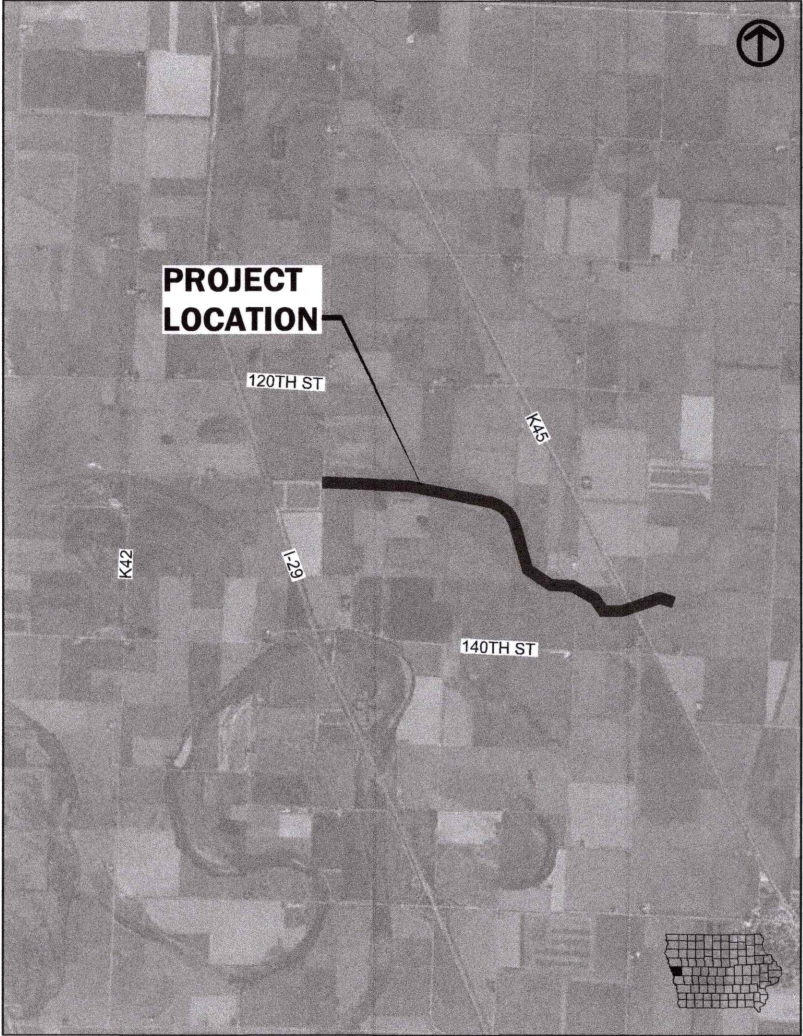


# PLANS FOR MAIN DITCH CLEANOUT - STA. 919+25 TO 1093+63 McCANDLESS INTERCOUNTY DRAINAGE DISTRICT MONONA COUNTY

The Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction Series 2023, Plus General Supplemental Specifications; and applicable Supplemental Specifications, Developmental Specifications, and Special Provisions shall apply to construction on this project.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications

SCALES: As Noted

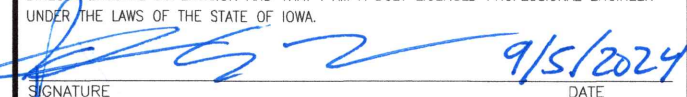


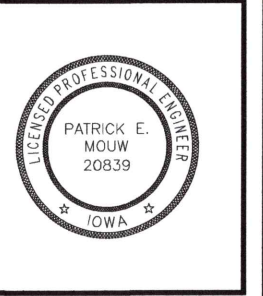
VICINITY MAP  
NOT TO SCALE

INDEX OF SHEETS	
NO.	DRAWING TITLE
A 01	TITLE
A 02	LEGEND
B 01	TYPICAL SECTIONS
C 01	QUANTITIES & GENERAL NOTES
C 02	DITCH EARTHWORK QUANTITIES
C 03	NORTH TRAIL EARTHWORK QUANTITIES
C 04	SOUTH TRAIL EARTHWORK QUANTITIES
D 01	OVERALL GRADING PLAN
D 02	GRADING PLAN & PROFILE
D 03	GRADING PLAN & PROFILE
D 04	GRADING PLAN & PROFILE
D 05	GRADING PLAN & PROFILE
D 06	GRADING PLAN & PROFILE
D 07	GRADING PLAN & PROFILE
D 08	GRADING PLAN & PROFILE
D 09	GRADING PLAN & PROFILE
D 10	GRADING PLAN & PROFILE
D 11	GRADING PLAN & PROFILE
D 12	GRADING PLAN & PROFILE
D 13	GRADING PLAN & PROFILE
D 14	GRADING PLAN & PROFILE
D 15	GRADING PLAN & PROFILE
D 16	GRADING PLAN & PROFILE
D 17	GRADING PLAN & PROFILE
D 18	GRADING PLAN & PROFILE
D 19	GRADING PLAN & PROFILE
D 20	GRADING PLAN & PROFILE
D 21	GRADING PLAN & PROFILE
D 22	GRADING PLAN & PROFILE
V 01	CULVERT PLAN & PROFILE
V 02	CULVERT PLAN & PROFILE
V 03	CULVERT PLAN & PROFILE
W 01	CROSS SECTIONS
W 02	CROSS SECTIONS
W 03	CROSS SECTIONS
W 04	CROSS SECTIONS
W 05	CROSS SECTIONS
W 06	CROSS SECTIONS
W 07	CROSS SECTIONS

W 08	CROSS SECTIONS
W 09	CROSS SECTIONS
W 10	CROSS SECTIONS
W 11	CROSS SECTIONS
W 12	CROSS SECTIONS
W 13	CROSS SECTIONS

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

  
 SIGNATURE: \_\_\_\_\_ DATE: 9/5/2024  
 NAME: PATRICK E. MOUW, P.E.  
 LICENSE NUMBER: 20839  
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025  
 ALL PAGES OR SHEETS COVERED BY THIS SEAL: \_\_\_\_\_



PLOTTED: Tuesday, August 20, 2024 9:40:35 AM

X-REFS: \\KVC-FS\KCSHARE\060\0637-MCCANDLESS-DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+60\CADD\_PRODDRAWINGS\06370013 A01-A02

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

TITLE

DWG. NO.
A.01
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:40:46 AM

X-REFS: FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013\_A01-A02

STANDARD SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link Fence
- Barbwire Fence
- Security Fence
- Woven Fence
- Barbwire and Woven Fence
- Terrace
- Earth Dam or Dike (Existing)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right-of-Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Luminaire
- Traffic Signal
- Traffic Signal with Luminaire
- Telephone Pedestal
- Television Pedestal
- Telephone Pole
- Telephone Pole (Second Company)
- Telephone Pole (Third Company)
- Telephone Pole (Fourth Company)
- Telephone Pole (Fifth Company)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- Electrical Highline Tower (Metal or Concrete)
- Telephone Riser Pole
- Power Riser Pole
- Telegraph Pole
- Satellite TV Dish
- Existing Water Line
- Existing Water Line (Second Company)
- Existing Sanitary Sewer Line
- Existing Telephone Line
- Existing Telephone Line (Second Company)
- Existing Fiber Optics Telephone Line
- Existing Storm Sewer Line
- Existing Gas Line
- Existing High Pressure Gas Line
- Existing Gas Line (Second Company)
- Existing High Pressure Gas Line (Second Company)
- Existing Power Line
- Existing Power Line (Second Company)
- Cable Television Line
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- Mile Marker Post
- Sign
- Water Hook Up
- Radio Tower
- Electric Box
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box

Right-of-Way LEGEND

- Proposed Right-of-Way
- Existing Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- Property Line
- A/C Access Control

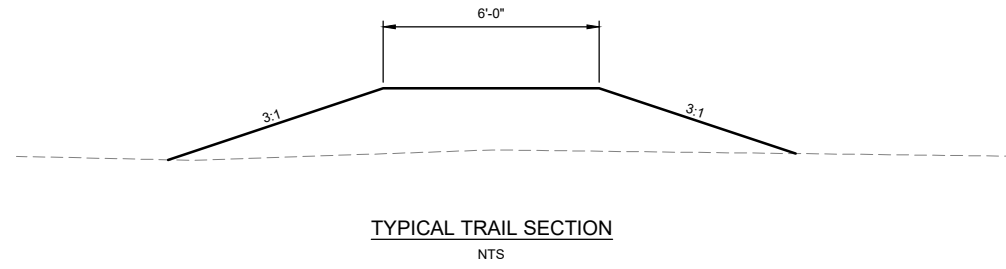
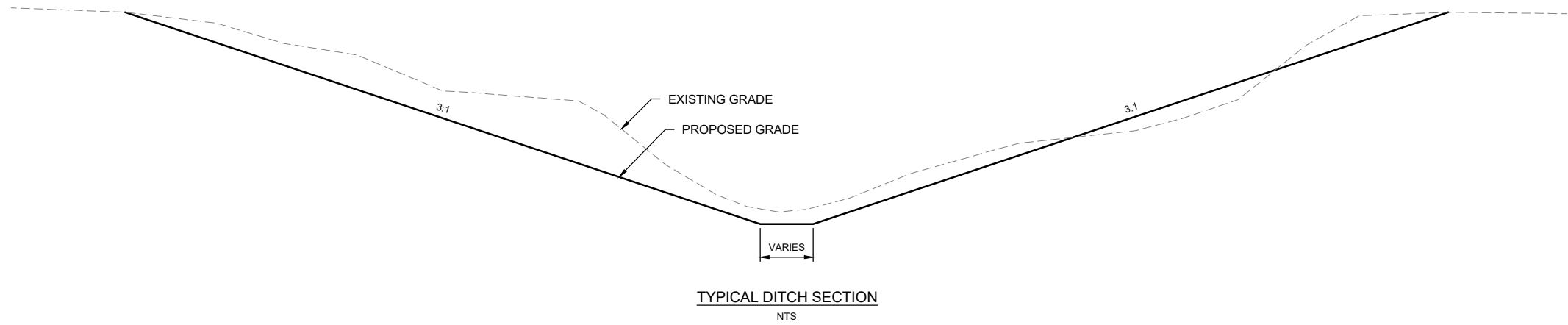
CONVENTIONAL SIGNS

- Station Reference Point Survey Line
- Section Corner
- Proposed Profile Grade
- Railroad
- Existing Proposed Field Tile
- Existing Proposed Culverts
- Stream

Legend And Symbol Information Sheet

(Symbols are Typical Only, actual size may vary)

<b>DATE</b>	<b>REVISIONS</b>	<b>SCALE</b>	<b>AS NOTED</b>		<b>MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63</b> <b>MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT</b>	<b>LEGEND</b>	<b>DWG. NO.</b>
		<b>DRAWN</b>	<b>JWD</b>		203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)		<b>A.02</b>
		<b>CHECKED</b>	<b>PEM</b>				
		<b>APPROVED</b>	<b>PEM</b>				
		<b>DATE</b>	<b>01-25-2024</b>				
		<b>ISSUED FOR</b>	<b>CONSTRUCTION</b>		<b>PROJECT 63713</b>		



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

TYPICAL SECTIONS

DWG. NO.
B.01
PROJECT 63713

ESTIMATED PROJECT QUANTITIES								
ITEM NO.	ITEM CODE	ITEM	UNIT	BASE BID	ALTERNATE 1	TOTAL	AS BUILT QUANTITIES BASE BID	AS BUILT QUANTITIES ALTERNATE 1
1	2102-2625000	EMBANKMENT-IN-PLACE	CY	12122	0	12122.0		
2	2104-2710020	EXCAVATION, CL 10, CHANNEL	CY	22694	0	22694.0		
3	2417-1040024	CULV, CMP ENT, 24"	LF	350	0	350.0		
4	2533-4980005	MOBILIZATION	LS	1	0	1.0		
5	2599-9999003	LEVELING, CLASS 10, CHANNEL	CY	10571	0	10571.0		
6	2601-2634100	MULCH	ACRE		9.8	9.8		
7	2601-2636015	NATIVE GRASS SEEDING	ACRE		9.8	9.8		

GENERAL NOTES	
1.	THE TOP SIX (6) INCHES OF THE DISTURBED AREAS SHALL BE FREE OF ROCK AND DEBRIS AND SHALL BE SUITABLE FOR THE ESTABLISHMENT OF VEGETATION, SUBJECT TO THE APPROVAL OF THE CONTRACTING AUTHORITY.
2.	ALL BORROW AREAS, STOCKPILE AREAS, HAUL ROADS, AND AREAS USED FOR EQUIPMENT ON THIS PROJECT REQUIRE SUBSOIL TILLAGE TO AN AVERAGE DEPTH OF 16 TO 20 INCHES PRIOR TO PLACEMENT OF TOPSOIL AND/OR STABILIZING CROP SEEDING. COMPLETE THIS TILLAGE AT 3 FOOT MAXIMUM CENTERS AND AT RIGHT ANGLES TO THE FINISHED SLOPE.
3.	USE TILLAGE EQUIPMENT EQUIPPED WITH AN ARROWHEAD TYPE SHOE THAT WILL PROVIDE LATERAL DISPLACEMENT AND LIMIT THE MOVEMENT OF THE SUBSOIL TO THE SURFACE. OBTAIN THE ENGINEER'S APPROVAL FOR THE EQUIPMENT. THIS WORK IS INCIDENTAL TO OTHER WORK ON THE PROJECT. FOLLOWING THE SUBSOIL TILLAGE, THE AREA IS TO REMAIN IN A "LOOSENEED" CONDITION. ADDITIONAL COMPACTION OR THE OPERATION OF HEAVY EQUIPMENT, OTHER THAN REQUIRED FOR TOPSOIL PLACEMENT AND SHAPING, WILL NOT BE ALLOWED ON AREAS WHICH HAVE RECEIVED SUBSOIL TILLAGE. THE ENGINEER MAKES NO GUARANTEE THAT ANY UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT ANY UTILITY SHOWN ARE IN THE EXACT LOCATION INDICATED. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT IOWA ONE CALL AT 1-800-292-8989 FOR UTILITY LOCATES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN REASONABLE ACCESS TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION.
4.	CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL TILE LINES. BREAKS IN THE TILE LINE DUE TO THE CONTRACTOR'S CARELESSNESS ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE WITHOUT COST TO THE DRAINAGE DISTRICT. ANY TILE LINES BROKEN OR DISTURBED BY CUT LINES WILL BE REPLACED AS DIRECTED BY THE ENGINEER IN CHARGE OF CONSTRUCTION AND AT THE DRAINAGE DISTRICTS EXPENSE.
5.	CONSTRUCTION STAKING WILL BE PROVIDED BY THE OWNER IN ACCORDANCE WITH ARTICLE 1105.15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING AN INDEPENDENT CHECK OF ALL CONSTRUCTION STAKES FOR THE PROJECT. THIS INDEPENDENT CHECK SHALL BE SUFFICIENT TO UNDERSTAND THE PLACEMENT AND INTENT OF THE STAKES.

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM NO.	DESCRIPTION
1	2102-2625000	EMBANKMENT-IN-PLACE TYPE "A" COMPACTION WILL NOT BE REQUIRED. BORROW FROM SUITABLE CLASS 10 CHANNEL EXCAVATION IS ALLOWED. ADDITIONAL NECESSARY BORROW SHALL BE PROVIDED BY THE CONTRACTOR. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED. ALL AREAS WITHIN THE CHANNEL, TO RECEIVE NEW EMBANKMENT SHALL BE THOROUGHLY CLEANED OF ALL VEGETATION AND OTHER DEBRIS. EXISTING SURFACES SHALL BE FLOWED, STEPPED OR BENCHED PRIOR TO PLACEMENT OF NEW EMBANKMENT FILLS. SUCH WORK SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THIS ITEM. MATERIALS PLACED IN THE CHANNEL SHALL CONTAIN NO SOD, BRUSH, ROOTS, OR OTHER PERISHABLE MATERIALS. FILL SHALL NOT BE PLACED UPON A FROZEN SURFACE, NOR SHALL SNOW, ICE, OR FROZEN MATERIAL BE INCORPORATED IN THE FILL. PAYMENT FOR THIS ITEM SHALL BE BASED ON PLAN QUANTITY. CROSS SECTIONS WILL NOT BE TAKEN AFTER EXCAVATION FOR THE PURPOSE OF DETERMINING ACTUAL QUANTITIES.
2	2104-2710020	EXCAVATION, CL 10, CHANNEL ANY REVETMENT REMOVAL NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO CLASS 10 CHANNEL EXCAVATION. IF REVETMENT IS ENCOUNTERED IT SHALL BE DISPOSED OF WITHIN THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER. ANY CLEARING AND GRUBBING NECESSARY TO COMPLETE THE WORK UNDER THIS CONTRACT SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO CLASS 10 CHANNEL EXCAVATION. PAYMENT SHALL BE BASED ON PLAN QUANTITY; CROSS SECTIONS WILL NOT BE TAKEN AFTER EXCAVATION FOR THE PURPOSE OF DETERMINING ACTUAL QUANTITIES.
3	2417-1040024	CULV, CMP ENT, 24" ALL PIPE SHALL BE ANNULAR, RIVETED PIPE. "SPIRAL" PIPE WILL NOT BE ALLOWED. MINIMUM BAND WIDTH SHALL BE 24 INCHES. SOIL USED TO CONSTRUCT THE BERM OVER THE CULVERT MAY COME FROM SUITABLE CLASS 10 CHANNEL EXCAVATION.
4	2533-4980005	MOBILIZATION
5	2599-9999003	LEVELING, CLASS 10, CHANNEL MATERIAL SPREAD ON THE FIELD SHALL BE IN A LOOSENEED CONDITION ALLOWING THE EASE OF PLANTING CROPS BY THE LANDOWNER. THE CONTRACTOR SHALL COORDINATE WITH EACH LANDOWNER. THE MATERIAL SHALL BE SPREAD SUCH THAT THE BERM ELEVATION NEXT TO THE DITCH IS NOT INCREASED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CROP DAMAGES IF CONSTRUCTION OCCURS BEFORE HARVEST OR AFTER THE COMPLETION DATE. LEVELING SHALL NOT OBSTRUCT EXISTING FIELD DRAINAGE. MEASUREMENT AND BASIS OF PAYMENT FOR THIS ITEM SHALL BE BASED ON PLAN QUANTITY. PAYMENT IS FULL COMPENSATION FOR FURNISHING ALL LABOR AND EQUIPMENT NECESSARY TO LEVEL THE CLASS 10 EXCAVATION.
6	2601-2634100	MULCH
7	2601-2636015	NATIVE GRASS SEEDING THE SEED MIXTURE AND RATES AS SPECIFIED IN 2601.03C5b SHALL BE REPLACED BY IOWA CRP MIXTURE CP23 HYDRIC MIX. THE SEED SHALL BE APPLIED AT A RATE OF 11 LBS./ACRE. IN ADDITION, A COVER CROP OF 25 LBS./ ACRE OF OATS AND 25 LBS./ACRE OF CEREAL RYE SHALL ALSO BE APPLIED. QUANTITY IS ESTIMATED WITH A WIDTH AS SHOWN ON THE D SHEETS ALONG WITH COVERING BOTH THE NORTH AND SOUTH TRAIL. SURVEY WILL NOT BE TAKEN AFTER SEEDING FOR THE PURPOSE OF DETERMINING ACTUAL QUANTITIES.

STANDARD ROAD PLANS		
The following Standard Road Plans apply to construction work on this project		
NUMBER	DATE	TITLE
DR-101	04-18-17	PIPE CULVERT (BEDDING AND BACKFILL)
DR-102	04-21-15	PIPE CULVERT (COVER AND CAMBER)
DR-104	04-19-16	DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

QUANTITIES & GENERAL NOTES

DWG. NO.
C.01
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:42:27 AM

X-REFS: 63713 FG FILE PATH: \\VKKC-FS\C\SHARE\06037-MCCANDLESS-DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_92+00-118+80\CADD\_PROD\DRAWINGS\06370013\_C01-C04

DITCH VOLUME TABLE							
Station	Cut Area (SF)	Fill Area (SF)	Cut Vol (CY)	Fill Vol (CY)	Cumulative Cut Vol (CY)	Cumulative Fill Vol (CY)	Net Vol (CY)
924+25	4.84	4.86	0.00	0.00	0.00	0.00	0.00
925+00	39.51	0.00	61.65	6.69	61.65	6.69	54.96
926+00	39.97	0.00	147.17	0.00	208.83	6.69	202.13
927+00	45.27	0.00	158.01	0.00	366.83	6.69	360.14
928+00	50.44	0.00	176.88	0.00	543.71	6.69	537.02
929+00	48.04	0.00	181.73	0.00	725.45	6.69	718.75
930+00	37.01	0.00	157.15	0.00	882.59	6.69	875.90
931+00	40.60	0.00	143.56	0.00	1026.15	6.69	1019.46
932+00	42.85	0.00	154.52	0.00	1180.67	6.69	1173.98
933+00	46.66	0.00	165.75	0.00	1346.42	6.69	1339.73
934+00	47.79	0.00	174.87	0.00	1521.30	6.69	1514.60
935+00	46.75	0.00	175.06	0.00	1696.36	6.69	1689.66
936+00	45.25	0.00	170.37	0.00	1866.73	6.69	1860.03
937+00	42.25	0.00	162.01	0.00	2028.74	6.69	2022.05
938+00	52.10	0.00	174.68	0.00	2203.42	6.69	2196.72
939+00	40.28	24.69	170.95	45.82	2374.37	52.51	2321.86
940+00	52.17	20.78	171.19	84.21	2545.56	136.72	2408.84
941+00	72.76	0.88	231.00	40.39	2776.56	177.10	2599.46
942+00	21.46	0.00	174.48	1.63	2951.04	178.74	2772.30
943+00	19.16	0.00	75.22	0.00	3026.26	178.74	2847.52
944+00	22.73	0.00	77.58	0.00	3103.84	178.74	2925.10
945+00	27.18	0.00	92.45	0.00	3196.29	178.74	3017.55
946+00	32.25	0.00	110.09	0.00	3306.38	178.74	3127.64
947+00	70.66	1.86	191.39	3.46	3497.76	182.20	3315.56
948+00	68.55	1.39	263.77	6.13	3761.53	188.33	3573.20
949+00	58.07	2.57	239.72	7.47	4001.25	195.80	3805.45
950+00	72.80	0.99	242.35	6.59	4243.59	202.39	4041.20
951+00	59.36	1.68	246.33	4.98	4489.92	207.37	4282.55
952+00	71.88	1.16	242.35	5.25	4732.27	212.62	4519.65
953+00	72.84	0.03	269.14	2.20	5001.41	214.83	4786.59
954+00	51.49	2.20	246.49	4.42	5247.90	219.25	5028.66
955+00	53.90	0.82	205.32	5.90	5453.23	225.15	5228.08
956+00	49.87	0.00	192.16	1.52	5645.39	226.67	5418.72
957+00	46.24	3.25	179.77	6.09	5825.15	232.76	5592.39
958+00	30.39	14.17	141.91	32.25	5967.06	265.01	5702.05
959+00	23.96	0.00	100.43	25.83	6067.49	290.85	5776.65
960+00	26.51	0.00	93.46	0.00	6160.95	290.85	5870.11
961+00	28.40	0.00	101.72	0.00	6262.67	290.85	5971.82
962+00	29.43	0.00	107.12	0.00	6369.78	290.85	6078.94
963+00	29.81	0.00	109.71	0.00	6479.49	290.85	6188.65
964+00	45.61	1.98	139.66	3.67	6619.15	294.52	6324.64
965+00	50.27	4.08	177.55	11.22	6796.70	305.74	6490.97
966+00	55.06	2.99	195.05	13.09	6991.76	318.82	6672.93
967+00	52.06	4.17	199.02	13.30	7190.77	332.13	6858.65
968+00	48.26	9.55	186.66	25.52	7377.43	357.65	7019.79
969+00	0.00	0.00	87.66	17.44	7465.09	375.09	7090.01
970+00	18.96	0.00	35.11	0.00	7500.20	375.09	7125.12
971+00	27.85	0.00	86.53	0.00	7586.74	375.09	7211.65
972+00	31.34	0.00	109.61	0.00	7696.35	375.09	7321.27
973+00	100.22	0.12	243.60	0.23	7939.95	375.31	7564.64
974+00	67.29	14.45	310.65	26.85	8250.60	402.16	7848.44
975+00	94.68	6.37	299.76	38.64	8550.36	440.81	8109.55
976+00	111.91	11.03	382.58	32.23	8932.94	473.03	8459.90
977+00	131.26	10.54	450.32	39.95	9383.26	512.98	8870.28
978+00	149.47	3.74	519.87	26.44	9903.13	539.43	9363.70
979+00	124.78	11.90	507.87	28.97	10411.00	568.39	9842.60
980+00	87.04	7.39	392.27	35.73	10803.27	604.12	10199.14
981+00	68.77	7.12	288.54	26.88	11091.80	631.00	10460.80
982+00	33.54	0.00	188.35	13.08	11280.16	644.08	10636.08
983+00	52.64	0.00	159.60	0.00	11439.76	644.08	10795.68

DITCH VOLUME TABLE							
Station	Cut Area (SF)	Fill Area (SF)	Cut Vol (CY)	Fill Vol (CY)	Cumulative Cut Vol (CY)	Cumulative Fill Vol (CY)	Net Vol (CY)
984+00	60.00	0.00	207.95	0.00	11647.71	644.08	11003.63
985+00	56.08	0.00	214.75	0.00	11862.46	644.08	11218.38
986+00	52.69	0.00	200.90	0.00	12063.36	644.08	11419.28
987+00	54.63	0.00	198.60	0.00	12261.96	644.08	11617.88
988+00	49.72	0.00	193.16	0.00	12455.12	644.08	11811.04
989+00	58.89	0.00	200.82	0.00	12655.94	644.08	12011.86
990+00	48.45	0.00	197.84	0.00	12853.79	644.08	12209.70
991+00	47.10	0.00	176.60	0.00	13030.38	644.08	12386.30
992+00	48.31	0.00	176.69	0.00	13207.07	644.08	12562.99
993+00	49.72	0.00	181.53	0.00	13388.60	644.08	12744.52
994+00	52.28	0.00	188.87	0.00	13577.48	644.08	12933.40
995+00	54.61	0.00	197.98	0.00	13775.46	644.08	13131.38
996+00	53.32	0.00	199.78	0.00	13975.24	644.08	13331.16
997+00	52.45	0.00	195.93	0.00	14171.17	644.08	13527.09
998+00	45.73	0.00	181.76	0.00	14352.94	644.08	13708.85
999+00	48.09	0.00	173.80	0.00	14526.74	644.08	13882.66
1000+00	45.80	0.00	173.82	0.00	14700.56	644.08	14056.48
1001+00	44.98	0.00	168.11	0.00	14868.68	644.08	14224.59
1002+00	46.48	0.00	169.37	0.00	15038.04	644.08	14393.96
1003+00	48.58	0.00	176.05	0.00	15214.09	644.08	14570.01
1004+00	53.85	0.00	189.70	0.00	15403.79	644.08	14759.71
1005+00	50.76	0.00	193.72	0.00	15597.51	644.08	14953.43
1006+00	46.40	0.00	179.92	0.01	15777.44	644.09	15133.35
1007+00	48.48	0.00	175.68	0.01	15953.12	644.09	15309.03
1008+00	45.99	0.01	174.98	0.01	16128.10	644.10	15483.99
1009+00	44.57	0.00	167.65	0.01	16295.75	644.12	15651.63
1010+00	41.59	0.00	159.55	0.00	16455.30	644.12	15811.19
1011+00	23.32	0.00	120.12	0.00	16575.42	644.12	15931.31
1012+00	30.84	0.00	100.63	0.00	16676.05	644.12	16031.94
1013+00	53.09	0.00	155.71	0.00	16831.77	644.12	16187.65
1014+00	36.35	0.00	165.96	0.00	16997.72	644.12	16353.61
1015+00	9.96	0.00	85.98	0.00	17083.70	644.12	16439.59
1016+00	24.99	0.00	64.72	0.00	17148.42	644.12	16504.31
1017+00	27.10	0.00	96.50	0.00	17244.93	644.12	16600.81
1018+00	27.51	0.00	101.16	0.00	17346.09	644.12	16701.98
1019+00	31.17	0.00	108.73	0.00	17454.82	644.12	16810.70
1020+00	29.58	0.00	112.54	0.00	17567.36	644.12	16923.25
1021+00	27.80	0.00	106.34	0.00	17673.71	644.12	17029.59
1022+00	30.02	0.00	107.10	0.00	17780.80	644.12	17136.68
1023+00	30.12	0.00	111.44	0.00	17892.25	644.12	17248.13
1024+00	29.33	0.00	110.13	0.00	18002.37	644.12	17358.26
1025+00	29.47	0.00	108.89	0.00	18111.27	644.12	17467.15
1026+00	31.49	0.00	112.91	0.00	18224.17	644.12	17580.06
1027+00	29.35	0.00	112.66	0.00	18336.84	644.12	17692.72
1028+00	25.85	0.00	102.21	0.00	18439.04	644.12	17794.93
1029+00	28.53	0.00	100.70	0.00	18539.75	644.12	17895.63
1030+00	25.48	0.00	100.01	0.00	18639.76	644.12	17995.64
1031+00	25.99	0.00	95.34	0.00	18735.10	644.12	18090.98
1032+00	25.49	0.00	95.35	0.00	18830.45	644.12	18186.33
1033+00	24.01	0.00	91.67	0.00	18922.11	644.12	18278.00
1034+00	23.86	0.00	88.65	0.00	19010.76	644.12	18366.64
1035+00	31.75	0.00	102.94	0.00	19113.70	644.12	18469.58
1036+00	25.55	0.00	106.12	0.00	19219.82	644.12	18575.70
1037+00	33.83	0.00	109.95	0.00	19329.77	644.12	18685.65
1038+00	26.68	0.00	112.05	0.00	19441.82	644.12	18797.70
1039+00	31.96	0.00	108.59	0.00	19550.41	644.12	18906.29
1040+00	28.30	0.00	111.59	0.00	19661.99	644.12	19017.88
1041+00	31.23	0.07	110.24	0.14	19772.24	644.26	19127.98
1042+00	24.56	0.00	103.32	0.14	19875.56	644.39	19231.16
1043+00	25.92	0.00	93.48	0.00	19969.04	644.39	19324.65

DITCH VOLUME TABLE							
Station	Cut Area (SF)	Fill Area (SF)	Cut Vol (CY)	Fill Vol (CY)	Cumulative Cut Vol (CY)	Cumulative Fill Vol (CY)	Net Vol (CY)
1044+00	21.88	0.00	88.52	0.00	20057.56	644.39	19413.17
1045+00	20.77	0.00	78.97	0.00	20136.54	644.39	19492.14
1046+00	18.93	0.00	73.51	0.00	20210.05	644.39	19565.65
1047+00	17.05	0.00	66.62	0.00	20276.67	644.39	19632.27
1048+00	18.38	0.00	65.61	0.00	20342.28	644.39	19697.88
1049+00	17.87	0.00	67.15	0.00	20409.42	644.39	19765.03
1050+00	16.80	0.00	64.21	0.00	20473.64	644.39	19829.24
1051+00	18.11	0.00	64.62	0.00	20538.26	644.39	19893.86
1052+00	18.04	0.00	66.93</				

X-REFS: 63713 FG FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-001\_3\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013\_C01-C04 PLOTTED: Tuesday, August 20, 2024 9:42:41 AM

NORTH TRAIL VOLUME TABLE							
Station	Cut Area (SF)	Fill Area (SF)	Cut Vol (CY)	Fill Vol (CY)	Cumulative Cut Vol (CY)	Cumulative Fill Vol (CY)	Net Vol (CY)
1067+50	0.88	0.80	0.00	0.00	0.00	0.00	0.00
1068+00	0.00	6.56	0.81	6.82	0.81	6.82	-6.00
1068+50	0.00	12.56	0.00	17.71	0.81	24.53	-23.71
1069+00	0.00	12.23	0.00	22.96	0.81	47.48	-46.67
1069+50	0.00	15.15	0.00	25.33	0.81	72.82	-72.01
1070+00	0.00	16.69	0.00	29.46	0.81	102.28	-101.47
1070+50	0.00	14.41	0.00	28.80	0.81	131.08	-130.26
1071+00	0.00	12.91	0.00	25.29	0.81	156.37	-155.56
1071+50	0.00	14.29	0.00	25.17	0.81	181.54	-180.73
1072+00	0.00	14.51	0.00	26.65	0.81	208.19	-207.38
1072+50	0.00	13.22	0.00	25.69	0.81	233.88	-233.06
1073+00	0.00	9.30	0.00	20.89	0.81	254.76	-253.95
1073+50	0.00	9.06	0.00	16.99	0.81	271.76	-270.94
1074+00	0.00	6.07	0.00	14.01	0.81	285.77	-284.95
1074+50	0.00	7.35	0.00	12.43	0.81	298.20	-297.39
1075+00	0.00	5.60	0.00	11.97	0.81	310.17	-309.36
1075+50	0.00	4.90	0.00	9.72	0.81	319.89	-319.08
1076+00	0.00	13.31	0.00	16.91	0.82	336.80	-335.98
1076+50	0.00	19.04	0.00	29.95	0.82	366.75	-365.94
1077+00	0.00	25.95	0.00	41.63	0.82	408.38	-407.56
1077+50	0.00	32.86	0.00	54.45	0.82	462.83	-462.02
1078+00	0.00	29.19	0.00	57.45	0.82	520.29	-519.47
1078+50	0.00	25.21	0.00	50.26	0.82	570.54	-569.73
1079+00	0.00	23.10	0.00	44.73	0.82	615.28	-614.46
1079+50	0.00	24.03	0.00	43.68	0.82	658.96	-658.15
1080+00	0.00	16.94	0.00	38.01	0.82	696.97	-696.15
1080+50	0.00	18.15	0.00	32.47	0.82	729.43	-728.62
1081+00	0.00	15.68	0.00	31.32	0.82	760.75	-759.94
1081+50	0.00	15.14	0.00	28.53	0.82	789.28	-788.47
1082+00	0.00	13.72	0.00	26.72	0.82	816.00	-815.19
1082+50	0.00	13.54	0.00	25.22	0.82	841.22	-840.41
1083+00	0.00	19.24	0.00	30.35	0.82	871.58	-870.76
1083+50	0.00	17.73	0.00	34.26	0.82	905.84	-905.02
1084+00	0.00	17.49	0.00	32.61	0.82	938.45	-937.63
1084+50	0.00	16.92	0.00	31.87	0.82	970.31	-969.50
1085+00	0.00	11.78	0.00	26.58	0.82	996.89	-996.08
1085+50	0.00	15.94	0.00	25.59	0.82	1022.48	-1021.66
1086+00	0.00	19.22	0.00	32.54	0.82	1055.02	-1054.20
1086+50	0.00	20.45	0.00	36.89	0.82	1091.91	-1091.09
1087+00	0.00	18.89	0.00	36.38	0.82	1128.29	-1127.47
1087+50	0.00	15.05	0.00	31.43	0.82	1159.72	-1158.90
1088+00	0.00	16.85	0.00	29.54	0.82	1189.26	-1188.44
1088+50	0.00	18.35	0.00	32.57	0.82	1221.83	-1221.01
1089+00	0.00	20.38	0.00	35.87	0.82	1257.70	-1256.88
1089+50	0.00	20.58	0.00	38.00	0.82	1295.69	-1294.88
1090+00	0.00	18.13	0.00	35.91	0.82	1331.61	-1330.79
1090+50	0.00	16.48	0.00	32.01	0.82	1363.62	-1362.81
1091+00	0.00	17.33	0.00	31.21	0.82	1394.83	-1394.02
1091+50	0.00	21.42	0.00	35.86	0.82	1430.69	-1429.87
1092+00	0.00	20.92	0.00	39.20	0.82	1469.89	-1469.08
1092+50	0.00	16.18	0.00	34.38	0.82	1504.27	-1503.46
1093+00	0.00	8.38	0.00	22.79	0.82	1527.06	-1526.25
1093+50	0.47	0.33	0.44	8.07	1.26	1535.14	-1533.88

DATE	REVISIONS

SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

NORTH TRAIL EARTHWORK QUANTITIES

DWG. NO.
C.03
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:42:57 AM

X-REFS: 63713.FG  
FILE PATH: \\VKKC-FS\KCSHARE\0600037-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PROD\DRAWINGS\06370013\_C01-C04

SOUTH TRAIL VOLUME TABLE. Columns: Station, Cut Area (SF), Fill Area (SF), Cut Vol (CY), Fill Vol (CY), Cumulative Cut Vol (CY), Cumulative Fill Vol (CY), Net Vol (CY). Rows 982+00 to 1011+50.

SOUTH TRAIL VOLUME TABLE. Columns: Station, Cut Area (SF), Fill Area (SF), Cut Vol (CY), Fill Vol (CY), Cumulative Cut Vol (CY), Cumulative Fill Vol (CY), Net Vol (CY). Rows 1012+00 to 1041+00.

SOUTH TRAIL VOLUME TABLE. Columns: Station, Cut Area (SF), Fill Area (SF), Cut Vol (CY), Fill Vol (CY), Cumulative Cut Vol (CY), Cumulative Fill Vol (CY), Net Vol (CY). Rows 1041+50 to 1068+50.

