PLANS OF PROPOSED IMPROVEMENTS FOR

2022

NORTH FOUR MILE CREEK TRUNK SEWER

URBAN STANDARD DETAILS FOR PUBLIC IMPROVEMENTS

ALL STANDARD DETAILS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT. THE FOLLOWING DETAILS ARE BROUGHT TO THE CONTRACTOR'S ATTENTION:

CONTROL CONTROL								
FIGURE NUMBER	NAME	DATE						
3010.101	TRENCH BEDDING AND BACKFILL ZONES	4-17-18						
3010.103	FLEXIBLE GRAVITY PIPE TRENCH BEDDING	4-20-21						
6010.301	CIRCULAR SANITARY SEWER MANHOLE	10-18-22						
6010.601	CASTINGS FOR SANITARY SEWER MANHOLES	4-21-20						
9040.102	FILTER BERM AND FILTER SOCK	10-17-17						
9040.119	SILT FENCE	10-21-14						

THIS PROJECT IS BUILT UNDER THE CONDITIONS OF THE ARMY CORPS OF ENGINEERS 404 PERMIT (CEMVR-RD-2022-1625)



26397

hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed

INDEX OF SHEETS

D. I PLAN AND PROFILE LEGEND & SYMBOL INFORMATION SHEET

A.2 LEGEND & SYMBOL INFORMATION SHEET

D.10 TRENCH CROSS SECTIONS SANITARY SEWER

D.2-D.9 PLAN AND PROFILE SHEETS - MAINLINE

G.1-G.3 REFERENCE TIES AND BENCHMARKS

J. I TRAFFIC CONTROL SHEET RR.1-RR.5 EROSION CONTROL

DESCRIPTION

1-5-2023 DATE

BLAIR A. SPOTTS, P.E. License Number: 26397 My license renewal date is DECEMBER 31, 2023

Pages or sheets covered by this seal: ALL SHEETS

CITY OF ANKENY

FOTH PROJECT NO.: 0022A004.00

LOCATION MAP

NOT TO SCALE

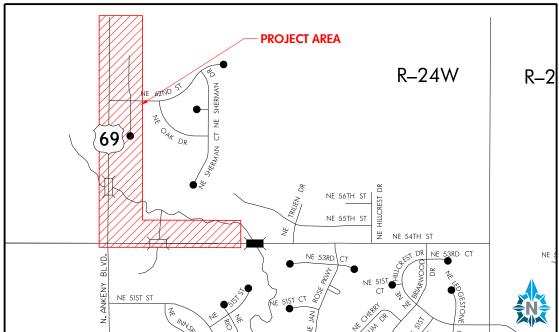
NUMBER

A. 1 TITLE SHEET

B.1-B.2 STANDARD DETAILS

C.1-C.3 ESTIMATE OF QUANTITIES

H.1-H.3 RIGHT OF WAY SHEETS



THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS, 2023 EDITION, AND THE CITY OF ANKENY SUPPLEMENTAL SPECIFICATIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT. DIVISION 1 SHALL NOT APPLY TO THIS PROJECT.

OWNER: CITY OF ANKENY

DON CLARK, P.E. 1210 NW PRAIRIE RIDGE DRIVE ANKENY, IA 50023 PHONE: (515)-963-3529

ENGINEER: **FOTH**

BLAIR A. SPOTTS, P.E. 8191 BIRCHWOOD COURT, SUITE L JOHNSTON, IA 50131 PHONE: (515)-254-1393



1-800-292-8989

www.iowaonecall.com





TABULATION OF UTILITIES

1**O2-13** 02-23-93

— ST.S —

— FO —

— F —

— в —

— F03 —

UTILITY LEGEND

Where public utility fixtures are shown as existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the owners of those utilities prior to the beginning of any construction. The Contractor shall afford access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which presently not known or shown. It is the Contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the Contractor for any interference or delay caused by such work.

The Contractor is required to utilize the utility One-Call service at (800) 292-8989 at least 48 hours prior to excavating anywhere on the project.

The following utility companies are known to have facilities on the project:

City of Ankeny - Public Works Tom Dozler 1210 NW Prairie Ridge Drive Ankeny, IA 50023 (515)-963-3527 (office) TDozler@Ankenylowa.gov

City of Ankeny - Sanitary Sewer
Roger McFarland
1210 NW Prairie Bidge Drive

1210 NW Prairie Ridge Drive Ankeny, IA 50023 (515)-965-6483 (office) rmcfarland@Ankenylowa.gov

City of Ankeny — W —
Shawn Buckner
1210 NW Prairie Ridge Drive
Ankeny, IA 50023

(515)-963-3524 (office) SBuckner@Ankenylowa.gov

Lumen

Austin Freeseman 2103 E. University Ave. Des Moines, Iowa 50317 (515)-263-7361 (office)

MidAmerican Matt Novy 3500 104th Street

(319)-215-0190 (mobile)

Austin.Freeseman@lumen.com

Urbandale, lowa 50322 (515)-242-4224 (office) matthew.novy@midamerican.com

Huxley Communications Terry Ferguson 102 N Main Ave

Huxley, IA 50124 (515)-597-2281 terry@huxleycommunications.net

IOWA 1-CALL# 1-800-292-8989

RIGHT OF WAY LEGEND

▲ Proposed Right of Way

Existing and Proposed Right of Way

Easement and Existing Right of Way

Borrow

Easement (Temporary)

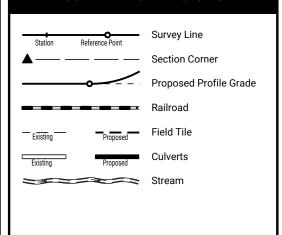
Easement

X Excess

Property Line

A/C Access Control

CONVENTIONAL SIGNS



SYMBOLS UNIQUE TO PROJECT

LEGEND AND INFORMATION SHEET

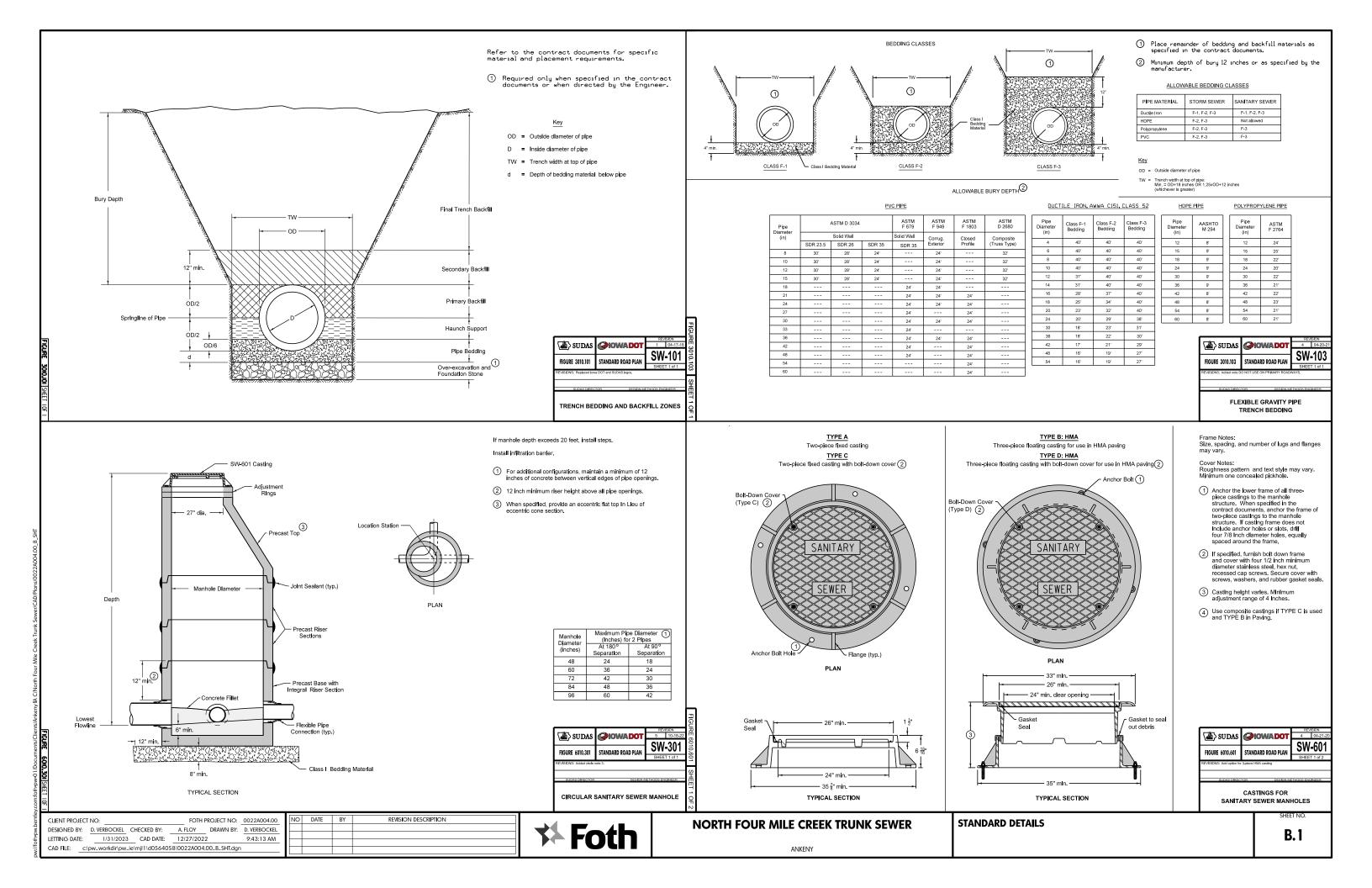
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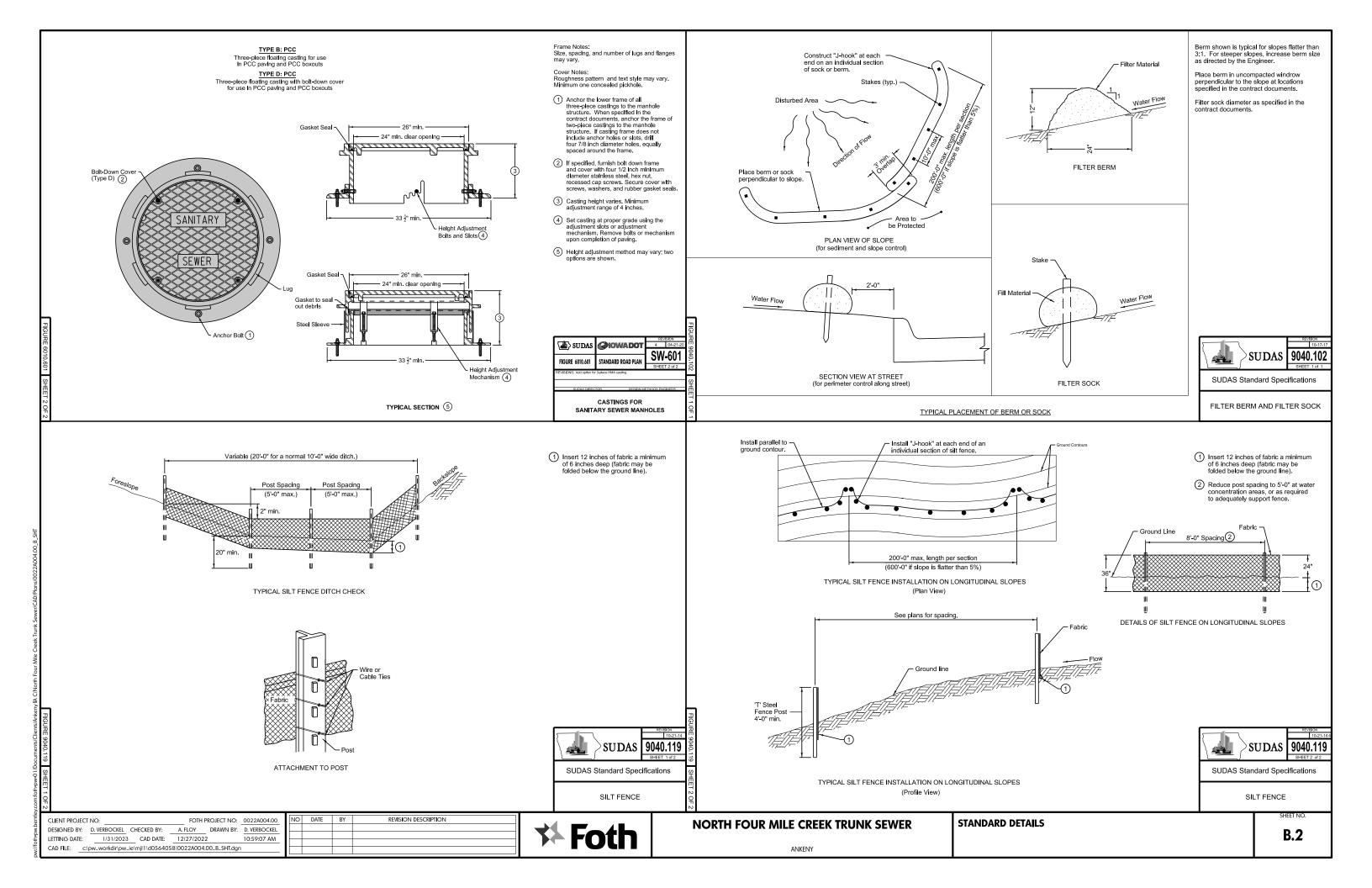
A.2

