19TH STREET TRAIL PROJECT

CITY OF NEVADA

NEVADA, IOWA

2024

CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
BRANDON L. MICKELSON
2442528
IOWA

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.

4/12/2024

BRANDON LEE MICKELSON, P.E. DATE

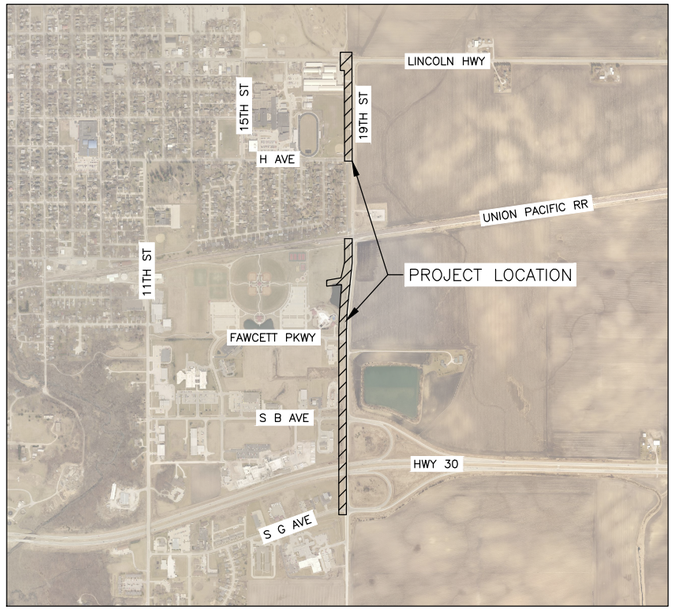
License Number: 2442528

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal:

- ALL SHEETS

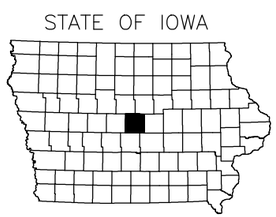
LOCATION MAP



THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) LATEST REVISIONS – 2024 EDITION, APPLICABLE SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO CONSTRUCTION ON THIS PROJECT.

SHEET INDEX

STATE OF IOWA



STORY COUNTY

HRGreen

8710 EARHART LANE SW | CEDAR RAPIDS, IOWA 52404

Phone: 319.841.4000 | Toll Free: 800.728.7805 | Fax: 713.965.0044 | HRGreen.com

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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

TITLE SHEET
COVER SHEET

SHEET NO.
A.01

Xrefs: xgt-1--dh01; XV-0--AERIAL; Aerial

SHEET DESIGNATIONS

A.01
- MAJOR INFORMATION
- DISCIPLINE

DISCIPLINE

A	TITLE SHEETS
B	TYPICAL CROSS SECTIONS AND DETAILS
C	QUANTITIES AND GENERAL INFORMATION
D	MAINLINE PLAN AND PROFILE SHEETS
E	SIDE ROAD PLAN AND PROFILE SHEETS; OPEN CHANNEL PROFILE SHEETS
F	EROSION AND SEDIMENT CONTROL (SWPPP)
G	SURVEY SHEETS
H	RIGHT-OF-WAY SHEETS
J	TRAFFIC CONTROL AND STAGING SHEETS
K	LANDSCAPE SHEETS
L	GEOMETRIC, STAKING, AND JOINTING SHEETS
M	BURIED PIPE SHEETS
N	TRAFFIC SIGNAL SHEETS
P	PERMANENT PAVING MARKINGS/SIGNING SHEETS
Q	REMOVAL SHEETS
S	SIDEWALK SHEETS
T	EARTHWORK QUANTITY/SOIL SHEETS
U	DESIGN DETAIL SHEETS, MODIFIED STANDARDS, AND DETAIL SHEETS
W	MAINLINE CROSS-SECTIONS
X	SIDE ROAD CROSS-SECTIONS

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WINDSTREAM COMMUNICATIONS
(515)401-2668
HALEY.SANDBERG@WINDSTREAM.COM

MATERIAL LEGEND

- EARTH, BACKFILL
- SAND, GRAVEL, CONCRETE (PLAN)
- GRAVEL FILL, GRAVEL PAVING
- RIP RAP
- CAST IN PLACE CONCRETE, PRECAST CONCRETE, PCC PAVING
- ACC PAVING
- SEEDED AREA

SYMBOL LEGEND

NORTH — TRUE NORTH ARROW: ORIENTATION IS SURVEYED TO TRUE NORTH OR AS CLOSE TO TRUE NORTH AS KNOWN DATA.

PLAN NORTH — PLAN NORTH ARROW: ORIENTATION IS CLOSEST TO TRUE NORTH AND INCREASES COMMUNICATION WHEN ADDRESSING SIDES OF A STRUCTURE.

0 20 — CIVIL SCALE BAR

1 BLDG DETAIL OR SECTION

SCALE: TO SCALE

1 DETAIL (NOT TO SCALE)

SCALE: NONE

TYPICAL NOTE:

1. NOTES ASSOCIATED WITH SHEET, PLAN, ELEVATION, SECTION OR DETAIL.

- 1 / S100 — DETAIL INDICATOR
- 1 / A100 — SECTION INDICATOR
- E / A201 — ELEVATION INDICATOR
- P101 / P102 — MATCH LINE INDICATOR
- CONTRACT TERMINATOR
- 1 — REVISION MARKER
- VENDOR / CONTRACTOR

CIVIL LEGEND

BENCHMARK, CONTROL POINT, ELEVATION INDICATOR	EXISTING MAJOR CONTOUR (1050)
CONCRETE MONUMENT	EXISTING MINOR CONTOUR (1049)
IRON PIN FOUND	EXISTING PERMANENT EASEMENT (ESMT-PERM)
IRON PIN SET	EXISTING TEMPORARY EASEMENT (ESMT-TMP)
OPEN PIPE	EXISTING FENCE (X)
ROW RAIL	EXISTING GRAVEL SURFACE
SECTION CORNER	EXISTING LOT LINE
CHISELED X	EXISTING SECTION LINE
AREA INTAKE	EXISTING UNDERGROUD TELEVISION (UGTV)
FIRE HYDRANT	EXISTING OVERHEAD ELECTRIC (OHE)
GUY WIRE	EXISTING UNDERGROUND ELECTRIC (UGE)
MAILBOX	EXISTING FIBER OPTIC (FO)
POWERPOLE	EXISTING GAS (GAS)
CONIFEROUS TREE	EXISTING SANITARY SEWER (SAN)
DECIDUOUS TREE	EXISTING STORM SEWER (ST)
CORNER MONUMENT	EXISTING CULVERT
B-INT BEEHIVE INTAKE	EXIST UNDERGROUND TELEPHONE (UGT)
CABLE BOX	EXISTING TRAFFIC SIGNALING
CLEAN OUT	EXISTING WATER (W)
ELECTRIC METER	EXISTING RR
ELECTRIC BOX	SUBDRAIN
PHONE BOOTH	MINOR CONTOUR (1041)
GAS METER	MAJOR CONTOUR (1045)
CURB INTAKE	PERMANENT EASEMENT (ESMT-PERM)
HANDICAP	TEMPORARY EASEMENT (ESMT-TMP)
INTAKE	FLOOD PLAIN
LIGHT POLE	FLOOD WAY
SANITARY MANHOLE	FENCE (X)
MONITORING WELL	GRADING LIMITS
POST	CONSTRUCTION LIMITS
RAILROAD SIGN	SANITARY SEWER (SAN)
SATELLITE DISH	WATTLES
SIGN	STORM SEWER (ST)
SIGN	RIGHT OF WAY (ROW)
SOIL BORING	SHEET PILE
TREE STUMP	WATER LINE (W)
TELEPHONE BOX	WETLAND (WETL)
TELEPHONE PEDESTAL	EDGE OF GRAVEL
TRAFFIC LIGHT	REMOVAL OF SANITARY SEWER (SAN)
TRAFFIC SIGNAL	ABANDONMENT OF SANITARY SEWER (SAN)
TRAFFIC SIGN	REMOVAL OF STORM SEWER (ST)
YARD LIGHT	ABANDONMENT OF STORM SEWER (ST)
BURIED VALVE	REMOVAL OF WATER (W)
BURIED WATER VALVE	ABANDONMENT OF WATER (W)
REMOVE TREE	
PRESERVE AND PROTECT EX. TREE	
REMOVE TREE BY OTHERS	
BOLLARD	
EASEMENT	
TEMPORARY EASEMENT	

NOTES:

1. "SCREENED" (LIGHT) DELINEATION SHOWN IN THIS SHEET DENOTES EXISTING CONDITIONS. "SCREENED" INFORMATION IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING OF MATERIALS AND BEGINNING CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

Xrefs: xgl-1-dh01; XV-0-AERIAL; Aerial; xC-0-000

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APPROVED:	BM	JOB NUMBER:	2402192
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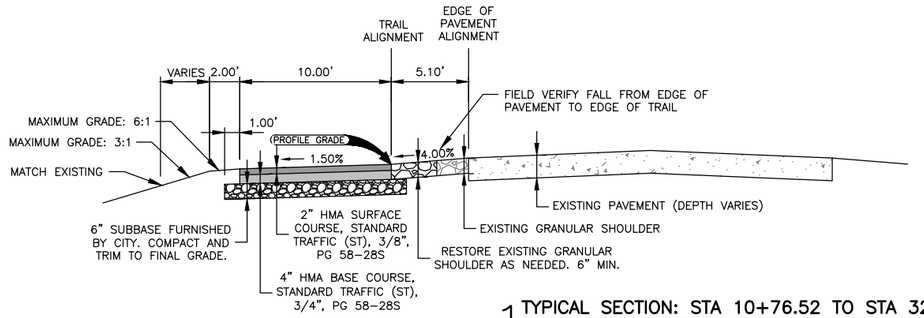
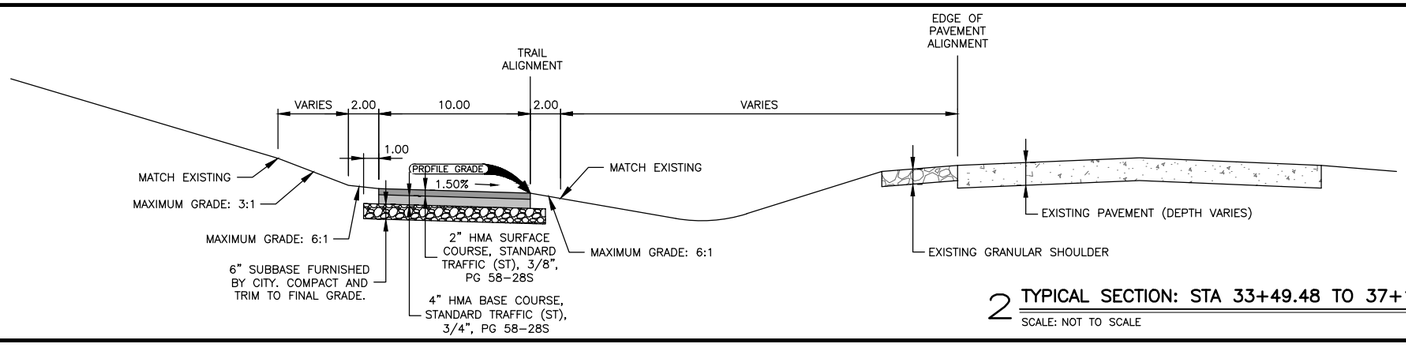
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

TITLE SHEET
LEGEND

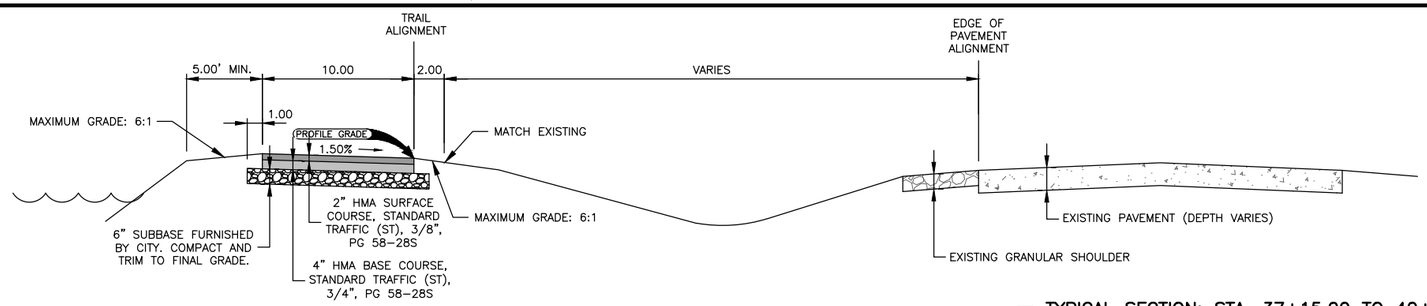
SHEET NO.
A.02



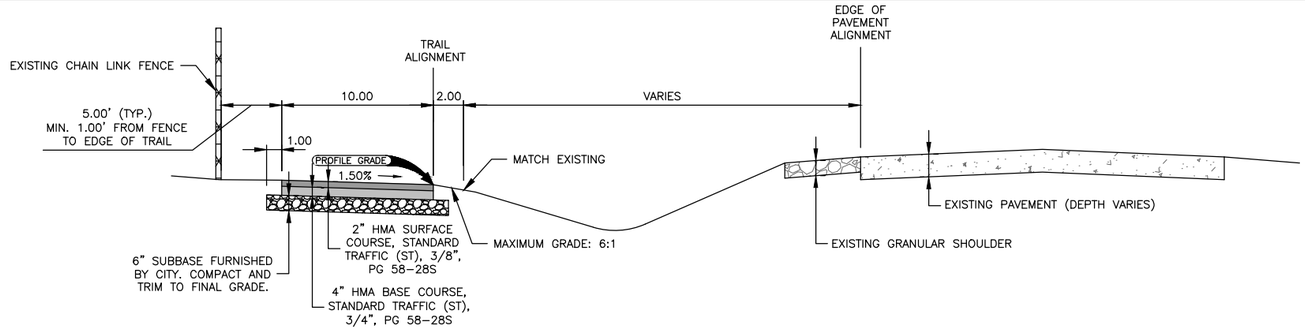
1 **TYPICAL SECTION: STA 10+76.52 TO STA 32+96.25**
SCALE: NOT TO SCALE



2 **TYPICAL SECTION: STA 33+49.48 TO 37+15.00, STA 40+35.00 TO STA. 45+68.60, STA. 65+50.00 TO 70+40.43**
SCALE: NOT TO SCALE



3 **TYPICAL SECTION: STA. 37+15.00 TO 40+35.00**
SCALE: NOT TO SCALE



4 **TYPICAL SECTION: STA 56+99.16 TO STA. 65+50.00**
SCALE: NOT TO SCALE

Xrefs: xgl-1-dh01; XV-0-ROW

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APPROVED: BM JOB NUMBER: 2402192
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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

TYPICAL SECTIONS AND DETAILS
TYPICAL SECTIONS

SHEET NO.
B.01

ESTIMATED PROJECT QUANTITIES

NO.	CODE	BID ITEM	UNITS	TOTAL QUANTITY
DIVISION 1				
1-1	2010-D	TOPSOIL, ON-SITE, DIVISION 1	CY	1210
1-2	2010-E	EXCAVATION, CLASS 10, DIVISION 1	CY	1045
1-3	4030-A-1	PIPE CULVERT, TRENCHED, CMP, 18"	LF	36
1-4	4030-A-1	PIPE CULVERT, TRENCHED, RCP, 21"	LF	34
1-5	4030-A-1	PIPE CULVERT, TRENCHED, RCP, 30"	LF	21
1-6	4030-B	PIPE APRONS, CMP, 18"	EA	4
1-7	4030-B	PIPE APRONS, RCP, 21"	EA	2
1-8	4030-B	PIPE APRONS, RCP, 30"	EA	2
1-9	4999-A	REMOVAL OF STORM SEWER, APRONS	EA	2
1-10	4999-B	CONCRETE COLLAR	EA	2
1-11	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1
1-12	9040-A-2	SWPPP MANAGEMENT	LS	1
1-13	9040-F-1	WATTLES, 12", INSTALLATION	LF	5175
1-14	11,020-A	MOBILIZATION	LS	1
DIVISION 2				
2-1	2010-D	TOPSOIL, ON-SITE, DIVISION 2	CY	912
2-2	2010-E	EXCAVATION, CLASS 10, DIVISION 2	CY	339
2-3	2010-J	SUBBASE COMPACTING AND TRIMMING	SY	5826
2-4	7030-C	SHARED USE PATH, HMA, 6"	SY	4597
2-5	7030-E	SIDEWALK, PCC, 4"	SY	14
2-6	7030-E	SIDEWALK, PCC, 5"	SY	148
2-7	7030-E	SIDEWALK, PCC, 6"	SY	285
2-8	7030-G	DETECTABLE WARNING	SF	170
2-9	7999-A	GRANULAR SHOULDERS, TYPE B	TON	150
2-10	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1
2-11	9010-A	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	AC	1
2-12	9040-A-2	SWPPP MANAGEMENT	LS	1
2-13	9040-F-2	WATTLES, 12", REMOVAL	LF	5175
2-14	11,020-A	MOBILIZATION	LS	1

ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	ITEM DESCRIPTION
DIVISION 1		
1-1	2010-D	TOPSOIL, ON-SITE, DIVISION 1
		A. THIS ITEM IS FOR INITIAL STRIPPING AND STOCKPILING OF 8" OF TOPSOIL.
1-2	2010-E	EXCAVATION, CLASS 10, DIVISION 1
		A. THIS ITEM IS FOR EXCAVATION AND ROUGH GRADING IN PREPARATION FOR SUBBASE TO BE FURNISHED AND PLACED BY CITY.
		B. THIS ITEM INCLUDES SUBGRADE PREPARATION UNDER PROPOSED TRAIL PAVEMENT PLUS 1' ON EACH SIDE.
1-3	4030-A-1	PIPE CULVERT, TRENCHED, CMP, 18"
1-4	4030-A-1	PIPE CULVERT, TRENCHED, RCP, 21"
1-5	4030-A-1	PIPE CULVERT, TRENCHED, RCP, 30"
		A. FIELD VERIFY PIPE SIZES FOR CULVERT EXTENSIONS PRIOR TO ORDERING MATERIAL.
		B. TESTING NOT REQUIRED.
1-6	4030-B	PIPE APRONS, CMP, 18"
1-7	4030-B	PIPE APRONS, RCP, 21"
1-8	4030-B	PIPE APRONS, RCP, 30"
		A. FIELD VERIFY PIPE SIZES FOR CULVERT EXTENSIONS PRIOR TO ORDERING MATERIAL.
1-9	4999-A	REMOVAL OF STORM SEWER, APRONS
		A. THIS ITEM IS FOR THE REMOVAL OF EXISTING STORM SEWER PIPE APRONS.
		B. REMOVED APRONS SHALL BECOME PROPERTY OF THE CONTRACTOR.
1-10	4999-B	CONCRETE COLLAR
		A. THIS ITEM IS FOR CONCRETE COLLARS AT CULVERT EXTENSIONS IF NECESSARY FOR CONNECTION TO EXISTING PIPES.
		B. REFER TO SUDAS FIGURE 4020.211 TYPE PC-2.
1-11	8030-A	TEMPORARY TRAFFIC CONTROL
		A. COORDINATE TRAFFIC CONTROL WITH CITY.
		B. EXPECTED TRAFFIC CONTROL INCLUDES BUT IS NOT LIMITED TO:
		- ROAD WORK AHEAD (W20-1) SIGNS IN ADVANCE OF WORK ZONE IN ALL DIRECTIONS
		- SHOULDER CLOSED (W21-5A) SIGNS IN ADVANCE OF WORK ALONG ROADWAY SHOULDER
		- CHANNELIZING DEVICES ADJACENT TO ROADWAY DURING WORK ALONG SHOULDER. SPACING NOT TO EXCEED 70 FEET.
		C. CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL IS COMPLIANT WITH THE LATEST VERSION OF THE MUTCD.
		D. CONTRACTOR SHALL UTILIZE SUDAS DETAILS 8030.105 AND 8030.106 FOR ANY SHORT-TERM LANE CLOSURES.
		E. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
1-12	9040-A-2	SWPPP MANAGEMENT
1-13	9040-F-1	WATTLES, 12", INSTALLATION
		A. REFER TO F SHEETS FOR LOCATIONS.
1-14	11,020-A	MOBILIZATION

ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	ITEM DESCRIPTION
DIVISION 2		
2-1	2010-D	TOPSOIL, ON-SITE, DIVISION 2
		A. THIS ITEM IS FOR FINAL PLACEMENT OF TOPSOIL.
		B. THIS ITEM INCLUDES PREPARING THE TOPSOIL PLACEMENT AREA BY TILLAGE OR RIPPING; RESPREADING THE TOPSOIL;
		ADDITIONAL TILLAGE TO ADDRESS COMPACTION DURING PLACEMENT; AND REMOVAL OF CLODS, ROOTS, STONES, AND OTHER
		UNDESIREABLE MATERIALS.
		C. QUANTITY INCLUDES SHRINKAGE FACTOR OF 1.35.
2-2	2010-E	EXCAVATION, CLASS 10, DIVISION 2
		A. THIS ITEM IS FOR FINAL GRADING.
		B. QUANTITY INCLUDES SHRINKAGE FACTOR OF 1.35.
2-3	2010-J	SUBBASE COMPACTING AND TRIMMING
		A. CITY TO FURNISH AND PLACE SUBBASE MATERIAL.
		B. THIS ITEM IS FOR COMPACTING AND TRIMMING TO THE PROPER GRADE.
2-4	7030-C	SHARED USE PATH, HMA, 6"
		A. THIS ITEM WILL BE MEASURED BY SQUARE YARDS.
		B. SURFACE COURSE SHALL BE 2" STANDARD TRAFFIC (ST), 3/8", PG 58-28S
		C. BASE COURSE SHALL BE 4" STANDARD TRAFFIC (ST), 3/4", PG 58-28S.
		D. REFER TO CROSS SECTIONS IN B SHEETS.
2-5	7030-E	SIDEWALK, PCC, 4"
2-6	7030-E	SIDEWALK, PCC, 5"
2-7	7030-E	SIDEWALK, PCC, 6"
		A. REFER TO S SHEETS FOR SIDEWALK COMPLIANCE. FIELD VERIFY ELEVATIONS/GRADES TO ENSURE ADA COMPLIANCE.
		B. PROVIDE UNIFORM PCC JOINT SPACING. SPACE JOINTS EQUAL TO THE WIDTH OF PAVING.
		C. INCLUDES CONCRETE WASHOUT.
2-8	7030-G	DETECTABLE WARNING
		A. MATERIAL SHALL BE CAST IRON WITH NATURAL FINISH.
2-9	7999-A	GRANULAR SHOULDERS, TYPE B
		A. SEE IOWA DOT SPECIFICATION SECTION 2121.
		B. QUANTITY BASED ON ASSUMED 3" DEPTH OF GRANULAR SHOULDER MATERIAL REQUIRED TO BE ADDED.
		C. QUANTITY BASED ON A DENSITY OF 140 PCF.
		D. PAYMENT WILL BE BASED ON ACTUAL QUANTITY PLACED.
2-10	8030-A	TEMPORARY TRAFFIC CONTROL
		A. COORDINATE TRAFFIC CONTROL WITH CITY.
		B. EXPECTED TRAFFIC CONTROL INCLUDES BUT IS NOT LIMITED TO:
		- ROAD WORK AHEAD (W20-1) SIGNS IN ADVANCE OF WORK ZONE IN ALL DIRECTIONS
		- SHOULDER CLOSED (W21-5A) SIGNS IN ADVANCE OF WORK ALONG ROADWAY SHOULDER
		- CHANNELIZING DEVICES ADJACENT TO ROADWAY DURING WORK ALONG SHOULDER. SPACING NOT TO EXCEED 70 FEET.
		C. CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL IS COMPLIANT WITH THE LATEST VERSION OF THE MUTCD.
		D. CONTRACTOR SHALL UTILIZE SUDAS DETAILS 8030.105 AND 8030.106 FOR ANY SHORT-TERM LANE CLOSURES.
		E. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
2-11	9010-A	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING
2-12	9040-A-2	SWPPP MANAGEMENT
2-13	9040-F-2	WATTLES, 12", REMOVAL
		A. REFER TO F SHEETS FOR LOCATIONS.
2-14	11,020-A	MOBILIZATION

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NO.	DATE	BY	REVISION DESCRIPTION

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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

QUANTITIES AND TABULATIONS
ESTIMATED PROJECT QUANTITIES AND REFERENCE INFORMATION

SHEET NO.
C.01

Xrefs: xg-1-db01

SIDEWALKS

ROAD IDENTIFICATION	QUADRANT/ SIDE	STATION TO STATION		EDGE OF ROAD TO FACE OF PATH	WIDTH OF SIDEWALK	PARKING SLOPE	4" PCC SIDEWALK	5" PCC SIDEWALK	6" PCC SIDEWALK	6" HMA PATH	6" GRANULAR SUBBASE	DETECTABLE WARNINGS	REMARKS
				FT	FT	%	SY	SY	SY	SY	SY	SF	
19TH STREET	WEST	100+35.38	100+49.13	N/A	10.0	N/A	4.4		14.1		17.1	20.0	
19TH STREET	WEST	100+49.13	103+61.51	5.1	10.0	4.0				347.2	416.6		
19TH STREET	WEST	103+61.51	104+28.85	0.0	VARIES	N/A			46.7		53.9		
19TH STREET	WEST	107+05.05	107+59.33	0.0	VARIES	N/A			36.4		41.5		
19TH STREET	WEST	107+59.33	111+95.99	5.1	10.0	4.0				485.2	582.3		
19TH STREET	WEST	111+95.99	112+13.38	N/A	10.0	N/A			14.2		16.9	31.3	
19TH STREET	WEST	112+59.39	112+76.14	N/A	10.0	N/A			13.4		15.9	30.6	
19TH STREET	WEST	112+76.14	122+44.99	5.1	10.0	4.0				1075.8	1290.9		
19TH STREET	WEST	122+44.99	122+61.56	N/A	10.0	N/A			15.7		18.9	24.1	
19TH STREET	WEST	123+14.79	123+36.20	N/A	10.0	N/A	8.7		21.1			23.6	
19TH STREET	WEST	123+36.20	135+26.13	N/A	10.0	N/A				1321.0	1585.3		
19TH STREET	WEST	135+26.13	135+41.72	N/A	VARIES	N/A			22.1		25.6		
19TH STREET	WEST	146+74.60	146+94.65	N/A	VARIES	N/A			25.9		31.8		
19TH STREET	WEST	146+94.65	156+79.72	N/A	10.0	N/A				1094.9	1313.8		
19TH STREET	WEST	157+04.38	159+50.65	N/A	10.0	N/A				272.0	326.0		
19TH STREET	WEST	159+50.65	159+58.66	N/A	10.0	N/A			10.0		12.0	20.0	
19TH STREET	WEST	159+90.76	160+48.86	N/A	10.0	N/A			64.6		77.5	20.0	
FIELD HOUSE	N/A	200+05.00	202+60.70	N/A	5.0	N/A		147.3					
						TOTAL:	13.1	147.3	284.2	4596.1	5826.0	169.6	

CULVERTS

* Bid Item

INTAKES AND UTILITY ACCESSES

No.	Location Station	Type or Standard Road Plan*	RIM / FG	Bottom Well	Notes
			Elev.	Elev.	
C-1	45+35.92, 80.5' LT	18" CMP APRON	993.41	N/A	
C-2	45+31.85, 64.0' RT	18" CMP APRON	993.25	N/A	
C-3	65+64.49, 55.8' LT	30" RCP APRON	985.90	N/A	
C-4	65+64.64, 34.8' LT	30" RCP APRON	985.82	N/A	
C-5	70+17.92, 89.9' LT	21" RCP APRON	987.33	N/A	
C-6	70+25.42, 89.8' RT	21" RCP APRON	987.33	N/A	
C-7	200+24.68, 9.0' LT	18" CMP APRON	996.92	N/A	
C-8	200+35.12, 6.0' RT	18" CMP APRON	996.22	N/A	

NOTES:

PIPES

Design Length, Slope and Flowlines are calculated from end of pipe to end of pipe along CL of pipe, exclusive of aprons.

Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class	Pipe Diameter	Bid Length*	Design Length	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Granular Backfill	Pipe Plan Sheet No.	Notes
				Inches	Feet	Feet				CY		
P-1	C-1	C-2	N/A	18	17	17.00	0.94%	993.41	993.25	15.20	M.01	CORRUGATED METAL PIPE
P-2	C-3	C-4	III	30	21	21.00	0.38%	985.90	985.82	18.30	M.01	CONCRETE PIPE
P-3	EXIST	C-5	III	21	17	17.00	0.28%	987.38	987.33	9.80	M.01	CONCRETE PIPE
P-4	EXIST	C-6	III	21	17	17.00	0.29%	987.39	987.33	9.80	M.01	CONCRETE PIPE
P-5	C-7	C-8	N/A	18	19	19.00	3.82%	996.92	996.22	12.00	M.02	CORRUGATED METAL PIPE
				PIPE LENGTH TOTALS (LF):	CMP 18":	36						
				PIPE LENGTH TOTALS (LF):	RCP 21":	34						
				PIPE LENGTH TOTALS (LF):	RCP 30":	21						

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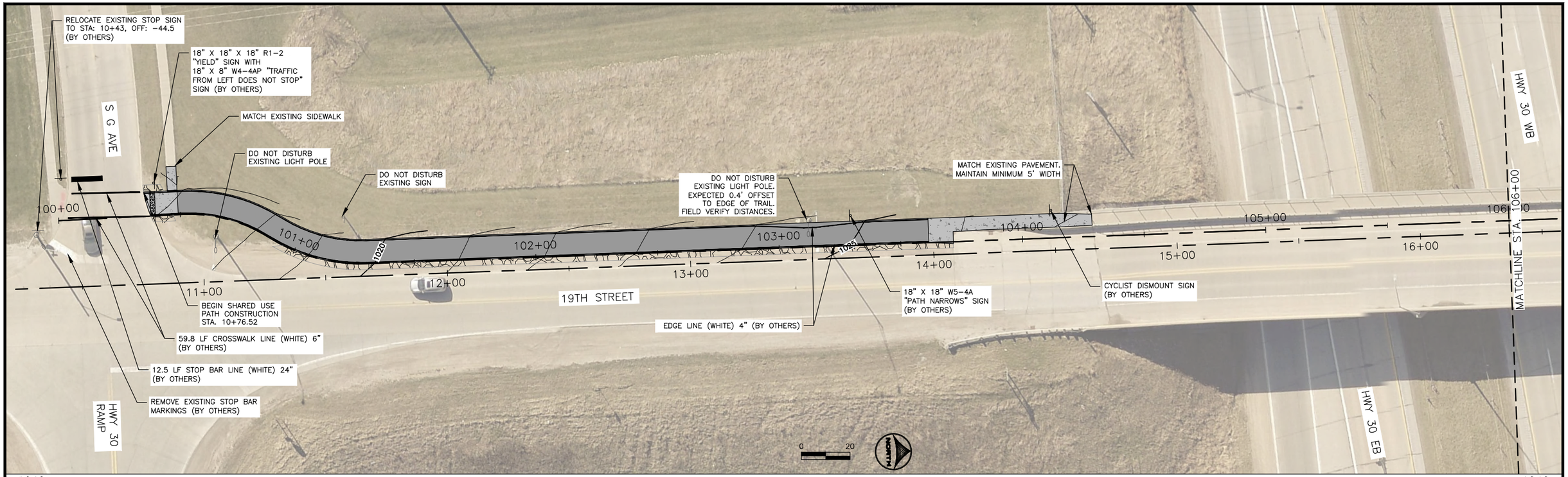
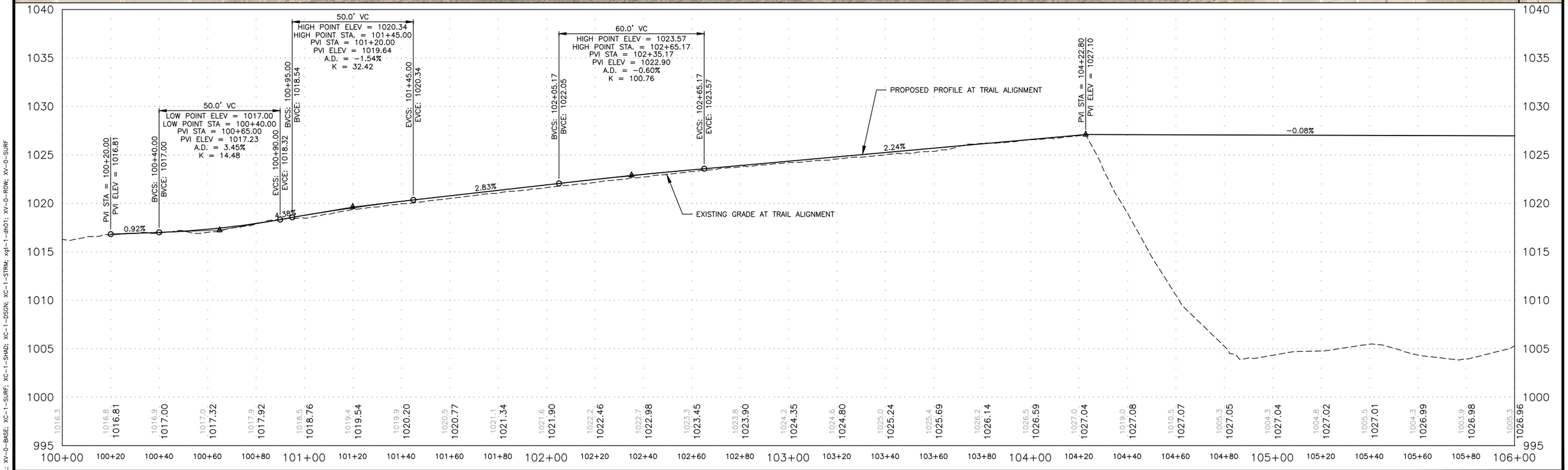
QUANTITIES AND TABULATIONS
TABULATIONS

