

Project Manual

Oliver Lake Drainage District Main & Lateral Nos. 2 & 3 Open Ditch Repairs

Monona County, Iowa
2026

	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. <u>Jacob L. Hagan</u> <u>8/28/26</u> Jacob L. Hagan, P.E. (date) License No. 25738 My license renewal date is December 31, 2026. Pages or sheets covered by this seal: <u>All</u>
	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. <u>Tyler Buman</u> <u>8/28/26</u> Tyler J. Buman, P.E. (date) License No. 30759 My license renewal date is December 31, 2027. Pages or sheets covered by this seal: <u>All</u>

Executive Summary

Project Title:

Oliver Lake Drainage District Main, & Lateral Nos. 2 & 3 Open Ditch Repairs, Monona County

Project Description:

The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18"–36" CMP surface drains with flap gates; and an 84" CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

Engineer Contact:

AgriVia
Jacob Hagan
712-250-4318
jacob.agrivia@gmail.com

Project Estimate:

Total Bid: \$470,000

Pre-Bid Meeting:

Time: September 9th, 2026 @ 11:00 A.M.
Location: 42.008209, -96.027483, 240th St, Onawa, IA
Attendance at the pre-bid meeting is not required.

Landowner Notice:

Letters will be sent to all landowners prior to staking. Landowners will receive official notice of completion.

Additional Information:

Drone Videos can be found on YouTube at <https://www.youtube.com/playlist?list=PLIkH6vsbphm4>

Bid Due:

Bids Due: September 22nd, 2026 @ 10:00 A.M.
Location: Monona County Drainage Office, Courthouse, 610 Iowa Ave, First Floor, Onawa, IA 51040

Bid Opening / Consideration:

Time: September 22nd, 2026 @ 10:00 A.M.
Location: Board Room of the Monona County Board of Supervisors at Courthouse, 610 Iowa Ave, Annex Basement, Onawa, IA (Board may consider bids at that time or a later meeting)

Contract Documents:

Available via AgriVia, 712-250-4318 or jacob.agrivia@gmail.com or download electronically at <https://www.agriviapl.com/bidding-opportunities>

Bid Security:

5% of the total bid amount.

Funding / Payment:

Funds on hand or Drainage Warrants issued by Drainage District per the decision of the Board of Trustees.
Monthly pay applications including stockpiled materials.
Retainage: 10%
Final payment follows Iowa Code 468.100-103 procedures.

Key Dates:

Commencement: Upon Notice to Proceed.
Final Completion: September 24, 2027.

Liquidated Damages:

\$500.00 per calendar day beyond the Final Completion date.

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NOTICE TO BIDDERS

For Open Ditch Repairs, Oliver Lake Drainage District, Monona County, Iowa

General Nature of Public Improvement: The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18"–36" CMP surface drains with flap gates; and an 84" CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

Time and Place for Filing Sealed Bids: Sealed bids for the work comprising the repairs as stated below must be filed before 10:00 A.M. on September 22nd, 2026 in the office of Monona County Drainage, Courthouse, 610 Iowa Ave, First Floor, Onawa, IA 51040

Time and Place Sealed Bids Will be Opened and Considered: Sealed bids will be opened and publicly read at 10:00 A.M. on September 22nd, 2026 in the Board Room of the Monona County Board of Supervisors at Courthouse, 610 Iowa Ave, Annex Basement, Onawa, IA. Bids will be considered by the Monona County Board of Supervisors/Trustees acting for Oliver Lake Drainage District at that time or at a later meeting. The Board reserves the right to reject any and all bids and to waive informalities.

Contract Documents: Copies of the project documents are available upon request via email from the Engineer, AgriVia at jacob.agrivia@gmail.com or electronically at <https://www.agriviapl.com/bidding-opportunities>. Bidders may view the digital plan documents for free by submitting the form on the website. Please contact AgriVia at 712-250-4318 or jacob.agrivia@gmail.com for assistance with registration and downloading. Optional paper sets may be obtained from the Engineer, AgriVia, PO Box 44, 1124 Willis Ave, Perry, Iowa, Phone: 712-250-4318, upon payment of a \$100.00 refundable deposit, provided the documents are returned complete and in good condition within fourteen (14) calendar days after the award of the project.

Bid Security: Each bid must be accompanied by bid security as defined in Iowa Code Section 468.35, in an amount equal to five percent (5%) of the total amount of the Bid (including all alternates). Bid security shall be in the form of a cashier's check, certified check drawn on an FDIC insured bank in Iowa or the United States, certified share draft drawn on a credit union in Iowa or the United States, or a Bid Bond on the form provided in the Bidding Documents, executed by a corporation authorized to contract as a surety in Iowa. Bid security must be filed in a separate, sealed envelope attached to the bid proposal envelope.

Iowa Contractor Registration and Bidder Status: All bidders must be registered with the Iowa Division of Labor Services prior to contract award (Iowa Code Chapter 91C). Bidders shall submit a completed State of Iowa Bidder Status Form with the bid proposal, per 875 Iowa Administrative Code Chapter 156. Failure to submit a fully completed Bidder Status Form may result in the bid being deemed non-responsive and rejected. Out-of-state bidders must comply with additional Iowa requirements.

Preference of Products and Labor: Preference shall be given to domestic construction materials and Iowa products, provisions, and labor to the extent lawfully required under Iowa Code Chapters 73 and 73A. Resident bidder preference applies as per Iowa Code Chapter 73A.

Sales Tax: The bidder shall not include Iowa sales tax in the bid. The Monona County Auditor will issue tax exemption certificates and authorization letters to the Contractor and qualifying subcontractors for the purchase of construction materials incorporated into this specific project.

Time for Commencement and Completion of Work: Work on the improvement shall commence upon approval of the contract by the Board and issuance of a written Notice to Proceed. All work under the Contract must be Fully Completed (Final Completion) no later than September 24, 2027.

Liquidated Damages: Liquidated damages in the amount of \$500.00 per calendar day will be assessed for each day the work remains incomplete beyond the specified completion dates, subject to authorized extensions.

Payment: Payment for work done will be made based on monthly estimates approved by the Engineer. Payments may be made in Drainage Warrants issued by the Drainage District. Registered warrants stamped "not paid for want of funds" shall bear interest at a rate fixed by the Board not to exceed the maximum set by law (Iowa Code Chapter 468). Progress payments will be made for ninety percent (90%) of the work completed, with ten percent (10%) retained per Iowa Code 468. Final payment and the release of retained funds will be made not less than thirty (30) days after completion and final acceptance of the work by the Board, subject to the conditions and procedures of Iowa Code Sections 468.100 through 468.103, including a final acceptance hearing. The Board reserves the right to issue Drainage District Improvement Certificates (Iowa Code Chapter 468).

Performance, Payment, and Maintenance Bond: The successful bidder will be required to furnish a combined Performance, Payment, and Maintenance Bond in an amount equal to one hundred percent (100%) of the contract price. Said bond shall be issued by a responsible surety authorized to do business in Iowa and approved by the Board. The bond guarantees faithful performance, payment of labor and materials per Iowa Code Chapter 573, and maintenance of the improvements against defects in materials and workmanship for a period of one (1) year from the date of final acceptance.

This Notice is given by authority of the Monona County Board of Supervisors/Trustees, acting for the Oliver Lake Drainage District.

By: Peggy Rolph, Monona County Auditor

INSTRUCTIONS TO BIDDERS

OLIVER LAKE DRAINAGE DISTRICT OPEN DITCH REPAIRS

The work comprising the above referenced project shall be constructed in accordance with the 2026 edition of the SUDAS Standard Specifications and as further modified by supplemental specifications and special provisions included in the contract documents. The terms used in the contract documents are defined in said Standard Specifications. Before submitting your bid, review the requirements of Division 1, General Provisions and Covenants, in particular the sections regarding proposal requirements, bonding, contract execution and insurance requirements. Be certain that all documents have been completed properly, as failure to complete and sign all documents and to comply with the requirements listed below can cause your bid not to be read.

BID SECURITY

The bid security must be in the minimum amount of 5% of the total bid amount including all add alternates (do not deduct the amount of deduct alternates). Bid security shall be in the form of a cashier's check or a certified check, drawn on an FDIC insured bank in Iowa or drawn on an FDIC insured bank chartered under the laws of the United States; or a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States; or a bid bond executed by a corporation authorized to contract as a surety in Iowa or satisfactory to the Jurisdiction. The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable. All signatures on the bid bond must be original signatures in ink; facsimile (fax) of any signature or use of an electronic signature on the bid bond is not acceptable. Bid security other than said bid bond shall be made payable to Oliver Lake Drainage District, Monona County. "Miscellaneous Bank Checks," and personal checks, as well as "Money Orders" and "Traveler's Checks" issued by persons, firms, or corporations licensed under Chapter 533C of the Iowa Code, are not acceptable bid security.

SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDER

The proposal shall be sealed in an envelope, properly identified as the Proposal with the project title and the name and address of the bidder, and deposited with the Jurisdiction at or before the time and at the place provided in the Notice to Bidders. It is the sole responsibility of the bidder to see that its proposal is delivered to the Jurisdiction prior to the time for opening bids, along with the appropriate bid security sealed in a separate envelope identified as Bid Security and attached to the outside of the bid proposal envelope. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered. If the Jurisdiction provides envelopes for proposals and bid security, bidders shall be required to utilize such envelopes in the submission of their bids.

The following documents shall be completed, signed, and returned in the Proposal envelope. The bid cannot be read if any of these documents are omitted from the Proposal envelope.

PROPOSAL – Complete each of the following parts:

- Part B – Acknowledgment of Addenda, if any have been issued
- Part C – Bid Items, Quantities, and Prices
- Part F – Additional Requirements

The following proposal attachments must be completed and attached:

Item No.	Description of Attachment
1.	None

- Part G – Identity of Bidder (including the Bidder Status Form)

Sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the Company Owner or an authorized Officer of the Company; copies or facsimile of any signature or electronic signatures will not be accepted.

The Bidder Status Form is required by the Iowa Labor Commissioner, pursuant to the Iowa Administrative Code rule 875-156.2(1). The Bidder must complete and submit the Bidder Status Form, signed by an authorized representative of the Bidder, with their bid proposal. Under Iowa Administrative Code rule 875-156.2(1), failure to provide the Bidder Status Form with the bid may result in the bid being deemed non-responsive and may result in the bid being rejected. The Worksheet: Authorized to Transact Business from the Labor Commissioner is included on the following page and can be used to assist Bidders in completing the Bidder Status Form.

Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

- ☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.
- ☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.
- ☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.
- ☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.
- ☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa Secretary of State, has filed its most recent biennial report with the Secretary of State, and has neither received a certificate of withdrawal from the Secretary of state nor had its authority revoked.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.
- ☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.
- ☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa Secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.
- ☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

PROPOSAL

The following documents must be submitted as printed. No alterations, additions, or deletions are allowed. If the Bidder notes a requirement in the contract documents that the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

PROPOSAL: PART A – SCOPE

Oliver Lake Drainage District, Monona County, hereinafter called the “Jurisdiction,” has need of a qualified contractor to complete the work comprising the below referenced improvement. The undersigned Bidder hereby proposes to complete the work comprising the below referenced improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the Monona County Drainage Office at the prices hereinafter provided in Part C of the Proposal, for the following described improvements:

PROJECT DESCRIPTION:

The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18"–36" CMP surface drains with flap gates; and an 84" CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued, and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

Addendum Number		Addendum Number	
Addendum Number		Addendum Number	

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS, QUANTITIES, AND PRICES

UNIT BID PRICE CONTRACTS:

The Bidder must provide the Unit Bid Price, the Total Bid Price, any Add-Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices are approximate only, but are considered sufficiently adequate for the purpose of comparing bids. The Total Construction Cost plus any alternates selected by the Jurisdiction, shall be used only for comparison of bids. The Total Construction Cost, including any Add-Alternates, shall be used for determining the sufficiency of the bid security.

BASE BID CONTRACTS:

The Bidder must provide any Bid Prices, any Alternate Prices, and the Total of the Base Bid plus any Add-Alternates on the Proposal Attachment: Part C – Bid Items, Quantities, and Prices. The Total of the Base Bid plus any Alternates selected by the Jurisdiction shall be used only for comparison of bids. The Total of the Base Bid plus any Add-Alternates shall be used for determining the sufficiency of the bid security.

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project, reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive bidder to be based on comparison of the total bid plus any selected alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work on this project on or before a date to be specified in a written notice to proceed by the Jurisdiction, and to fully complete the project; and to pay liquidated damages for noncompliance with said completion provisions at the rate of five hundred dollars (\$500) for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and
2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and
4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any bidder or person, to submit a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other bidder, and that all statements in this proposal are true; and
5. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below that are included in this proposal and identified as proposal attachments:

Item No.	Description of Attachment
1	None

PROPOSAL: PART G – IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

☐ Individual, Sole Proprietorship	_____
☐ Partnership	Bidder
☐ Corporation	_____
☐ Limited Liability Company	Signature
☐ Joint-venture: all parties must join-in and execute all documents	By _____
☐ Other	Name (Print/Type)

	Title

	Street Address

	City, State, Zip Code

	Telephone Number

**Type or print the name and title of the company's
owner, president, CEO, etc. if a different person
than entered above**

Failure to provide said Registration Number
shall result in the bid being read under
advisement. A contract will not be executed
until the Contractor is registered.

Name

Title

NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or electronic signatures will not be accepted.

All bidders must submit the following completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

Bidder Status Form

To be completed by all bidders

Part A

Please answer "Yes" or "No" for each of the following:

- ☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet included in the bidding documents).
- ☐ Yes ☐ No My company has an office to transact business in Iowa.
- ☐ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.
- ☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.
- ☐ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a non-resident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders

Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ To _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ To _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ To _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders

Part C

- Name of home state or foreign country reported to the Iowa Secretary of State: _____
- Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No
- If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

You may attach additional sheet(s) if needed.

To be completed by all bidders

Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: _____

Signature: _____ Date: _____

PROPOSAL ATTACHMENT: PART C – BID ITEMS, QUANTITIES, AND PRICES

This is a UNIT BID PRICE CONTRACT. The bidder must provide the Unit Bid Price(s) for Part C – Bid Items, Quantities, and Prices. The Unit Price shall govern the total amount for each bid item. The total of the Bid shall be used for determining the sufficiency of the bid security.

DIVISION 1 BID ITEMS- WORK ON PRIVATE LANDS					
ITEM NO.	DESCRIPTION	ESTIMATED UNITS	UNIT	UNIT PRICE	AMOUNT
101	EXCAVATION	37,000	CY	\$	\$
102	SPOIL LEVELING	396	STA	\$	\$
103	OPEN DITCH SLOPE TEMPORARY COVER CROP SEEDING	396	STA	\$	\$
104	OPEN DITCH PERMANENT SEEDING (HYDRAULIC SEEDING)	396	STA	\$	\$
105	SPOIL TILLAGE AND ROCK PICK- UP	396	STA	\$	\$
106	OPEN DITCH SPOIL COVER CROP SEEDING	396	STA	\$	\$
107	SURFACE DRAIN, 18" CMP	770	LF	\$	\$
108	SURFACE DRAIN, 24" CMP	100	LF	\$	\$
109	SURFACE DRAIN, 30" CMP	60	LF	\$	\$
110	SURFACE DRAIN, 36" CMP	60	LF	\$	\$
111	FLAP GATE, 18"	5	EA	\$	\$
112	FLAP GATE, 24"	2	EA	\$	\$
113	FLAP GATE, 36"	1	EA	\$	\$
114	SEDIMENT BAFFLE	1	LS	\$	\$
115	CLEARING & GRUBBING	1	LS	\$	\$
115	MOBILIZATION	1	LS	\$	\$
TOTAL DIVISION 1 BID					\$

DIVISION 2 BID ITEMS-MONONA COUNTY SECONDARY ROADS					
ITEM NO.	DESCRIPTION	ESTIMATED UNITS	UNIT	UNIT PRICE	AMOUNT
201	PIPE CULVERT, 84" CMP, REMOVE, ROTATE AND RELAY	72	LF	\$	\$
202	TRAFFIC CONTROL	1	EA	\$	\$
203	MOBILIZATION	1	LS	\$	\$
TOTAL DIVISION 2 BID					\$

DIVISION 1 & DIVISION 2 TOTAL BID					
TOTAL BID					\$

NOTE:

Due to the inherent variability of Drainage District construction, the quantities provided herein are estimates for bidding purposes only. Quantity changes that amount to 20% or less of the amount bid shall not affect the unit bid price.

BID BOND

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto _____, as Oblige, (hereinafter referred to as "the Jurisdiction"), in the penal sum of _____ dollars (\$_____), lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following described improvements;

General Nature of Public Improvement: The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18"–36" CMP surface drains with flap gates; and an 84" CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Monona County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against Surety for any amount guaranteed hereunder whether action is brought against Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 20____.

SURETY:

By _____
Surety Company

Signature Attorney-in-Fact/Officer

Printed Name of Attorney-in-Fact/Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

PRINCIPAL:

By _____
Bidder

Signature

Printed Name

Title

Address

City, State, Zip Code

Telephone Number

NOTE: All signatures on this bid bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted. This bond must be sealed with the Surety's raised, embossing seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.

NOTICE OF AWARD

To:

[Contractor Name]

[Contractor Address]

Re:

[Project Name]

[Project No.]

Dear Contractor:

The Board of Trustees has completed its review of bids received for the above-referenced public improvement project. Based on this review, your proposal has been determined to be the lowest responsive and responsible bid and is hereby accepted.

The total contract amount is \$_____.

This Notice of Award authorizes you to proceed with execution of the formal contract. Within fifteen (15) calendar days of receipt of this notice, you are required to return the executed contract and submit all documents required by the bidding and contract documents, including performance and payment bonds and proof of insurance.

If the required documents are not received within the time stated, the Owner may withdraw this award, retain the bid security as allowed by law, and proceed with award of the project to another bidder or take other action permitted under Iowa law.

Enclosed are three (3) copies of the Contract for execution. Please return all signed copies along with the required bonds, insurance certificate, and a list of subcontractors. The subcontractor list shall include the company name, address, telephone number, and federal tax identification number, as applicable for public contracting and tax purposes.

If you have questions regarding this Notice of Award or the contract requirements, please contact AgriVia at 712-250-4318 or jacob.agrivia@gmail.com

Dated this _____ day of _____, 2026.

CONTRACT

THIS CONTRACT, made and entered into at _____ this _____ day of 2026, by and between the Oliver Lake Drainage District, Monona County, Iowa hereinafter called the "Jurisdiction," and _____ hereinafter called the "Contractor."

WITNESSETH:

The Contractor hereby agrees to complete the work comprising the below referenced improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the Monona County Auditor's Office. This contract includes all contract documents. The work under this contract shall be constructed in accordance with the SUDAS Standard Specifications, 2026 Edition, and as further modified by the supplemental specifications and special provisions included in said contract documents, and the Contract Attachment - Item 1: General, which is attached hereto. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law, for the time required in said contract documents, after its acceptance by the Jurisdiction.

This contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment - Item 2: Bid Items, Quantities, and Prices, which were proposed by the Contractor in its proposal submitted in accordance with the Notice to Bidders and Notice of Public Hearing for the following described improvements:

General Nature of Public Improvement: The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18"–36" CMP surface drains with flap gates; and an 84" CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

The Contractor agrees to perform said work for and in consideration of the Jurisdiction's payment of the bid amount of _____ dollars (\$_____) which amount shall constitute the required amount of the performance, maintenance, and payment bond. The Contractor hereby agrees to commence work under this contract on or before a date to be specified in a written notice to proceed by the Jurisdiction and to fully complete the project no later than September 24, 2027; and to pay liquidated damages for noncompliance with said completion provisions at the rate of Five Hundred dollars (\$500) for each calendar day thereafter that the work remains incomplete.

IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

JURISDICTION

CONTRACTOR

By _____
County Board Chairman

Contractor

(Seal)
ATTEST:

By _____
Signature

County Auditor

Title

Street Address

City, State, Zip Code

Telephone

CONTRACTOR PUBLIC REGISTRATION INFORMATION To Be Provided By:

1. All Contractors: The Contractor shall enter its Public Registration Number ____ - ____ issued by the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code.
2. Out-of-State Contractors:
 - a. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the division of labor services of the department of workforce development. It is the contractor's responsibility to comply with said Section 91C.7 before commencing this work.
 - b. Prior to entering into contract, the designated low bidder, if it is a corporation organized under the laws of a state other than Iowa, shall file with the Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Iowa Code, or as amended, governing foreign corporations.

NOTE: All signatures on this contract must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.

CORPORATE ACKNOWLEDGMENT

State of _____)
 _____) SS
 _____ County)

On this ____ day of _____, 20____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known, who, being by me duly sworn, did say that they are the _____, and _____, respectively, of the corporation executing the foregoing instrument; that (no seal has been procured by) (the seal affixed thereto is the seal of) the corporation; that said instrument was signed (and sealed) on behalf of the corporation by authority of this Board of Directors; that _____ and _____ acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

 Notary Public in and for the State of _____
 My commission expires _____, 20 _____

PARTNERSHIP ACKNOWLEDGMENT

State of _____)
 _____) SS
 _____ County)

On this ____ day of _____, 20____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ to me personally known, who being by me duly sworn, did say that the person is one of the partners of _____, a partnership, and that the instrument was signed on behalf of the partnership by authority of the partners and the partner acknowledged the execution of the instrument to be the voluntary act and deed of the partnership by it and by the partner voluntarily executed.

 Notary Public in and for the State of _____
 My commission expires _____, 20 _____

INDIVIDUAL ACKNOWLEDGMENT

State of _____)
 _____) SS
 _____ County)

On this _____ day of _____, 20____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known to be the identical person(s) named in and who executed the foregoing instrument, and acknowledged that (he) (she) (they) executed the instrument as (his) (her) (their) voluntary act and deed.

 Notary Public in and for the State of _____
 My commission expires _____, 20_____

LIMITED LIABILITY COMPANY ACKNOWLEDGMENT

State of _____)
 _____) SS
 _____ County)

On this _____ day of _____, 20____, before me a Notary Public in and for said county, personally appeared _____, to me personally known, who being by me duly sworn did say that person is _____ of said _____, that (the seal affixed to said instrument is the seal of said OR no seal has been procured by the said) _____, and that said instrument was signed and sealed on behalf of the said _____, by authority of its managers and the said _____ acknowledged the execution of said instrument to be the voluntary act and deed of said _____, by it voluntarily executed.