NO DATE BY REVISION DESCRIPTION



NORTH FOUR MILE CREEK TRUNK SEWER





100-0A 10-28-97

ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty
DIVISION 1 -	GENERAL				
		NOT USED			
DIVISION 2 - E	ARTHWORK				
2.1	2010-C-1000	CLEARING AND GRUBBING	ACRE	7.3	
DIVISION 3 - T	RENCH AND TRENCH	LESS CONSTRUCTION			
		NOT USED			
DIVISION 4 - S	SEWERS AND DRAINS				
4.1	4010-A-1118	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 18 IN.	LF	420	
4.2	4010-A-1130		LF	2291	
4.3	4010-A-2130	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 30 IN.	LF	1382	
4.4	4010-B-2130	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 30 IN.	LF	110	
DIVISION 5 - W	NATERMAINS AND API	PURTENANCES			
		NOT USED			
TVTSTON 6 - S	TRUCTURES FOR SAI	NITTARY AND STORM			
6.1		MANHOLE, SANITARY SEWER, SW-301, 60 IN.	EA	13	
6.2		CONNECTION TO EXISTING SANITARY MANHOLE	EA	13	
DIVISION 7 - S	STREETS AND RELAT				
		NOT USED			
DIVISION 8 - T	RAFFIC CONTROL				
	8030-A-1000	TRAFFIC CONTROL	LS	1	
DIVISION 9 - S	SITE WORK AND LAN	DSCAPING			
9.1	9010-A-1100	CONVENTIONAL SEEDING & FERTILIZING TYPE 2 (PERMANENT COOL SEASON MIXTURE)	ACRE	6.5	
9.2	9010-A-1107	, , , , , , , , , , , , , , , , , , , ,	ACRE	0.8	
9.3	9010-A-1104		ACRE	7.3	
9.4	9010-A-1110	MULCHING, BONDED FIBER MATRIX	ACRE	14.6	
9.5	9040-D-1000	FILTER SOCK, INSTALLATION	LF	2500	
9.6	9040-D-3000	FILTER SOCK, REMOVAL OF DEVICE	LF	2500	
9.7	9040-N-1000	SILT FENCE, INSTALLATION	LF	4000	
9.8	9040-N-3000	SILT FENCE, REMOVAL OF DEVICE	LF	4000	
9.9	SPECIAL	SURFACE RESTORATION HAUL ROUTES	LS	1	
DIVISION 10 -	DEMOLTTTON				
		NOT USED			
DTV/TCTON 11	MISCELLANEOUS				
11.1	11010-A-1000	CONSTRUCTION SURVEY	LS	1	
11.1	11010-A-1000 11020-A-1000		LS	1	
1116	21020 A 1000	1 NOTE LED II LOIT	LJ		

ESTIMATE REFERENCE INFORMATION

DIVISION 2 - EARTHWORK CLEARING & GRUBBING 2.1 2010-C-1000 Refer to RR Sheets for disturbance limits. Disturbance limits are equal to the seeding limits. Areas outside of seeding limits shall not be disturbed. Burning will not be allowed. Wood chips shall be hauled off site. Incidental to this item is the removal of all rock, debris, tree trimming, tree stumps and abandoned utilities encountered during construction. Contractor shall be responsible for protecting utility poles and lines during tree removal and trimming activities. Coordinate with the City at least 7 days in advance of any construction requiring the removal of signs. Item includes removal of all riprap and granular material as denoted in the plans.

IVISION	3	-	TRENCH	AND	TRENCHLESS	CONSTRUCTION

(NOT USED)

DIVICION A CELIEDE AND DRAING

Item Code

Item No.

JIVISIUN 4	- SEWERS AND DRA	ATINO	
4.1	4010-A-1118	SANITARY SEWER GRAVITY MAIN,	TRENCHED, PVC, 18 IN.
4.2	4010-A-1130	SANITARY SEWER GRAVITY MAIN,	TRENCHED, PVC, 30 IN.

Refer to D-sheets for locations and details. PVC pipe shall meet the requirements of Section 4010, Part 2.01 D. Compact to a minimum of 95% Standard Proctor Density. The Contractor will provide density testing. These items also included granular bedding and backfill material to a minimum of 1.0 foot above the top of pipe. unit price includes all concrete collars and vertical pipe supports. Unit price includes, but is not limited to, trench excavation, dewatering, furnishing bedding material, waterstops, placing bedding and backfill material, wyes and other fittings, pipe joints, testing, and inspection. Water stops shall be included

Description

in accordance with detail 3010.904. Refer to B-sheets. Removing and disposing of non-desirable backfill material and replacing with suitable material from elsewhere on the project site is considered incidental to this item. Unit price includes video inspection of sanitary sewer line. Video inspection shall be in accordance with Section 4060 of the Urban Standard Specifications.

SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 30 IN. 4010-A-2130 4.4 4010-B-2130

SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 30 IN.

Refer to D-Sheets for locations and details. Items shall be installed per SUDAS Section 3040 Trenchless methods shall be Auger Boring, Open-Ended Pipe Ramming, or Pipe Jacking. Horizontal tolerance shall

be +/-1.0 ft per 100 ft. Vertical tolerance shall be +/-0.2 ft up to 100 feet; an additional +/-0.1 foot per 100 feet thereafter. Backfall or sags in pipes are not allowed.

Steel casing inside diameter shall be 42-inches and have a minimum wall thickness of 0.344-inches.

Contractor shall fill annular space between the carrier and casing pipe with CLSM. Unit price includes furnishing and installing both carrier pipe and casing pipe; trenchless installation materials and equipment; pit excavation; dewatering; and placing and compacting backfill material; casing spacers; furnishing and installing annular space fill material; pipe connections; testing; and inspection. incidental to this item. Gasketed pipes and connections to existing pipes are considered incidental to this bid item. Removing and disposing of non-desirable backfill material and replacing with suitable material from elsewhere on the project site is considered incidental to this item.

Unit price includes video inspection of sanitary sewer line. Video inspection shall be in accordance with Section 4060 of the Urban Standard Specifications. The Contractor will provide denisty testing.

DIVISION 6 - STRUCTURES FOR SANITARY AND STORM SEWER

6010-A-1060 MANHOLE, SANITARY SEWER, SW-301, 60 IN.

This item includes all material and equipment necessary for excavation, placing bedding and backfill material, compaction, base, structural concrete, reinforcing steel, Precast units (if used), chimney seals, castings, and adjustment rings. Refer to the D sheets for locations and B sheets for additional details. Compact trenches to 95% Standard Proctor density. Type A castings will be allowed. Cretex Pro-ring, or approved equal , expanded polyproplyene (EPP) adjustement rings are required. Sealant material will be required with EPP adjustment ring installation. The maximum height of adjustment rings allowed for manhole castings is 12 inches. Infi-shield unit-band molded barrier shield are required for all sanitary manholes with Type A castings.

6010-G-1000 CONNECTION TO EXISTING SANITARY MANHOLE

This bid item includes all material and equipment necessary to core out the existing structure wall and floor as necessary to connect new sanitary sewer. New opening shall be core drilled. Refer to tabulation in C-sheets and D-Sheets for location information. Refer to SUDAS section 6010, 3.05. Incidental to this item is the testing of the existing manhole.

Contractor to verify flowlines of existing sanitary prior to laying new pipe and core drilling. Notify Engineer if elevations differ from those in the plans.

DIVISION 7 - STREETS AND RELATED WORK

(NOT USED)

DIVISION 8 - TRAFFIC CONTROL

6.1

8030-A-1000

This bid item shall include all signs and barricades as detailed here on and as required by the engineer and all other work necessary to control traffic during construction. All traffic control signs shall be fluorescent orange VIP sheeting. All traffic control shall meet the requirements of the City of Ankeny and the Manual for Uniform Traffic Control Devices (MUTCD). Refer to Sheet J.1 for additional details.