SHEET NO.
C.02

Xrefs: xgl-1-dh01





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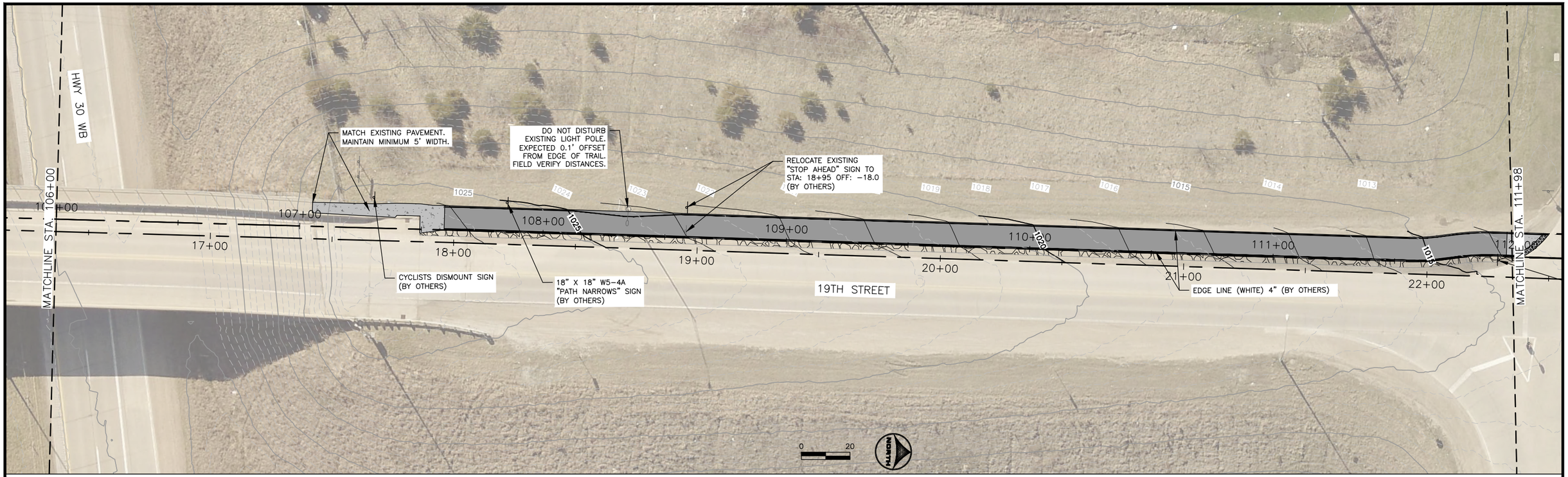
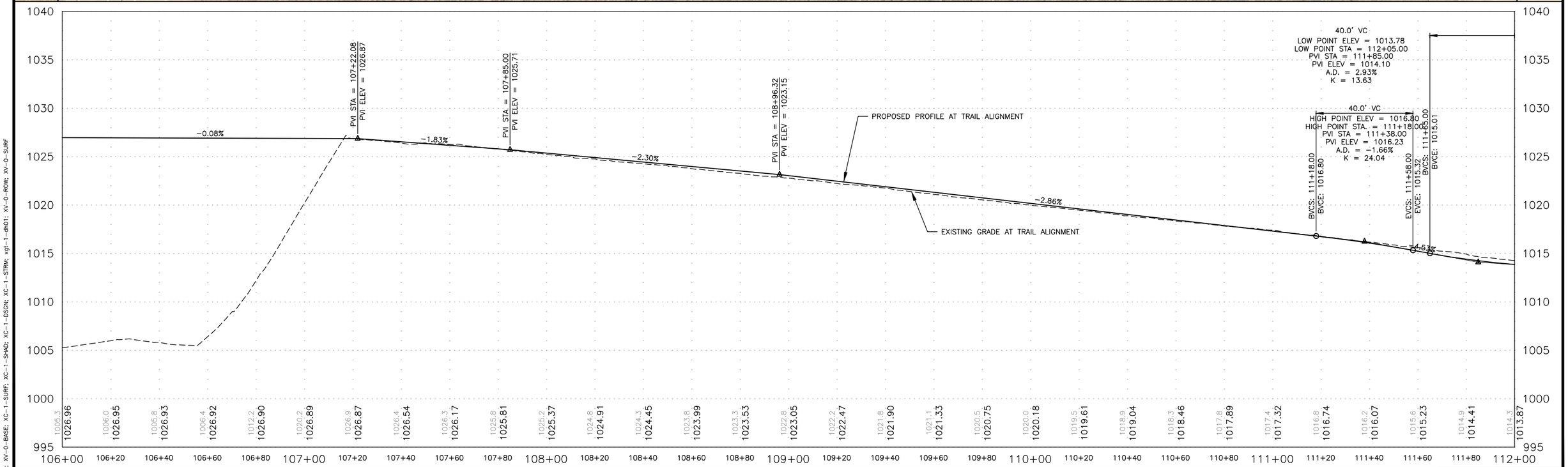
PLAN AND PROFILE
SHARED USE PATH

SHEET NO.
D.01





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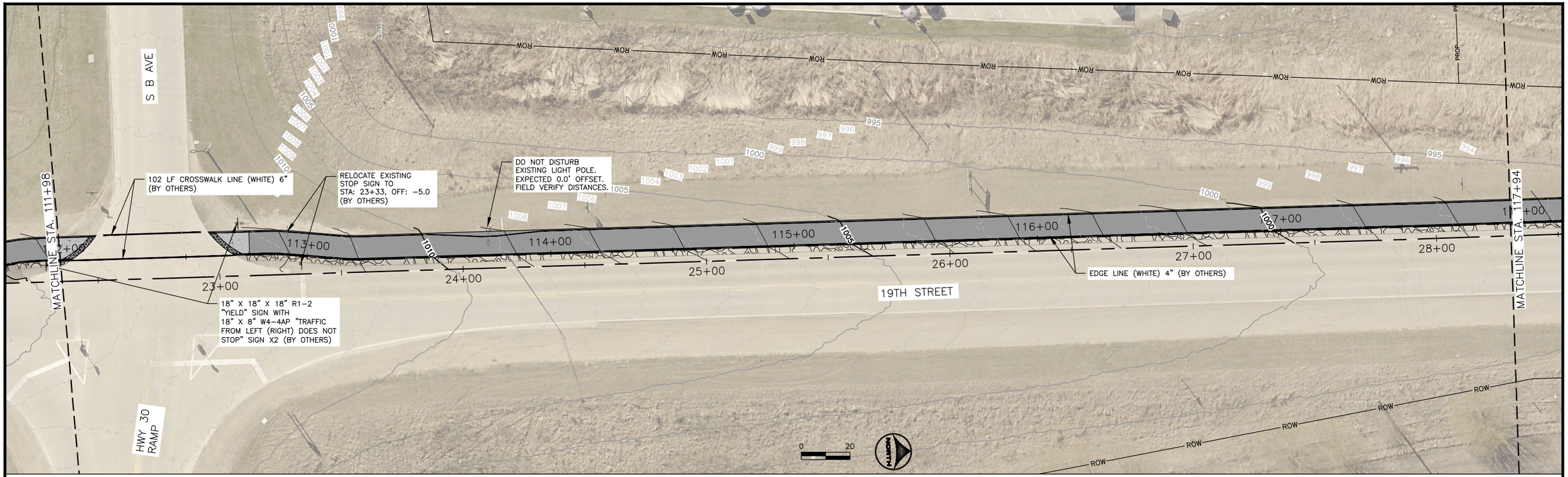
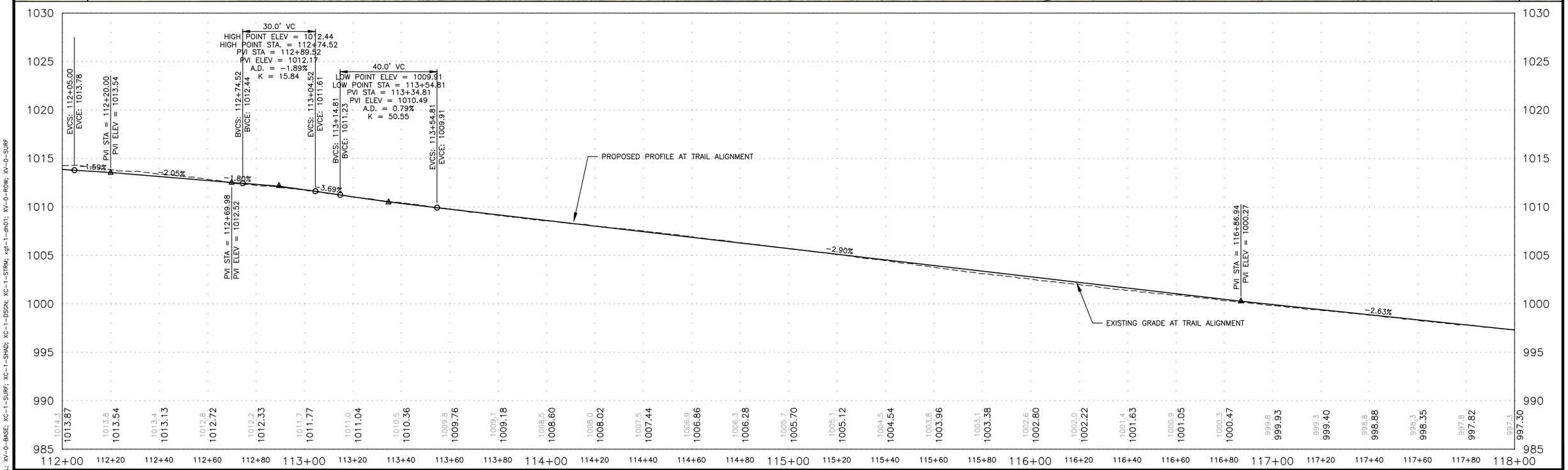
SHEET NO.
D.02





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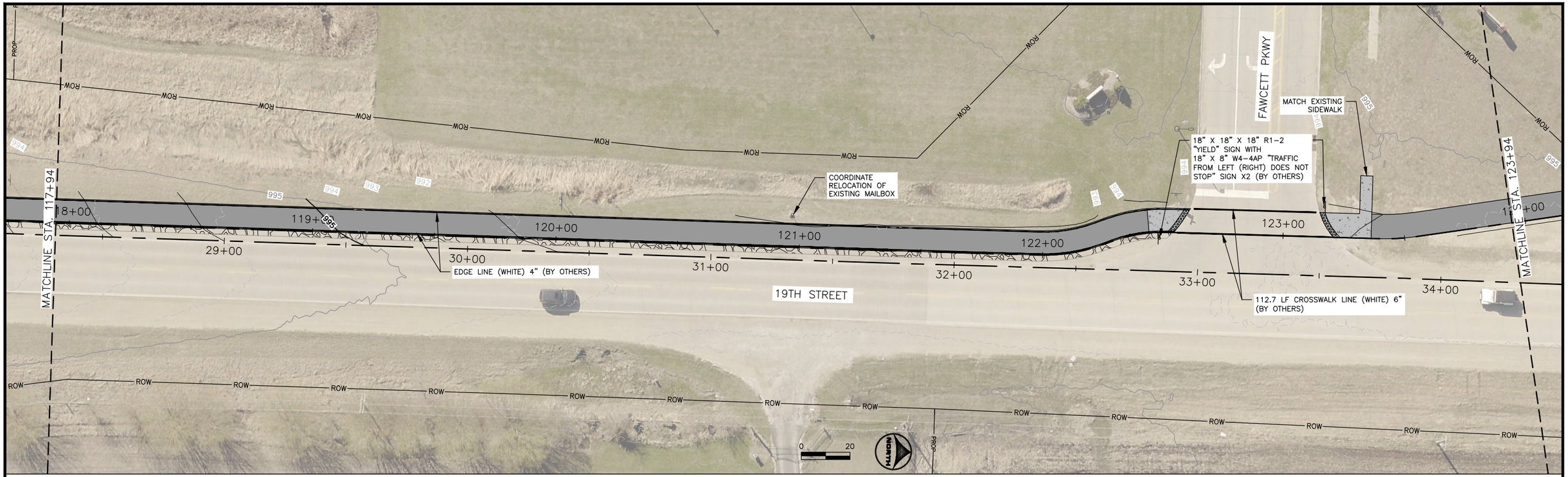
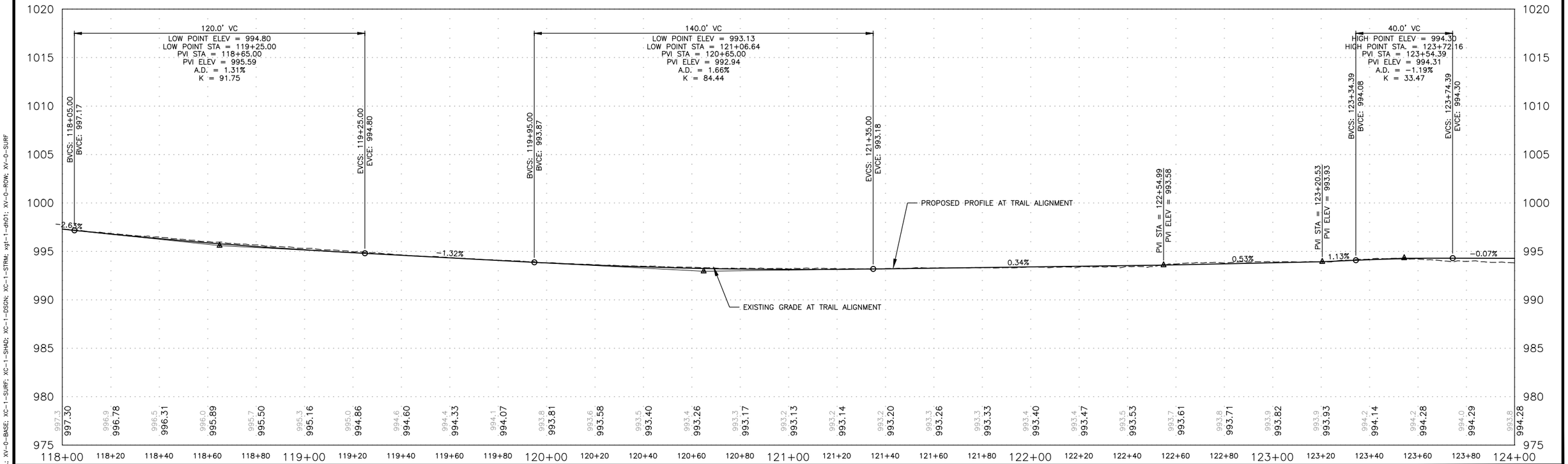
SHEET NO.
D.03

Xrefs: XV-D-AERIAL; XV-D-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xyl-1-dh01; XV-D-ROW; XV-D-SURF





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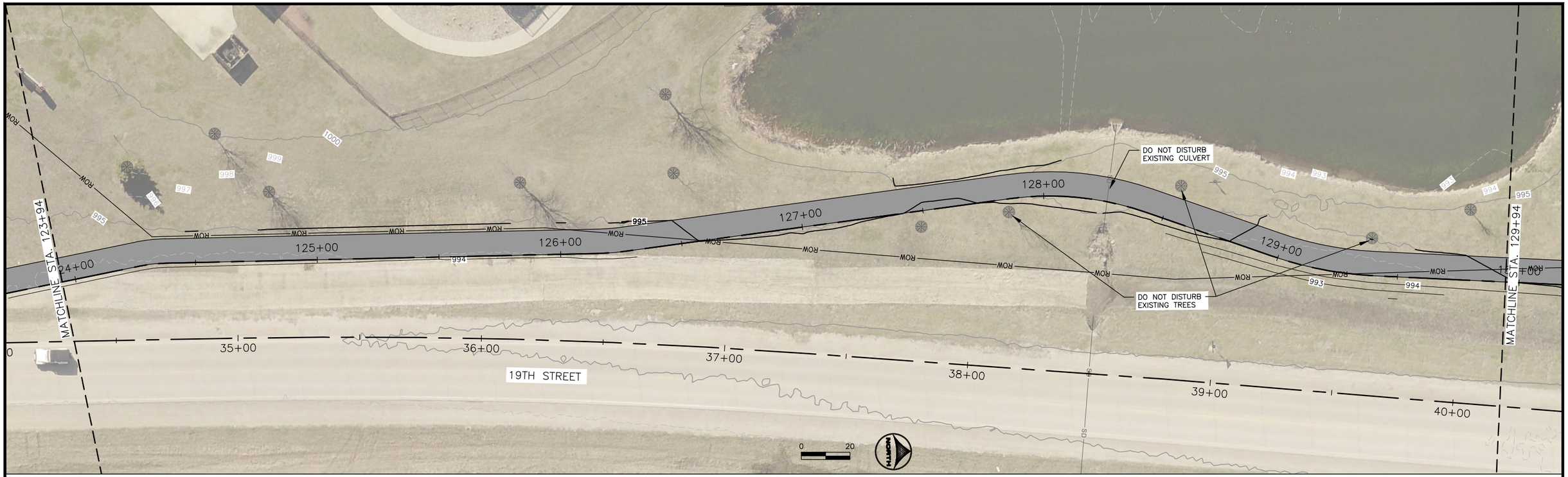
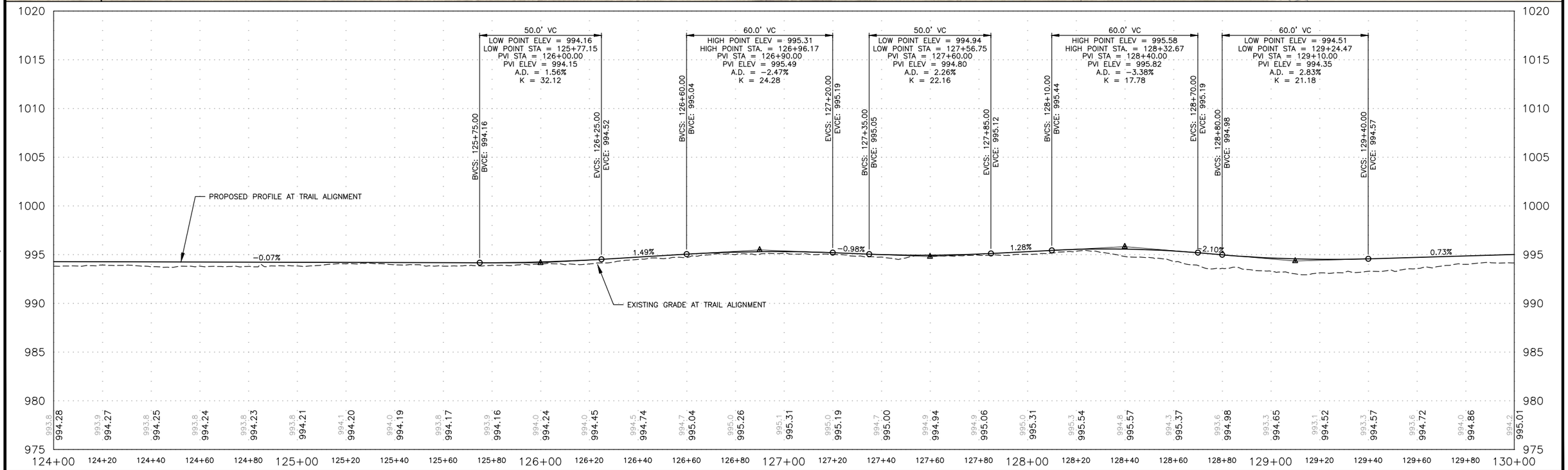
PLAN AND PROFILE
SHARED USE PATH

SHEET NO.
D.04

Xrefs: XV-D-AERIAL; XV-D-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xyl-1-dh01; XV-D-ROW; XV-D-SURF





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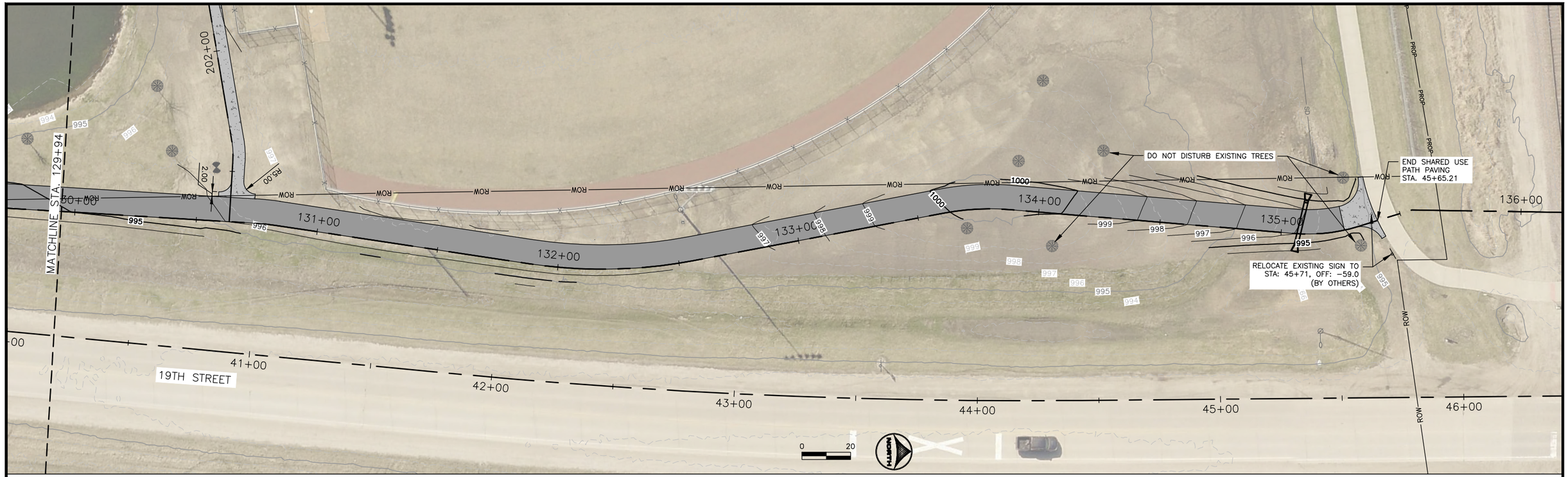
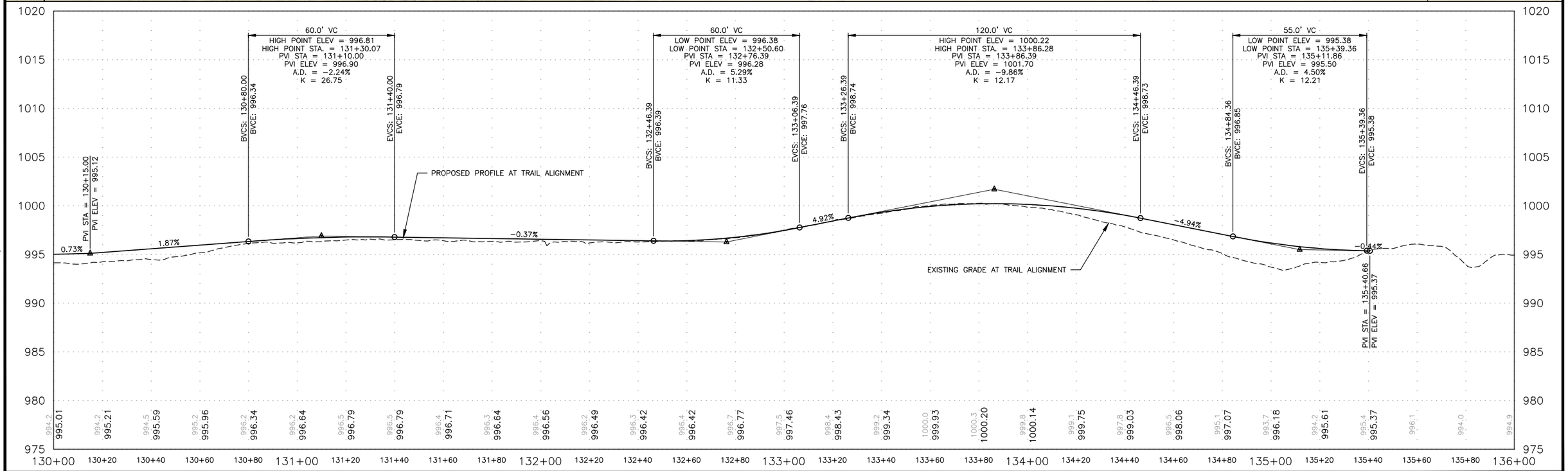
D.05





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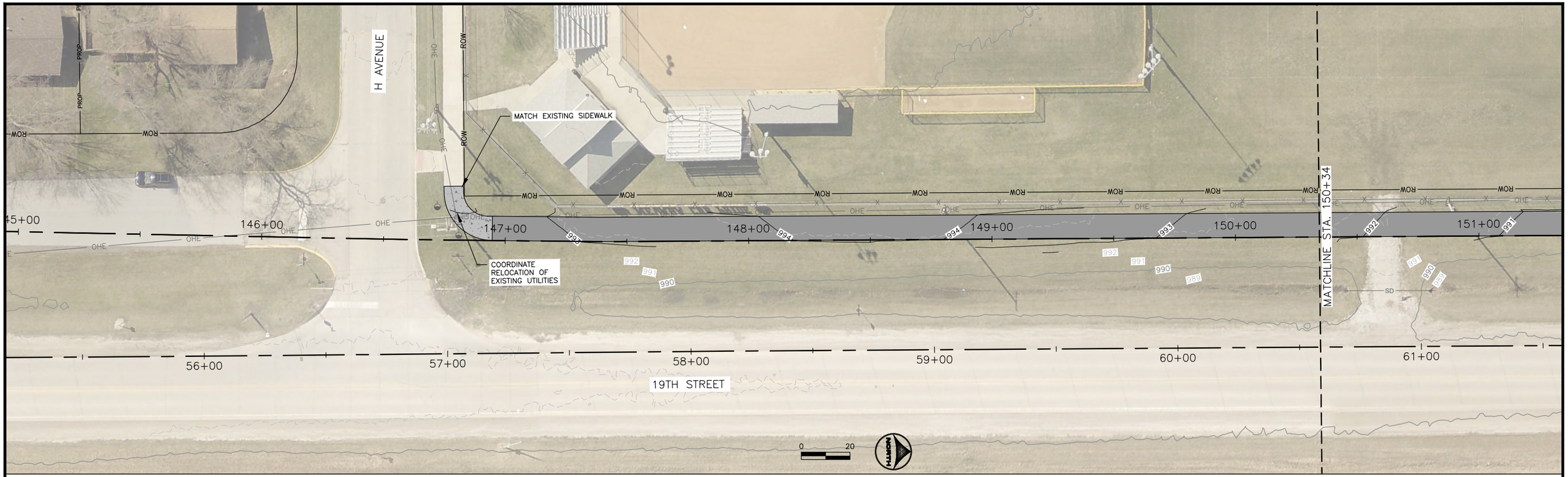
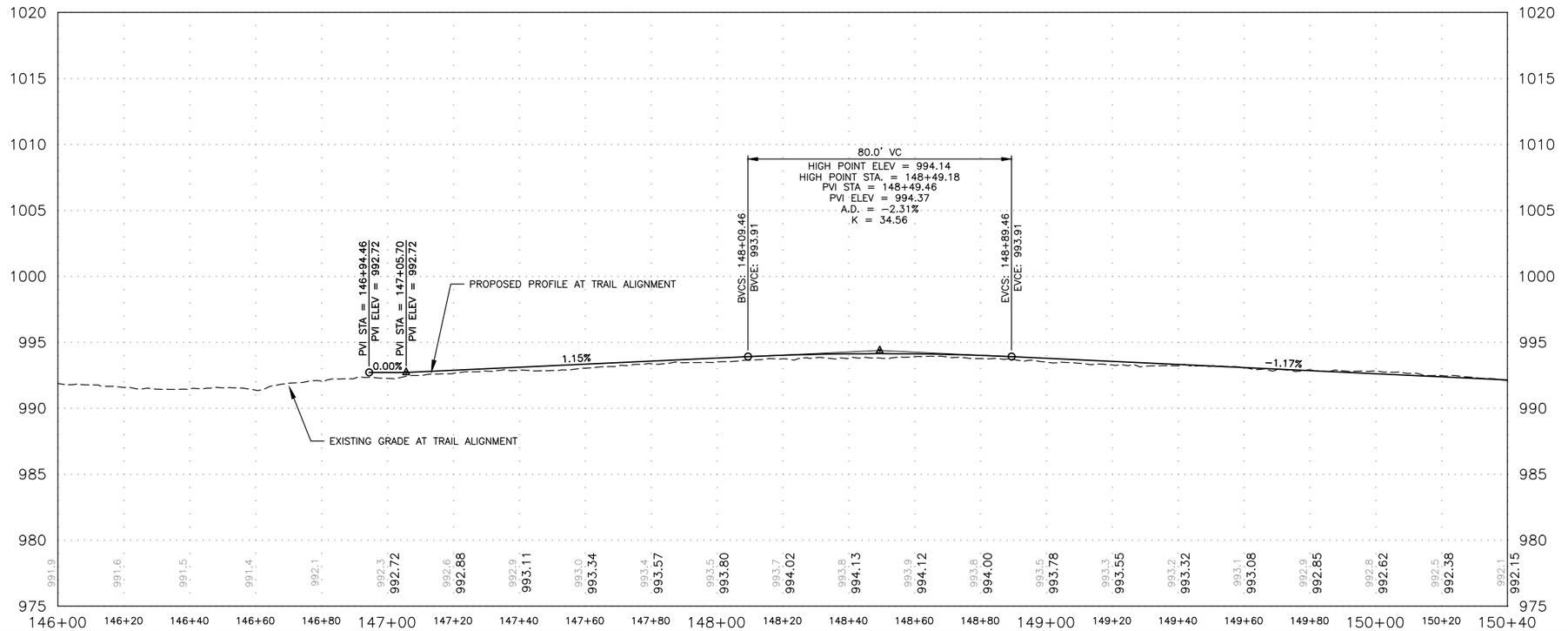
SHEET NO.
D.06

Xrefs: XV-D-AERIAL; XV-D-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xyt-1-dh01; XV-D-ROW; XV-D-SURF





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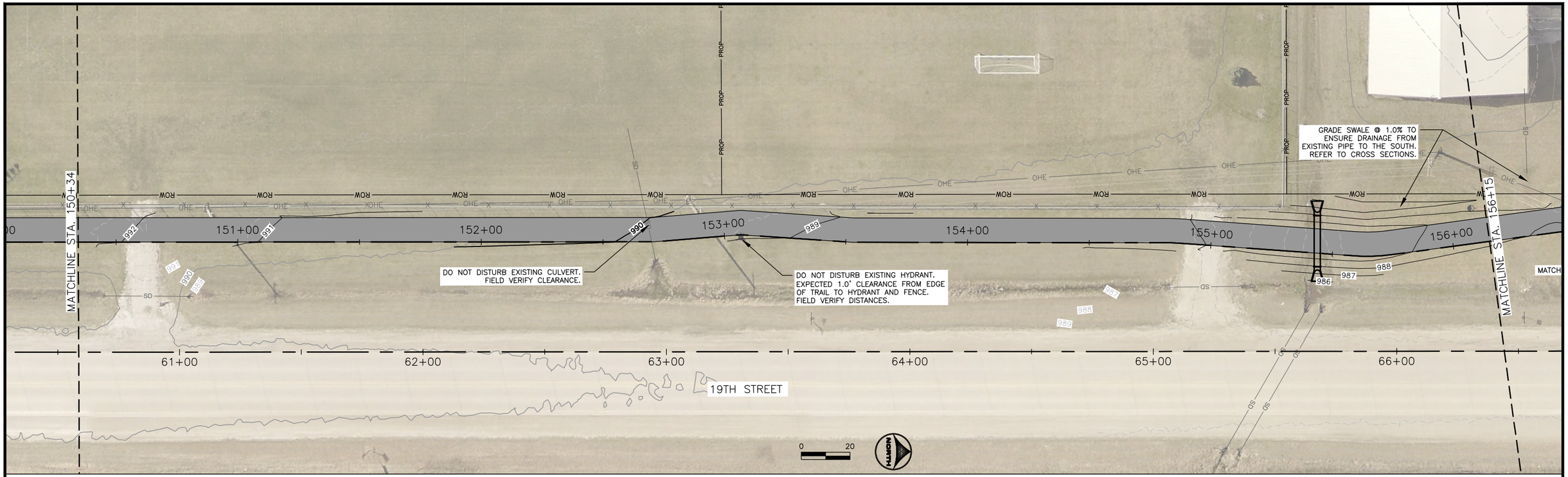
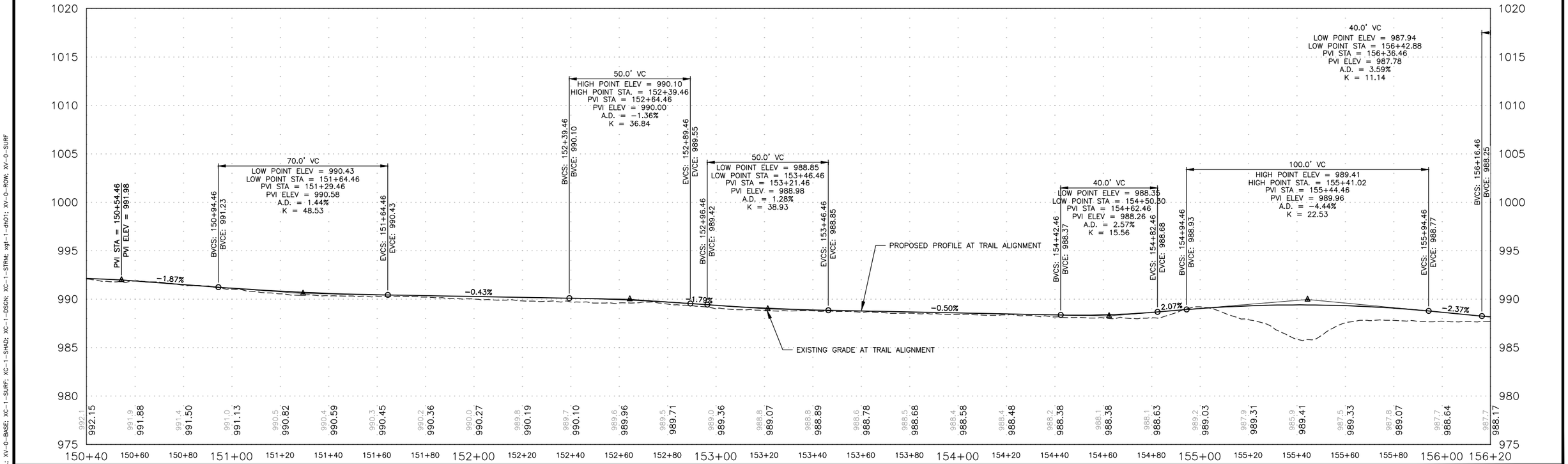
SHEET NO.
D.07