 Notary Public in and for the State of _____
 My commission expires _____, 20_____

CONTRACT ATTACHMENT: ITEM 1 – GENERAL- None**CONTRACT ATTACHMENT: ITEM 2 - BID ITEMS AND QUANTITIES**

This contract is awarded and executed for completion of the work specified in the contract documents for the bid prices tabulated below as proposed by the Contractor in its proposal submitted in accordance with notice to bidders and notice of public hearing. All quantities are subject to revision by the Jurisdiction. Quantity changes that amount to 20% or less of the amount bid shall not affect the unit bid price.

DIVISION 1 BID ITEMS- WORK ON PRIVATE LANDS					
ITEM NO.	DESCRIPTION	ESTIMATED UNITS	UNIT	UNIT PRICE	AMOUNT
101	EXCAVATION	37,000	CY	\$	\$
102	SPOIL LEVELING	396	STA	\$	\$
103	OPEN DITCH SLOPE TEMPORARY COVER CROP SEEDING	396	STA	\$	\$
104	OPEN DITCH PERMANENT SEEDING (HYDRAULIC SEEDING)	396	STA	\$	\$
105	SPOIL TILLAGE AND ROCK PICK- UP	396	STA	\$	\$
106	OPEN DITCH SPOIL COVER CROP SEEDING	396	STA	\$	\$
107	SURFACE DRAIN, 18" CMP	770	LF	\$	\$
108	SURFACE DRAIN, 24" CMP	100	LF	\$	\$
109	SURFACE DRAIN, 30" CMP	60	LF	\$	\$
110	SURFACE DRAIN, 36" CMP	60	LF	\$	\$
111	FLAP GATE, 18"	5	EA	\$	\$
112	FLAP GATE, 24"	2	EA	\$	\$
113	FLAP GATE, 36"	1	EA	\$	\$
114	SEDIMENT BAFFLE	1	LS	\$	\$
115	CLEARING & GRUBBING	1	LS	\$	\$
115	MOBILIZATION	1	LS	\$	\$
TOTAL DIVISION 1 BID					\$

DIVISION 2 BID ITEMS-MONONA COUNTY SECONDARY ROADS					
ITEM NO.	DESCRIPTION	ESTIMATED UNITS	UNIT	UNIT PRICE	AMOUNT
201	PIPE CULVERT, 84" CMP, OPEN CUT	72	LF	\$	\$
202	TRAFFIC CONTROL	1	EA	\$	\$
203	MOBILIZATION	1	LS	\$	\$
TOTAL DIVISION 2 BID					\$

DIVISION 1 & DIVISION 2 TOTAL BID					
TOTAL BID					\$

SURETY BOND NO. _____

PERFORMANCE, PAYMENT, AND MAINTENANCE BOND

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the “Contractor” or “Principal” and _____, as Surety are held and firmly bound unto _____, as Oblige (hereinafter referred to as “the Jurisdiction”), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____ dollars (\$ _____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Contractor entered into a contract with the Jurisdiction, bearing date the _____ day of _____, 2026, hereinafter the “Contract”) wherein said Contractor undertakes and agrees to construct the following described improvements:

General Nature of Public Improvement: The project consists of open ditch repairs to the Oliver Lake Drainage District Main, Lateral No. 2, and Lateral No. 3 in Monona County, Iowa. Work includes approximately 37,000 CY of ditch excavation with spoil leveling, tillage, and seeding across 396 stations; approximately 990 LF of 18”–36” CMP surface drains with flap gates; and an 84” CMP pipe culvert within Monona County secondary road right-of-way. The project shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the plans and specifications.

and to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract Documents. Provided, however, that one year after the date of acceptance as complete of the work under the above referenced Contract, the maintenance portion of this Bond shall continue in force but the penal sum for the remaining maintenance period.

It is expressly understood and agreed by the Contractor and Surety in this bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

1. **PERFORMANCE:** The Contractor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the above referenced improvements, and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor’s default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.
2. **PAYMENT:** The Contractor and the Surety on this Bond hereby agreed to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment, and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the contract price shall have been established as provided by law. The

Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573 of the Iowa Code, which by this reference is made a part hereof as though fully set out herein.

3. MAINTENANCE: The Contractor and the Surety on this Bond hereby agree, at their own expense:

- a. To remedy any and all defects that may develop in or result from all work except new paving to be performed under the Contract within the period of 1 year from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work; and
- b. To keep all work in continuous good repair; and
- c. To pay the Jurisdiction's reasonable costs of monitoring and inspection to assure that any defects are remedied, and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.
- d. Maintenance bond requirements shall not apply to the following: work that is not permanently incorporated into the project, pavement markings, seeding, sodding, and plant material and planting.

4. GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

- a. To consent without notice to any extension of time to the Contractor in which to perform the Contract;
- b. To consent without notice to any change in the Contract or Contract Documents, which thereby increases the total contract price and the penal sum of this bond, provided that all such changes do not, in the aggregate, involve an increase of more than 20% of the total contract price, and that this bond shall then be released as to such excess increase; and
- c. To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Contractor.
- d. That no provision of this Bond or of any other contract shall be valid that limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.
- e. That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits, and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorneys' fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully

indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Jurisdiction incurs any “outlay and expense” in defending itself against any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety’s obligation under this bond shall not exceed 125% of the penal sum of this bond.

In the event that any actions or proceedings are initiated regarding this Bond, the parties agree that the venue thereof shall be Monona County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Contractor and the Surety agree, jointly, and severally, to pay the Jurisdiction all outlay and expense incurred therefor by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether Contractor is joined in any such action(s) or not.

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a word, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

PRINCIPAL:

Contractor

By _____
Signature

Title

SURETY:

Surety Company

By _____
Signature Attorney-in-Fact Officer

Printed Name of Attorney-in-Fact Officer

FORM APPROVED BY:

Attorney for Jurisdiction

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

NOTE:

- 1. All signatures on this performance, payment, and maintenance bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.**
- 2. This bond must be sealed with the Surety's raised, embossing seal.**
- 3. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.**
- 4. The name and signature of the Surety's Attorney-in-Fact/Officer entered on this bond must be exactly as listed on the Certificate or Power of Attorney accompanying this bond.**

NOTICE TO PROCEED

To:

[Contractor Name]

[Contractor Address]

Re:

[Project Name]

[Project No.]

Dear Contractor:

This letter serves as formal Notice to Proceed for the above-referenced public improvement project.

The Owner hereby authorizes you to begin work in accordance with the terms of the Contract and related contract documents dated _____. The Contract Time shall commence on the date of this Notice to Proceed, unless otherwise stated in the Contract Documents.

All work shall be performed in compliance with the Agreement, plans, specifications, and applicable laws and regulations. The project shall be substantially and finally completed within the time limits set forth in the Contract.

If you have questions regarding this Notice to Proceed or the contract requirements, please contact AgriVia at 712-250-4318 or jacob.agrivia@gmail.com

Dated this _____ day of _____, 2026.

Supplementary Specifications for **Open Ditch Repairs**

AgriVia
2026

GENERAL CONDITIONS

The General Conditions for this project shall be Division 1 - General Provisions and Covenants of the Iowa Statewide Urban Design and Specifications (SUDAS), 2026 Edition.

These standard specifications are incorporated herein by reference and are not physically attached to this Project Manual. Bidders are responsible for obtaining and familiarizing themselves with the SUDAS Standard Specifications, 2026 Edition. Iowa DOT Series 2023 applies where specifically cited.

The General Conditions are amended and supplemented by the Supplementary Conditions contained in this Project Manual. In case of conflict between the General Conditions and the Supplementary Conditions, the Supplementary Conditions shall govern.

SUPPLEMENTARY CONDITIONS

These Supplementary Specifications amend and supplement the SUDAS Standard Specifications, 2026 Edition (hereinafter "SUDAS"). Where provisions of these Supplementary Specifications conflict with SUDAS, these Supplementary Specifications shall govern.

Any notes or details on the Construction Plans shall govern when in conflict with these Supplementary Specifications.

Division 1: General Provisions and Covenants

Section 1020 - Proposal Requirements and Conditions

Supplement Section 1020, 1.09 "Preparation of the Proposal" by adding the following:

- B. A computer-generated unit price attachment may be submitted by the Bidder as specified in SUDAS Section 1020, 1.09.B

Section 1040 - Scope of Work

Amend Section 1040, 1.09 "Changed Site Conditions" by adding the following:

- C. **Unknown Subsurface Tile:** The presence of unknown, unmapped, or incorrectly located subsurface private or district tile lines shall not be considered a "latent or subsurface condition" differing materially from those indicated.

Section 1050 - Control of Work

Amend Section 1050, 1.10C "Line and Grade Stakes" by adding the following:

- C. The cost of correcting or replacing such stakes will be charged to the Contractor at a fixed rate of \$200.00 per hour, including travel time. This amount will be deducted from any monies due to the Contractor.

Section 1060 - Control of Materials

Amend Section 1060, 1.03 "Samples and Testing" by adding the following:

- D. **Cost of Testing:** All material testing required by the contract documents, including but not limited to gradation, compaction, and material certifications, shall be considered incidental and paid for by the Contractor. The Contractor shall retain an independent testing laboratory approved by the Engineer and shall provide all test results to the Engineer.
- E. **Retesting:** If test results do not meet the specifications, the Contractor shall make the necessary corrections and pay all costs for retesting to demonstrate compliance.

Section 1070 - Legal Relations and Responsibility to the Public

Amend Section 1070, 1.03 "Permits and Licenses" by adding the following:

- A. **Permits Obtained by Owner:** The Owner (Drainage District) will be responsible for obtaining and paying for the primary environmental and jurisdictional permits necessary for the project footprint, typically including:
 - a. Iowa DNR Section 401 Water Quality Certification / US Army Corps of Engineers Section 404 Permit (if applicable).
 - b. Iowa DNR NPDES General Permit No. 2 for Storm Water Discharge (if applicable). Contractor remains responsible for SWPPP implementation and updates (if applicable).
 - c. Any necessary Drainage District establishment or modification orders.

- B. Permits Obtained by Contractor:** The Contractor shall be responsible for obtaining and paying for all other permits, licenses, and fees required for the execution of the work, including but not limited to:
- County or IDOT permits for work within road rights-of-way (e.g., utility, entrance, oversize/overweight load permits). The cost for jurisdictional permits required solely for access or construction methods chosen by the contractor shall be borne by the contractor.
 - Railroad crossing permits or flagger coordination fees (unless explicitly stated otherwise).
 - Local building or miscellaneous permits.
 - Contractor and vehicle licensing.

Amend Section 1070, 2.08 "Protection of Property" by adding the following:

- D. Damage Outside Work Area:** The Contractor shall confine all operations, equipment, and material storage to the designated Work Area. Any damage caused by the Contractor's operations to crops, fences, private tile, or other private property outside the designated Work Area shall be the sole responsibility of the Contractor. Crop damages outside the Work Area will be calculated the same way as crop damages within the Work Area; however, the amount to be paid will be deducted from the contractor's final payment.
- E. Damage Inside Work Area:** It is understood that construction activities will cause damage to crops, fences, and other property within the designated Work Area. The district will compensate landowners for damage within the Work Area including damaged crop, and compaction damages. Contractor shall be responsible for excessive damages due to failure to follow specifications or best practices such as but not limited to erosion, rocks, and excessive soil mixing.

Section 1080 - Prosecution and Progress

Amend Section 1080, 1.03B "Work Progress and Schedule" deleting it in its entirety and replacing it with the following:

- B.** At or before the preconstruction meeting, the Contractor shall prepare and submit to the Engineer for approval a progress schedule that will ensure the completion of the project within the time specified. Adequate equipment and forces shall be made available by the Contractor to start work to completion according to schedule and within the time specified. Work shall be completed in each Township Mile Section before starting work in the next Township Mile Section. Work shall progress so the entire work area is not all disturbed and unfinished at the same time

Amend Section 1080, 1.07 "Work on Sundays or Legal Holidays" by deleting it in its entirety and replacing it with the following:

Work is permitted on Sundays and holidays. However, if the Contractor's operations on these days will require inspection by the Engineer, the Contractor shall provide the Engineer with a minimum 48-hour notice.

Amend Section 1080, 1.08 "Temporary Suspension of Working Days" by adding the following:

In addition to the reasons stated, the Engineer shall have the authority to order a temporary suspension of work, wholly or in part, due to saturated soil conditions or to accommodate essential farming operations (such as planting or harvesting) by affected landowners. Such suspensions, if they affect the controlling item of work, will not be charged as working days.

Section 1090 - Measurement and Payment

Amend Section 1090, 1.05B "Progress Payments" deleting it in its entirety and replacing it with the following:

- B. Retainage:** The Jurisdiction shall retain from each monthly progress payment 10% of the amount determined to be due according to the estimate of the Engineer.

Amend Section 1090, 1.06 "Payment of Retainage" and 1.08 "Acceptance and Final Payment" by deleting them in their entirety and replacing them with the following:

1.08 FINAL ACCEPTANCE AND PAYMENT

- A. Governing Authority:** The procedures for final acceptance and the release of retained funds shall be governed by Iowa Code Sections 468.100 through 468.103, which shall supersede any conflicting provisions in the contract documents.
- B. Acceptance Process:** Upon certification by the Engineer that the work is complete, the Board shall hold a public hearing on the acceptance of the work as required by Iowa Code 468.101.
- C. Release of Payment:** Final payment and the release of retained funds shall not be made until at least thirty (30) days after the Board's formal acceptance of the work by resolution. No portion of the retainage shall be released early or upon substantial completion.
- D. Claims:** Any claims for damages must be filed with the Board at or before the completion hearing. The Board may pay for verified damages resulting from Contractor negligence from the funds due to the Contractor.
- E. Form of Payment:** Payment will be made against the funds of the Drainage District held by the County Treasurer. Payment will typically be issued in the form of Drainage Warrants as provided by Iowa Code Chapter 468. However, at the County's discretion, payment may be issued via county check drawn against said fund. If payment is made by warrant and funds are not sufficient for immediate payment upon presentation, warrants shall be stamped 'not paid for want of funds' by the Treasurer and shall thereafter bear interest at a rate fixed by the Board in accordance with Iowa Code Chapter 468.

Add new Section 1.09 – Incidental Work Items

1.09 INCIDENTAL WORK ITEMS

The following work items are considered incidental to the project unless there is a specific bid item for the work. Their costs shall be included in unit prices developed by the Bidder. This list is intended to assist the Contractor in delineating incidental work, but is not all inclusive:

A. Earthwork and Site Preparation:

- Discing the entire Work Area prior to cover crop seeding following leveling, picking up and disposal of all rock 4" and larger, brush and other debris and releveling as necessary.
- Disposing of construction rubble, concrete, asphalt, trees, brush and all other excess excavated material.
- Cleanup of site and disposal of construction materials upon completion of project.

- d) Care to not damage ETR (existing to remain) pipes and structures called out on plans. Any damage to these structures or pipes shall be at the contractor's expense.

B. Documentation & Submittals:

- a) Providing the Engineer with set of drawings suitably marked to show any deviations from the original set of drawings.
- b) Providing a time-stamped and GPS-located photograph to the Engineer showing each tile connection before it is backfilled. Showing the size and material of each tile connected.
- c) Providing a time-stamped and GPS-located photograph to the Engineer showing each surface drain installed before it was backfilled.
- d) Providing the Engineer all rock tickets for all rock used including where rock is listed as incidental.

C. Traffic Control & Site Access:

- a) Removal and replacement of street signs, fences, etc.
- b) Installing and maintaining all signing, including road closures.
- c) Flagmen for traffic control and notifications to adjoining property owners of temporary road closures.
- d) Coordination time while shutting down utility services or temporarily closing a portion of any street or driveway.

D. Erosion & Environmental Controls:

- a) Erosion and Pollution Control following best management practices to minimize erosion and pollution. Any specific erosion control measures such as silt fence shall be paid as bid item.
- b) Maintenance of erosion control measures, including silt removal.
- c) Dewatering unless directed by the Engineer.

E. Coordination & Project Management:

- a) Coordination and cooperation with affected property owners, County, utility companies, other contractors, and with other projects in the area.
- b) Completing a One Call request. Protection of existing utilities.
- c) Temporary sheeting and shoring.
- d) Construction staging and phasing.

Division 2 – Earthwork, Subgrade, and Subbase

Section 2010 – Earthwork, Subgrade, and Subbase

Amend SUDAS 2010, 1.08, D (Topsoil) by deleting it in its entirety and replacing it with the following:

- D. Topsoil:** This work shall be considered incidental to other contract items, and no separate payment will be made. Topsoil will not be stripped; ditch spoil will be spread on top of existing topsoil.

Add new subsection SUDAS 2010, 1.08, N:

N. Open Ditch Excavation:

1. **Measurement:** Measurement will be in cubic yards, as specified for Class 10 or Class 13 Excavation.
2. **Payment:** Payment will be at the unit price per cubic yard. No actual measurement will be taken. Quantity will be as shown on bidding documents. Progress payments will be made using the Volume Table.
3. **Includes:** Unit price includes, but is not limited to, excavation as specified in Section 2010, 3.03 as amended; placement of spoil material adjacent to the ditch; disposal of unsuitable material (unless paid separately); shaping, trimming; and incidental removal of obstructions such as trash, glacial rocks, and debris. Construction of access roads, overhaul, over-excavation, removal of minor ditch bank sloughs islands, and meanders, and excavation to allow for placement of revetment, patrolling for sediment and removal in reaches previously cleaned, and finish shaping and sloping of the channel. Includes cleaning out culverts and under bridges. Includes furnishing all equipment, tools, labor and incidentals necessary to complete the work.

Add new subsection SUDAS 2010, 1.08, O:

O. Spoil Leveling:

1. **Measurement:** Measurement will be in stations (STA) along the centerline of the excavated open ditch where spoil has been placed and leveled.
2. **Payment:** Payment will be at the unit price per station.
3. **Includes:** Unit price includes, but is not limited to, all labor and equipment required to spread, shape, allow for drying, track, finish, and blend the spoil material as specified in Section 2010, 3.04 as amended.

Add new subsection SUDAS 2010, 1.08, P:

P. Spoil Tillage and Rock Pick Up:

1. **Measurement:** Measurement will be in stations (STA) along the centerline of the excavated open ditch where spoil has been tilled and rocks picked up.

2. **Payment:** Payment will be at the unit price per station.
3. **Includes:** Unit price includes, but is not limited to, all labor and equipment required to deep till the spoil material a minimum of 6" deep two (2) times, and two (2) passes of picking up all rocks larger than a softball within the Work Area. Contractor shall call engineer before and after rock pick up for inspection. Rocks may be stockpiled and used as riprap, buried or the contractor may haul off site at their discretion. Any rocks to be used as riprap will require the engineer to make a visual inspection of quality and quantity. Engineer may reject any rocks he deems unfit for riprap. Stockpiled rocks used as riprap will be paid under riprap bid item.

Add new subsection SUDAS 2010, 1.08, Q:

Q. Excavation, Exploratory:

1. **Measurement:** Measurement will be in hours per tile locating crew.
2. **Payment:** Payment will be at the unit price per hour.
3. **Includes:** Unit price includes, but is not limited to, all labor and equipment required to excavate tile or unknown underground conditions, check flowline and condition, and mobilize to and from various exploratory sites as directed by Engineer. Includes a crew consisting of an excavator, and trench man as needed to probe for tile. Includes repairing any tile broken during the process as incidental.

Add new subsection SUDAS 2010, 1.08, R:

R. Rock Chute:

1. **Measurement:** Measurement will be for each constructed.
2. **Payment:** Payment will be at the unit price per each.
3. **Includes:** Unit price includes, but is not limited to, all labor and equipment required to excavate, shape, and construct a rock chute and dispose any soil excavated. Includes removing and disposing of any tile or pipes in that location. Does not include Rip Rap, which will be paid under the Rip Rap bid item. Includes repairing any tile broken during the process as incidental.

Amend SUDAS 2010, 3.01, D (Disposal) by adding the following:

- D. **Disposal:** Materials from clearing and grubbing, including trees, brush, and rubbish, may be disposed of by burial within the project Work Area, provided a minimum of four (4) feet of soil cover is achieved over the buried material. Large woody debris (defined as material >6 inches in diameter) shall be burned prior to burial. Burning operations must comply with all state and local regulations and safety requirements. The Contractor is responsible for obtaining any necessary burn permits and must notify the local fire chief prior to commencing burning. Unattended burning is prohibited. Rocks generated from clearing and grubbing may be salvaged by the Contractor, and stockpiled. Spoil and debris shall be managed to prevent material from washing or blowing back into cleared areas or waterways.

Amend SUDAS 2010, 3.02, A (Stripping and Salvaging) by adding the following:

No topsoil stripping, stockpiling, and replacement shall be required for the work.

Supplement SUDAS 2010, 3.03 (Excavation) by adding the following:

- J. **Open Ditch Excavation:** For open ditch excavation, work shall generally begin at the downstream end of the designated ditch segment and proceed upstream from both sides of the open ditch, unless otherwise approved by the Engineer. Excavated material (spoil) shall be placed along both top bank(s) as designated on the plans or directed by the Engineer, taking care to prevent material from spilling or washing back into the excavated channel prior to drying and leveling.

Amend SUDAS 2010, 3.04 (Embankment Construction) by replacing paragraphs D and E with the following:

- D. **Spoil Leveling:** Spoil material placed along the top bank(s) shall be spread and leveled to achieve a reasonably uniform grade and slope, free of abrupt mounds or depressions, promoting stability and future maintenance. Spoil material shall be allowed to dry sufficiently (as determined by the Engineer) before final leveling operations to prevent sloughing or washing back into the ditch.
- E. **Compaction:** Compaction of spoil material shall be achieved primarily by tracking the material with equipment treads/tires during the leveling process. Specific moisture conditioning and density testing (e.g., Proctor testing, nuclear density testing) are waived for spoil leveling unless specifically noted on the plans (e.g., for embankments, under roadways, or structures). The intent is to place the material without significant voids. The edges of the leveled spoil banks shall be blended into the adjacent ground to provide a smooth transition.