100-44

10-29-02

100-4A 10-29-02

ESTIMATE REFERENCE INFORMATION

		ESTIMATE REFERENCE INFORMATION
Item No.	Item Code	Description
DIVISION 9	- SITEWORK AND	LANDSCAPING
9.1	9010-A-1100	CONVENTIONAL SEEDING & FERTILIZING, TYPE 2 (PERM. COOL SEASON MIX)
9.2	9010-A-1107	WETLAND SEEDING
		Prepare seed bed in accordance with SUDAS Section 9010. Use seed drill or
		approved slit seeding method. Broadcast seeding will not be allowed. Refer to RR Sheets for seeding locations.
		Seeding of disturbed areas beyond limits shown in plans shall be the responsibility of the Contractor
		and completed at no additional cost to the City. Wetland Seeding shall be placed in all wetland impact areas.
9.3	9010-A-1400	CONVENTIONAL SEEDING & FERTILIZING TYPE 4 (URBAN TEMPORARY MIXTURE)
	3020 A 2400	Item to be used at the direction of the Engineer to stabilize disturbed areas during periods outside of the
		specified seeding dates. Fertilizer will not be required. Use seed drill or approved slit seeding method.
		Broadcast seeding will not be allowed. Seeded area calculated to the limits of disturbed areas. Refer to RR
		Sheets for locations. Seeding of disturbed area beyond these limits shall be the responsibility of the
		Contractor and completed at no additional cost to the City.
9.4	9010-A-1110	MULCHING, BONDED FIBER MATRIX
		Install Bonded Fiber Matrix per Section 9010, 2.07B. Item includes quantity for temporary and permanent
		restoration of all areas within the construction limits as shown in the plans. Mulching areas
		outside the disturbance limits shall be responsibility of the Contractor at no additional cost to the City.
		Contractor shall provide mulch bags for quantity verification after each application.
9.5	9040-D-1000	FILTER SOCK, INSTALLATION
9.6	9040-D-3000	FILTER SOCK, REMOVAL OF DEVICE
		Item to be used at the direction of the Engineer.
9.7	9040-N-1000	SILT FENCE, INSTALLATION
9.8	9040-N-3000	SILT FENCE, REMOVAL OF DEVICE
		Refer to RR-Sheets for locations and details.
9.9	SPECIAL	SURFACE RESTORATION HAUL ROUTES
2,,2	JI ECIAL	Bid item includes all costs associated with delineating, maintaining, and restoring haul route to
		preconstruction conditions satisfactory to owner.
11 - MISCE 11.1	11010-A-1000	CONSTRUCTION SURVEY
11.1	TT0T0-Y-1000	This item shall be performed in accordance with SUDAS Section 11,010. Incidental to this item is all material
		and equipement required for survey and staking for construction.
		and equapement regulated for our regional Section 101 Constitute Long
11.2	11020-A-1000	MOBILIZATION
		This item shall be performed in accordance with SUDAS Section 11,020. This item will be lump sum, with
		partial payments equal to percentage of dollar amount paid on overall contract amount.

PROJECT NO:	0022A004.01	DESIGNED BY:	B. SPOTTS	NO)	DATE	BY	REVISION DESCRIPTION
PROJECT DATE: JANUARY 2023		CHECKED BY:	B. SPOTTS					
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SANITARY SEWER

4010-01 01-01-16

* Bid Item ** For SW-545

	SW-545	PIPE																
No.	Location Station and Offset	Type or Standard Road Plan*	RIM Grade	Bottom Well	Extension Length**	Notes	Line Number	Access	No.	Class "D"	Pipe Dia.	Bid Length FT	Design Length FT	Slope%	Inlet	Flow Lines	Pipe Profile Other Sheet No.	Notes
EX-1	+00.00	EXISTING	923.00	905.50		EXISTING		110	10		2.14				Elevation	Elevation	Elevation	
MH-2	2+54.94	SW-301	921.07	905.88		60" CIRCULAR TYPE 'C' CASTING	SA-1	EX-1	MH-2	PVC	30"	255.0	250.0	0.150%	906.4	906.0		
MH-3	6+55.45	SW-301	921.94	906.57		60" CIRCULAR TYPE 'C' CASTING	SA-2	MH-2	MH-3	PVC	30"	401.0	396.0	0.150%	907.1	906.5		
MH-4	9+85.45	SW-301	922.81	907.16		60" CIRCULAR TYPE 'C' CASTING	SA-3	MH-3	MH-4	PVC	30"	330.0	325.0	0.150%	907.7	907.2		
MH-5	12+49.77	SW-301	923.23	907.65		60" CIRCULAR TYPE 'C' CASTING	SA-4	MH-4	MH-5	PVC	30"	264.0	259.0	0.150%	908.1	907.8		
MH-6	15+14.09	SW-301	924.31	908.13		60" CIRCULAR TYPE 'C' CASTING	SA-5	MH-5	MH-6	PVC	30"	264.0	259.0	0.150%	908.6	908.2		
MH-7	17+81.05	SW-301	924.98	908.63		60" CIRCULAR TYPE 'C' CASTING	SA-6	MH-6	MH-7	PVC	30"	267.0	262.0	0.150%	909.1	908.7		
MH-8	19+31.13	SW-301	922.70	908.95		60" CIRCULAR TYPE 'C' CASTING	SA-7	MH-7	MH-8	PVC	30"	150.0	145.0	0.150%	909.4	909.2		
MH-9	22+75.00	SW-301	924.77	909.55		60" CIRCULAR TYPE 'C' CASTING	SA-8	MH-8	MH-9	PVC	30"	344.0	339.0	0.150%	910.1	909.6		
MH-10	25+33.27	SW-301	925.32	910.03		60" CIRCULAR TYPE 'C' CASTING	SA-9	MH-9	MH-10	PVC	30"	258.0	253.0	0.150%	910.5	910.2		
MH-11	29+32.87	SW-301	931.98	910.03		60" CIRCULAR TYPE 'C' CASTING	SA-10	MH-10	MH-11	PVC	30"	400.0	395.0	0.150%	911.2	910.6		
MH-12	33+57.87		936.36	910.75			SA-11	MH-11	MH-12	PVC	30"	425.0	420.0	0.150%	912.0	911.3		
		SW-301				60" CIRCULAR TYPE 'C' CASTING	SA-12	MH-12	MH-13	PVC	30"	425.0	420.0	0.150%	912.7	912.1		
MH-13	37+82.87	SW-301	938.05	912.19		60" CIRCULAR TYPE 'C' CASTING	SA-13	MH-13	MH-14	PVC	18"	420.0	415.0	0.200%	914.0	913.2		
1H-14	42+02.87	SW-301	941.17	913.52		60" CIRCULAR TYPE 'C' CASTING												
											TOTALS:							
											18" PVC	420.0	415.0					
											30" PVC	3783.0	3723.0					

PROJECT NO:	0022A004.01	DESIGNED BY:	B. SPOTTS	
PROJECT DATE	E: JANUARY 2023	CHECKED BY:	B. SPOTTS	
CAD DATE:	12/12/2022 2:04:42 PM	DRAWN BY:	B. SPOTTS	
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TABULATION OF UTILITIES

102-13 02-23-93

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— G —

— F03 —

UTILITY LEGEND

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City of Ankeny - Sanitary Sewer Roger McFarland 1210 NW Prairie Ridge Drive Ankeny, IA 50023 (515)-965-6483 (office)

rmcfarland@Ankenylowa.gov City of Ankeny

Shawn Buckner 1210 NW Prairie Ridge Drive Ankeny, IA 50023 (515)-963-3524 (office) SBuckner@Ankenvlowa.gov

Lumen Austin Freeseman 2103 E. University Ave. Des Moines, Iowa 50317 (515)-263-7361 (office) (319)-215-0190 (mobile)

Austin.Freeseman@lumen.com

MidAmerican Matt Novy 3500 104th Street Urbandale, Iowa 50322 (515)-242-4224 (office) matthew.novy@midamerican.com

Huxley Communications Terry Ferguson 102 N Main Ave Huxley, IA 50124

(515)-597-2281 terry@huxleycommunications.net

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS LINEWORK Design Color No. Green (2) Existing Topographic Features and Labels Blue (1) Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation Magenta (5) Existing Utilities SHADING Design Color No. Yellow Highlight for Critical Notes or Features Red Delineates Restricted Areas Temporary Pavement Shading Lavender Proposed Pavement Shading Gray, Light Gray, Med (80) Proposed Granular Shading Gray, Dark (112) Proposed Grade and Pave Shading "In conjunction with a paving project" Brown, Light (236) Grading Shading (8) Proposed Sidewalk Shading Proposed Sidewalk Landing Shading Blue, Light (11) Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS Design Color No. LINEWORK Green (2) Existing Ground Line Profile (1) Proposed Profile and Annotation Magenta Existing Utilities Blue, Light (230)Proposed Ditch Grades, Left Proposed Ditch Grades, Median Proposed Ditch Grades, Right

COMMON SY	MBOLOGY
Station Reference Point	Survey Line
A ————	Section Corner
	Ground Line Intercept
	Saw Cut
	Guardrail
•••••••••	HighTension Cable Guardrail
	Sheet Pile
Pavement Removal	Clearing & Grubbing Area

	RIGHT-OF-WAY LEGEND
•	Proposed Right-of-Way
	Existing Right of Way
	Existing and Proposed Right-of-Way
<u> </u>	Easement and Existing Right-of-Way
	Easement (Temporary)
•	Easement
A/C	Access Control
→ -	Property Line

DICHT OF WAY I FORNI

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

CLIENT PROJECT NO: FOTH PROJECT NO: 0022A004. DESIGNED BY: D.VERBOCKEL CHECKED BY: B. SPOTTS DRAWN BY: D. VERBOCK 11:13:37 AA LETTING DATE: TBD CAD DATE: 12/27/2022 CAD FILE: c:\pw_workdir\pw_ie\fvd_lsd1\d0564058\0022A004.00_D1_SHT.dqn