DATE REVISIONS table with 3 columns: DATE, REVISIONS, and a blank column.

SCALE AS NOTED, DRAWN JWD, CHECKED PEM, APPROVED PEM, DATE 01-25-2024, ISSUED FOR CONSTRUCTION, and VEENSTRA & KIMM INC. logo.

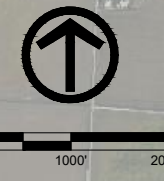
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT  
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

SOUTH TRAIL EARTHWORK QUANTITIES

DWG. NO. C.04  
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:43:28 AM

X-REFS: \\KICK-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D01



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

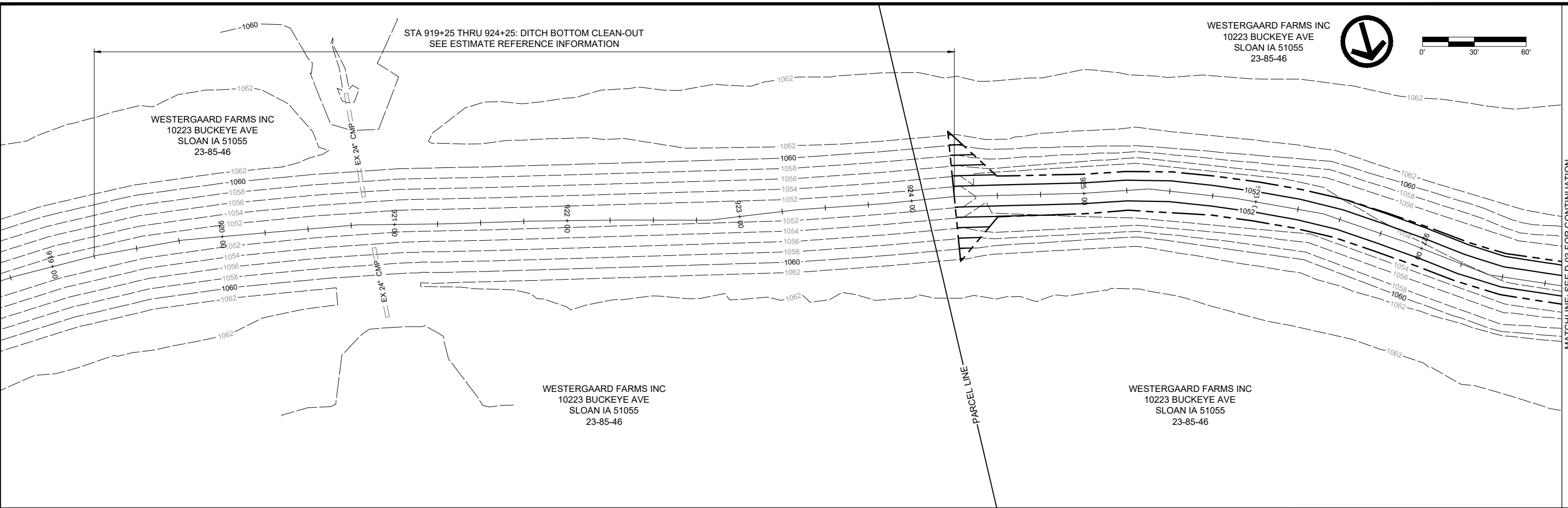
**OVERALL GRADING PLAN**

DWG. NO.	D.01
PROJECT	63713

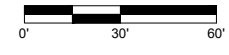


PLOTTED: Tuesday, August 20, 2024 9:44:23 AM

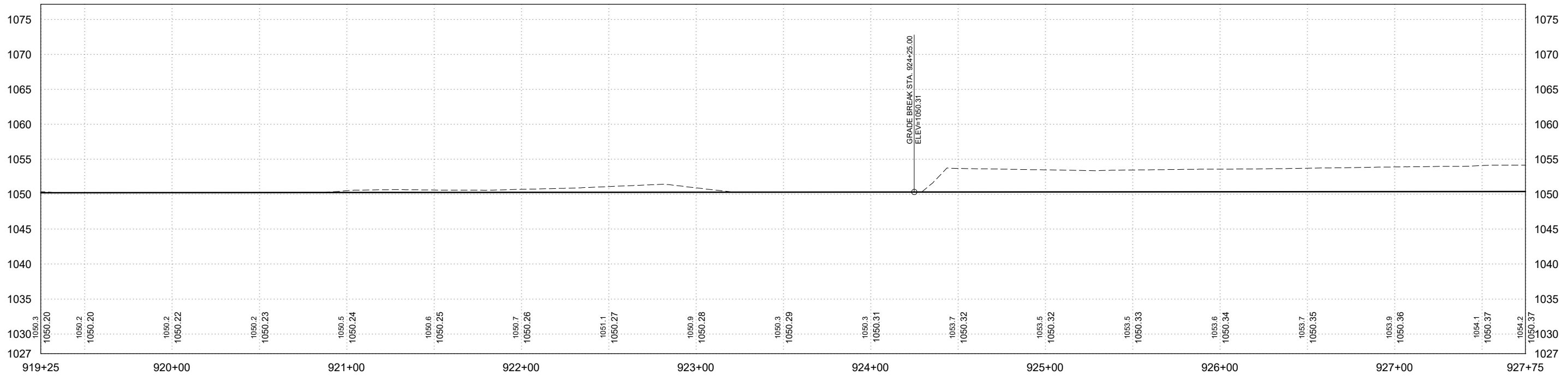
X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\KCC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_924+00-1187+80\CADD\_PRODDRAWINGS\6370013 D02-D11



WESTERGAARD FARMS INC  
 10223 BUCKEYE AVE  
 SLOAN IA 51055  
 23-85-46



MATCHLINE: SEE D.03 FOR CONTINUATION



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

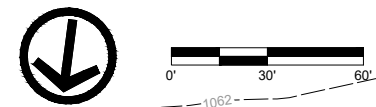
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.	D.02
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:44:39 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11

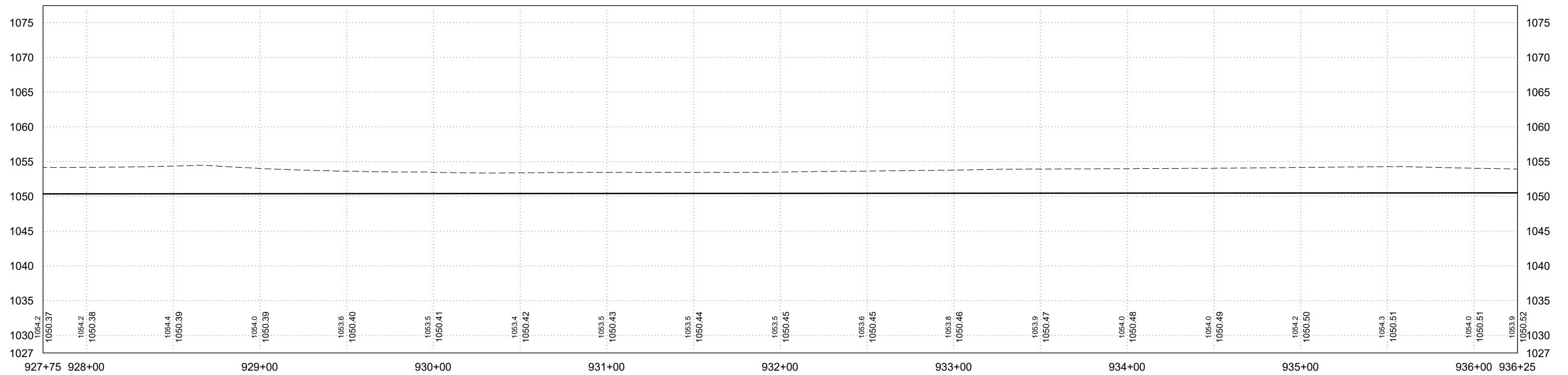


MATCHLINE: SEE D.02 FOR CONTINUATION

MATCHLINE: SEE D.04 FOR CONTINUATION

WESTERGAARD FARMS INC  
 10223 BUCKEYE AVE  
 SLOAN IA 51055  
 23-85-46

WESTERGAARD FARMS INC  
 10223 BUCKEYE AVE  
 SLOAN IA 51055  
 23-85-46



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

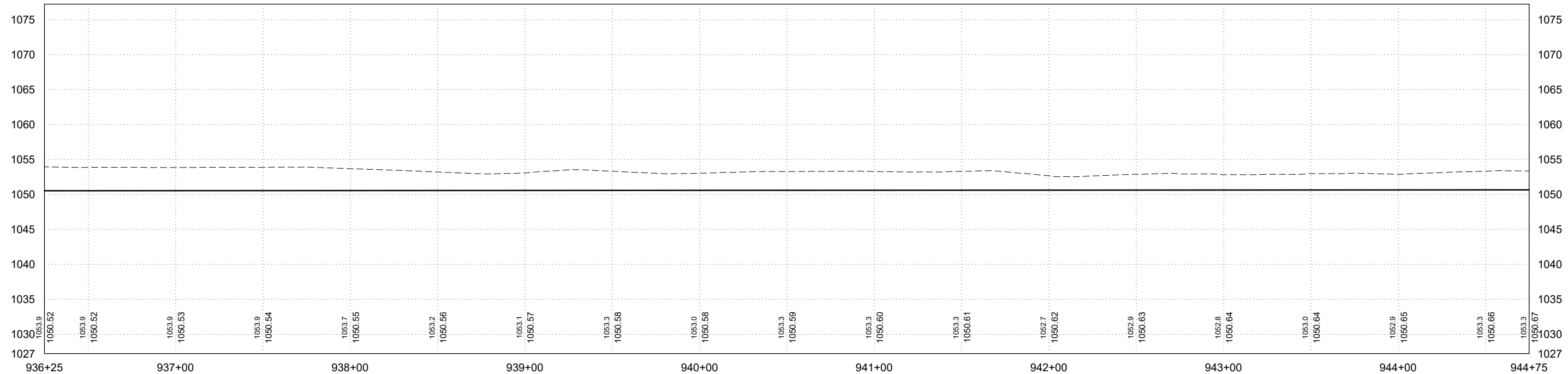
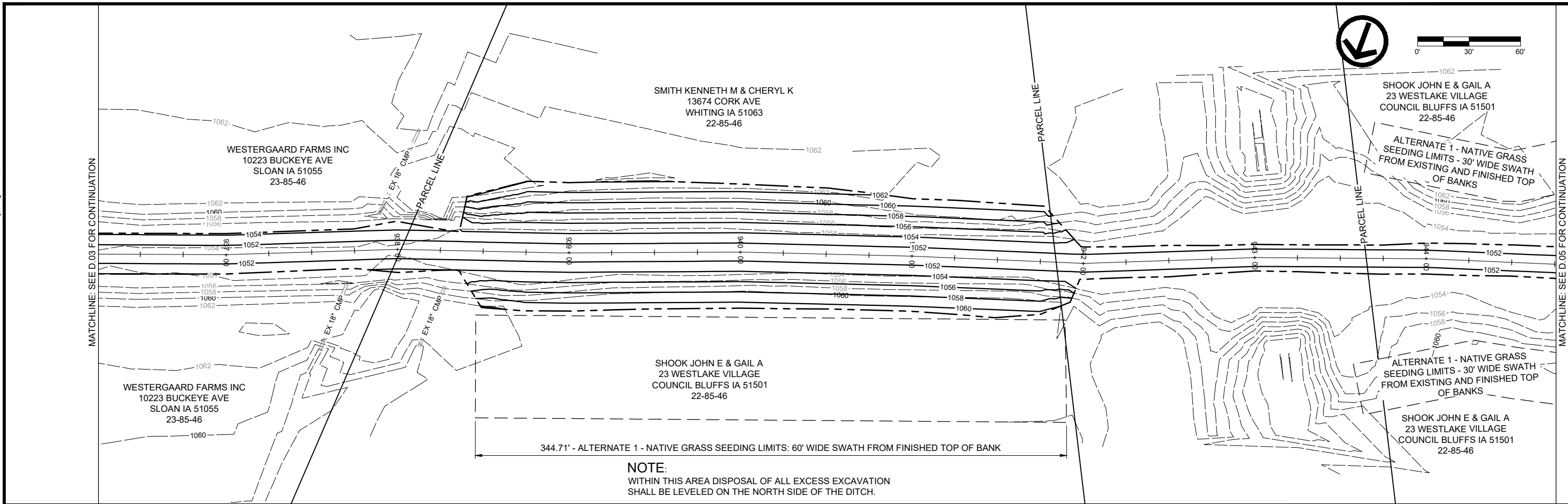
DWG. NO.

D.03

PROJECT 63713

PLOTTED: Friday, August 23, 2024 8:55:49 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\060000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\6370013 D02-D11



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

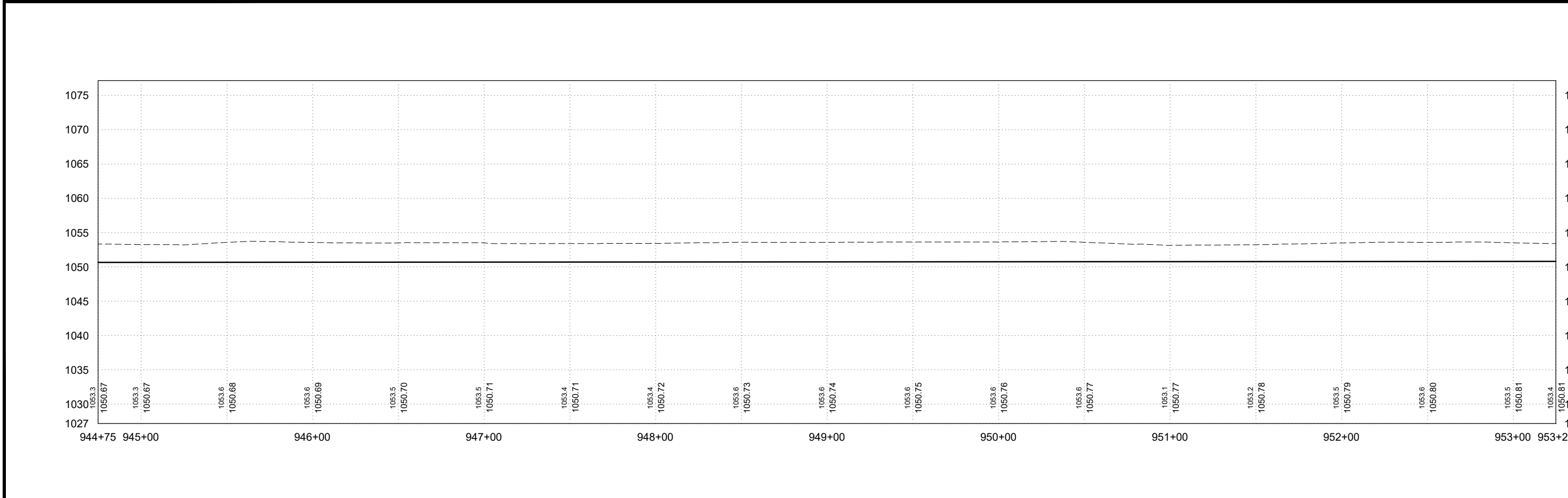
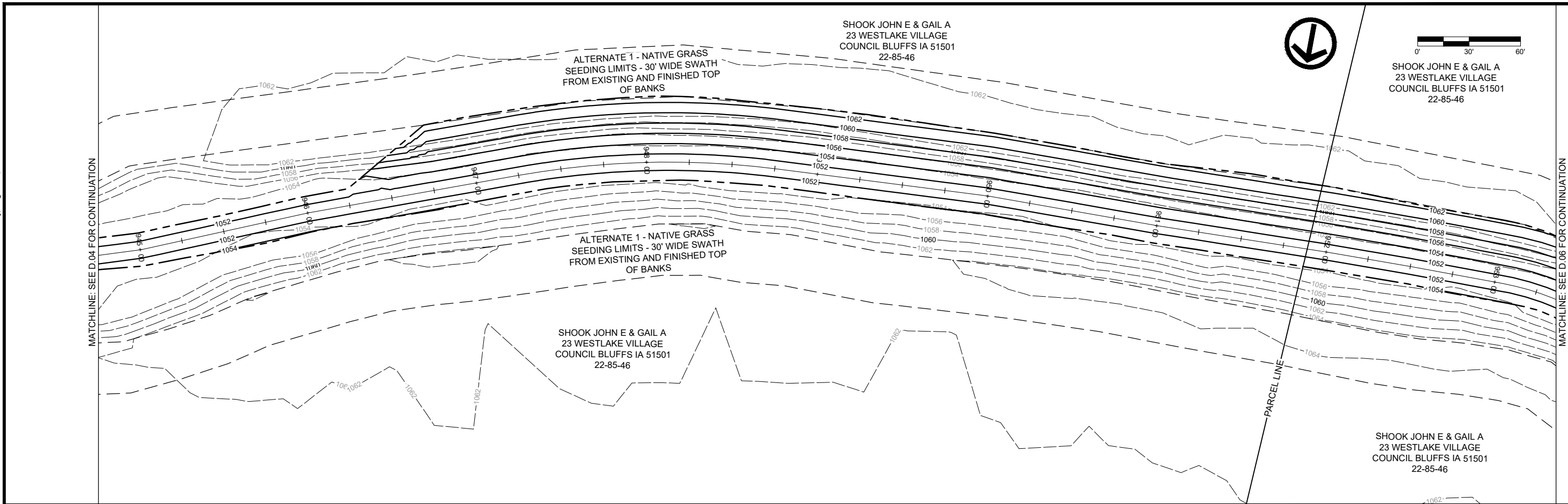
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.	D.04
PROJECT	63713

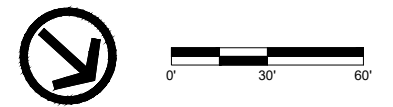
PLOTTED: Friday, August 23, 2024 8:56:05 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\KCC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11



DATE	REVISIONS	SCALE	AS NOTED		<b>MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63</b> <b>MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT</b>	<b>GRADING PLAN &amp; PROFILE</b>	DWG. NO.	
		DRAWN	JWD				203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220	<b>D.05</b>
		CHECKED	PEM				712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)	
		APPROVED	PEM					
		DATE	01-25-2024					
		ISSUED FOR	CONSTRUCTION	PROJECT	63713			

PLOTTED: Friday, August 23, 2024 8:56:19 AM



MATCHLINE: SEE D.05 FOR CONTINUATION

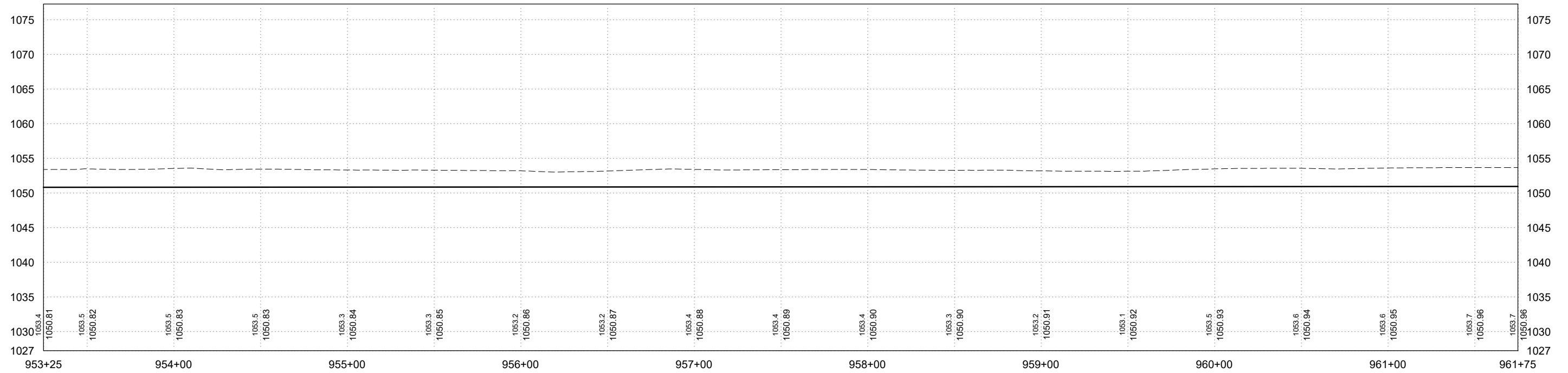
MATCHLINE: SEE D.07 FOR CONTINUATION

SHOOK JOHN E & GAIL A  
23 WESTLAKE VILLAGE  
COUNCIL BLUFFS IA 51501  
22-85-46

ALTERNATE 1 - NATIVE GRASS  
SEEDING LIMITS - 30' WIDE SWATH  
FROM EXISTING AND FINISHED TOP  
OF BANKS

ALTERNATE 1 - NATIVE GRASS  
SEEDING LIMITS - 30' WIDE SWATH  
FROM EXISTING AND FINISHED TOP  
OF BANKS

SHOOK JOHN E & GAIL A  
23 WESTLAKE VILLAGE  
COUNCIL BLUFFS IA 51501  
22-85-46



X-REFS: ALL PTS & 63713 PROPERTY  
FILE PATH: \\KCC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\6370013 D02-D11

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

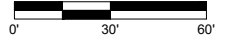
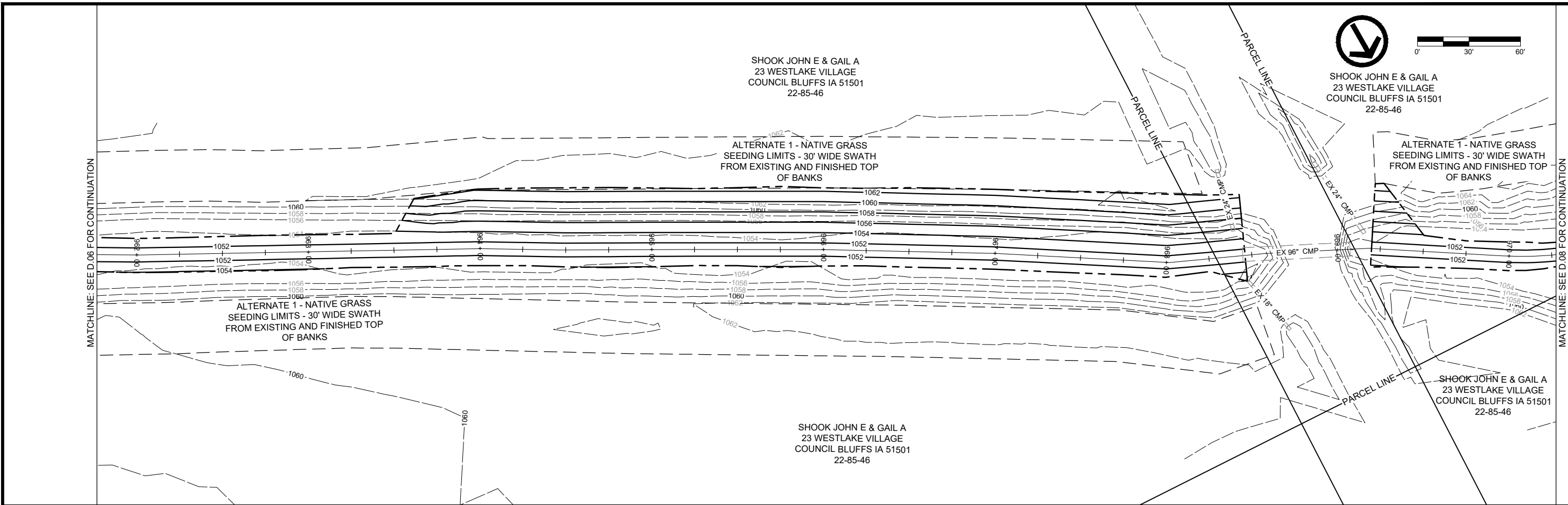
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.	D.06
PROJECT	63713

PLOTTED: Friday, August 23, 2024 8:56:34 AM

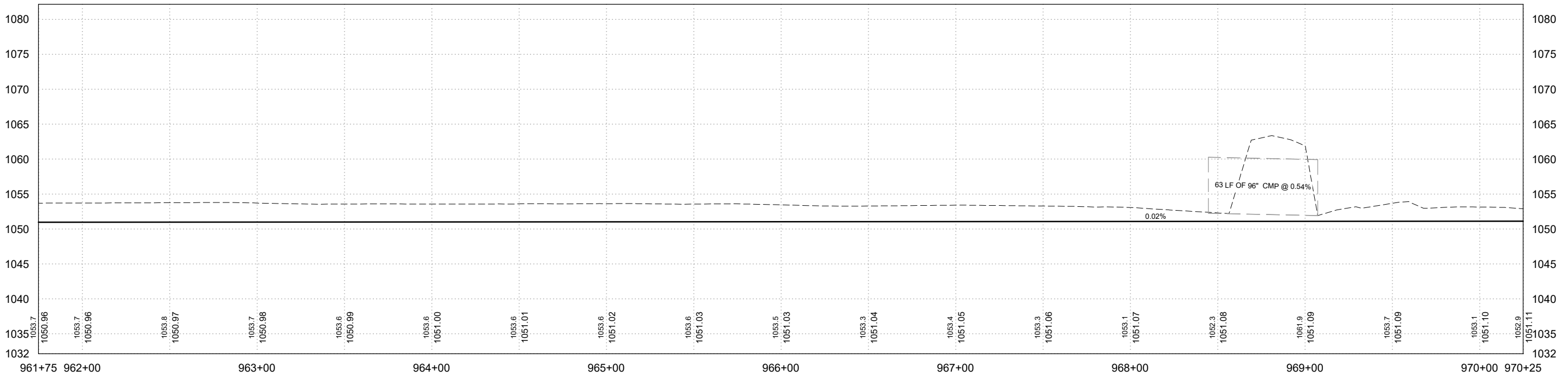
X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\KCC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11



SHOOK JOHN E & GAIL A  
 23 WESTLAKE VILLAGE  
 COUNCIL BLUFFS IA 51501  
 22-85-46

ALTERNATE 1 - NATIVE GRASS  
 SEEDING LIMITS - 30' WIDE SWATH  
 FROM EXISTING AND FINISHED TOP  
 OF BANKS

SHOOK JOHN E & GAIL A  
 23 WESTLAKE VILLAGE  
 COUNCIL BLUFFS IA 51501  
 22-85-46



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO. D.07

PROJECT 63713

PLOTTED: Friday, August 23, 2024 8:56:49 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\KCC-FS\KCSHARE\060000\0637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11



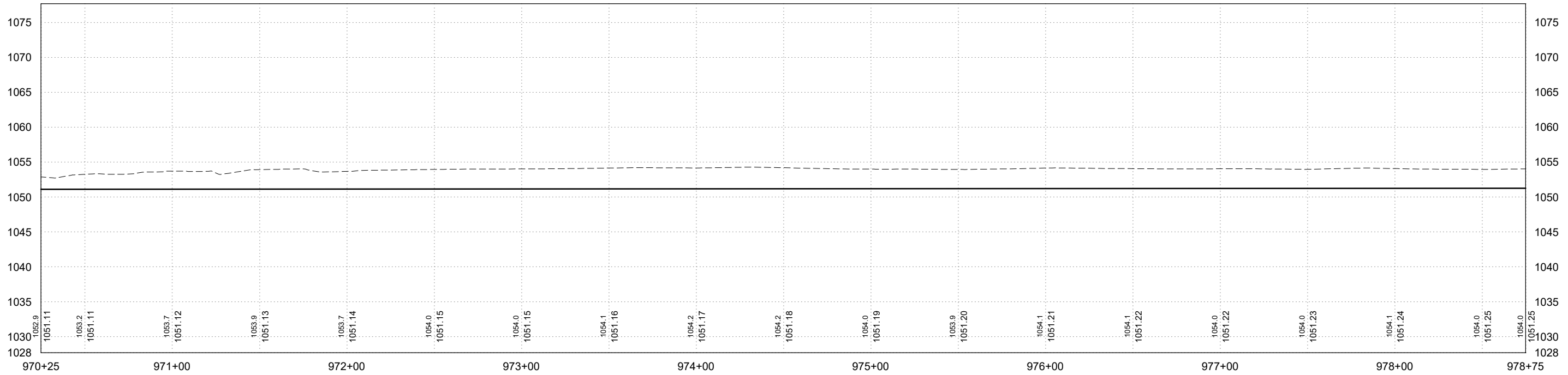
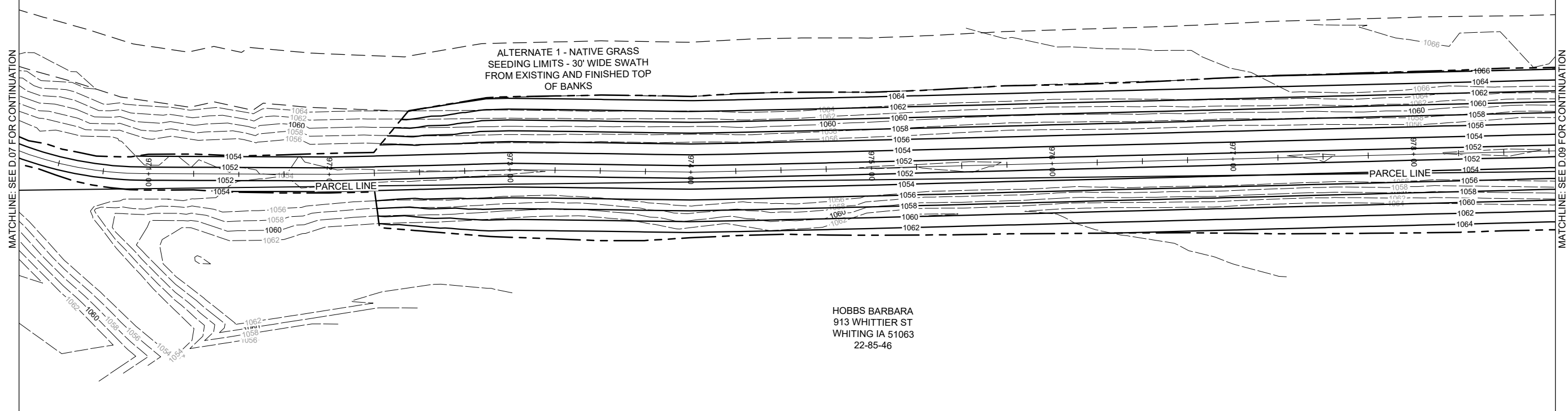
SHOOK JOHN E & GAIL A  
 23 WESTLAKE VILLAGE  
 COUNCIL BLUFFS IA 51501  
 22-85-46

ALTERNATE 1 - NATIVE GRASS  
 SEEDING LIMITS - 30' WIDE SWATH  
 FROM EXISTING AND FINISHED TOP  
 OF BANKS

HOBBS BARBARA  
 913 WHITTIER ST  
 WHITING IA 51063  
 22-85-46

MATCHLINE: SEE D.07 FOR CONTINUATION

MATCHLINE: SEE D.09 FOR CONTINUATION



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

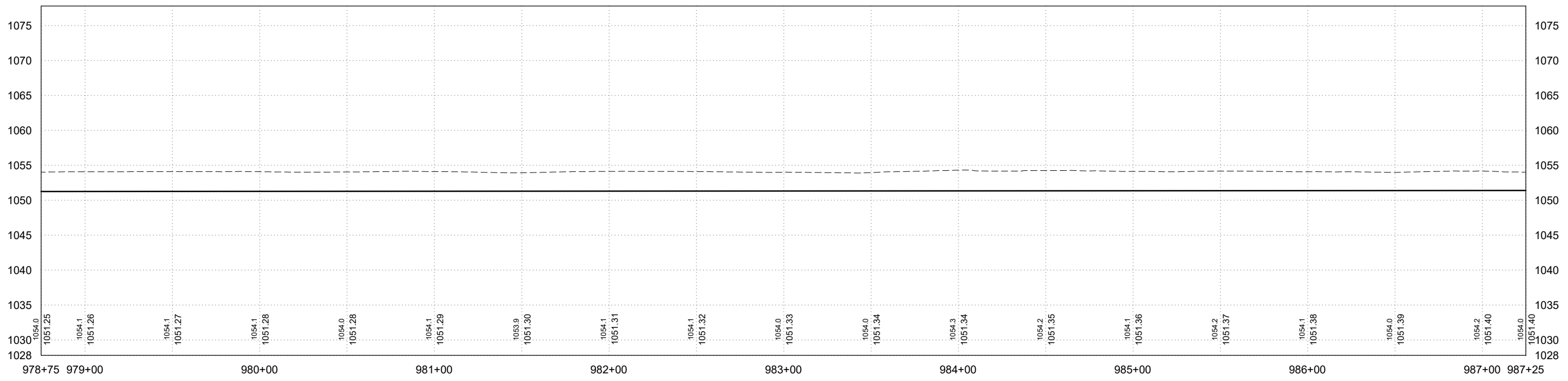
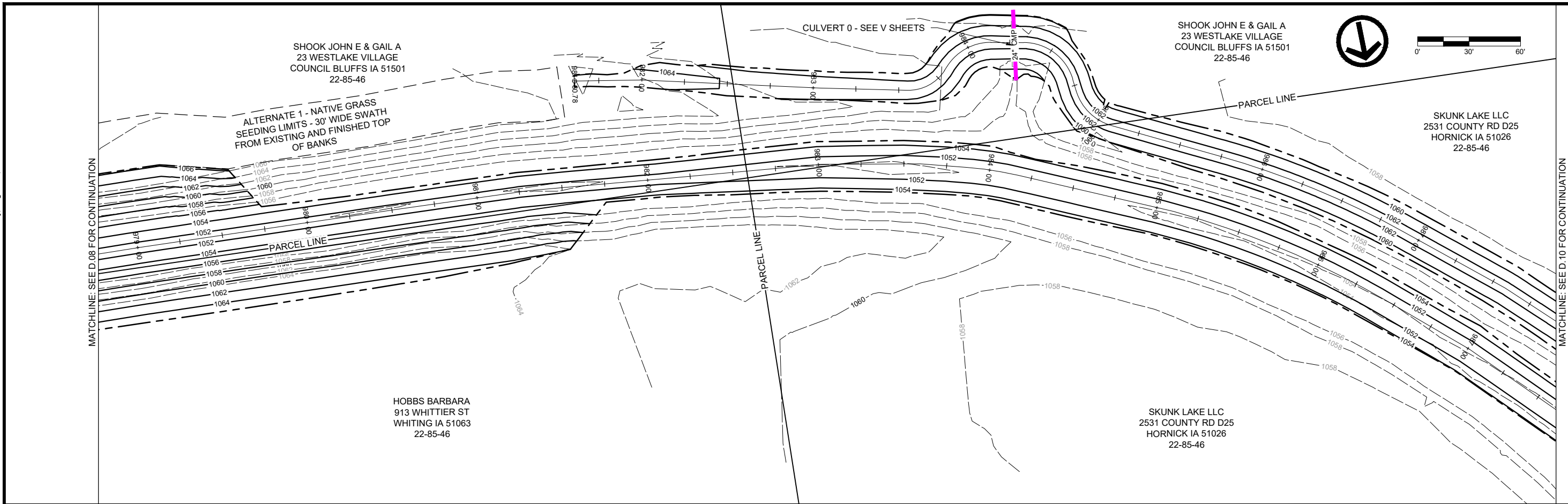
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.
D.08
PROJECT 63713

PLOTTED: Friday, August 23, 2024 8:57:04 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\6370013 D02-D11



