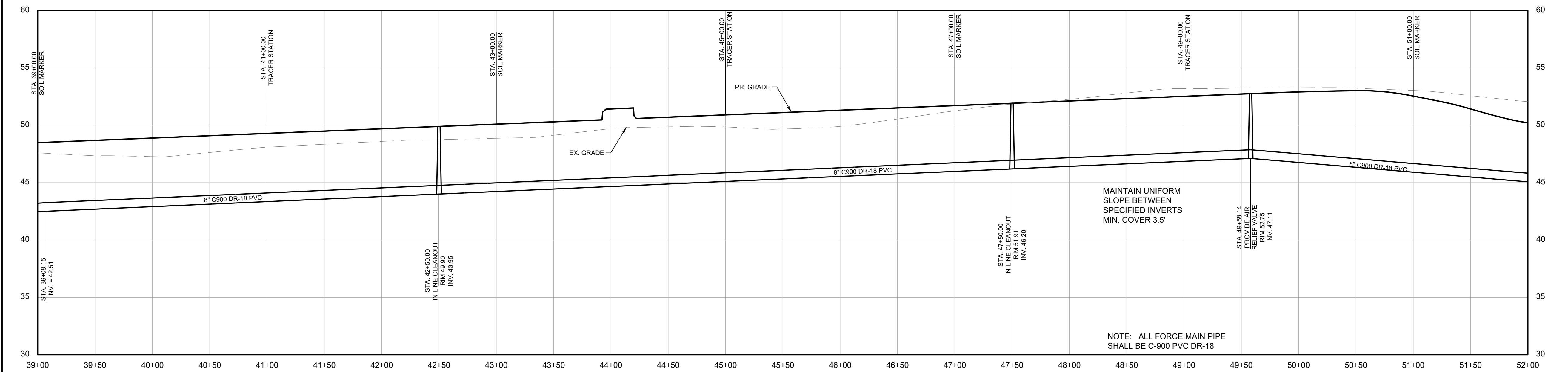
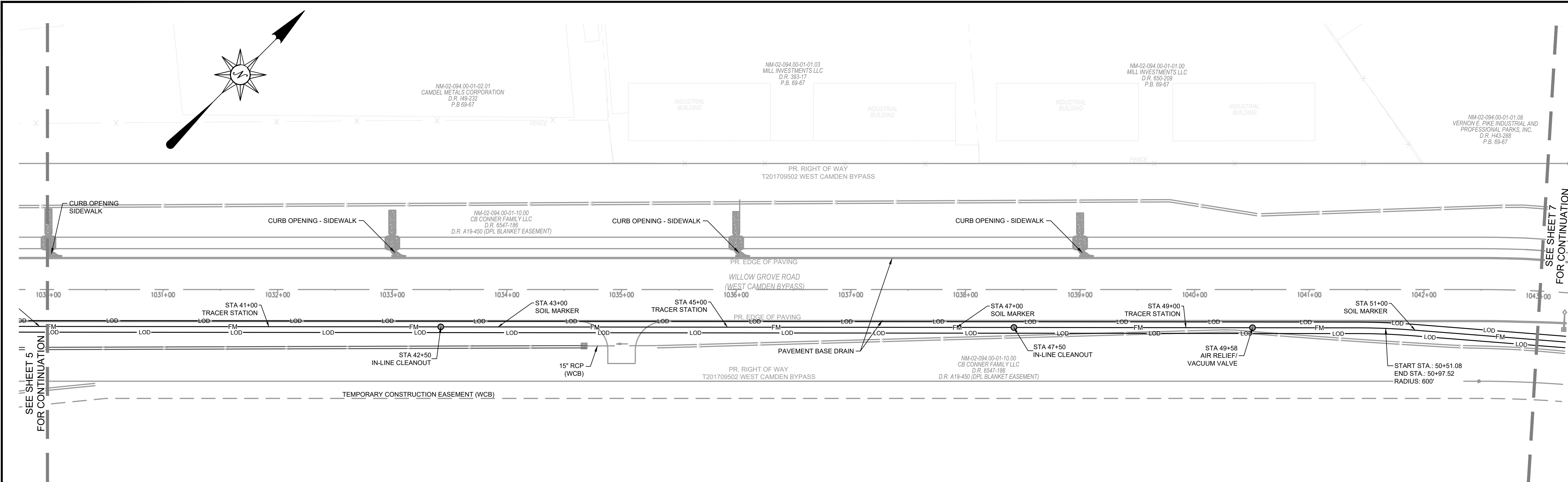
THE INSTALLATION OF THE PUMPING STATION
REQUIRES A SOIL TEST FOR THE FILL AREAS TO
CONFIRM COMPACTION TO 95% OF THE MAXIMUM
STANDARD T-99 DRY DENSITY