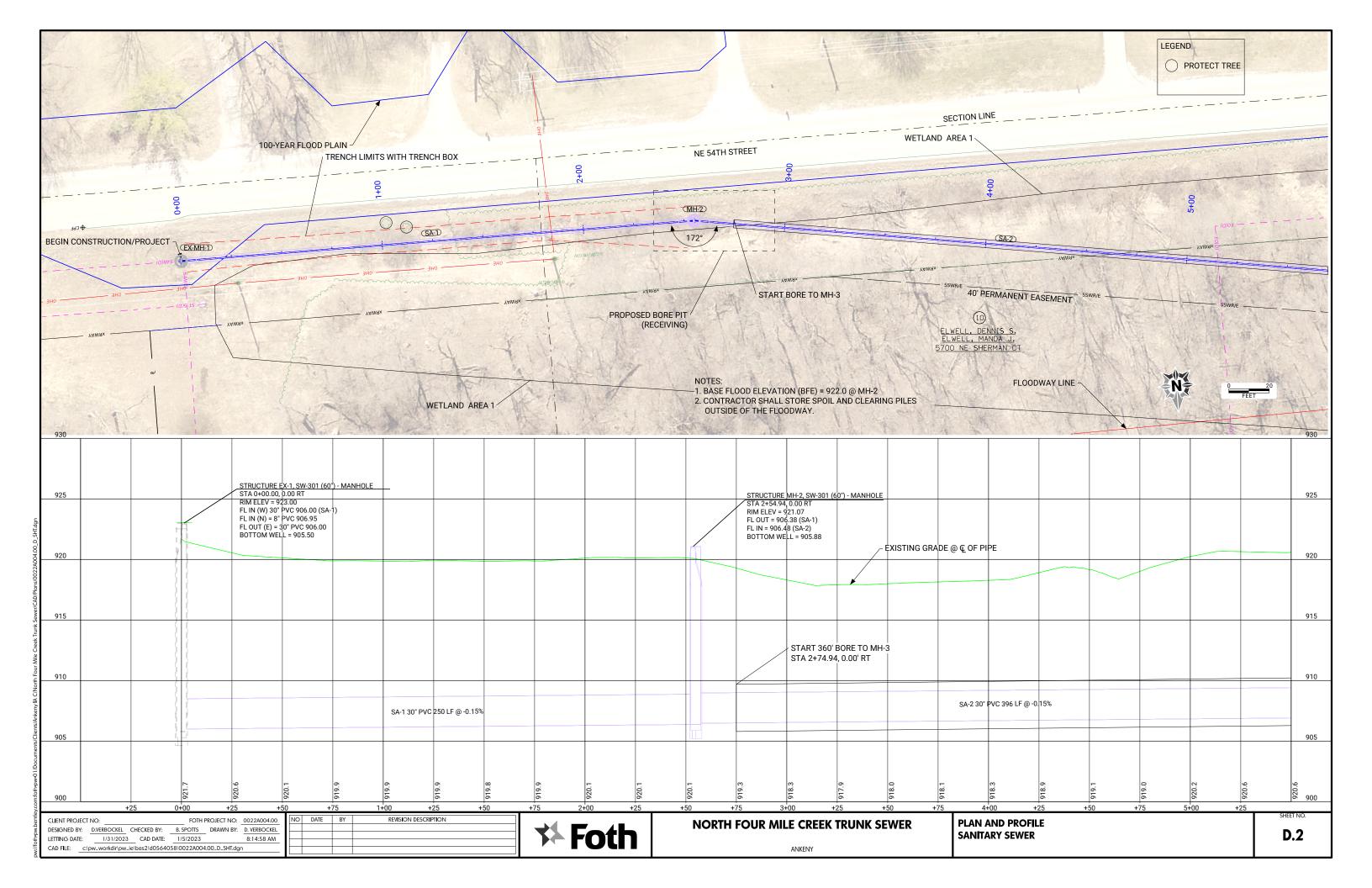
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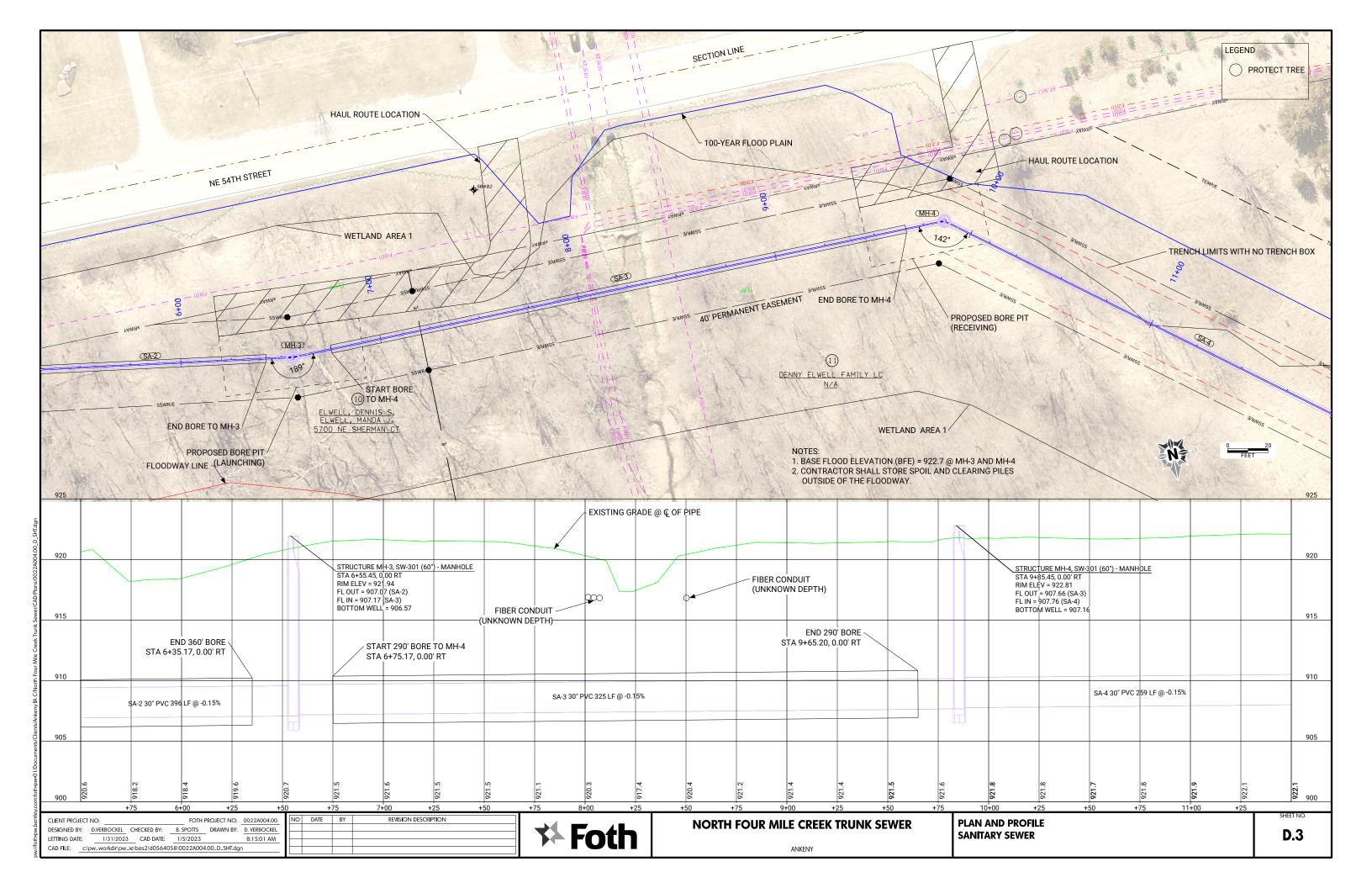