Division 4 – Sewers and Drains

Section 4030 – Pipe Culverts

Amend SUDAS 4030, 1.08, A (Pipe Culverts) by adding the following:

J. Surface Drain Pipe:

1. **Measurement:** Measurement will be in linear feet for the specified type and size of Surface Drain Pipe.
2. **Payment:** Payment will be at the unit price per linear foot of each type and size of pipe.
3. **Includes:** Unit price includes furnishing and installing the CMP pipe for surface water conveyance to the open ditch (this item does not include intakes, which are paid separately). Payment includes removal and disposal of existing surface drain, excavation, bedding, backfill, installation. A log of all surface drain pipes is to be submitted to engineer prior to payment. Payment includes installing a 2" x 10' tall PVC pipe placed over a 6' steel T-post to serve as a marker. No outlet or inlet erosion protection is required.

K. Tile Outlet:

1. **Measurement:** Measurement will be in linear feet for the specified type and size of Tile Outlet Pipe.
2. **Payment:** Payment will be at the unit price per linear foot of each type and size of pipe.
3. **Includes:** Unit price includes all labor and materials to connect to an existing tile line, furnish and install a new outlet pipe section (CMP, 20 ft as specified), furnish and install all necessary excavation, bedding, and backfill. Includes relaying or repairing the existing tile to make a good concrete collared connection. Any length of HPDE tile used to make a good connection is a separate bid item. A log of all HDPE used per connection will need to be submitted. A log of all HDPE used per connection will need to be submitted. A log of all connections is to be submitted to engineer prior to payment. Payment includes installing a 2" x 10' tall PVC pipe placed over a 6' steel T-post to serve as a marker. No outlet or inlet erosion protection is required.

L. Flap Gates:

1. **Measurement:** Each type and size of flap gate installed will be counted.
2. **Payment:** Payment will be at the unit price for each type and size of flap gate.
3. **Includes:** Unit price includes, but is not limited to, field verification of the outside diameter of the pipe prior to ordering; furnishing and installing the flap gate, mounting band, and all bolts, nuts, and hardware; any trimming or preparation of the pipe end required to seat the band; adjusting the pipe outlet grade as necessary to allow the flap to swing free and fully open; and repair of any damage to the pipe or flap gate coating caused by handling or installation. A log of all flap gates installed, by location and size, is to be submitted to the Engineer prior to payment. No separate payment will be made for the pipe or band.

Amend SUDAS 4030, 2.01, (Pipe Culverts) by adding the following:

E. Surface Drain Pipes and Tile Outlets: Surface Drain Pipes and/or Tile Outlets shall be Corrugated Metal Pipe (CMP) as described in SUDAS Section 4020. No other pipe culvert type may be used.

Add new Subsection SUDAS 4030, 2.05:

2.05 FLAP GATES

1. Furnish heavy duty, dual-hinged flap gates as manufactured by Agri Drain Corporation, Adair, Iowa, or approved equal.
2. Construct the flap of steel not less than 3/16 inch thick with a factory-applied powder coat finish.
3. Furnish each flap gate with a mounting band sized to the actual outside diameter of the pipe on which it is installed, within the manufacturer's published range of measurements for that flap gate size. Flap gates are available in nominal sizes 6 inches through 36 inches. Flap gates shall be installed on Corrugated Metal Pipe (CMP) or PVC only. Flap gates shall not be installed on corrugated plastic tubing.

Amend SUDAS 4030, 3.01, 2, b (Pipe Culvert Installation) by adding the following:

- b. No granular bedding material is required for Surface Drains or Tile Outlet pipes.

Add new subsection SUDAS 4030, 3.04:

3.04 FLAP GATES

- A. Install flap gates at the locations shown on the plans or as directed by the Engineer, according to the manufacturer's recommendations.
- B. Install so the flap swings freely through its full range of travel. Trim, shape, or regrade the outlet so the bottom of the flap clears the ditch bottom, spoil, and vegetation at all times.

Section 4040 – Subdrains and Footing Drain Collectors

Amend SUDAS 4040, 1.01 (Section Includes) by adding the following:

- E.** This section shall only apply to perforated subdrains if explicitly called for on the plans. Drainage District tile is specified in Section 4020.

Division 9 – Site Work and Landscaping

Section 9010 – Seeding

Add new subsections SUDAS 9010, 1.08, F through H

F. Open Ditch Slope Temporary Cover Crop Seeding:

1. **Measurement:** Measurement will be in stations.
2. **Payment:** Payment will be at the unit price per station. No actual measurement will be taken.
3. **Includes:** Unit price includes, but is not limited to, preparing the seedbed by roughening all slopes 3:1 or steeper (including ditch banks) by running a harrow or engineer approved equal to create horizontal ridging immediately after seeding to improve seed to soil contact, furnishing and placing seed, including any treatment required. Open Ditch Cover Crop Seeding is to be completed daily on the work completed that day. Mulching and Fertilizing is not required.

G. Open Ditch Spoil Cover Crop Seeding:

1. **Measurement:** Measurement will be in stations.
2. **Payment:** Payment will be at the unit price per station. No actual measurement will be taken.
3. **Includes:** Unit price includes, but is not limited to, preparing the seedbed by light tillage, furnishing and placing seed, including any treatment required, and incorporating the seed via light tillage after seeding. Mulching and Fertilizing is not required.

H. Open Ditch Slope Permanent Seeding (Hydraulic Seeding):

1. **Measurement:** Measurement will be in stations.
2. **Payment:** Payment will be at the unit price per station. No actual measurement will be taken.
3. **Includes:** Unit price includes, but is not limited to, furnishing, seeding, and fertilizing the ditch banks via hydraulic seeding.

Amend SUDAS 9010, 2.02 (Seed Mixtures) by adding the following:

- I. **Drainage District Open Ditch Spoil Cover Crop Seeding (Top of Ditch Banks):** Used on top of spoil banks after open ditch repairs. Use between May 1 and August 31. No seeding is required if outside the seeding window.

Open Ditch Spoil Cover Crop Seed Mixture	
Common Name	Application Rate
Oats	80 lbs/ac

- J. **Drainage District Ditch Slope Cover Crop Seeding:** Used daily on freshly worked open ditch slopes. Two seed mixtures are included depending on date of seeding.

Ditch Slope Cover Crop Seed Mixture (April 1 to August 31)	
Common Name	Application Rate
Buckwheat	10 lbs/ac
Barley	10 lbs/ac
Sudangrass	5 lbs/ac
Smooth Brome Grass	5 lbs/ac
Annual Ryegrass	10 lbs/ac

Ditch Slope Cover Crop Seed Mixture (September 1 to November 30)	
Common Name	Application Rate
Cereal Rye	60 lbs/ac
Smooth Brome Grass	5 lbs/ac
Annual Ryegrass	10 lbs/ac

K. Drainage District Open Ditch Permanent Seeding (Hydroseed): Used after completion of an open ditch repair. Two seed mixtures are included depending on date of seeding.

Ditch Slope Permanent Seed Mixture (Hydraulic Seeding Mix) (April 1 to September 30)	
Common Name	Application Rate
Smooth Brome	20 lbs/ac
Tall Fescue	10 lbs/ac
Perennial Ryegrass	10 lbs/ac
Meadow Fescue	6 lbs/ac
Annual Ryegrass	4 lbs/ac
Orchardgrass	3 lbs/ac
Timothy	2 lbs/ac

Ditch Slope Permanent Seed Mixture (Hydraulic Seeding Mix) (October 1 to March 31)	
Common Name	Application Rate
Smooth Brome	25 lbs/ac
Tall Fescue	15 lbs/ac
Perennial Ryegrass	15 lbs/ac
Meadow Fescue	6 lbs/ac
Orchardgrass	3 lbs/ac
Timothy	2 lbs/ac

Amend SUDAS 9010, 2.03, 3 (Fertilizer) by adding the following:

Apply fertilizer rate of 10 lbs nitrogen (N), 20 lbs phosphate (P), and 10 lbs of potash (K) per acre with Ditch Slope Permanent Seed Mixture (Hydraulic Seeding).

C. Fertilizer is not required for Cover Crop Mixtures.

Amend SUDAS 9010, 2.07 (Mulch) by adding the following:

D. For Drainage District Crop Seeding mixes, mulch is not required.

Amend SUDAS 9010, 3.03 (Seedbed Preparation) by adding the following:

D. Surface Roughening (Ditch Slopes): Roughen all slopes 3:1 or steeper (including ditch banks) by using a harrow or engineer approved equal to create horizontal ridging immediately after daily seeding to improve seed to soil contact. This is incidental to the seeding pay item.

E. Topsoil Preparation (Leveled Spoil Banks): On leveled spoil banks (top of bank), deep till (6") to alleviate compaction, remove rocks >4", and apply/incorporate topsoil if specified. This work is incidental to Spoil Tillage and Rock Pick Up.

Amend SUDAS 9010, 3.04 (Seeding) by adding the following:

H. Temporary Seeding Application: For Drainage District Cover Crop Seeding, apply seed daily or as soon as practicable to disturbed ditch slopes and work in with a harrow or approved equal after seeding. Do not delay seeding until project completion. Engineer may direct seeding to take advantage of weather conditions.

Amend SUDAS 9010, 3.10, A, 2 (Acceptance and Warranty) by replacing with the following:

2. Acceptance will occur upon proper application and documentation. Emergence and establishment are understood to be difficult and therefore are not required for acceptance.

Section 9040 – Erosion and Sediment Control

Amend SUDAS 9040, 1.08, A (Stormwater Pollution Prevention Plan (SWPPP)) by adding the following:

1. Unless stated otherwise on the plans or in the bid items, a Stormwater Pollution Prevention Plan (SWPPP) is not required for agricultural drainage work, therefore it does not apply for this project.

Amend SUDAS 9040, 1.08, J (Rip Rap) by adding the following:

4. Engineering Fabric is not required unless explicitly called out on plans and details.

Add new subsection SUDAS 9040, 1.08, Y:

Y. Sediment Baffle:

1. **Measurement:** Measurement will be lump sum.
2. **Payment:** Payment will be lump sum.
3. **Includes:** Price includes, but is not limited to, all labor and equipment required to install, maintain, and remove a sediment baffle at the outlet of the open ditch. This work is to be completed prior to any excavation occurring.

Section 9060 – Chain Link Fence

Amend SUDAS 9060, 1.01 (Section Includes) by adding the following:

D. Agricultural Fence

Amend SUDAS 9060, 1.08, D and E by replacing with the following:

D. Removal and Reinstallation of Existing Fence:

1. **Measurement:** Measurement will be in Each for each fence removed and reinstalled as shown on the plans.
2. **Payment:** Payment will be at the contract unit price per Each for each fence removed and reinstalled.
3. **Includes:** Unit price includes, but is not limited to, removing vegetation; removing all fence fabric, appurtenances, posts, and gates; removal of concrete encasement from posts; storage of the removed fencing materials to prevent damage; reinstallation of the posts, gates, and fabric, including all appurtenances; and replacement of any fence parts that are not able to be salvaged and reinstalled. Replace items damaged from Contractor's operations with new materials, at no additional cost to the Contracting Authority. No fences will be replaced unless explicitly called out on the plans.

E. Removal of Fence:

1. **Measurement:** No actual measurement will be taken. Removal of Fence is incidental to excavation. Contractor shall make his own determination on quantity removed. Any fence or fence materials within the work right-of-way will need to be removed.
2. **Payment:** No payment.
3. **Includes:** Includes, but is not limited to, removing vegetation; removing all fence fabric, appurtenances, posts, and gates; removal of concrete encasement from posts; and disposal of the removed fencing materials to prevent damage via burying in rubbish piles with a minimum of 3' of soil cover.

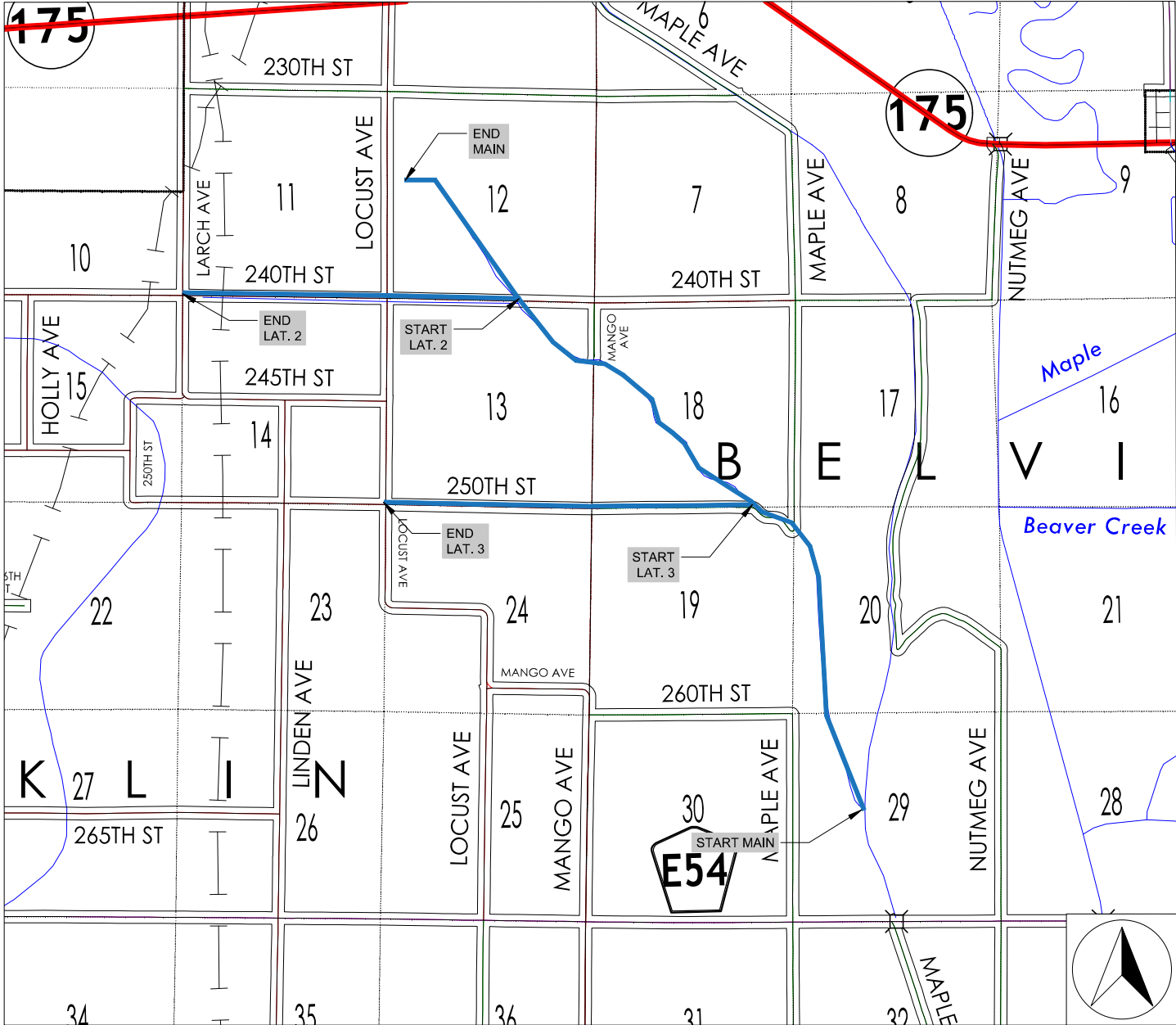
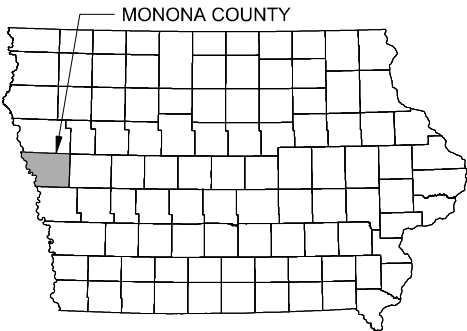
CONSTRUCTION PLANS FOR
OLIVER LAKE DRAINAGE DISTRICT
OPEN DITCH REPAIRS
MONONA COUNTY, IA
2026



The contractor shall field verify exact locations prior to commencing construction as required by state law. Notify Iowa One Call, 811 or 1-800-292-8989.

Specifications
Unless otherwise noted, the governing standards for this project shall be the 2026 edition of the Iowa Statewide Urban Design and Specifications (SUDAS) for Public Improvements, supplemented where referenced by the Iowa Department of Transportation's Standard Specifications for Highway and Bridge Construction, Series 2023, along with all active general supplemental specifications, materials, instructional memoranda, and relevant special provisions.

Where conflicts arise, the stricter requirement shall take precedence. Complete compliance with all applicable federal, state, and local laws, ordinances, and regulations is mandatory throughout the project's execution.



Sheet List	
Number	Title
A.01-A.01	Title Sheet
A.02-A.03	District Plat
B.01-B.02	Details
C.01-C.03	Construction Details and Quantities
D.01-D.09	Plan & Profile - Oliver Lake Main
D.10-D.14	Plan & Profile - Oliver Lake Lat. 2
D.15-D.19	Plan & Profile - Oliver Lake Lat.3
X.01-X.21	Oliver Lake Main Sections

The construction plans include plan sheets prepared by ISG and reviewed by AgriVia.

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.

Tyler Buman 8/26/26
Tyler J. Buman, P.E. (date)
License No. 30759
My license renewal date is December 31, 2026.
Pages or sheets covered by this seal:
ALL

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.

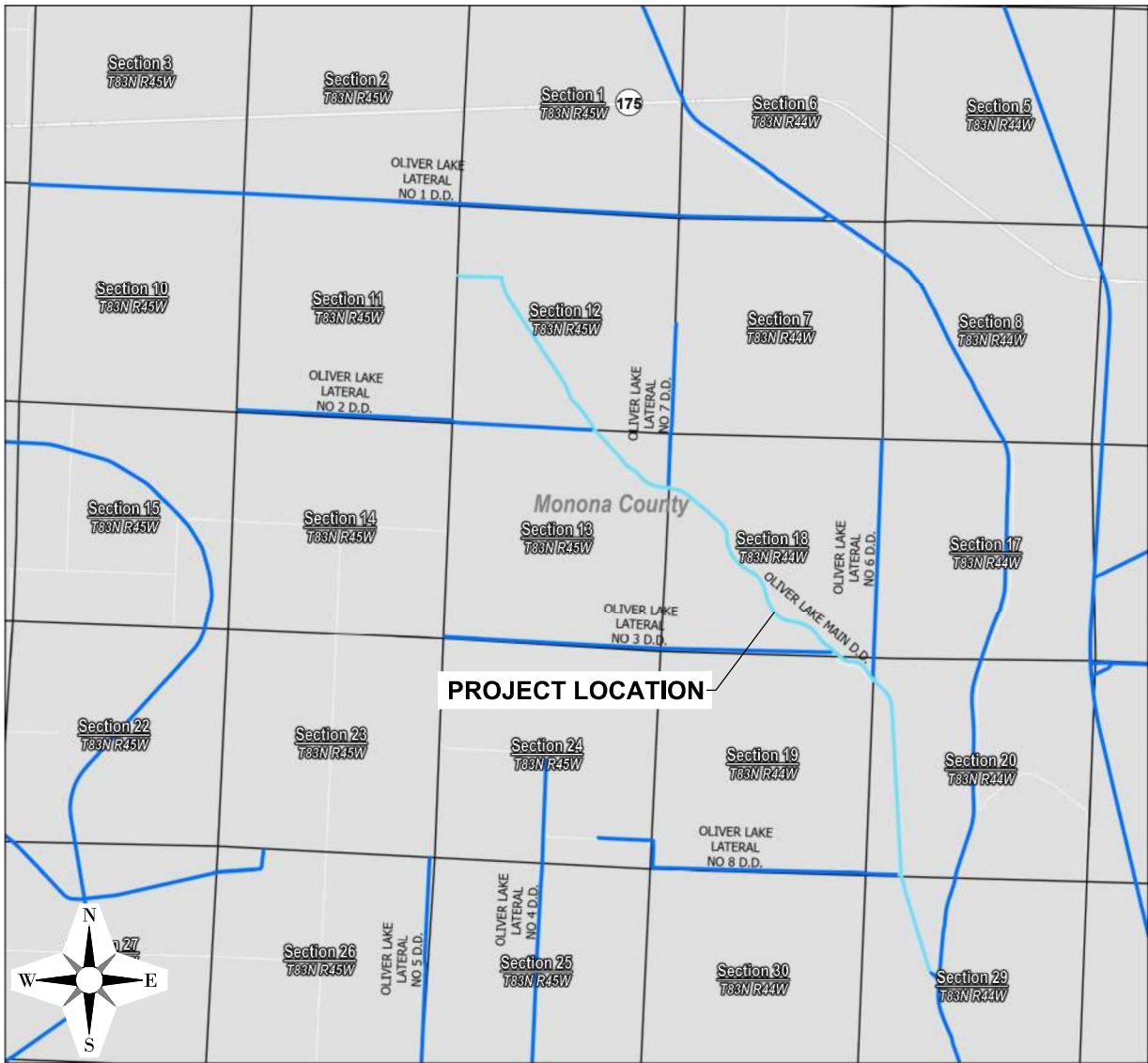
Jacob Hagan 8/28/26
Jacob L. Hagan, P.E. (date)
License No. 25738
My license renewal date is December 31, 2026.
Pages or sheets covered by this seal:
All

OLIVER LAKE MAIN OPEN DITCH REPAIR

MONONA COUNTY, IOWA

~~PRELIMINARY ENGINEERING REPORT~~

ISG PROJECT # 24-32018



PROJECT LOCATION

LOCATION MAP

Plans Reviewed by AgriVia
to serve as Construction Plans

Engineer's Seal on Title Sheet
covers this plan set.