OFF-SITE SANITARY FORCE MAIN
CONSTRUCTION PLANS
FOR
SAVANNAH FARMS
SITUATE IN: TOWNS OF CAMDEN & WYOMING, KENT COUNTY, DELAWARE

4-2-2026	MJK	3-25-2026	MJK	5-5-2025	MJK	checked	date
PER REVISED LAYOUT	PER DELDOT COORDINATION	PER DELDOT COMMENTS	invitations	 ATWELL 866.850.4200 www.atwell.com 17 POLLY DRUMMOND CENTER, SUITE 201 NEWARK, DE 19711 302.369.2900 ** KARINS AND ASSOCIATES IS NOW OPERATING AS ATWELL, LLC **			
			OWNER: SAVANNAH FARMS, INC. & SAVANNAH FARMS II, LLC 58 BLADES DRIVE DOVER, DE 19901				
			PROPERTY ADDRESS: WILLOW GROVE RD CAMDEN-WYOMING, DE 19934				
				 <i>M. J. Karins</i> 04-09-2026			
				SURVEY BY: ATWELL, LLC DESIGNED BY: ATWELL, LLC DRAWN BY: M.P.O. CHECKED BY: M.J.K SCALE: 1" = 50'  DATE: 10-15-2024 SHEET: 5 OF 8 DRAWING NO.: 3184 - OSFM03-08 - 05			

CADD FILE: OSFM03-OSFM08.DWG - 4/20/26



PROFILE OF OFFSITE FORCE MAIN
SCALE: HORIZ. 1"= 50', VERT. 1"= 5'

PROPOSED

— UE —
— T —

— GAS — GAS — GAS —

— OH — OH —

— LOD —

— FM —

LEGEND

UNDERGROUND ELECTRIC
OVERHEAD TELEPHONE

WATER
GAS

SANITARY SEWER
OVERHEAD ELECTRIC

LIMIT OF DISTURBANCE (THIS PLAN)

CABLE
VERIZON

SANITARY FORCE MAIN (THIS PLAN)

DELDOT SWALE

EXISTING

— W — W — W —
— GAS — GAS —
— SS — SS —

— C — C —
— V — V —
— FM —

THIS SHEET

LOCATION MAP

SCALE: 1"=2,000'

**OFF-SITE SANITARY FORCE MAIN
CONSTRUCTION PLANS
FOR
SAVANNAH FARMS**

SITUATE IN: TOWNS OF CAMDEN & WYOMING, KENT COUNTY, DELAWARE

4-2-2026	MJK	3-25-2026	MJK	5-5-2025	date
PER REVISED LAYOUT	PER DELDOT COORDINATION	PER DELDOT COMMENTS	invitations	checked	date