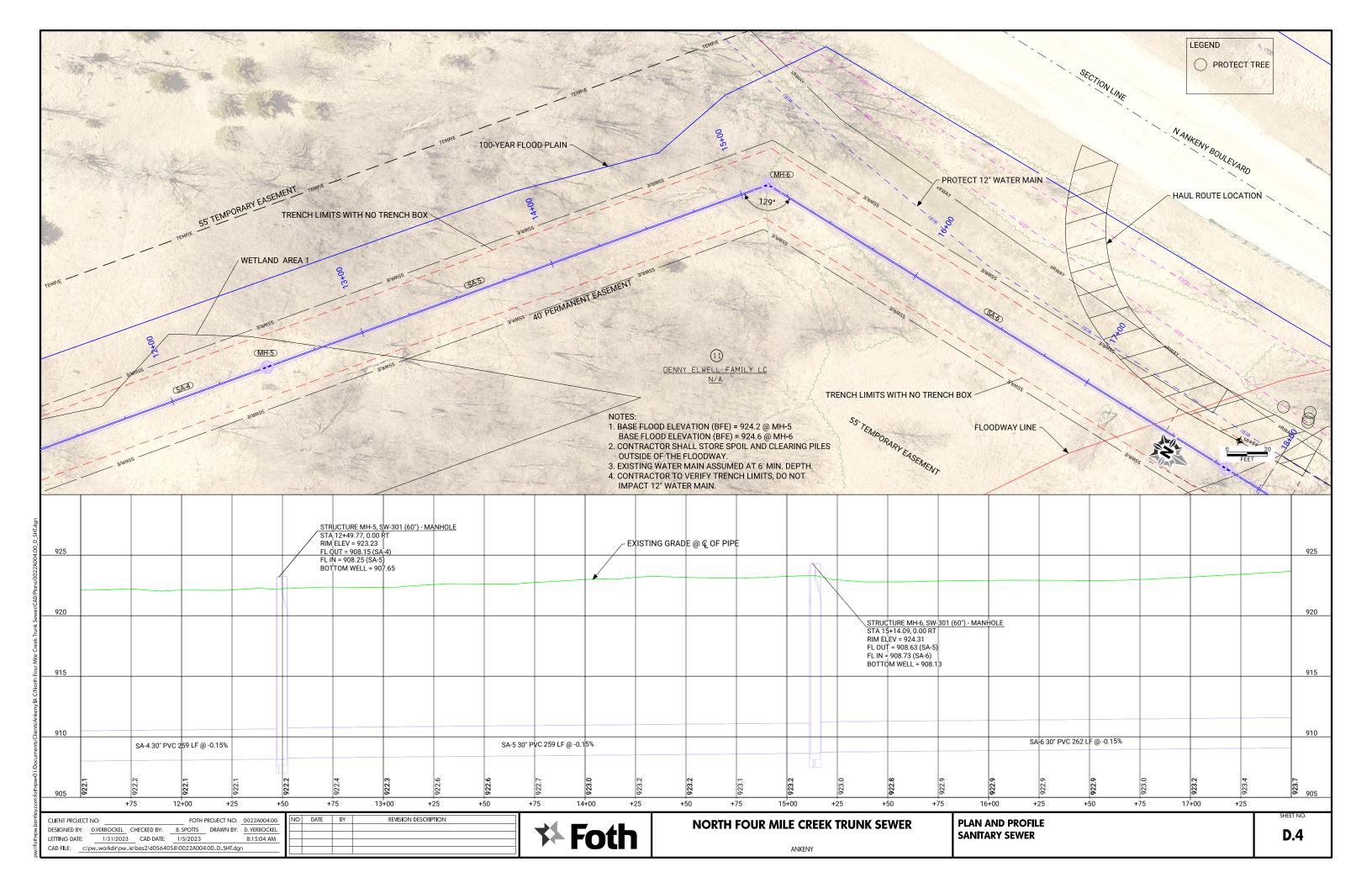
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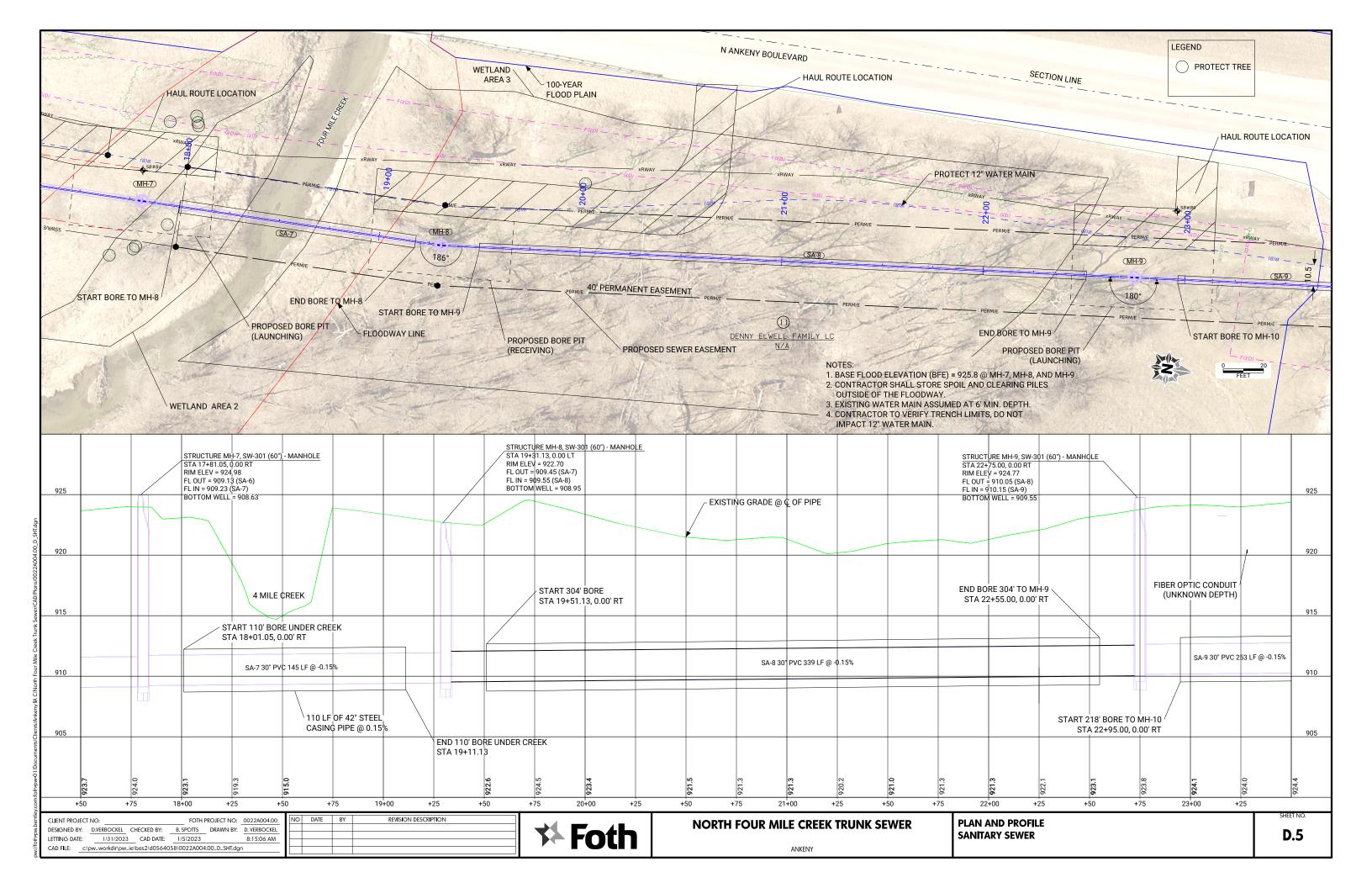
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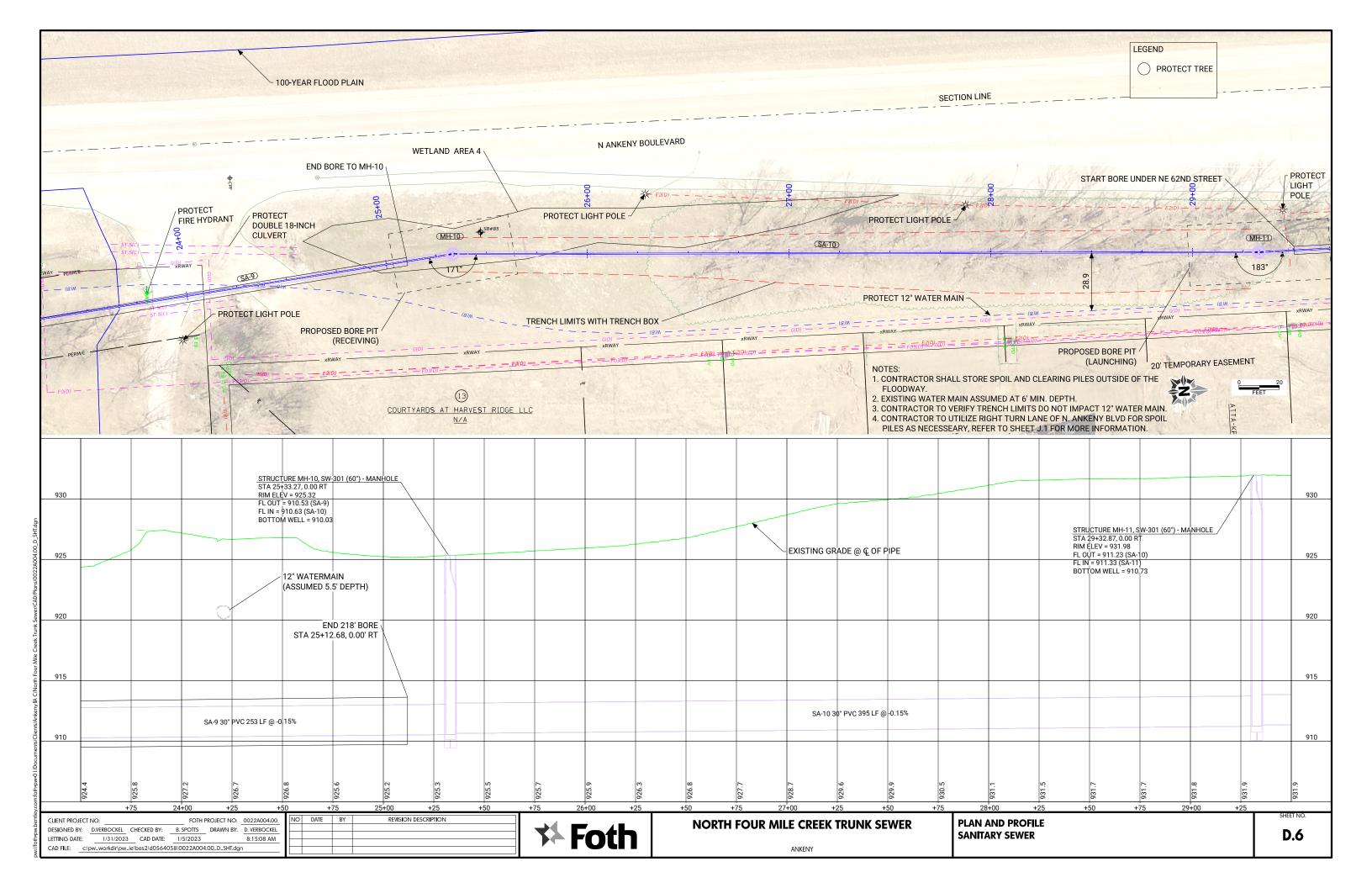
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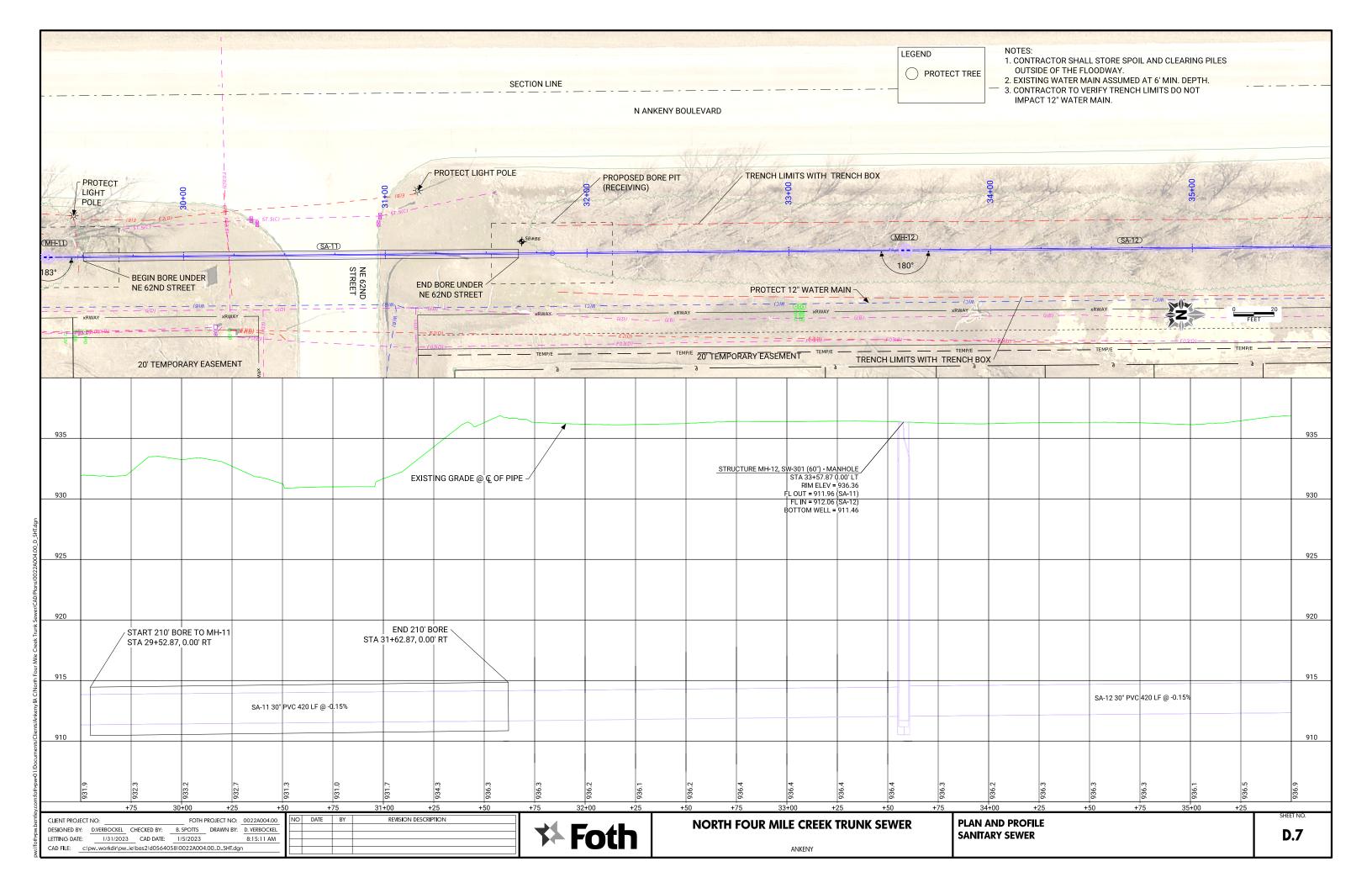