SHEET INDEX	
A.01	TITLE
A.02-A.03	DISTRICT PLAT
B.01-B.02	DETAILS
C.01-C.03	CON. NOTES & QUANTITIES
D.01-D.09	PLAN - PROFILE OLIVER LAKE MAIN
X.01-X.21	SECTIONS

GIS DISCLAIMER:

INFORMATION FOR THE BOUNDARY / LOT LINES, AND UNDERGROUND UTILITIES SHOWN WAS DERIVED FROM DIGITAL DATABASES AND IS FOR INFORMATIONAL PURPOSES ONLY. DATA MAY NOT HAVE BEEN PREPARED FOR, OR BE SUITABLE FOR: LEGAL, ENGINEERING, OR SURVEYING PURPOSES.

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS, AND CLARIFICATIONS ISSUED BY ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED. NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "IOWA ONE CALL" FOR UTILITY LOCATIONS A MINIMUM OF 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-292-8989).

PROJECT INDEX:

OWNER:

OLIVER LAKE
DRAINAGE DISTRICT
COURTHOUSE
610 IOWA AVE. FIRST FLOOR
ONAWA, IOWA 51040
PH: 712-433-2630

**PROJECT
ADDRESS / LOCATION:**

SECTION 18, 19, 20, 29
BELVIDERE TWP.

MONONA COUNTY, IOWA

MANAGING OFFICE:
I & S GROUP, INC. (ISG)

STORM LAKE OFFICE
1725 LAKE AVE. NORTH
STORM LAKE, IA 50588
PHONE: 712.732.7745

PROJECT MANAGER: CALEB RASMUSSEN
EMAIL: CALEB.RASMUSSEN@ISGINC.COM



SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH MONONA COUNTY'S REQUIREMENTS AND WITH THE 2024 EDITION OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) FOR PUBLIC IMPROVEMENTS, UNLESS DIRECTED OTHERWISE.

2026 SUDAS TO BE USED

PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT, ON THE NSRS2011.IARCS-6 COORDINATE SYSTEM, IN U.S. SURVEY FEET.
ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT.

B.M. ELEVATION=1039.21
RR SPIKE IN CORNER POST 67 LF NORTH
OF 250TH STREET, 1240 LF NW OF THE
INTERSECTION OF 250TH ST & MAPLE AVE

TOPOGRAPHIC SURVEY

THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS
OF DATA COLLECTED IN DECEMBER 2024 BY ISG.



SHEET NOT VALID UNLESS THIS TEXT IS COLOR.

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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-TITLE
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE
TITLE

SHEET
A.01

PRELIMINARY NOT FOR CONSTRUCTION

Plat Reference	Owner Name	Legal Description
1	DART FARMS,INC	07-83-44 PT SW NE
2	DART FARMS,INC	07-83-44 PT SW NE
3	DART FARMS,INC	07-83-44 PT SE NE
4	DART FARMS,INC	07-83-44 PT SE NE
5	DART FARMS,INC	07-83-44 PT SW NW
6	DART FARMS,INC	07-83-44 PT SW NW
7	DART FARMS,INC	07-83-44 PT SE NW
8	DART FARMS,INC	07-83-44 PT SE NW
9	DART FARMS,INC	07-83-44 NE SW
10	DART FARMS,INC	07-83-44 NW SW OLIVER LAKE LAT #7- .76 AC ● NO VALUE
11	DART FARMS,INC	07-83-44 SW SW OLIVER LAKE LAT #7- .74 AC ● NO VALUE
12	DART FARMS,INC	07-83-44 SE SW
13	DART FARMS,INC	07-83-44 NE SE
14	DART FARMS,INC	07-83-44 NW SE
15	DART FARMS,INC	07-83-44 SW SE
16	DART FARMS,INC	07-83-44 SE SE
17	DART FARMS,INC	08-83-44 PT SW NW MONONA-HARRISON DD- 3.49 AC & 3.66 L SX INT-CO DD ● NO VALUE
18	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 PT NE SW W CL MONONA HARRISON DD (1.48 AC L SX INT-CO DD & 6.04 M-H DD ● NO VALUE)
19	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 E 1/2 NW SW 0.41AC L SIOUX INTER- CO DD & 0.01AC M-H DD ● NO VALUE
20	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 W 1/2 NW SW
21	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 E 1/2 SW SW
22	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 W 1/2 SW SW
23	OLIVER,CHARLES FAMILY TRUST OLIVER,JOSEPH C-TRUSTEE	08-83-44 PT SE SW W C/L MONONA HARRISON DD (.91AC L SX INT-CO DD & 4.54AC M-H DD ● NO VALUE)
24	DART FARMS,INC	17-83-44 PT NW NE MONONA-HARRISON DD- 4.66AC & 1.08AC L SX I-C DD ● NO VALUE
25	DART FARMS,INC	17-83-44 PT SW NE MONONA-HARRISON DD- 4.54AC & 1.36AC L SX INTER-CO DD● NO VALUE
26	DART FARMS,INC	17-83-44 NE NW
27	DART FARMS,INC	17-83-44 NW NW
28	DART FARMS,INC	17-83-44 SW NW
29	DART FARMS,INC	17-83-44 SE NW
30	DART FARMS,INC	17-83-44 NE SW
31	DART FARMS,INC	17-83-44 NW SW
32	DART FARMS,INC	17-83-44 SW SW
33	DART FARMS,INC	17-83-44 SE SW MONONA-HARRISON DD- 1.92AC & .81AC L SX INT-CO DD ● NO VALUE
34	DART FARMS,INC	17-83-44 PT NW SE MONONA-HARRISON DD- 4.58 AC & 1.37AC L SX INTER-CO DD● NO VALUE
35	DART FARMS,INC	17-83-44 PT SW SE MONONA-HARRISON DD- 2.84AC & .62AC L SX INT-CO DD ● NO VALUE
36	WILLEY,BAYNARD FAMILY FARM,LLC	18-83-44 NE NE OLIVER LAKE LAT #6- .32 AC ● NO VALUE
37	FURST,HENRY C FAMILY TRUST AGR DTD 06/13/99;FURST,HENRY C-TR	18-83-44 NW NE
38	FURST,HENRY C FAMILY TRUST AGR DTD 06/13/99;FURST,HENRY C-TR	18-83-44 SW NE
39	WILLEY,BAYNARD FAMILY FARM,LLC	18-83-44 SE NE OLIVER LAKE LAT #6- .33 AC ● NO VALUE
40	PASEKA,RONALD J PASEKA,MARILYN K	18-83-44 NE NW
41	PASEKA,RONALD J PASEKA,MARILYN K	18-83-44 PT NW NW OLIVER LAKE MAIN DD- .11 AC ● NO VALUE
42	PASEKA,RONALD J PASEKA,MARILYN K	18-83-44 SW NW OLIVER LAKE MAIN DD- 1.50 AC ● NO VALUE
43	PASEKA,RONALD J PASEKA,MARILYN K	18-83-44 SE NW OLIVER LAKE MAIN DD- .23 AC ● NO VALUE
44	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 NE SW OLIVER LAKE MAIN DD- 1.50 AC ● NO VALUE
45	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 PT NW SW
46	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 SW SW OLIVER LAKE LAT #3- .30 AC ● NO VALUE
47	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 SE SW OLIVER LAKE LAT #3- .30 AC ● NO VALUE
48	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 NE SE OLIVER LAKE LAT #6- .33 AC ● NO VALUE
49	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 NW SE OLIVER LAKE MAIN DD- .11 AC ● NO VALUE
50	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 SW SE OLIVER LAKE MAIN DD- 1.50 AC & LAT #3- .30 AC ● NO VALUE
51	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	18-83-44 SE SE OLIVER LAKE MAIN DD- .23 AC,LAT #3-.05 AC & LAT #6-.32 AC ● NV
52	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 NE NE OLIVER LAKE MAIN DD- .78 AC & LAT #6- .10 AC ● NO VALUE
53	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 NW NE
54	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 SW NE
55	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 SE NE
56	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 NE NW
57	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 NW NW
58	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 SW NW
59	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	19-83-44 SE NW
60	CAMSON,LLC	19-83-44 NE SW
61	CAMSON,LLC	19-83-44 NW SW
62	CAMSON,LLC	19-83-44 SW SW OLIVER LAKE LAT #8- .57 AC ● NO VALUE
63	CAMSON,LLC	19-83-44 SE SW OLIVER LAKE LAT #8- .33 AC ● NO VALUE
64	CAMSON,LLC	19-83-44 NE SE
65	CAMSON,LLC	19-83-44 NW SE
66	CAMSON,LLC	19-83-44 SW SE OLIVER LAKE LAT #8- .33 AC ● NO VALUE
67	CAMSON,LLC	19-83-44 SE SE OLIVER LAKE LAT #8- .33 AC ● NO VALUE

Plat Reference	Owner Name	Legal Description
68	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT NE NW MONONA-HARRISON DD- 4.02AC & .72AC L SX INT-CO DD ● NO VALUE
69	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT NW NW OLIVER LAKE MAIN DD- .92 AC ● NO VALUE
70	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	20-83-44 PT NW NW OLIVER LAKE MAIN DD- .93 AC ● NO VALUE
71	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT SW NW OLIVER LAKE MAIN DD- 1.67 AC ● NO VALUE
72	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	20-83-44 PT SW NW OLIVER LAKE MAIN DD- 1.66 AC ● NO VALUE
73	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT SE NW MONONA-HARRISON DD- 4.14AC & .54AC L SX INT-CO DD ● NO VALUE
74	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 NE SW MONONA-HARRISON DD- 5.00AC & 1.11AC L SX INTER-CO DD● NO VALUE
75	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT NW SW OLIVER LAKE MAIN DD- 1.67 AC ● NO VALUE
76	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	20-83-44 PT NW SW OLIVER LAKE MAIN DD- 1.66 AC ● NO VALUE
77	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT SW SW OLIVER LAKE MAIN DD- 1.66 AC ● NO VALUE
78	LINDHORST,CHARLES H TRUST AGR LINDHORST,CHARLES H-TRUSTEE	20-83-44 PT SW SW OLIVER LAKE MAIN DD- 1.67 AC & LAT #8- .51 AC ● NO VALUE
79	MAHLOCH,HUGO W TRUST 7/20/93; TRUSTEES-MAHLOCH,HUGO W,R;PFLAGER,NANCY L;POPE,DIANNE K;NEVINS,KATHLEEN A	20-83-44 PT SE SW MONONA-HARRISON DD- 5.23AC & 1.25 L SX INT-CO DD ● NO VALUE
80	NUTT FAMILY REVOCABLE LIVING TR,DTD 10/17/97;NUTT,JOHN CHRISTOPHER & SHANNON UEDA-TRUSTEES	29-83-44 NE NW MONONA-HARRISON DD- 12.62AC & .62AC L SX INTER-CO ● NO VALUE
81	GRAY,VICKI L REV LIV TR	29-83-44 NW NW OLIVER LAKE MAIN DD- 3.33 AC & LAT #8- .51 AC ● NO VALUE
82	BELKNAP,MICHAEL D	29-83-44 N 1/2 SW NW OLIVER LAKE MAIN DD- .37 AC ● NO VALUE
83	COLLISON,CLARENCE EDWARD	29-83-44 S 1/2 SW NW
84	NUTT FAMILY REVOCABLE LIVING TR,DTD 10/17/97;NUTT,JOHN CHRISTOPHER & SHANNON UEDA-TRUSTEES	29-83-44 SE NW MONONA-HARRISON DD- 11.32 AC;OLIVER LAKE DD-4.11AC;.61AC L SX INT-CO DD ● NO VAL
85	COLLISON,JOANN M	30-83-44 NE NE
86	RAMM,LEONARD E & KATHIE A	30-83-44 NE NW
87	RAMM,LEONARD E & KATHIE A	30-83-44 PT NW NW
88	RAMM,LEONARD E & KATHIE A	30-83-44 PT NW NW
89	KENNEDY,CHRISTINE	30-83-44 PT NW NW
90	RAMM,LEONARD E & KATHIE A	30-83-44 SW NW
91	RAMM,LEONARD E & KATHIE A	30-83-44 SE NW
92	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 PT SW NE
93	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 PT SE NE
94	WILLEY,GREGORY S & RHONDA S	10-83-45 SW NW
95	FREDRICKSON,DAVID	10-83-45 SE NW
96	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 E 1/2 NE SW
97	FREDRICKSON,DAVID	10-83-45 W 1/2 NE SW
98	FREDRICKSON,DAVID	10-83-45 NW SW
99	FREDRICKSON,DAVID	10-83-45 SW SW
100	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 E 1/2 SE SW
101	FREDRICKSON,DAVID	10-83-45 W 1/2 SE SW
102	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 NE SE
103	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 NW SE
104	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 SW SE
105	BOUCHER,JOEL S MARITAL TRUST BOUCHER,PATRICIA J-TRUSTEE	10-83-45 SE SE
106	KROGH INVESTMENTS,INC	11-83-45 PT SW NE (E 3/4) (EXCEPTION:C-NW RR ROW)
107	KROGH INVESTMENTS,INC	11-83-45 PT SW NE (W 1/4) (EXCEPTION:C-NW RR ROW)
108	KROGH INVESTMENTS,INC	11-83-45 PT SW NE FORMER C-NW TRANS CO RR ROW
109	KROGH INVESTMENTS,INC	11-83-45 PT SW NE FORMER C-NW TRANS CO RR ROW
110	KROGH INVESTMENTS,INC	11-83-45 PT SE NE (EXCEPTION:C-NW RR ROW)
111	KROGH INVESTMENTS,INC	11-83-45 PT SE NE FORMER C-NW TRANS CO RR ROW
112	HAWTHORN LAND HOLDINGS,LLC	11-83-45 PT SW NW
113	HAWTHORN LAND HOLDINGS,LLC	11-83-45 PT SW NW FORMER C-NW RR ROW
114	HAWTHORN LAND HOLDINGS,LLC	11-83-45 PT SE NW
115	HAWTHORN LAND HOLDINGS,LLC	11-83-45 PT SE NW FORMER C-NW RR ROW
116	WILLEY,BAYNARD FAMILY FARM,LLC	11-83-45 NE SW
117	HAWTHORN LAND HOLDINGS,LLC	11-83-45 NW SW
118	WILLEY,BAYNARD FAMILY FARM,LLC	11-83-45 SW SW .30 AC OLIVER LAKE LAT #2 DD TO NC-1991
119	WILLEY,BAYNARD FAMILY FARM,LLC	11-83-45 SE SW .30 AC OLIVER LAKE LAT #2 DD TO NC-1991
120	KROGH INVESTMENTS,INC	11-83-45 NE SE
121	KROGH INVESTMENTS,INC	11-83-45 NW SE
122	KROGH INVESTMENTS,INC	11-83-45 SW SE .30 AC OLIVER LAKE LAT #2 DD TO NC-1991
123	KROGH INVESTMENTS,INC	11-83-45 SE SE .30 AC OLIVER LAKE LAT #2 DD TO NC-1991
124	KROGH INVESTMENTS,INC	12-83-45 PT SW NE
125	KROGH INVESTMENTS,INC	12-83-45 SW NE
126	KROGH INVESTMENTS,INC	12-83-45 PT SE NE
127	KROGH INVESTMENTS,INC	12-83-45 SE NE
128	KROGH INVESTMENTS,INC	12-83-45 NW NW
129	KROGH INVESTMENTS,INC	12-83-45 PT SW NW
130	KROGH INVESTMENTS,INC	12-83-45 SW NW
131	KROGH INVESTMENTS,INC	12-83-45 PT SE NW
132	KROGH INVESTMENTS,INC	12-83-45 SE NW
133	KROGH INVESTMENTS,INC	12-83-45 NE SW
134	KROGH INVESTMENTS,INC	12-83-45 NW SW
135	KROGH INVESTMENTS,INC	12-83-45 SW SW
136	KROGH INVESTMENTS,INC	12-83-45 SE SW
137	KROGH INVESTMENTS,INC	12-83-45 NE SE

Plat Reference	Owner Name	Legal Description
138	KROGH INVESTMENTS,INC	12-83-45 NW SE
139	KROGH INVESTMENTS,INC	12-83-45 SW SE
140	KROGH INVESTMENTS,INC	12-83-45 SE SE
141	KAZAK LAND MANAGEMENT LLC	13-83-45 PT NE NE .74 AC BENEFIT OLIVER LAKE MAIN & .21 AC OL LAT #7-NO VALUE
142	CAMSON,LLC	13-83-45 PT NE NE OLIVER LAKE MAIN DD .74 AC ● NO VALUE OL CUT 2.82 AC ● NV
143	KAZAK LAND MANAGEMENT LLC	13-83-45 PT NW NE .36 AC BENEFIT OLIVER LAKE MAIN DD-NO VALUE
144	CAMSON,LLC	13-83-45 PT NW NE OL MAIN DD .36AC ● NV OL CUT-.70 AC ● NV '94OL LAT#2 .141AC●NV
145	CAMSON,LLC	13-83-45 SW NE
146	CAMSON,LLC	13-83-45 SE NE OLIVER LAKE MAIN CUT- 1.00 AC ● NO VALUE
147	CAMSON,LLC	13-83-45 PT NE NW
148	NELSON & ROCK CONTRACTING,INC	13-83-45 NE NW OLIVER LAKE LAT #2 DD .212 AC ● NO VALUE FOR 1994 VALUES
149	NELSON & ROCK CONTRACTING,INC	13-83-45 NW NW OLIVER LAKE LAT #2 DD .206 AC ● NO VALUE FOR 1994 VALUES
150	NELSON & ROCK CONTRACTING,INC	13-83-45 PT SW NW
151	NELSON & ROCK CONTRACTING,INC	13-83-45 PT SW NW
152	CAMSON,LLC	13-83-45 N PT SE NW
153	NELSON & ROCK CONTRACTING,INC	13-83-45 N PT SE NW
154	CAMSON,LLC	13-83-45 S PT SE NW
155	NELSON & ROCK CONTRACTING,INC	13-83-45 S PT SE NW
156	CAMSON,LLC	13-83-45 PT NE SW
157	CAMSON,LLC	13-83-45 NW SW
158	CAMSON,LLC	13-83-45 PT SW SW OLIVER LAKE LAT #3 DD .19 AC ● NO VALUE
159	TERRY,JASON E	13-83-45 PT SW SW OLIVER LAKE LAT #3 DD .11 AC ● NO VALUE
160	CAMSON,LLC	13-83-45 SE SW OLIVER LAKE LAT #3 DD .30 AC ● NO VALUE
161	CAMSON,LLC	13-83-45 NE SE
162	CAMSON,LLC	13-83-45 NW SE
163	CAMSON,LLC	13-83-45 SW SE OLIVER LAKE LAT #3 DD .30 AC ● NO VALUE
164	CAMSON,LLC	13-83-45 SE SE OLIVER LAKE LAT #3 DD .30 AC ● NO VALUE
165	MILLER,BEULAH R	14-83-45 NE NE
166	MILLER,BEULAH R	14-83-45 NW NE
167	MILLER,BEULAH R	14-83-45 SW NE
168	CODDINGTON,TERRY	14-83-45 PT SW NE TITLE # 67-W034913 VIN # 1249K
169	MILLER,BEULAH R	14-83-45 SE NE
170	MILLER,BEULAH R	14-83-45 NE NW
171	NILAN,GORDON TRUST-1/2	14-83-45 NW NW
172	NILAN,GORDON TRUST-1/2	14-83-45 SW NW
173	MILLER,BEULAH R	14-83-45 SE NW
174	MILLER,BEULAH R	14-83-45 NE SE
175	MILLER,BEULAH R	14-83-45 NW SE
176	MILLER,BEULAH R	14-83-45 PT SW SE
177	MILLER,STACEY L	14-83-45 PT SW SE
178	MILLER,BEULAH R	14-83-45 SE SE
179	BEDFORD,RONALD L	15-83-45 NE NE
180	BEDFORD,RONALD L	15-83-45 NW NE
181	SHANKLIN, MATTHEW R & KELSEY R	15-83-45 PT NW NE
182	BEDFORD,RONALD L	15-83-45 SE NE
183	MILLER,KENT & VICKIE REV TR DTD 5/25/23	24-83-45 NE NE
184	MILLER,KENT & VOKIE REV TR DTD 5/25/23	24-83-45 NW NE
185	MILLER,KENT & VICKIE REV TR DTD 5/25/23	24-83-45 SW NE
186	MILLER,KENT & VICKIE REV TR DTD 5/25/23	24-83-45 SE NE
187	MILLER,KENT & VICKIE REV TR DTD 5/25/23	24-83-45 NE NW
188	MILLER,KENT & VICKIE REV TR DTD 5/25/23	24-83-45 NW NW
189	CAMSON,LLC	24-83-45 NE SE
190	YANAK,MITCHELL D	24-83-45 NW SE
191	YANAK,DAVID LYNN	24-83-45 PT NW SE
192	YANAK,MITCHELL D	24-83-45 N 1/2 SW SE
193	CAMSON,LLC	24-83-45 N 1/2 SE SE .37 AC OLIVER LAKE LAT #8 DD TO NC
194	BENSON RANCH,LLC	24-83-45 S 1/2 SE SE
195	BYERS,DEREK E & FAWN L	25-83-45 PT NE NE
196	BENSON RANCH,LLC	25-83-45 NE NE



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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-TITLE
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

**DISTRICT PLAT
REFERENCE**

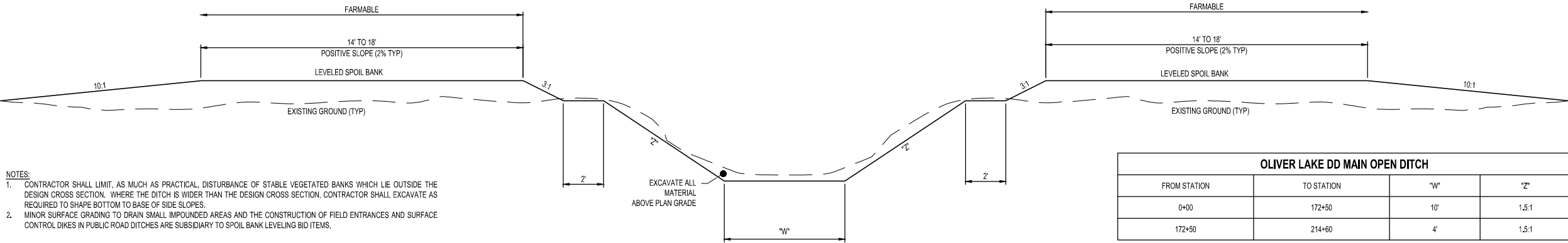
SHEET

A.03

PRELIMINARY NOT FOR CONSTRUCTION



ALL DETAILS ON THIS DRAWING ARE TYPICAL AND MAY BE SUPERSEDED BY CONSTRUCTION NOTES, PLAN DETAILS, AND/OR ENGINEER'S DIRECTION



- NOTES:
- CONTRACTOR SHALL LIMIT, AS MUCH AS PRACTICAL, DISTURBANCE OF STABLE VEGETATED BANKS WHICH LIE OUTSIDE THE DESIGN CROSS SECTION. WHERE THE DITCH IS WIDER THAN THE DESIGN CROSS SECTION, CONTRACTOR SHALL EXCAVATE AS REQUIRED TO SHAPE BOTTOM TO BASE OF SIDE SLOPES.
 - MINOR SURFACE GRADING TO DRAIN SMALL IMPOUNDED AREAS AND THE CONSTRUCTION OF FIELD ENTRANCES AND SURFACE CONTROL DIKES IN PUBLIC ROAD DITCHES ARE SUBSIDIARY TO SPOIL BANK LEVELING BID ITEMS.