OWNER:
SAVANNAH FARMS, INC. &
SAVANNAH FARMS II, LLC
58 BLADES DRIVE
DOVER, DE 19901

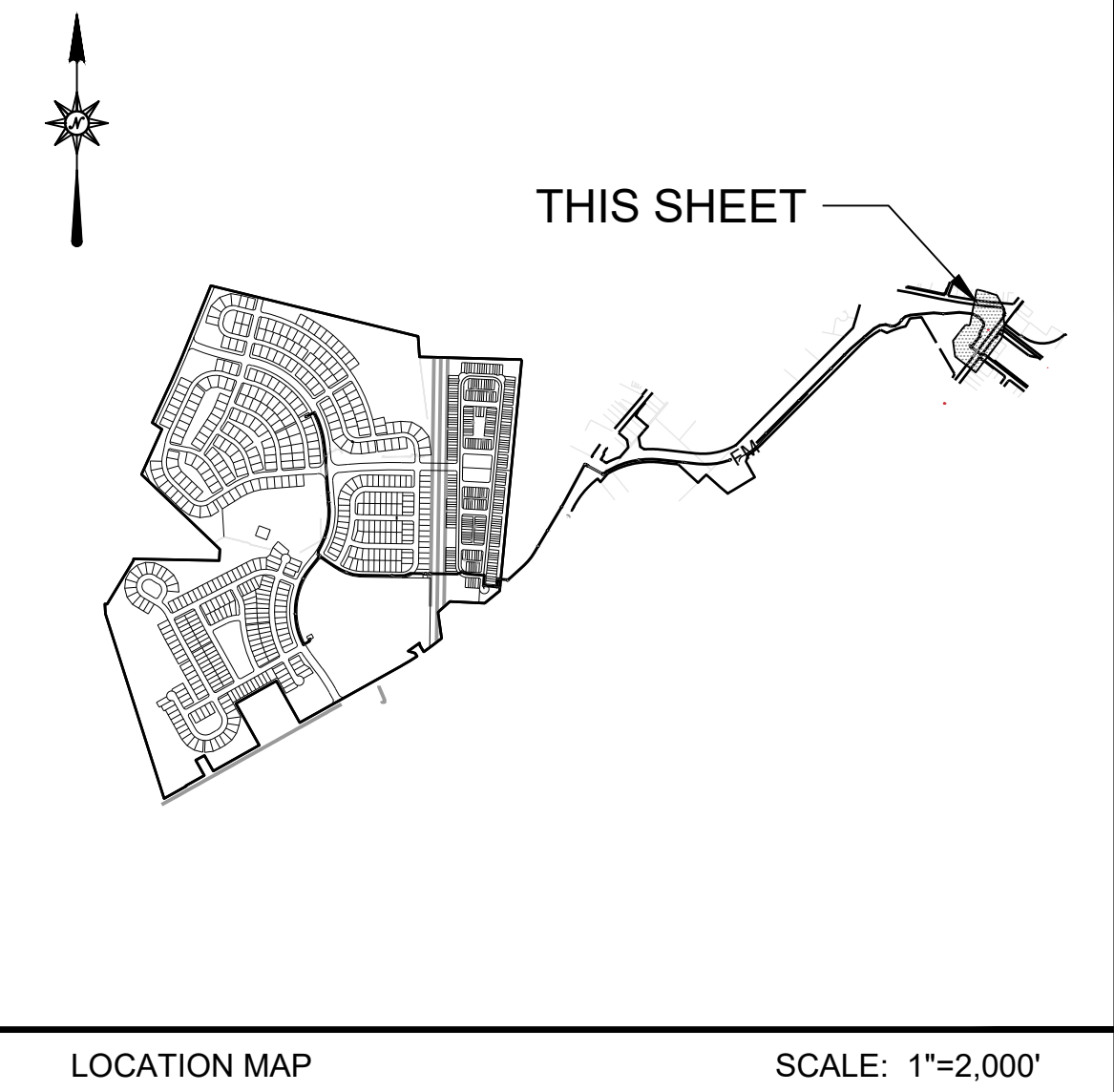