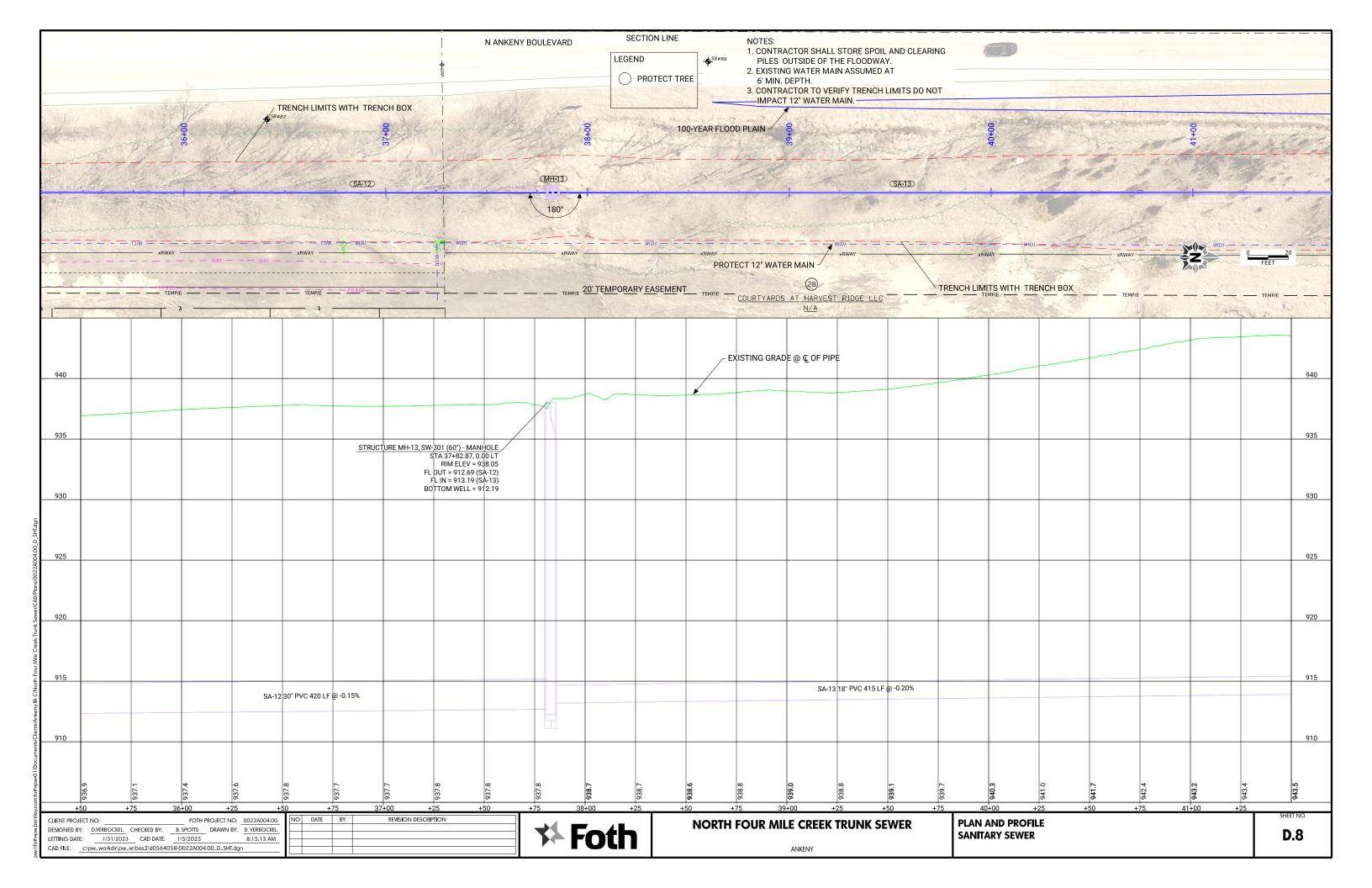


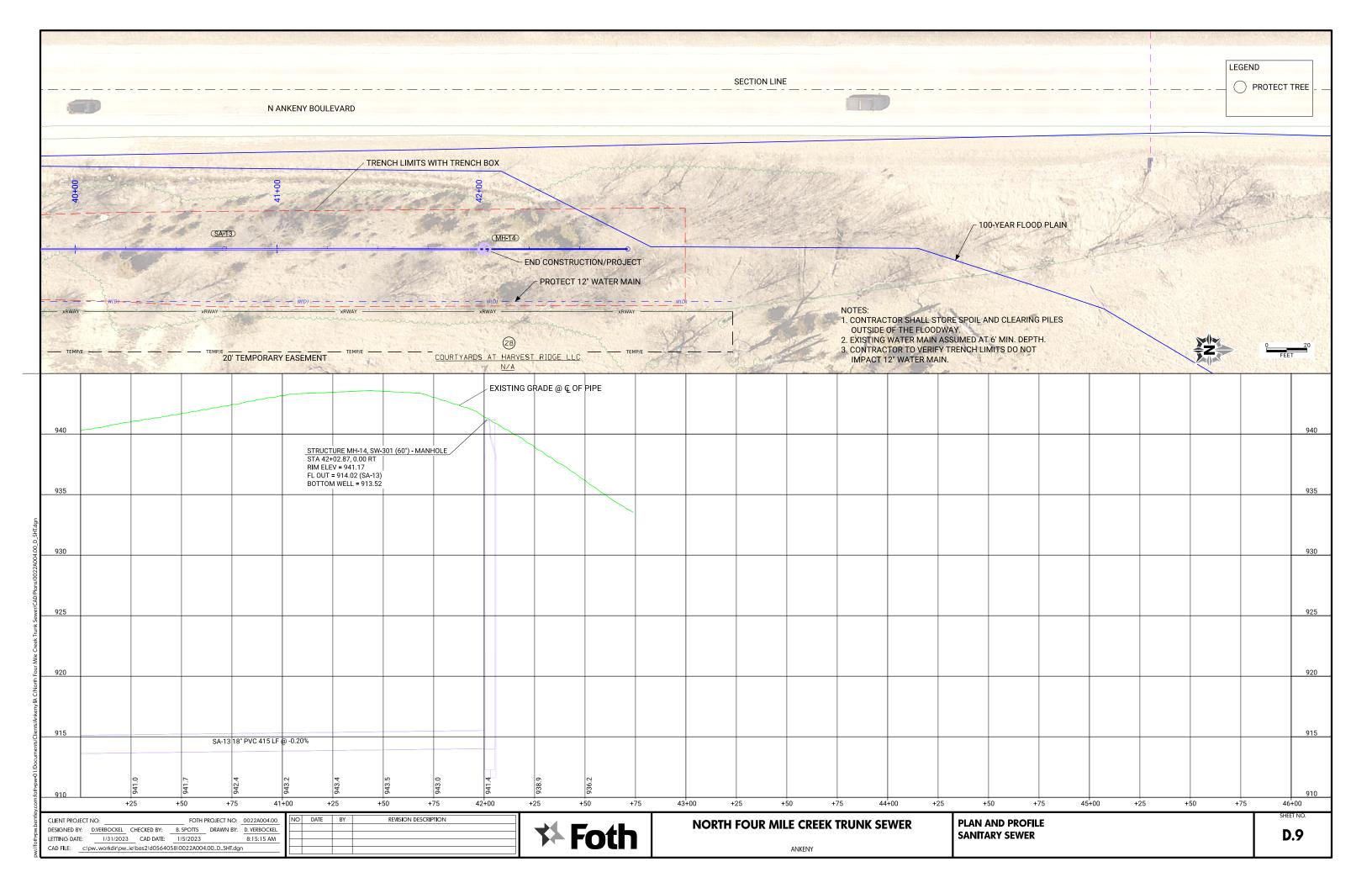


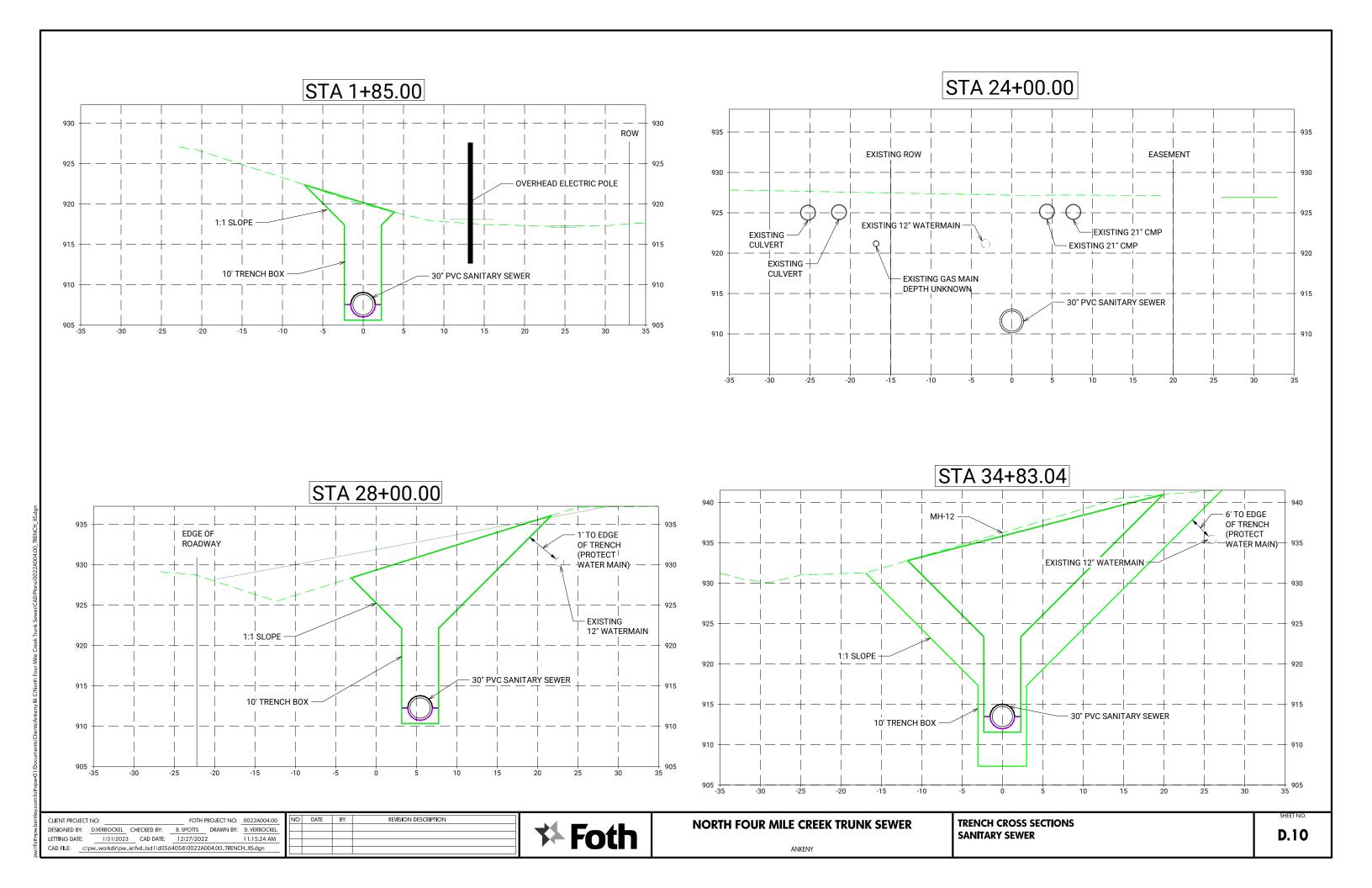












SURVEY INFORMATION NORTH FOUR MILE CREEK TRUNK SEWER NORTHEAST 54TH STREET AND NORTHEAST 14TH STREET ANKENY, IOWA

General Information

The horizontal datum for the project is Iowa RCS, Zone 8. All users of these plans must use the control point coordinates as noted when establishing horizontal locations. The reference ellipsoid used is WGS-84, the GEOID Model is GEOID 18, and coordinates are in US survey foot.