Xrefs: XV-0-AERIAL; XV-0-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xgt-1-dh01; XV-0-ROW; XV-0-SURF





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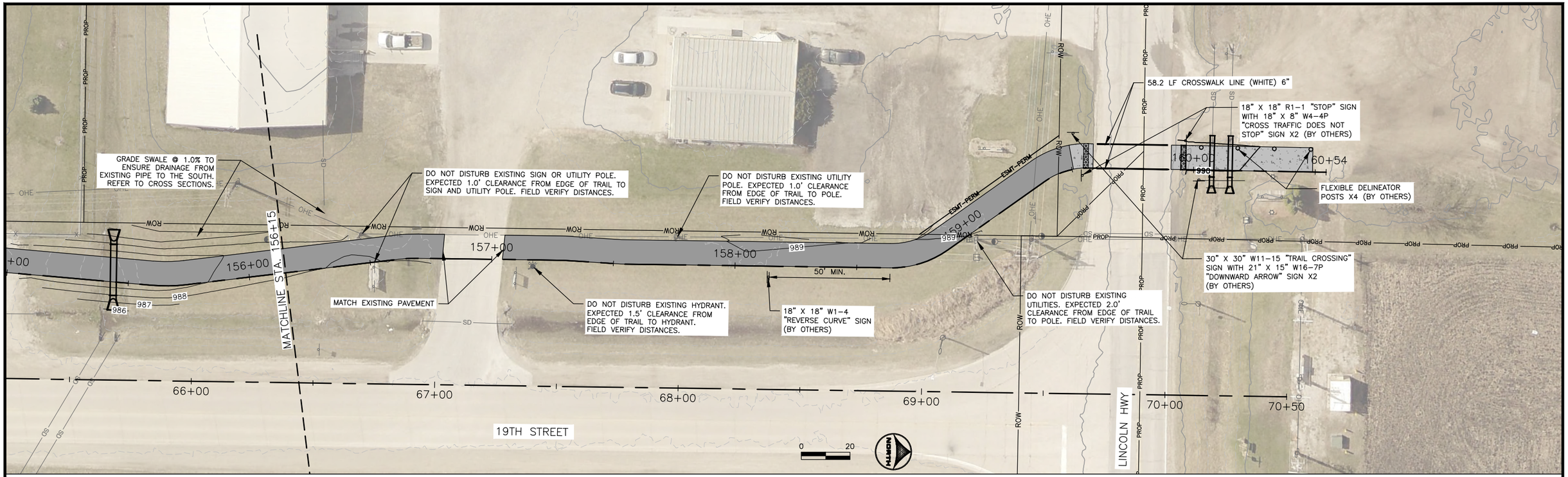
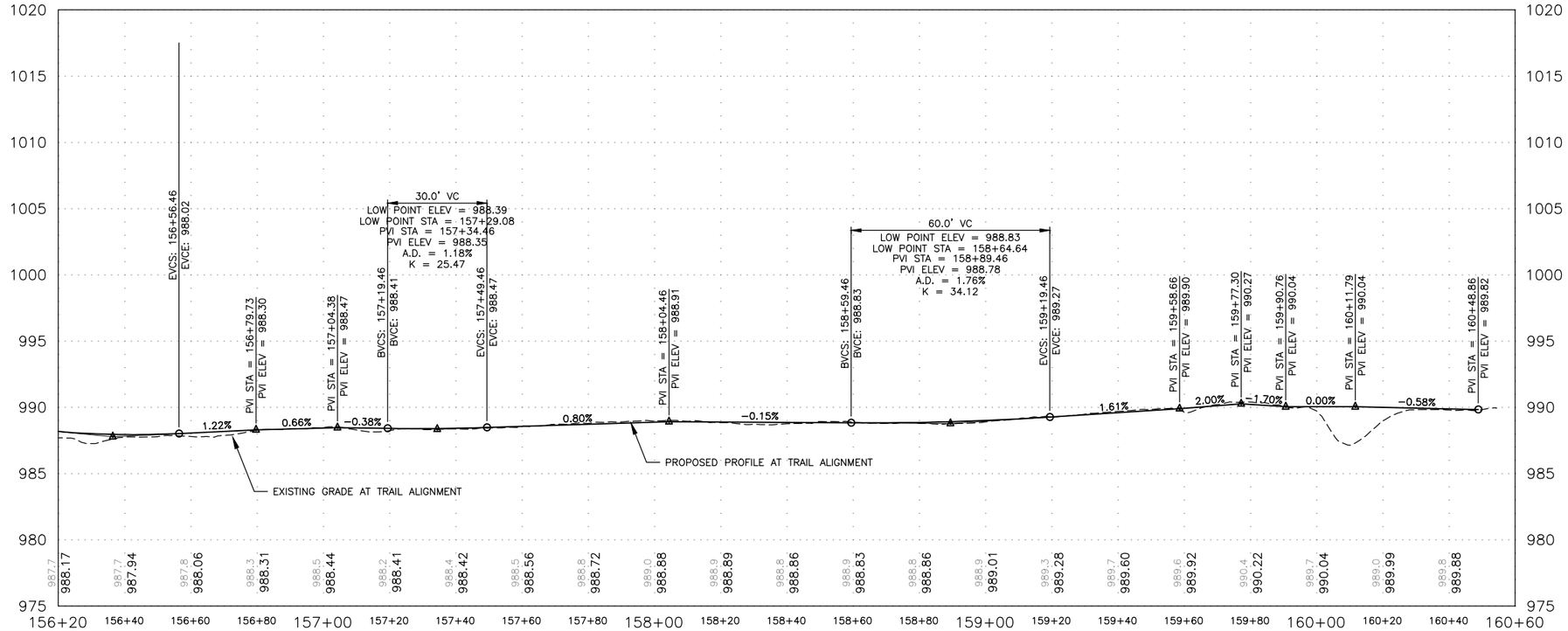
SHEET NO.
D.08

Xrefs: XV-D-AERIAL; XV-D-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xyl-1-dh01; XV-D-ROW; XV-D-SURF





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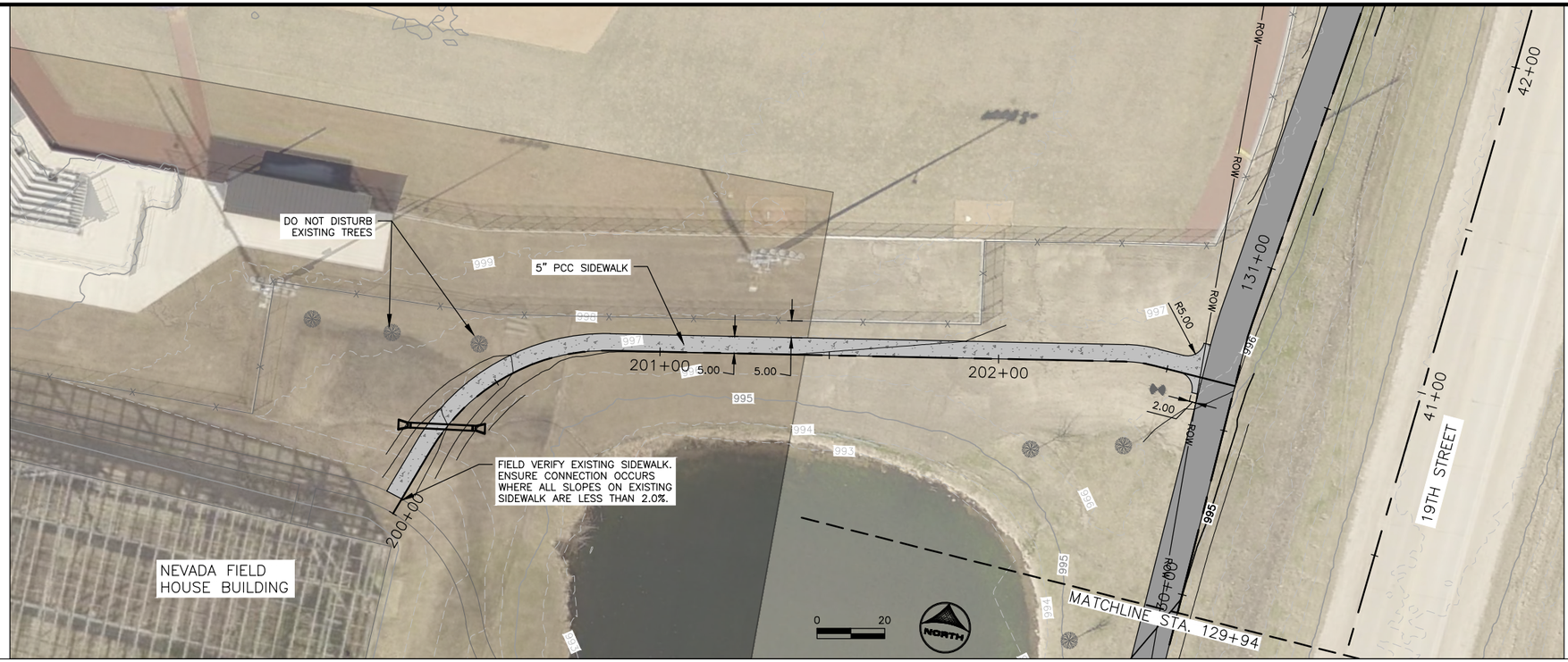
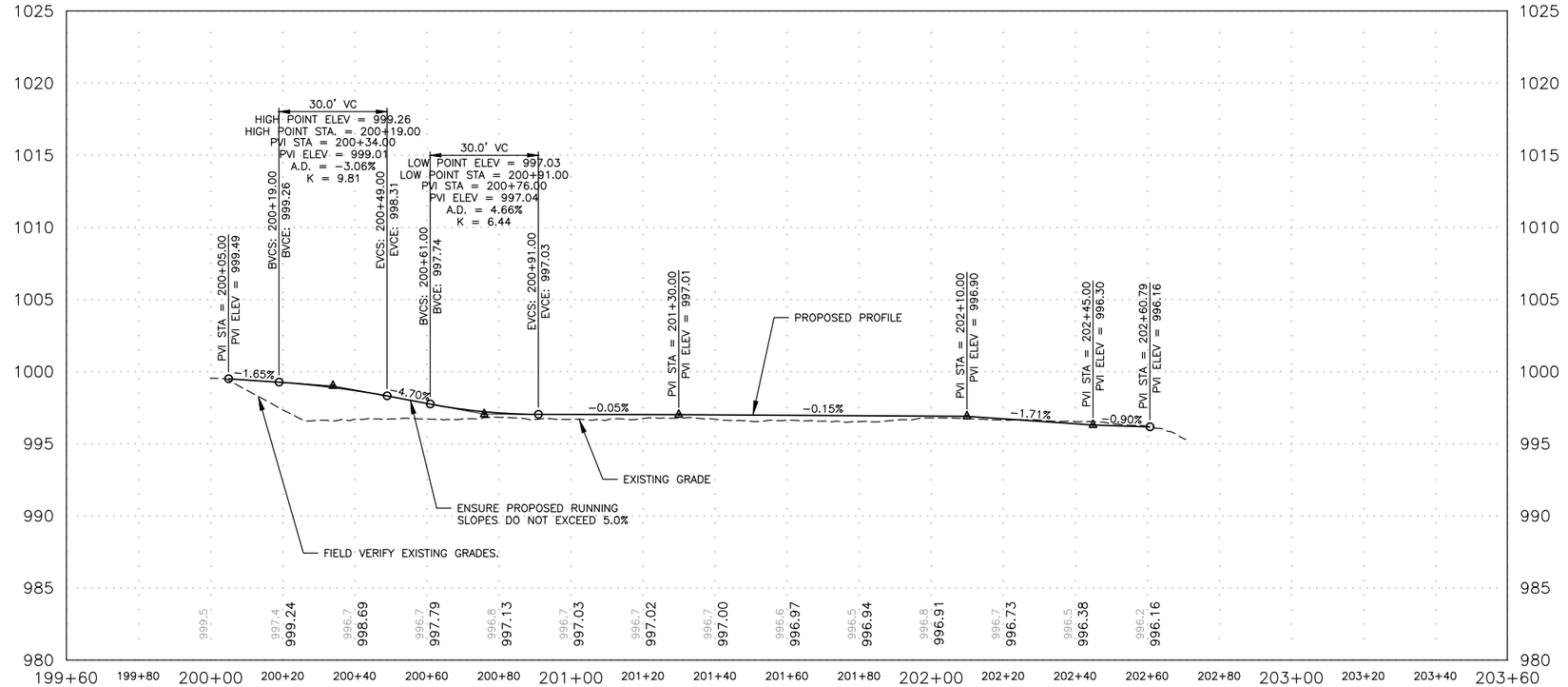
PLAN AND PROFILE
SHARED USE PATH

SHEET NO.
D.09

Xrefs: XV-D-AERIAL; XV-D-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xgl-1-dh01; XV-D-ROW; XV-D-SURF





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PLAN AND PROFILE
FIELD HOUSE WALK

SHEET NO.
D.10

Xrefs: XV-0-AERIAL; XV-0-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; xg1-1-dh01; XV-0-ROW; XV-0-SURF

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.
9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
10. Makes information to determine permit compliance available to the DNR upon their request.

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a Shared Use Path.
B. This PPP covers approximately 1.86 acres with an estimated 1.86 acres being disturbed. The portion of the PPP covered by this contract has 1.86 acres disturbed.
C. The PPP is located in an area of Clarion - Nicollet - Webster soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.6.
D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage Patterns – Plan and Profile sheets.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – Plan and Profile sheets.
4. Location of Structural Controls – F Sheets.
5. Locations of Non-structural Controls – F Sheets.
6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Plan and Profile sheets.
8. Locations where Storm Water is Discharged – Plan and Profile sheets.

110-12L

POLLUTION PREVENTION PLAN

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
F. Runoff from this work will flow into Indian Creek.

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
B. Preserve vegetation in areas not needed for construction.
C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities and Estimate Reference Information located in the C sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities and Estimate Reference Information located in the C sheets.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities and Estimate Reference Information located in the C sheets, as well as all other item specific Tabulations.
The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar

Xrefs: XV-O-AERIAL; XV-O-ROW; xgt-1-gh01; XC-1-DSGN; XC-1-SHAD; XV-O-BASE; XC-1-SURF; XV-O-SURF; XC-1-EROS

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CITY OF NEVADA
NEVADA, IA

EROSION CONTROL
POLLUTION PREVENTION PLAN

SHEET NO.
F.01

POLLUTION PREVENTION PLAN

days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.

B. Amended PPP - Base PPP amended during construcion. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.

C. Fieldbook Entries – This contains the inspector’s daily diary and bid item postings.

D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).

E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____
Signature

_____
Printed or Typed Name

_____
Signature

_____
Printed or Typed Name

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NEVADA, IA

EROSION CONTROL
POLLUTION PREVENTION PLAN

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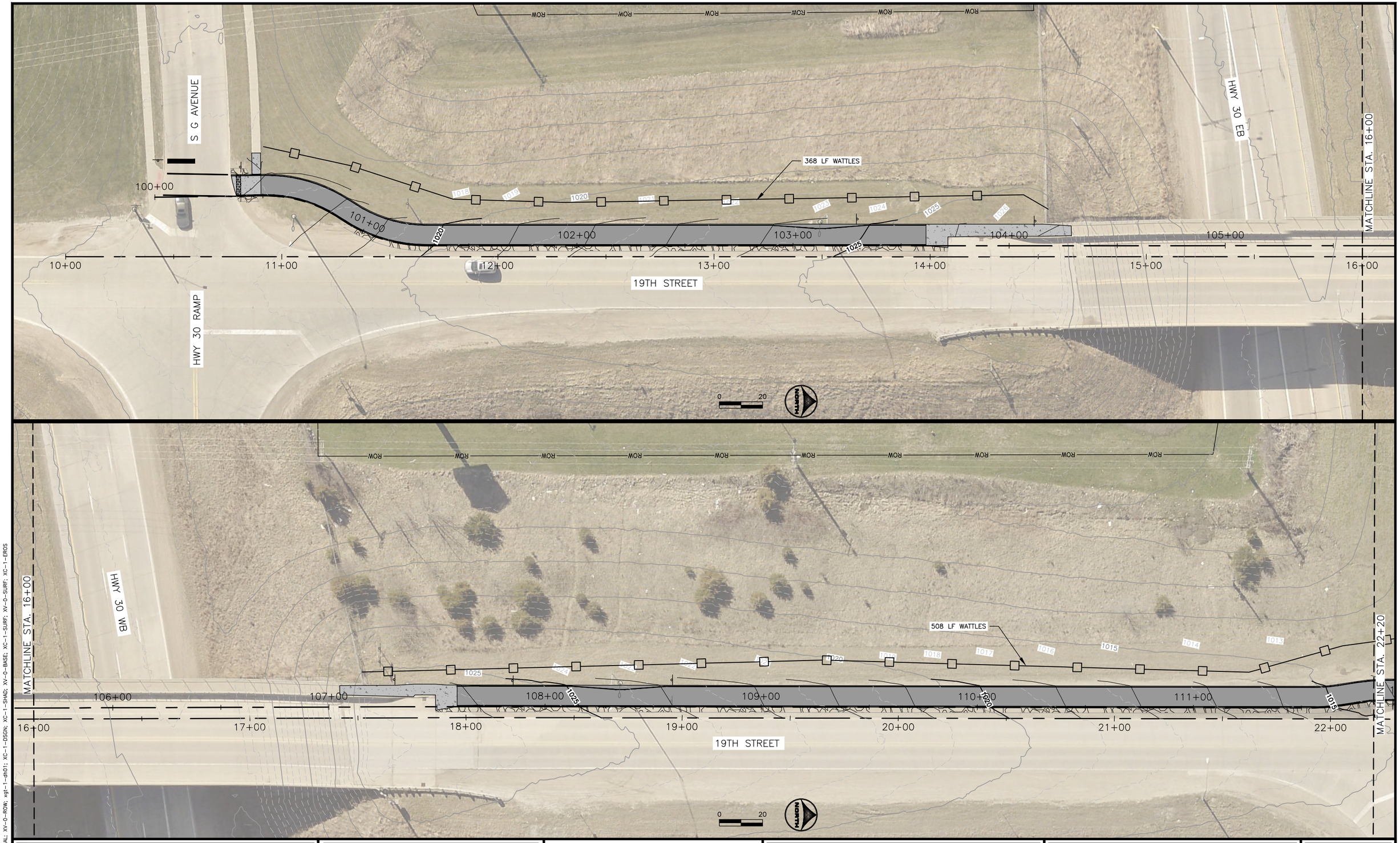

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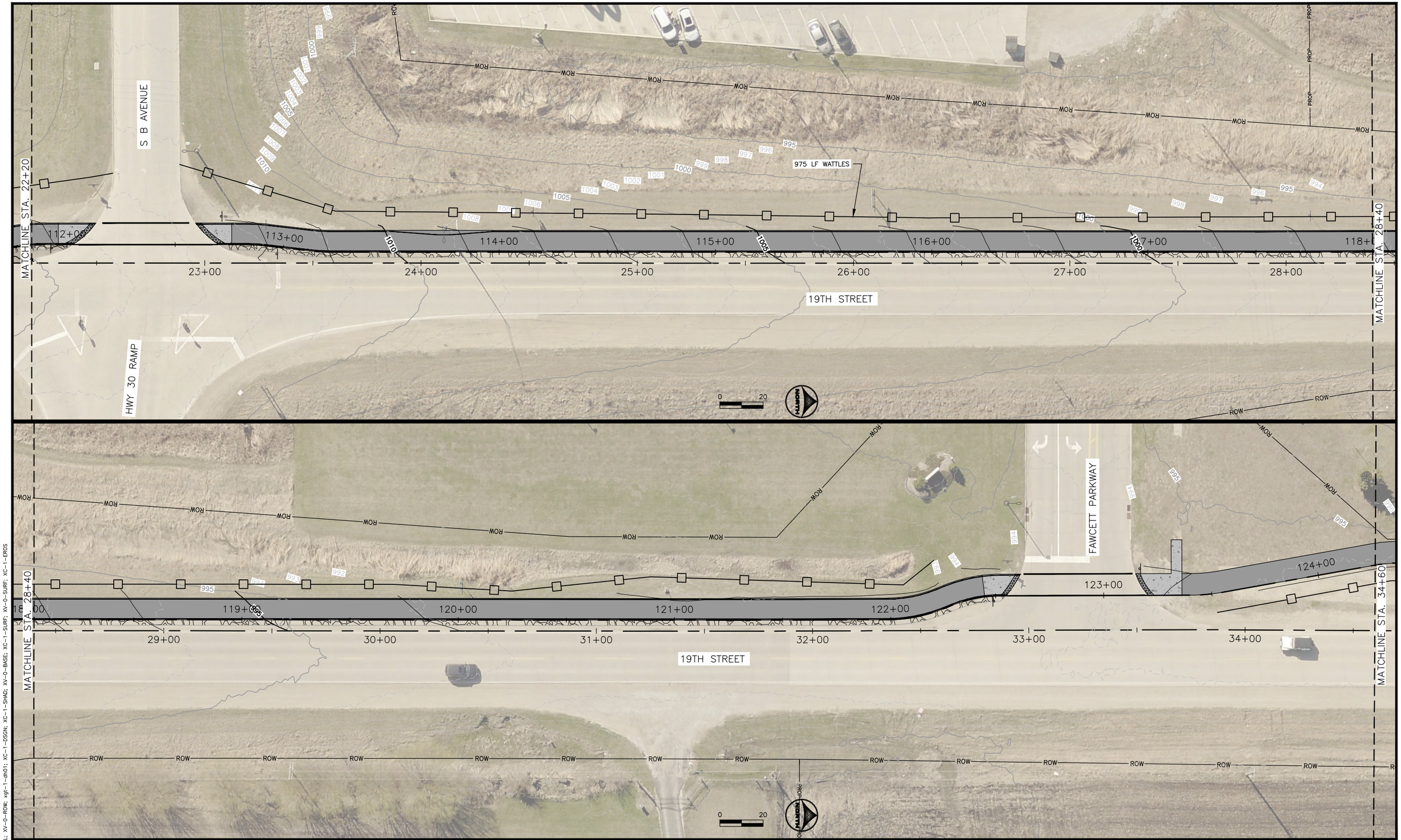
SHEET NO.
F.03

Xrefs: XV-0-AERIAL; XV-0-ROW; xg1-1-dh01; XC-1-DSGN; XC-1-SHAD; XV-0-BASE; XC-1-SURF; XV-0-SURF; XC-1-EROS



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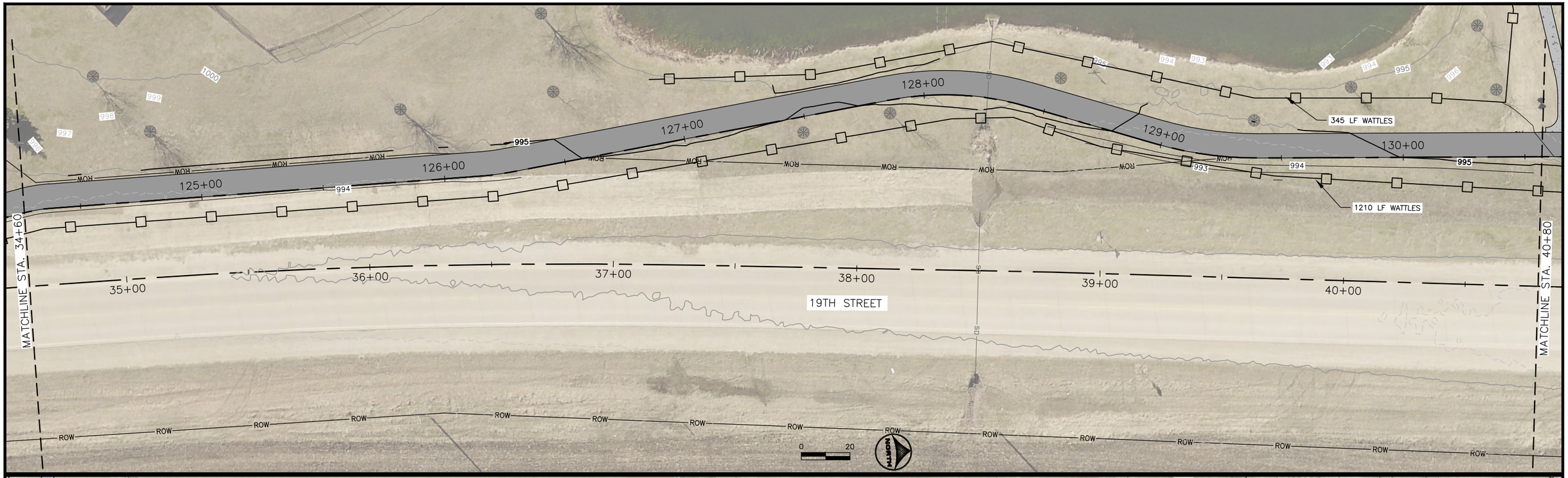
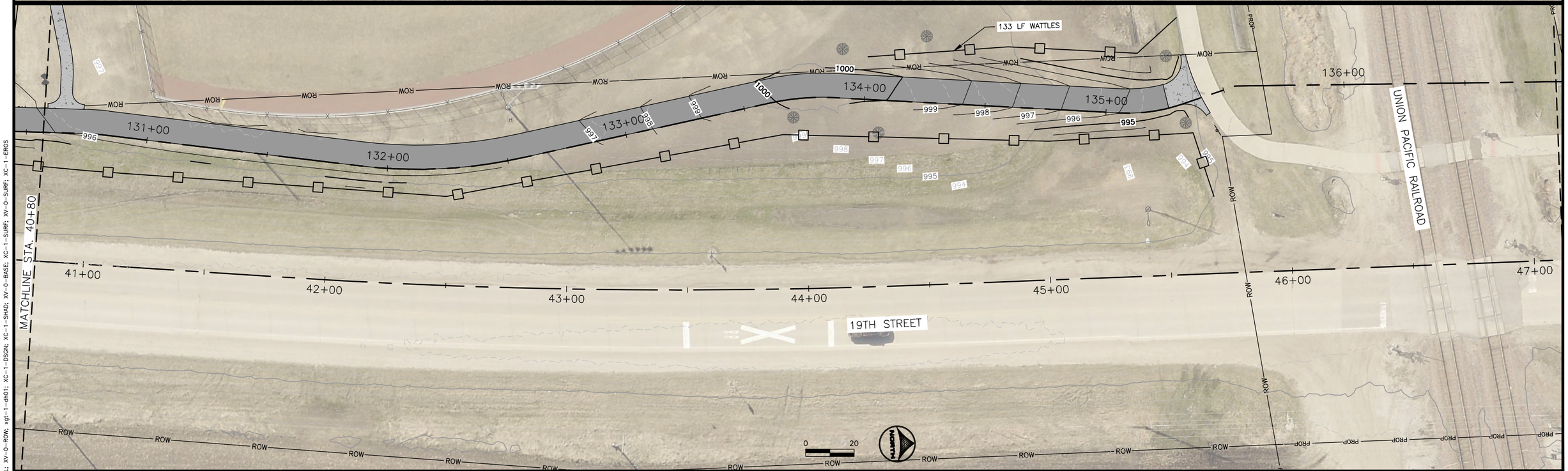
EROSION CONTROL

SHEET NO.
F.04

Xrefs: XV-0-AERIAL; XV-0-ROW; xg1-1-dh01; XC-1-DSGN; XC-1-SHAD; XV-0-BASE; XC-1-SURF; XV-0-SURF; XC-1-EROS





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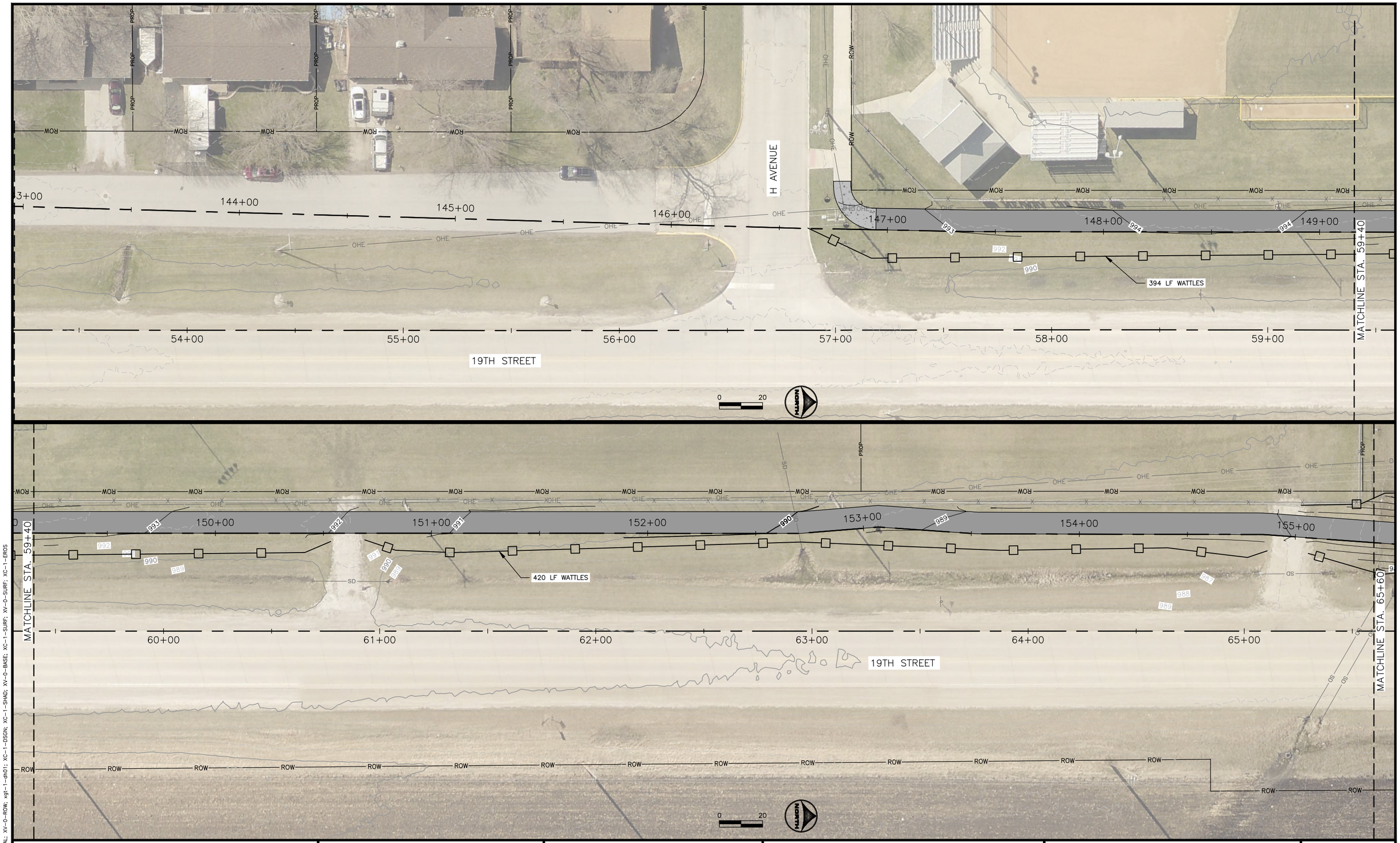
Xrefs: XV-0-AERIAL; XV-0-ROW; xg1-1-dh01; XC-1-DSGN; XC-1-SHAD; XV-0-BASE; XC-1-SURF; XV-0-SURF; XC-1-EROS



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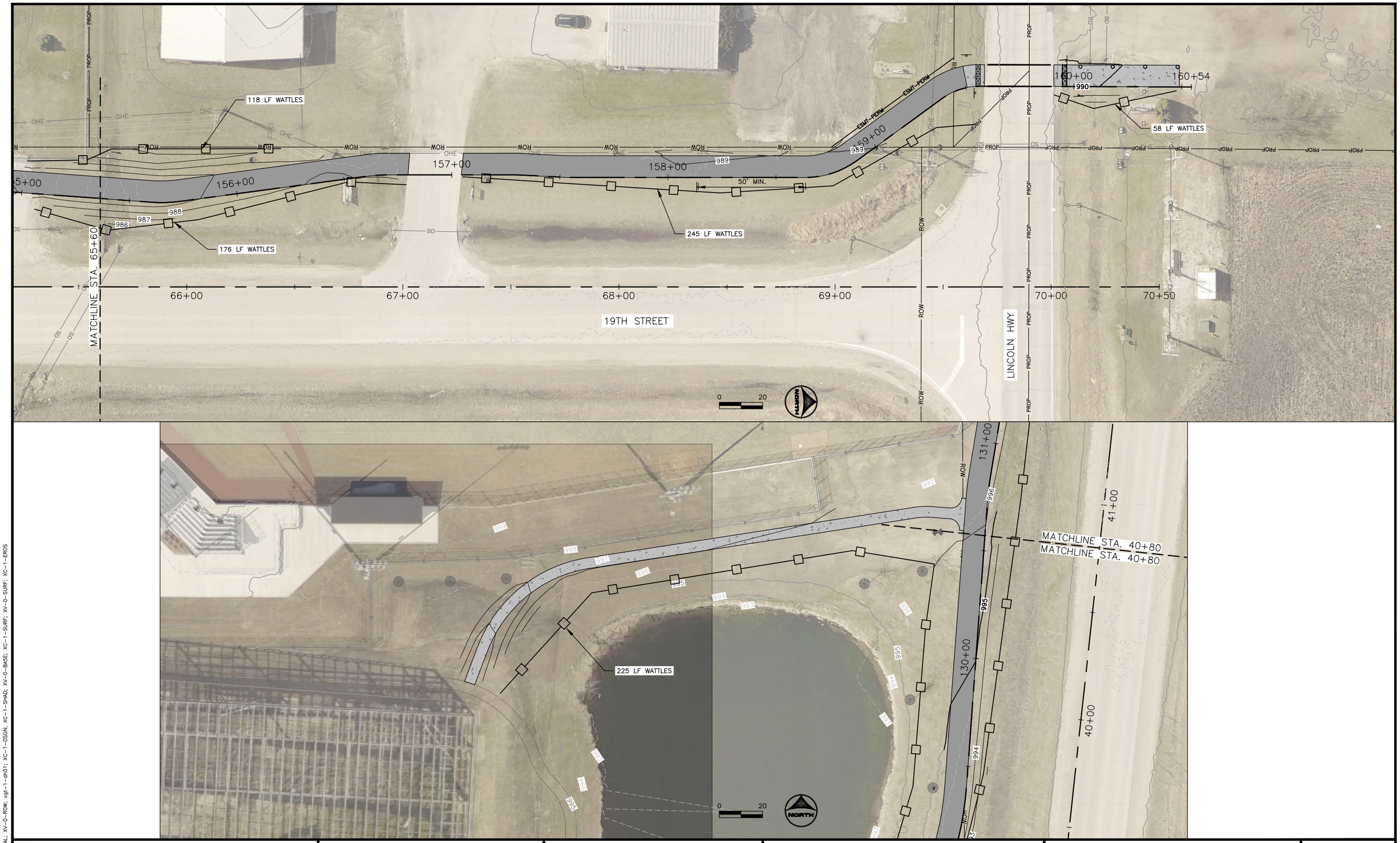