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

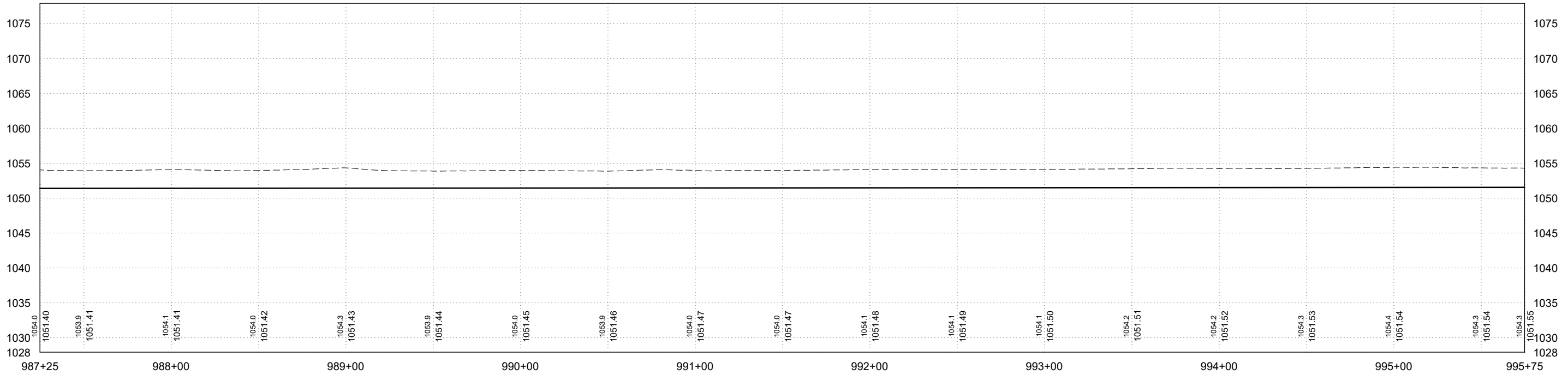
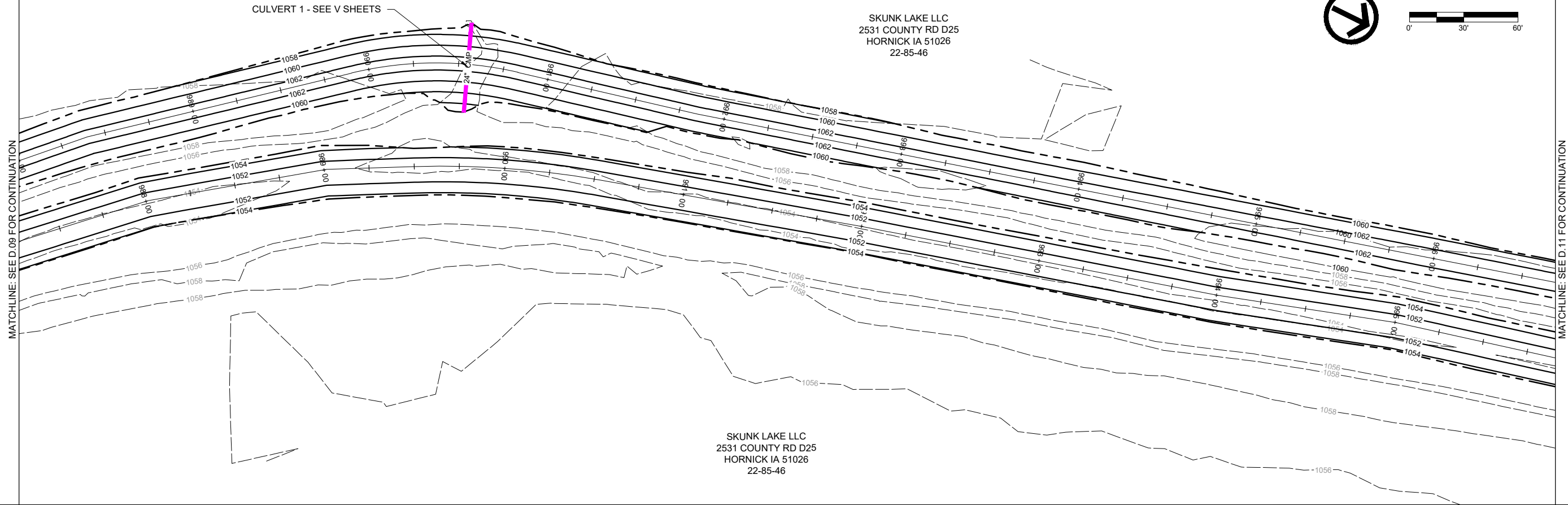
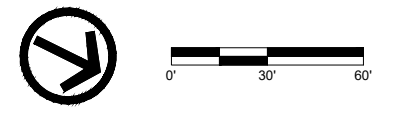
GRADING PLAN & PROFILE

DWG. NO.
D.09
PROJECT
63713



PLOTTED: Tuesday, August 20, 2024 10:25:33 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

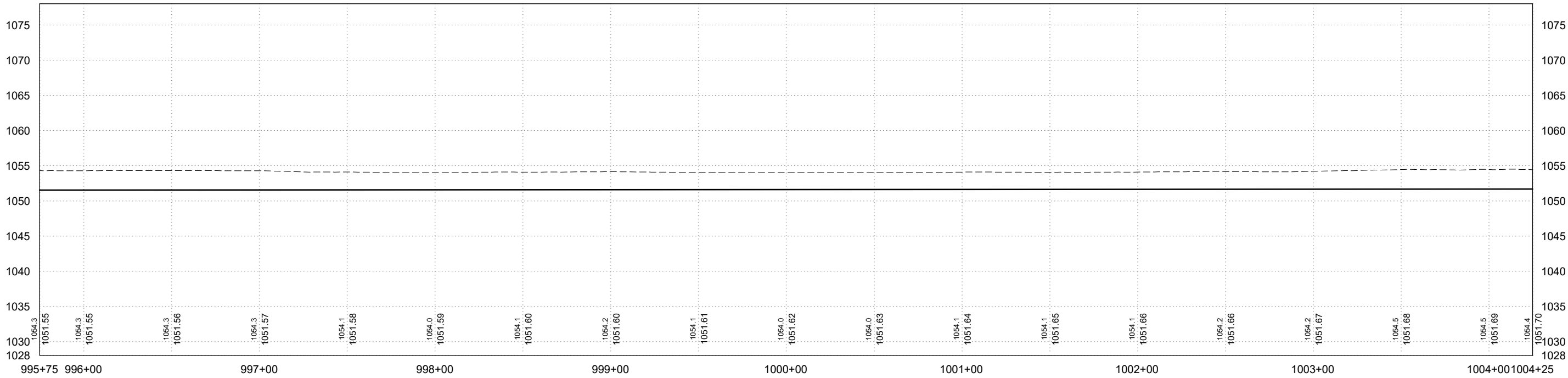
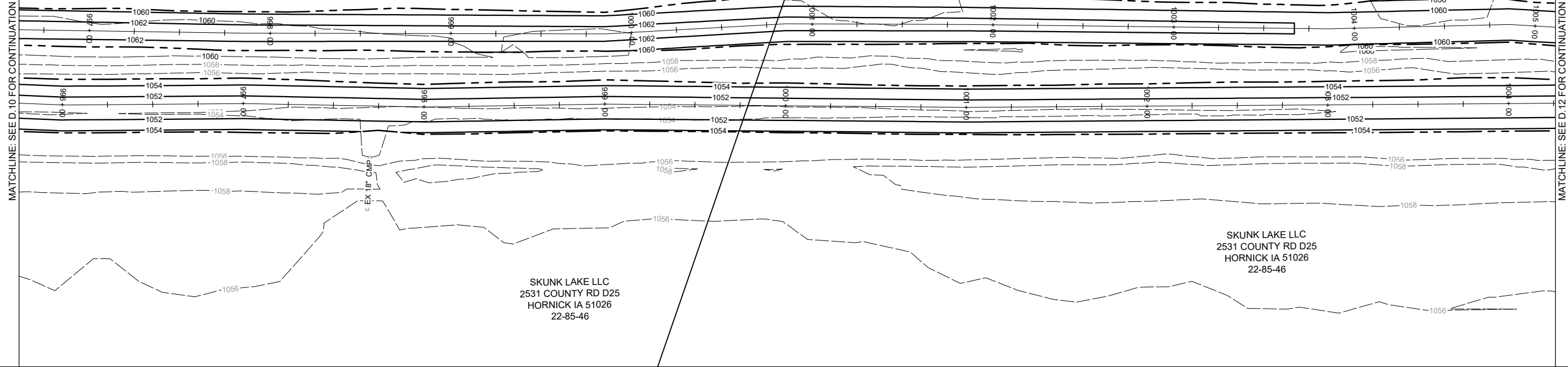
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.
D.10
PROJECT
63713

PLOTTED: Tuesday, August 20, 2024 9:46:39 AM

X-REFS: ALL PTS & 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\0600037-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D02-D11



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

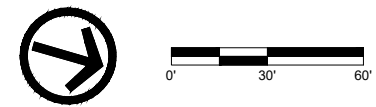
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**GRADING PLAN & PROFILE**

DWG. NO.
D.11
PROJECT 63713

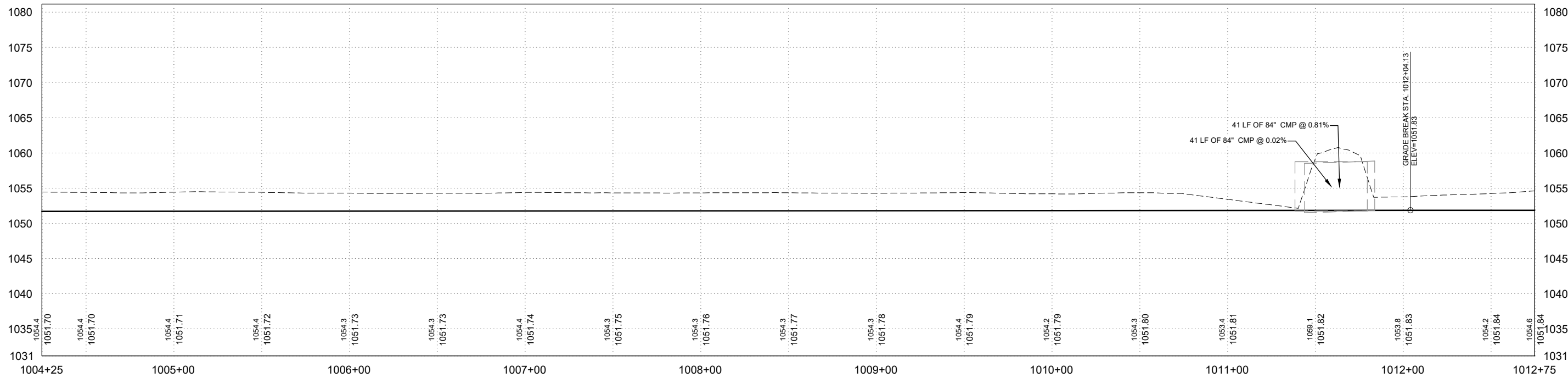
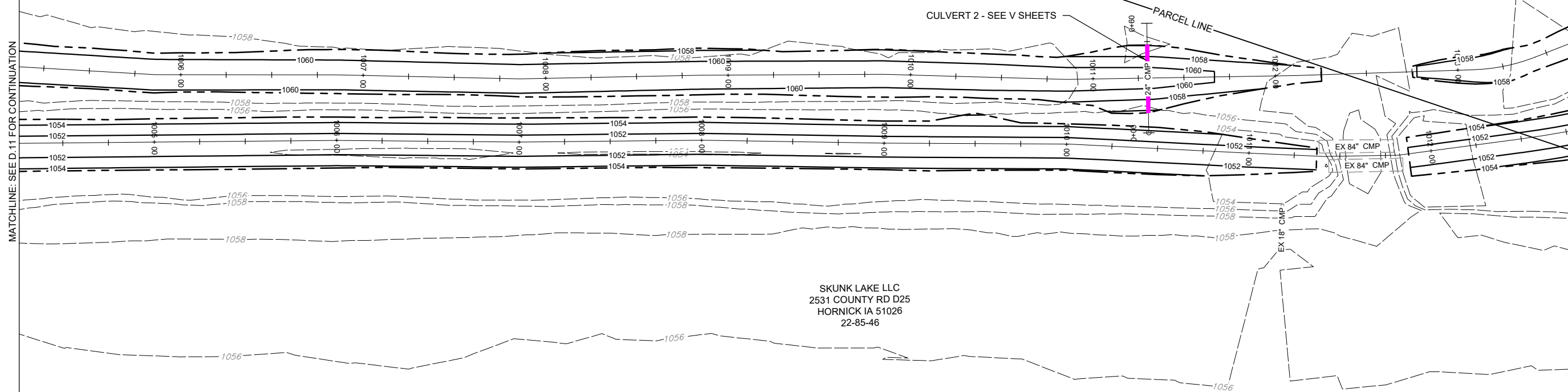
SKUNK LAKE LLC  
2531 COUNTY RD D25  
HORNICK IA 51026  
22-85-46

SKUNK LAKE LLC  
2531 COUNTY RD D25  
HORNICK IA 51026  
22-85-46



MATCHLINE: SEE D.11 FOR CONTINUATION

MATCHLINE: SEE D.13 FOR CONTINUATION



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

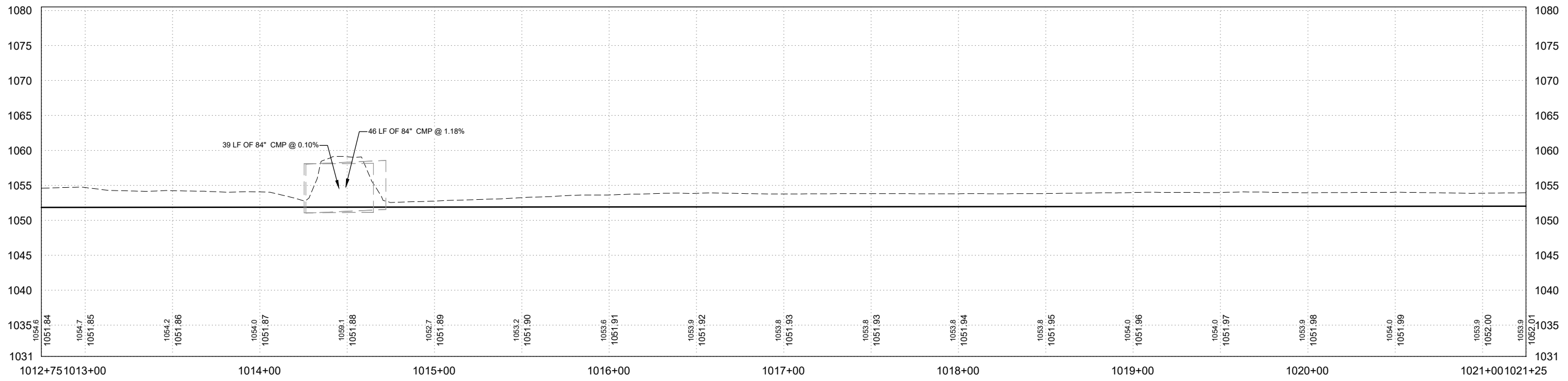
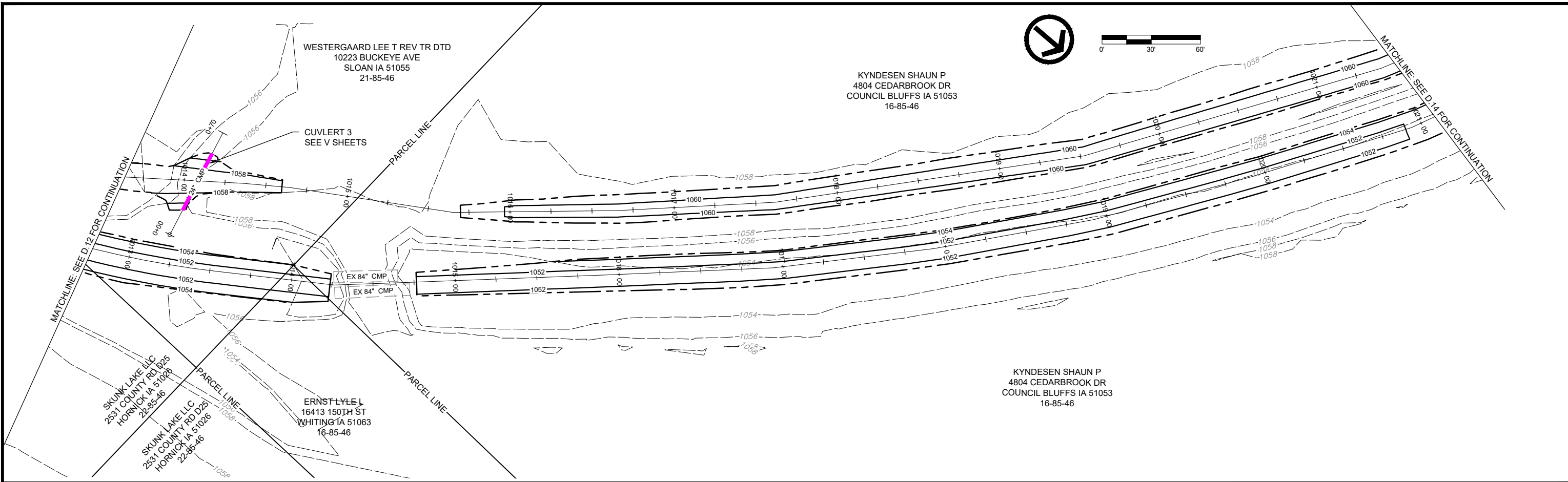
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**GRADING PLAN & PROFILE**

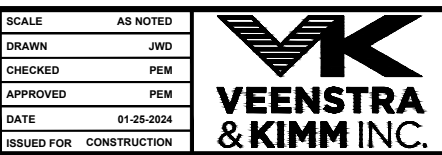
DWG. NO.	D.12
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:47:59 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

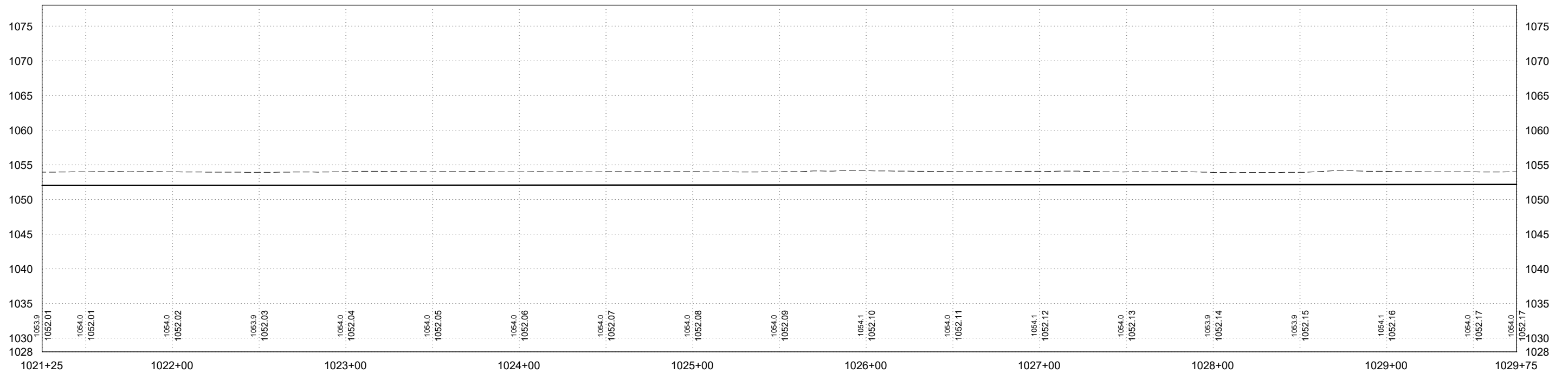
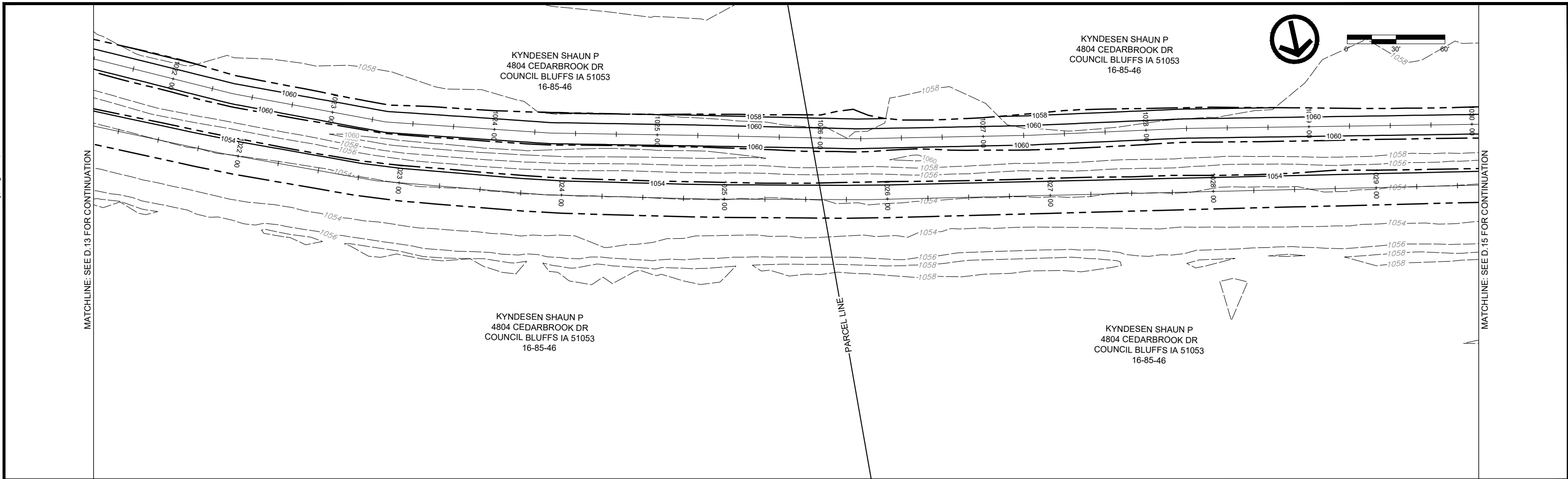
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

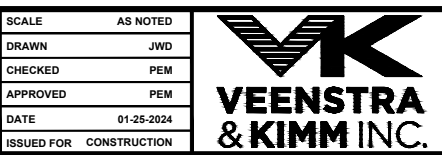
DWG. NO.
D.13
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:48:14 AM

X-REFS: 63713 PROPERTY  
FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

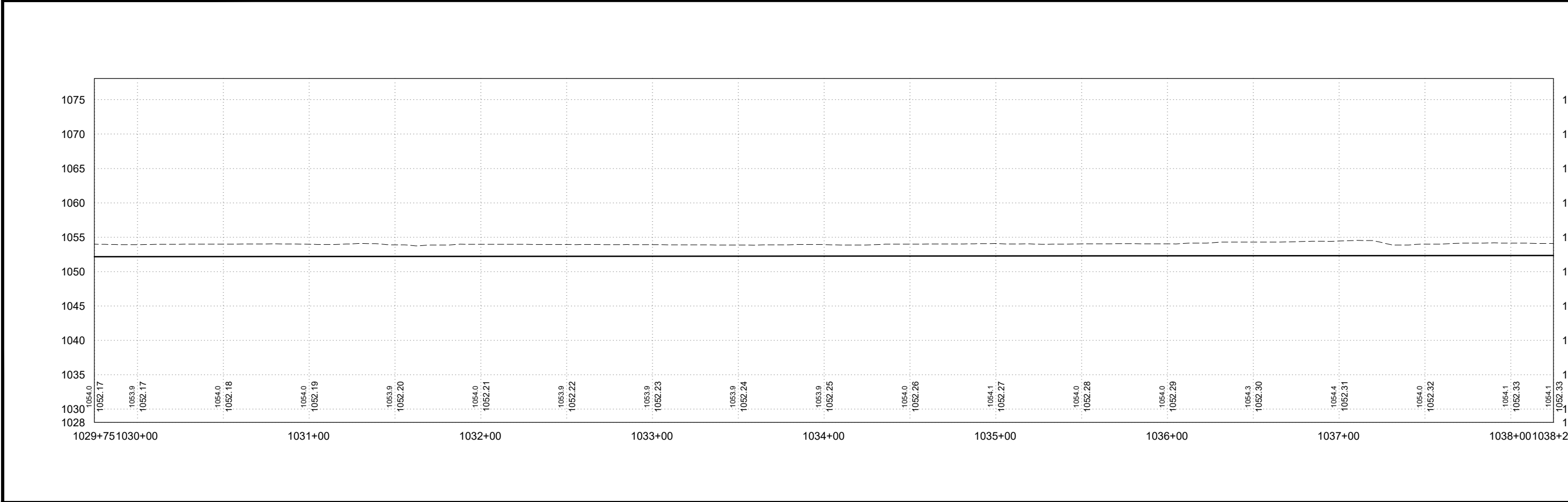
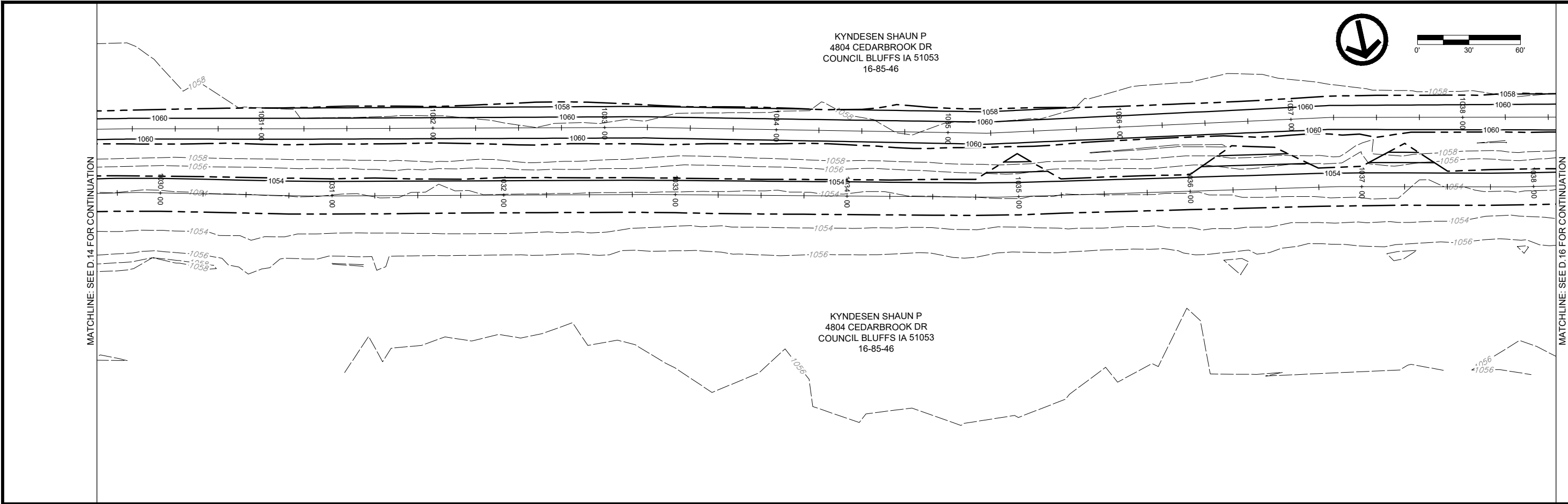
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.
D.14
PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:48:28 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



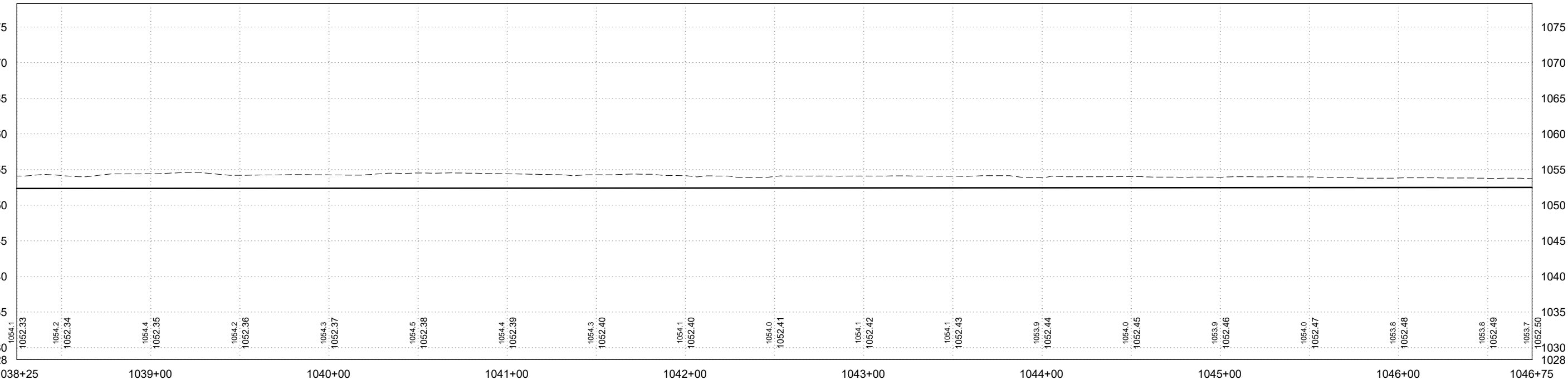
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

DWG. NO. D.15

PROJECT 63713

PLOTTED: Tuesday, August 20, 2024 9:48:44 AM



X-REFS: 63713 PROPERTY FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



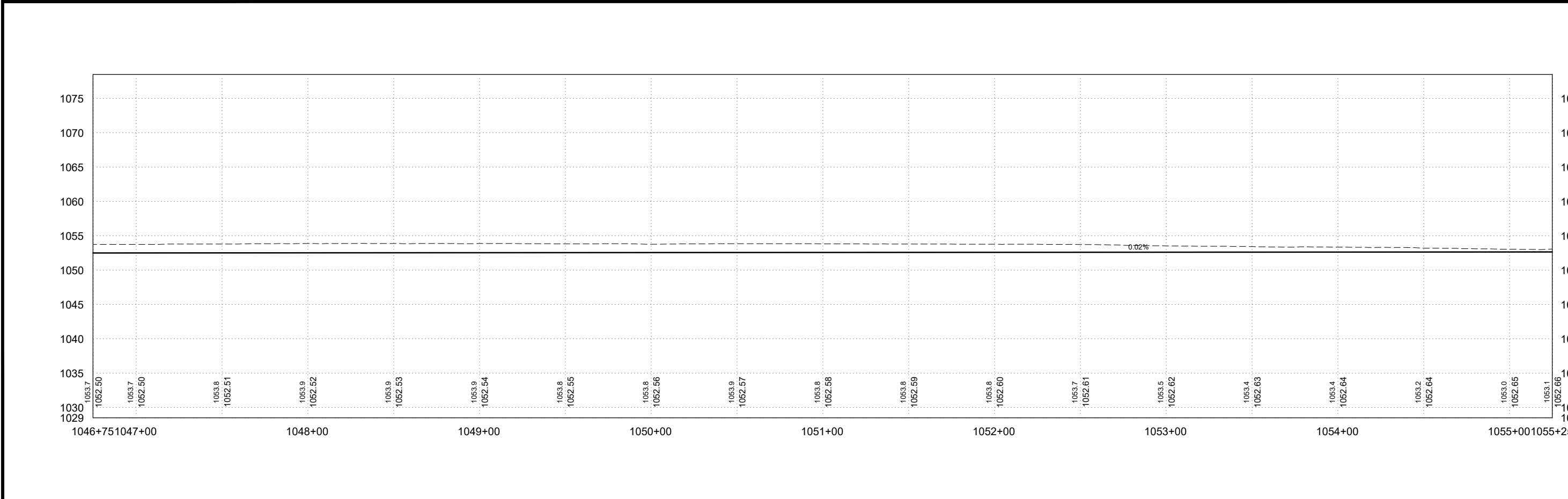
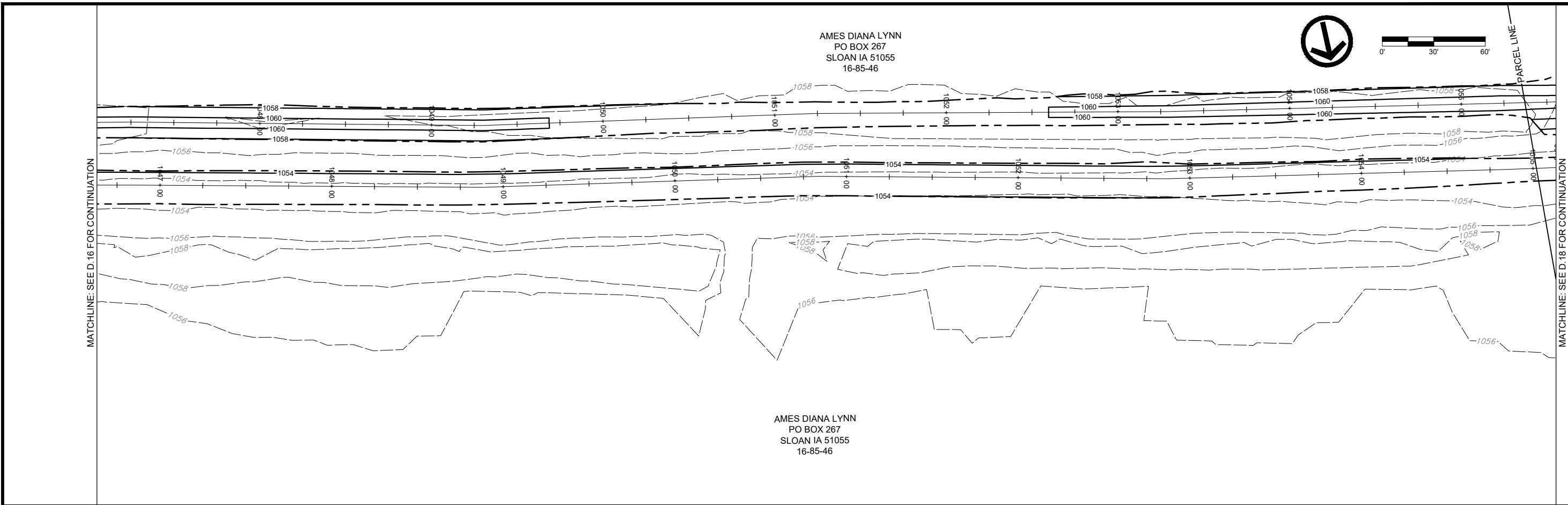
**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**GRADING PLAN & PROFILE**  
 PROJECT **63713**

DWG. NO.	<b>D.16</b>
PROJECT	<b>63713</b>

PLOTTED: Tuesday, August 20, 2024 9:45:00 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21

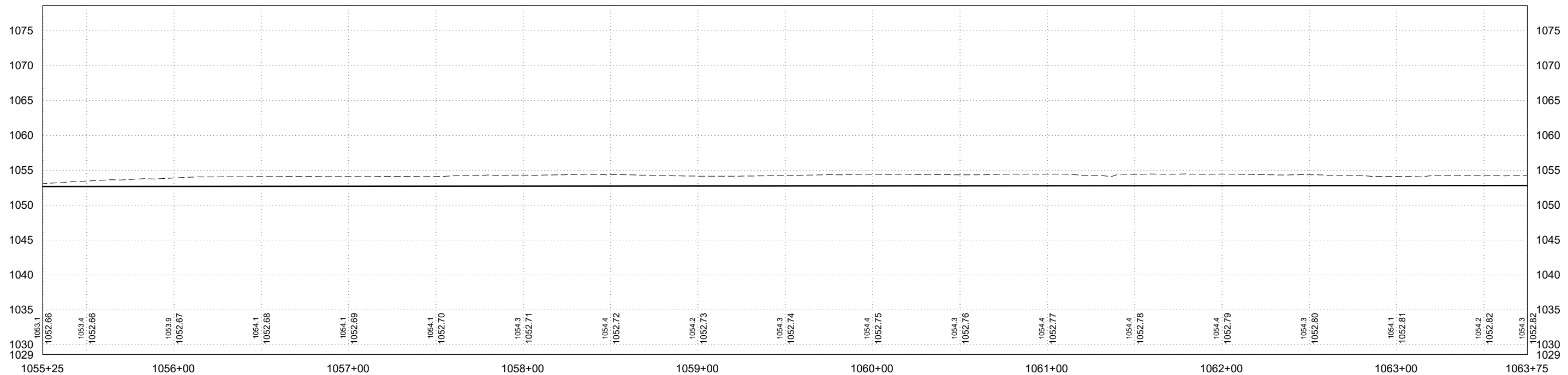
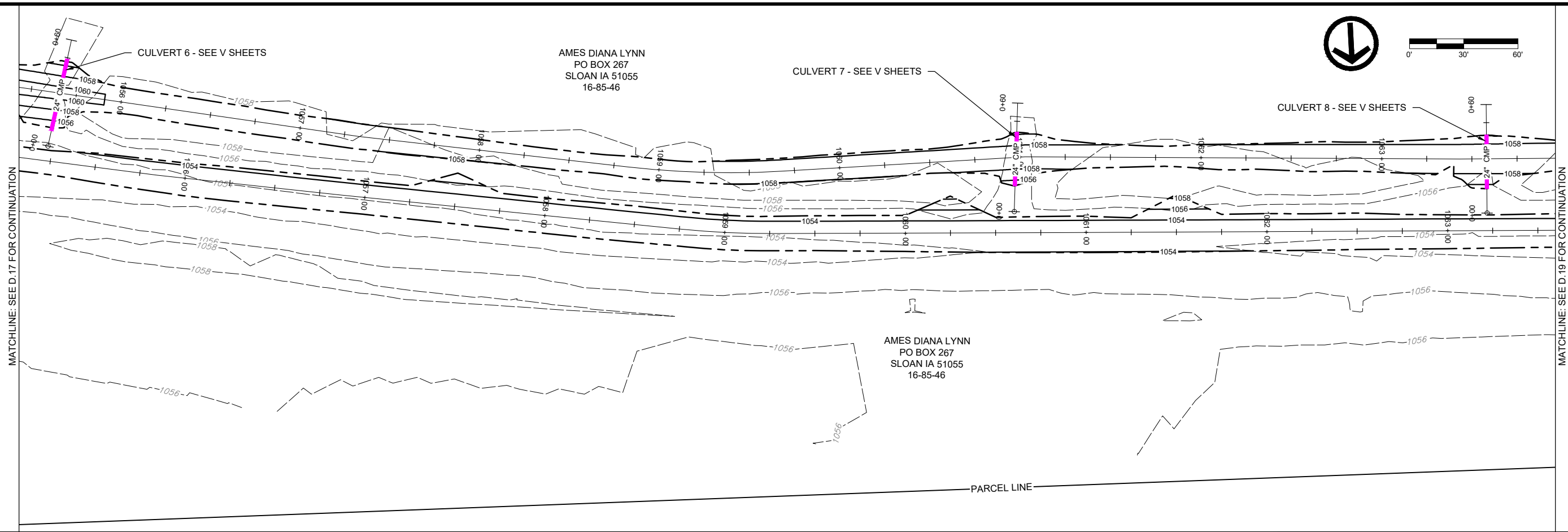
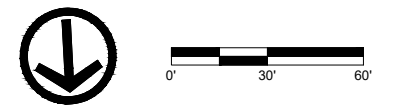