3. THE SOILS ARE PRONE TO SLOUGHING. CARE SHALL BE TAKEN TO LIMIT OVER EXCAVATION AND LIMIT GRASS REMOVAL FROM THE SIDE SLOPES.
4. PORTIONS OF THE OPEN DITCH ALONG THE ROAD WILL BE CLEANED OUT FROM FIELD SIDE ONLY. SPOIL WILL BE LEVELLED ON FIELD SIDE ONLY.

OPEN DITCH CLEANOUT TWO SIDED SPOIL LEVELING TYPICAL SECTION
NTS

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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-DETAILS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE

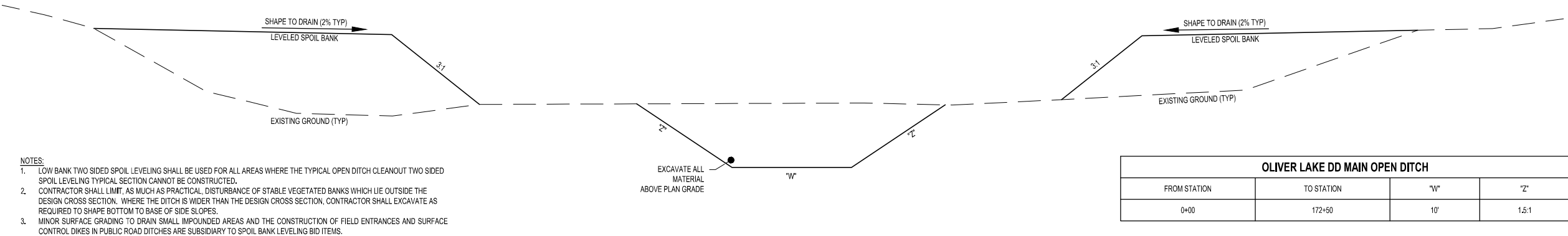
DETAILS

SHEET

B.01

LAKE SECTION CLEANOUT IS FROM STATION 90+00 TO 148+00

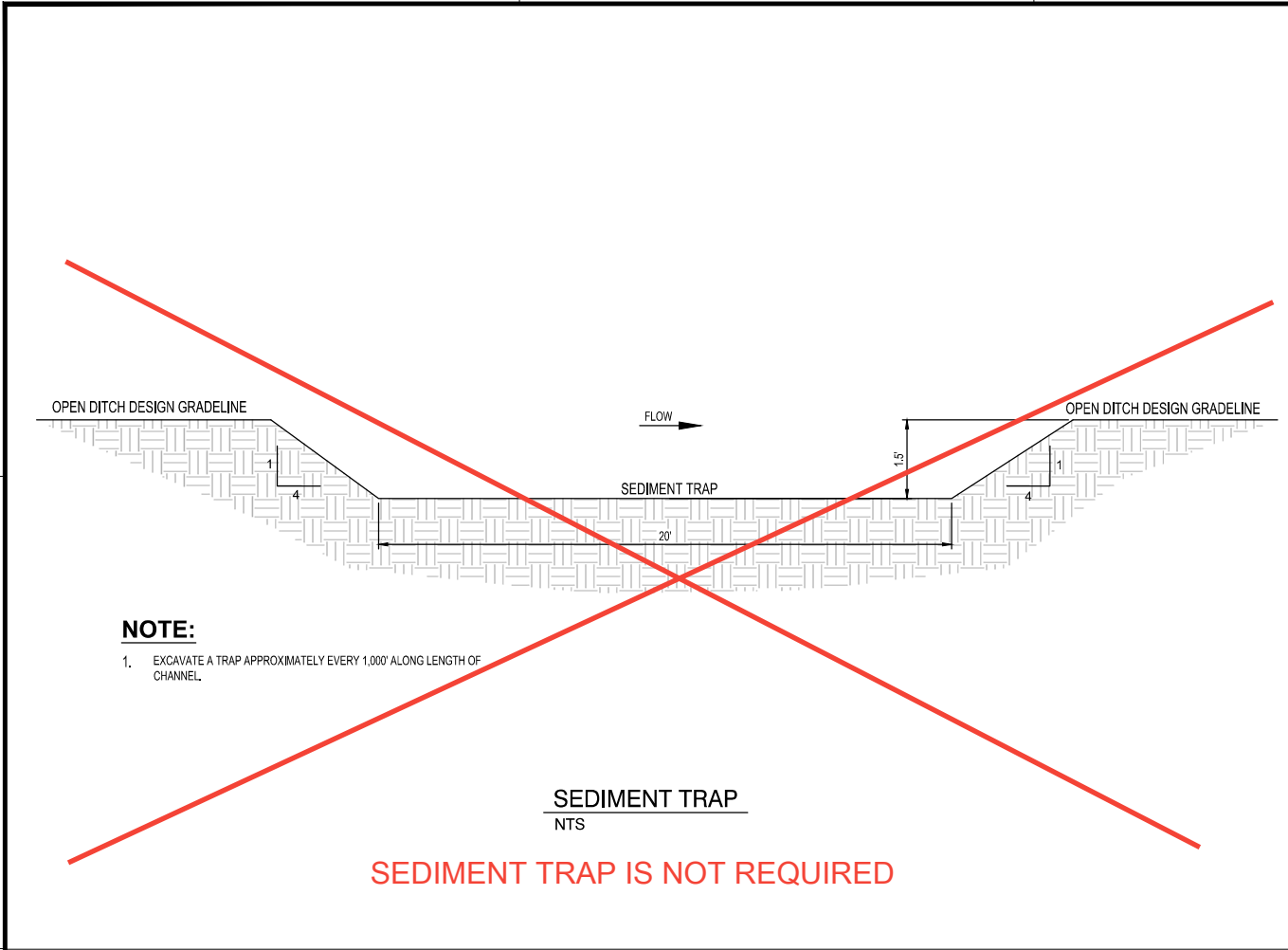
ALL DETAILS ON THIS DRAWING ARE TYPICAL AND MAY BE SUPERSEDED BY CONSTRUCTION NOTES, PLAN DETAILS, AND/OR ENGINEER'S DIRECTION



- NOTES:
- LOW BANK TWO SIDED SPOIL LEVELING SHALL BE USED FOR ALL AREAS WHERE THE TYPICAL OPEN DITCH CLEANOUT TWO SIDED SPOIL LEVELING TYPICAL SECTION CANNOT BE CONSTRUCTED.
 - CONTRACTOR SHALL LIMIT, AS MUCH AS PRACTICAL, DISTURBANCE OF STABLE VEGETATED BANKS WHICH LIE OUTSIDE THE DESIGN CROSS SECTION. WHERE THE DITCH IS WIDER THAN THE DESIGN CROSS SECTION, CONTRACTOR SHALL EXCAVATE AS REQUIRED TO SHAPE BOTTOM TO BASE OF SIDE SLOPES.
 - MINOR SURFACE GRADING TO DRAIN SMALL IMPOUNDED AREAS AND THE CONSTRUCTION OF FIELD ENTRANCES AND SURFACE CONTROL DIKES IN PUBLIC ROAD DITCHES ARE SUBSIDIARY TO SPOIL BANK LEVELING BID ITEMS.

4. THROUGH THE LAKE SECTION, CONTRACTOR MAY USE A SCRAPER OR DOZER TO CREATE THE CHANNEL.

LOW BANK TWO SIDED SPOIL LEVELING TYPICAL SECTION
NTS

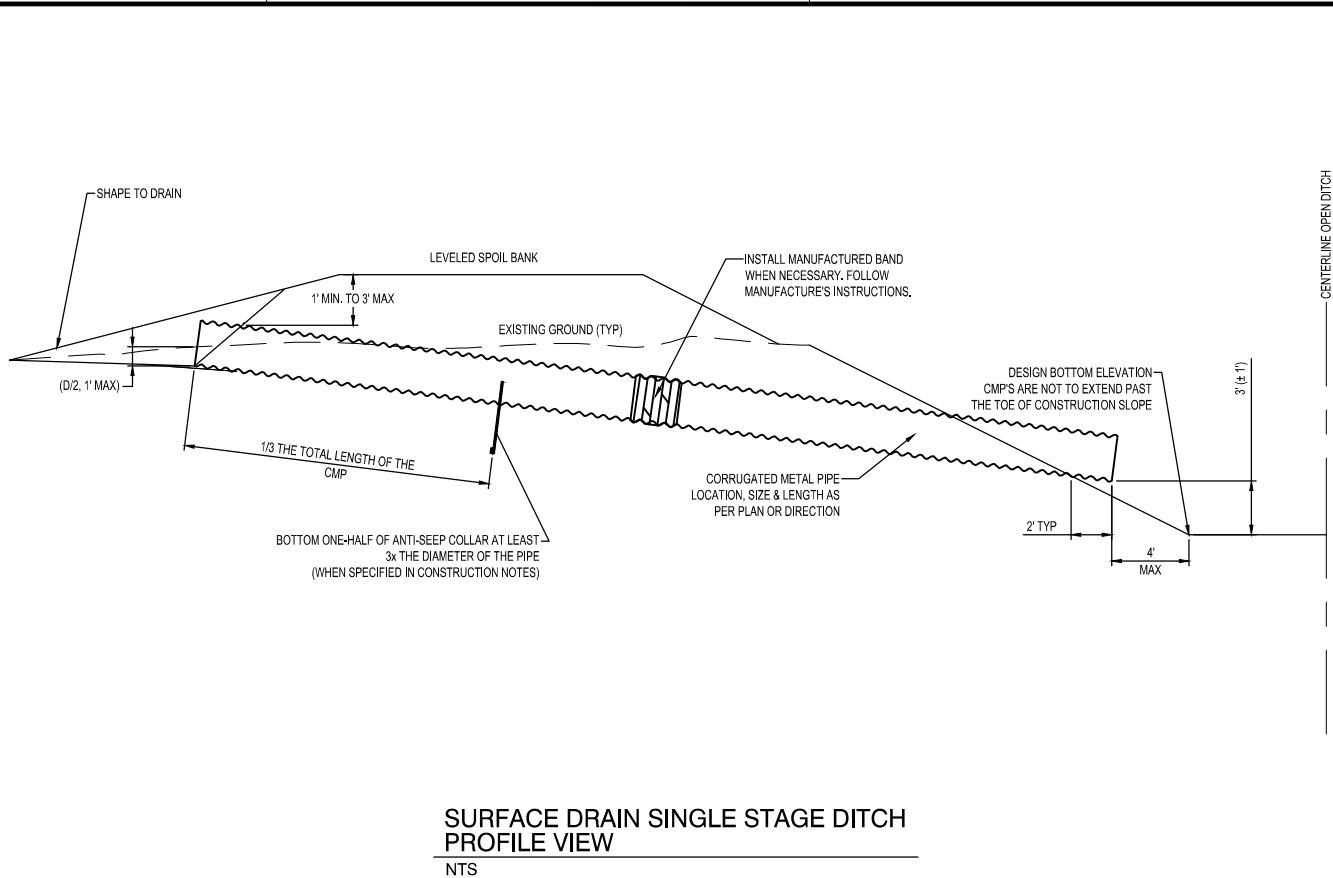


NOTE:

1. EXCAVATE A TRAP APPROXIMATELY EVERY 1,000' ALONG LENGTH OF CHANNEL.

SEDIMENT TRAP
NTS

SEDIMENT TRAP IS NOT REQUIRED



SURFACE DRAIN SINGLE STAGE DITCH
PROFILE VIEW
NTS

AgriVia Details

GENERAL PROVISIONS & PRE-CONSTRUCTION

- WORK AREA:** THE PLANS SHOW THE WORK AREA. STANDARD WORK AREA IS 100 FEET FROM THE CENTERLINE OF THE OPEN DITCH UNLESS OTHERWISE NOTED. THE CONTRACTOR MUST STAY WITHIN THIS AREA. ANY DAMAGE OUTSIDE THE WORK AREA WILL BE DEDUCTED FROM FINAL PAYMENT. ALL STAGING AND STORAGE SHALL BE WITHIN THE WORK AREA. NO STORAGE OR STAGING SHALL TAKE PLACE ON ROADWAYS.
- ACCESS:** ACCESS TO THE WORK AREA IS LIMITED TO PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS CALLED OUT ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ANY ADDITIONAL TEMPORARY ACCESS AGREEMENTS WITH LANDOWNERS OR THE COUNTY ENGINEER FOR ROAD ROW ENTRY. LOCATIONS OF CONSTRUCTION ENTRANCES ARE MARKED ON THE PLANS. OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING ANY OTHER ENTRANCES
- TEMPORARY ACCESS DRIVEWAYS:** PLACE 12 TONS OF CLASS A ROADSTONE ON EACH TEMPORARY ENTRANCE (INCIDENTAL TO TEMPORARY ACCESS DRIVEWAY). CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE COUNTY ROADS DEPARTMENT. THE DRIVEWAY IS REQUIRED TO BE REMOVED AT PROJECT COMPLETION. THE LENGTH TO BE COVERED SHALL BE FROM THE FIELD EDGE TO THE ROAD SHOULDER.
- UTILITIES & LOCATES:** THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL (811) PRIOR TO EXCAVATION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING ALL MARKED AND UNMARKED UTILITIES.
- TILE OUTLET AND SURFACE DRAIN PIPE EXPLORATION:** EXISTING TILE AND SURFACE DRAIN PIPES IS APPROXIMATELY LOCATED ON THE PLANS. THERE LIKELY ARE ADDITIONAL TILE OUTLETS MISSED DURING THE SURVEY ALONG WITH LOCATIONS THAT WILL NEED SURFACE DRAIN PIPES. CONTRACTOR SHALL NOTE ALL MISSED PIPES AND ENGINEER MAY DIRECT THOSE PIPES TO BE REPAIRED OR INSTALLED.
- AS-BUILT DOCUMENTATION:** THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COMPLETE SET OF DRAWINGS SUITABLY MARKED TO SHOW ANY DEVIATIONS FROM THE ORIGINAL PLANS, INCLUDING BUT NOT LIMITED TO ACTUAL PIPE ALIGNMENTS, DEPTHS, CONNECTION LOCATIONS, AND ANY FIELD MODIFICATIONS. THIS DOCUMENTATION SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.
- THE LANDOWNERS** WHERE THE OPEN DITCH BEING REPAIRED ARE PAYING FOR THIS PROJECT. AT COMPLETION OF THE PROJECT, THOSE LANDOWNERS ARE INVITED TO A PUBLIC HEARING AND CAN FILE CLAIMS FOR DAMAGES. THESE SPECIFICATIONS AND PLANS EXIST AS MUCH TO GUIDE AND PROTECT THE CONTRACTOR AS TO PROTECT THE LANDOWNERS. REGULAR DOCUMENTATION ALONG WITH OPEN COMMUNICATION WITH THE ENGINEER IS ESSENTIAL TO A SMOOTH PROJECT FOR ALL PARTIES.

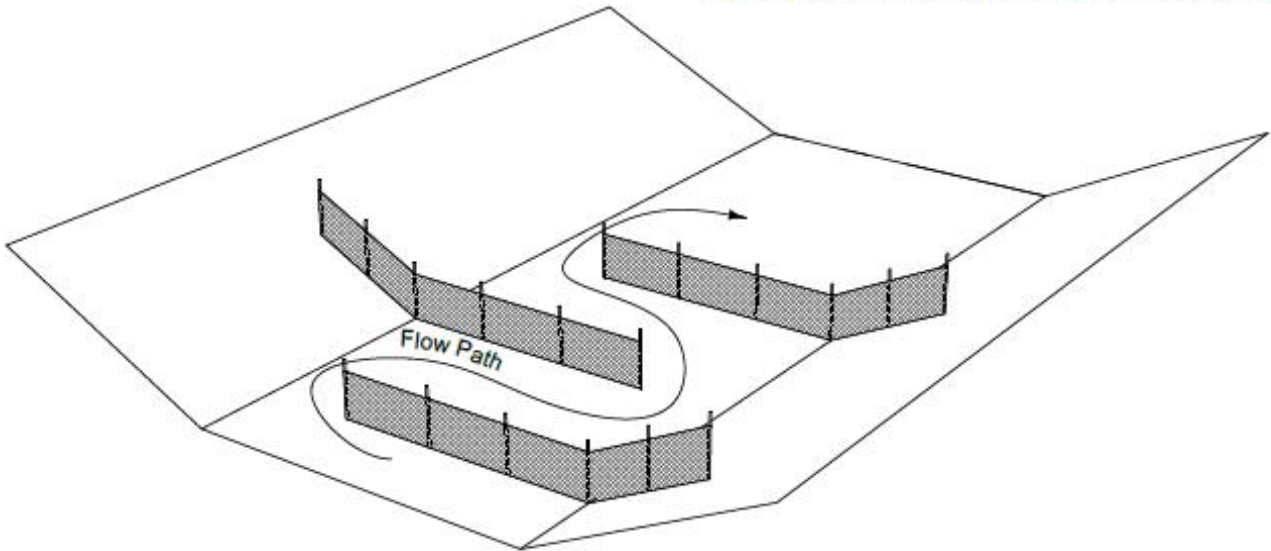
ROADWAY CULVERT CLEANING

- PERMITS & NOTIFICATIONS:** THE CONTRACTOR SHALL OBTAIN ALL NECESSARY OCCUPANCY PERMITS FROM THE COUNTY ENGINEER OR IOWA DOT. NOTIFY THE RESPECTIVE AGENCY AND THE PROJECT ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE ROW.
- TRAFFIC CONTROL:** THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, INCLUDING SIGNAGE, BARRICADES, AND FLAGGERS. ALL SETUPS MUST STRICTLY ADHERE TO THE LATEST MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS AND ANY SPECIFIC REQUIREMENTS SET BY THE COUNTY OR DOT PERMIT.
- UTILITY VERIFICATION:** ALL UTILITIES WITHIN THE ROW (FIBER OPTIC, GAS, WATER) MUST BE DAYLIGHTED VIA POT-HOLING PRIOR TO THE ARRIVAL OF THE BORING OR TRENCHING EQUIPMENT.
- STORAGE AND PARKING:** NO STORAGE OR PARKING OF EQUIPMENT IN PUBLIC RIGHT-OF-WAY. NO CROSSING PAVED ROADS WITH TRACKED EQUIPMENT.
- CULVERT CLEANING:** CONTRACTOR SHALL REMOVE SILT AND DEBRIS FROM THE CULVERT VIA ANY METHOD THE CONTRACTOR CHOOSES SUBJECT TO APPROVAL BY THE ENGINEER TO NOT DAMAGE THE CULVERT, DITCH OR ROAD WAY.
- SHOULDER REPAIR:** ANY DAMAGE TO THE ROAD SHOULDERS OR SIDE SLOPES SHALL BE RESHAPED TO MATCH THE ORIGINAL PROFILE AND IMMEDIATELY SEEDED/MULCHED.
- ROAD CLOSURE:** IF THE ROAD NEEDS TO BE CLOSED. THE ROAD SHALL ONLY BE CLOSED FROM SUN RISE TO SUN SET. BY SUN SET THE ROAD SHALL BE OPEN TO TRAFFIC.

SEDIMENT BAFFLE DETAIL

ALL ITEMS AND NOTES SHOWN IN THIS DETAIL ARE INCIDENTAL UNLESS OTHERWISE NOTED

- GENERAL NOTES:
- CONSTRUCT SEDIMENT BAFFLE BY INSTALLING THREE ROWS OF SILT FENCE ACROSS THE BOTTOM OF THE OPEN DITCH AT THE OUTLET LEAVING AN OPENING EQUAL TO 25% OF THE BOTTOM WIDTH ON ALTERNATING SIDES.
 - SPACE EACH SILT FENCE 4' FROM EACH OTHER.
 - REMOVAL OF THE SILT FENCES AT THE END OF THE PROJECT IS INCIDENTAL TO INSTALLATION.



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-DETAILS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

DETAILS

SHEET

B.02

PRELIMINARY NOT FOR CONSTRUCTION

SYMBOL LEGEND

EXISTING		PROPOSED	
EX STM MH	STORM MANHOLE		
EX CB	STORM CATCH BASIN		
EX CO	STORM CLEANOUT		
	STORM CULVERT		
	DOWNSPOUT		
	ROOF DRAIN		
EX SAN MH	SANITARY MANHOLE		
EX CO	SANITARY CLEANOUT		
EX LIFT STATION	LIFT STATION		
	WATER REDUCER		
	WATER VALVE		
	WATER VALVE MAHOLE		
	WATER CURB STOP		
	WATER SHUT-OFF		
EX POST INDICATOR VALVE	POST INDICATOR VALVE		
	FIRE DEPARTMENT CONNECTION		
	WELL		
EX MW	MONITORING WELL		
	LAWN SPRINKLER BOX		
	LAWN SPRINKLER HEAD		
	HYDRANT		
EX YARD HYD	YARD HYDRANT		
	UTILITY POLE		
	LIGHT POLE		
	GROUND LIGHT		
	GUY WIRE		
	TRANSFORMER		
EX HH	HANDHOLE		
EX ELEC MH	ELECTRIC MANHOLE		
EX	ELECTRIC METER		
UT	UTILITY VAULT		
AC	AIR CONDITIONER		
GM	GAS METER		
GV	GAS VALVE		
SB-1	SOIL BORING		
	FLAG POLE		
MB	MAILBOX		
EX SIGNAL	TRAFFIC SIGNAL		
	SIGN		
	STREET SIGN		
	WHEEL STOP		
RR	RAILROAD CROSSING SIGN		
	POST		
	DECIDUOUS TREE		
	CONIFEROUS TREE		
	BUSH		
	TREE STUMP		
	WETLAND / MARSH		
	ROCK / BOULDER		

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.