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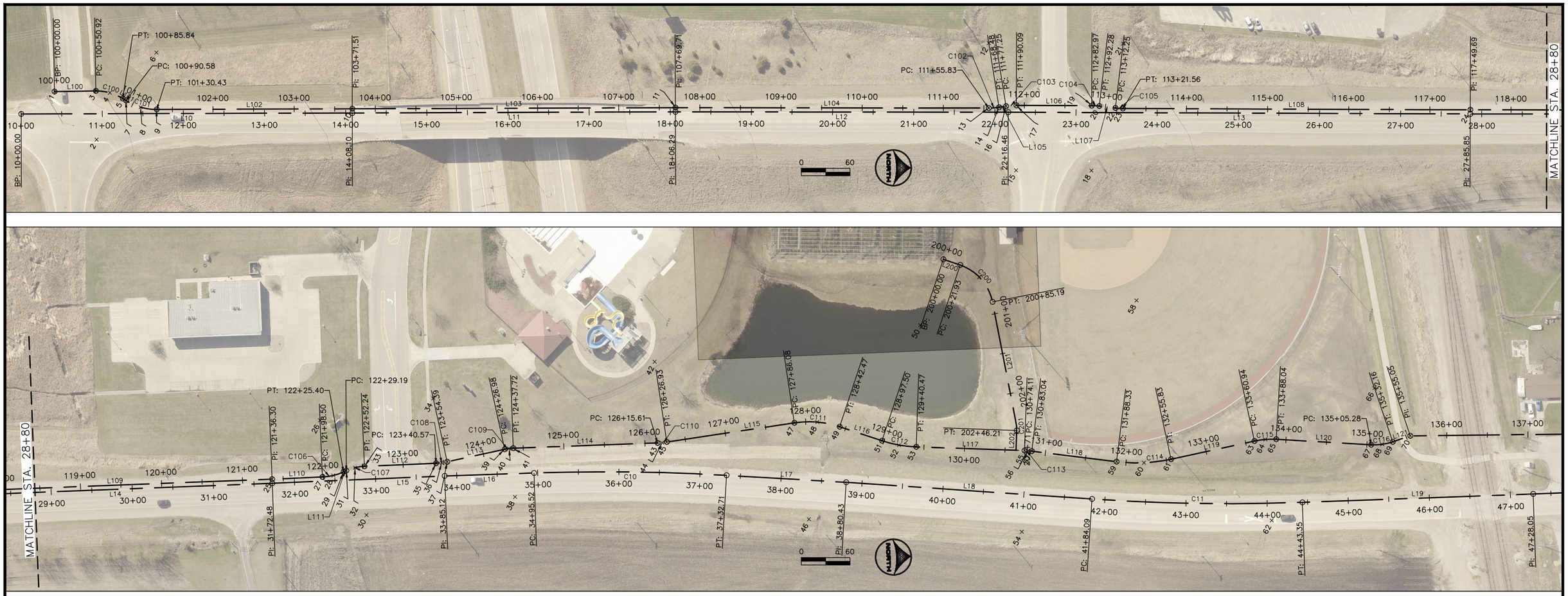

TRAIL ALIGNMENT DATA TABLE

NUMBER	LENGTH	LINE/CHORD DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	RADIUS
L100	50.92	N0° 53' 27.77"W	100+00.00	100+50.92	3465391.58	4938902.52	
C100	34.922	N15° 46' 58.30"E	100+50.92	100+85.84	3465442.49	4938901.72	60.00
L101	4.74	N32° 27' 24.37"E	100+85.84	100+90.58	3465475.62	4938911.09	
C101	39.850	N16° 08' 52.39"E	100+90.58	101+30.43	3465479.62	4938913.63	70.00
L102	241.08	N0° 09' 39.60"W	101+30.43	103+71.51	3465517.38	4938924.57	
L103	398.20	N0° 11' 33.80"W	103+71.51	107+69.71	3465758.46	4938923.89	
L104	386.12	N0° 05' 10.06"E	107+69.71	111+55.83	3466156.66	4938922.55	
C102	12.650	N4° 26' 38.21"W	111+55.83	111+68.48	3466542.79	4938923.13	80.00
L105	8.76	N8° 58' 26.49"W	111+68.48	111+77.25	3466555.39	4938922.15	
C103	12.846	N4° 22' 26.64"W	111+77.25	111+90.09	3466564.04	4938920.78	80.00
L106	92.88	N0° 13' 33.22"E	111+90.09	112+82.97	3466576.84	4938919.81	
C104	9.309	N3° 33' 33.82"E	112+82.97	112+92.28	3466669.72	4938920.17	80.00
L107	19.97	N6° 53' 34.42"E	112+92.28	113+12.25	3466679.00	4938920.75	
C105	9.309	N3° 33' 33.82"E	113+12.25	113+21.56	3466698.82	4938923.15	80.00
L108	428.13	N0° 13' 33.22"E	113+21.56	117+49.69	3466708.11	4938923.72	
L109	386.61	N0° 03' 26.34"E	117+49.69	121+36.30	3467136.24	4938925.41	
L110	62.20	N0° 10' 03.92"W	121+36.30	121+98.50	3467522.85	4938925.80	
C106	26.895	N11° 10' 28.60"W	121+98.50	122+25.40	3467585.05	4938925.62	70.00
L111	3.79	N22° 10' 53.28"W	122+25.40	122+29.19	3467611.27	4938920.44	
C107	23.053	N11° 10' 28.60"W	122+29.19	122+52.24	3467614.79	4938919.00	60.00

TRAIL ALIGNMENT DATA TABLE

NUMBER	LENGTH	LINE/CHORD DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	RADIUS
L112	88.33	N0° 10' 03.92"W	122+52.24	123+40.57	3467637.26	4938914.56	
C108	13.825	N5° 07' 06.29"W	123+40.57	123+54.39	3467725.59	4938914.30	80.00
L113	72.59	N10° 04' 08.65"W	123+54.39	124+26.98	3467739.34	4938913.07	
C109	10.741	N4° 56' 25.59"W	124+26.98	124+37.72	3467810.81	4938900.38	60.00
L114	177.89	N0° 11' 17.47"E	124+37.72	126+15.61	3467821.50	4938899.46	
C110	11.318	N3° 03' 15.54"W	126+15.61	126+26.93	3467999.39	4938900.04	100.00
L115	159.15	N6° 17' 48.54"W	126+26.93	127+86.08	3468010.69	4938899.44	
C111	56.390	N7° 09' 54.98"E	127+86.08	128+42.47	3468168.87	4938881.98	120.00
L116	55.03	N20° 37' 38.50"E	128+42.47	128+97.50	3468224.31	4938888.95	
C112	42.972	N12° 25' 13.37"E	128+97.50	129+40.47	3468275.81	4938908.34	150.00
L117	133.64	N4° 12' 48.24"E	129+40.47	130+74.11	3468317.63	4938917.55	
C113	8.926	N6° 46' 13.94"E	130+74.11	130+83.04	3468450.91	4938927.37	100.00
L118	105.29	N9° 19' 39.64"E	130+83.04	131+88.33	3468459.77	4938928.42	
C114	67.495	N0° 20' 25.10"W	131+88.33	132+55.83	3468563.67	4938945.49	200.00
L119	105.11	N10° 00' 29.85"W	132+55.83	133+60.94	3468630.85	4938945.09	
C115	27.104	N2° 14' 36.97"W	133+60.94	133+88.04	3468734.36	4938926.82	100.00
L120	117.24	N5° 31' 15.91"E	133+88.04	135+05.28	3468761.36	4938925.76	
C116	26.881	N5° 28' 47.70"W	135+05.28	135+32.16	3468878.06	4938937.04	70.00
L121	22.88	N16° 28' 51.32"W	135+32.16	135+55.05	3468904.65	4938934.49	
L122	1105.77	N1° 40' 02.91"E	135+55.05	146+60.82	3468926.60	4938928.00	

TRAIL ALIGNMENT DATA TABLE

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L123	78.13	N1° 09' 02.81"E	146+60.82	147+38.95	3470031.90	4938960.17	
L129	35.84	N4° 30' 16.46"W	152+70.98	153+06.82	3470642.04	4938963.10	
L130	45.86	N4° 02' 52.28"E	153+06.82	153+52.68	3470677.77	4938960.28	
L132	87.78	N7° 32' 19.01"W	155+73.90	156+61.68	3470944.50	4938969.33	
C117	7.998	N3° 43' 11.32"W	156+61.68	156+69.68	3471031.52	4938957.82	60.00
L133	60.30	N0° 05' 56.38"E	156+69.68	157+29.99	3471039.49	4938957.30	
L134	23.05	N3° 04' 08.88"E	157+29.99	157+53.04	3471099.80	4938957.40	
L135	110.64	N0° 06' 43.82"E	157+53.04	158+63.68	3471122.82	4938958.64	
C118	25.198	N17° 56' 03.19"W	158+63.68	158+88.87	3471233.46	4938958.85	40.00
L136	48.84	N35° 58' 50.19"W	158+88.87	159+37.71	3471257.03	4938951.22	
C119	18.990	N17° 50' 46.75"W	159+37.71	159+56.70	3471296.55	4938922.53	30.00
L137	97.76	N0° 17' 16.69"E	159+56.70	160+54.46	3471314.33	4938916.81	

FIELD HOUSE WALK ALIGNMENT DATA TABLE

NUMBER	LENGTH	LINE/CHORD DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	RADIUS
L200	21.93	N20° 48' 20.72"E	200+00.00	200+21.93	3468360.16	4938688.25	
C200	63.259	N51° 00' 35.69"E	200+21.93	200+85.19	3468380.66	4938696.04	60.00
L201	151.95	N81° 12' 50.65"E	200+85.19	202+37.14	3468418.64	4938742.96	
C201	9.075	N87° 42' 49.45"E	202+37.14	202+46.21	3468441.85	4938893.12	40.00
L202	24.49	S85° 47' 11.76"E	202+46.21	202+70.70	3468442.21	4938902.17	

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REF. TIES AND BENCHMARKS AND ALIGN. DATA

ALIGNMENT INFORMATION

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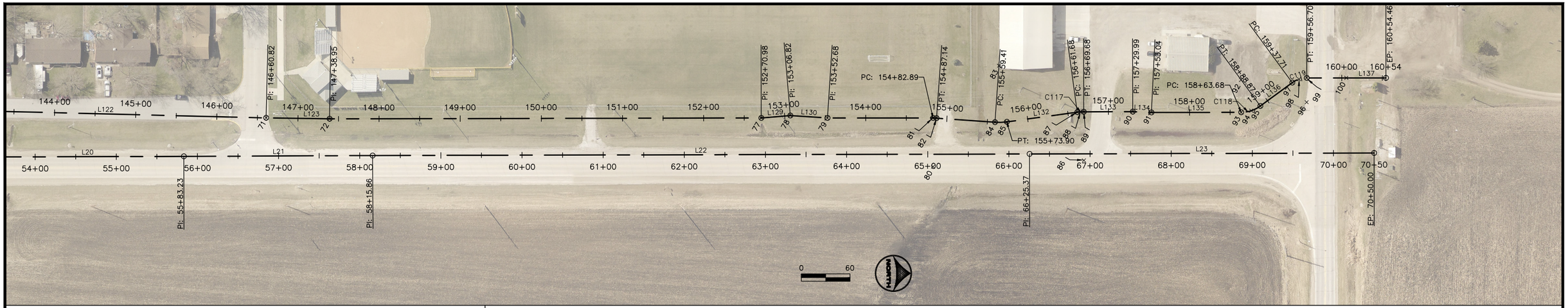
G.01

Xrefs: XV-D-AERIAL; xgt-1-dh01



EDGE OF PAVEMENT ALIGNMENT DATA TABLE

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L10	408.10	N0° 09' 39.60"W	10+00.00	14+08.10	3465350.38	4938930.14	
L11	398.19	N0° 11' 33.80"W	14+08.10	18+06.29	3465758.48	4938928.99	
L12	410.17	N0° 05' 10.06"E	18+06.29	22+16.46	3466156.67	4938927.65	
L13	569.39	N0° 13' 33.22"E	22+16.46	27+85.85	3466566.84	4938928.27	
L14	386.63	N0° 03' 26.34"E	27+85.85	31+72.48	3467136.23	4938930.51	
L15	212.64	N0° 10' 03.92"W	31+72.48	33+85.12	3467522.86	4938930.90	
L16	110.40	N0° 22' 01.41"E	33+85.12	34+95.52	3467735.49	4938930.28	
C10	237.189	N2° 58' 49.80"E	34+95.52	37+32.71	3467845.89	4938930.98	2600.00
L17	147.72	N5° 35' 38.19"E	37+32.71	38+80.43	3468082.68	4938943.31	
L18	303.65	N6° 08' 47.44"E	38+80.43	41+84.09	3468229.70	4938957.71	
C11	259.265	N3° 10' 31.99"E	41+84.09	44+43.35	3468531.61	4938990.22	2500.00
L19	284.70	N0° 12' 16.54"E	44+43.35	47+28.05	3468790.36	4939004.58	
L20	855.18	N0° 06' 55.57"E	47+28.05	55+83.23	3469075.06	4939005.60	
L21	232.63	N0° 01' 41.36"W	55+83.23	58+15.86	3469930.23	4939007.32	
L22	809.50	N0° 07' 53.24"E	58+15.86	66+25.37	3470162.86	4939007.20	
L23	424.63	N0° 05' 48.32"E	66+25.37	70+50.00	3470972.37	4939009.06	

TRAIL ALIGNMENT IN REFERENCE TO EDGE OF PVMT			
Point Number	Description	Station	Offset
1	BP	10+41.27	−27.50'L
2	R	10+92.95	31.84'R
3	PC	10+92.18	−28.15'L
4	MP	11+09.43	−25.85'L
5	PT	11+25.29	−18.69'L
6	R	11+67.01	−75.10'L
7	PC	11+29.28	−16.14'L
8	MP	11+47.36	−7.92'L
9	PT	11+67.01	−5.10'L
10	PI	14+08.10	−5.10'L
11	PI		
12	R	21+92.40	−85.10'L
13	PC	21+92.40	−5.10'L
14	PT	22+05.00	−6.10'L
15	R	22+26.42	71.50'R
16	PC	22+13.65	−7.48'L
17	PT	22+26.42	−8.50'L
18	R	23+19.30	71.50'R
19	PC	23+19.30	−8.50'L
20	PT	23+28.59	−7.96'L
21	R	23+57.71	−85.10'L
22	PC	23+48.42	−5.64'L
23	PT	23+57.71	−5.10'L
24	PI	27+85.86	−5.10'L
25	PI	31+72.47	−5.10'L
26	R	32+34.69	−75.10'L
27	PC	32+34.69	−5.10'L
28	MP	32+48.06	−6.39'L
29	PT	32+60.93	−10.20'L
30	R	32+86.94	44.00'R
31	PC	32+64.45	−11.63'L
32	MP	32+75.48	−14.90'L
33	PT	32+86.94	−16.00'L

TRAIL ALIGNMENT IN REFERENCE TO EDGE OF PVMT			
Point Number	Description	Station	Offset
34	R	33+75.26	−96.00'L
35	PC	33+75.26	−16.00'L
36	MP	33+82.17	−16.30'L
37	PT	33+88.86	−17.23'L
38	R	34+71.11	28.63'R
39	PC	34+60.24	−30.38'L
40	MP	34+65.56	−31.11'L
41	PT	34+70.93	−31.37'L
42	R	36+40.96	−136.20'L
43	PC	36+46.79	−36.38'L
44	MP	36+52.34	−36.90'L
45	PT	36+57.86	−37.74'L
46	R	38+37.24	47.99'R
47	PC	38+12.52	−69.44'L
48	MP	38+40.53	−71.97'L
49	PT	38+68.37	−67.90'L
50	R	39+58.50	−199.26'L
51	PC	39+20.99	−54.03'L
52	MP	39+42.11	−50.16'L
53	PT	39+63.56	−49.35'L
54	R	41+00.50	46.09'R
55	PC	40+97.12	−53.85'L
56	MP	41+01.59	−53.90'L
57	PT	41+06.05	−53.76'L
58	R	42+26.47	−247.28'L
59	PC	42+11.71	−47.76'L
60	MP	42+46.07	−48.13'L
61	PT	42+80.01	−53.70'L
62	R	44+05.13	21.15'R
63	PC	43+85.29	−76.91'L
64	MP	43+99.14	−78.67'L
65	PT	44+13.12	−78.54'L
66	R	45+37.30	−137.55'L

TRAIL ALIGNMENT IN REFERENCE TO EDGE OF PVMT			
Point Number	Description	Station	Offset
67	PC	45+30.81	−67.85'L
68	MP	45+44.23	−67.89'L
69	PT	45+57.40	−70.50'L
70	PI	45+79.32	−77.07'L
71	PI	56+84.92	−47.09'L
72	PI	57+63.03	−45.49'L
77	PI	62+94.94	−45.21'L
78	PI	63+30.66	−48.10'L
79	PI	63+76.41	−44.97'L
80	PI	65+06.49	15.33'R
81	PC	65+06.63	−44.67'L
82	PT	65+10.87	−44.51'L
83	R	65+88.06	−109.04'L
84	PC	65+82.95	−39.22'L
85	PT	65+97.41	−39.66'L
86	R	66+92.40	8.13'R
87	PC	66+84.43	−51.34'L
88	MP	66+88.41	−51.74'L
89	PT	66+92.41	−51.87'L
90	PI	67+52.71	−51.87'L
91	PI	67+75.73	−50.68'L
92	R	68+86.38	−90.65'L
93	PC	68+86.37	−50.65'L
94	MP	68+98.76	−52.61'L
95	PT	69+09.94	−58.32'L
96	R	69+67.07	−62.83'L
97	PC	69+49.41	−87.08'L
98	MP	69+57.83	−91.37'L
99	PT	69+67.17	−92.83'L
100	MP	70+16.05	−92.67'L

DRAWN BY: CJ JOB DATE: 2024
APPROVED: BM JOB NUMBER: 2402192
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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

REF. TIES AND BENCHMARKS AND ALIGN. DATA
ALIGNMENT INFORMATION

SHEET NO.
G.02

Xrefs: XY--O--AERIAL: xyl--1--dh01

Xrefs: XV-D-AERIAL; XV-D-ROW; xgt-1-dh01

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APPROVED:	BM	JOB NUMBER:	2402192
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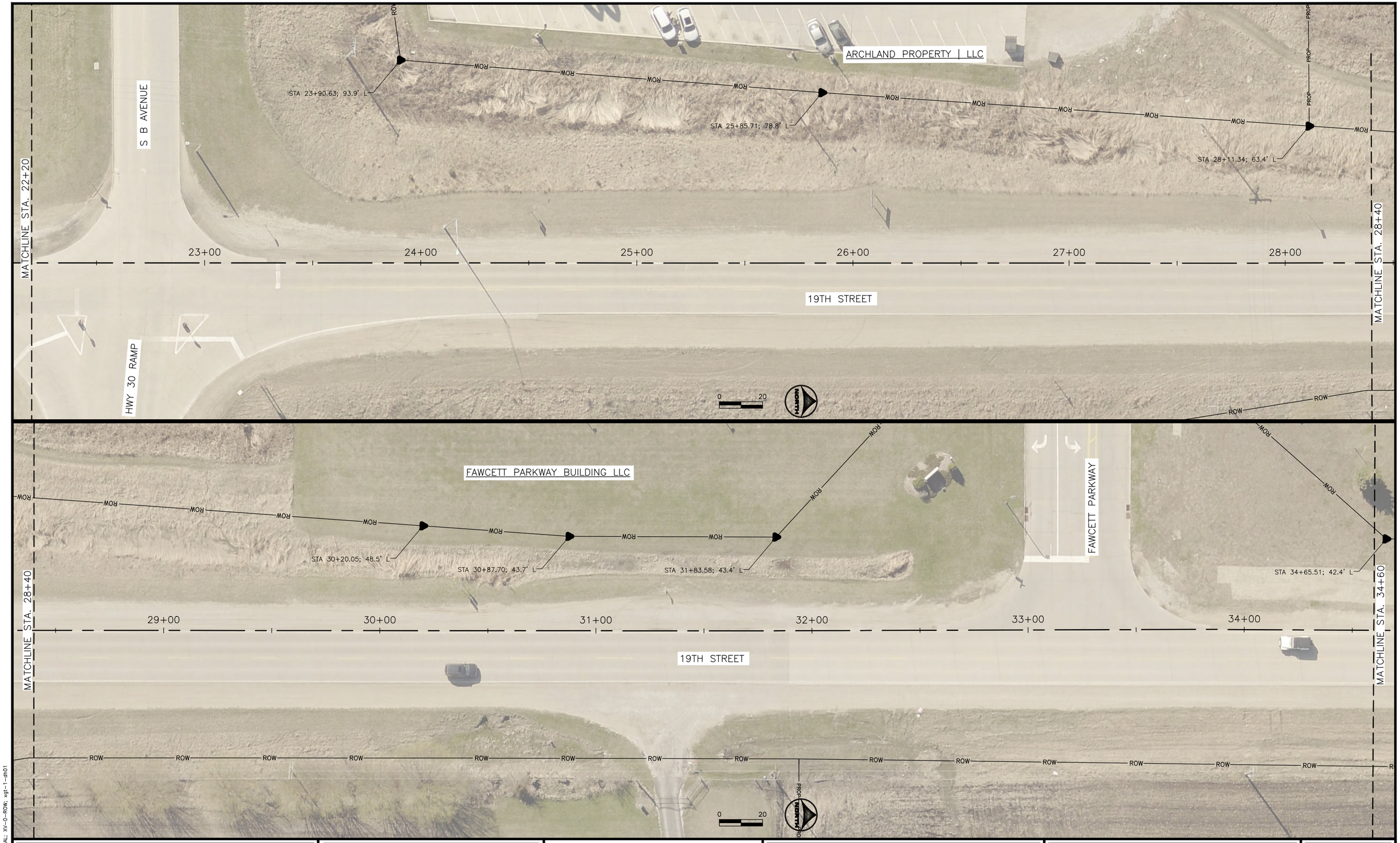
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

RIGHT OF WAY AND EASEMENTS
RIGHT OF WAY

SHEET NO.
H.01



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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

RIGHT OF WAY AND EASEMENTS
RIGHT OF WAY

SHEET NO.
H.02

Xrefs: XV-D-AERIAL; XV-D-ROW; xgl-1-dh01

CITY OF NEVADA

STA 36+24.69; 46.1' L

STA 38+81.92; 41.3' L

MATCHLINE STA. 34+60

35+00 36+00 37+00 38+00 39+00 40+00

19TH STREET

MATCHLINE STA. 40+80

0 20

NORTH

CITY OF NEVADA

STA 43+42.16; 87.4' L

STA 45+88.89; 91.0' L

STA 45+73.18; 56.5' L

UNION PACIFIC RAILROAD

MATCHLINE STA. 40+80

41+00 42+00 43+00 44+00 45+00 46+00 47+00

19TH STREET

0 20

NORTH

Xrefs: XV-D-AERIAL; XV-D-ROW; xgt-1-dh01

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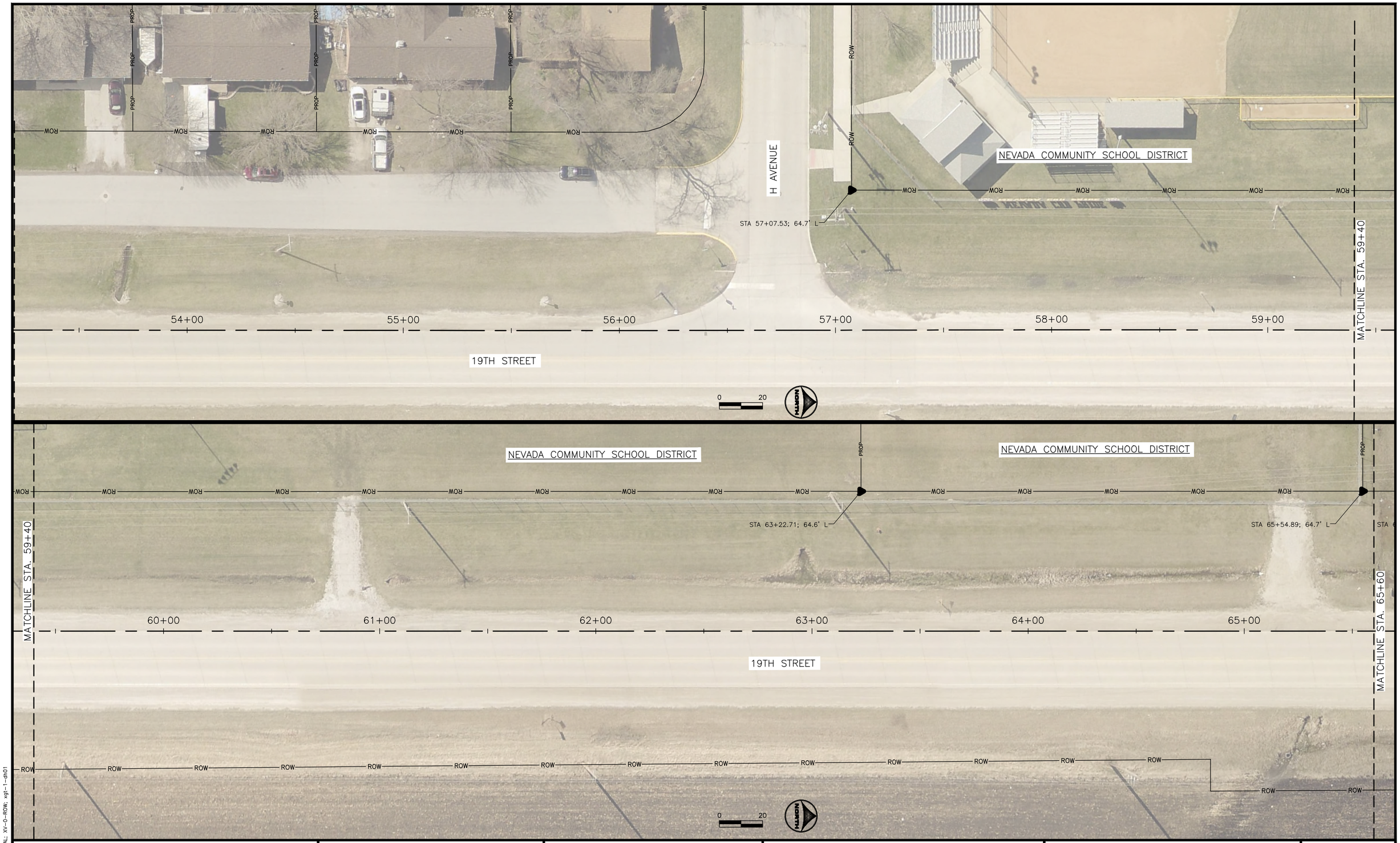
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

RIGHT OF WAY AND EASEMENTS

RIGHT OF WAY

SHEET NO.
H.03



Xrefs: XV-0-AERIAL; XV-0-ROW; xgl-1-dh01

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NO.	DATE	BY	REVISION DESCRIPTION

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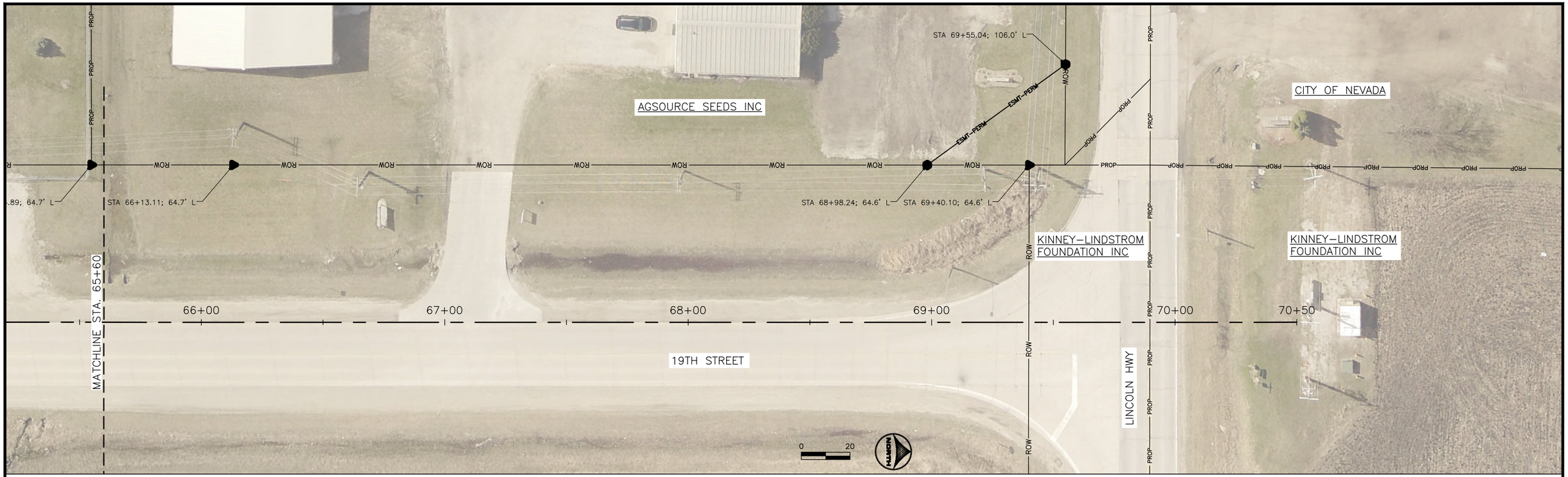
CITY OF NEVADA
NEVADA, IA

RIGHT OF WAY AND EASEMENTS
RIGHT OF WAY

SHEET NO.
H.04



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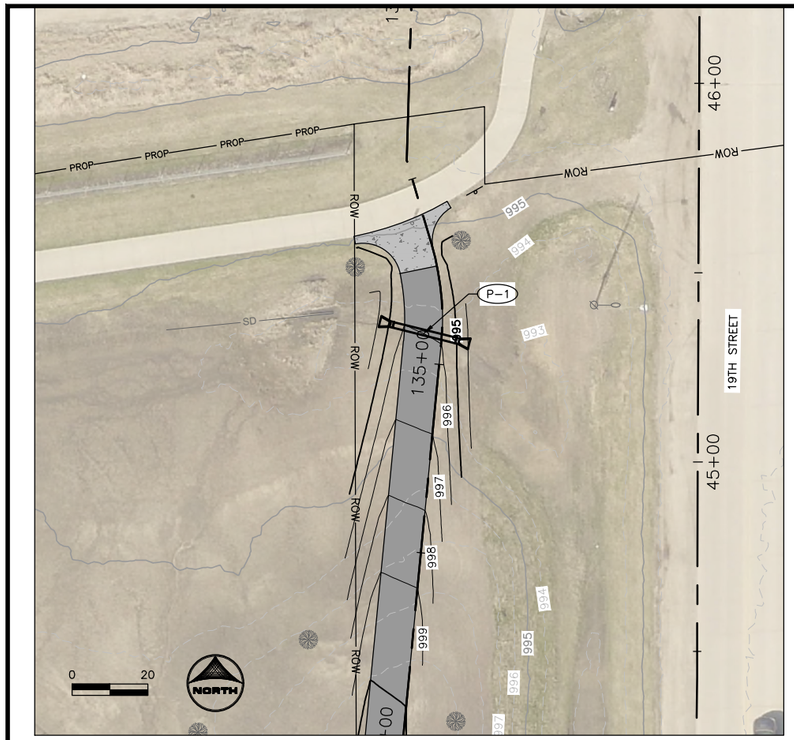
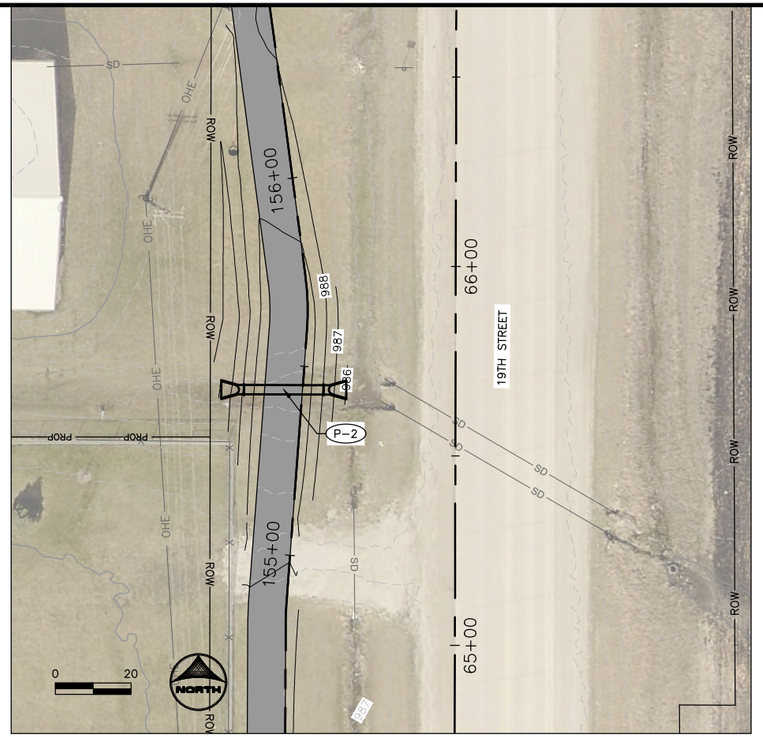
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