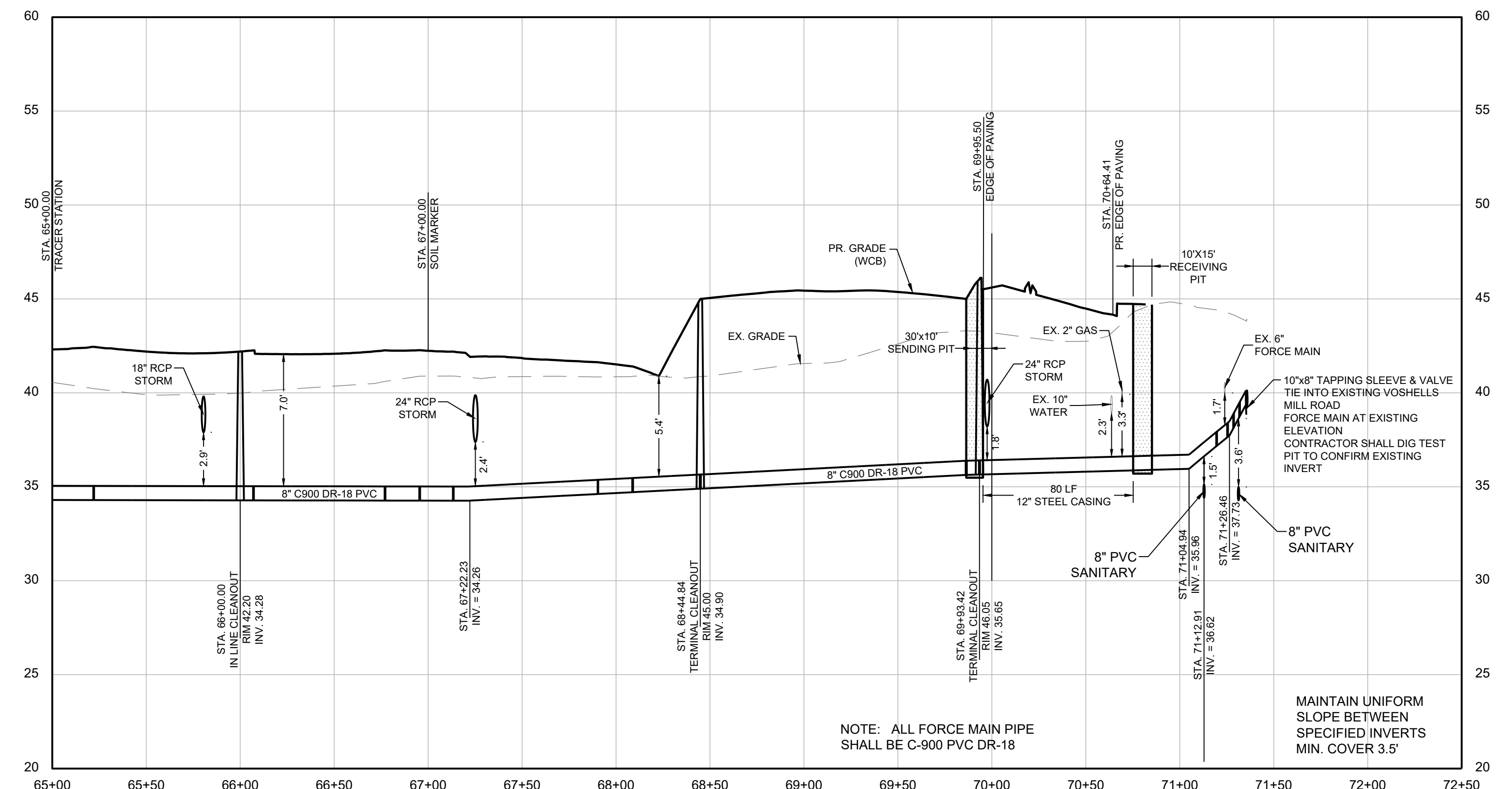
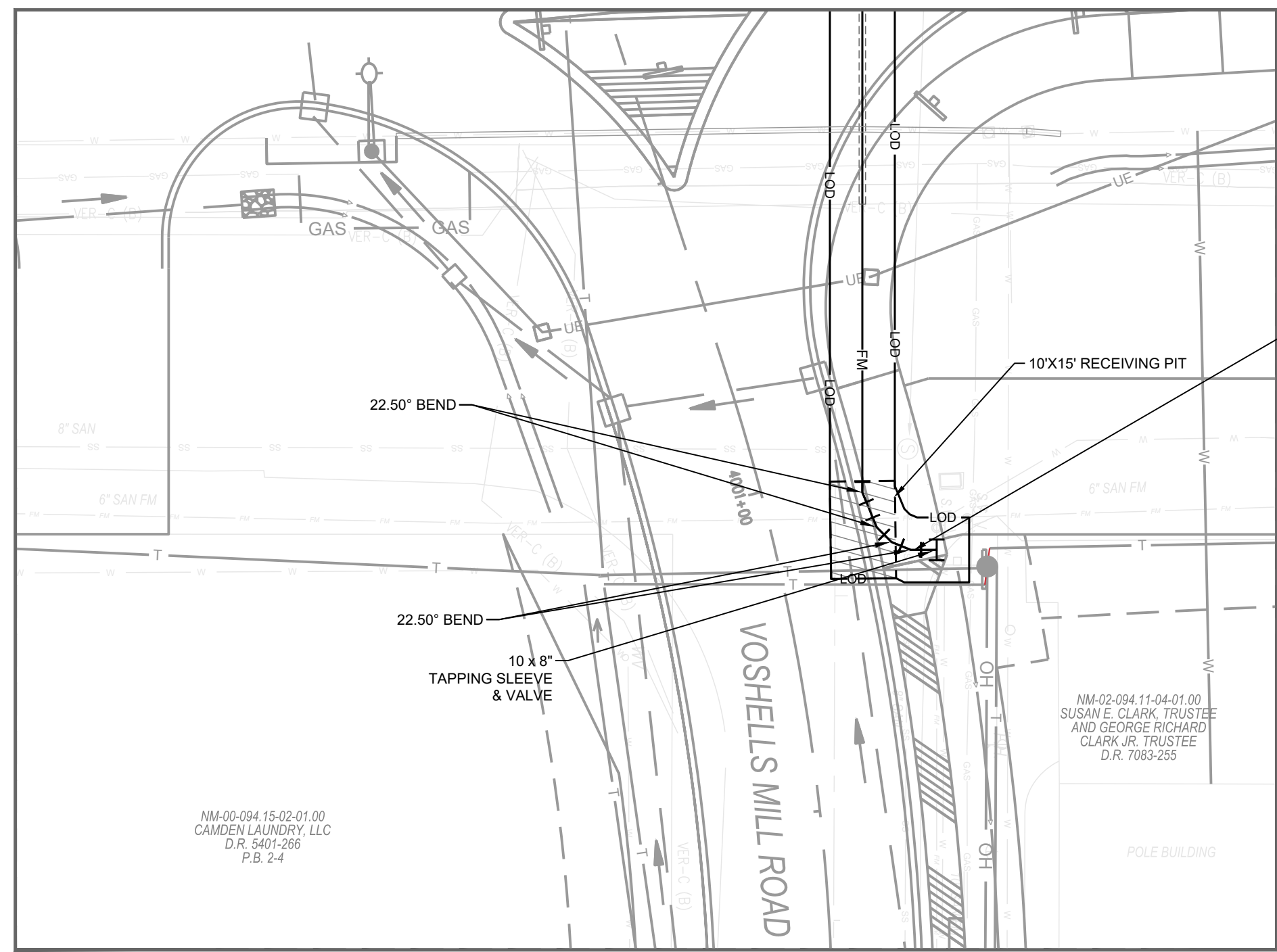
PROPERTY ADDRESS:
WILLOW GROVE RD
CAMDEN-WYOMING, DE 19934