DATE	REVISIONS	SCALE	AS NOTED		<b>MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63</b> <b>MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT</b> 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)	DWG. NO.	
		DRAWN	JWD			<b>GRADING PLAN &amp; PROFILE</b>	<b>D.17</b>
		CHECKED	PEM				
		APPROVED	PEM				
		DATE	01-25-2024				
		ISSUED FOR	CONSTRUCTION	PROJECT	63713		



PLOTTED: Tuesday, August 20, 2024 9:48:15 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

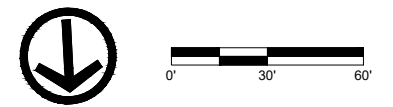
GRADING PLAN & PROFILE

DWG. NO.  
 D.18

PROJECT  
 63713

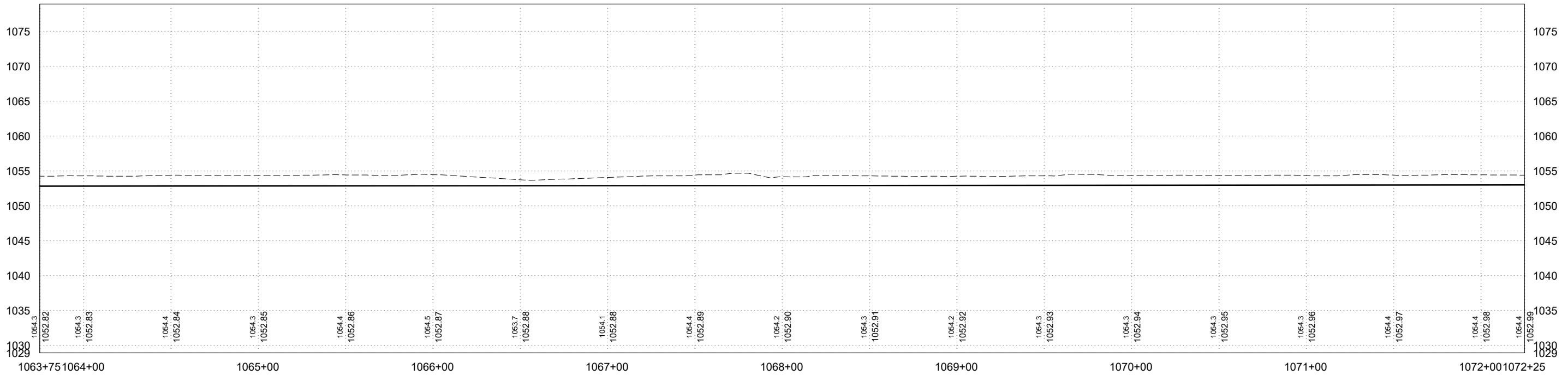
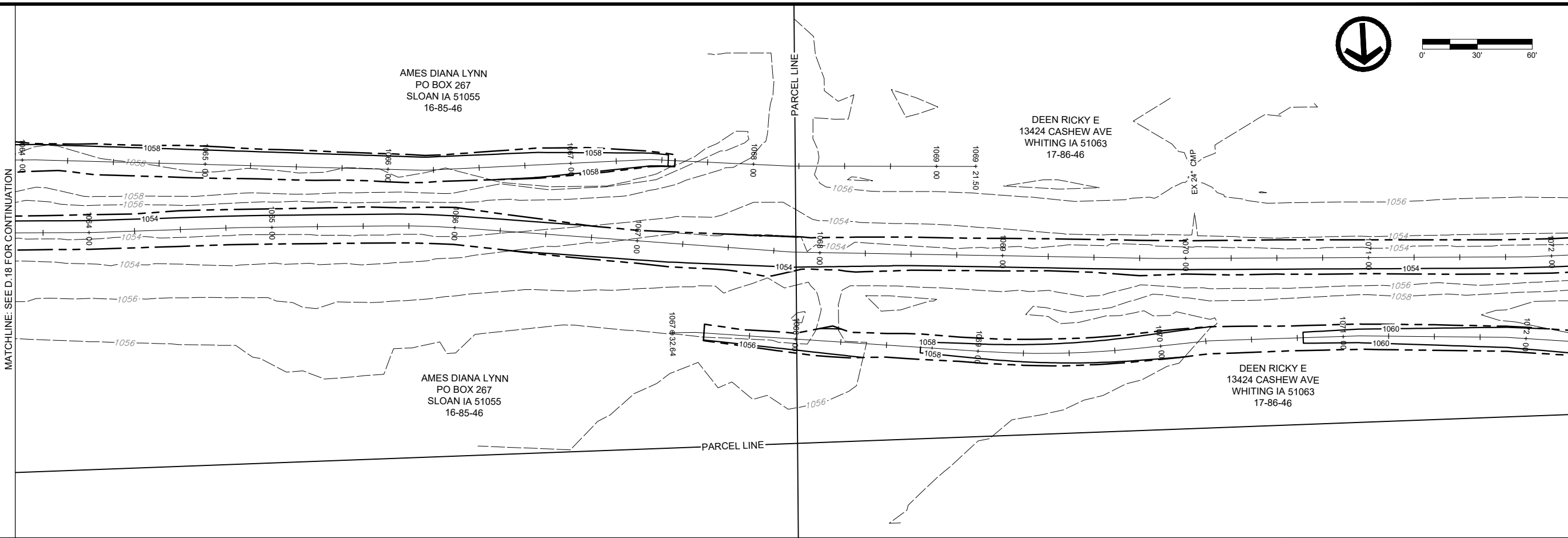
PLOTTED: Tuesday, August 20, 2024 9:45:29 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



MATCHLINE: SEE D.18 FOR CONTINUATION

MATCHLINE: SEE D.20 FOR CONTINUATION



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



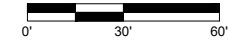
**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**GRADING PLAN & PROFILE**

DWG. NO.	D.19
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:48:44 AM



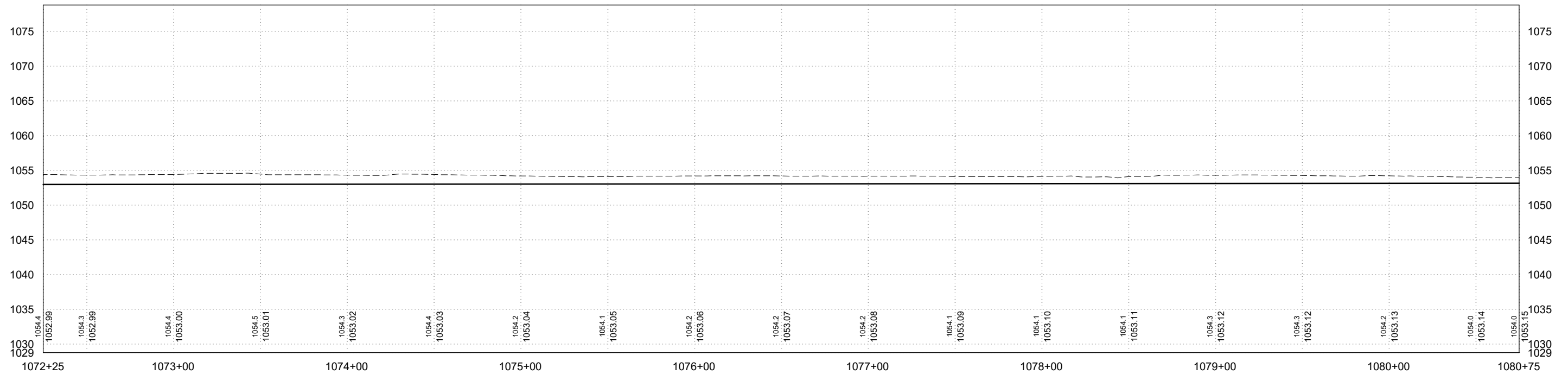
MATCHLINE: SEE D.19 FOR CONTINUATION

MATCHLINE: SEE D.21 FOR CONTINUATION

DEEN RICKY E  
13424 CASHEW AVE  
WHITING IA 51063  
17-86-46

DEEN RICKY E  
13424 CASHEW AVE  
WHITING IA 51063  
17-86-46

PARCEL LINE



X-REFS: 63713 PROPERTY  
FILE PATH: \\KCC-FS\KCCSHARE\060000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.

D.20

PROJECT 63713

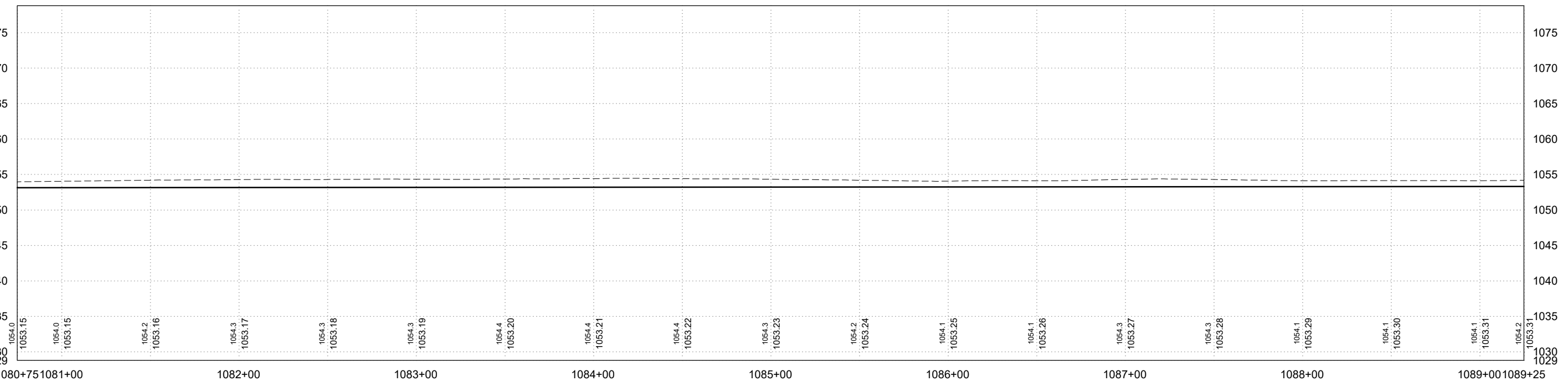
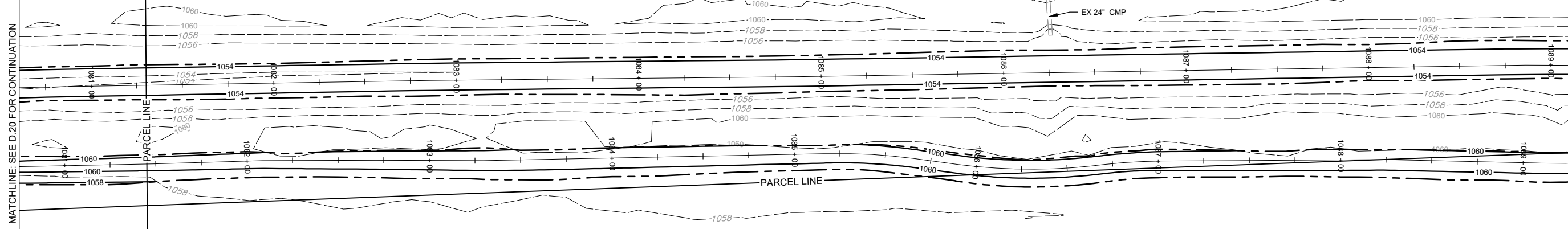
PLOTTED: Tuesday, August 20, 2024 9:45:59 AM

X-REFS: 63713 PROPERTY  
 FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D12-D21



DEEN RICKY E  
 13424 CASHEW AVE  
 WHITING IA 51063  
 17-86-46

DEEN RICKY E  
 13424 CASHEW AVE  
 WHITING IA 51063  
 17-86-46



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



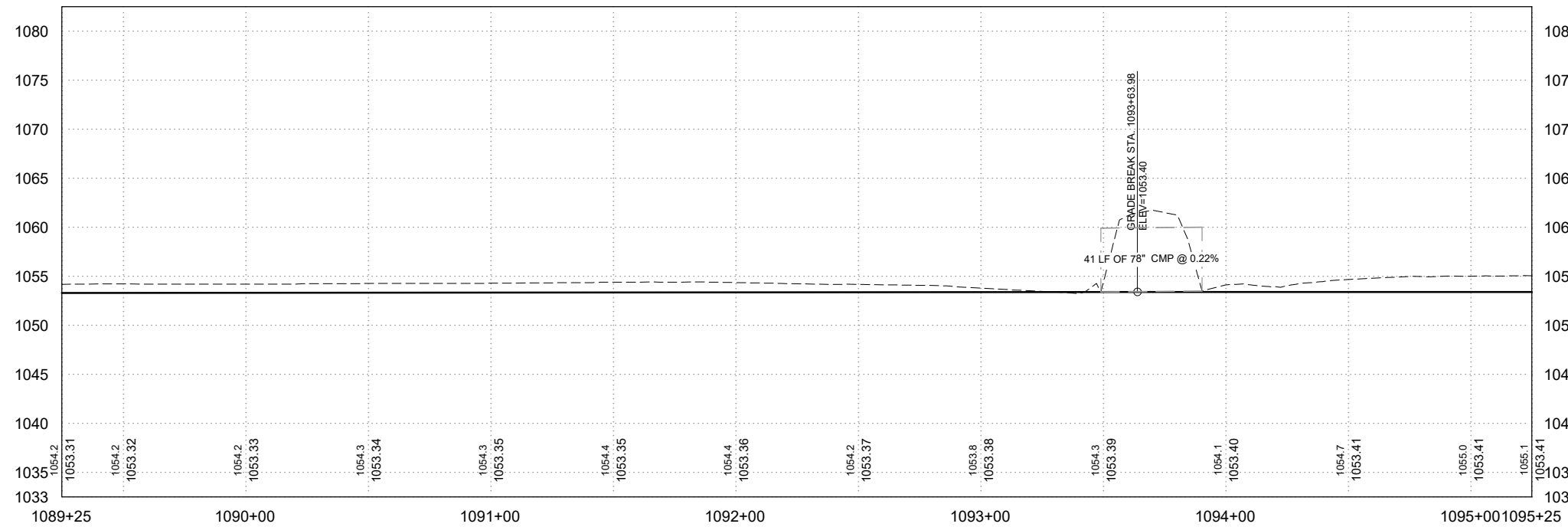
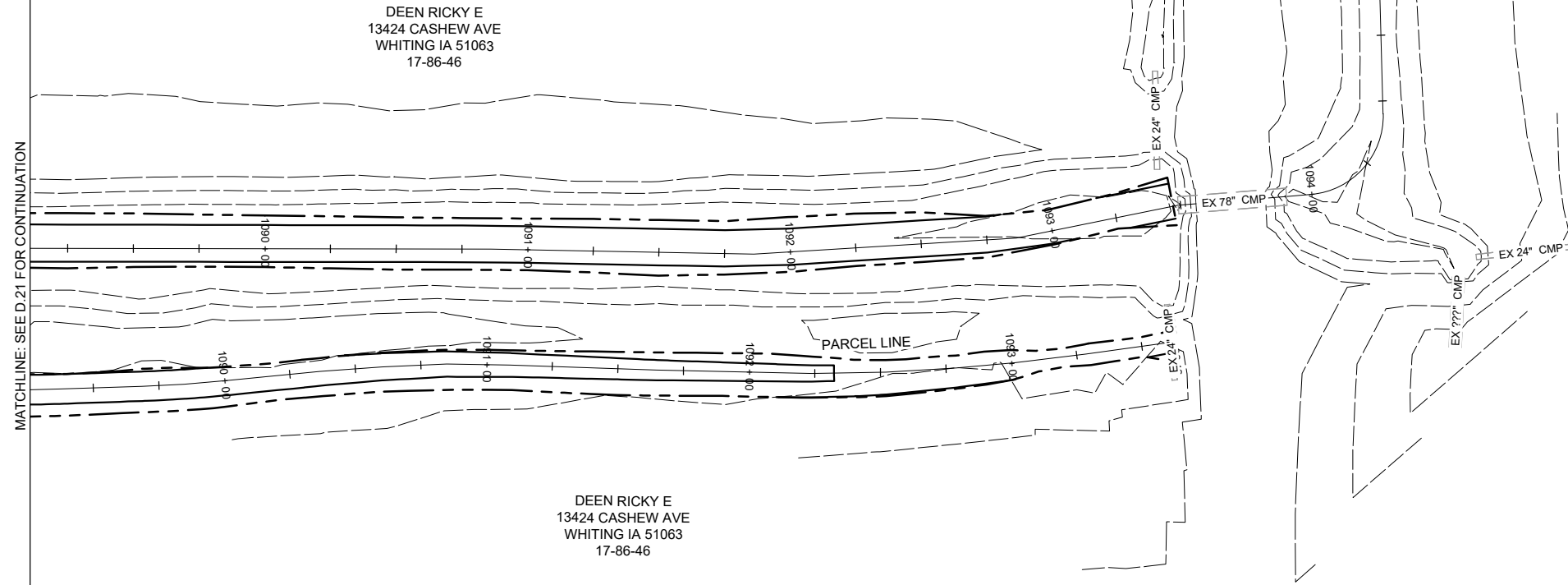
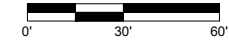
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

GRADING PLAN & PROFILE

DWG. NO.	D.21
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:50:51 AM



X-REFS: 63713 PROPERTY

FILE PATH: \\KVC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 D22-D31

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**

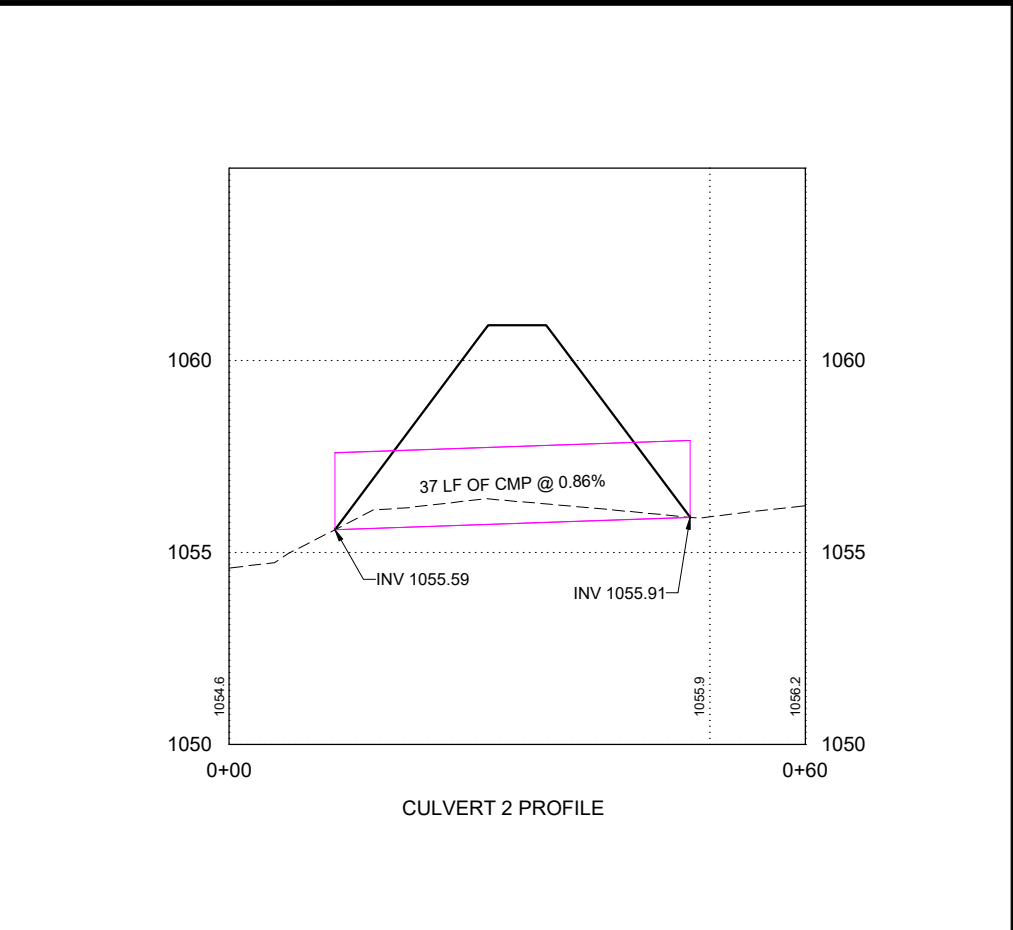
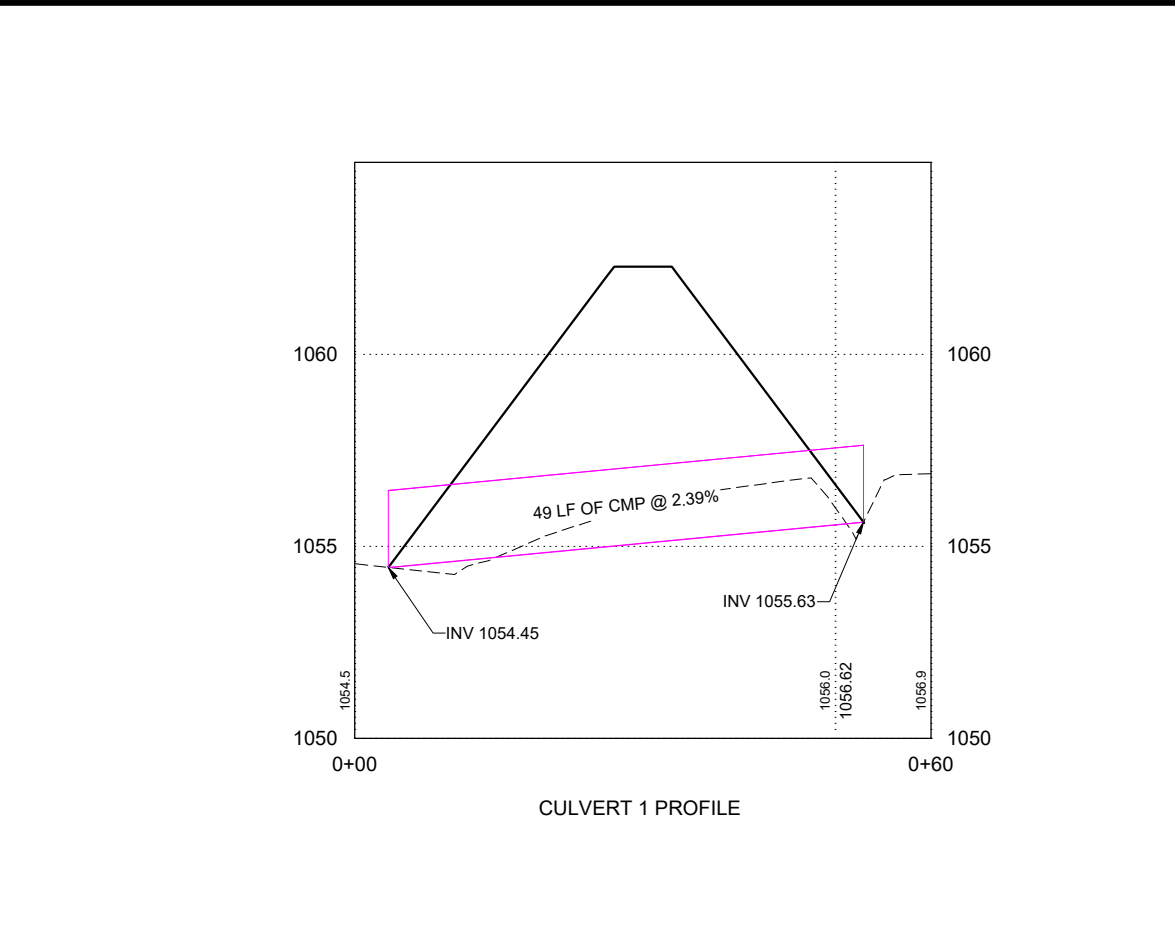
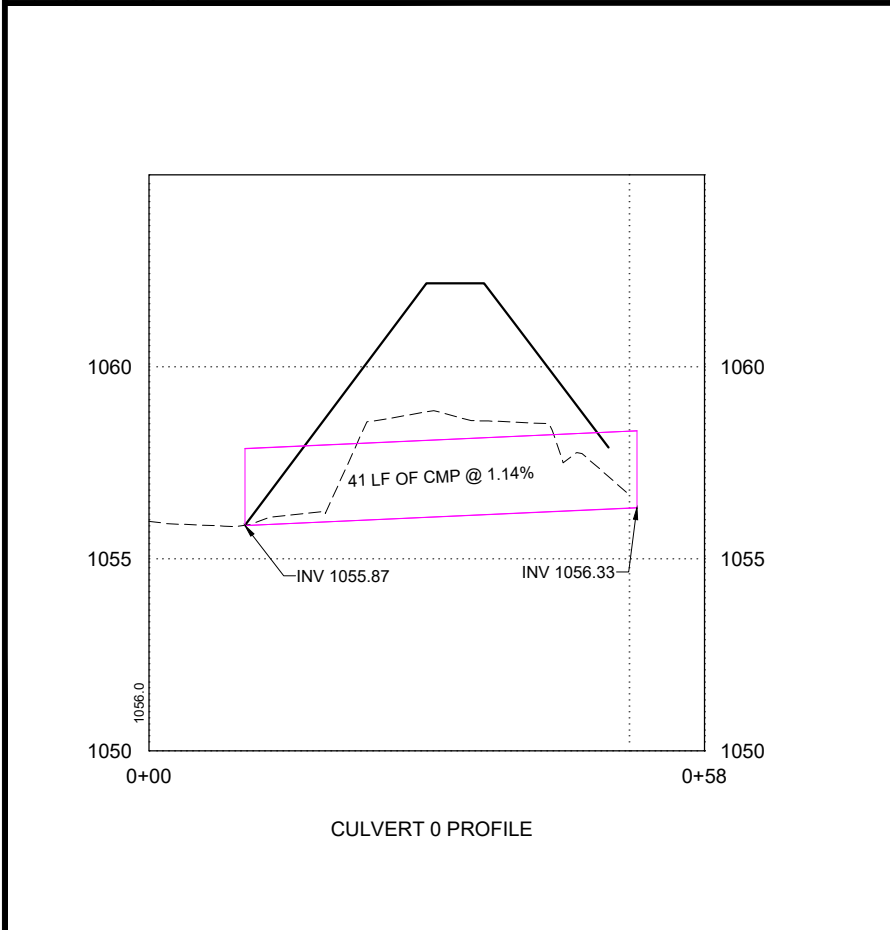
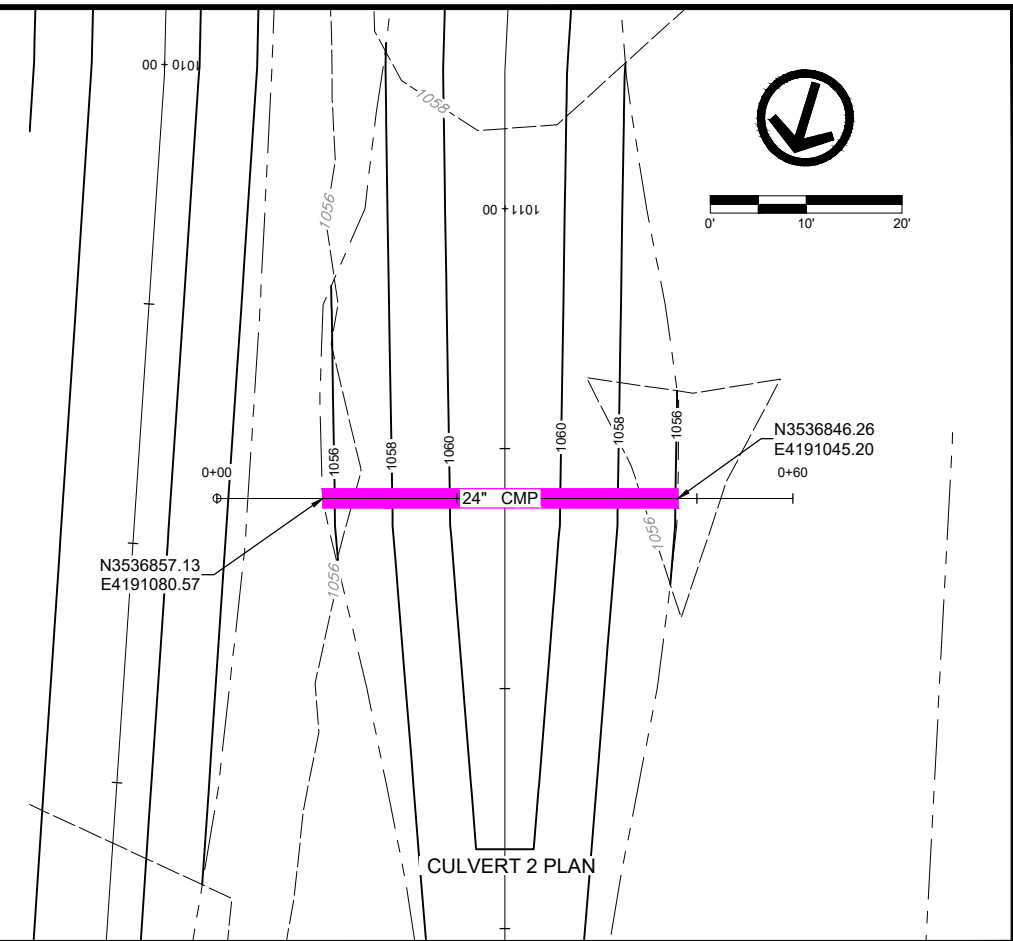
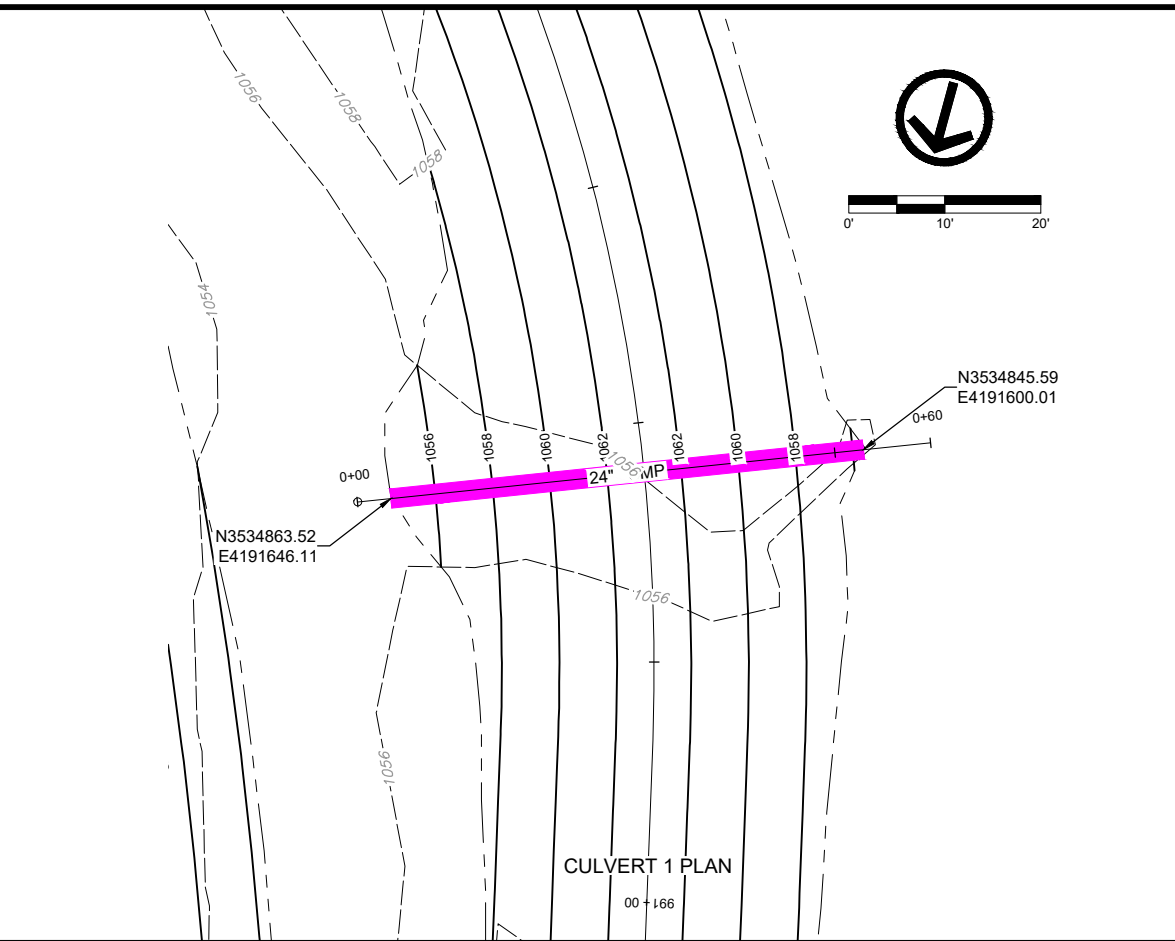
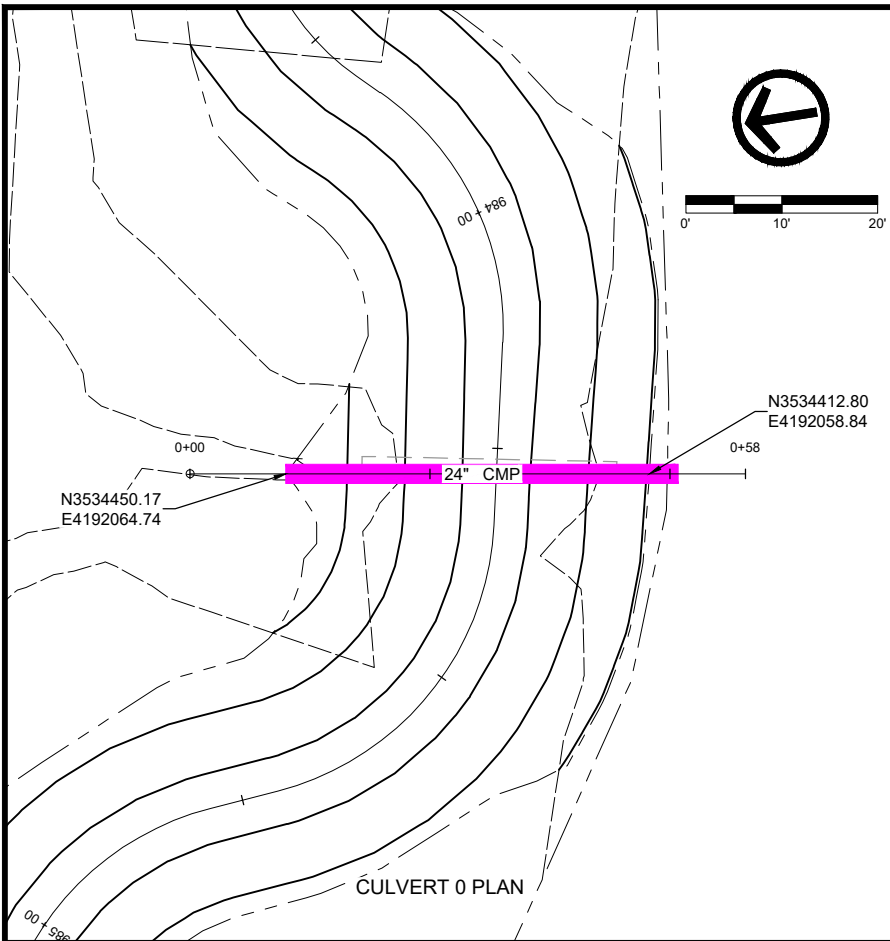
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**GRADING PLAN & PROFILE**

DWG. NO.	D.22
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 10:25:08 AM

X-REFS: FILE PATH: \\KCC-FS\KCSHARE\06000837-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 V01-V03