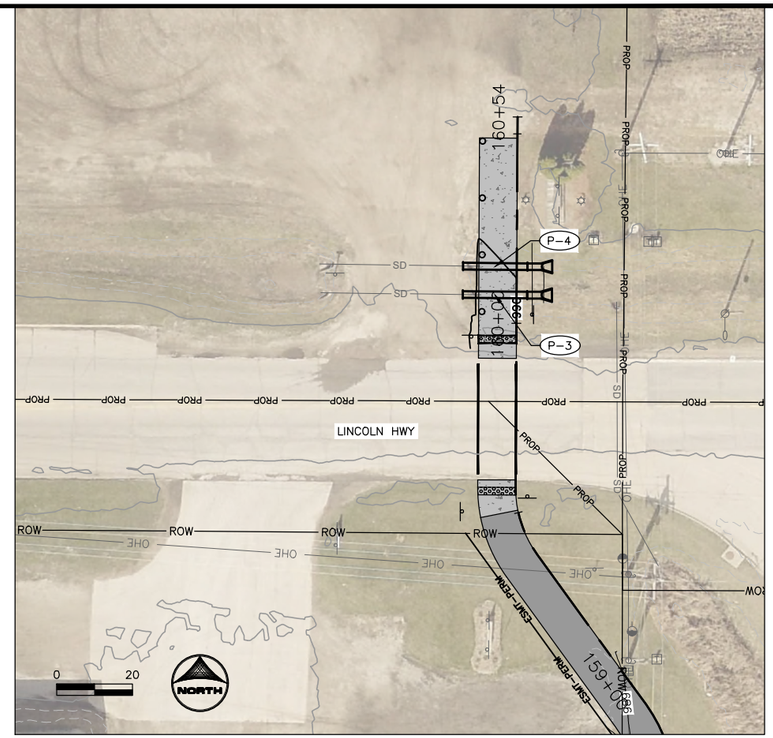
RIGHT OF WAY AND EASEMENTS
RIGHT OF WAY

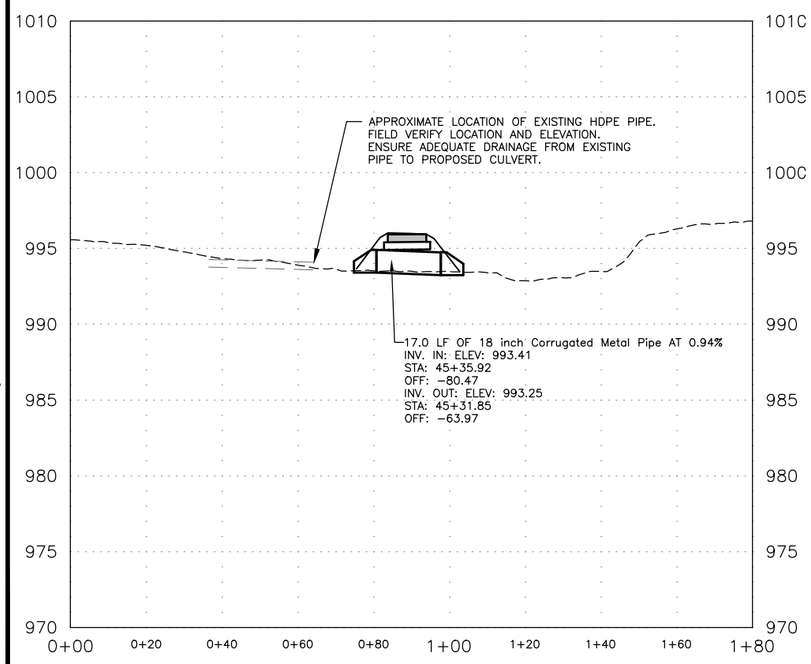
SHEET NO.
H.05

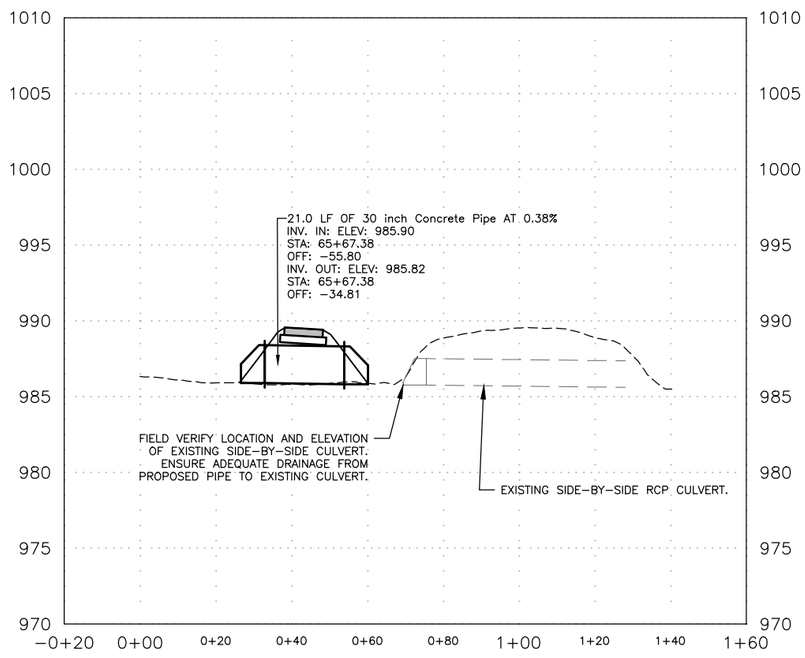
Xrefs: XV-D-AERIAL; XV-D-ROW; xg1-1-dh01

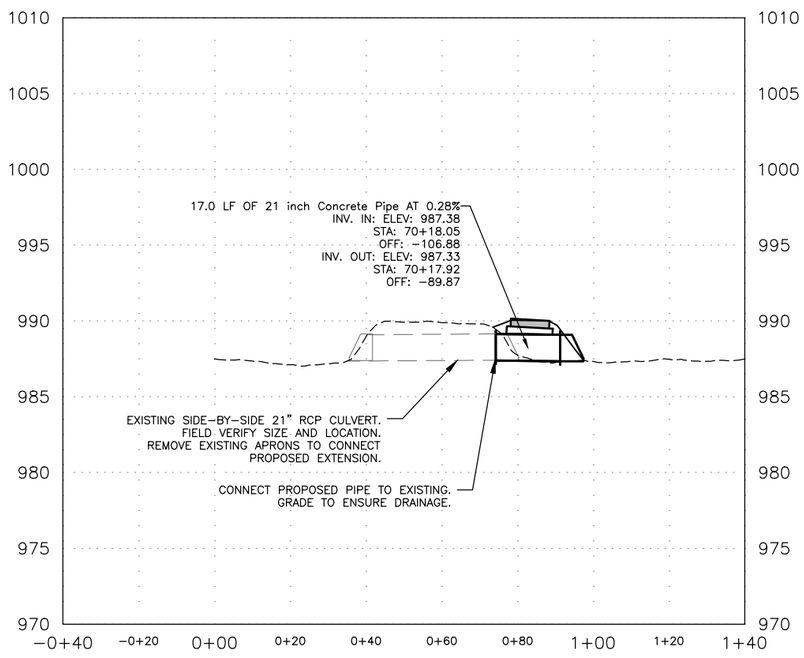












Xrefs: XV-0-AERIAL; XV-0-BASE; XC-1-SURF; XC-1-SHAD; XC-1-DSGN; XC-1-STRM; vgt-1-dh01; XV-0-ROW; XV-0-SURF

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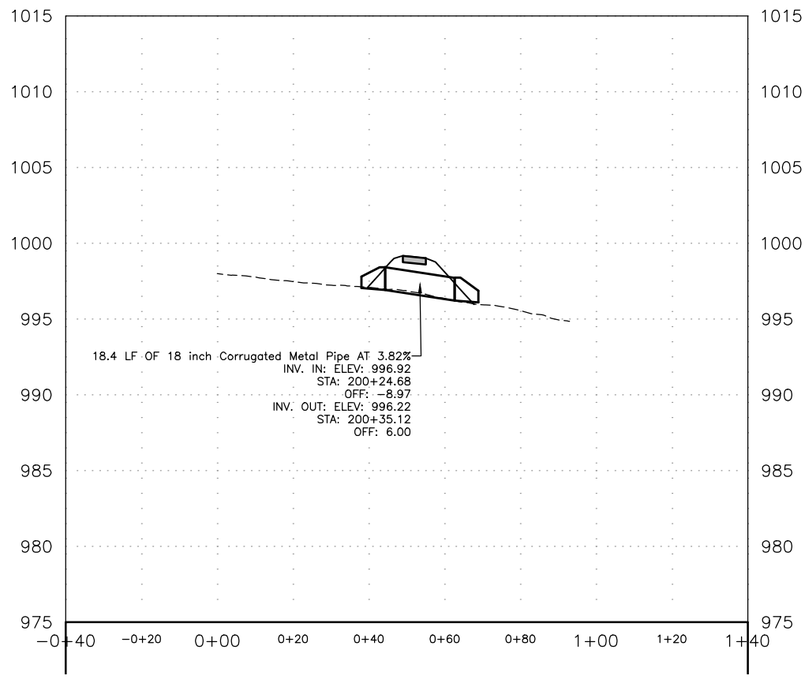
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

STORM DRAINAGE PLAN AND PROFILE
CULVERT PLAN AND PROFILE

SHEET NO.
M.01



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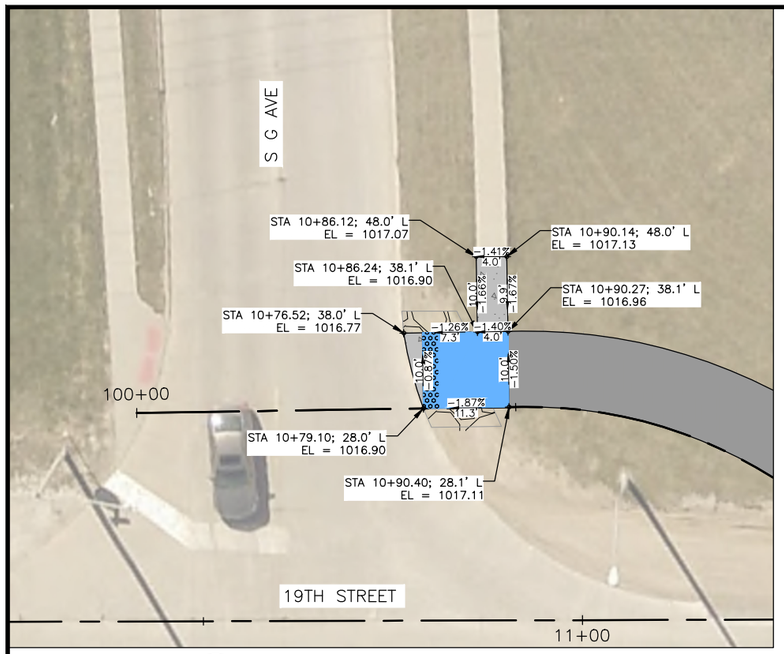
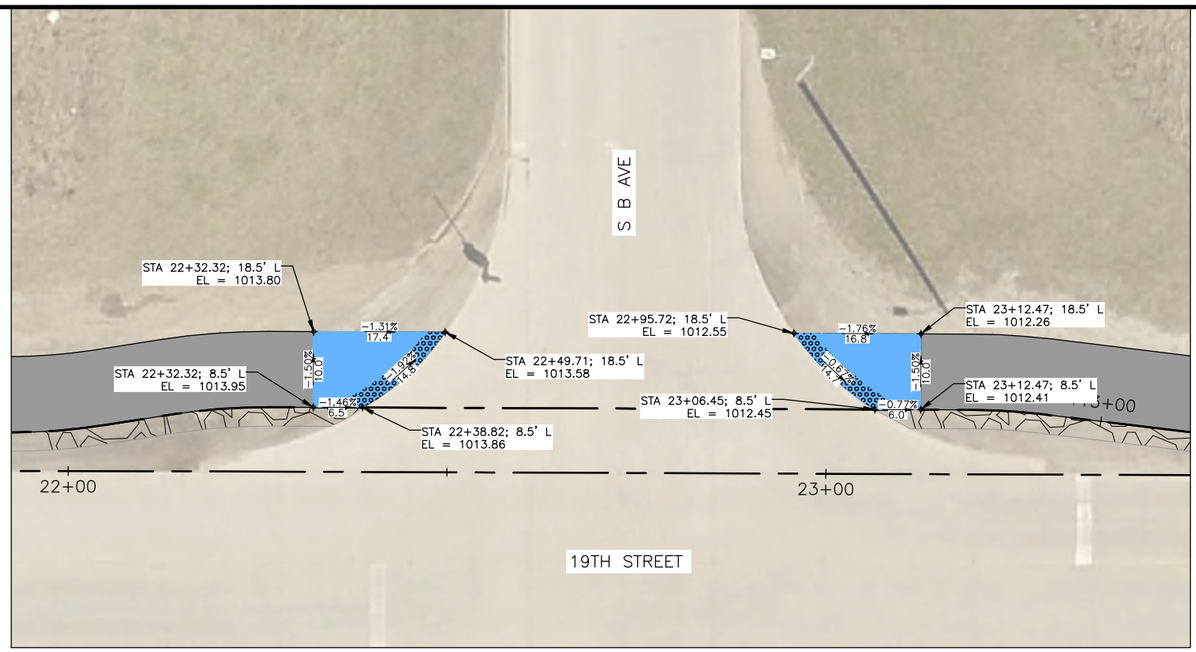
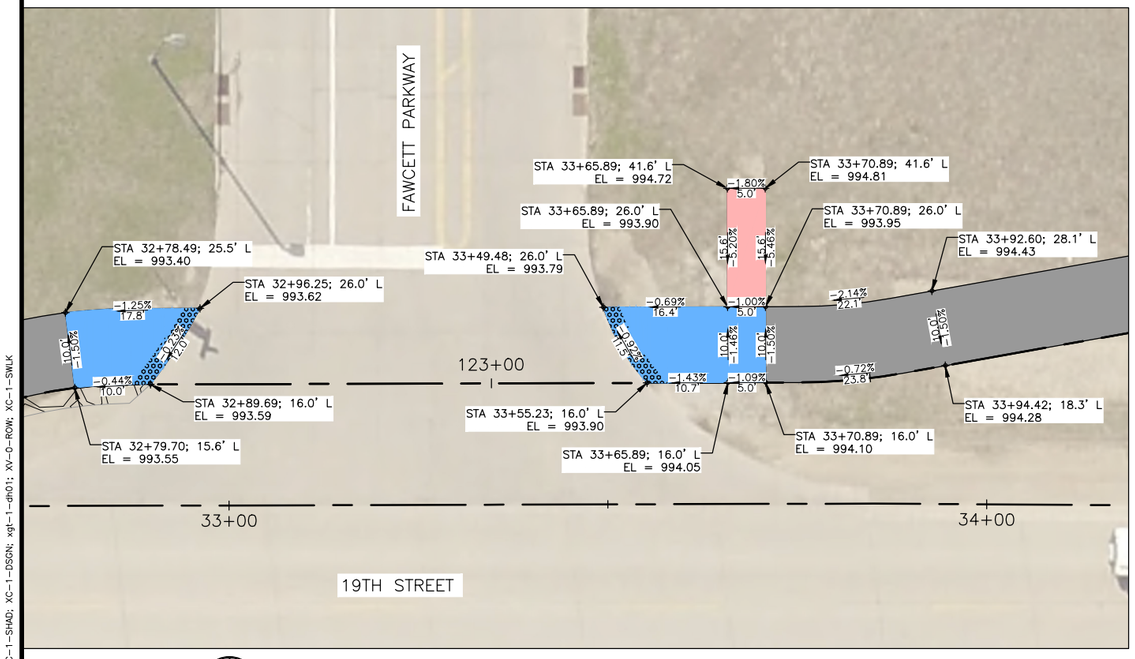
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

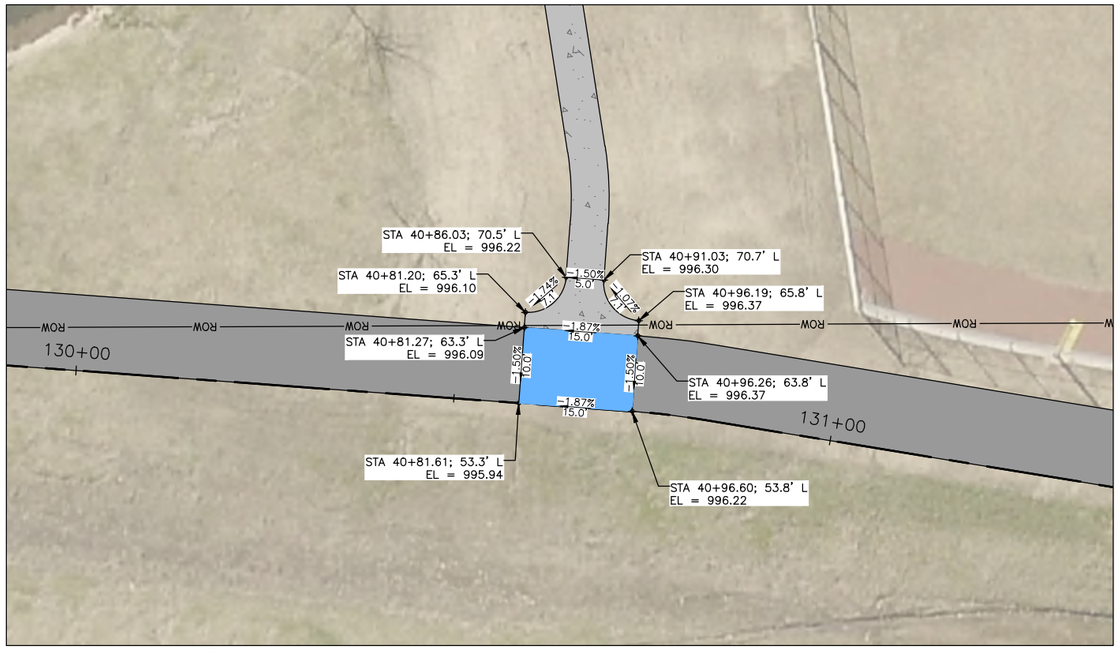
STORM DRAINAGE PLAN AND PROFILE
CULVERT PLAN AND PROFILE

SHEET NO.
M.02









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19TH STREET TRAIL
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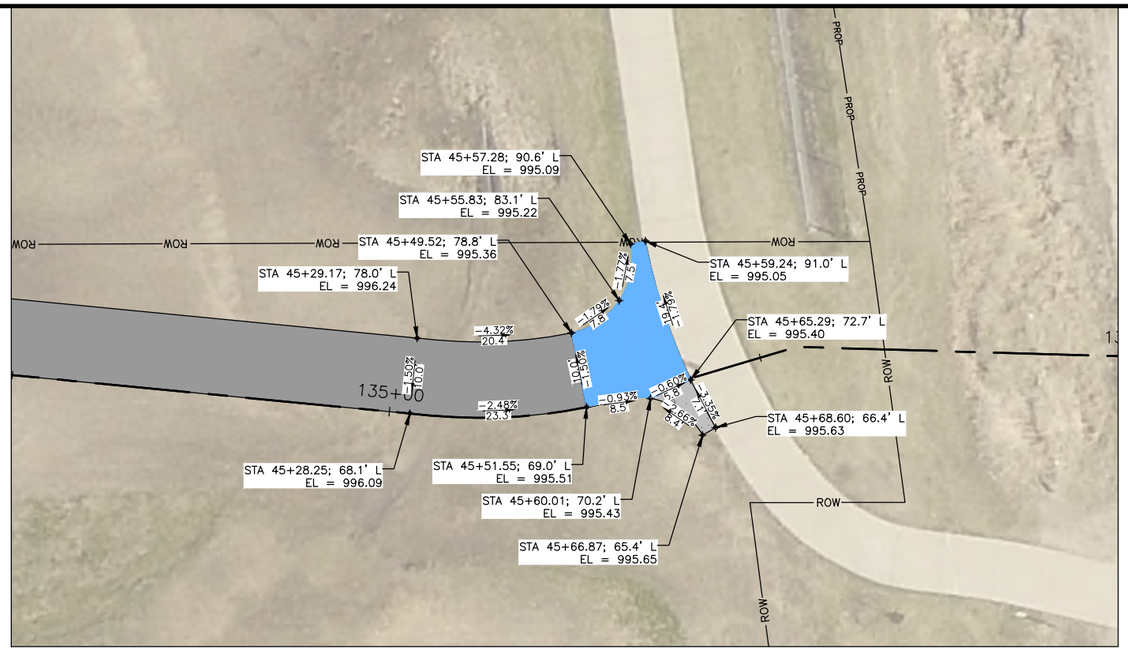
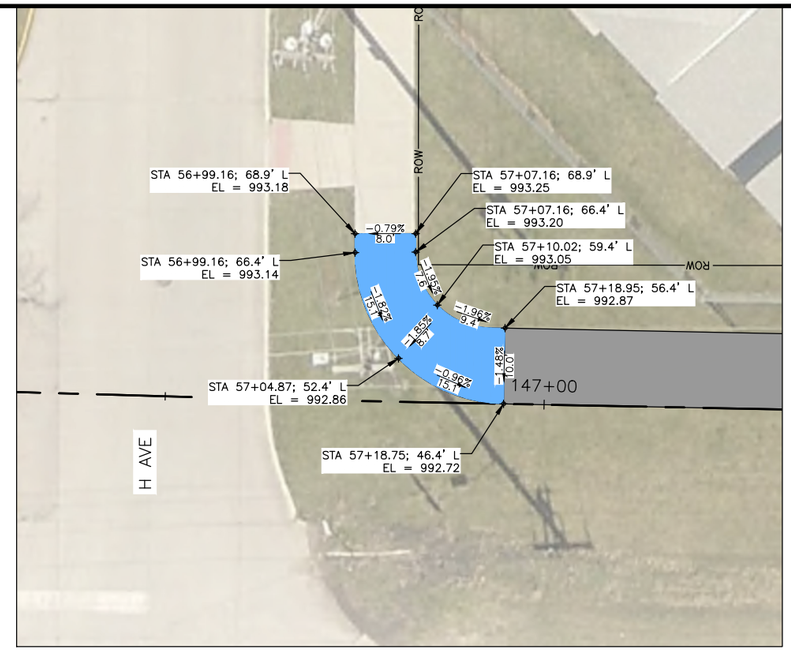
NEVADA, IA

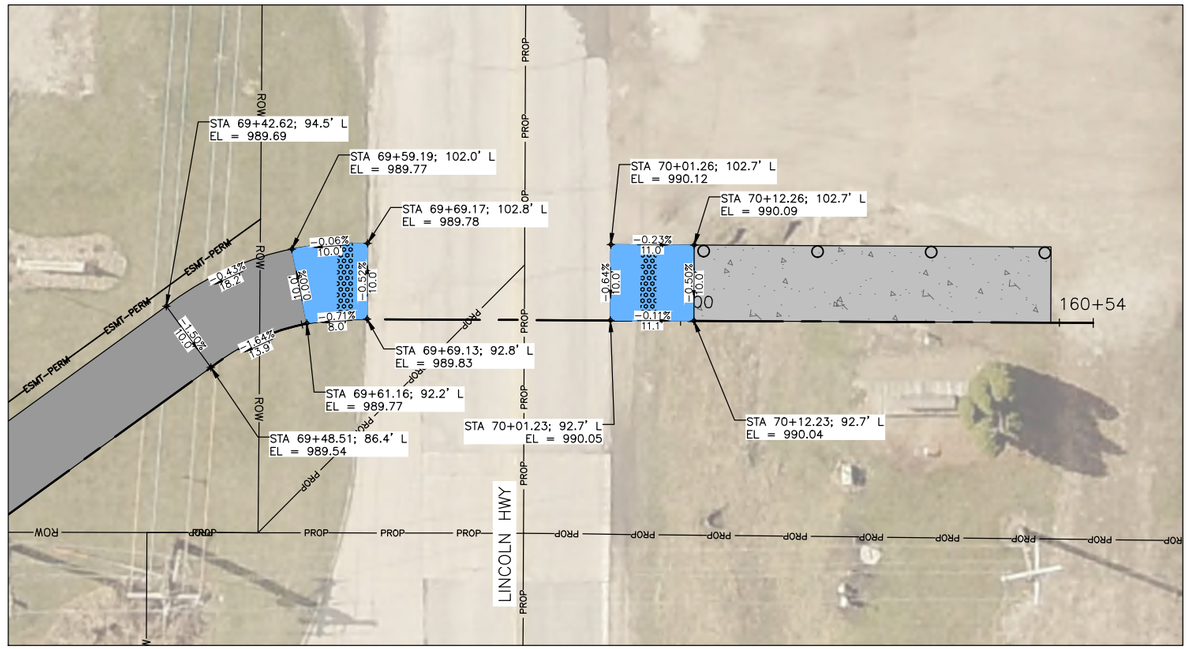
SIDEWALK COMPLIANCE
SIDEWALK COMPLIANCE

SHEET NO.
S.01

Xrefs: XV-0-AERIAL; XV-0-BASE; XC-1-SHAD; XC-1-DSGN; xgl-1-dh01; XV-0-ROW; XC-1-SWLK







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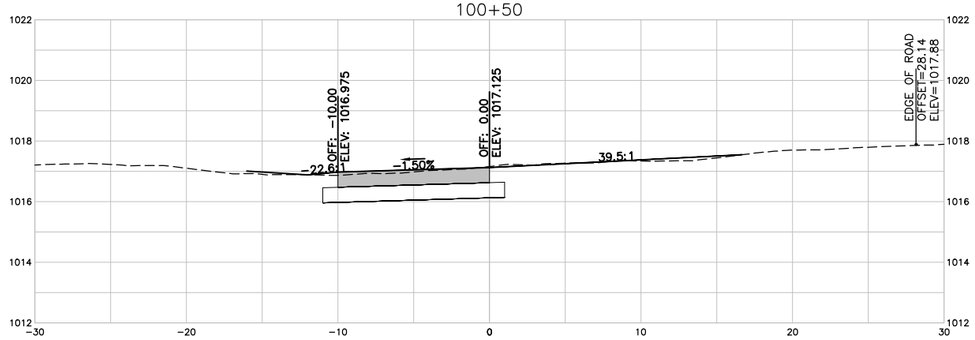
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

SIDEWALK COMPLIANCE
SIDEWALK COMPLIANCE

SHEET NO.
S.02

Xrefs: XV-0-AERIAL; XV-0-BASE; XC-1-SHAD; XC-1-DSGN; xgt-1-dh01; XV-0-ROW; XC-1-SWLK

100+50



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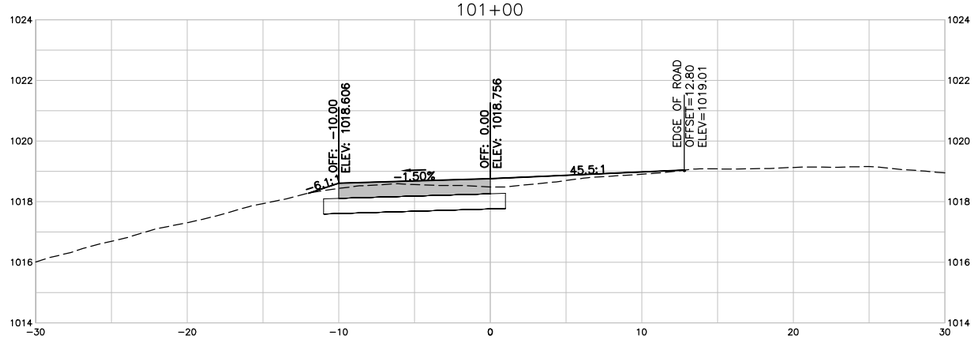

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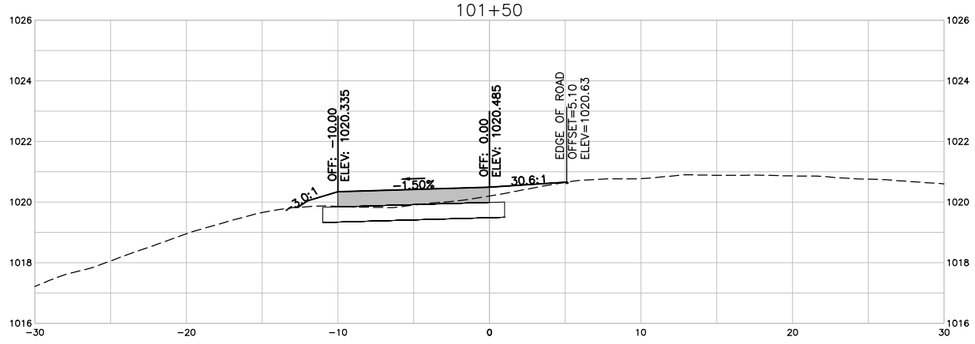

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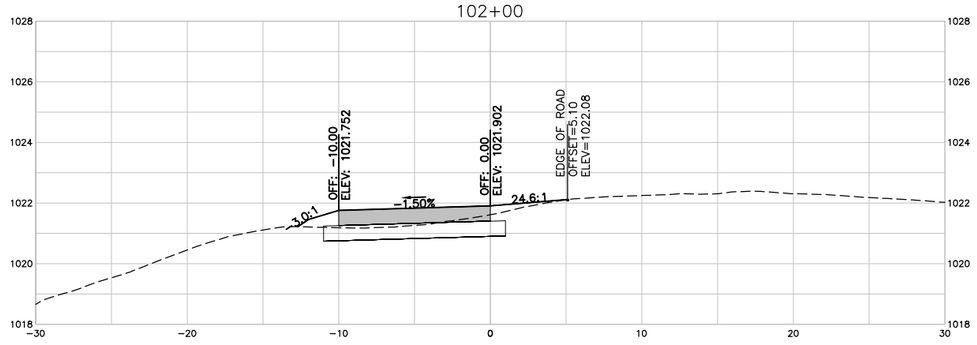

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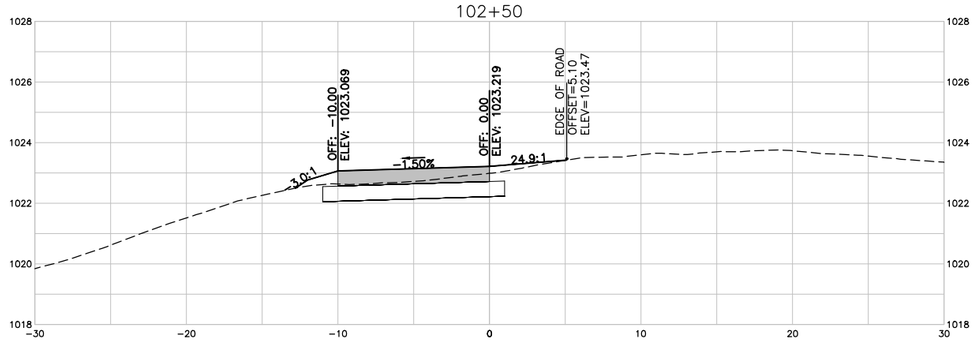

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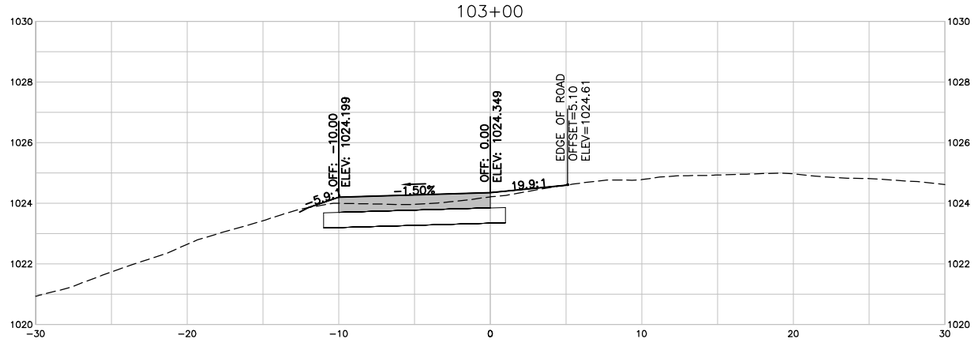