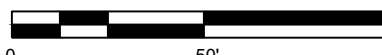
ATWELL
866.850.4200 www.atwell.com
17 POLLY DRUMMOND CENTER, SUITE 201
NEWARK, DE 19711
302.369.2900

SAVANNAH FARMS II, LLC
No. 10284
Professional Seal
04-09-2026

SURVEY BY: ATWELL, LLC	SCALE: 1" = 50'	
DESIGNED BY: ATWELL, LLC	0 50' 100'	
DRAWN BY: M.P.O.	DATE: 10-15-2024	SHEET: 6 OF 8
CHECKED BY: M.J.K	DRAWING NO.: 3184 - OSFM03-08 - 06	

S:\3184\Engineering\ACAD\B - Sanitary Sewer Plan\OFF-SITE FORCE MAIN\OSFM03-OSFM08.dwg, OSFM06, 4/9/2026 10:06:36 AM



OFF-SITE SANITARY FORCE MAIN CONSTRUCTION PLANS FOR <i>SAVANNAH FARMS</i> SITUATE IN: TOWNS OF CAMDEN & WYOMING, KENT COUNTY, DELAWARE					
4-8-2026	5-25-2026	5-6-2025	date	 ATWELL 866.556.4200 www.atwell.com 17 POLLY DRUMMOND CENTER, SUITE 201 NEWARK, DE 19711 302.369.2900 *** KARINS AND ASSOCIATES IS NOW OPERATING AS ATWELL, LLC ***	
MJK	MJK	MJK	checked		
PER DELDOT COORDINATION			PER DELDOT COMMENTS		
revisions				SCALE: 1" = 50' 	
SURVEY BY: ATWELL, LLC					
DESIGNED BY: ATWELL, LLC					
DRAWN BY: M.P.O.				DATE: 10-15-2024	SHEET: 8 OF 8
CHECKED BY: M.J.K				DRAWING NO.: 3184 - OSFM03-08 - 08	