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

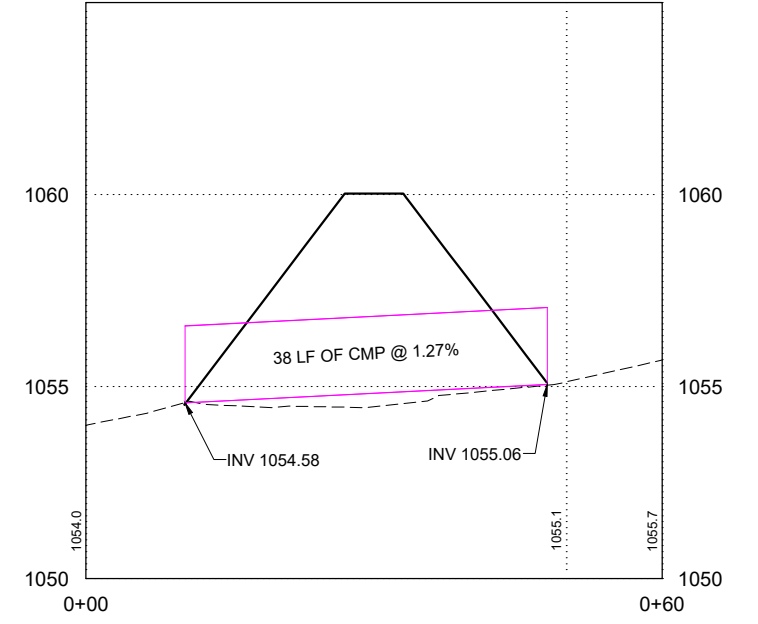
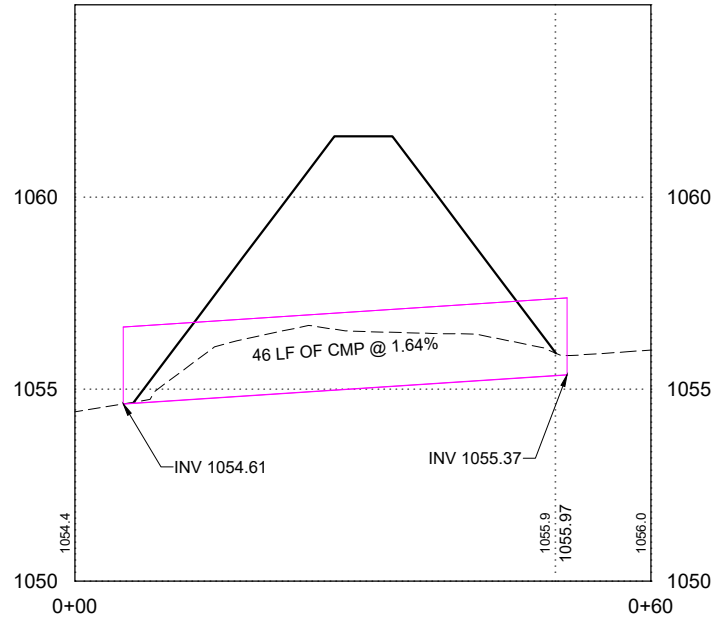
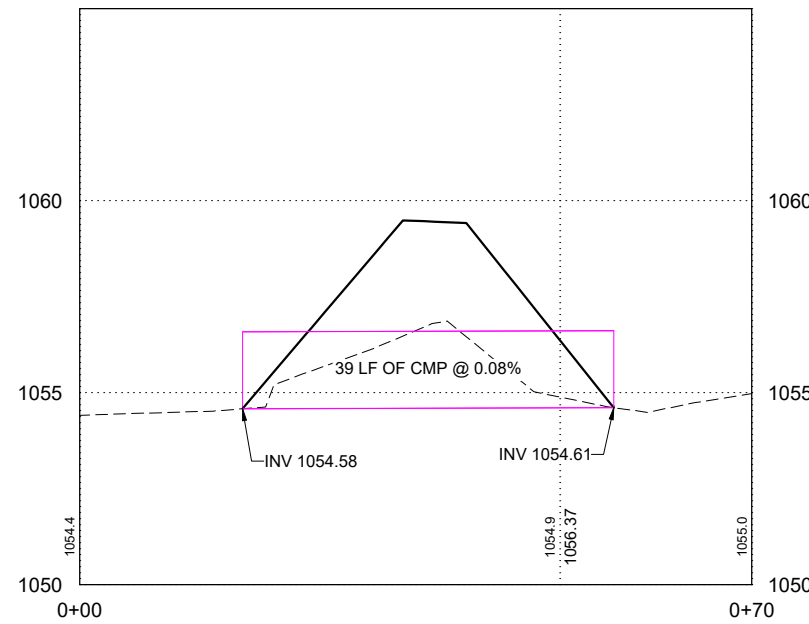
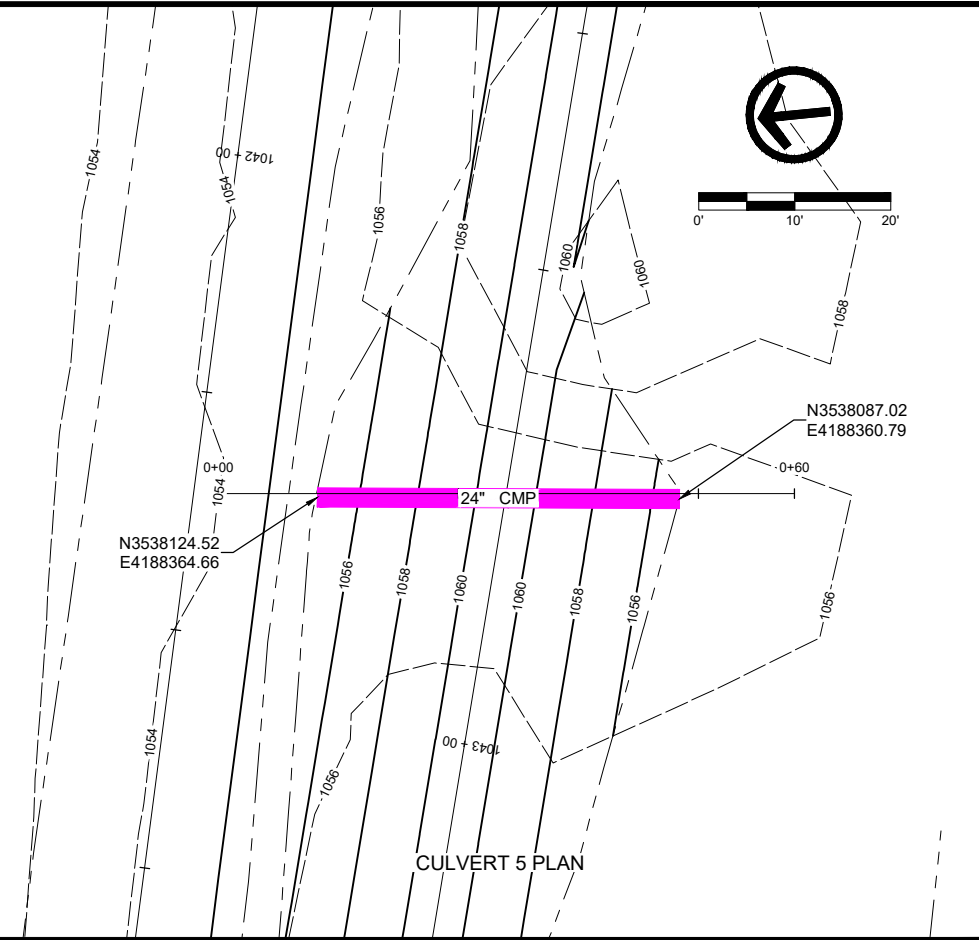
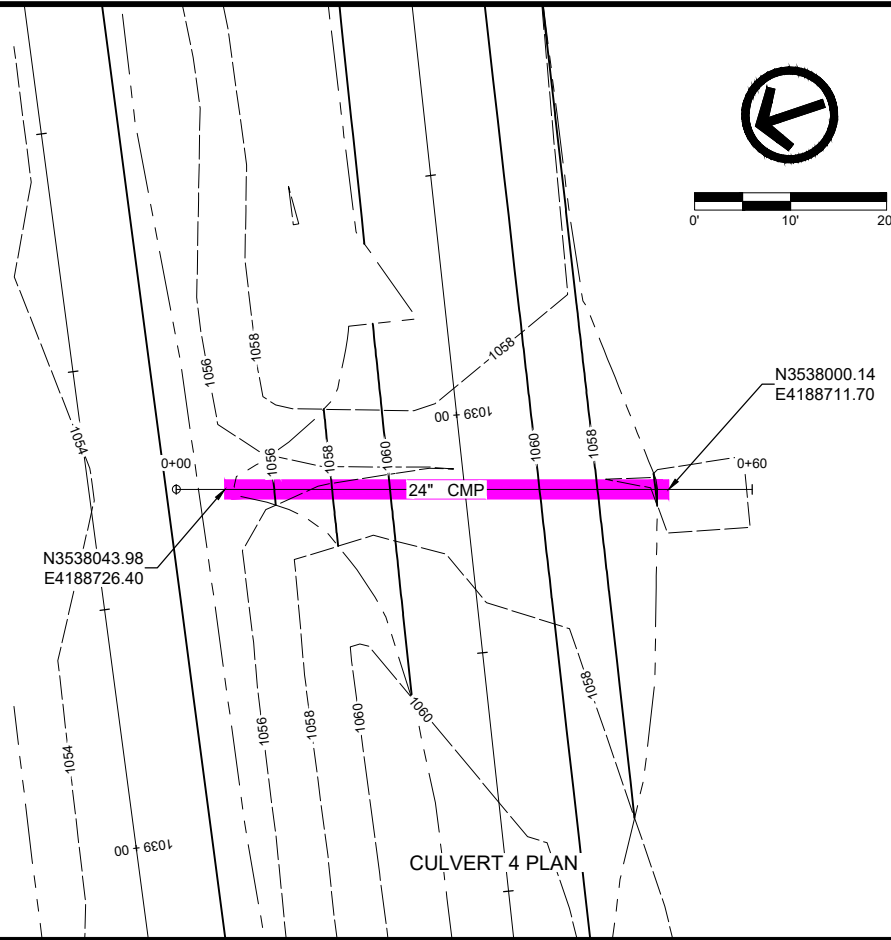
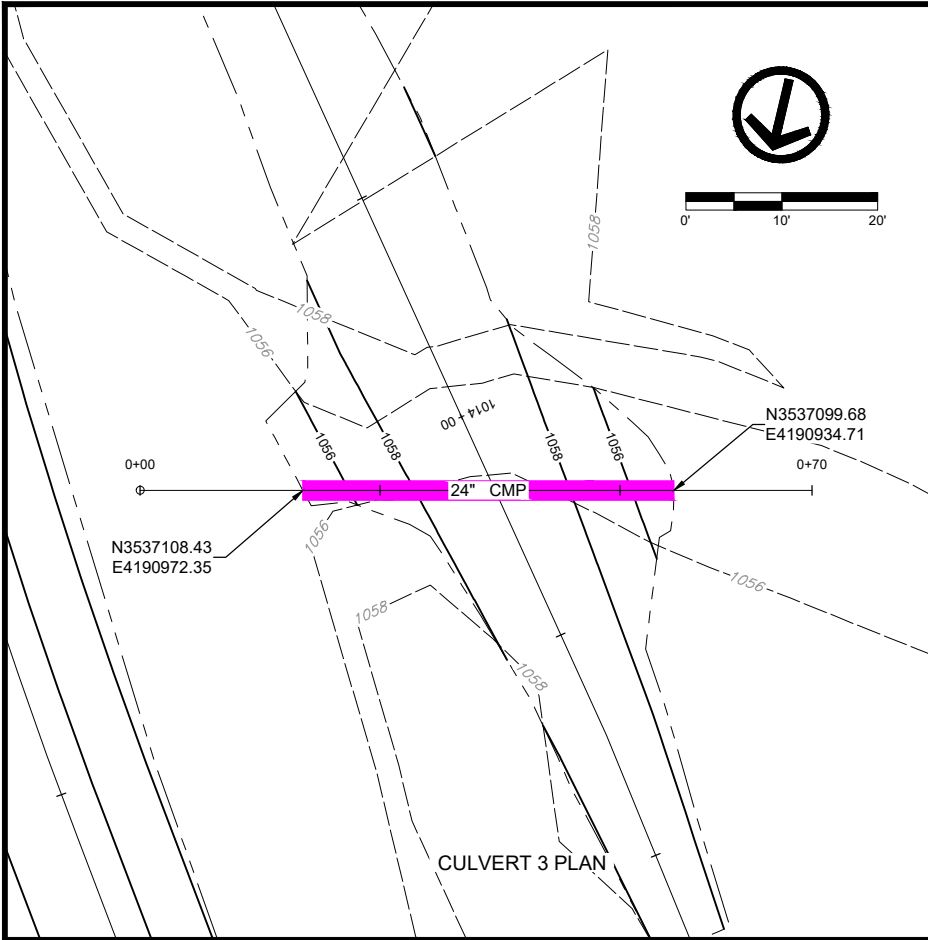


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT  
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

DWG. NO.	V.01
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:52:11 AM

X-REFS: FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013\_V01-V03



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

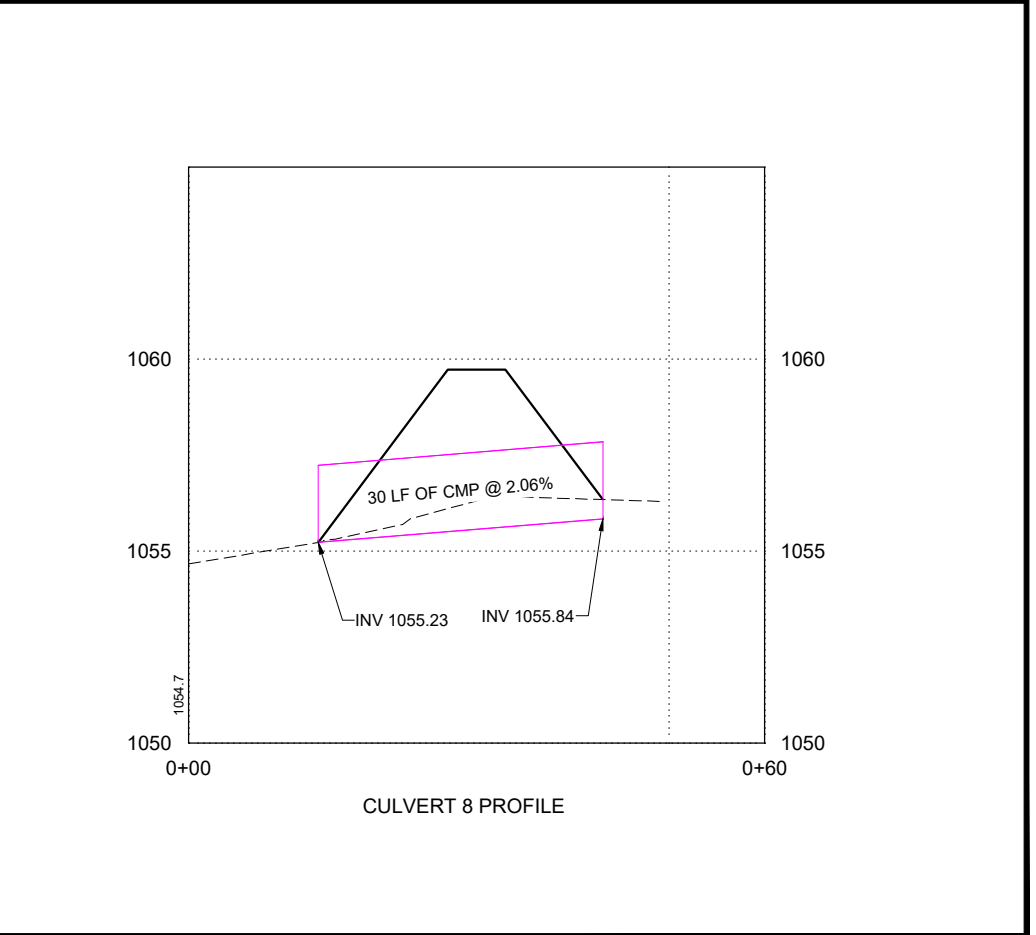
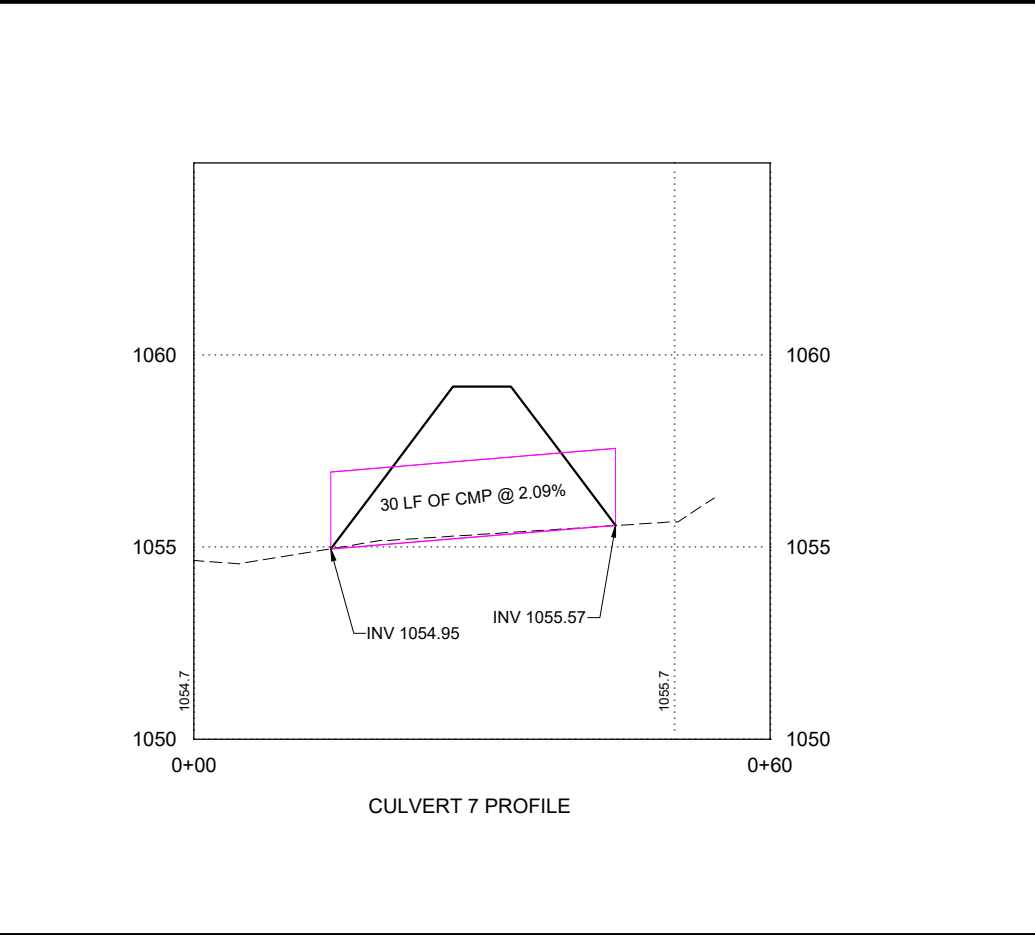
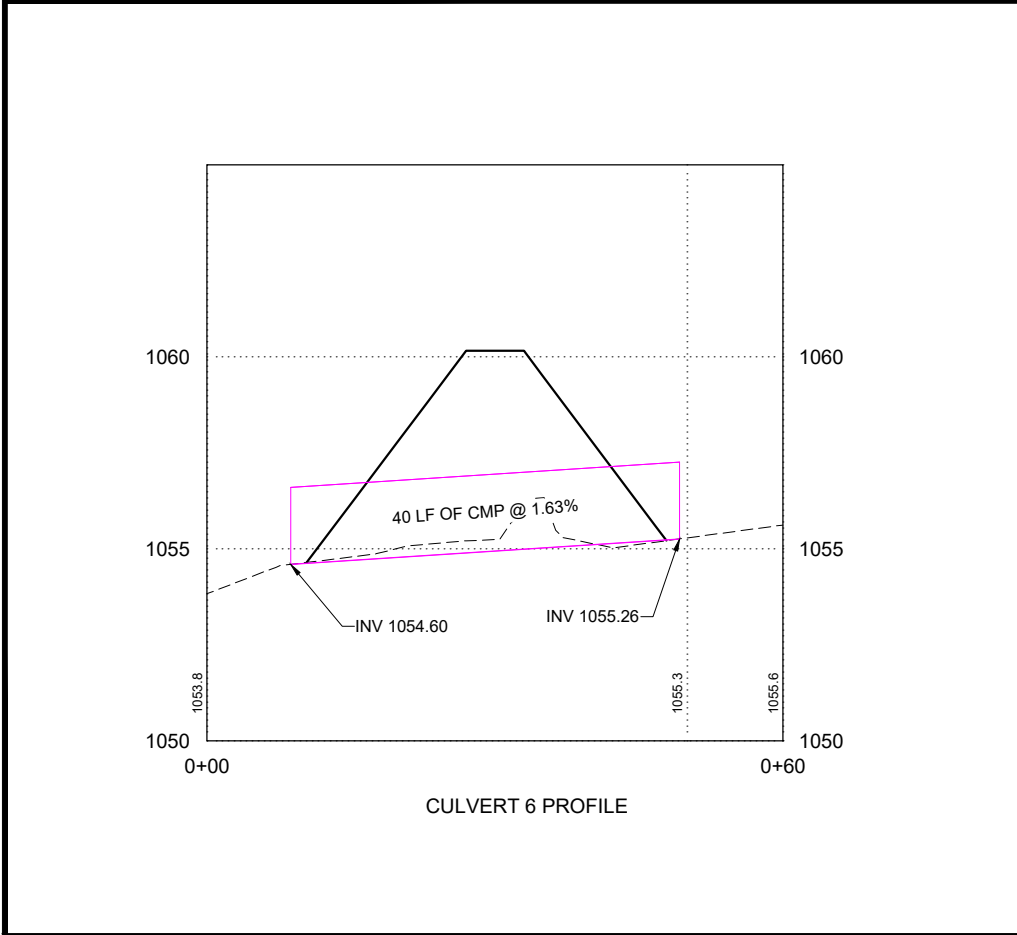
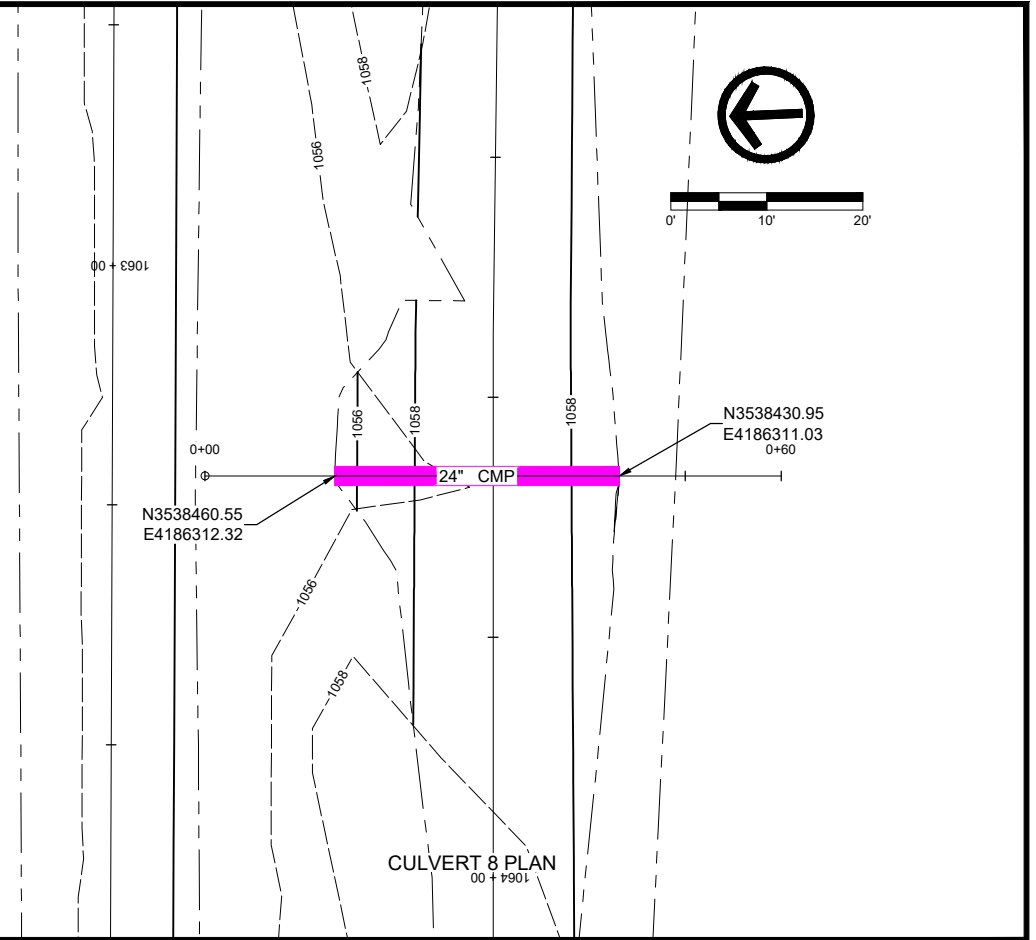
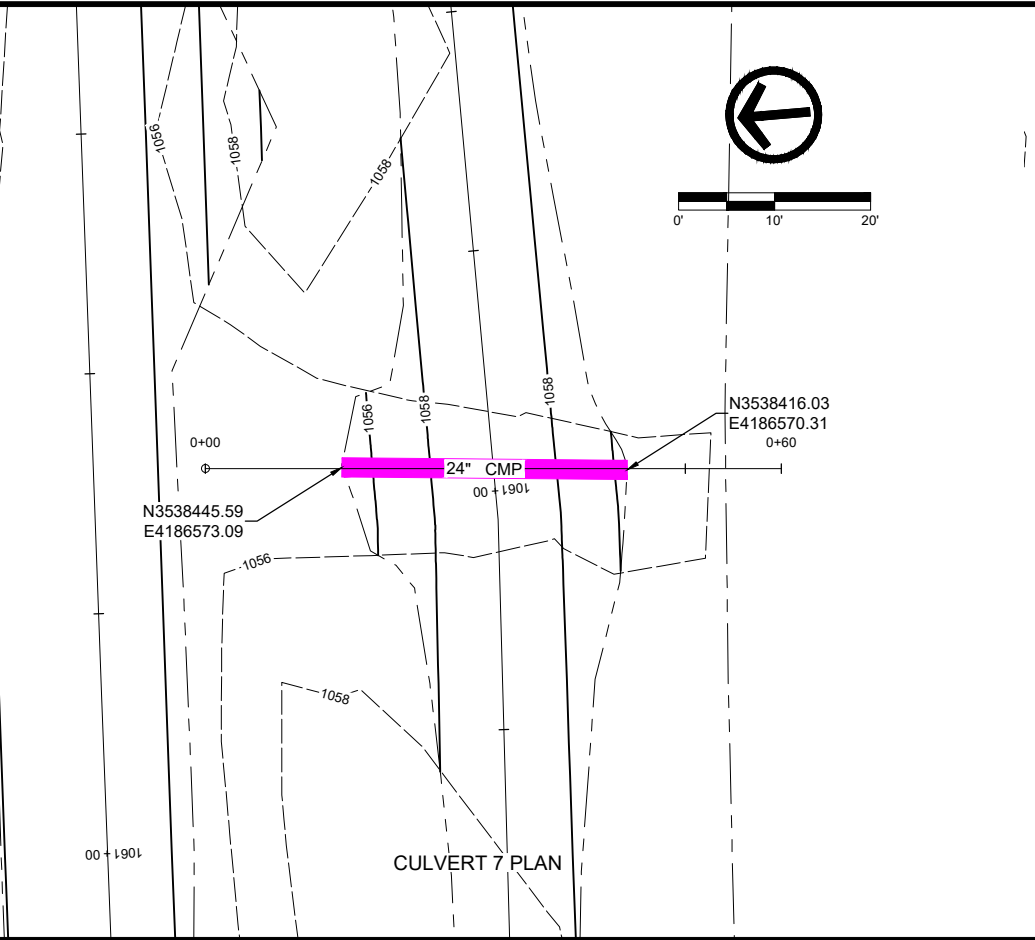
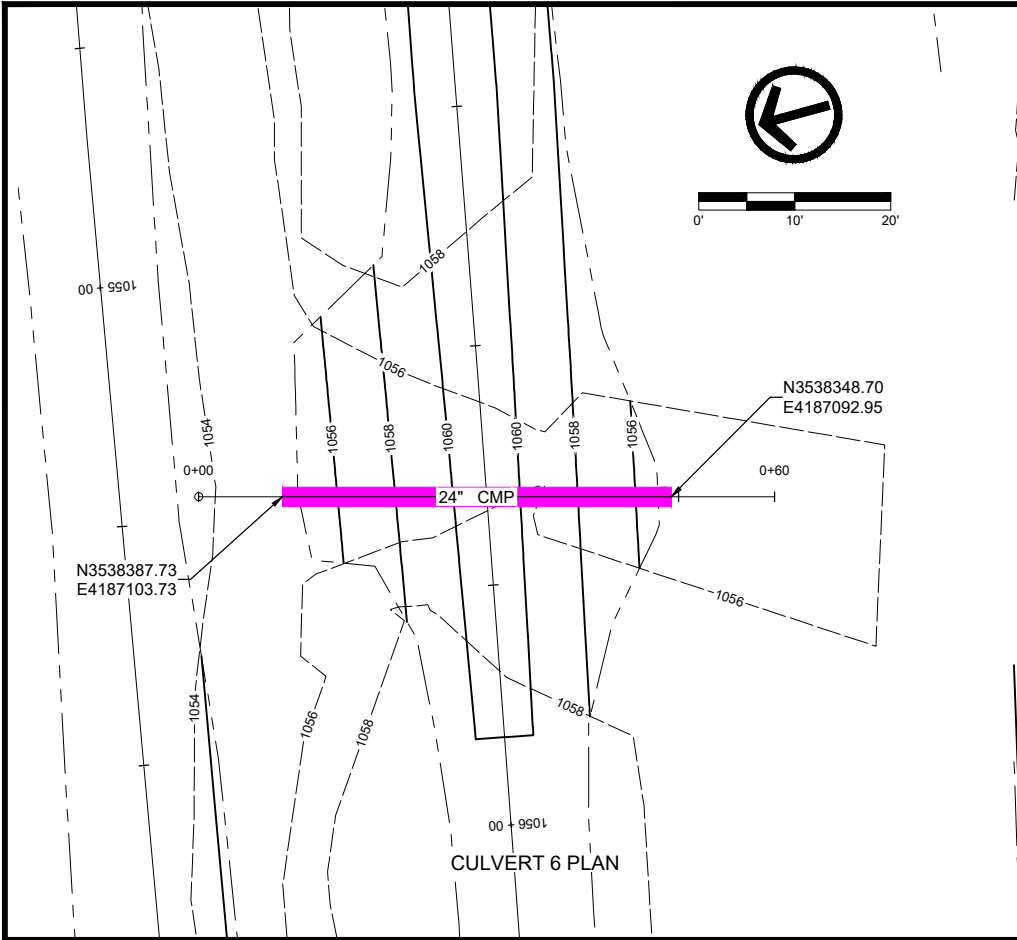
203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CULVERT PLAN & PROFILE

DWG. NO.	V.02
PROJECT	63713

PLOTTED: Tuesday, August 20, 2024 9:52:30 AM

X-REFS: FILE PATH: \\VKKC-FS\KCSHARE\06000637-MCCANDLESS\_DD\0637-0013\_CLEANOUT\_MAIN\_DITCH\_STA\_922+00-1187+80\CADD\_PRODDRAWINGS\06370013 V01-V03



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



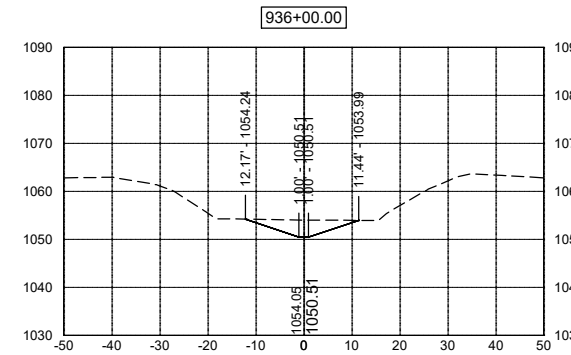
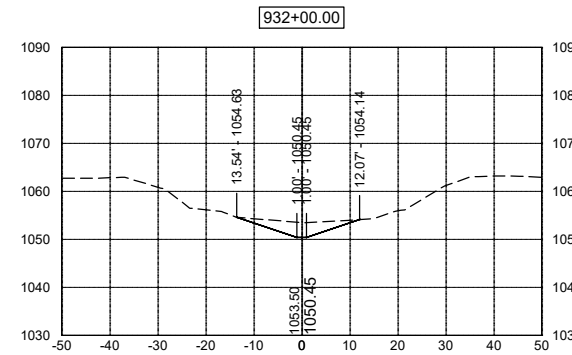
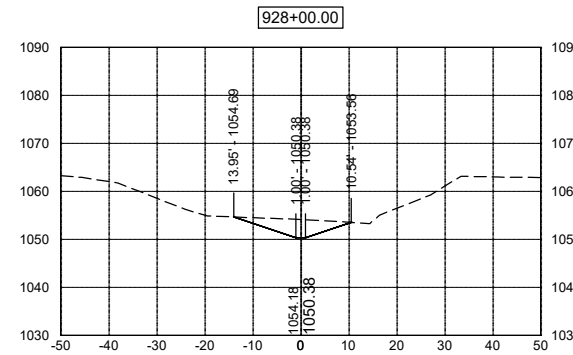
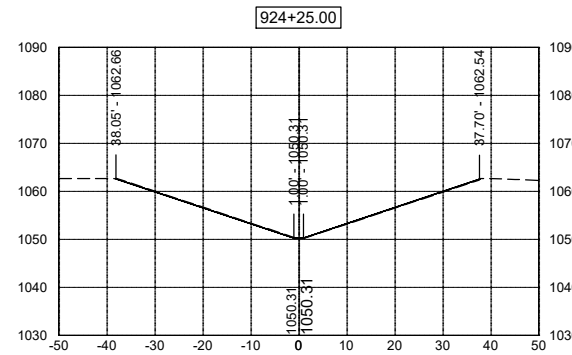
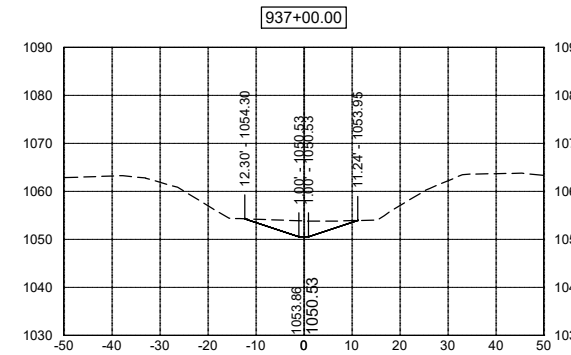
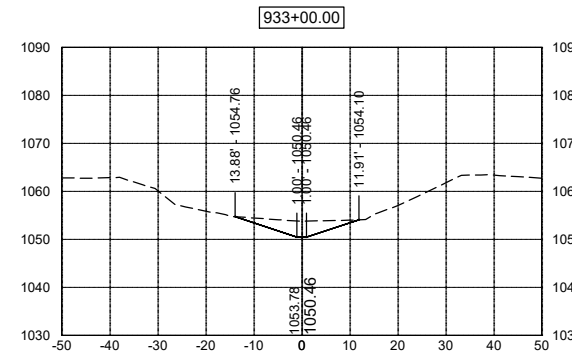
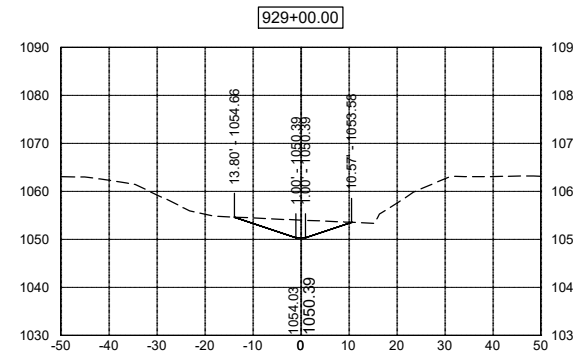
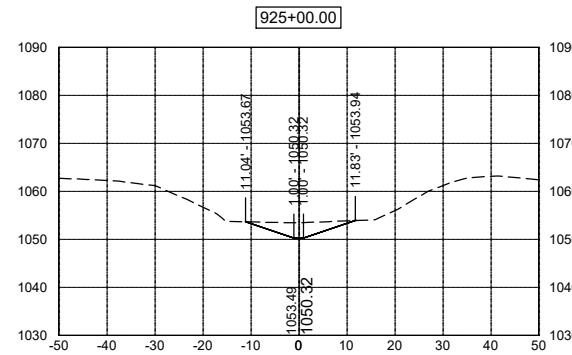
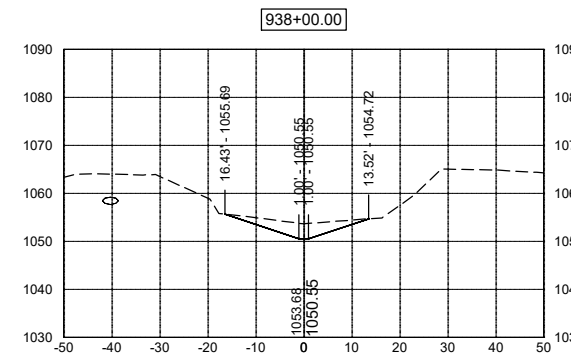
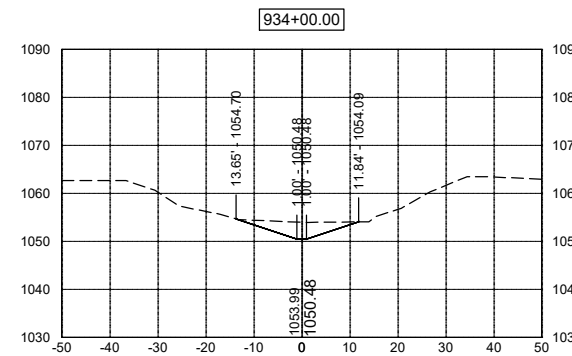
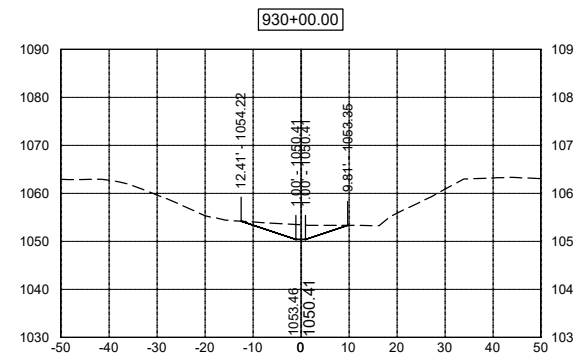
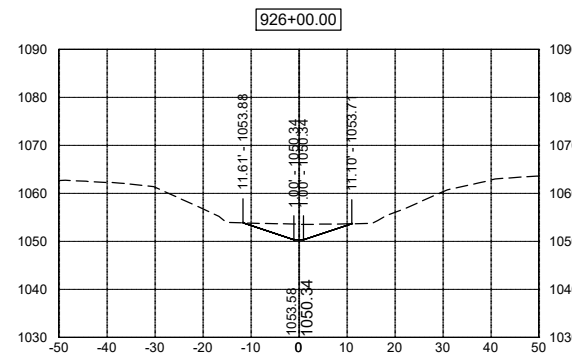
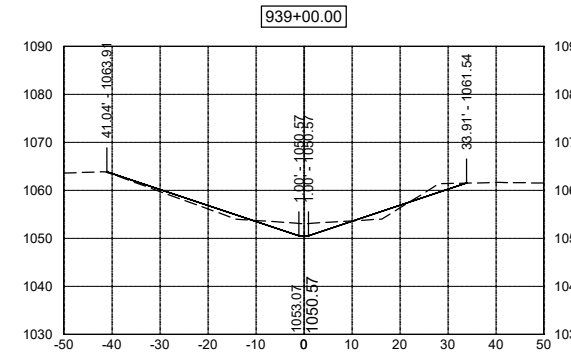
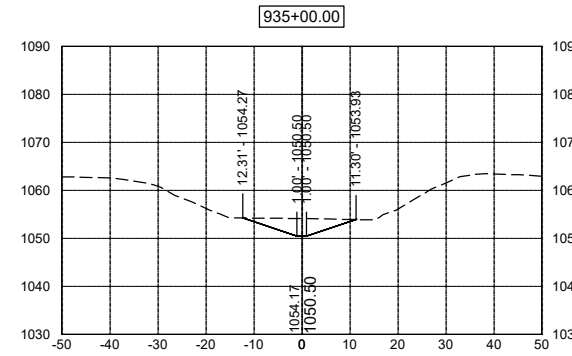
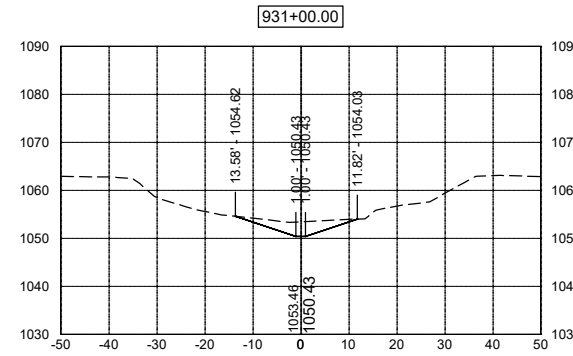
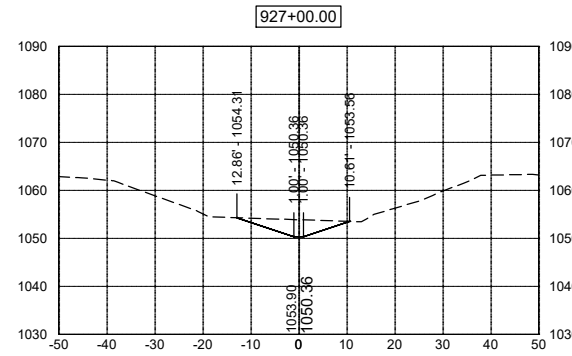
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CULVERT PLAN & PROFILE