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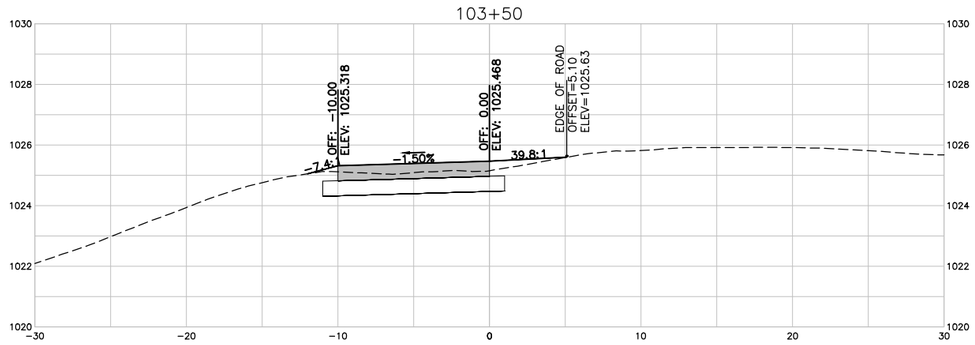
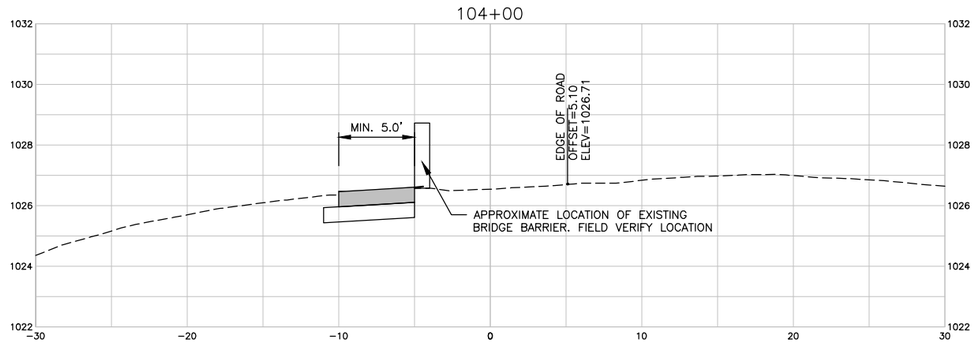
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

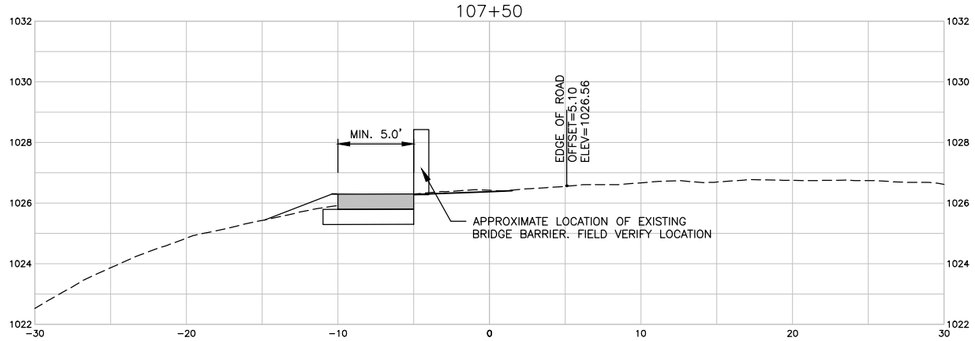
CROSS SECTIONS
SHARED USE PATH

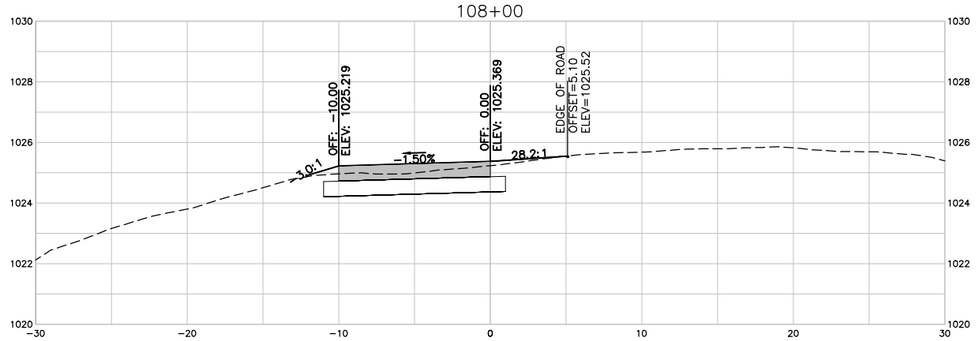
SHEET NO.
W.01

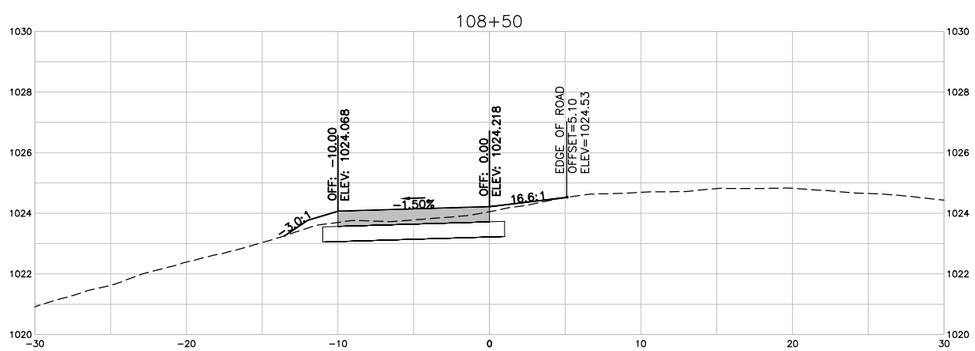
Xrefs: XV-D-AERIAL XC-1-DSGN; xgl-1-dh01

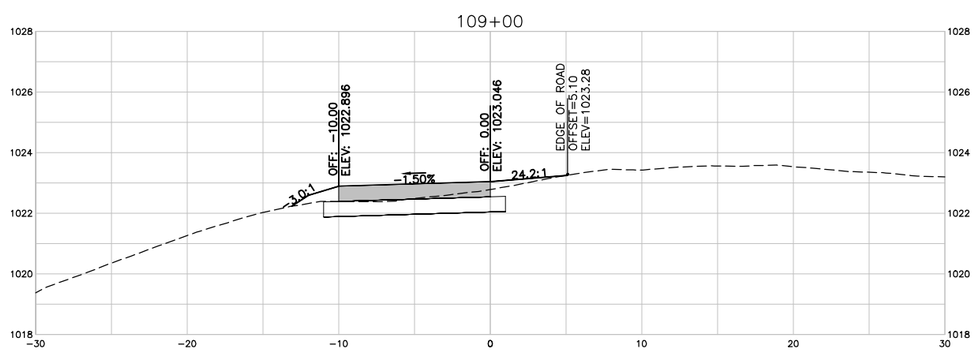












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APPROVED:	BM
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CAD FILE:	J:\2024\2402192\CAD\Dwgs\W\W.01.dwg
JOB DATE:	2024
JOB NUMBER:	2402192

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NO.	DATE	BY	REVISION DESCRIPTION

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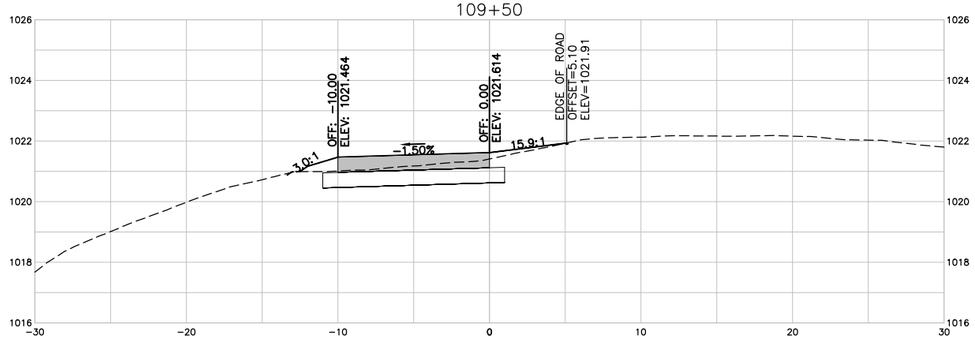
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.02

Xrefs: XV-0-AERIAL; XC-1-DSGN; xgl-1-dh01

109+50



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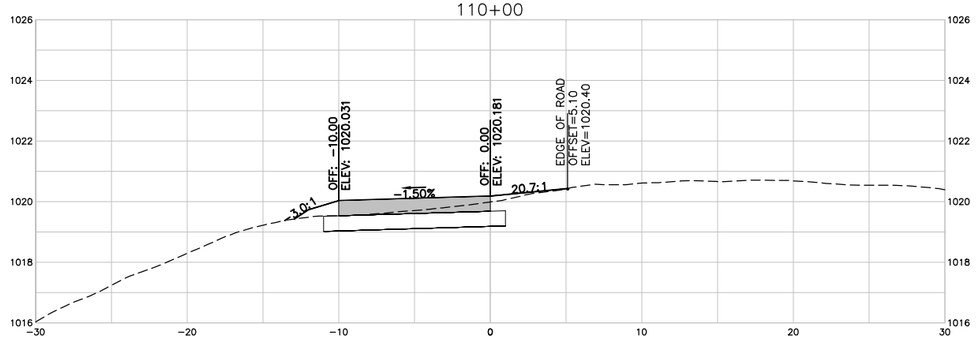

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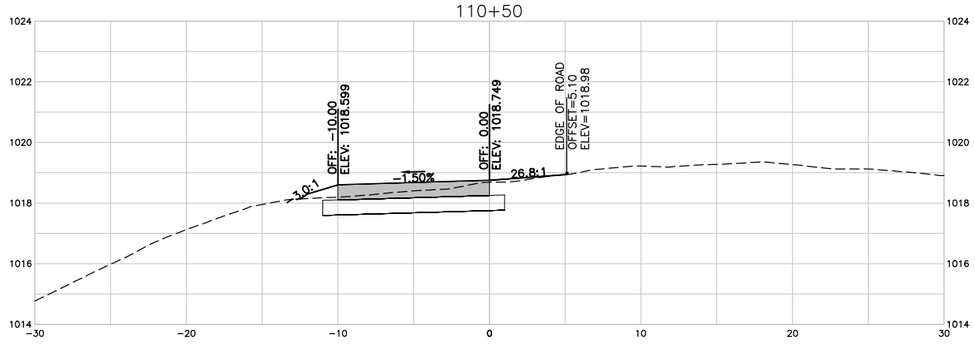

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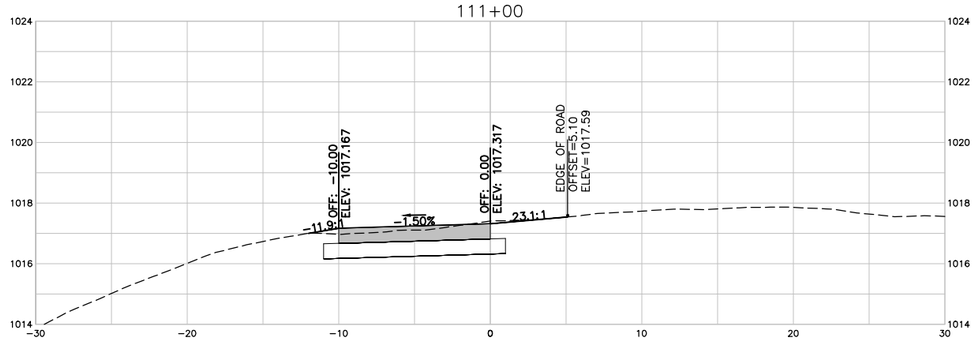

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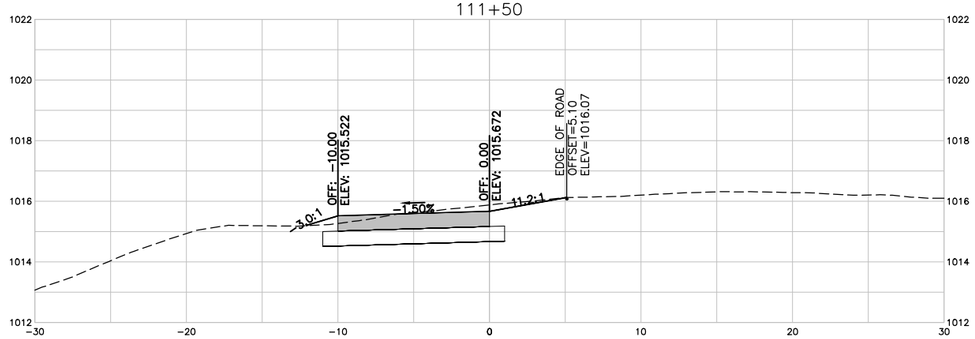

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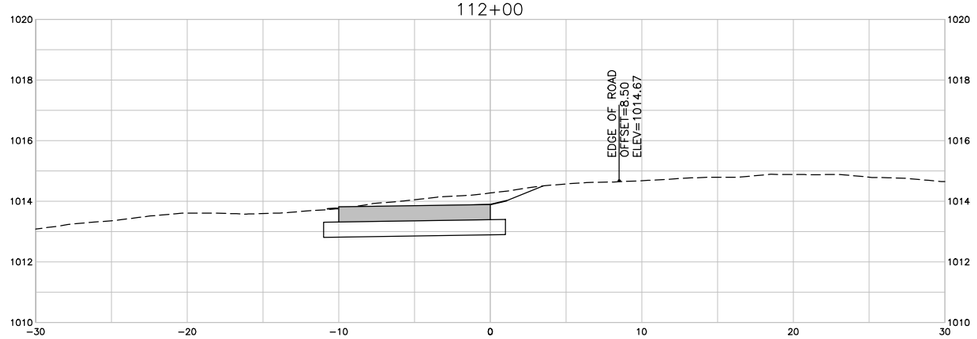

Xrefs: XV-0-AERIAL; XC-1-DSGN; xg1-1-dh01

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APPROVED: BM	JOB NUMBER: 2402192	0 1"	
CAD DATE: 4/9/2024 11:31:37 AM		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
CAD FILE: J:\2024\2402192\CAD\Dwgs\W\W.01.dwg			

NO.	DATE	BY	REVISION DESCRIPTION

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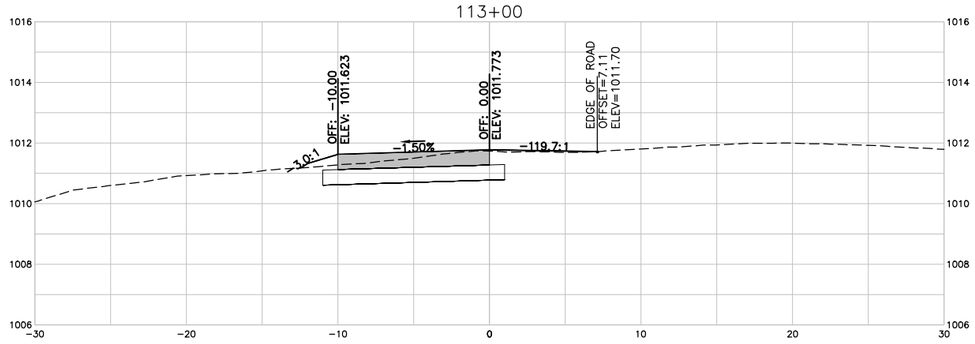
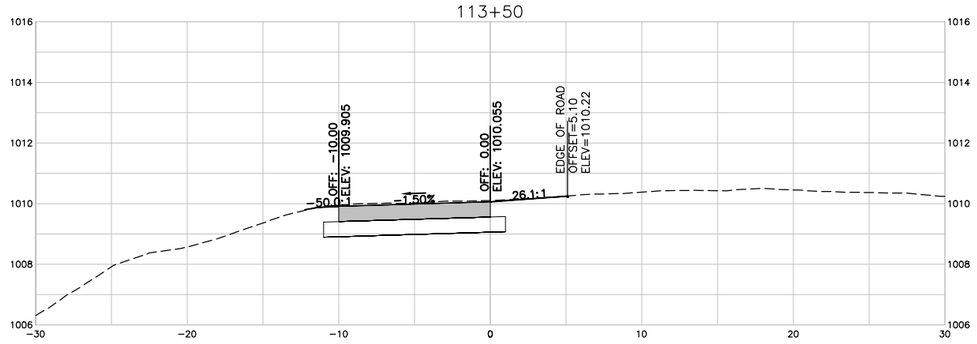
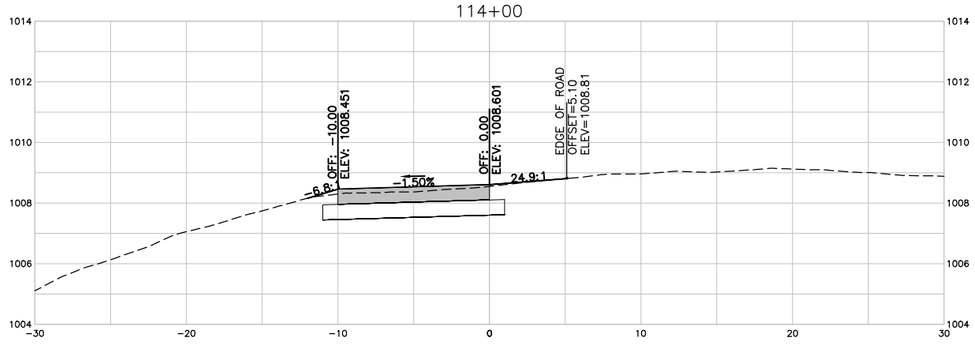
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

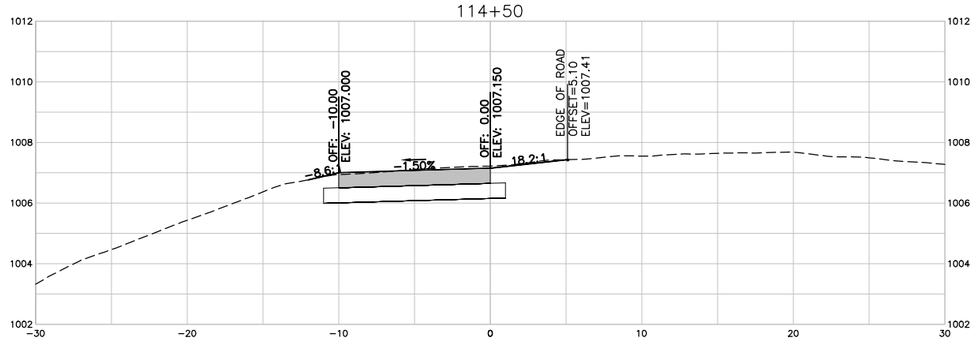
CROSS SECTIONS
SHARED USE PATH

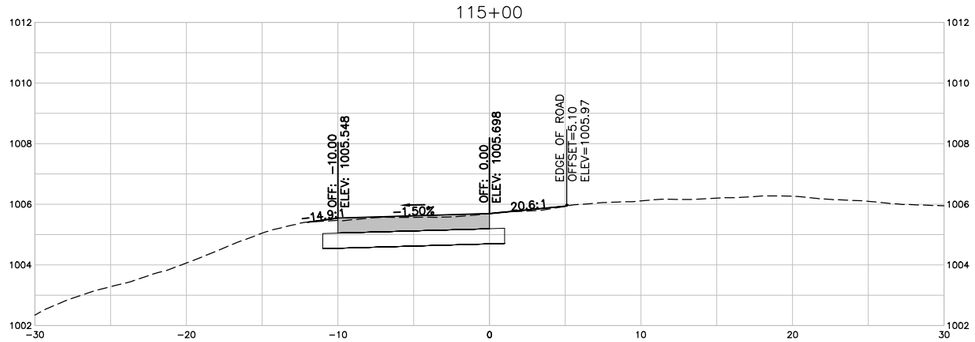
SHEET NO.
W.03

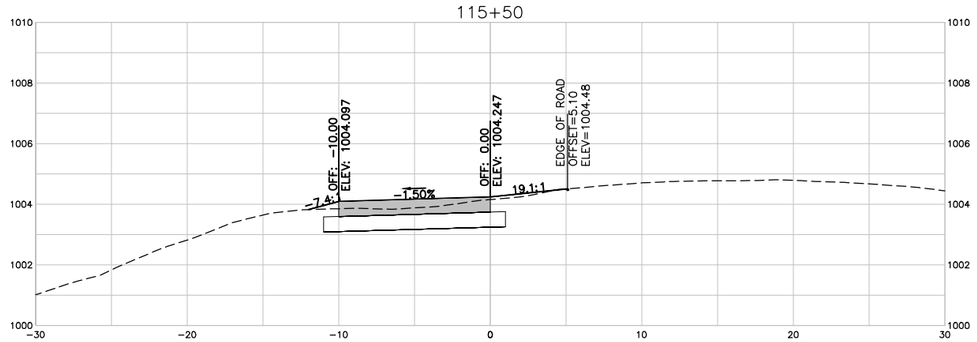












Xrefs: XV-0-AERIAL; XC-1-DSGN; vgt-1-dh01

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APPROVED: BM	JOB NUMBER: 2402192	0 1"	
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CAD FILE: J:\2024\2402192\CAD\Dwgs\W\W.01.dwg			

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19TH STREET TRAIL
CITY OF NEVADA
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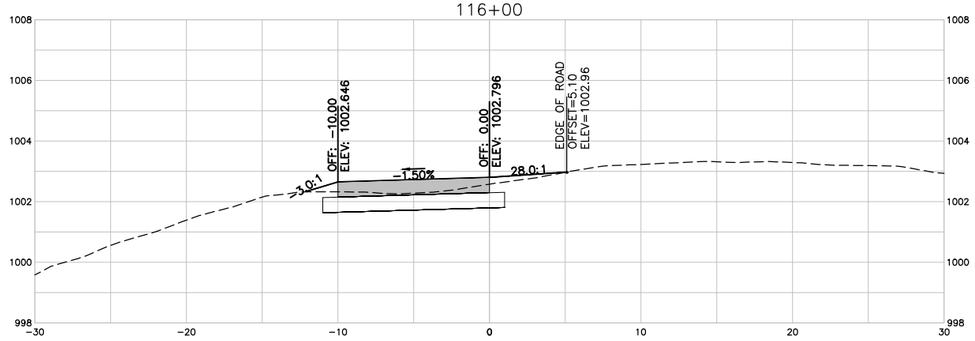
CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.04

116+00



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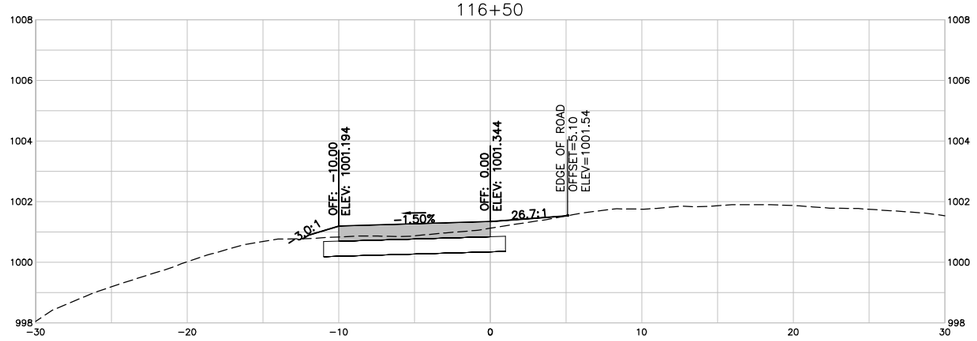

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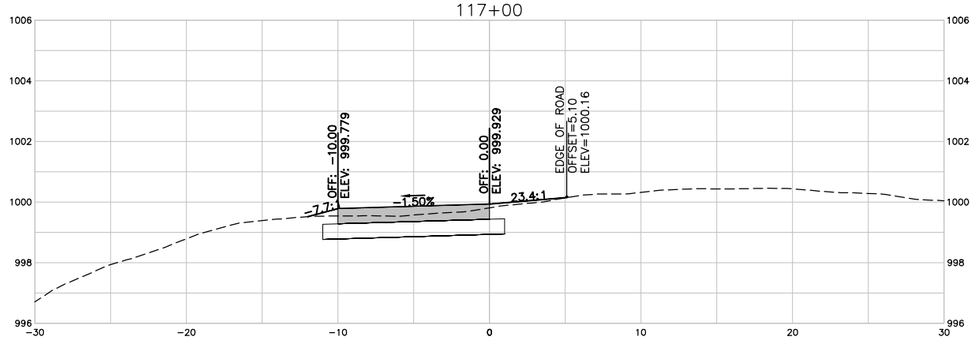

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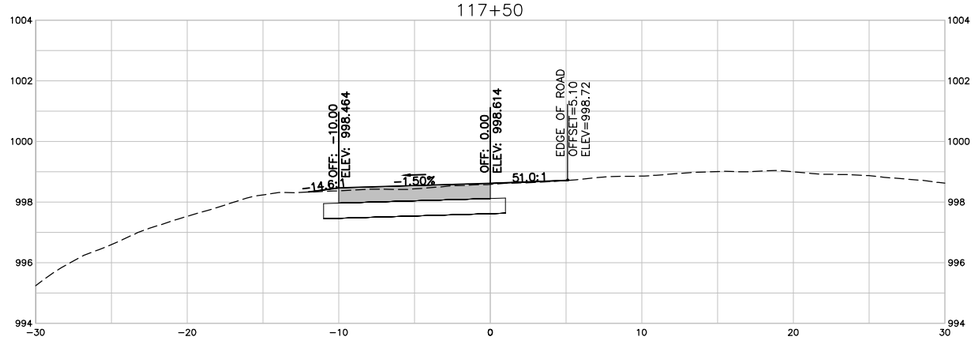

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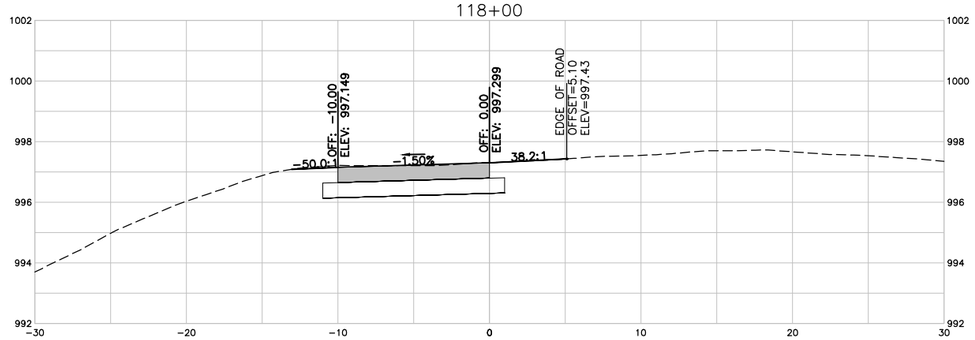

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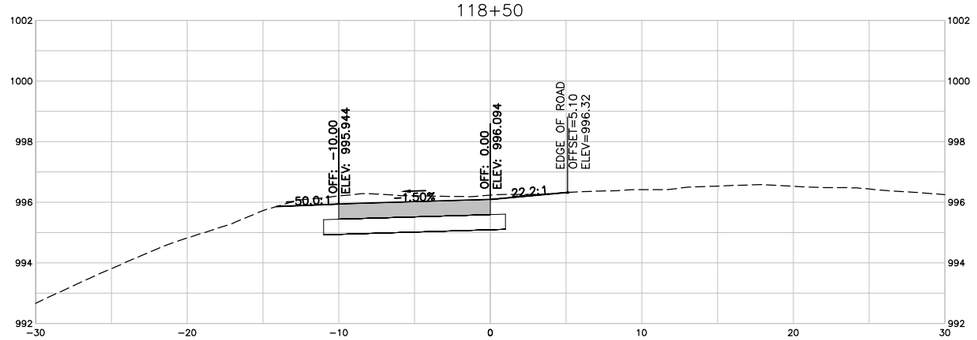

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CAD FILE:	J:\2024\2402192\CAD\Dwgs\W\W.01.dwg		

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19TH STREET TRAIL
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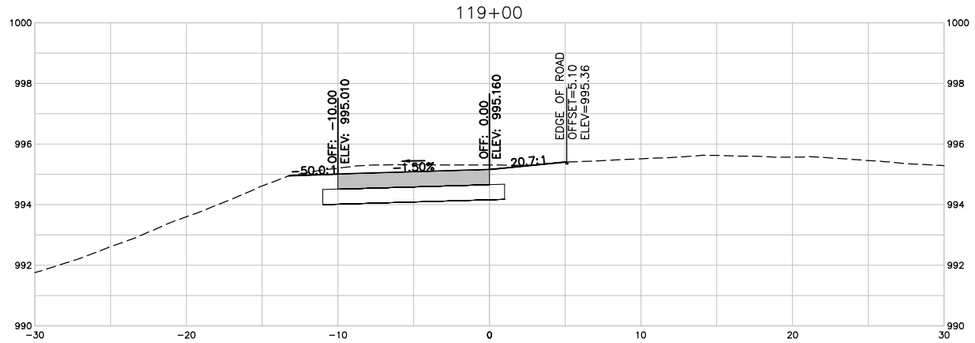
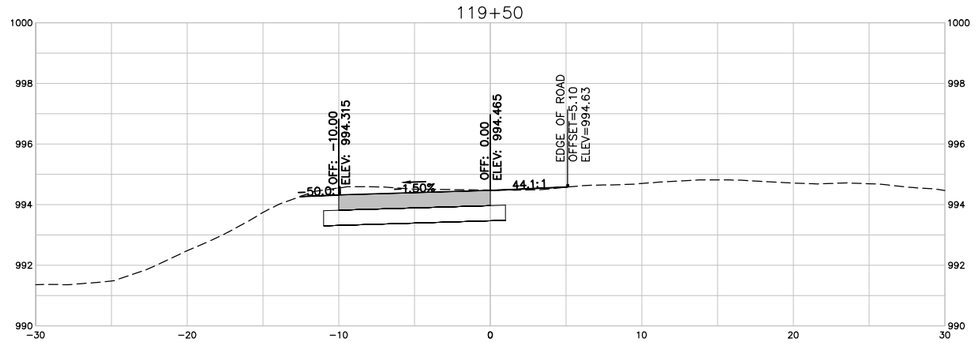
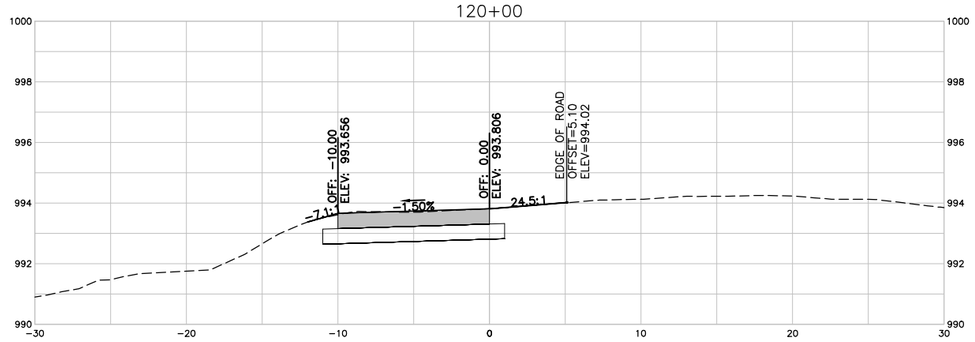
CROSS SECTIONS
SHARED USE PATH

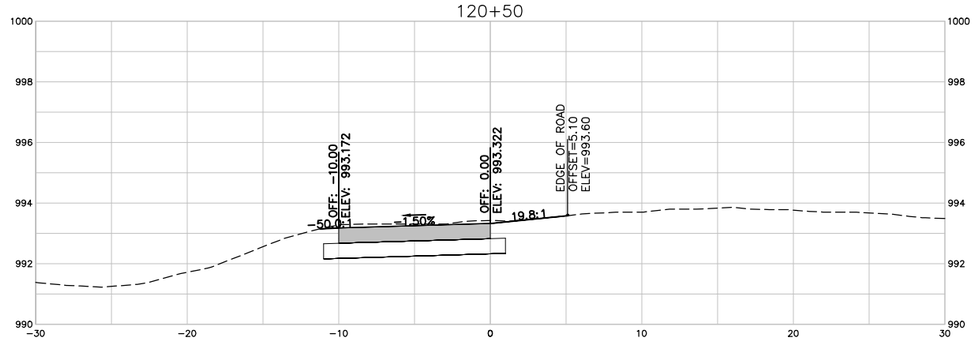
SHEET NO.
W.05

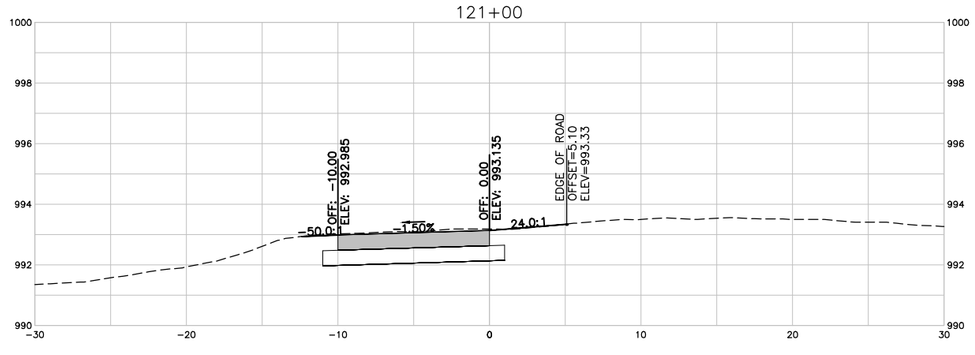
Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

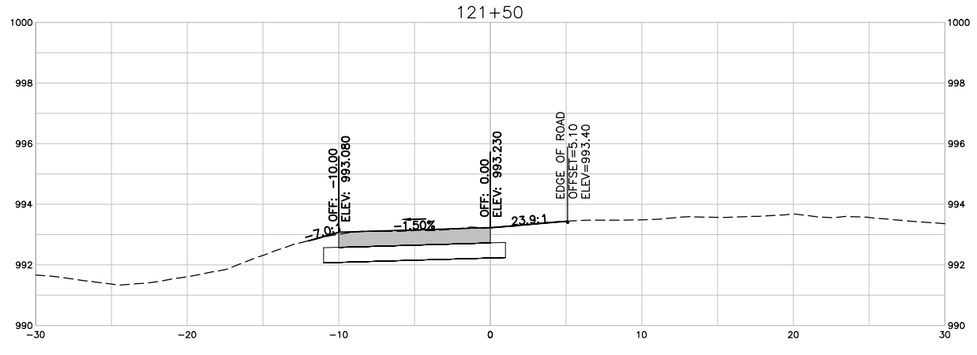












Xrefs: XY-0-AERIAL; XC-1-DSGN; xgt-1-dh01

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19TH STREET TRAIL
CITY OF NEVADA
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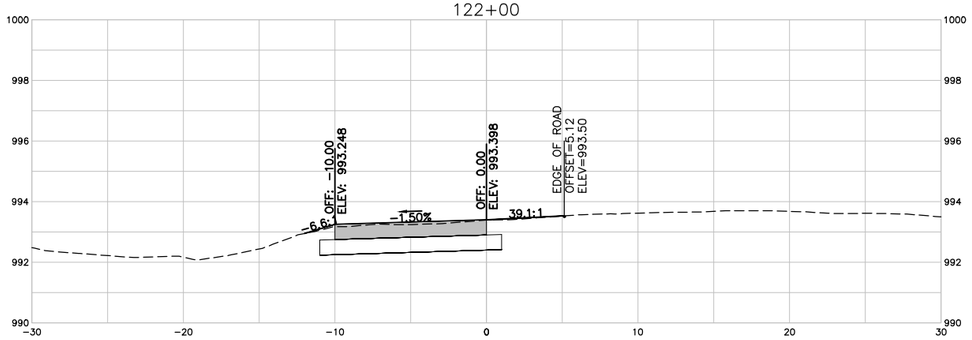
CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.06