LINETYPE LEGEND

EXISTING		PROPOSED	
	STORM DRAIN		
	SANITARY SEWER		
	SANITARY SEWER FORCEMAIN		
	WATER MAIN		
	GAS		
	OVERHEAD ELECTRIC		
	UNDERGROUND ELECTRIC		
	UNDERGROUND TELEPHONE		
	UNDERGROUND TV		
	OVERHEAD UTILITY		
	UNDERGROUND UTILITY		
	FIBER OPTIC		
	WETLAND		
	WATER EDGE		
	DITCH / SWALE		
	FENCE LINE		
	TREE LINE		
	PROPERTY / LOT LINE		
	RIGHT OF WAY LINE		
	ACCESS CONTROL		
	EASEMENT LINE		

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
ADD	ADDENDUM	GFE	GARAGE FLOOR ELEVATION	PVC	POLYVINYL CHLORIDE
AFF	ABOVE FINISHED FLOOR	GL	GUTTER LINE	PVMT	PAVEMENT
AGG	AGGREGATE	GPM	GALLONS PER MINUTE	QTY	QUANTITY
APPROX	APPROXIMATE	GV	GATE VALVE	R	RIM
ARCH	ARCHITECT, ARCHITECTURAL BASEMENT FLOOR	HDPE	HIGH DENSITY POLYETHYLENE	RAD	RADIUS
BFE	ELEVATION	HD	HEAVY DUTY	RCP	REINFORCED CONCRETE PIPE
BIT	BITUMINOUS	HH	HANDHOLE	RD	ROOF DRAIN
BLDG	BUILDING	HMA	HOT MIX ASPHALT	REBAR	REINFORCING BAR
BM	BENCHMARK	HORIZ	HORIZONTAL	REM	REMOVE
CAD	COMPUTER-AIDED DESIGN	HR	HOUR	ROW	RIGHT OF WAY
CB	CATCH BASIN	HWL	HIGH WATER LEVEL	R/W	RIGHT OF WAY
CFS	CUBIC FEET PER SECOND	HWY	HIGHWAY	SAN	SANITARY
CF	CUBIC FOOT	HYD	HYDRANT	SCH	SCHEDULE
CI	CAST IRON	I	INVERT	SF	SQUARE FOOT
CIP	CAST IRON PIPE	ID	INSIDE DIAMETER	SPEC	SPECIFICATION
CIPC	CAST IN PLACE CONCRETE	IN	INCH	SQ	SQUARE
CJ	CONTROL JOINT	INV	INVERT	STA	STATION
CL	CENTERLINE	IP	IRON PIPE	STM	STORM
OMP	CORRUGATED METAL PIPE	IPS	IRON PIPE SIZE	SY	SQUARE YARD
CO	CLEANOUT	J-BOX	JUNCTION BOX	TIC	TOP OF CURB
CONC	CONCRETE	JT	JOINT	TEL	TELEPHONE
CONST	CONSTRUCTION	LF	LINEAR FEET	TEMP	TEMPORARY
CONT	CONTINUOUS	LIN	LINEAR	THRU	THROUGH
CR	COUNTY ROAD	LPS	LOW PRESSURE	TN/FH	TOP NUT OF FIRE HYDRANT
CY	CUBIC YARD	LS	STEAM LUMP SUM LOWEST	TRANS	TRANSFORMER
C&G	CURB AND GUTTER	LSO	STRUCTURAL OPENING	TV	TELEVISION
DEMO	DEMOLITION	MAX	MAXIMUM	T/W	TOP OF WALL
DI	DROP INTAKE	MB	MAIL BOX	TYP	TYPICAL
DIA	DIAMETER	MECH	MECHANICAL	UT	UTILITY, UNDERGROUND
DIM	DIMENSION	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
DS	DOWNSPOUT	MIN	MINIMUM	W/O	WITHOUT
EA	EACH	MISC	MISCELLANEOUS	W/	WITH
ELEC	ELECTRICAL	NO	NUMBER	YD	YARD
ELEV	ELEVATION	NTS	NOT TO SCALE	YR	YEAR
EOF	EMERGENCY OVERFLOW	NWL	NORMAL WATER LEVEL		
EQ	EQUAL	OC	ON CENTER		
EX	EXISTING	OCEW	ON CENTER EACH WAY		
F/G	FORM GRADE	OH	OVERHEAD		
FDC	FIRE DEPARTMENT CONNECTION	OHWL	ORDINARY HIGH WATER LEVEL		
FDN	FOUNDATION	OHD	OVERHEAD DOOR		
FES	FLARED END SECTION	OZ	OUNCE		
FFE	FINISHED FLOOR ELEVATION	PCC	PORTLAND CEMENT CONCRETE		
FPM	FEET PER MINUTE	PED	PEDESTAL		
FPS	FEET PER SECOND	PERF	PERFORATED		
FT	FOOT, FEET	PL	PROPERTY LINE		
FTG	FOOTING	PP	POLYPROPYLENE		
GA	GAUGE				
GAL	GALLON				
GALV	GALVANIZED				

SURFACE DRAIN PIPE SCHEDULE

PIPE	STATION	LOCATION	PIPE SIZE (IN)	MATERIAL	PIPE LENGTH (FT)
SD-1	5+79	R	18	CMP	82
SD-2	14+33	L	18	CMP	55
SD-3	21+85	L	18	CMP	52
SD-4	27+92	R	18	CMP	61
SD-5	28+28	L	18	CMP	55
SD-6	28+20	L	36	CMP	61
SD-7	42+01	L	18	CMP	36
SD-8	53+67	R	18	CMP	46
SD-9	53+69	R	18	CMP	42
SD-10	55+13	L	24	CMP	59
SD-11	149+41	L	30	CMP	84

*LOCATION AS VIEWED IN THE DIRECTION OF INCREASING STATION

IRRIGATION CULVERT CROSSINGS

PIPE NO.	STATION	INLET ELEVATION	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE GRADE	PIPE LENGTH (FT)
P-99 (1)	174+16 to 174+04	1032.29	1032.28	30	CMP	0.08%	12
P-99 (2)	175+67 to 175+55	1032.40	1032.39	30	CMP	0.08%	12
P-99 (4)	178+88 to 178+76	1032.65	1032.64	30	CMP	0.08%	12
P-99 (5)	181+24 to 181+12	1032.83	1032.82	30	CMP	0.07%	12
P-99 (6)	183+17 to 183+05	1032.97	1032.96	30	CMP	0.08%	11
P-99 (7)	185+09 to 184+97	1033.12	1033.11	30	CMP	0.08%	12
P-99 (8)	187+36 to 187+24	1033.29	1033.28	30	CMP	0.08%	11
P-99 (9)	189+83 to 189+69	1033.48	1033.47	24	CMP	0.08%	15
P-99 (10)	192+73 to 192+59	1033.70	1033.69	24	CMP	0.08%	14
P-99 (12)	204+27 to 204+07	1034.57	1034.56	24	CMP	0.08%	19
P-99 (13)	207+16 to 207+01	1034.79	1034.78	24	CMP	0.08%	15
P-99 (14)	209+62 to 209+47	1034.98	1034.97	24	CMP	0.08%	15
P-99 (15)	212+07 to 211+95	1035.17	1035.16	24	CMP	0.08%	12
P-99 (16)	214+79 to 214+58	1035.37	1035.36	24	CMP	0.08%	21

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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-DETAILS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

LEGENDS-TABLES

SHEET

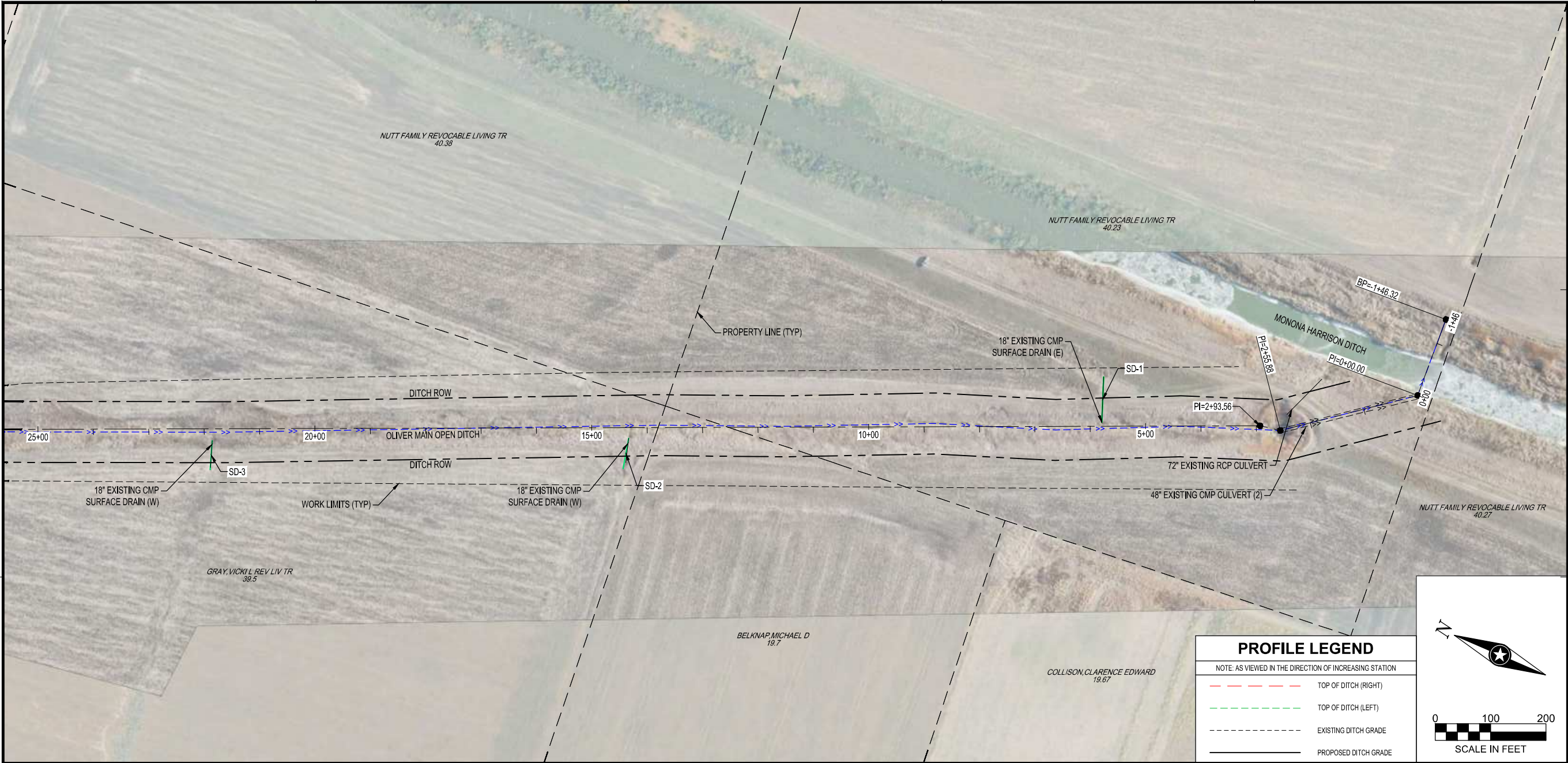
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PRELIMINARY NOT FOR CONSTRUCTION

Oliver Lake Main Only

Total Volume Table									
Station	Cut Area	Cut Volume	Reusbale Volume	Fill Area	Fill Volume	Cumulative Cut Vol	Cumulative Fill Vol	Cum. Reusable Vol.	Net Volume
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4+00.00	45.88	330.36	330.36	0.33	2.42	330.36	2.42	330.36	327.94
6+00.00	40.84	321.17	321.17	0.64	3.59	651.53	6.01	651.53	645.53
8+00.00	47.74	328.07	328.07	0.36	3.71	979.61	9.72	979.61	969.89
10+00.00	61.36	404.07	404.07	0.00	1.33	1383.67	11.04	1383.67	1372.63
12+00.00	60.64	451.85	451.85	0.00	0.00	1835.52	11.04	1835.52	1824.48
14+00.00	70.25	484.80	484.80	0.00	0.00	2320.32	11.04	2320.32	2309.28
16+00.00	79.60	555.03	555.03	0.00	0.00	2875.35	11.04	2875.35	2864.31
18+00.00	73.56	567.28	567.28	0.00	0.00	3442.63	11.04	3442.63	3431.59
20+00.00	85.87	590.49	590.49	0.00	0.00	4033.12	11.04	4033.12	4022.08
22+00.00	92.92	662.18	662.18	0.00	0.00	4695.30	11.04	4695.30	4684.26
24+00.00	76.96	629.18	629.18	0.00	0.00	5324.48	11.04	5324.48	5313.44
26+00.00	61.51	512.84	512.84	0.00	0.00	5837.32	11.04	5837.32	5826.28
28+00.00	74.36	502.59	502.59	0.00	0.00	6339.91	11.04	6339.91	6328.87
30+00.00	64.26	512.95	512.95	0.00	0.00	6852.86	11.04	6852.86	6841.82
32+00.00	71.52	502.89	502.89	0.00	0.00	7355.75	11.04	7355.75	7344.71
34+00.00	77.40	551.56	551.56	0.00	0.00	7907.31	11.04	7907.31	7896.27
36+00.00	74.44	562.36	562.36	0.00	0.00	8469.66	11.04	8469.66	8458.62
38+00.00	72.86	545.53	545.53	0.00	0.00	9015.20	11.04	9015.20	9004.15
40+00.00	61.95	499.31	499.31	0.00	0.00	9514.50	11.04	9514.50	9503.46
42+00.00	69.81	488.01	488.01	0.00	0.00	10002.51	11.04	10002.51	9991.47
44+00.00	68.72	513.05	513.05	0.00	0.00	10515.56	11.04	10515.56	10504.52
46+00.00	65.67	497.74	497.74	0.00	0.00	11013.29	11.04	11013.29	11002.25
48+00.00	96.98	602.43	602.43	0.00	0.00	11615.73	11.04	11615.73	11604.69
50+00.00	95.26	712.00	712.00	0.00	0.00	12327.73	11.04	12327.73	12316.68
52+00.00	62.96	585.98	585.98	0.00	0.00	12913.71	11.04	12913.71	12902.67
54+00.00	39.03	377.74	377.74	0.00	0.00	13291.45	11.04	13291.45	13280.41
56+00.00	70.77	406.68	406.68	0.00	0.00	13698.13	11.04	13698.13	13687.09
58+00.00	78.66	553.46	553.46	0.00	0.00	14251.59	11.04	14251.59	14240.55
60+00.00	59.52	511.77	511.77	0.00	0.00	14763.36	11.04	14763.36	14752.32
62+00.00	53.40	418.22	418.22	0.00	0.00	15181.58	11.04	15181.58	15170.53
64+00.00	53.36	395.43	395.43	0.00	0.00	15577.01	11.04	15577.01	15565.96
66+00.00	45.99	367.96	367.96	0.00	0.00	15944.97	11.04	15944.97	15933.93
68+00.00	32.27	289.80	289.80	0.00	0.00	16234.77	11.04	16234.77	16223.73
70+00.00	25.85	214.54	214.54	0.00	0.00	16449.31	11.04	16449.31	16438.26
72+00.00	29.07	202.70	202.70	0.00	0.00	16652.01	11.04	16652.01	16640.96
74+00.00	21.26	186.31	186.31	0.00	0.00	16838.31	11.04	16838.31	16827.27
76+00.00	2.08	86.36	86.36	0.34	1.28	16924.67	12.32	16924.67	16912.35
78+00.00	38.38	149.80	149.80	0.00	1.26	17074.47	13.58	17074.47	17060.89
80+00.00	27.37	243.51	243.51	0.00	0.00	17317.98	13.58	17317.98	17304.40
82+00.00	29.02	208.75	208.75	0.00	0.00	17526.73	13.58	17526.73	17513.15
84+00.00	33.63	231.96	231.96	0.00	0.00	17758.69	13.58	17758.69	17745.11
86+00.00	42.10	281.06	281.06	0.00	0.00	18039.75	13.58	18039.75	18026.17
88+00.00	55.34	360.90	360.90	0.00	0.00	18400.65	13.58	18400.65	18387.07
90+00.00	55.14	409.44	409.44	0.00	0.00	18810.09	13.58	18810.09	18796.51
92+00.00	68.75	458.87	458.87	0.00	0.00	19268.96	13.58	19268.96	19255.38
94+00.00	42.68	412.80	412.80	0.00	0.00	19681.76	13.59	19681.76	19668.18
96+00.00	45.06	324.86	324.86	0.00	0.00	20006.62	13.59	20006.62	19993.04
98+00.00	40.05	315.16	315.16	0.00	0.00	20321.78	13.59	20321.78	20308.19
100+00.00	46.83	321.80	321.80	0.00	0.00	20643.58	13.59	20643.58	20630.00
102+00.00	31.81	291.26	291.26	0.00	0.00	20934.85	13.59	20934.85	20921.26
104+00.00	29.66	227.65	227.65	0.00	0.00	21162.50	13.59	21162.50	21148.91
106+00.00	22.45	192.99	192.99	0.00	0.00	21355.48	13.59	21355.48	21341.90
108+00.00	17.69	148.68	148.68	0.00	0.00	21504.16	13.59	21504.16	21490.58

Total Volume Table									
Station	Cut Area	Cut Volume	Reusbale Volume	Fill Area	Fill Volume	Cumulative Cut Vol	Cumulative Fill Vol	Cum. Reusable Vol.	Net Volume
110+00.00	15.50	122.93	122.93	0.00	0.00	21627.10	13.59	21627.10	21613.51
112+00.00	14.55	111.29	111.29	0.00	0.00	21738.38	13.59	21738.38	21724.80
114+00.00	13.81	105.04	105.04	0.00	0.00	21843.42	13.59	21843.42	21829.84
116+00.00	10.82	91.17	91.17	0.00	0.00	21934.59	13.59	21934.59	21921.01
118+00.00	10.72	79.72	79.72	0.00	0.00	22014.31	13.59	22014.31	22000.73
120+00.00	11.87	83.66	83.66	0.00	0.00	22097.97	13.59	22097.97	22084.38
122+00.00	12.33	89.65	89.65	0.00	0.00	22187.62	13.59	22187.62	22174.04
124+00.00	11.23	87.29	87.29	0.00	0.00	22274.92	13.59	22274.92	22261.33
126+00.00	10.32	79.80	79.80	0.00	0.00	22354.72	13.59	22354.72	22341.14
128+00.00	9.17	72.15	72.15	0.00	0.00	22426.87	13.59	22426.87	22413.28
130+00.00	9.81	70.29	70.29	0.00	0.00	22497.16	13.59	22497.16	22483.58
132+00.00	16.10	95.88	95.88	0.00	0.00	22593.04	13.59	22593.04	22579.45
134+00.00	7.89	88.82	88.82	0.00	0.00	22681.86	13.59	22681.86	22668.27
136+00.00	6.61	53.69	53.69	0.00	0.00	22735.55	13.59	22735.55	22721.96
138+00.00	15.24	80.91	80.91	0.00	0.00	22816.46	13.59	22816.46	22802.88
140+00.00	11.39	98.62	98.62	0.00	0.00	22915.09	13.59	22915.09	22901.50
142+00.00	21.50	121.79	121.79	0.00	0.00	23036.87	13.59	23036.87	23023.29
144+00.00	16.54	140.79	140.79	0.00	0.00	23177.66	13.59	23177.66	23164.08
146+00.00	17.05	124.31	124.31	0.00	0.00	23301.97	13.59	23301.97	23288.39
148+00.00	1.48	68.59	68.59	1.51	5.62	23370.56	19.20	23370.56	23351.36
150+00.00	22.35	88.22	88.22	0.00	5.61	23458.78	24.81	23458.78	23433.97
152+00.00	9.42	117.78	117.78	0.00	0.00	23576.55	24.81	23576.55	23551.74
154+00.00	4.84	52.84	52.84	0.00	0.00	23629.39	24.81	23629.39	23604.58
156+00.00	5.70	39.04	39.04	0.00	0.01	23668.43	24.83	23668.43	23643.60
158+00.00	10.79	61.07	61.07	0.00	0.01	23729.50	24.84	23729.50	23704.66
160+00.00	2.34	48.65	48.65	0.06	0.23	23778.15	25.07	23778.15	23753.08
162+00.00	0.05	8.85	8.85	2.60	9.88	23787.00	34.95	23787.00	23752.05
164+00.00	1.65	6.28	6.28	0.14	10.17	23793.28	45.13	23793.28	23748.15
166+00.00	8.52	37.68	37.68	0.00	0.52	23830.96	45.65	23830.96	23785.31
168+00.00	7.98	61.11	61.11	0.00	0.00	23892.07	45.65	23892.07	23846.42
170+00.00	11.17	70.93	70.93	0.00	0.00	23963.00	45.65	23963.00	23917.35
172+00.00	3.48	54.46	54.46	4.19	15.48	24017.46	61.13	24017.46	23956.33
174+00.00	32.43	132.87	132.87	0.00	15.59	24150.33	76.72	24150.33	24073.61
176+00.00	14.38	173.39	173.39	0.00	0.00	24323.72	76.72	24323.72	24247.00
178+00.00	6.30	76.61	76.61	0.00	0.00	24400.33	76.72	24400.33	24323.61
180+00.00	30.36	135.85	135.85	0.00	0.00	24536.18	76.72	24536.18	24459.46
182+00.00	21.39	190.94	190.94	0.00	0.00	24727.12	76.72	24727.12	24650.40
184+00.00	35.05	209.03	209.03	0.00	0.00	24936.15	76.72	24936.15	24859.43
186+00.00	33.24	252.93	252.93	0.00	0.00	25189.07	76.72	25189.07	25112.35
188+00.00	62.07	353.00	353.00	0.00	0.00	25542.08	76.72	25542.08	25465.36
190+00.00	41.66	384.19	384.19	0.00	0.00	25926.27	76.72	25926.27	25849.54
192+00.00	34.50	282.08	282.08	0.00	0.00	26208.35	76.72	26208.35	26131.63
194+00.00	47.03	301.95	301.95	0.00	0.00	26510.29	76.72	26510.29	26433.57
196+00.00	37.98	314.85	314.85	0.00	0.00	26825.14	76.72	26825.14	26748.42
198+00.00	31.51	257.38	257.38	0.00	0.00	27082.52	76.72	27082.52	27005.80
200+00.00	36.70	252.65	252.65	0.00	0.00	27335.17	76.72	27335.17	27258.45
202+00.00	36.44	270.88	270.88	0.00	0.00	27606.05	76.72	27606.05	27529.33
204+00.00	26.00	231.23	231.23	0.00	0.00	27837.28	76.72	27837.28	27760.56
206+00.00	33.34	219.78	219.78	0.00	0.00	28057.07	76.72	28057.07	27980.35
208+00.00	33.21	246.50	246.50	0.00	0.00	28303.57	76.72	28303.57	28226.84
210+00.00	23.99	211.84	211.84	0.00	0.00	28515.41	76.72	28515.41	28438.69
212+00.00	53.44	286.62	286.62	0.00	0.00	28802.02	76.72	28802.02	28725.30
214+00.00	7.59	226.00	226.00	0.00	0.00	29028.03	76.72	29028.03	28951.30



PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- EXISTING DITCH GRADE
- PROPOSED DITCH GRADE

North Arrow

Scale in Feet: 0, 100, 200



SHEET NOT VALID UNLESS THIS TEXT IS COLOR.