DWG. NO.	V.03
PROJECT	63713





DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

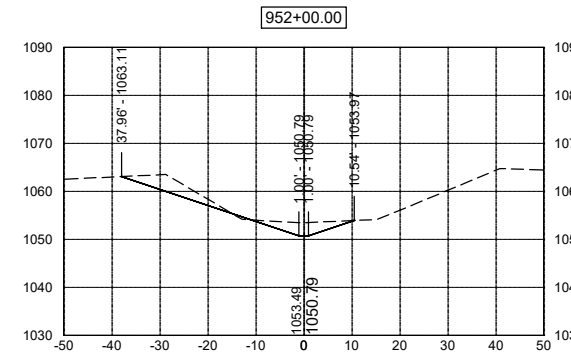
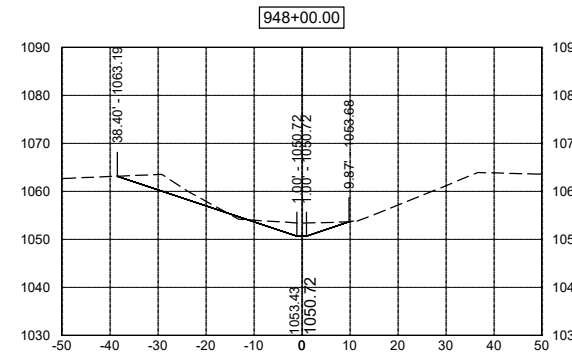
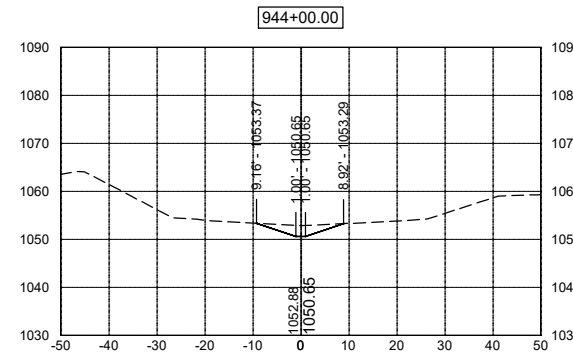
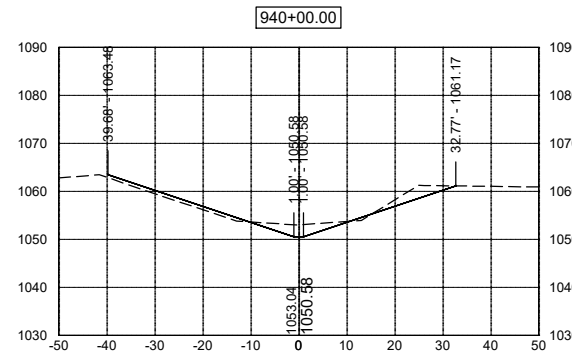
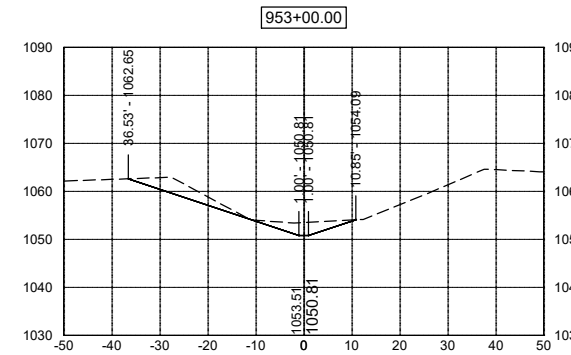
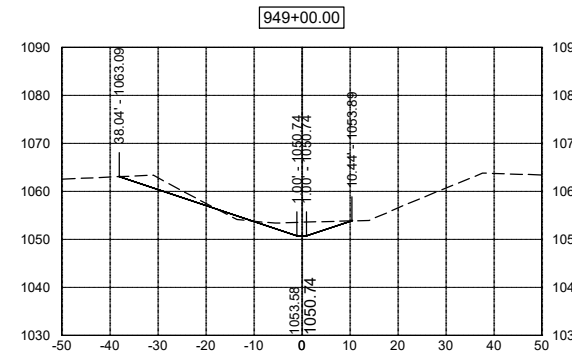
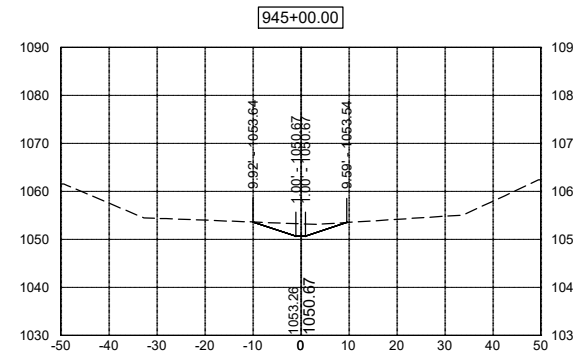
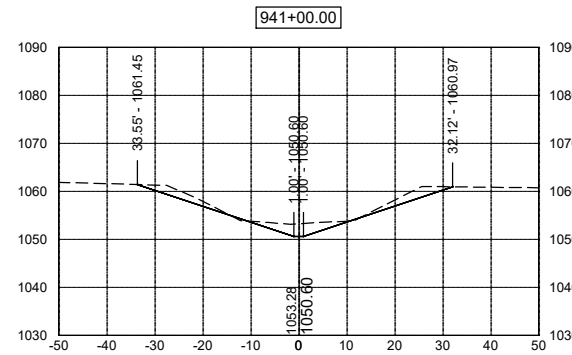
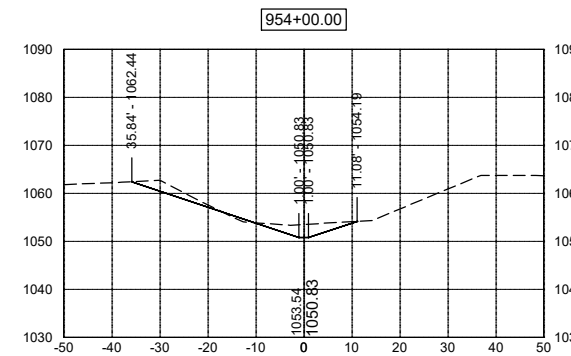
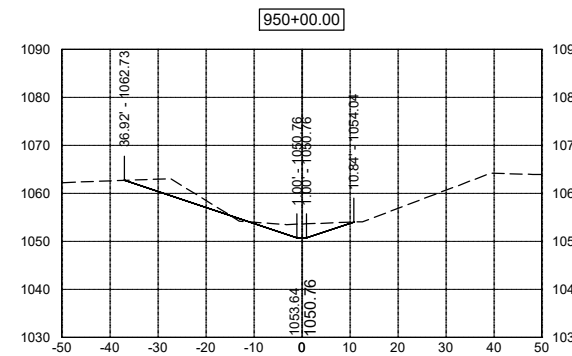
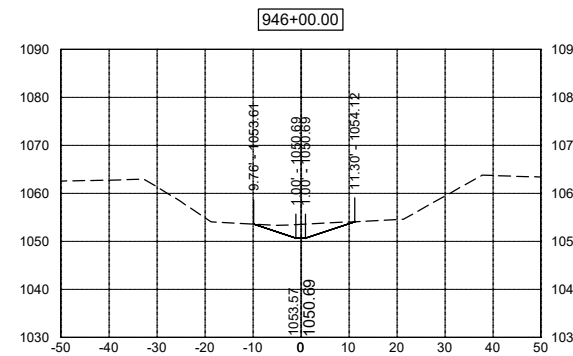
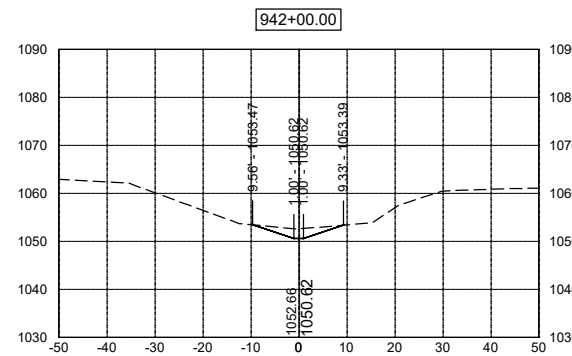
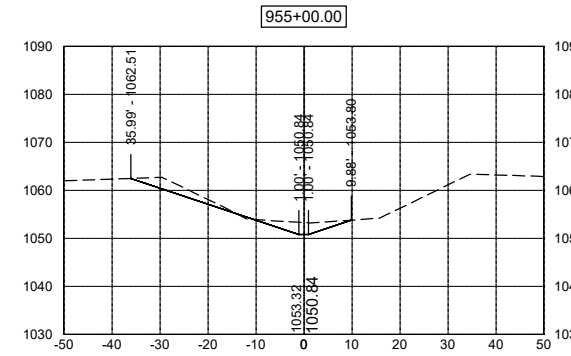
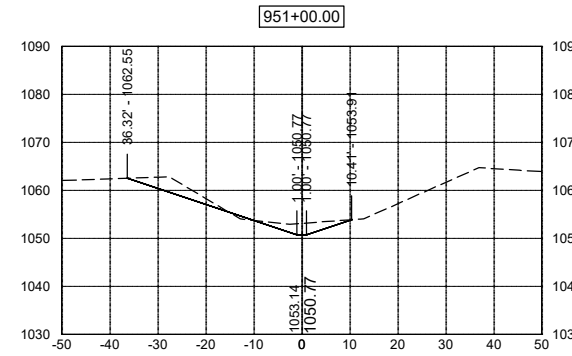
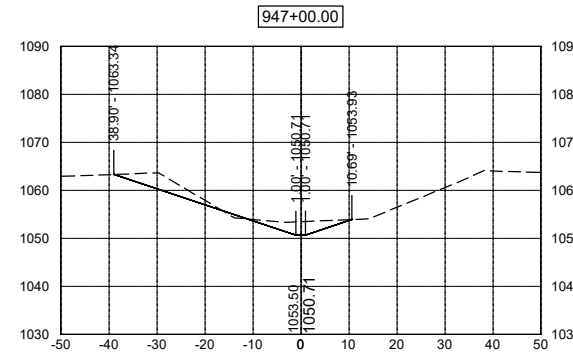
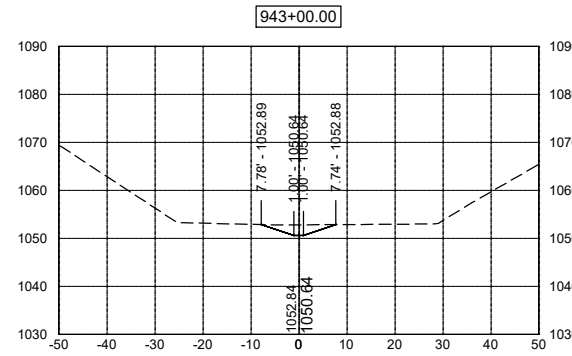
SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.01
PROJECT	63713



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION

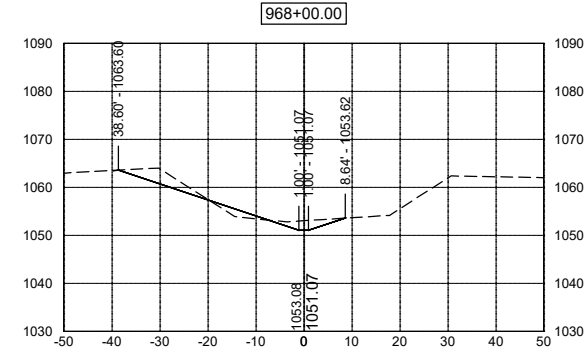
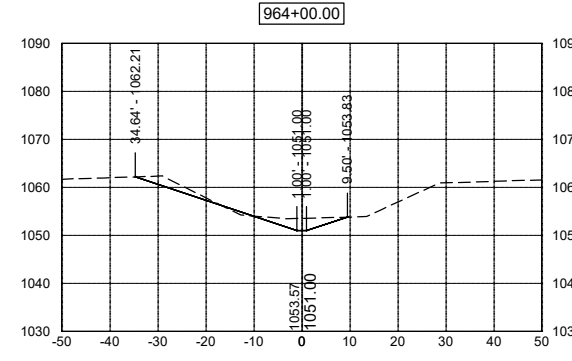
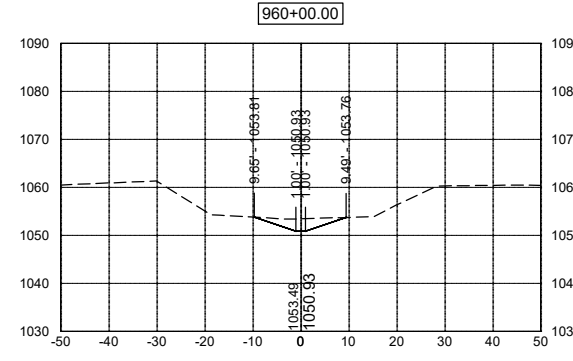
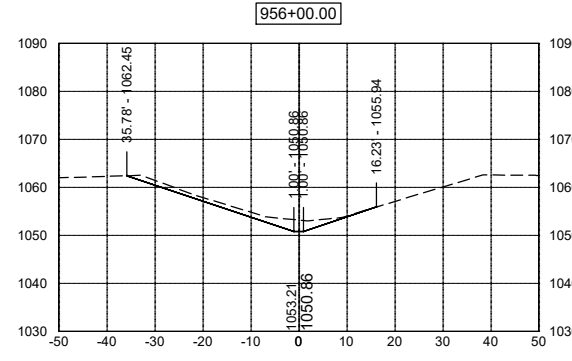
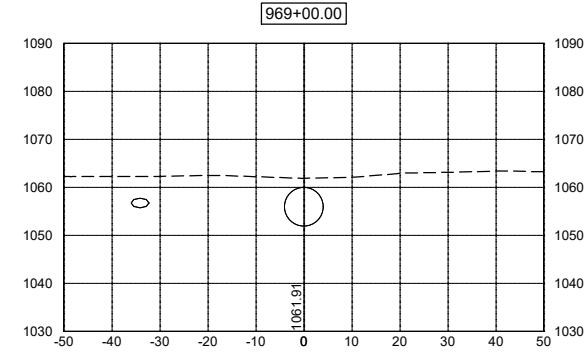
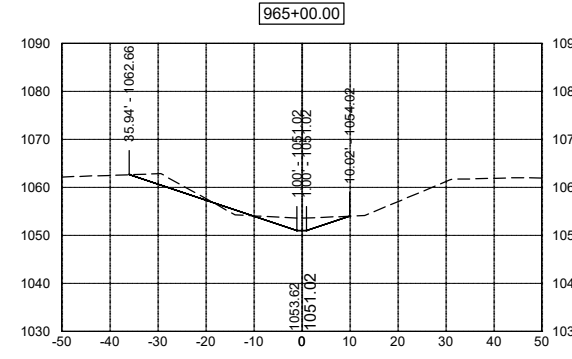
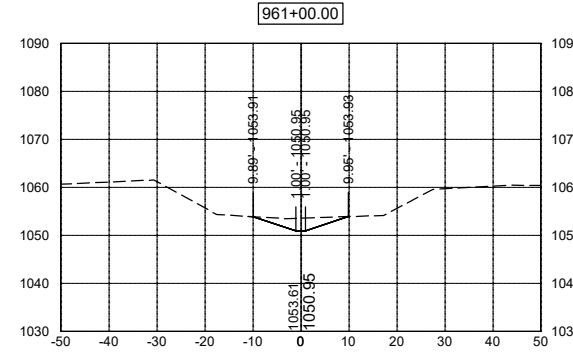
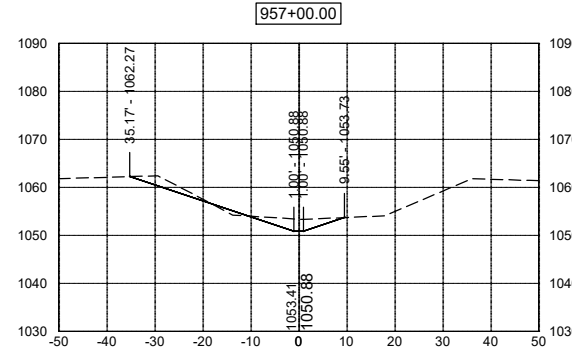
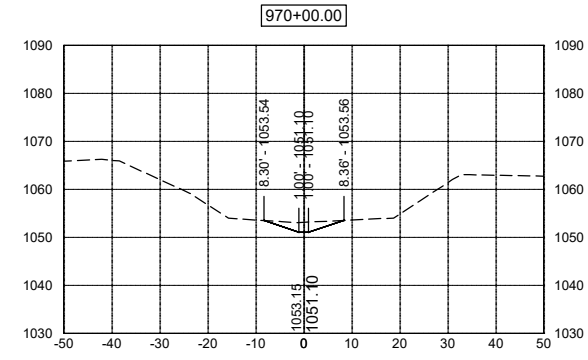
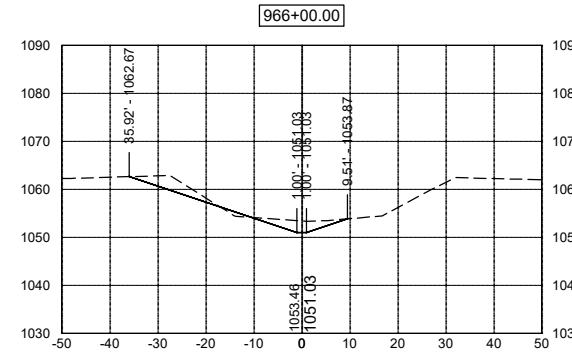
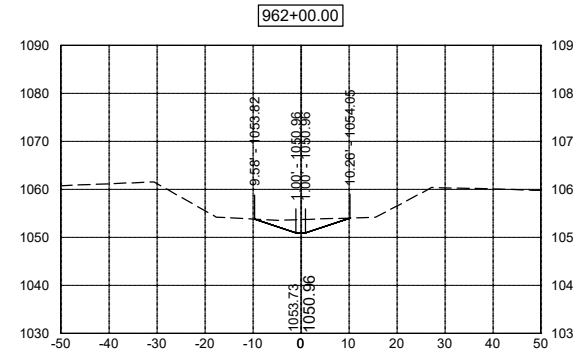
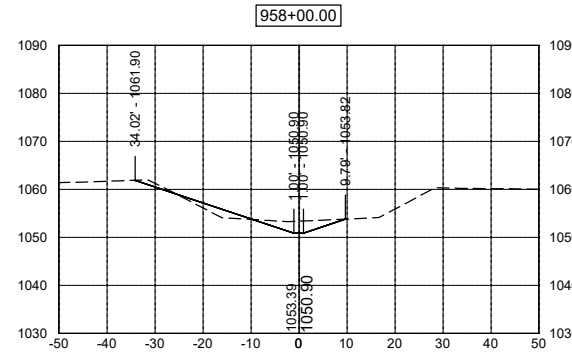
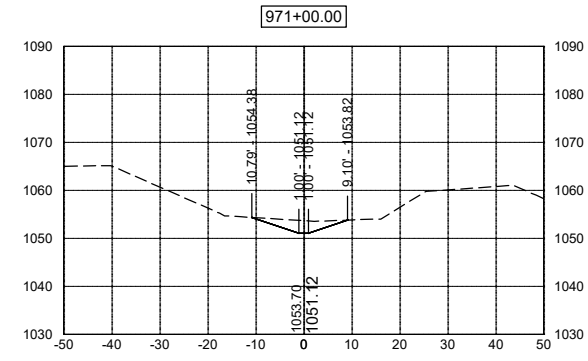
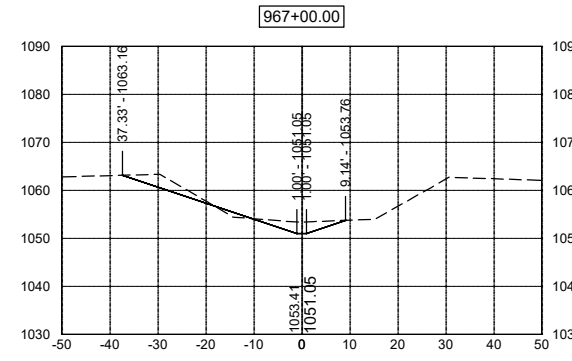
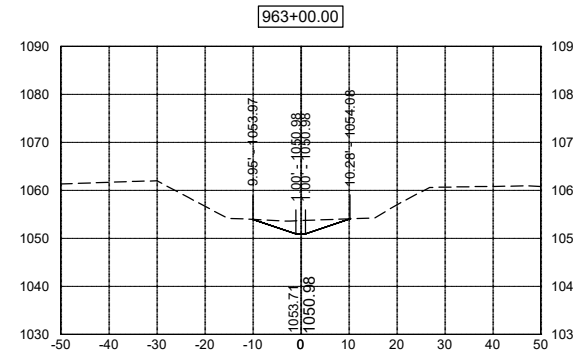
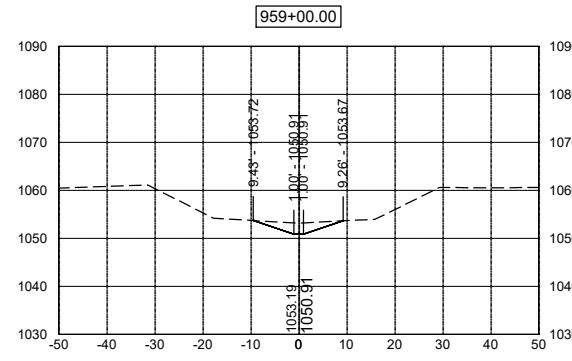


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.02
PROJECT	63713



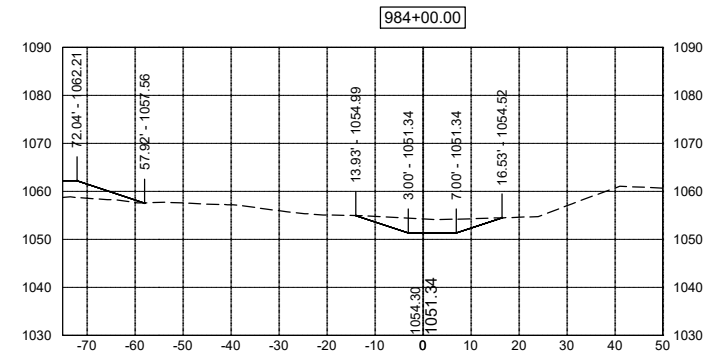
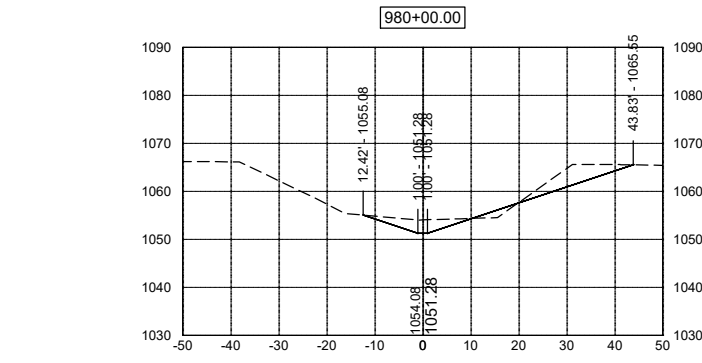
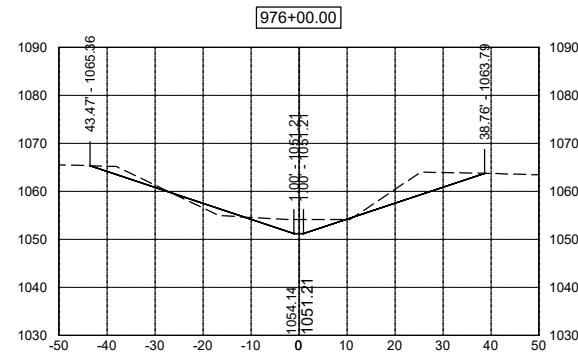
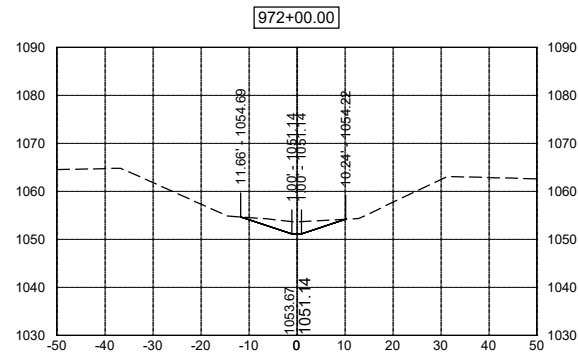
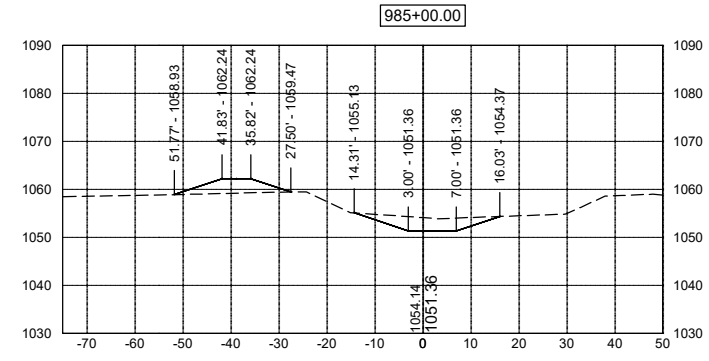
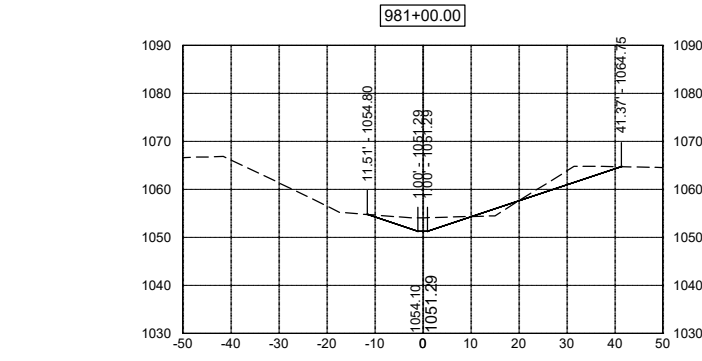
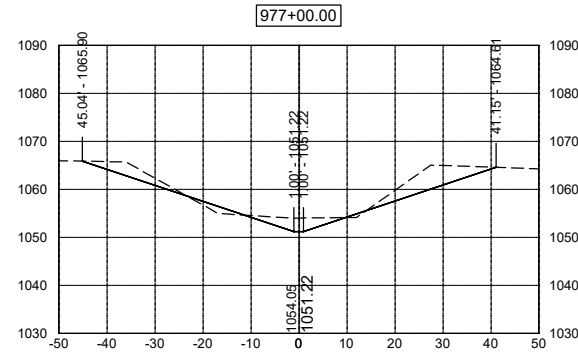
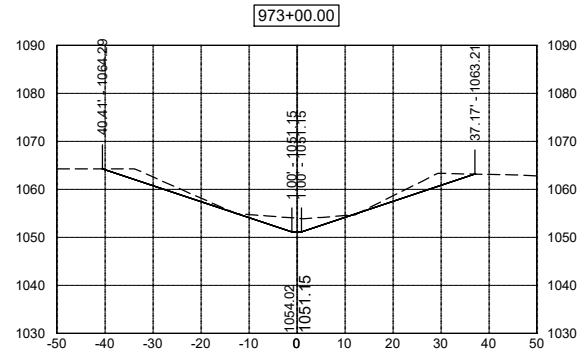
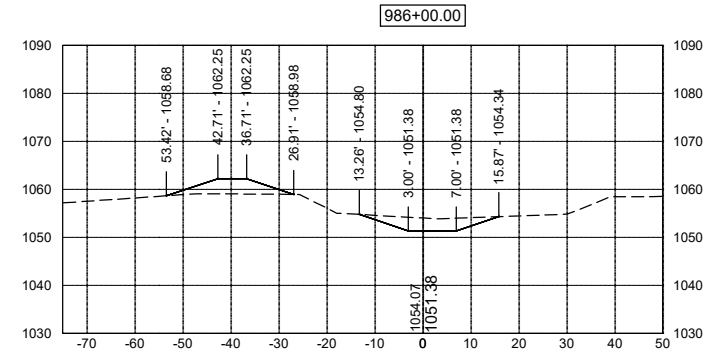
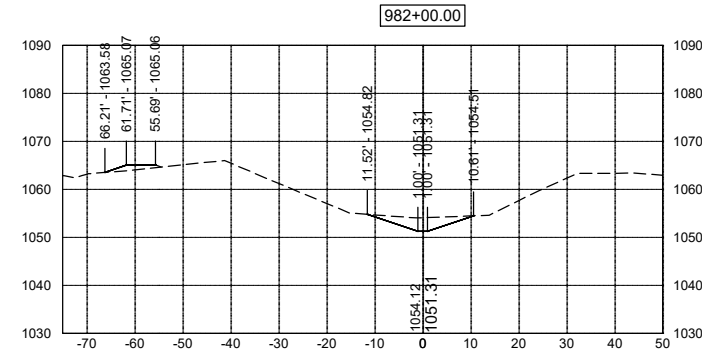
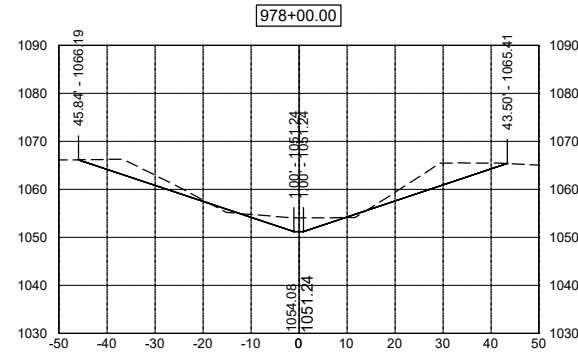
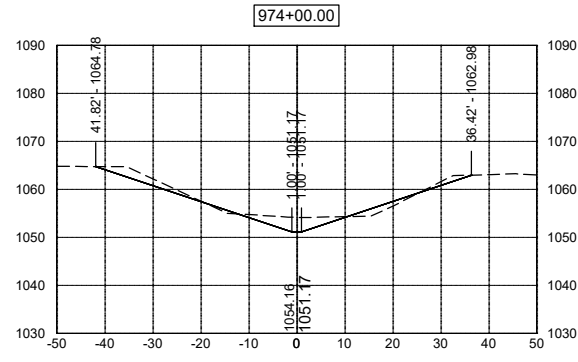
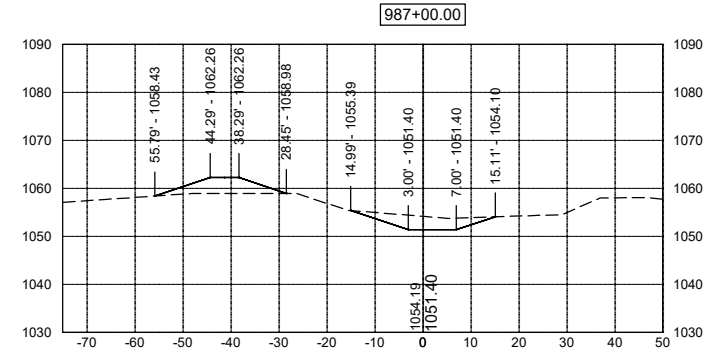
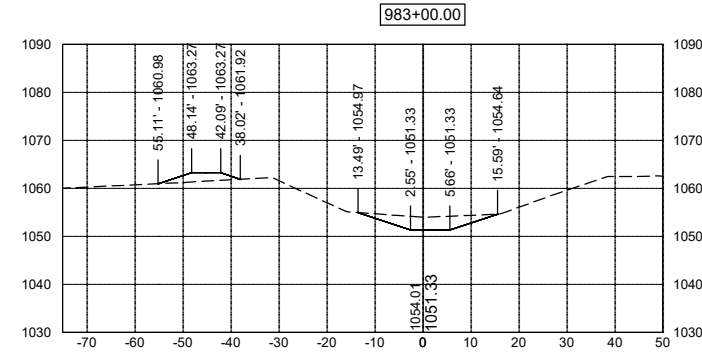
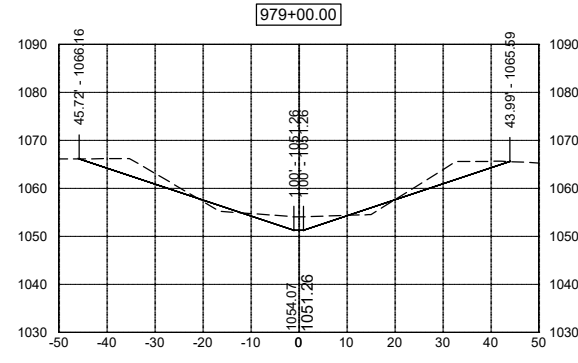
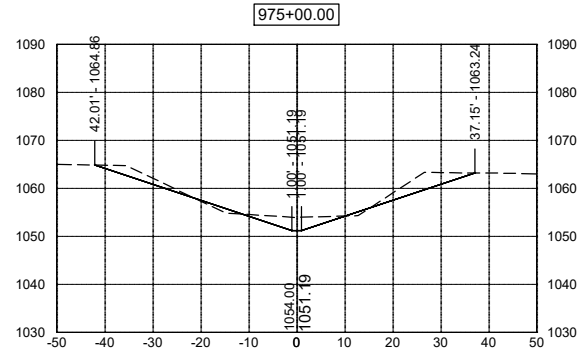
DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.03
PROJECT	63713