122+00



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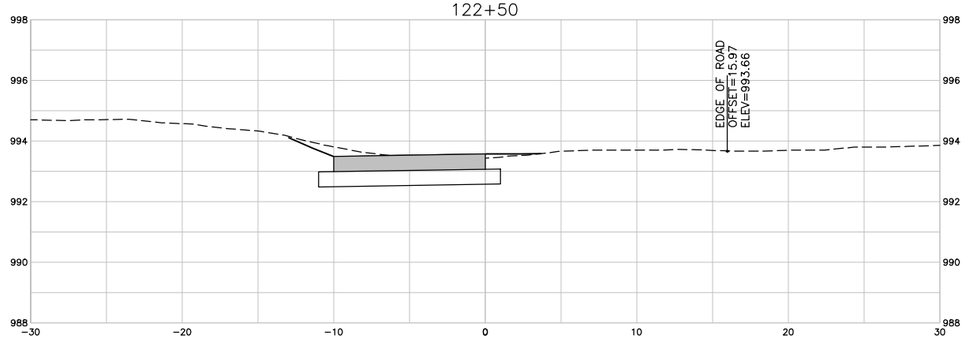
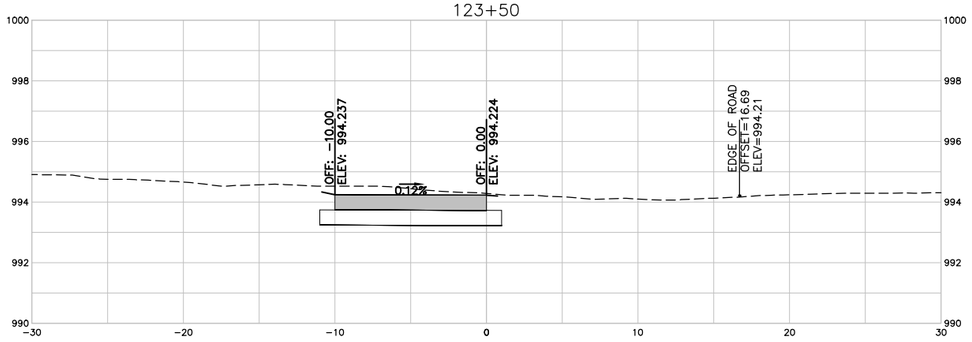


123+50



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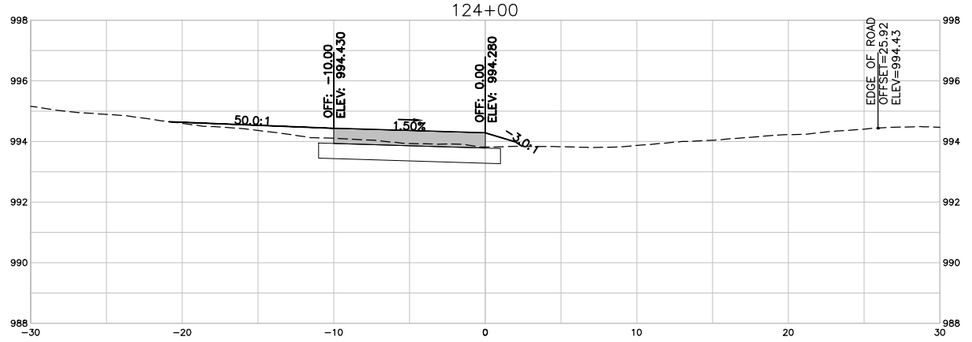

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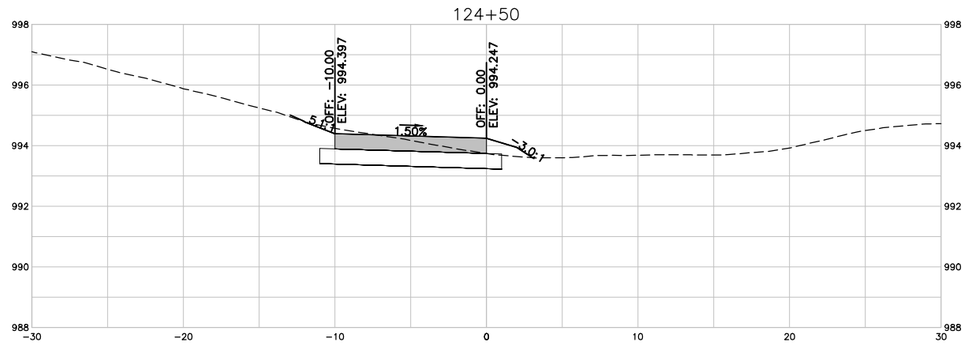
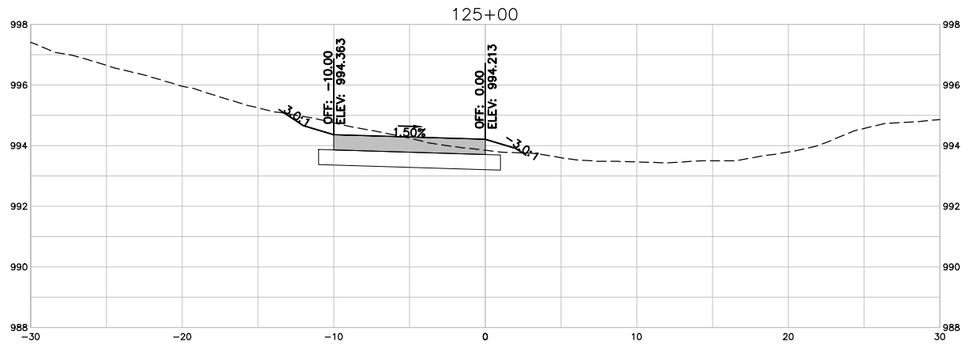


125+00



Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

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APPROVED: BM JOB NUMBER: 2402192
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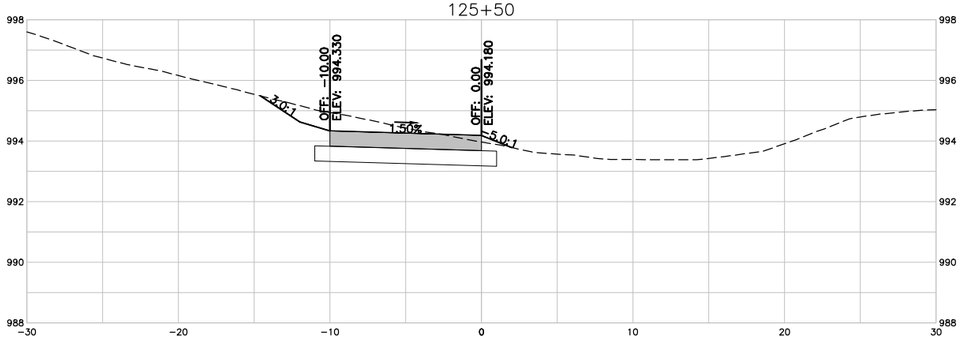
SHEET NO.
W.07

125+50



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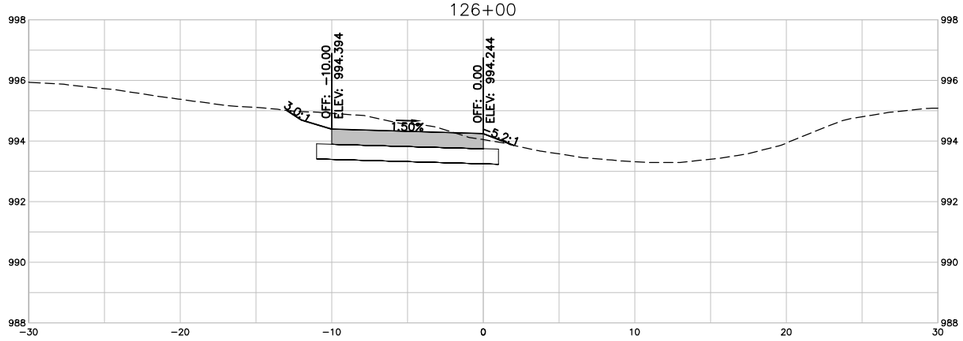

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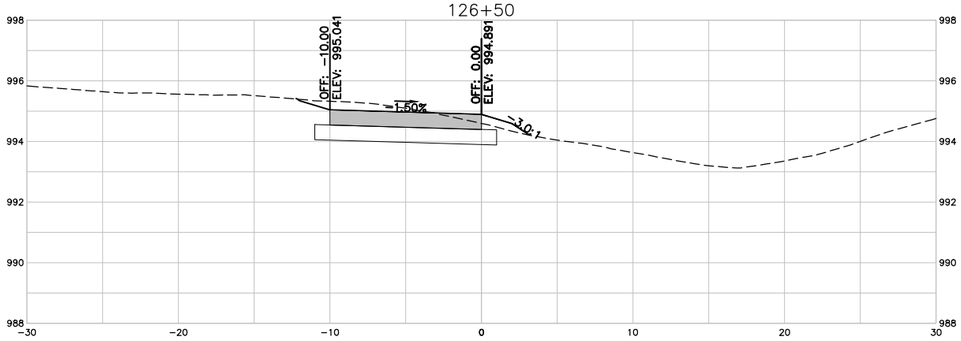

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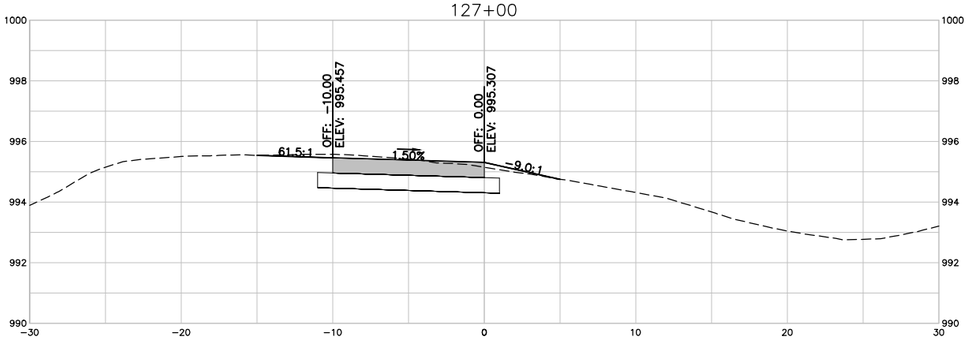

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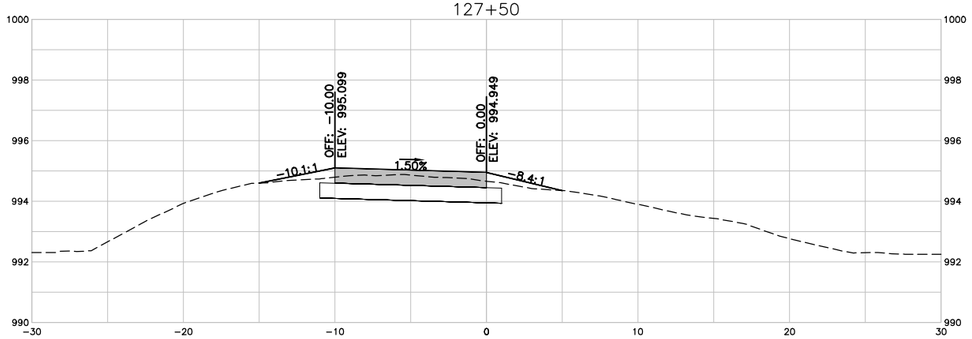

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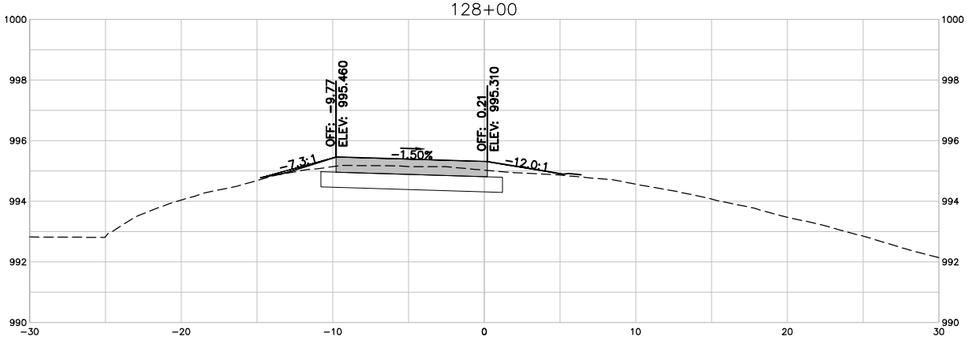

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APPROVED:	BM	JOB NUMBER:	2402192
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19TH STREET TRAIL
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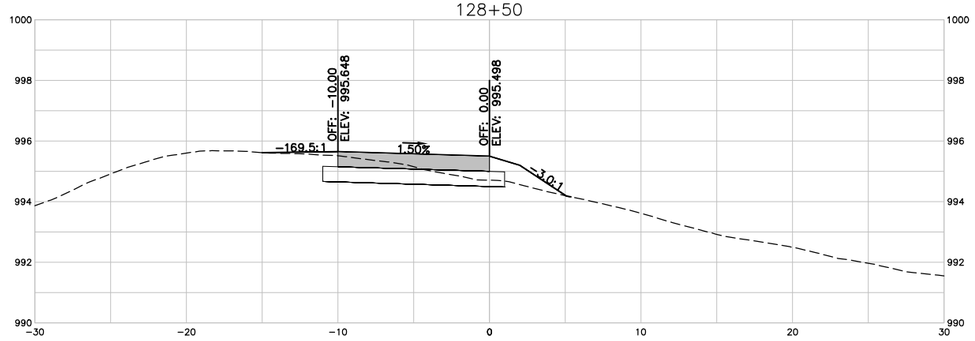
SHEET NO.
W.08

Xrefs: XV-D-AERIAL; XC-1-DSGN; xgi-1-dh01

128+50



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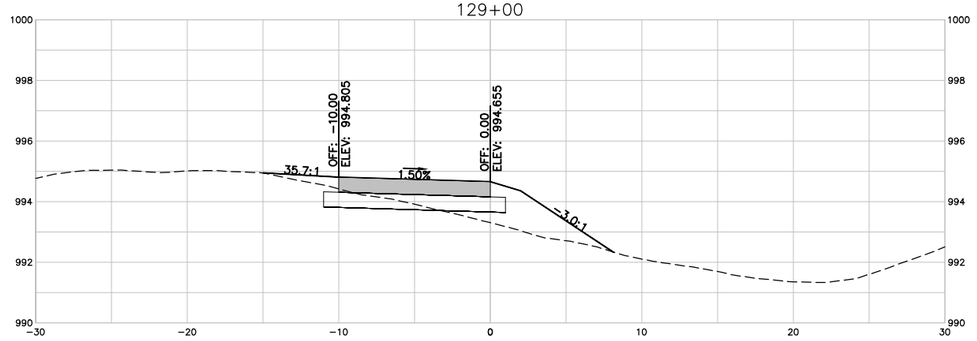

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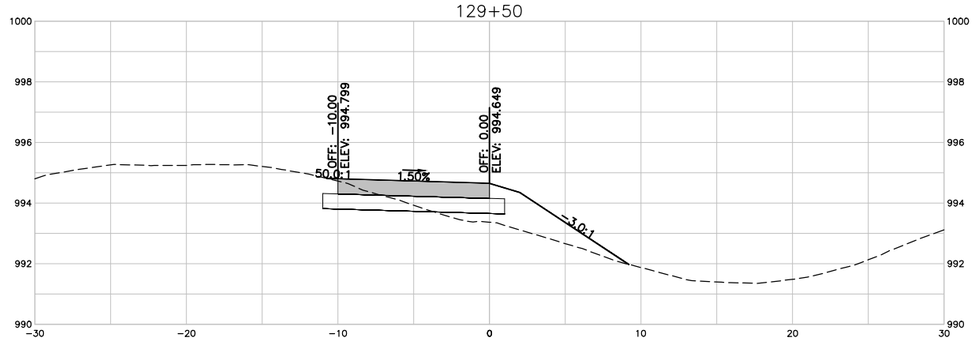

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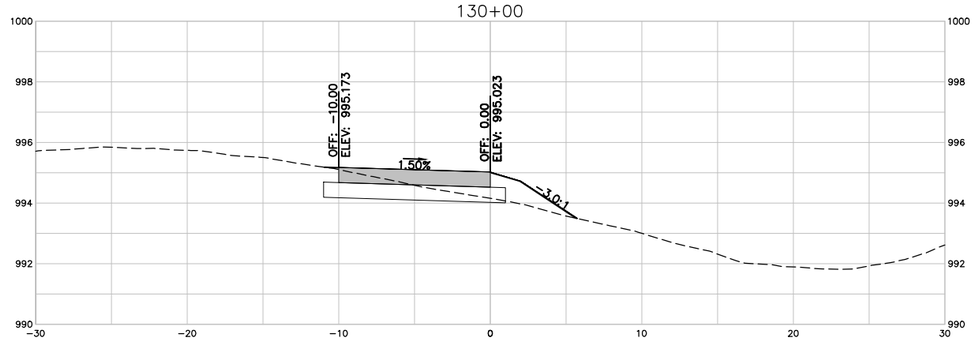

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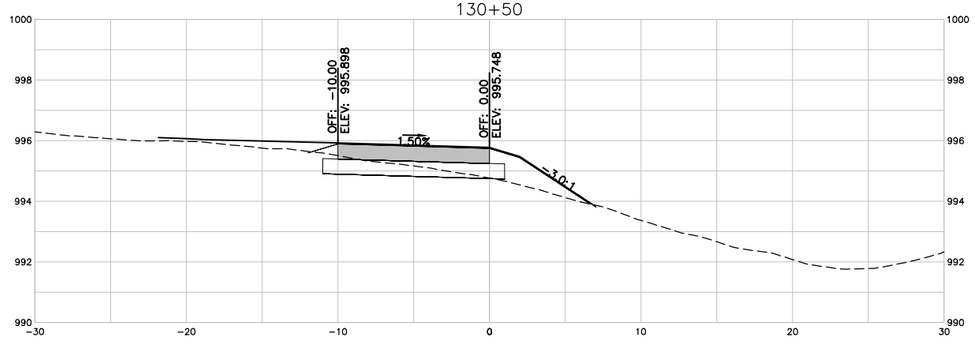

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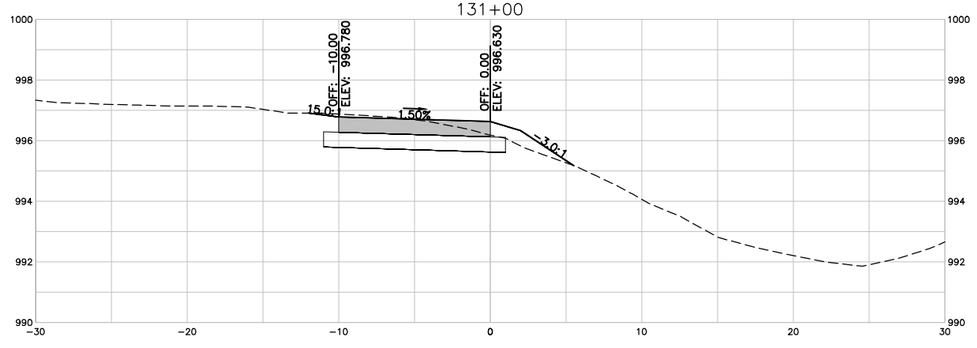

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APPROVED:	BM	JOB NUMBER:	2402192
CAD DATE:	4/9/2024 11:31:37 AM		
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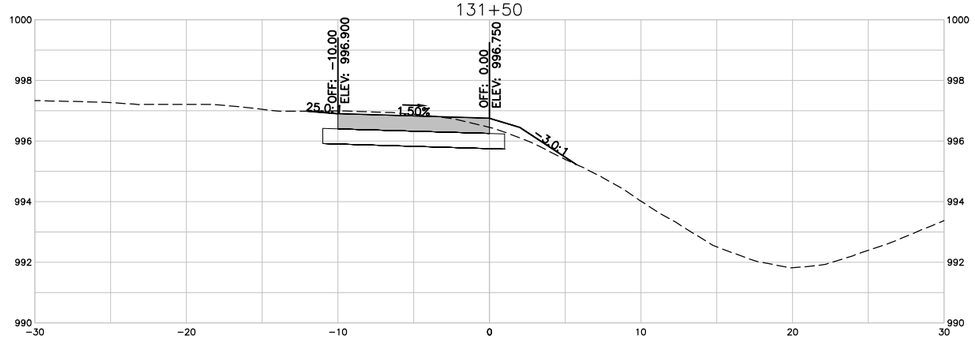
SHARED USE PATH

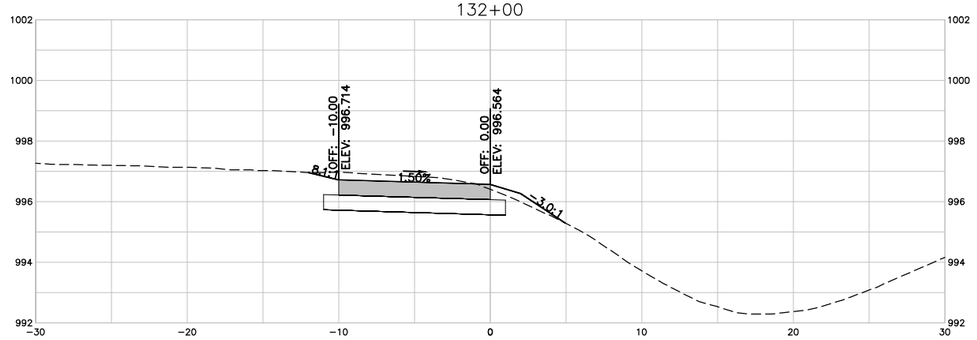
SHEET NO.
W.09

Xrefs: XV-D-AERIAL; XC-1-DSGN; xgi-1-dh01

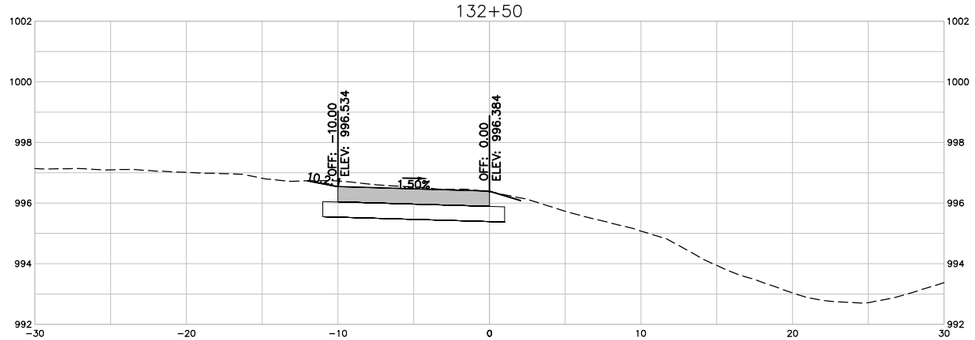
131+50



132+00



132+50



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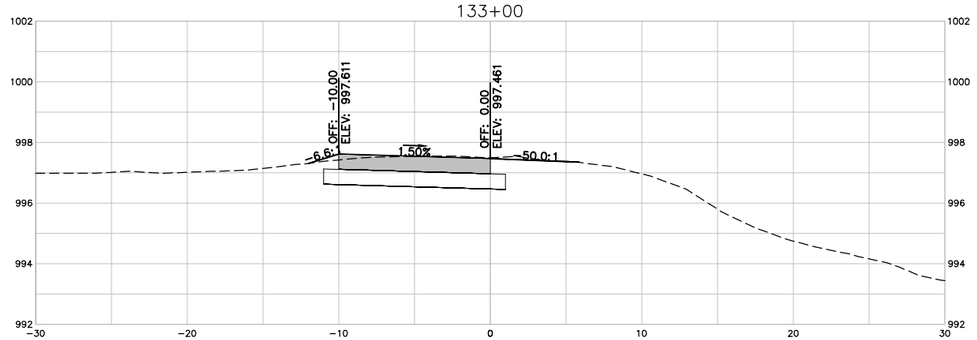

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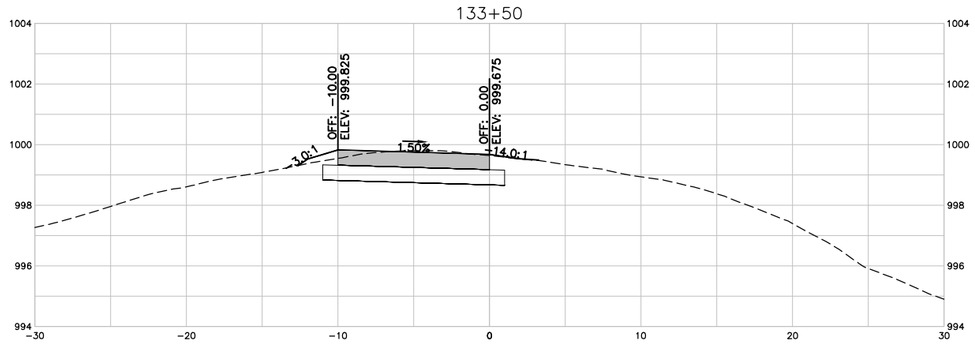

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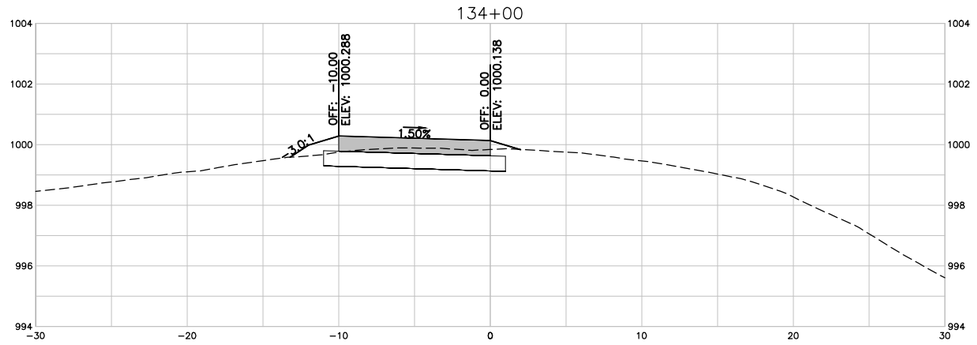

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APPROVED:	BM	JOB NUMBER:	2402192
CAD DATE:	4/9/2024 11:31:37 AM		
CAD FILE:	J:\2024\2402192\CAD\Dwgs\W\W.01.dwg		

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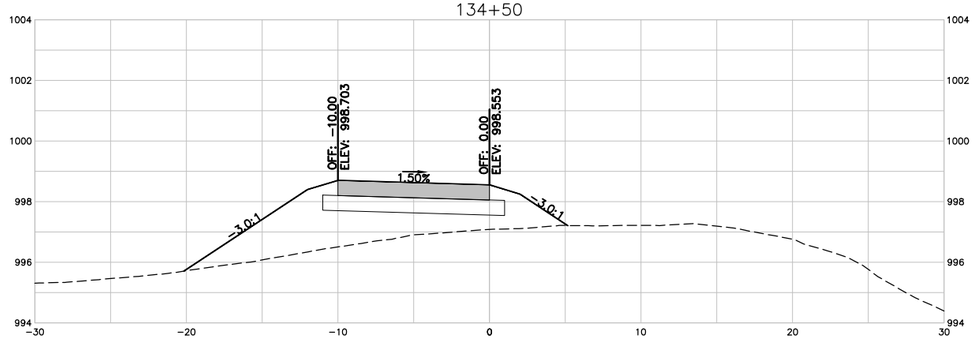
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.10

Xrefs: XV-D-AERIAL; XC-1-DSGN; xgt-1-dh01

134+50



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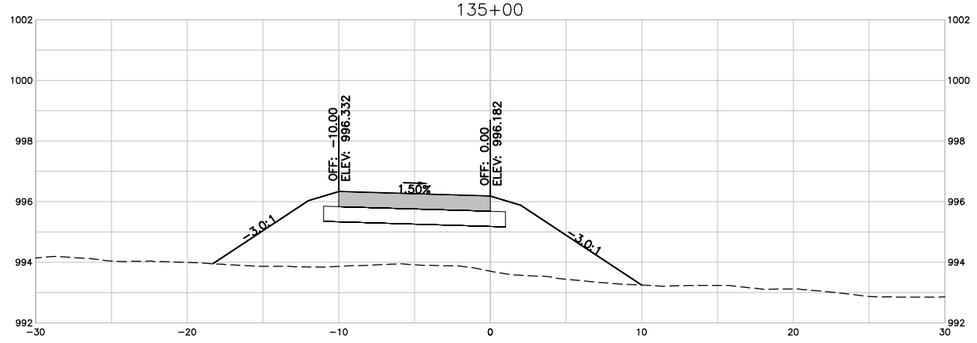
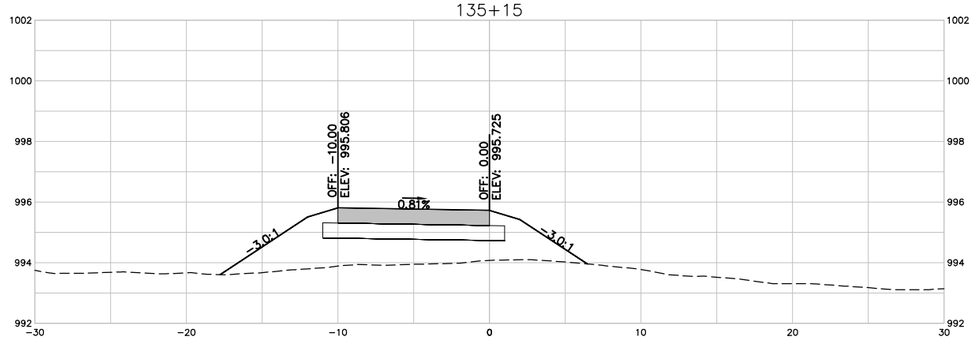
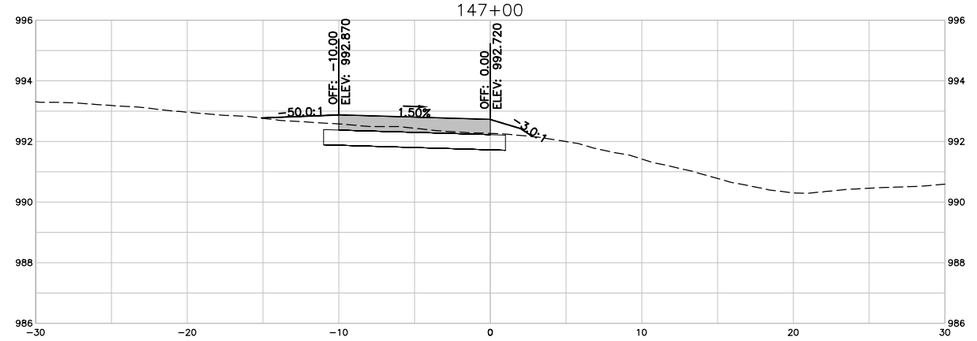


135+15



147+00



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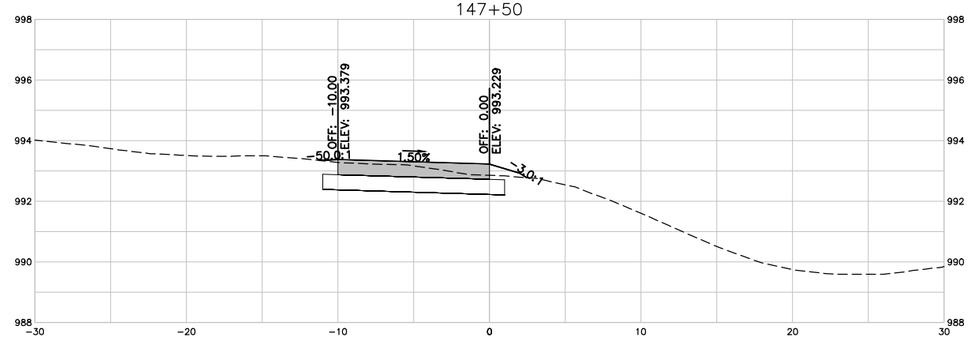
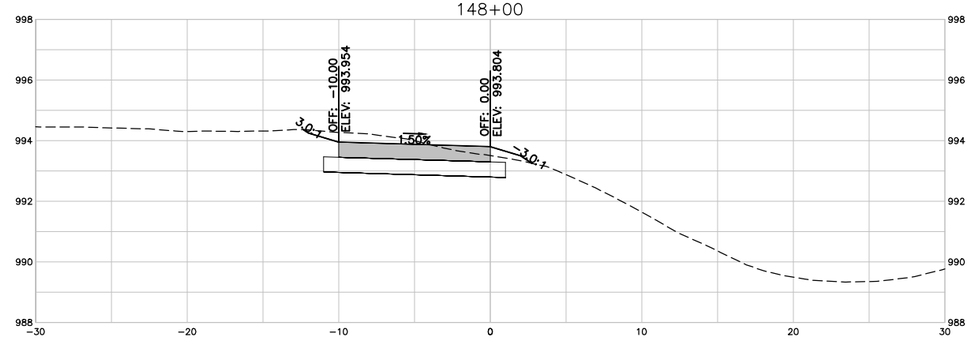