Vertical Control

Vertical Datum for this survey is relative to NAVD88 (computed using Geoid 18 for the derived orthometric elevations listed).

Horizontal Control

City of Ankeny, Iowa Iowa RCS, Zone 8 Horz. Datum: NAD83 (2011) Vert. Datum: NAVD88 **US Survey Feet** 2022

BENCHMARKS

HORIZONTAL CONTROL (REFER TO SHEET G.2 FOR LOCATIONS)

<u>Point</u>	Elevation	Description	Point	Northing	Easting	Elevation*	Station	Offset	<u>Feature</u>	Description
FENO 2	948.53	FENO MONUMENT IN WEST FENCE LINE OF NE 14TH STREET	CP 1	7557664.88	18531706.51	928.3	24+30.0	-54.3	CUT "X"	CUT "X" IN ASPHALT ON THE EAST SIDE OF
		APPROXIMATLY 350' SOUTH OF NE 126TH AVE.								OF NE 14TH STREET ON THE NORTH SIDE
BM1	936.24	CUT TRIANGLE AT SOUTHEAST CORNER OF NE 14TH STREET BRIDGE.								OF GRAVEL ENTRANCE.
			CP 2	7558967.44	18531712.00	-	37+27.8	-63.2	CUT "X"	CUT "X" IN ASPHALT ON THE EAST SIDE OF
										NE 14TH STREET ON LINE WITH FENCE
										AT NORTH PROPERTY LINE.
			CP 8	7556347.07	18533253.93	927.4	=	-	MAG NAIL	MAG NAIL IN FOG LINE IN ASPHALT ON THE
			*Elevatio	ons to be verified pri	or to construction					NORTH SIDE OF NE 54TH STREET
				· ·						350' WEST OF BRIDGE.

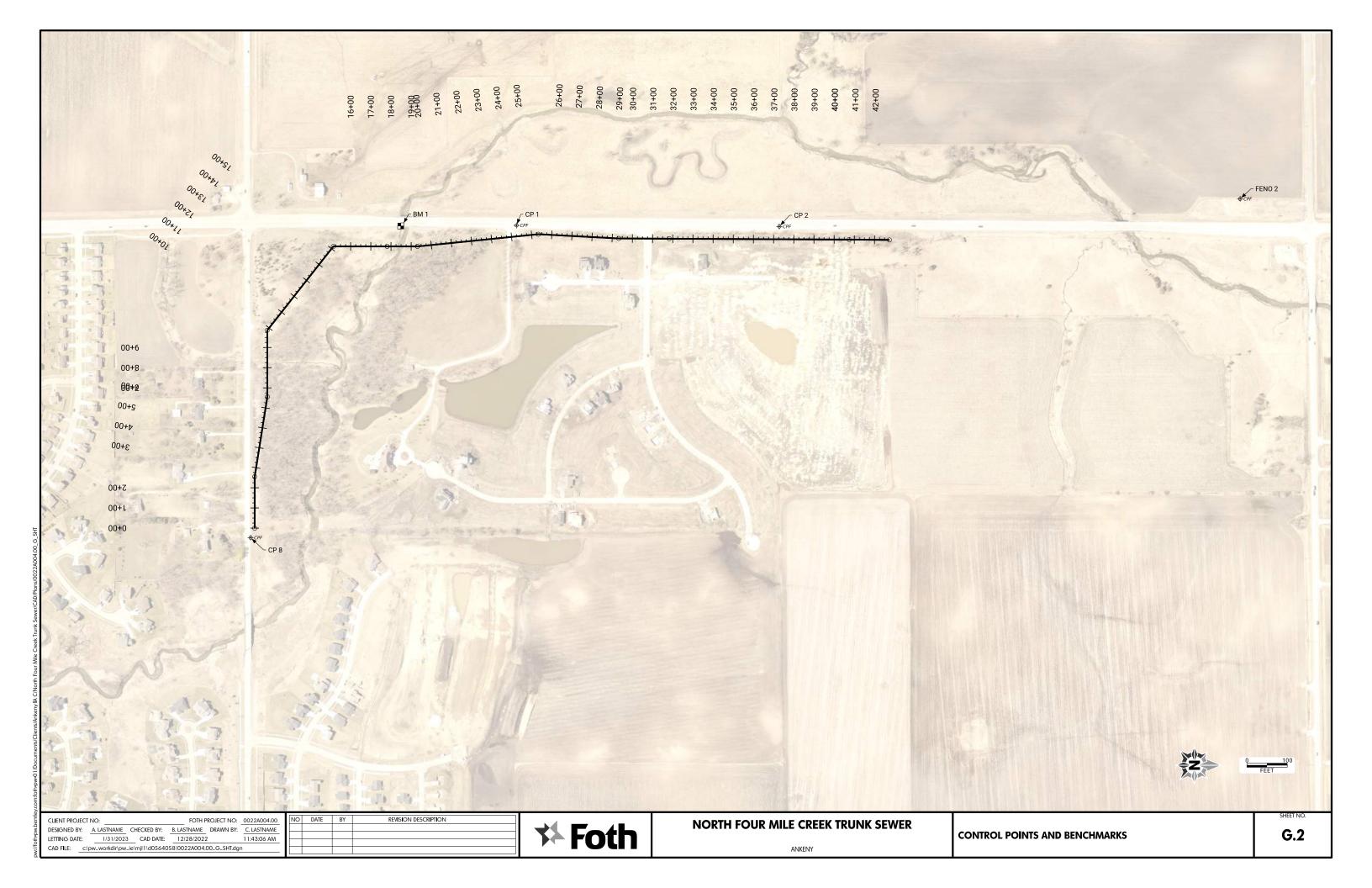
**Site Control executed Summer of 2021

CLIENT PROJECT	ROJECT NO:	0022A004.00				
DESIGNED BY:	A. LASTNAME	CHECKED BY:	B. LASTNAME DRAWN BY:		C. LASTNAME	
LETTING DATE:	1/31/2023	CAD DATE:	12/27/2022		9:44:08 AM	
CAD FILE: c:\pw_workdir\pw_ie\mil1\d0564058\0022A004.00_G_SHT.dan						

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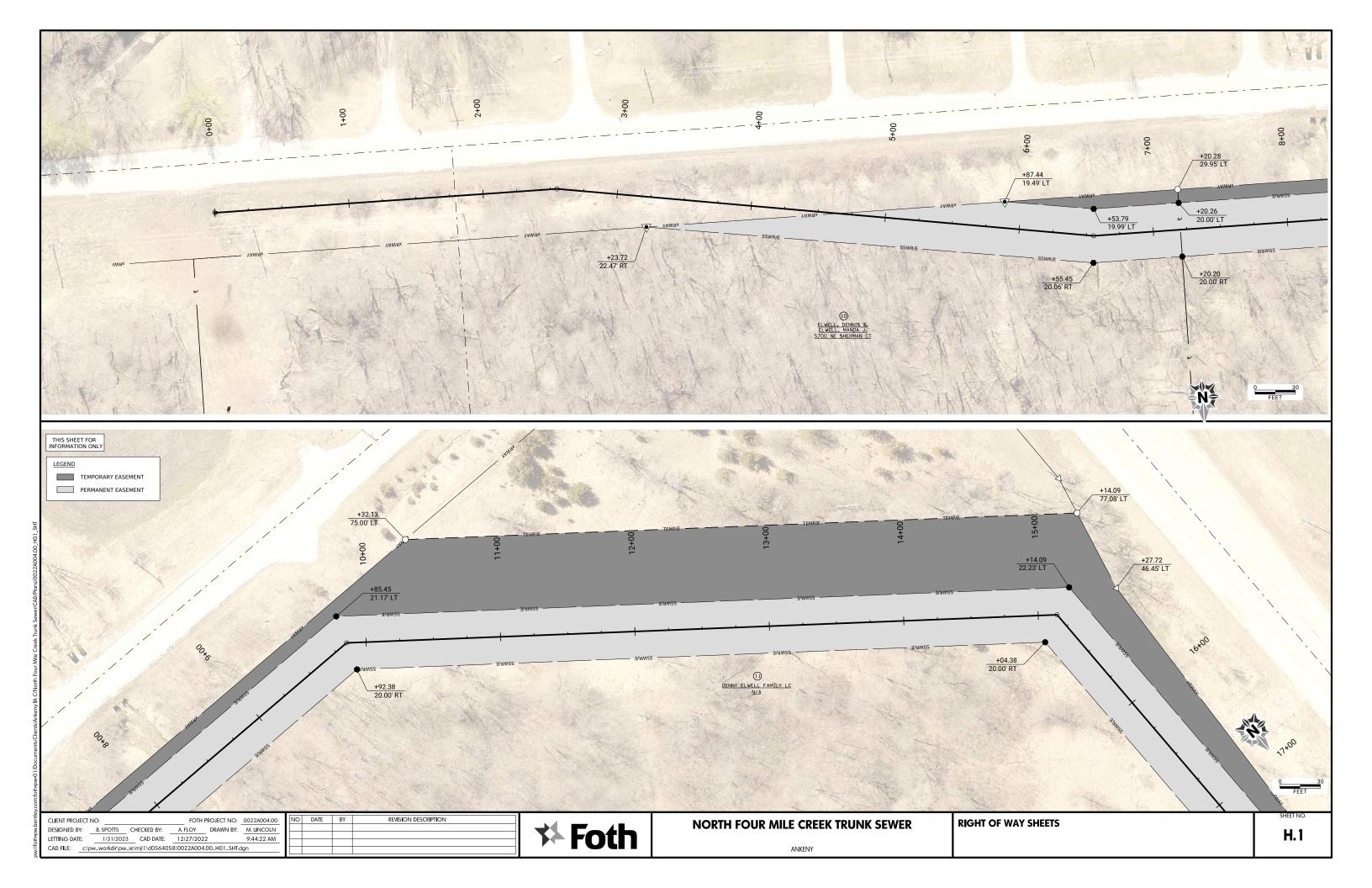