DATE	REVISIONS

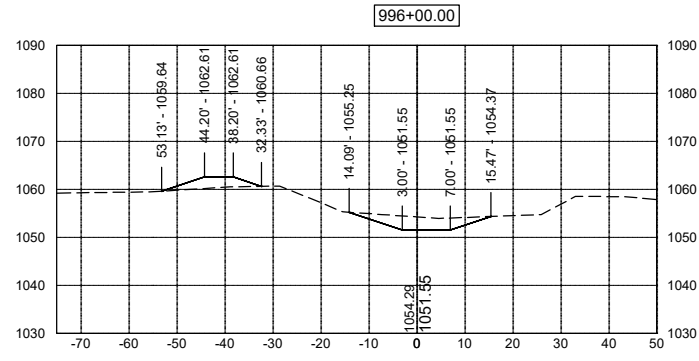
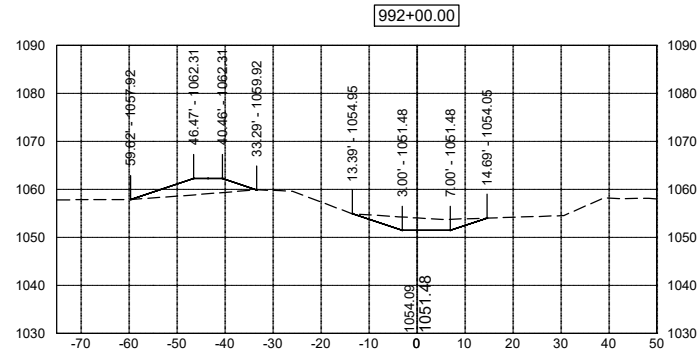
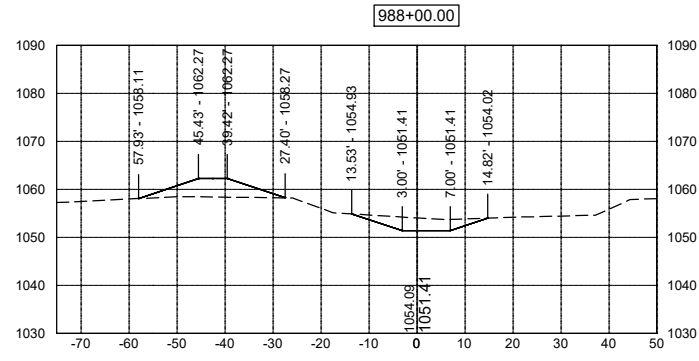
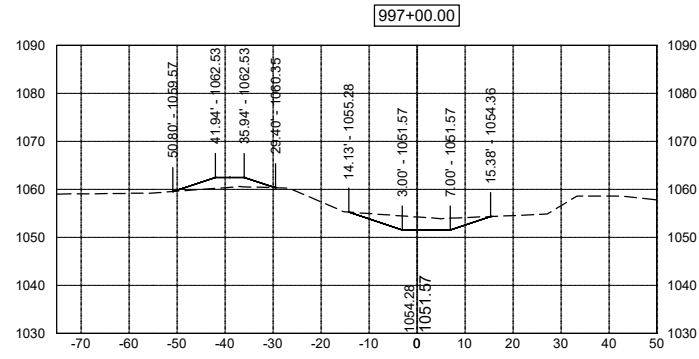
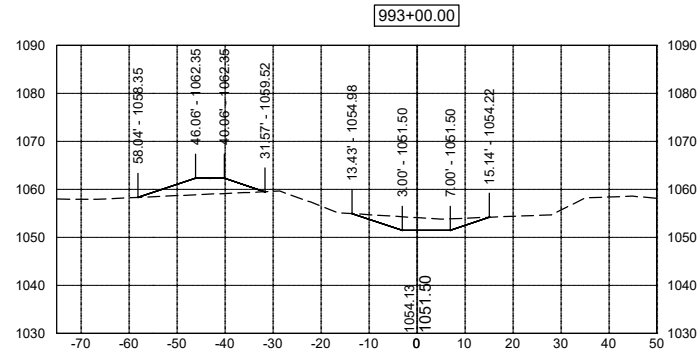
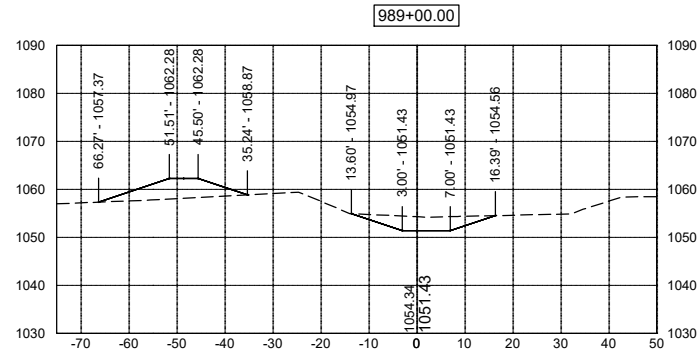
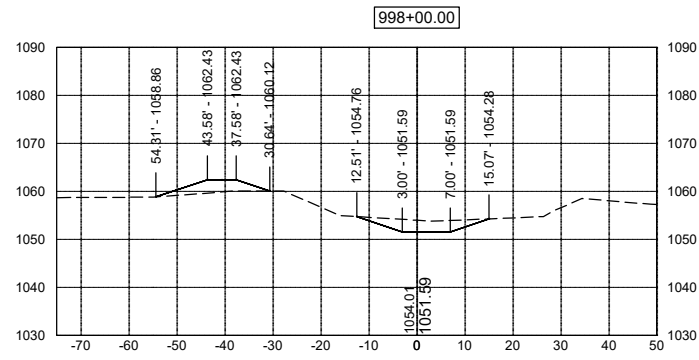
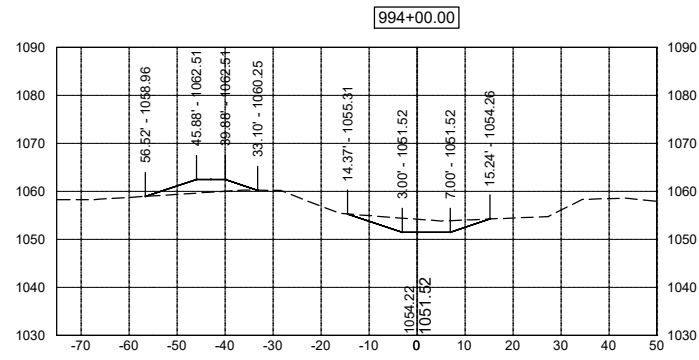
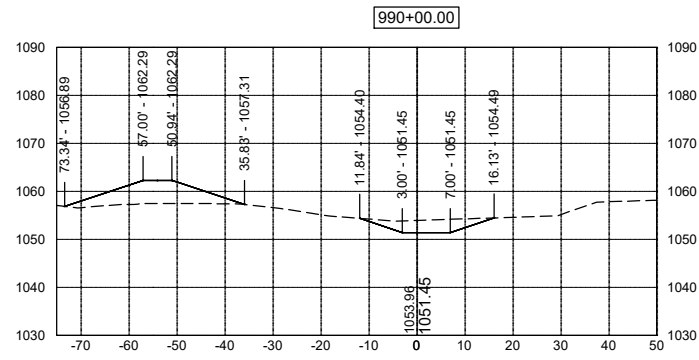
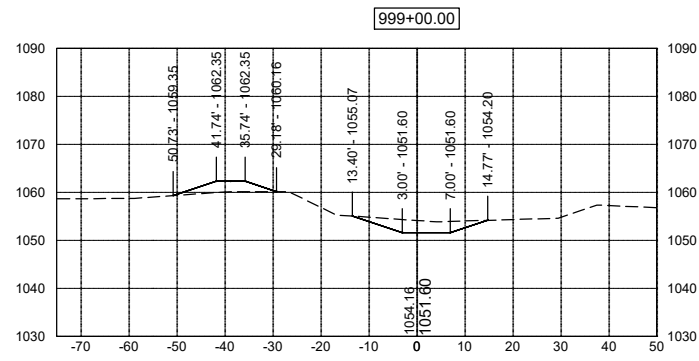
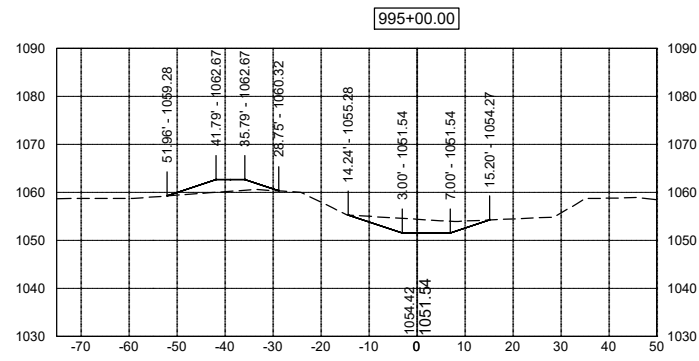
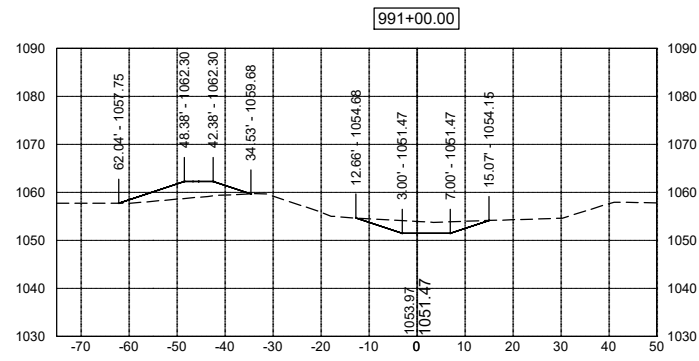
SCALE	AS NOTED
DRAWN	JWD
CHECKED	PEM
APPROVED	PEM
DATE	01-25-2024
ISSUED FOR	CONSTRUCTION



**MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63**  
**MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT**  
 203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

**CROSS SECTIONS**  
**W.04**

DWG. NO.	W.04
PROJECT	63713



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



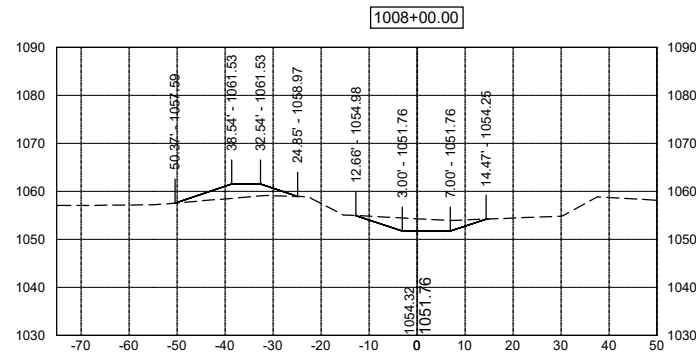
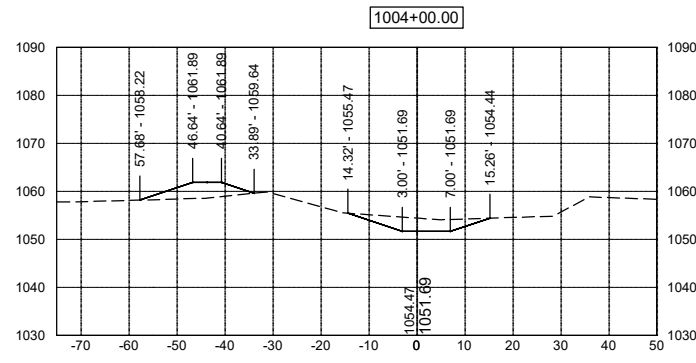
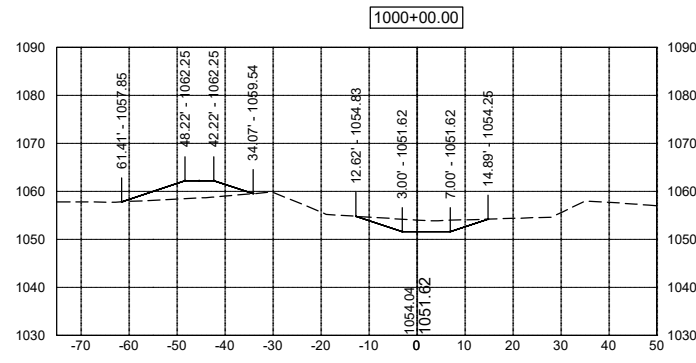
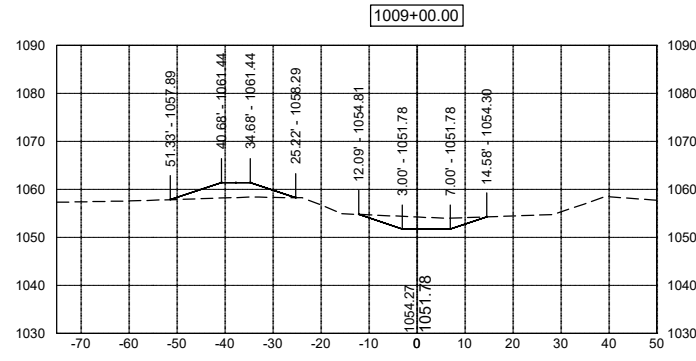
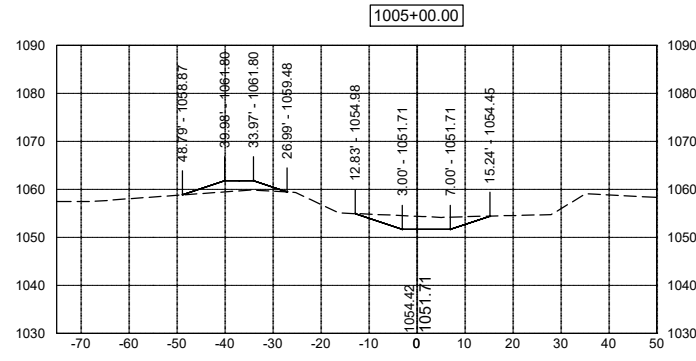
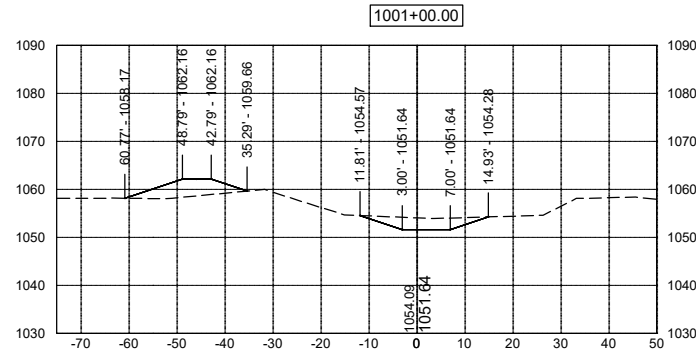
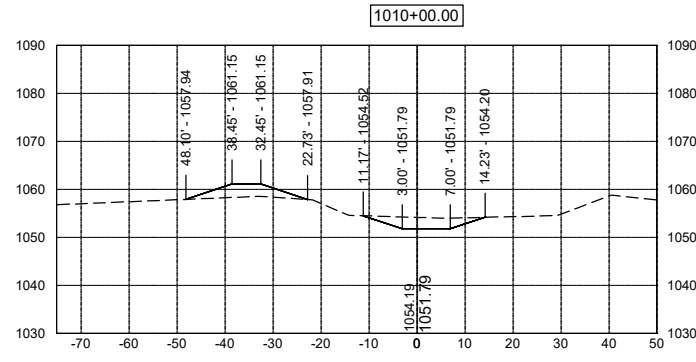
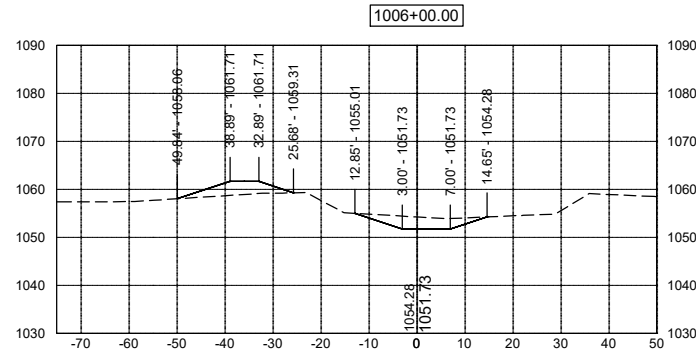
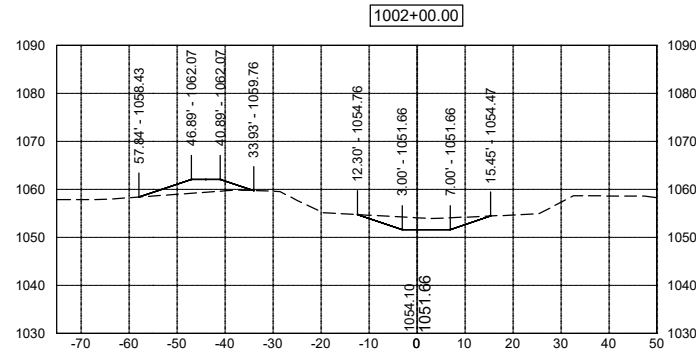
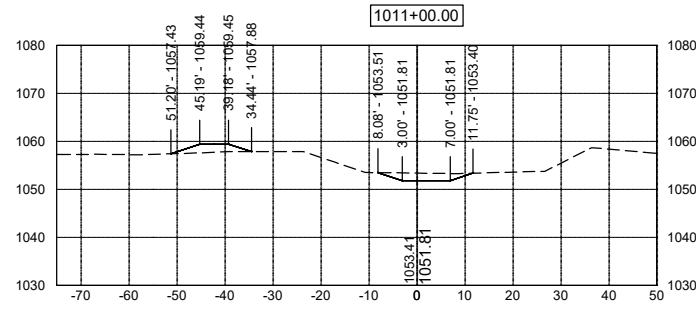
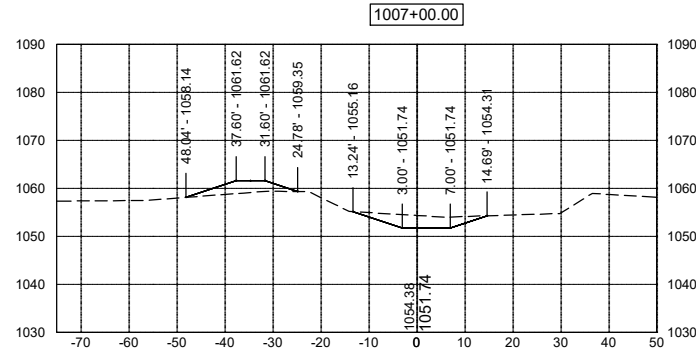
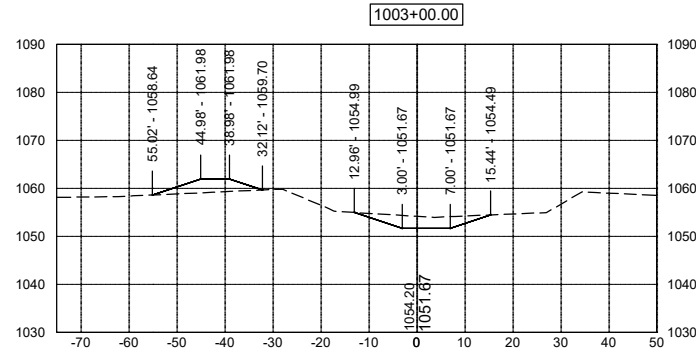
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

PROJECT 63713

DWG. NO.	W.05
----------	------



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

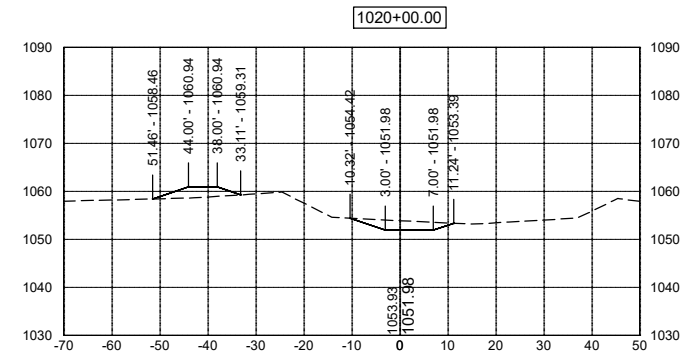
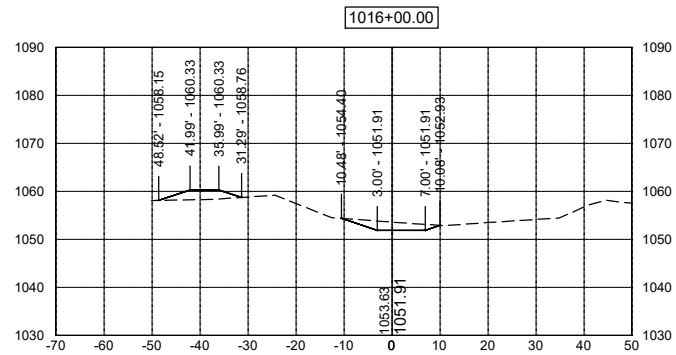
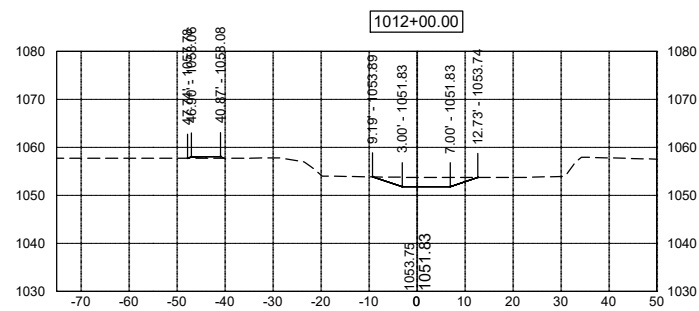
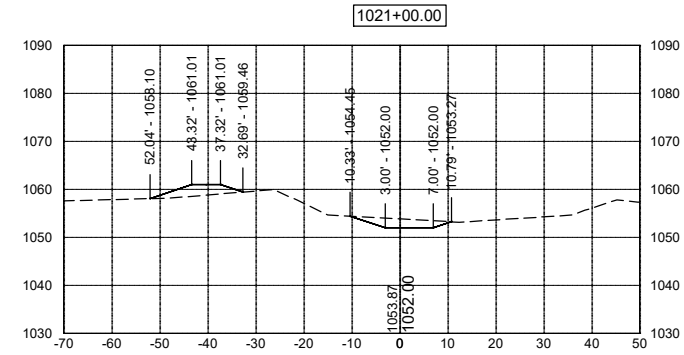
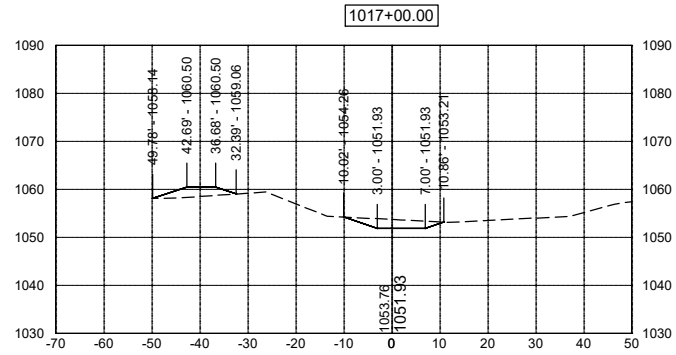
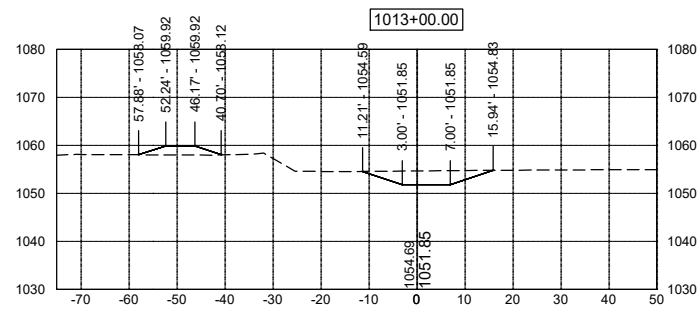
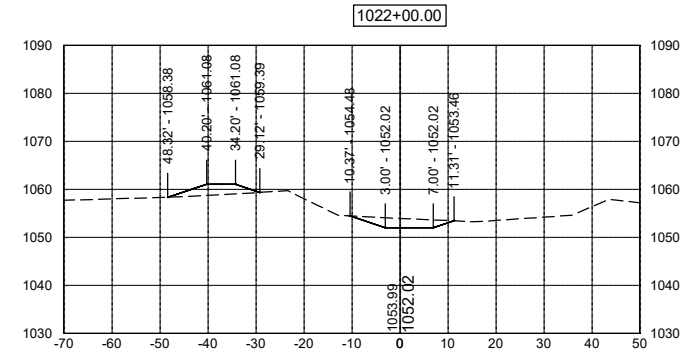
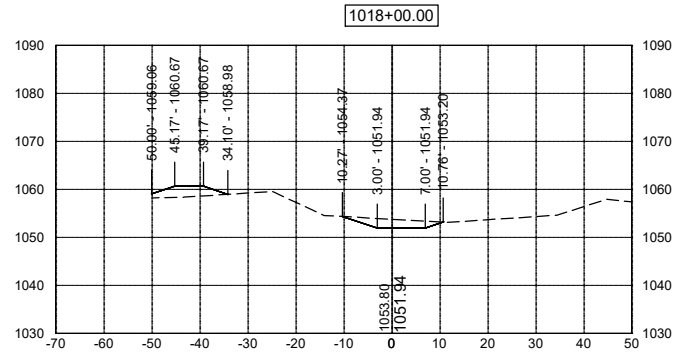
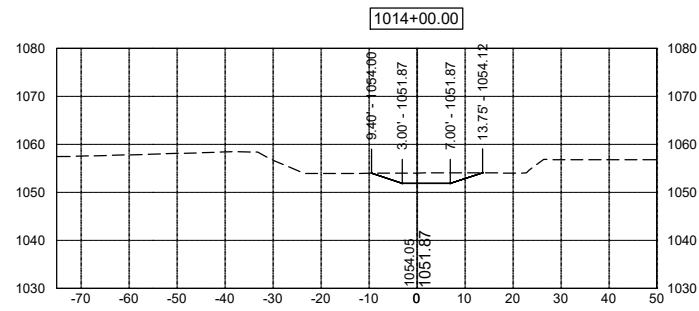
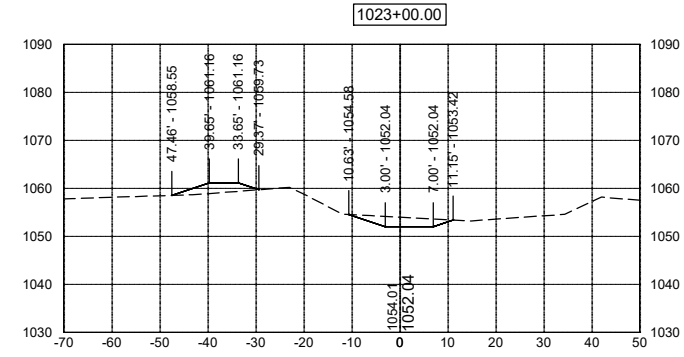
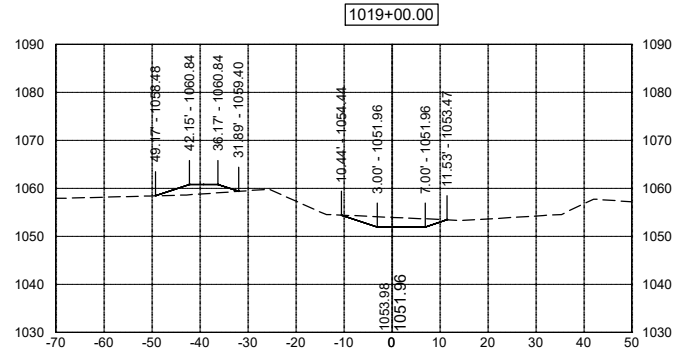
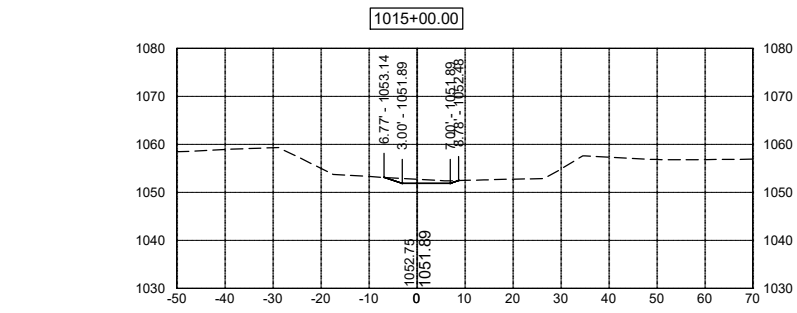


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.
W.06
PROJECT



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

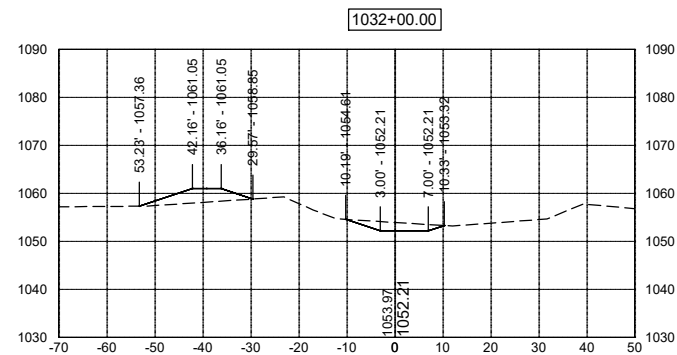
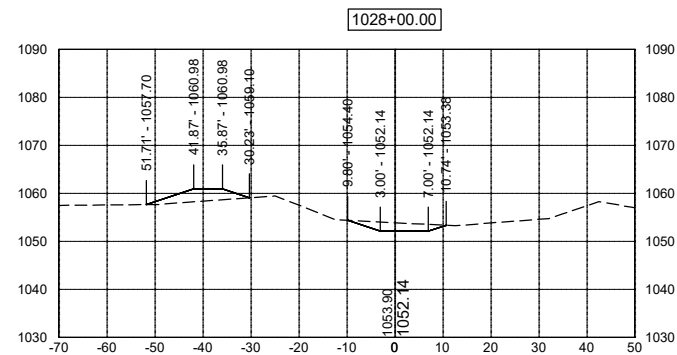
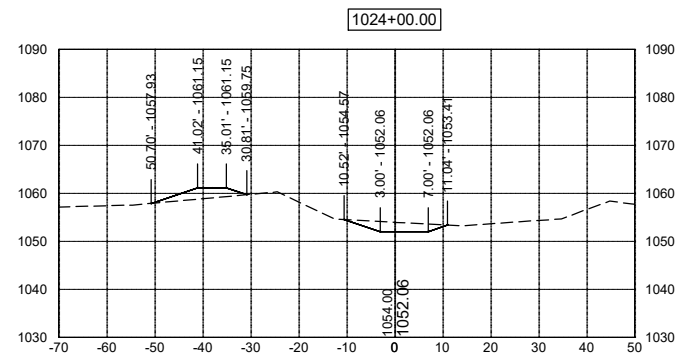
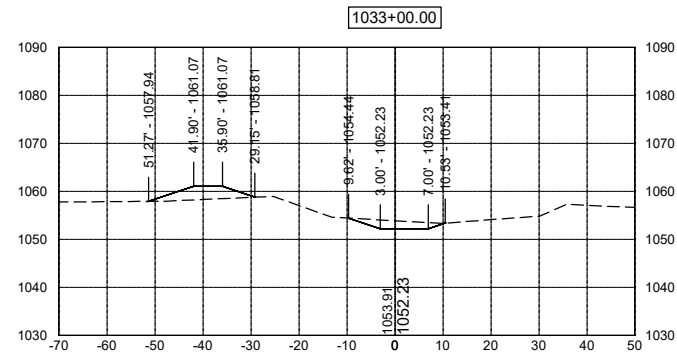
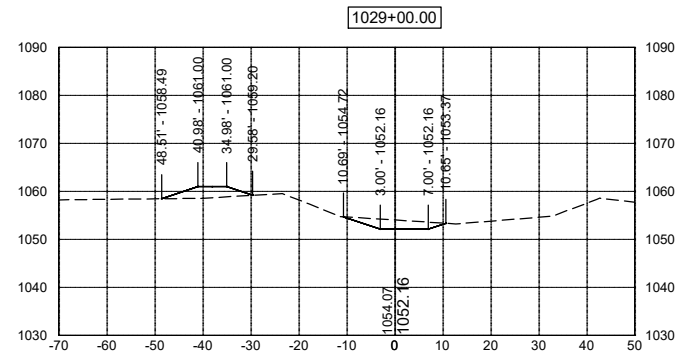
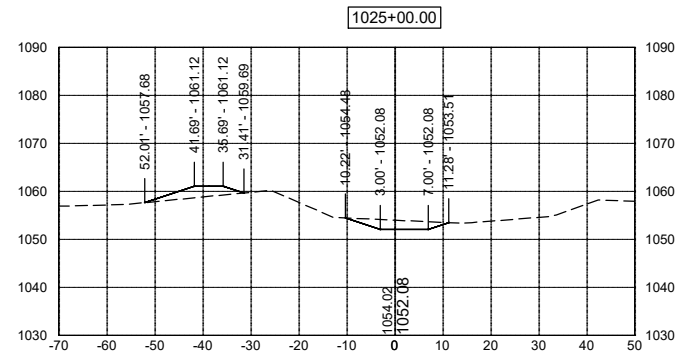
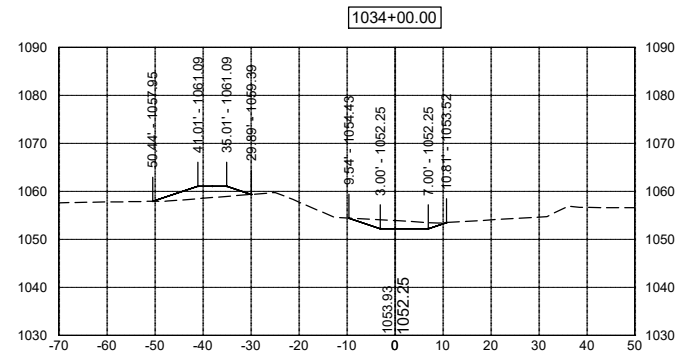
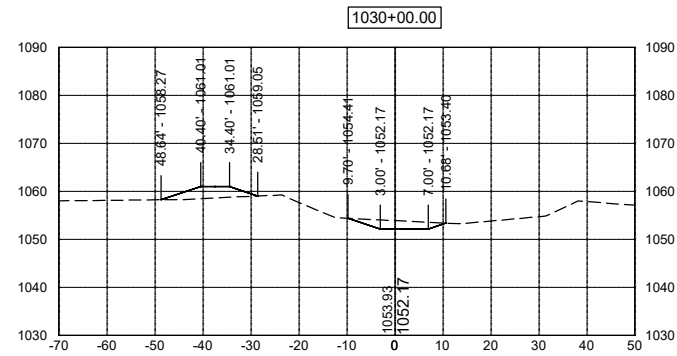
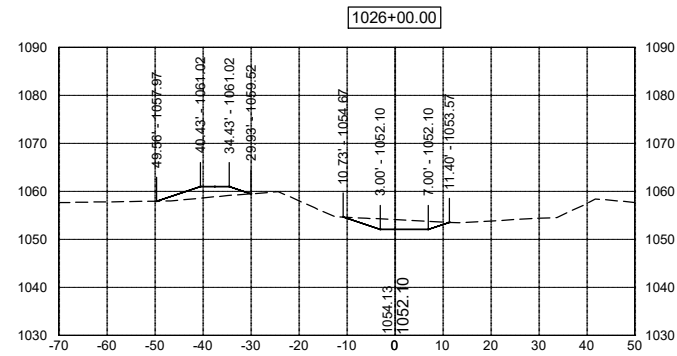
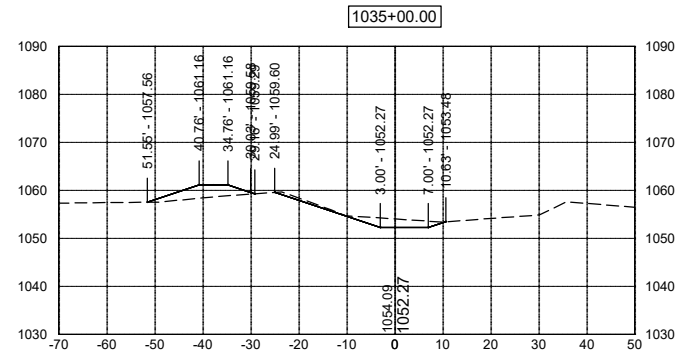
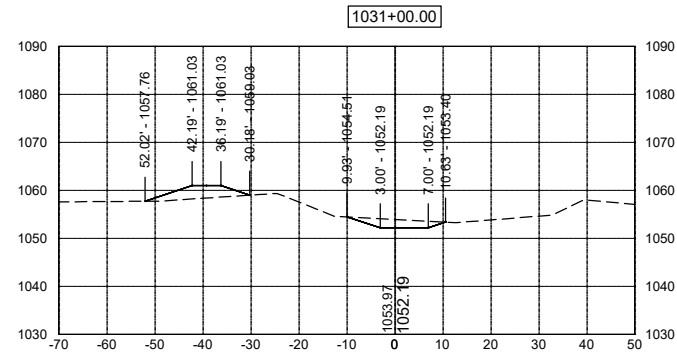
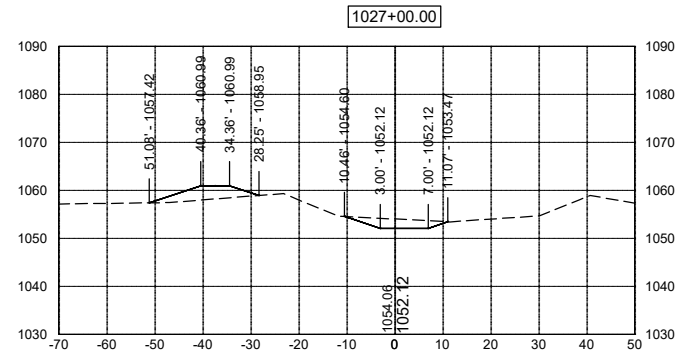