148+00



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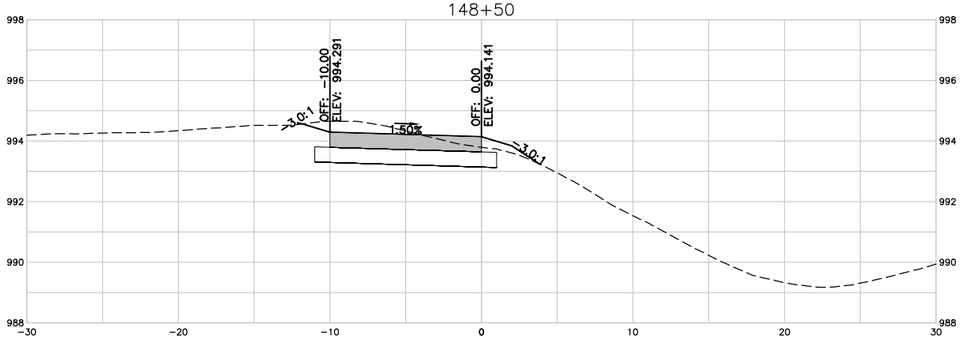
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

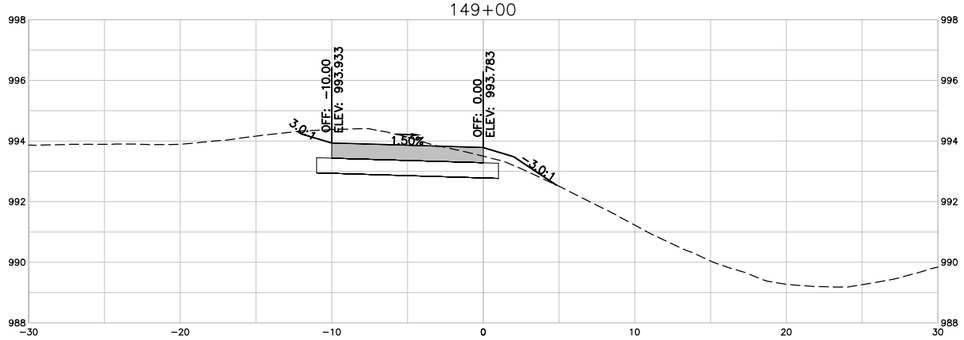
SHEET NO.
W.11

Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

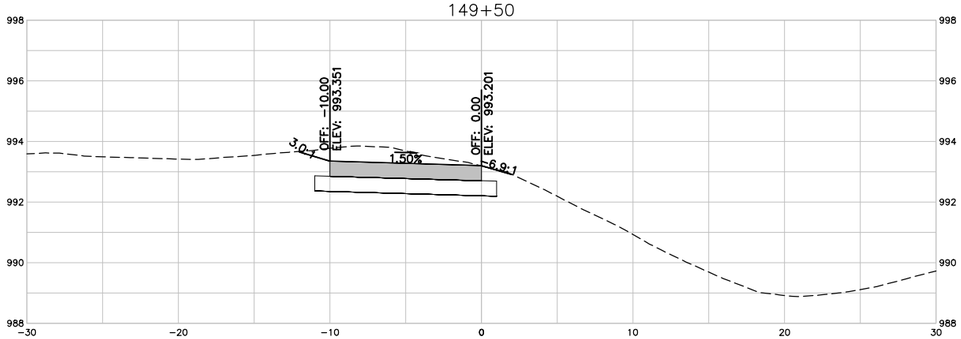
148+50



149+00



149+50



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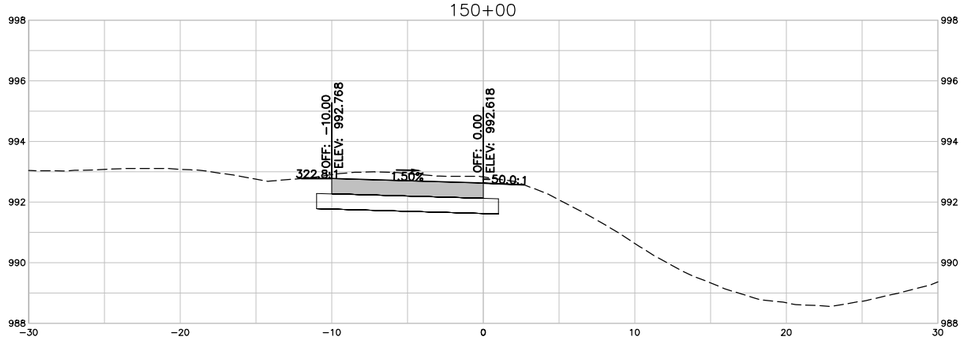

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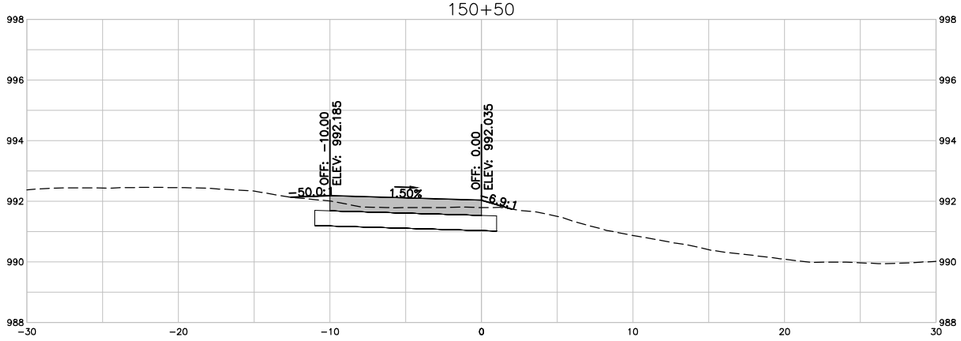
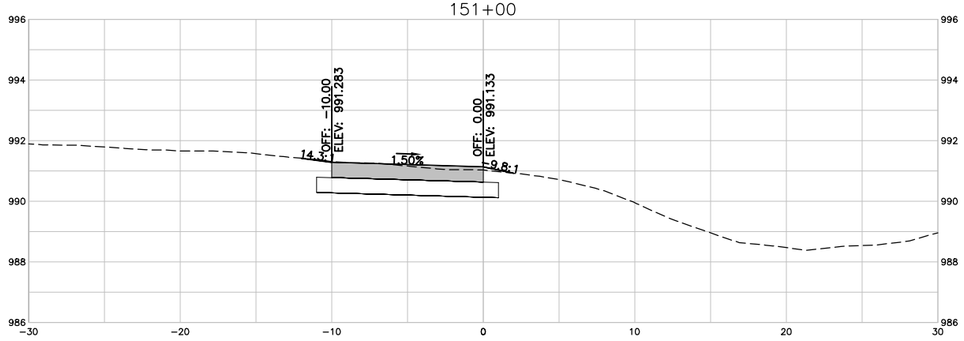


151+00



Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

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APPROVED:	BM	JOB NUMBER:	2402192
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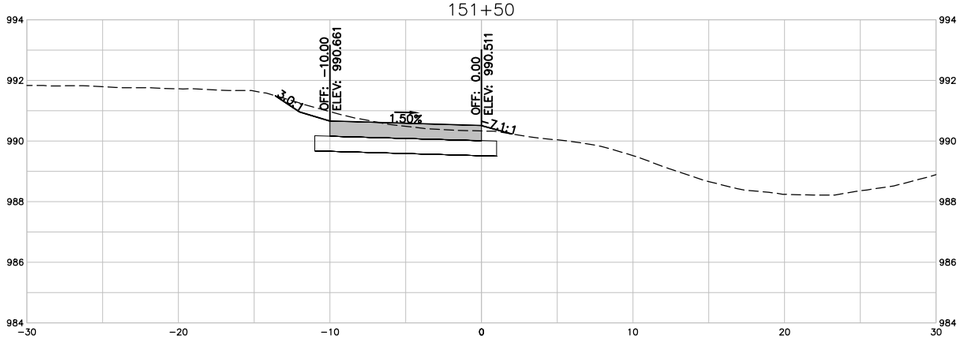
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.12

151+50



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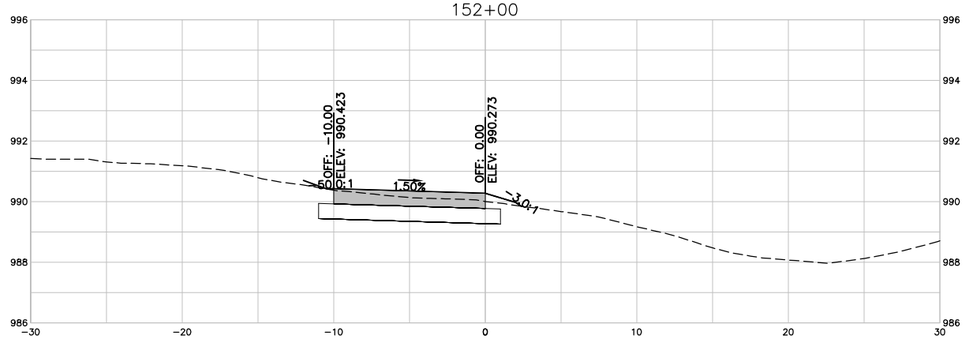
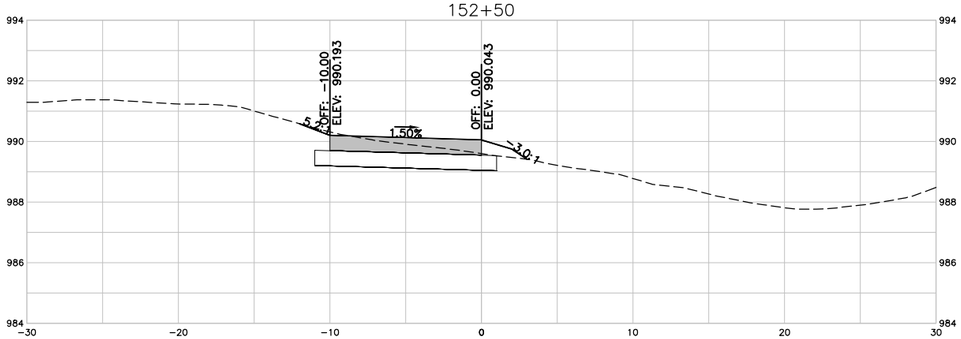
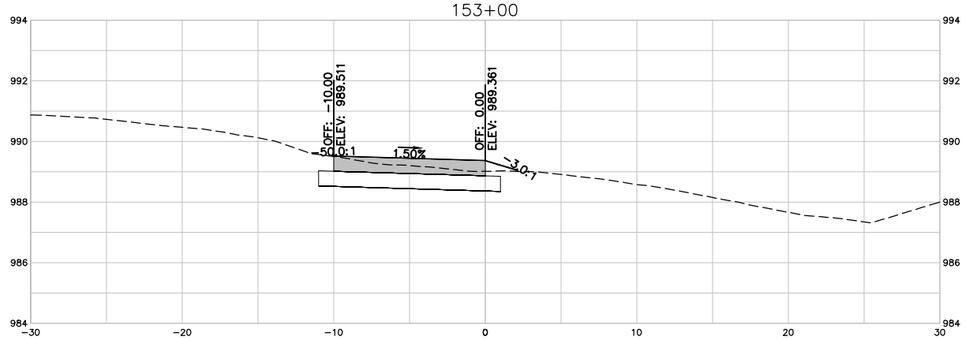


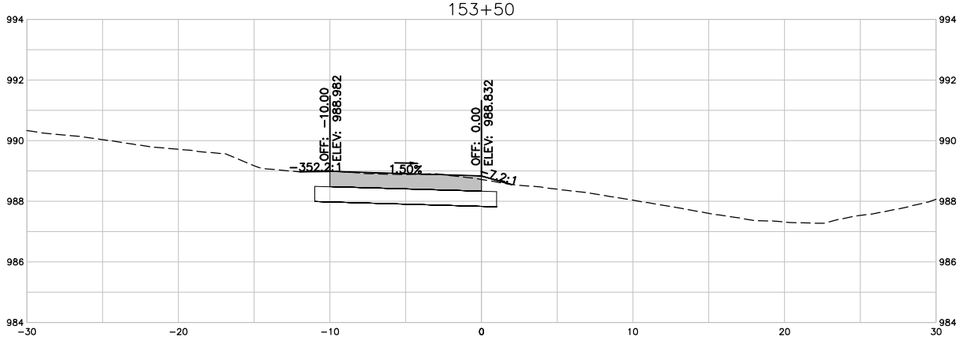
152+50



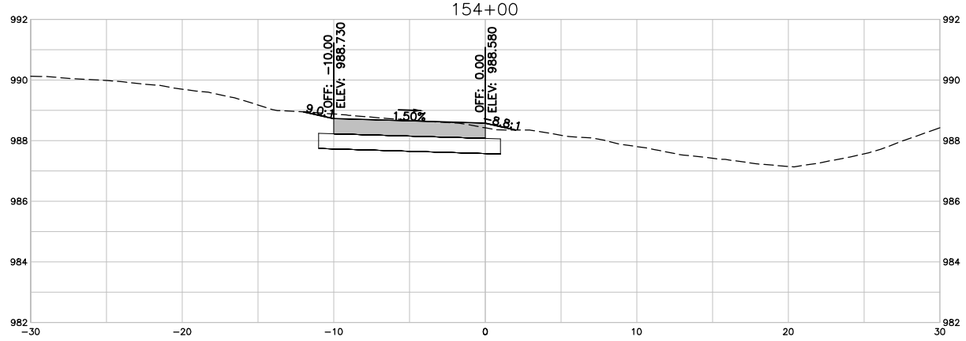
153+00



153+50



154+00



Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

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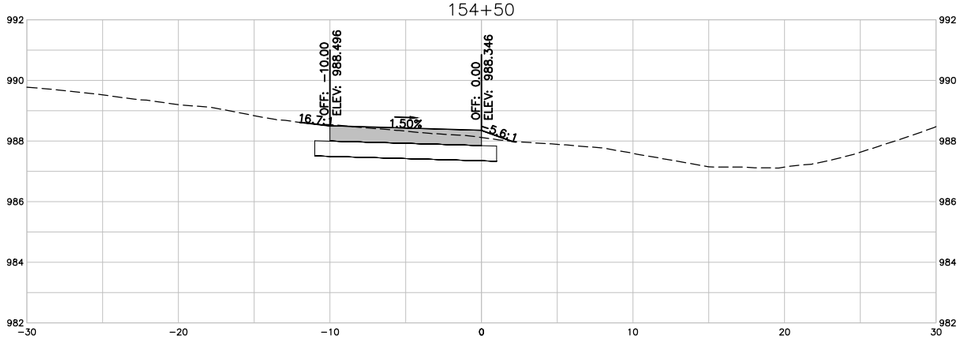
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.13

154+50



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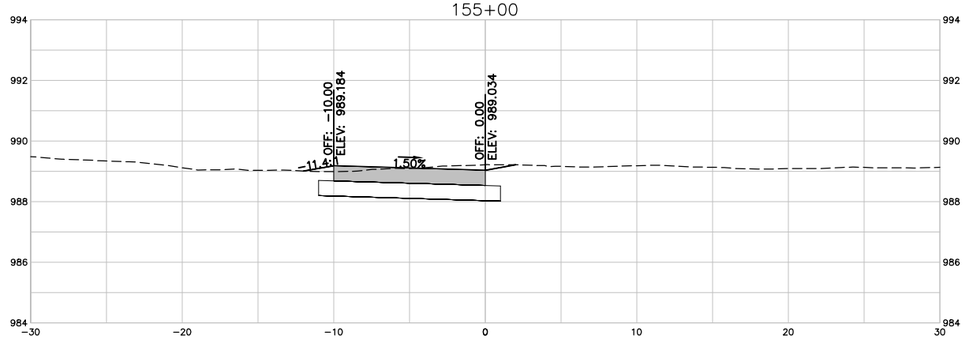
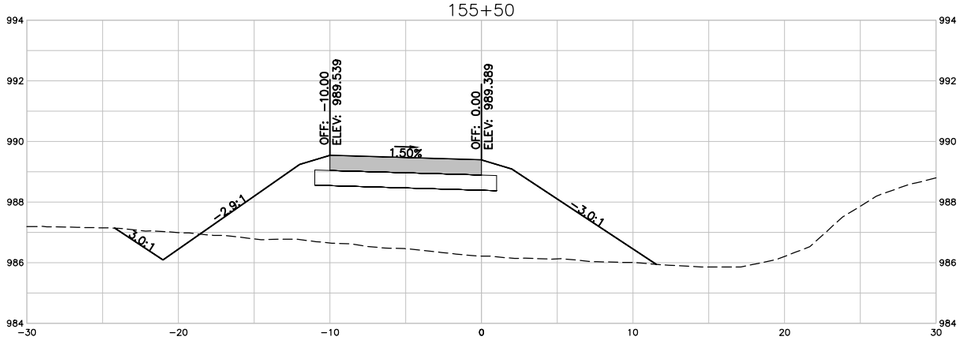
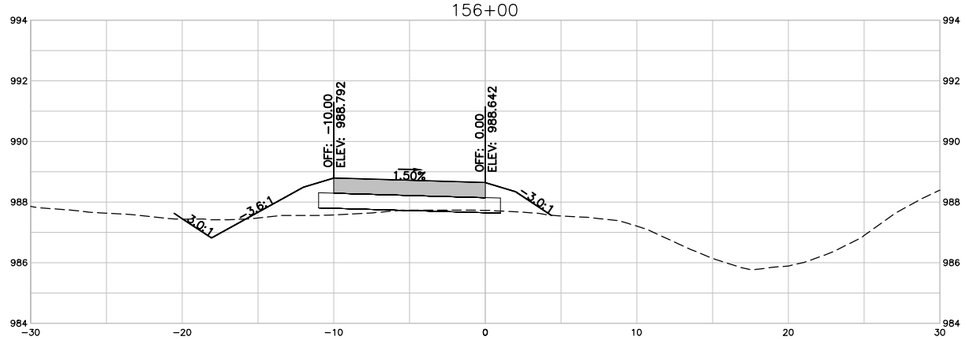


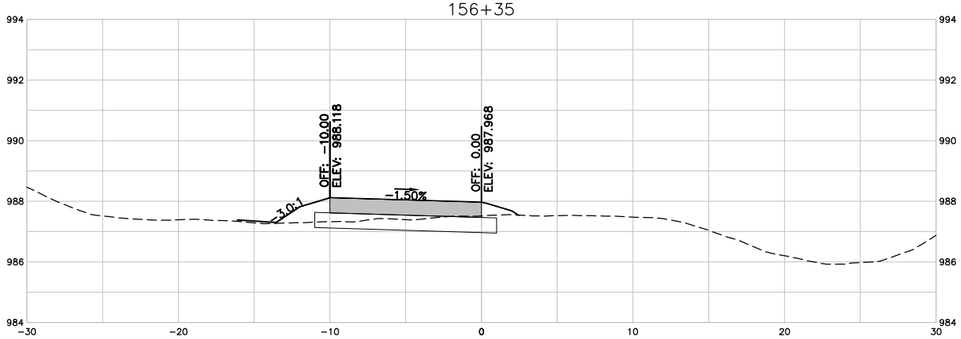
155+50



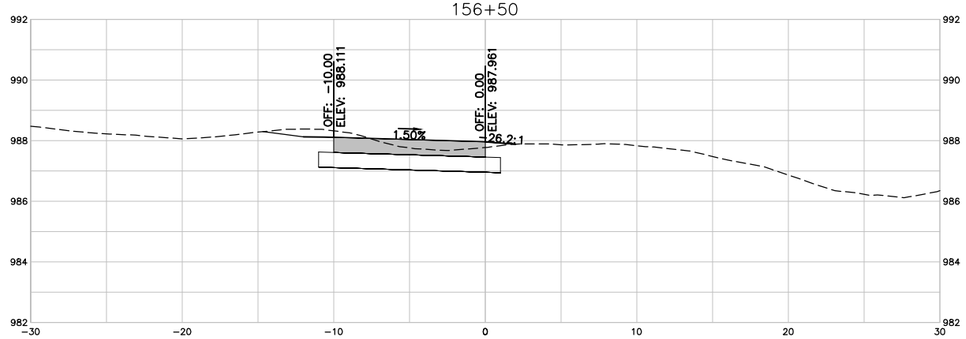
156+00



156+35



156+50



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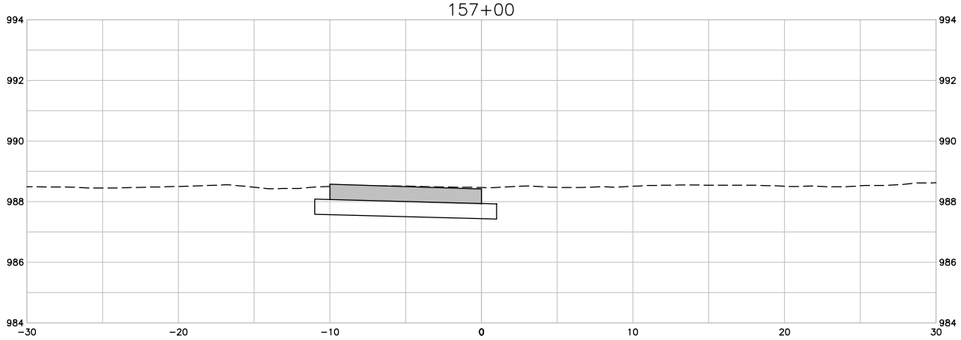
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

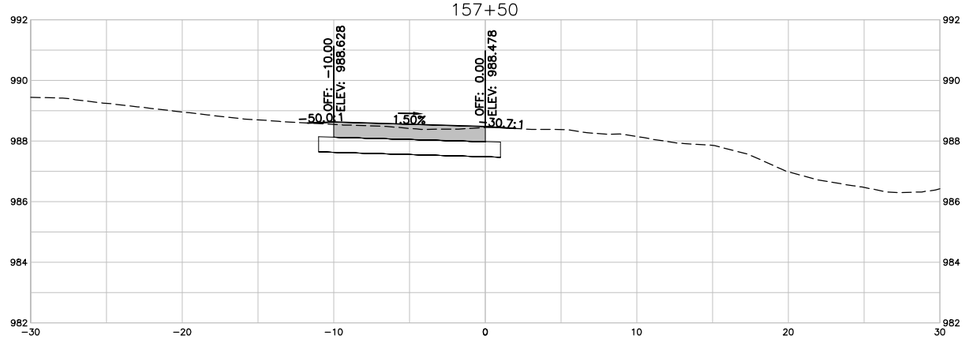
SHEET NO.
W.14

Xrefs: XV-0-AERIAL; XC-1-DSGN; xgt-1-dh01

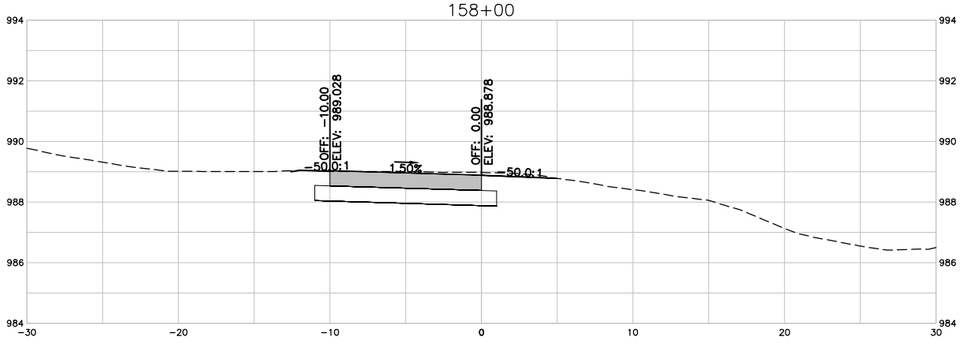
157+00



157+50



158+00



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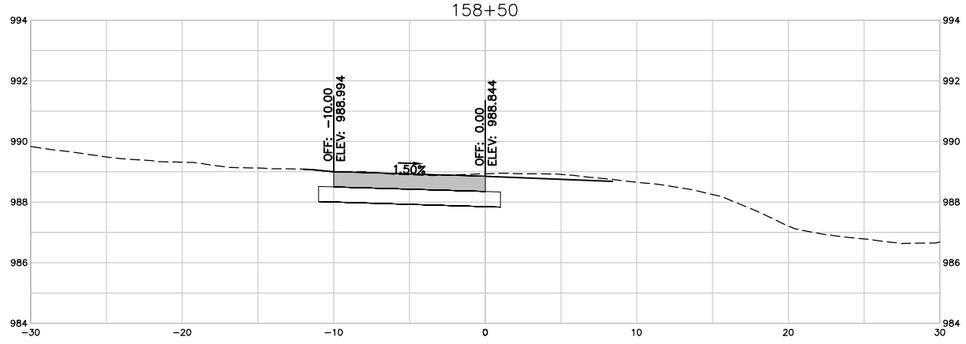
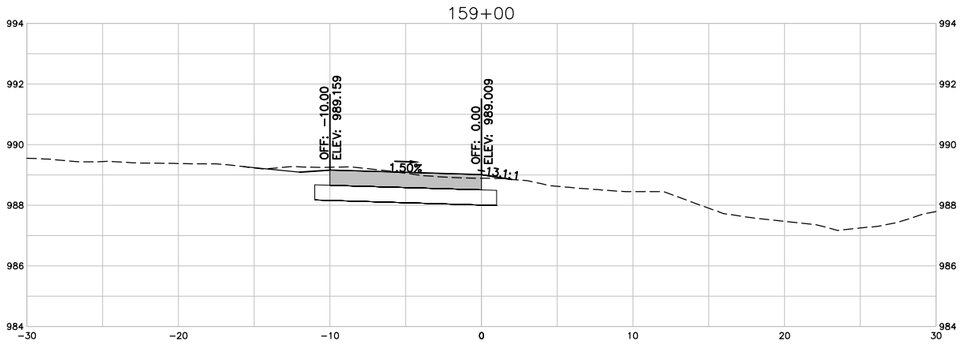
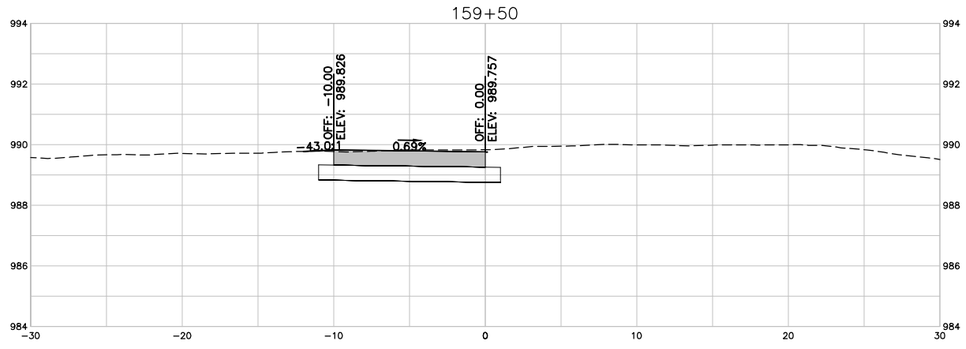


159+00



159+50



Xrefs: XV-0-AERIAL; XC-1-DSGN; xg1-1-dh01

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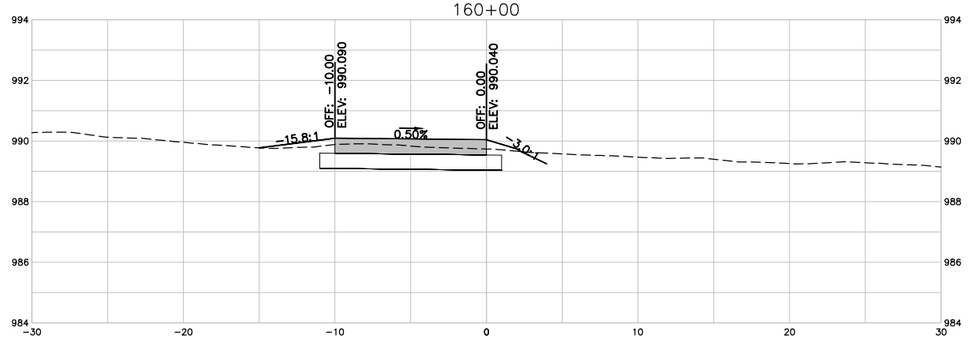
19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH

SHEET NO.
W.15

160+00



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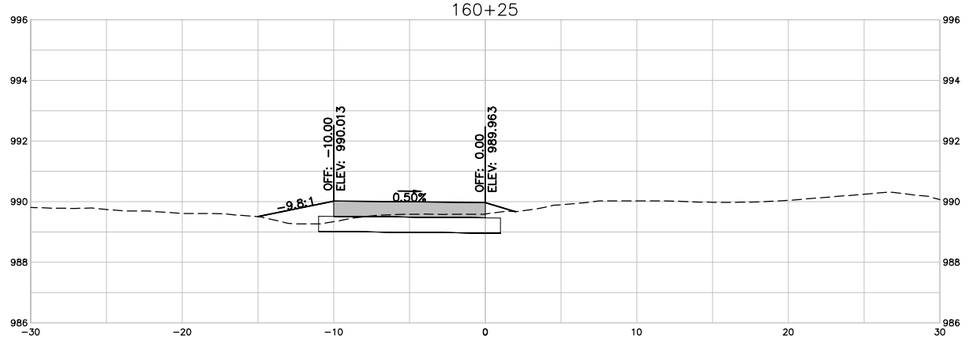
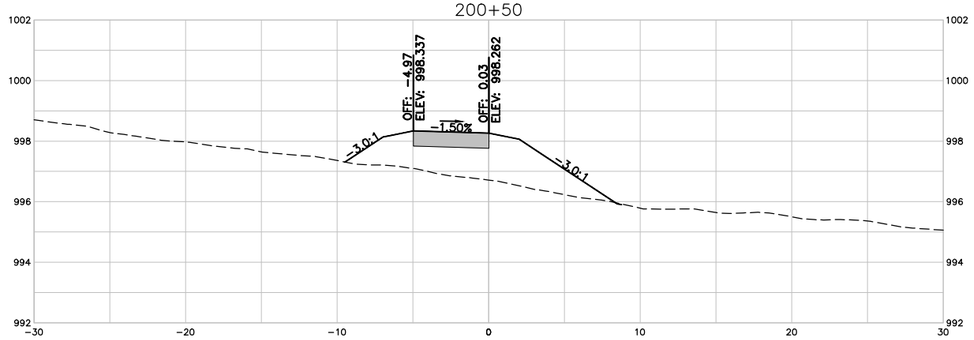
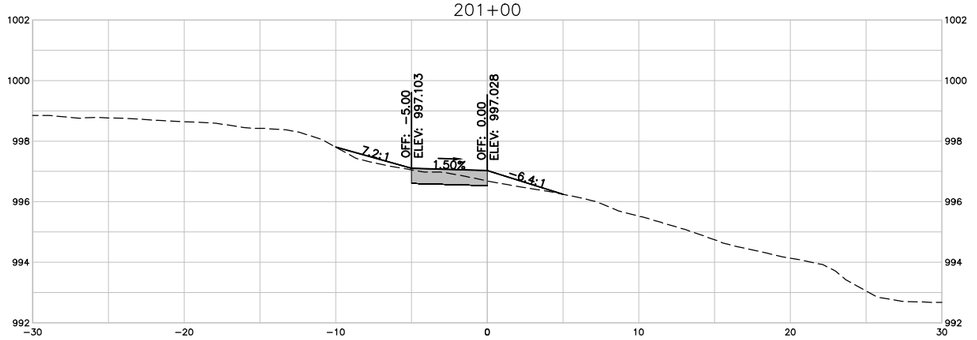


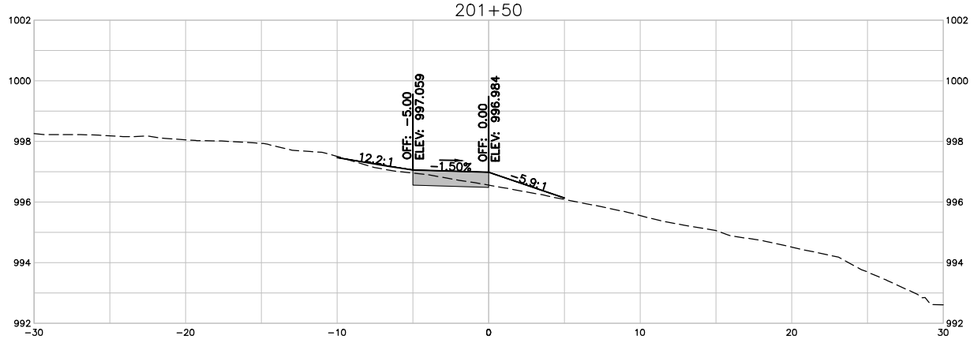
200+50



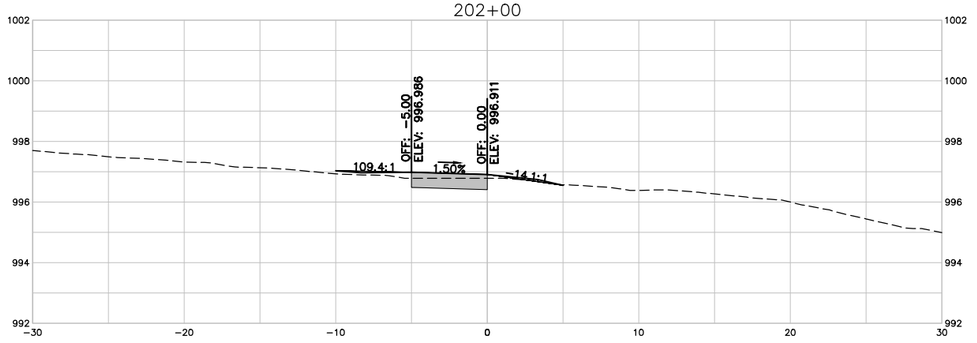
201+00



201+50



202+00



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19TH STREET TRAIL
CITY OF NEVADA
NEVADA, IA

CROSS SECTIONS
SHARED USE PATH AND FIELD HOUSE WALK

SHEET NO.
W.16

Xrefs: XV-D-AERIAL; XC-1-DSGN; xg1-1-dh01