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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

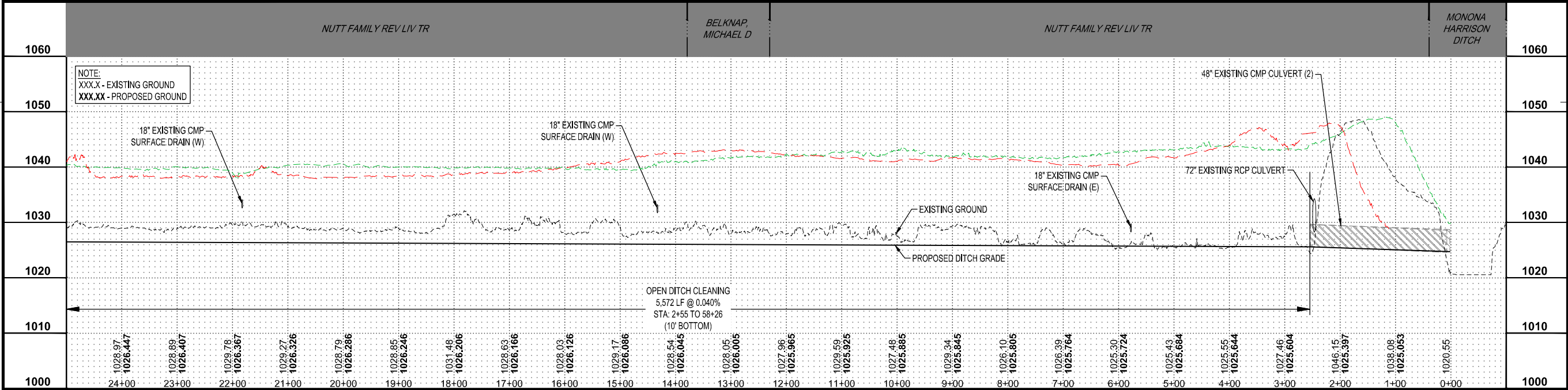
PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

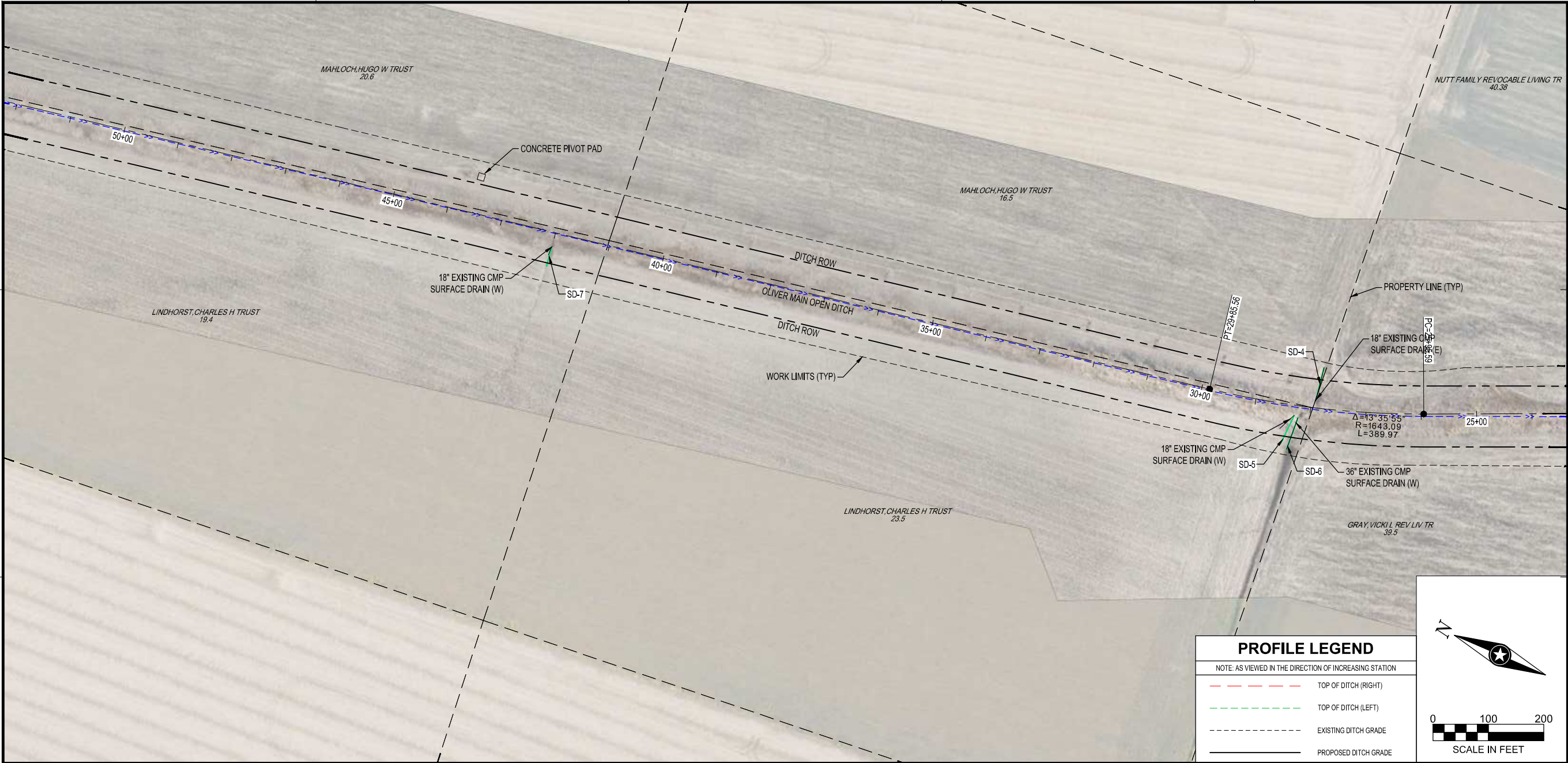
**PLAN - PROFILE
OLIVER LAKE
MAIN**

SHEET

D.01



PRELIMINARY NOT FOR CONSTRUCTION



PROFILE LEGEND

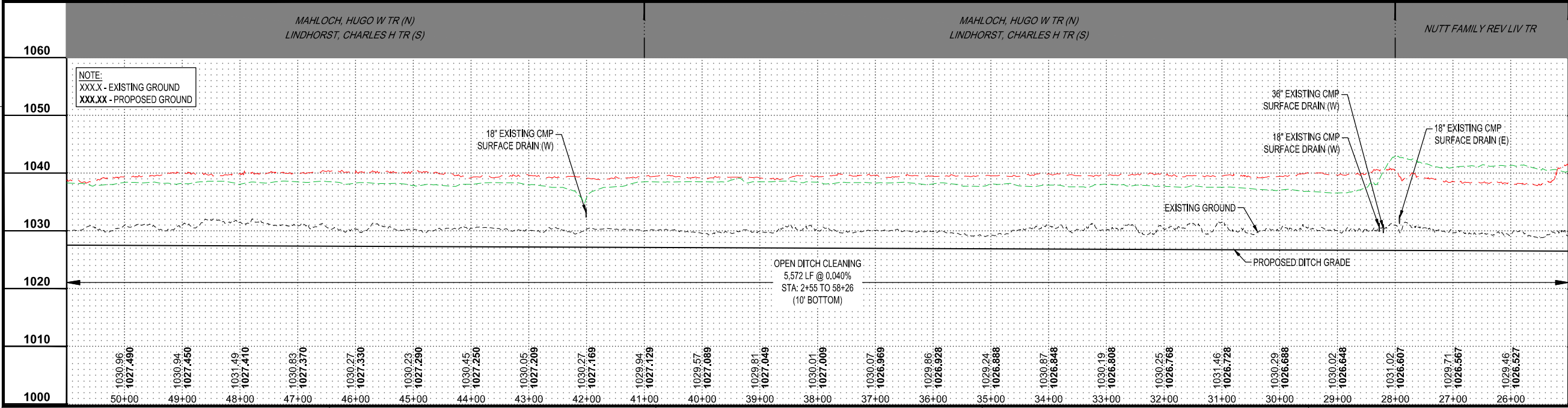
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

TOP OF DITCH (RIGHT)

TOP OF DITCH (LEFT)

0100200

SCALE IN FEET



ISG

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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO. 24-32018

FILE NAME 32018-PROFILES

DRAWN BY JAT

DESIGNED BY RAM

REVIEWED BY CDR

ORIGINAL ISSUE DATE -/-/-

CLIENT PROJECT NO. -

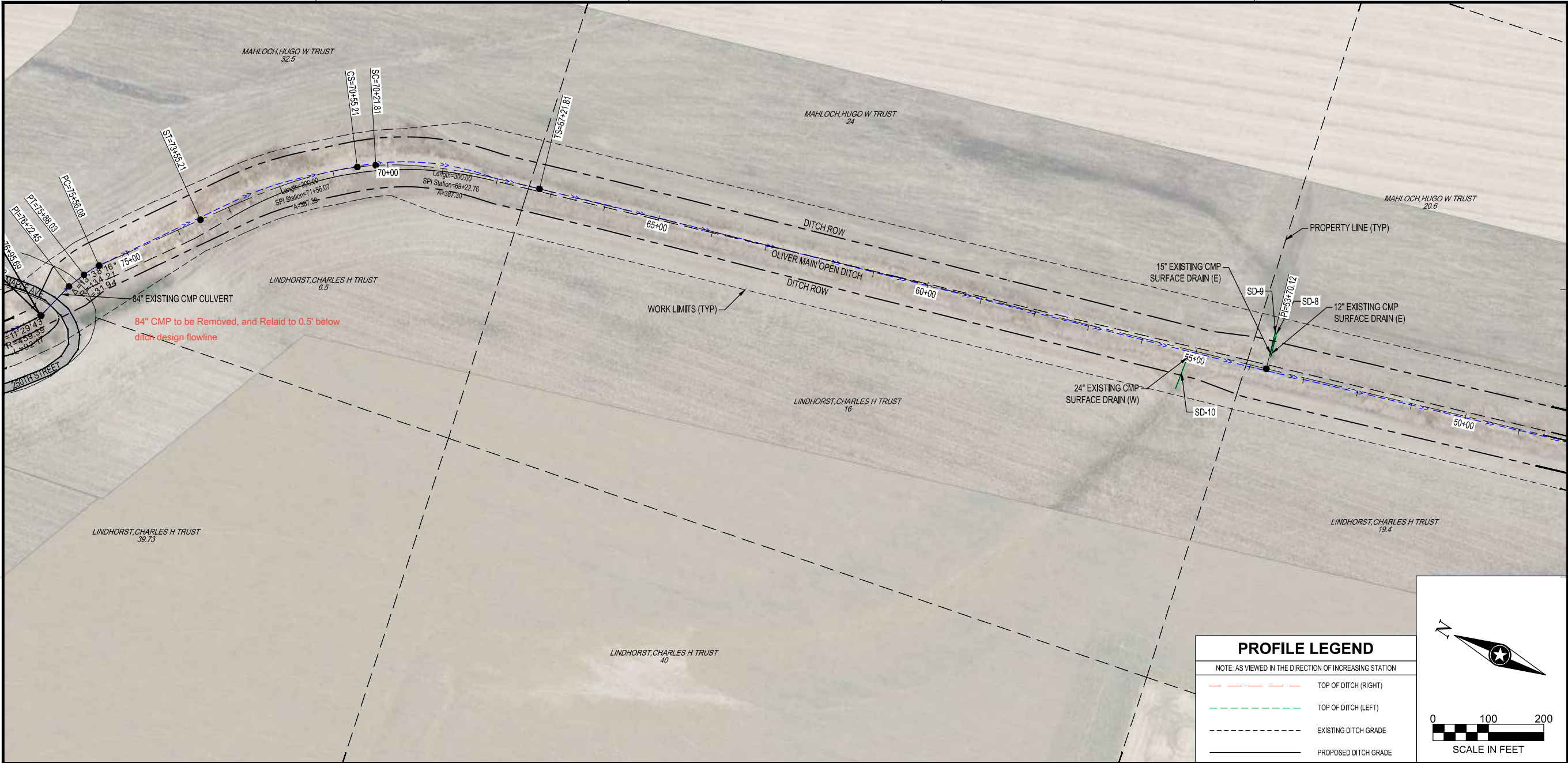
TITLE

PLAN - PROFILE
OLIVER LAKE
MAIN

SHEET

D.02

PRELIMINARY NOT FOR CONSTRUCTION



PROFILE LEGEND

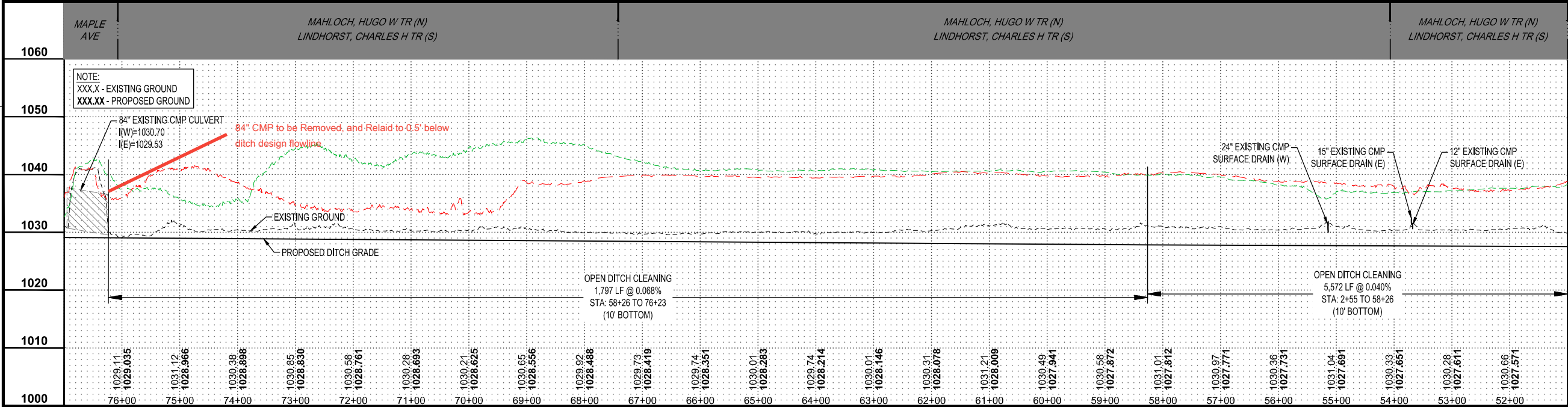
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

TOP OF DITCH (RIGHT)

TOP OF DITCH (LEFT)

0100200

SCALE IN FEET



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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

**PLAN - PROFILE
OLIVER LAKE
MAIN**

SHEET

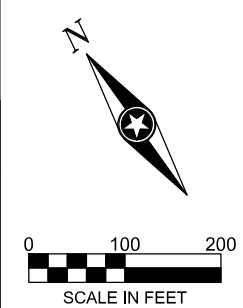
D.03



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PROFILE LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	TOP OF DITCH (RIGHT)
	TOP OF DITCH (LEFT)
	EXISTING DITCH GRADE
	PROPOSED DITCH GRADE



PROJECT

OLIVER LAKE MAIN OPEN DITCH REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

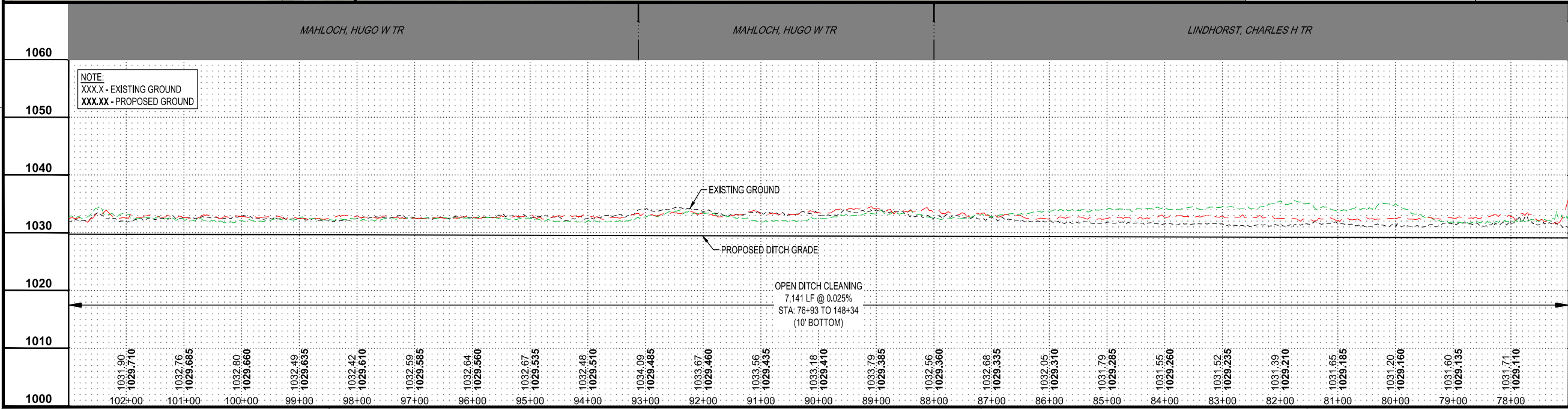
PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

PLAN - PROFILE OLIVER LAKE MAIN

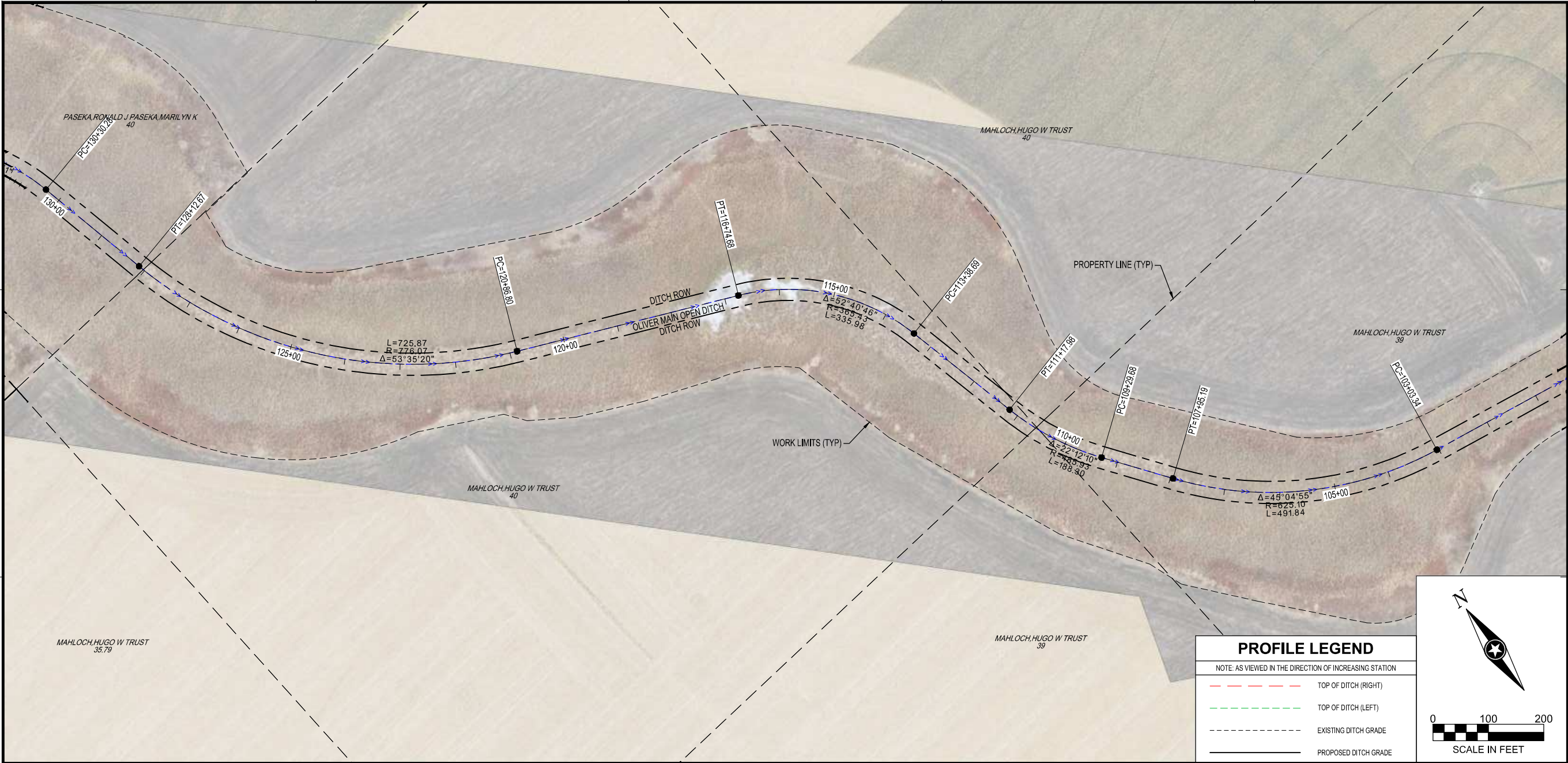
SHEET

D.04



1060	MAHLOCH, HUGO W TR	1060
1050	MAHLOCH, HUGO W TR	1050
1040	LINDHORST, CHARLES H TR	1040
1030	LINDHORST, CHARLES H TR	1030
1020	LINDHORST, CHARLES H TR	1020
1010	LINDHORST, CHARLES H TR	1010
1000	LINDHORST, CHARLES H TR	1000