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.07
PROJECT	63713



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



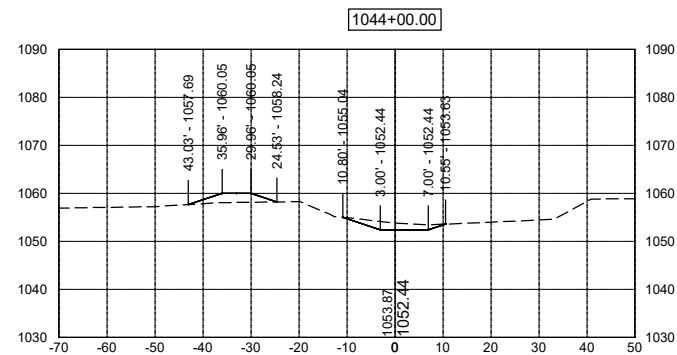
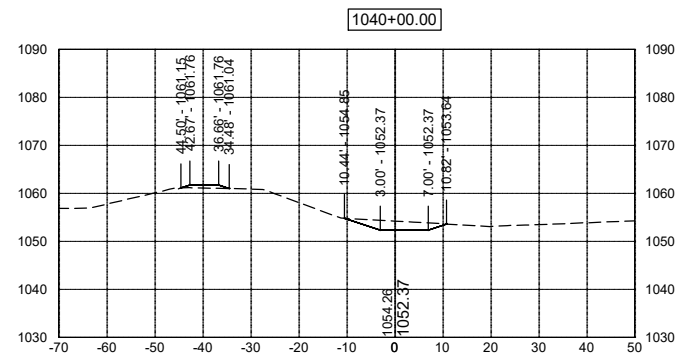
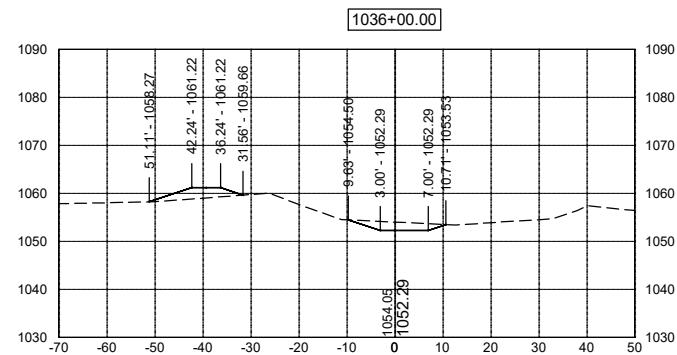
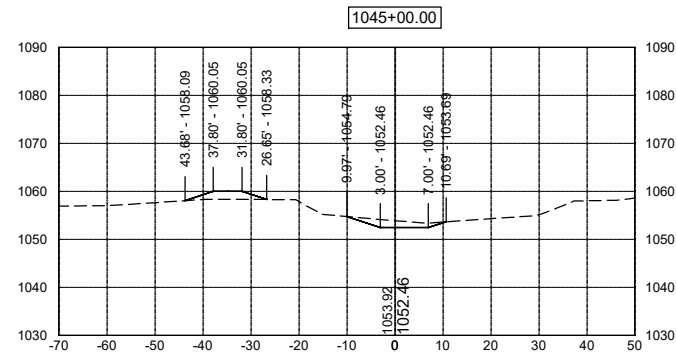
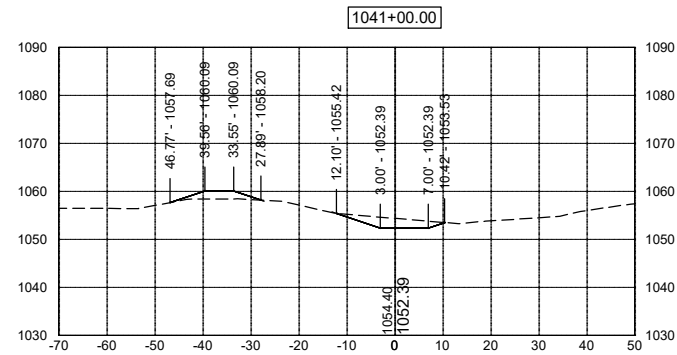
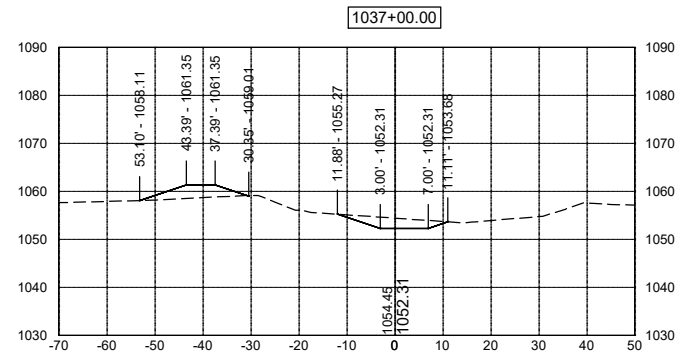
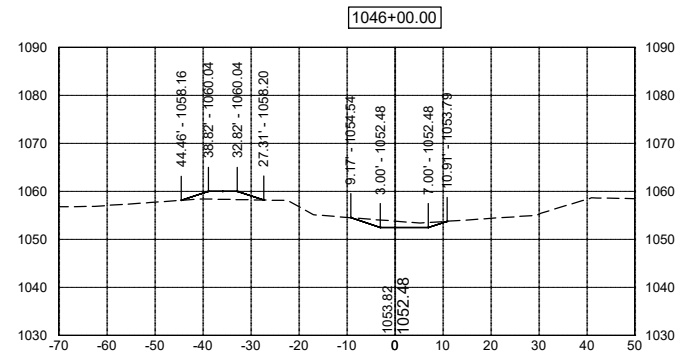
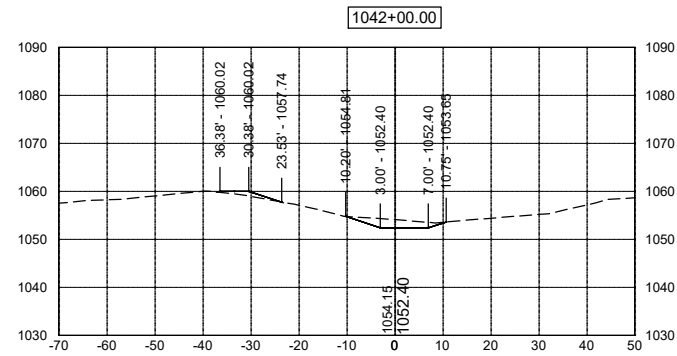
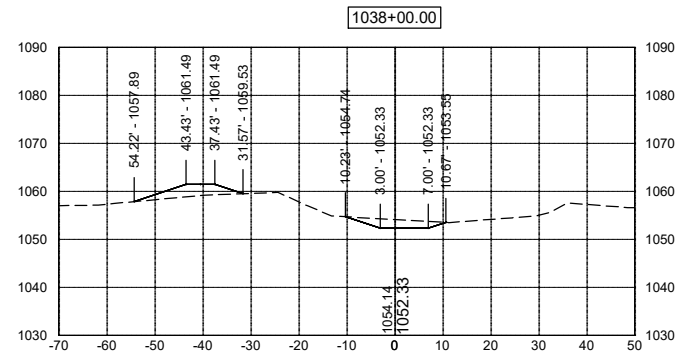
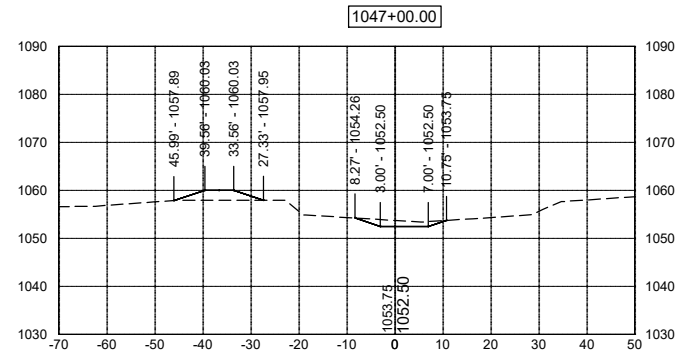
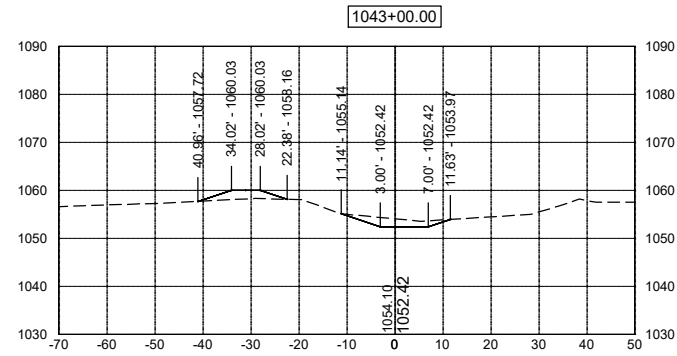
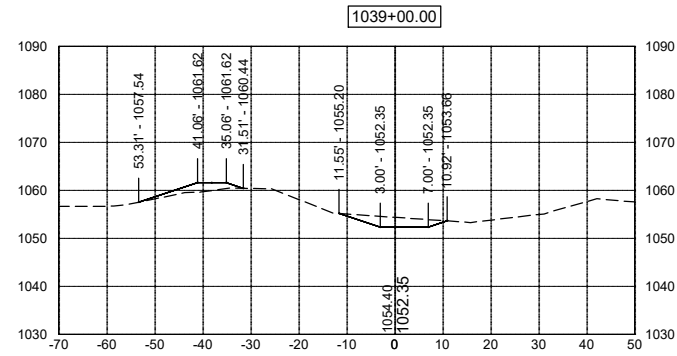
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.08
PROJECT	63713





DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

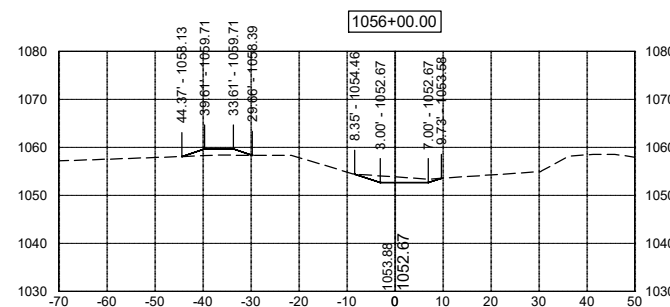
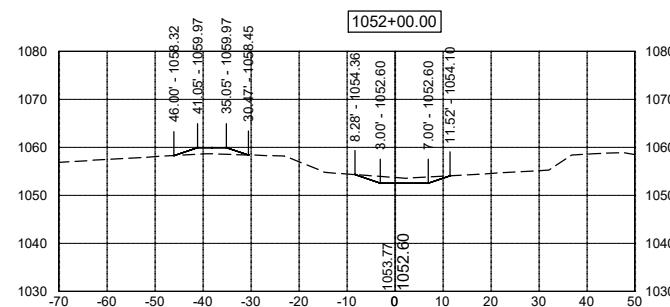
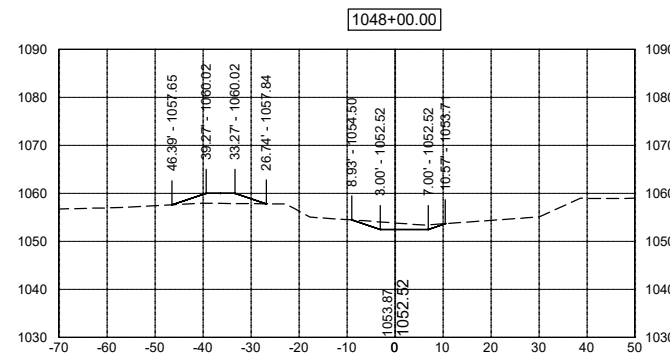
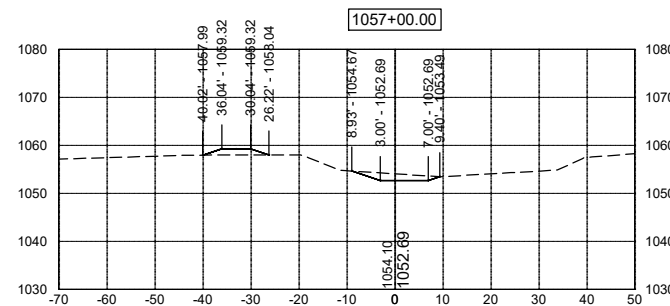
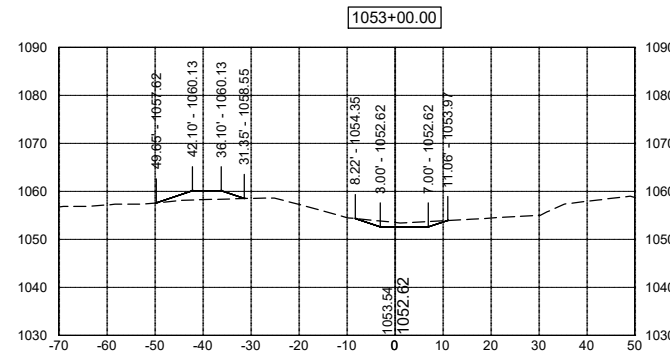
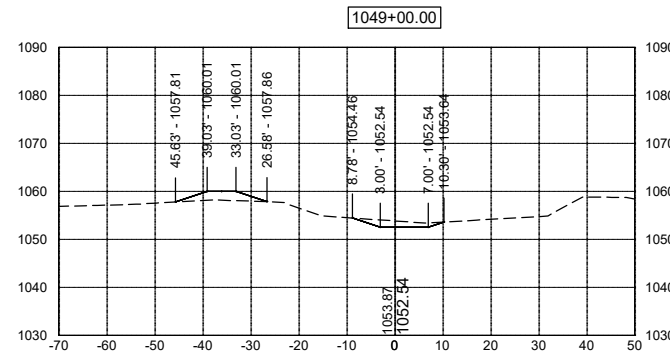
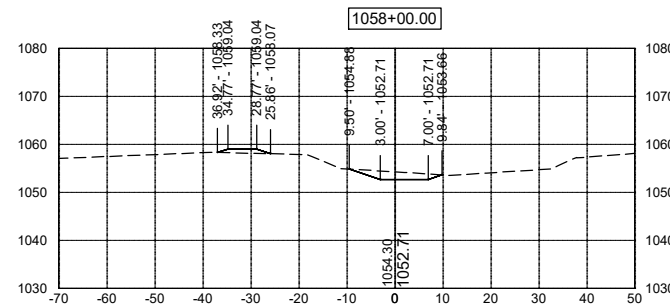
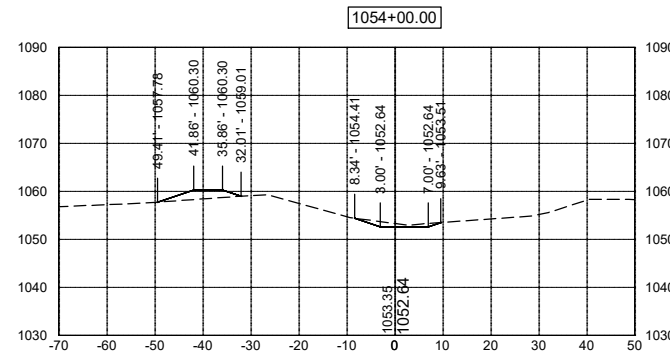
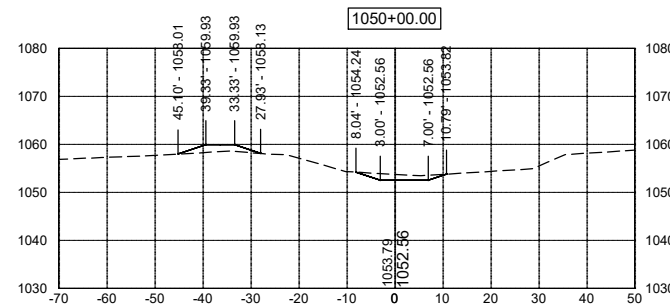
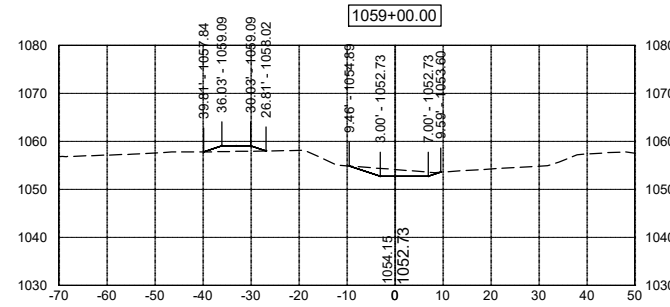
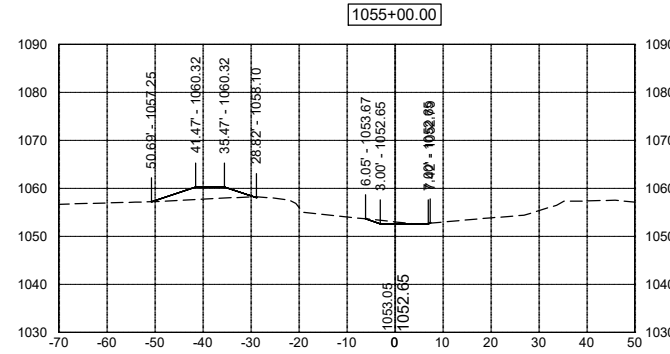
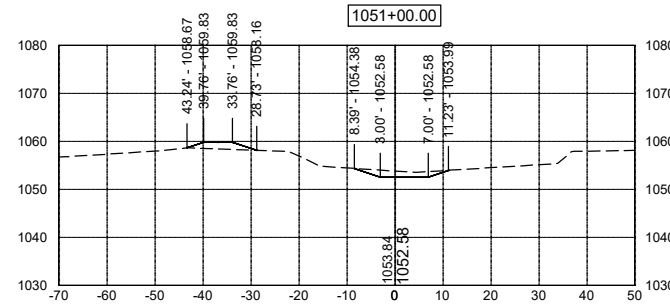


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.09
PROJECT	63713



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



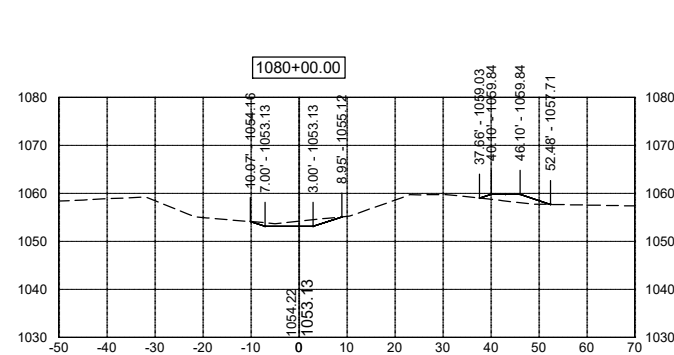
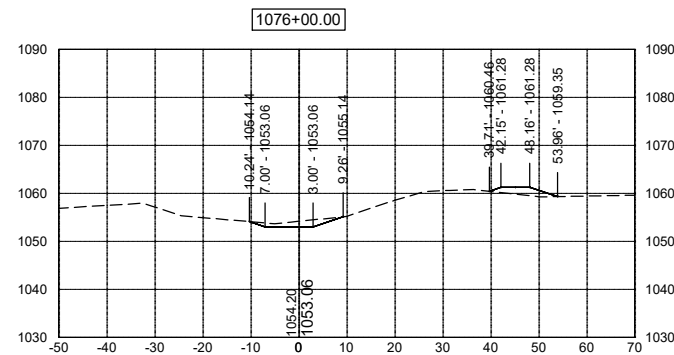
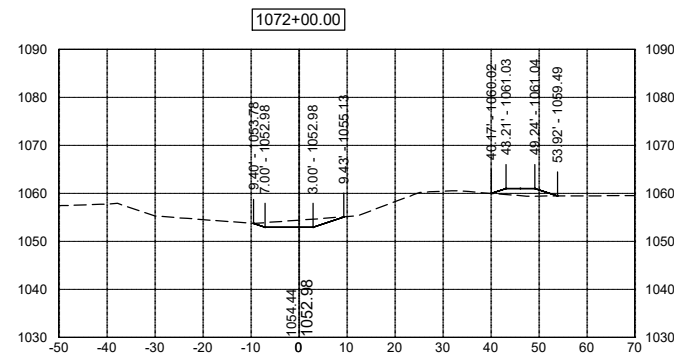
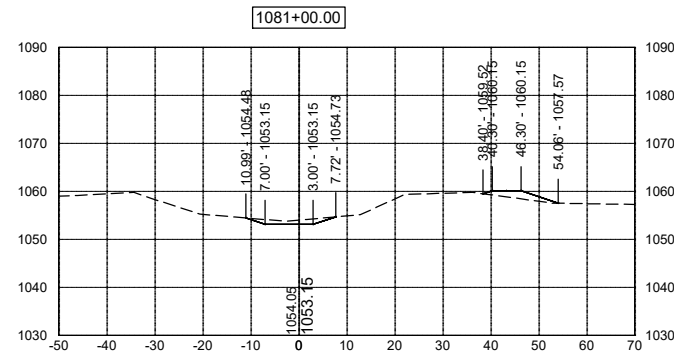
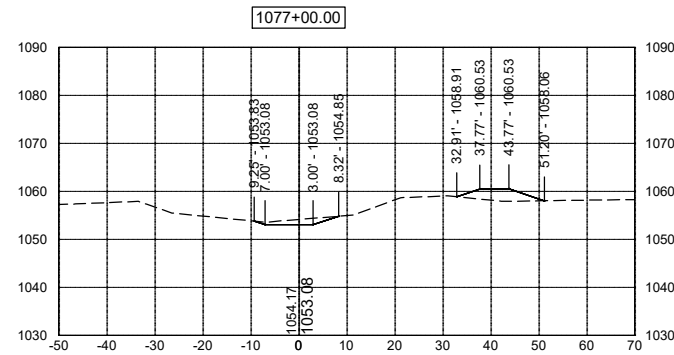
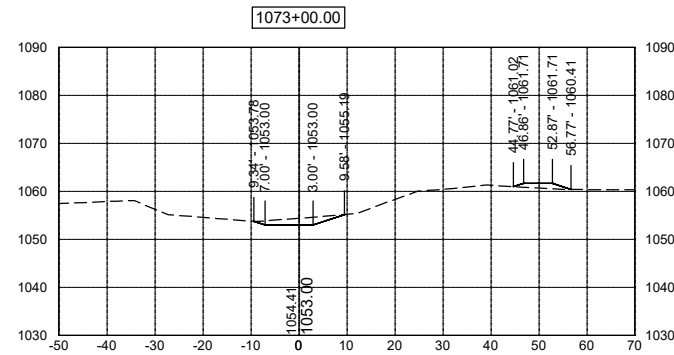
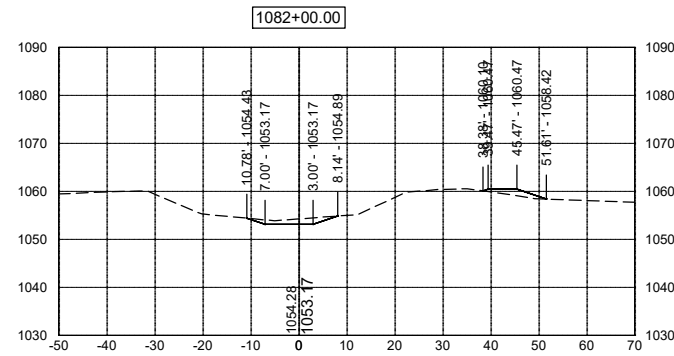
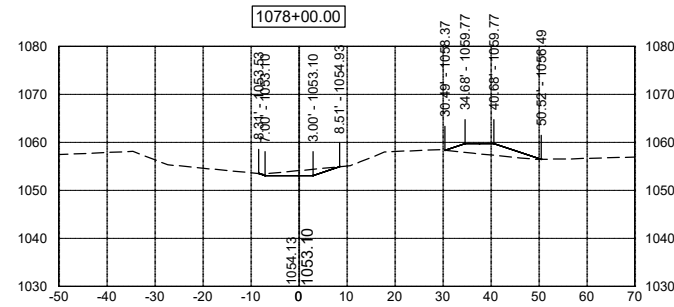
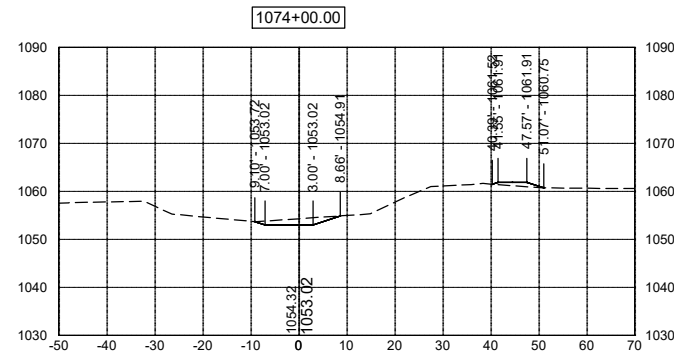
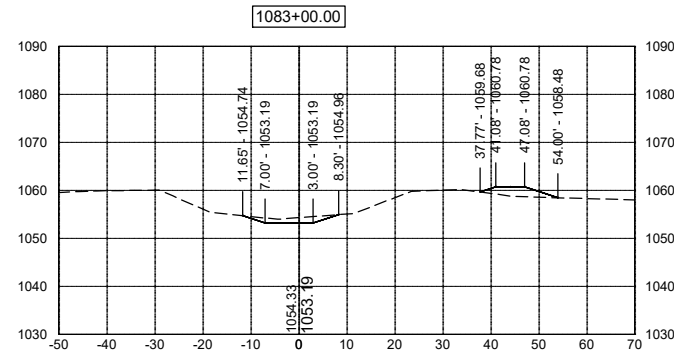
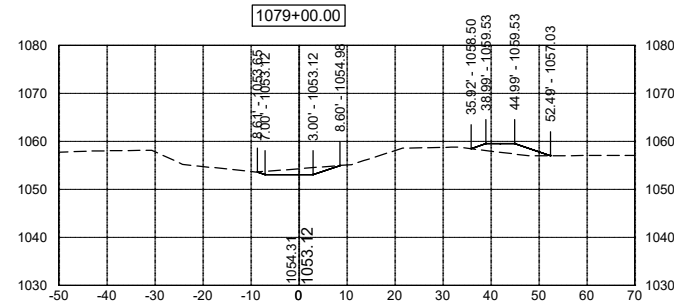
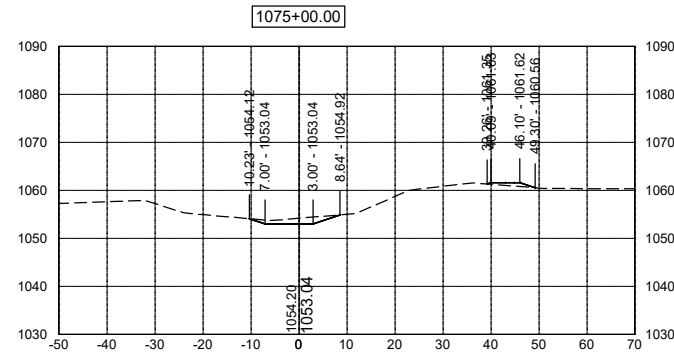
MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.	W.10
PROJECT	63713





DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION

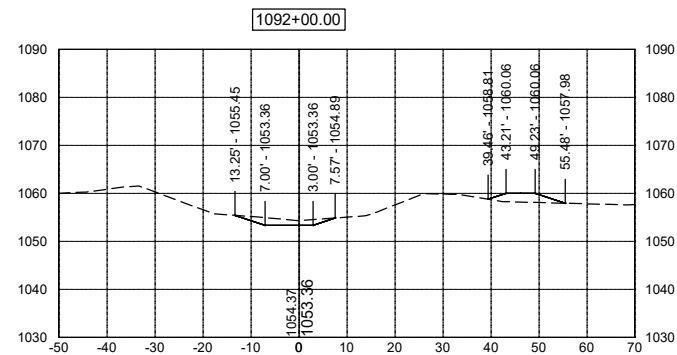
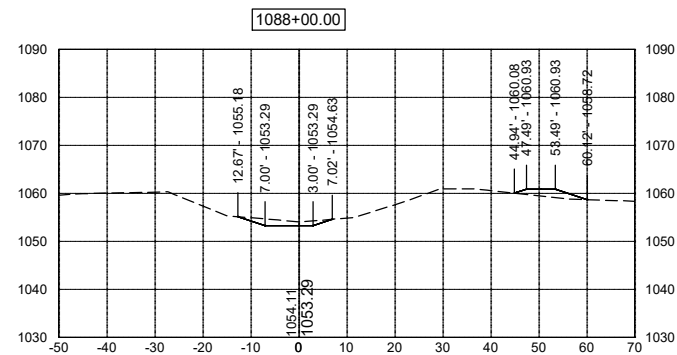
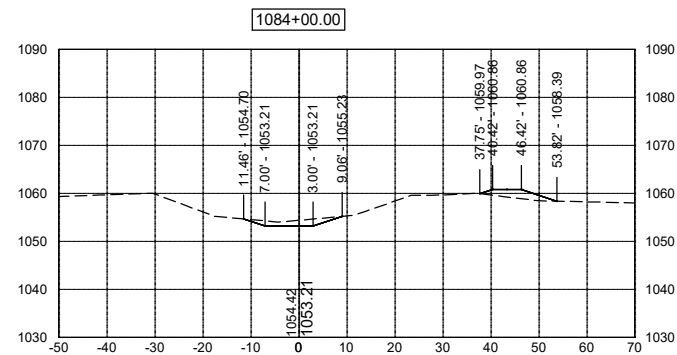
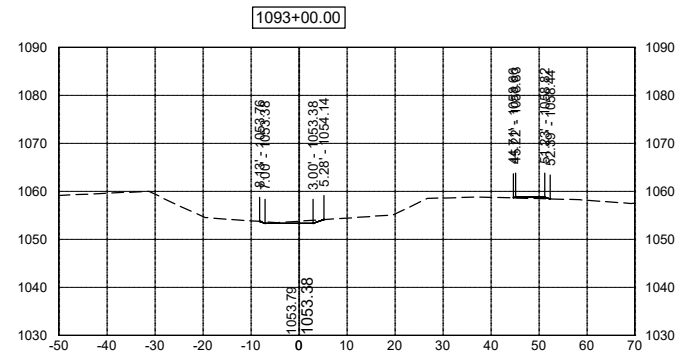
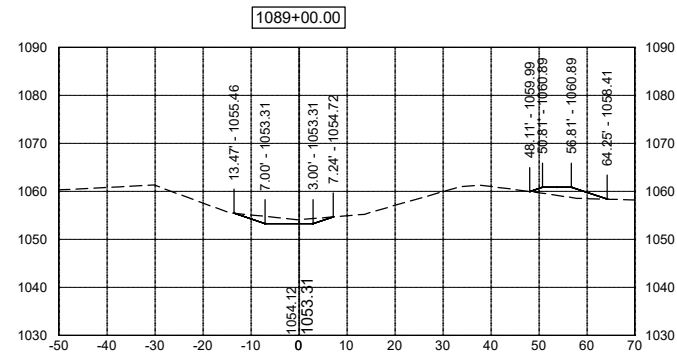
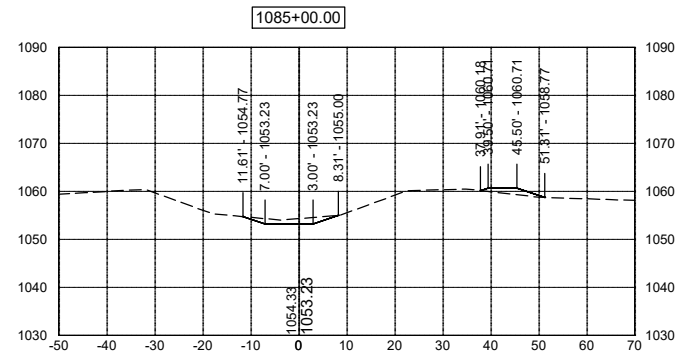
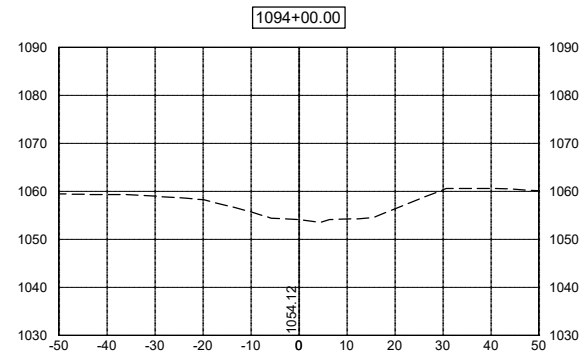
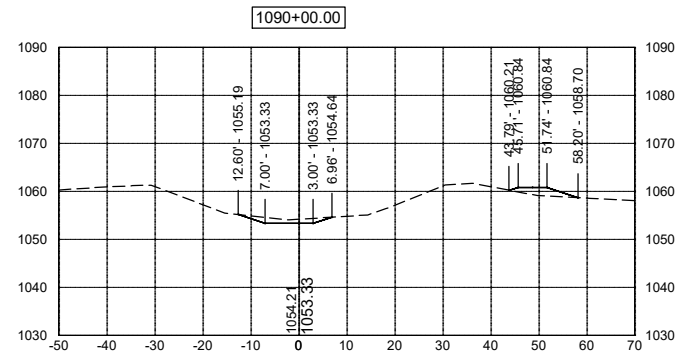
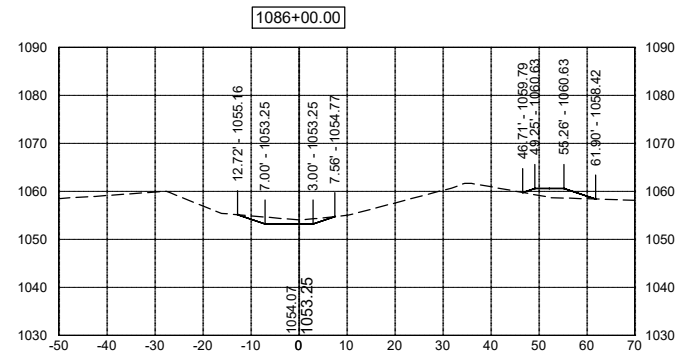
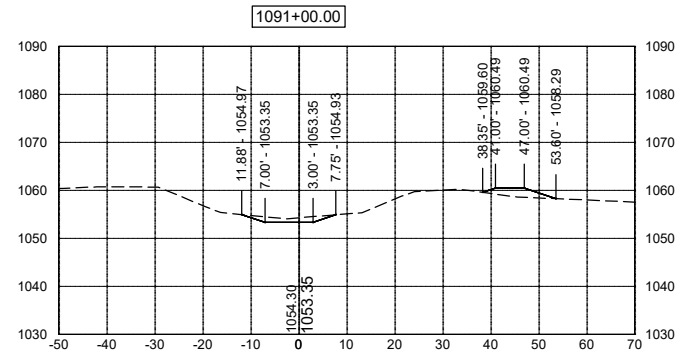
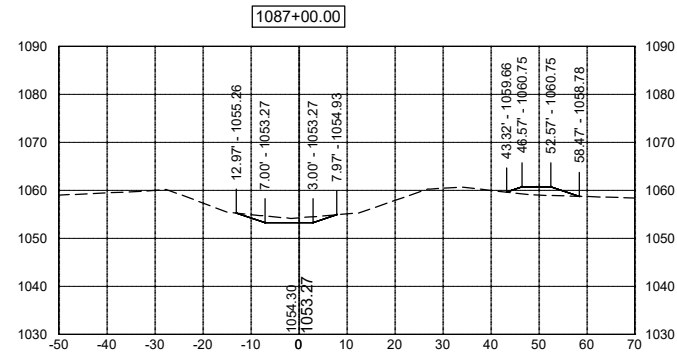


MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.
W.12
PROJECT



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	JWD
		CHECKED	PEM
		APPROVED	PEM
		DATE	01-25-2024
		ISSUED FOR	CONSTRUCTION



MAIN DITCH CLEANOUT - STA 919+25 TO 1093+63  
 MCCANDLESS INTERCOUNTY DRAINAGE DISTRICT

203 Sergeant Square Dr. - Suite B • Sergeant Bluff, Iowa 51054-0220  
 712-943-5055 • 712-943-5088(FAX) • 877-241-8009(WATS)

CROSS SECTIONS

DWG. NO.
W.13
PROJECT 63713