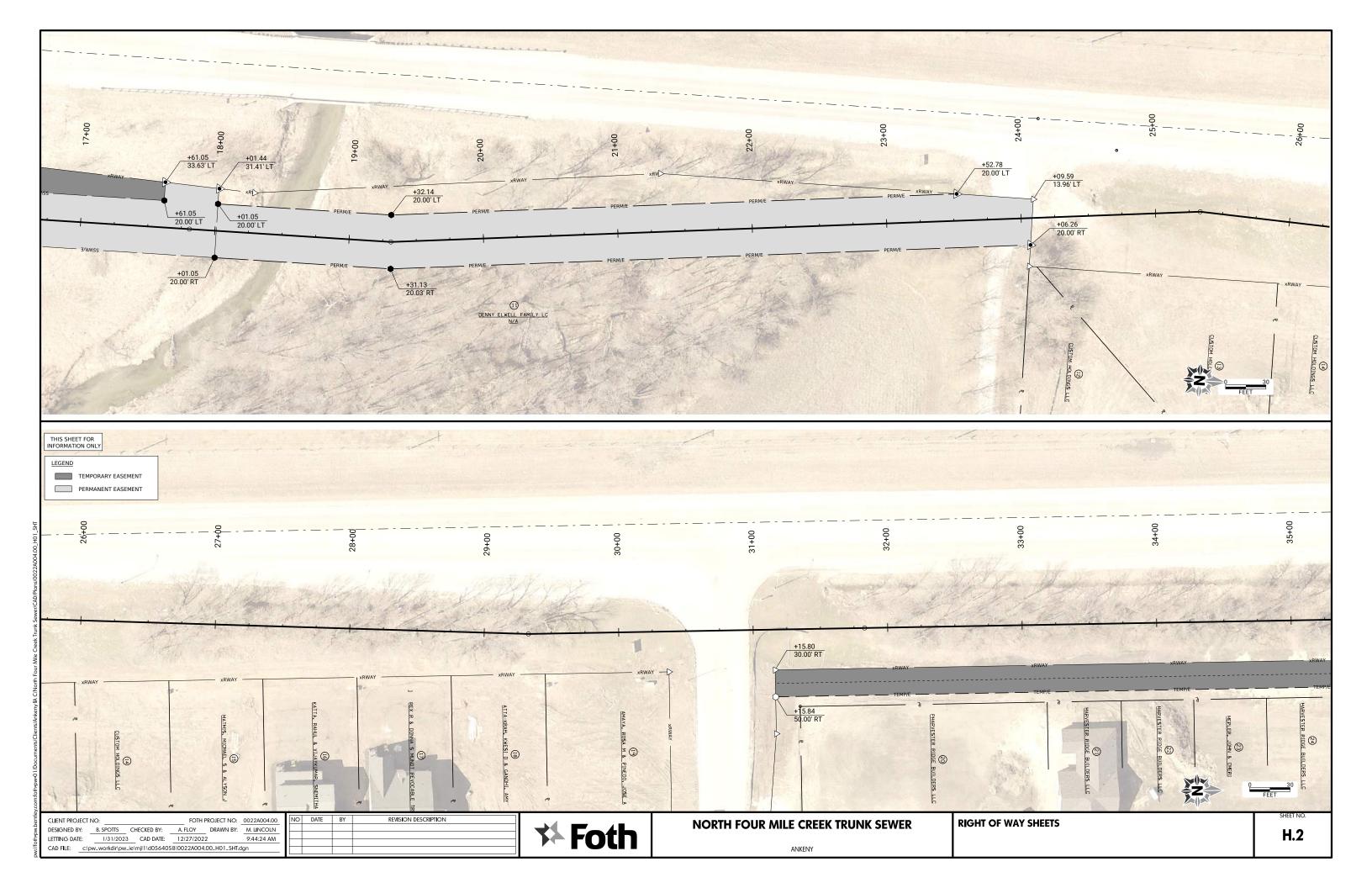
				CO	NTROL LINE DA	ATA - Alignment					
POINT	DEADING	DISTANCE	NORTHING	EASTING							
ID	BEARING	(FEET)	(Y)	(X)	PC	PI	PT	DELTA	R	L	т
Alignment	S90.000°W	254.941	7556367.435	18533206.63		0+00.000					
	N81.001°W	400.507	7556367.435	18532951.69		2+54.941					
	S89.964°W	329.999	7556430.081	18532556.11		6+55.447					
	N51.773°W	528.645	7556429.872	18532226.11		9+85.447					
	N0.004°E	266.957	7556756.983	18531810.83		15+14.091					
	N0.002°E	150.083	7557023.94	18531810.84		17+81.048					
	N5.784°W	602.144	7557174.023	18531810.85		19+31.131					
	N3.033°E	399.591	7557773.101	18531750.17		25+33.275					
	N0.281°E	250	7558172.132	18531771.31		29+32.866					
	N0.281°E	891.026	7558422.129	18531772.53		31+82.866					
	N0.443°E	200	7559313.144	18531776.9		40+73.891					
			7559513.138	18531778.45		42+73.891					

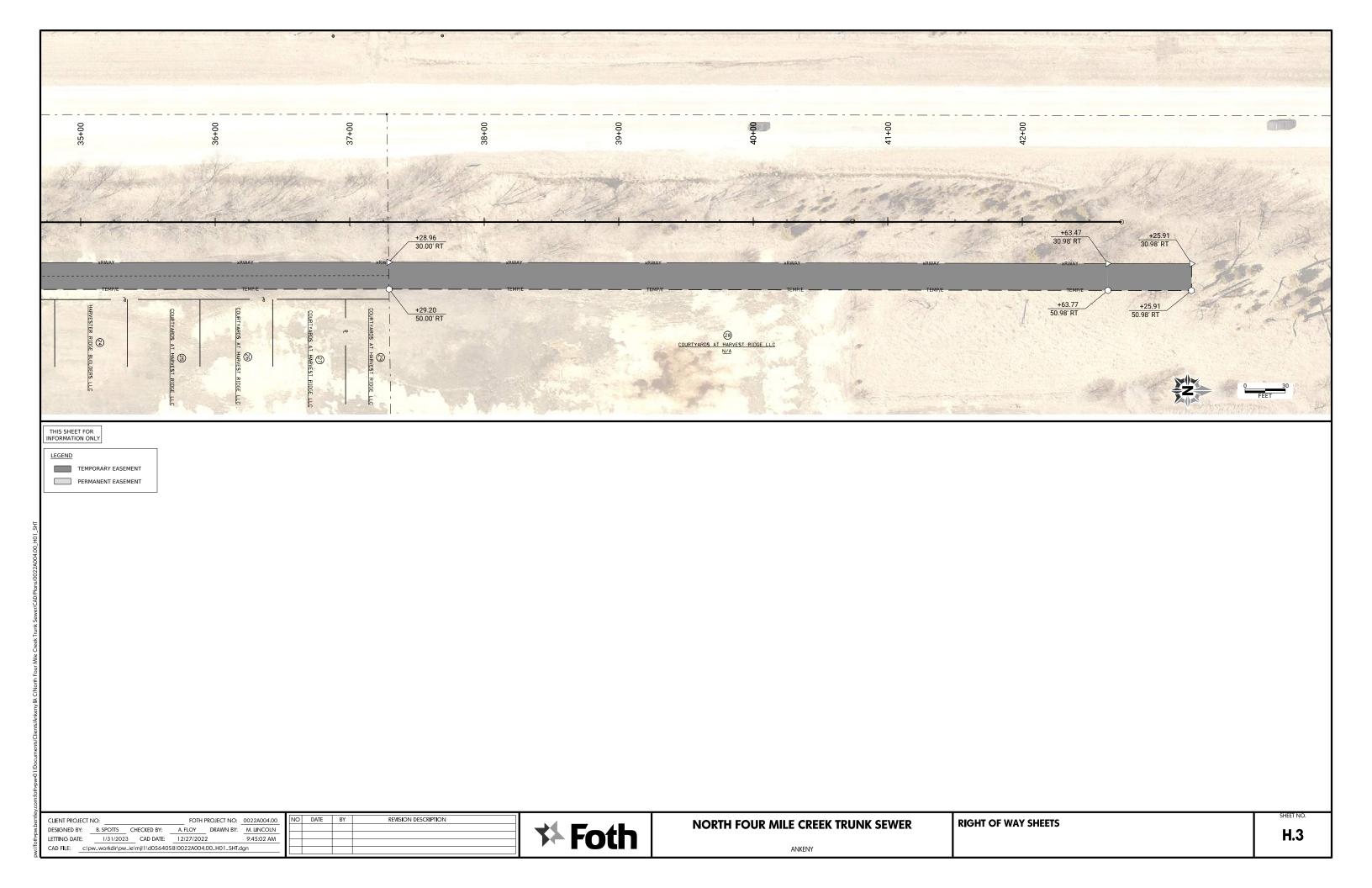
CLIENT PROJECT NO: FOTH PROJECT NO: 0022A00-						
DESIGNED BY:	A. LASTNAME	CHECKED BY:	B. LASTNAME	DRAWN BY:	C. LASTNAME	
LETT I NG DATE:	1/31/2023	CAD DATE:	12/27/2022	2	9:44:10 AM	
CAD FILE: c:\pw_workdir\pw_ie\mj 1\d0564058\0022A004.00_G_SHT.dgn						

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108-23A 08-01-08

TRAFFIC CONTROL PLAN

N	Ankeny	Plvd.
N.	Ankenv	DTAM.

Maintain all lanes of traffic, both southbound and northbound, at all times during construction except as noted elsewhere in the traffic control plan.

Right turn lane closure on N. Ankeny Blvd. for eastbound NE 62nd St. will be allowed as necessary for storage of spoil piles during construction of the sanitary sewer directly adjacent to the turn lane. Material storage is not allowed from other areas of the project unless directed by the Engineer.

Refer to SUDAS Standard Figures 8030.101 and 8030.113 for details of turn lane closure.

NE 54th St

Maintain all lanes of traffic, both eastbound and westbound at all times during construction.

NE 62nd St

Maintain all lanes of traffic, both eastbound westboound, including turn lane onto N. Ankeny Blvd., at all times during construction.

Driveway Access along N. Ankeny Blvd

Maintain access to driveway located near station 24+00 at all times during construciton.

Contractor to protect all light poles and all street signs. Damage shall be repaired by the Contractor at no cost to the City.

 PROJECT NO:
 0022A004.01
 DESIGNED BY:
 M. LINCOLN

 PROJECT DATE:
 JANUARY 2023
 CHECKED BY:
 B. SPOTTS

 CAD DATE:
 12/22/2022
 10:54:44 AM
 DRAWN BY:
 M. LINCOLN

CAD FILE: c:\pw_workdir\pw_ie\bas2\d0588995\0022A004.01_J01_SHT.xlsm

NO DATE BY REVISION DESCRIPTION