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PROJECT

OLIVER LAKE MAIN OPEN DITCH REPAIR

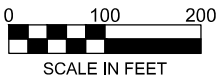
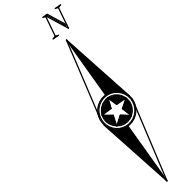
MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

PLAN - PROFILE OLIVER LAKE MAIN

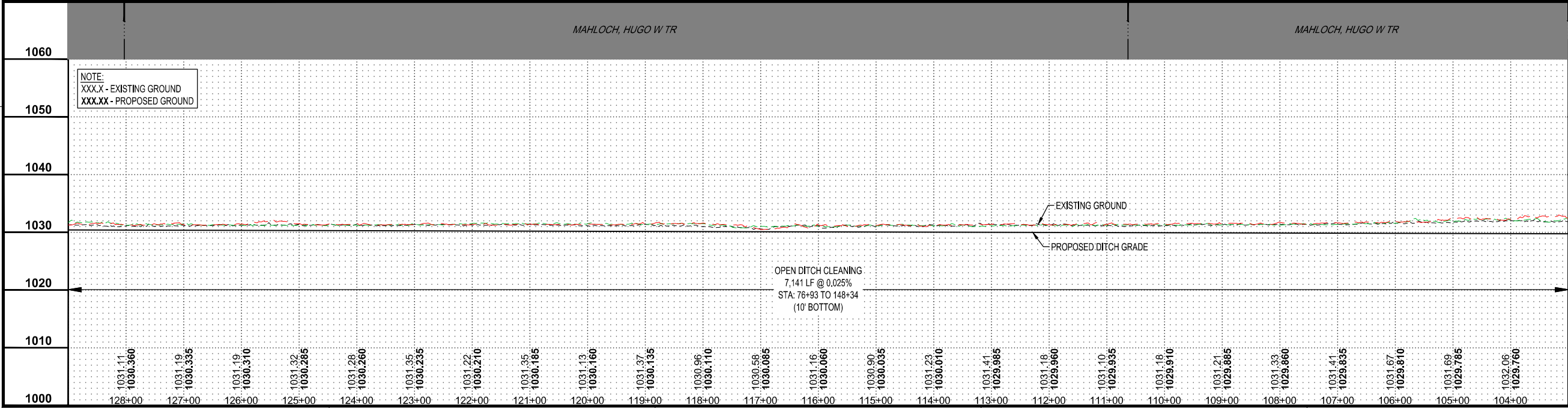
SHEET
D.05

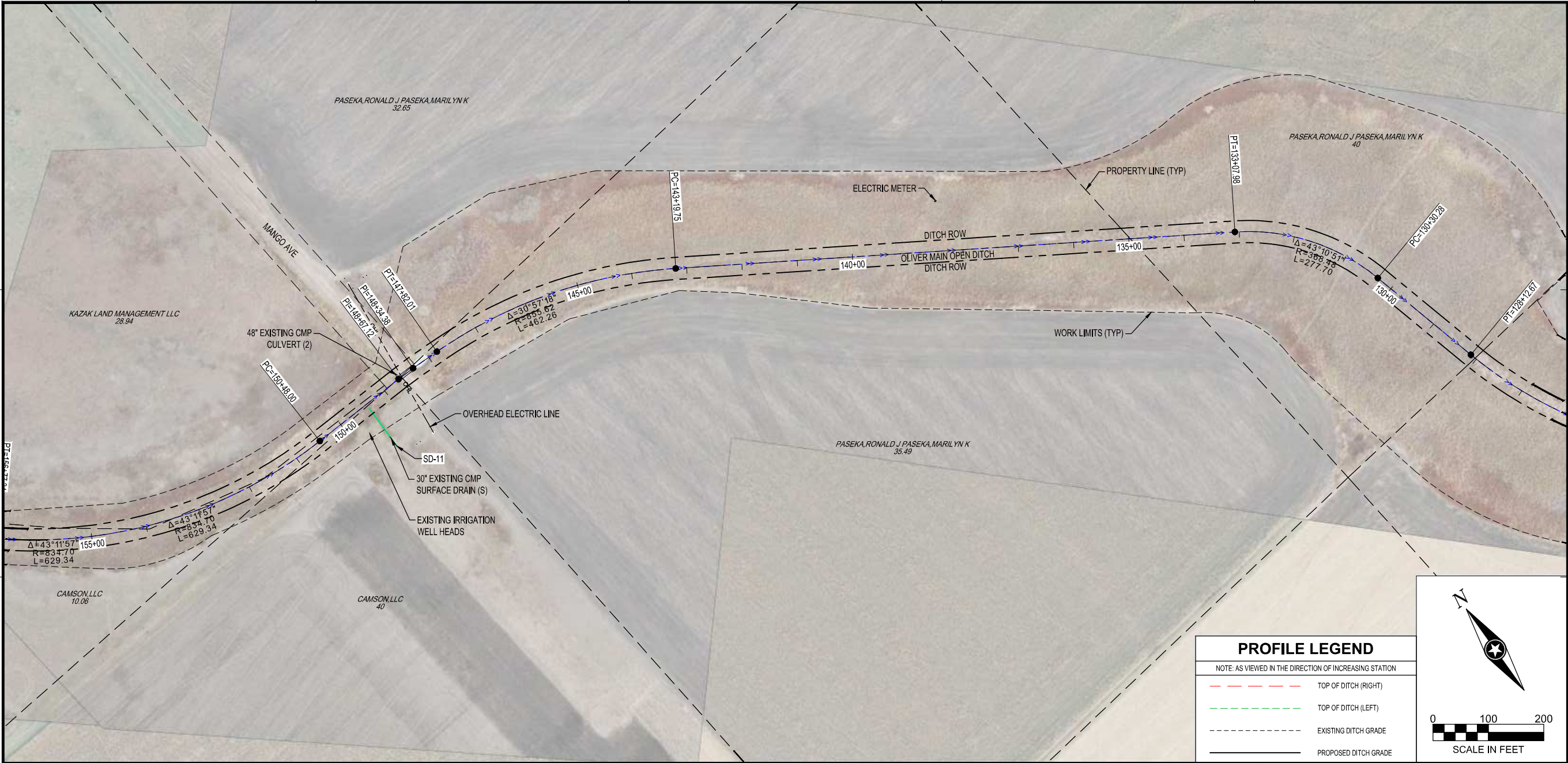


PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

- TOP OF DITCH (RIGHT)
- TOP OF DITCH (LEFT)
- EXISTING DITCH GRADE
- PROPOSED DITCH GRADE





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PROJECT

OLIVER LAKE MAIN OPEN DITCH REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

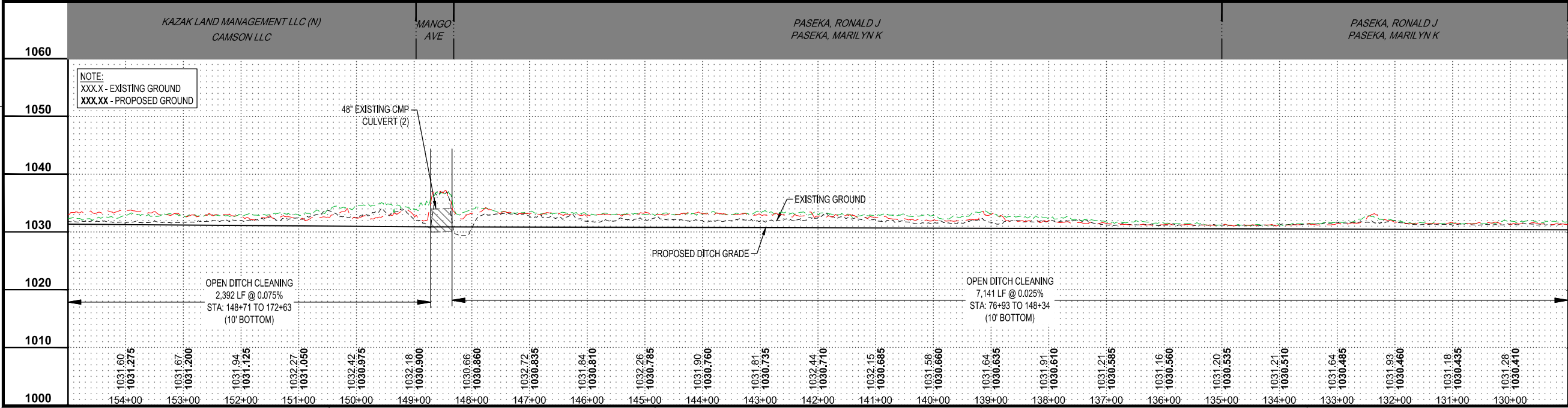
PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

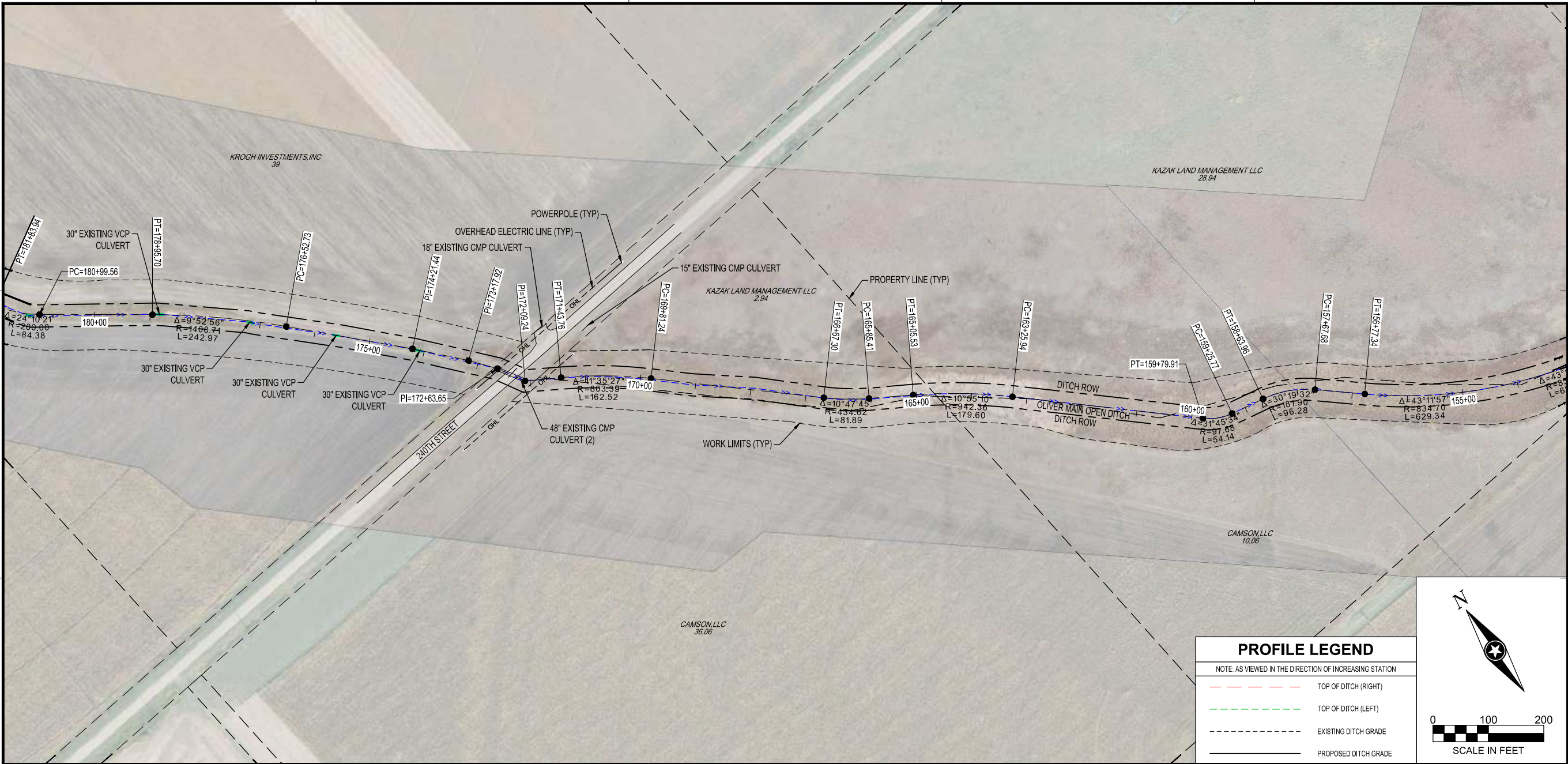
PLAN - PROFILE OLIVER LAKE MAIN

SHEET

D.06



PRELIMINARY NOT FOR CONSTRUCTION



PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

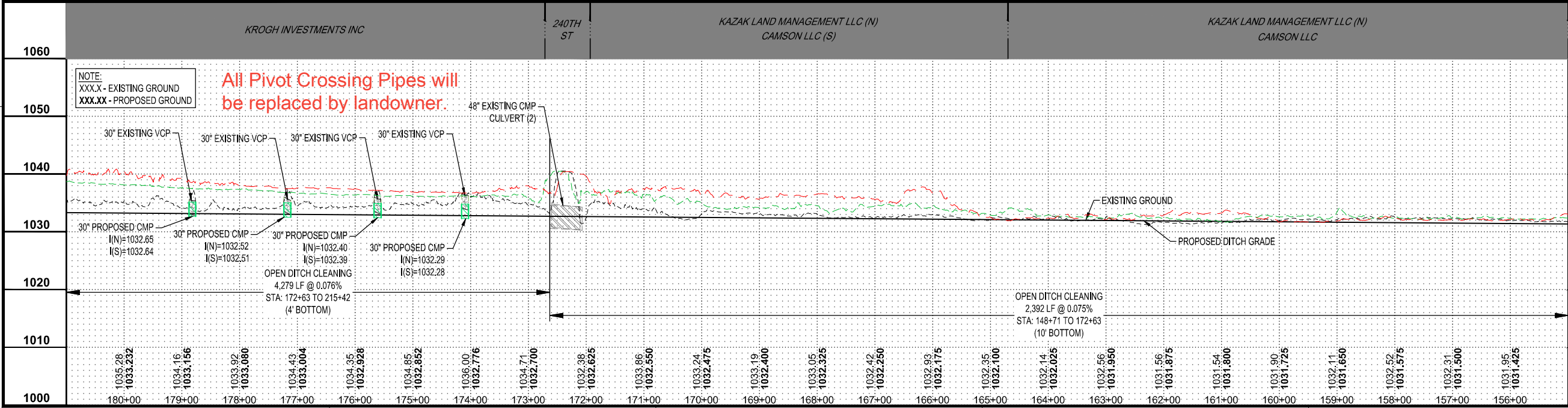
TOP OF DITCH (RIGHT)

TOP OF DITCH (LEFT)

EXISTING DITCH GRADE

0100200

SCALE IN FEET



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTYIOWA

REVISION SCHEDULE

DATE

DESCRIPTION

BY

PROJECT NO.

24-32018

FILE NAME

32018-PROFILES

DRAWN BY

JAT

DESIGNED BY

RAM

REVIEWED BY

CDR

ORIGINAL ISSUE DATE

11/1/24

CLIENT PROJECT NO.

-

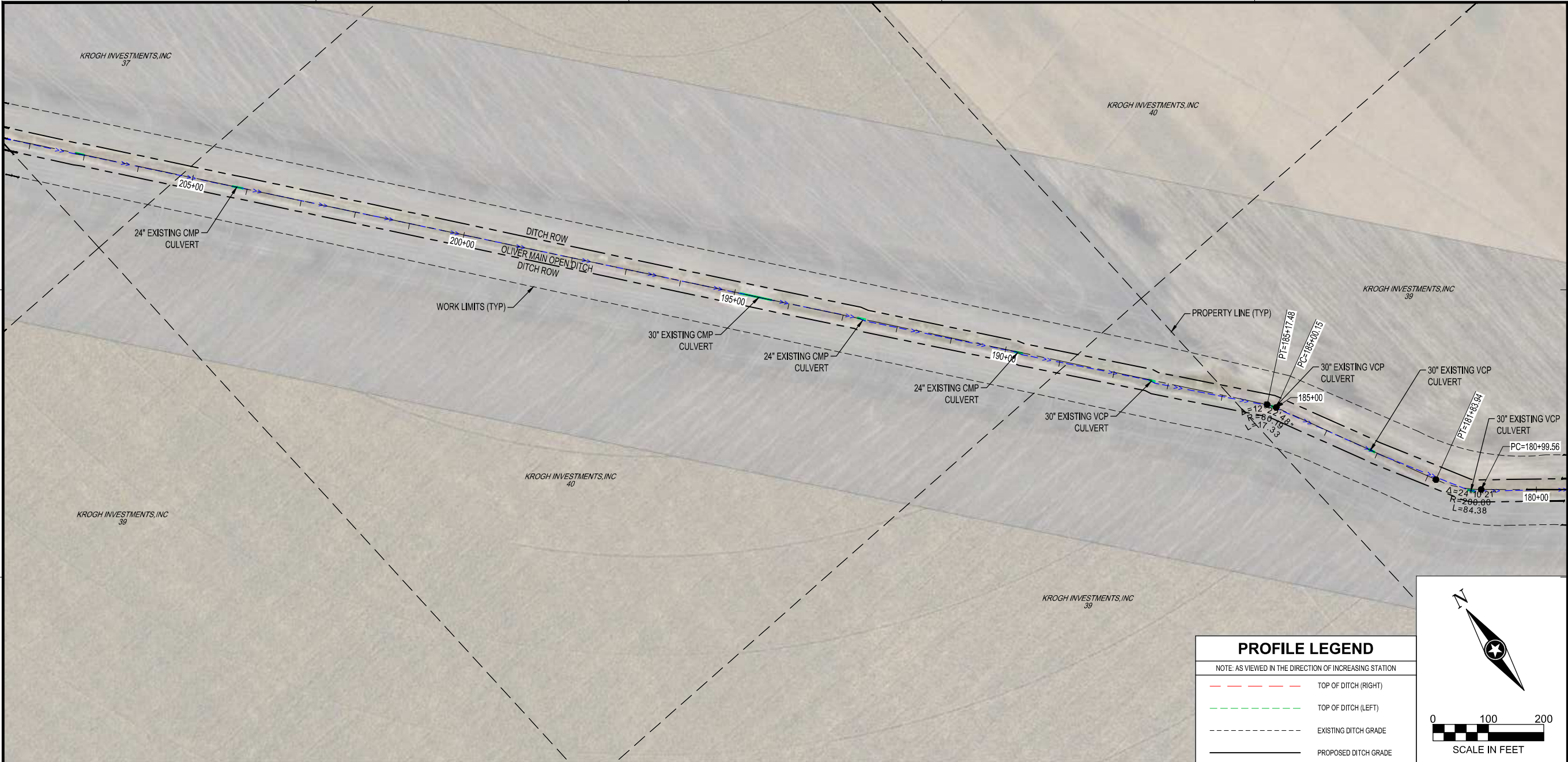
TITLE

PLAN - PROFILE
OLIVER LAKE
MAIN

SHEET

D.07

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PROJECT

OLIVER LAKE MAIN OPEN DITCH REPAIR

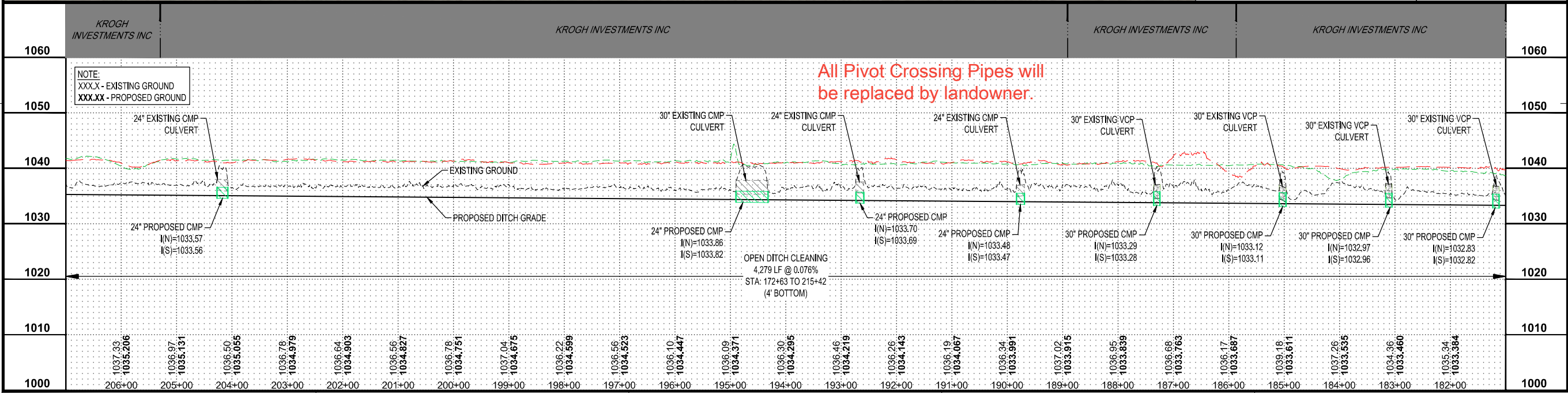
MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

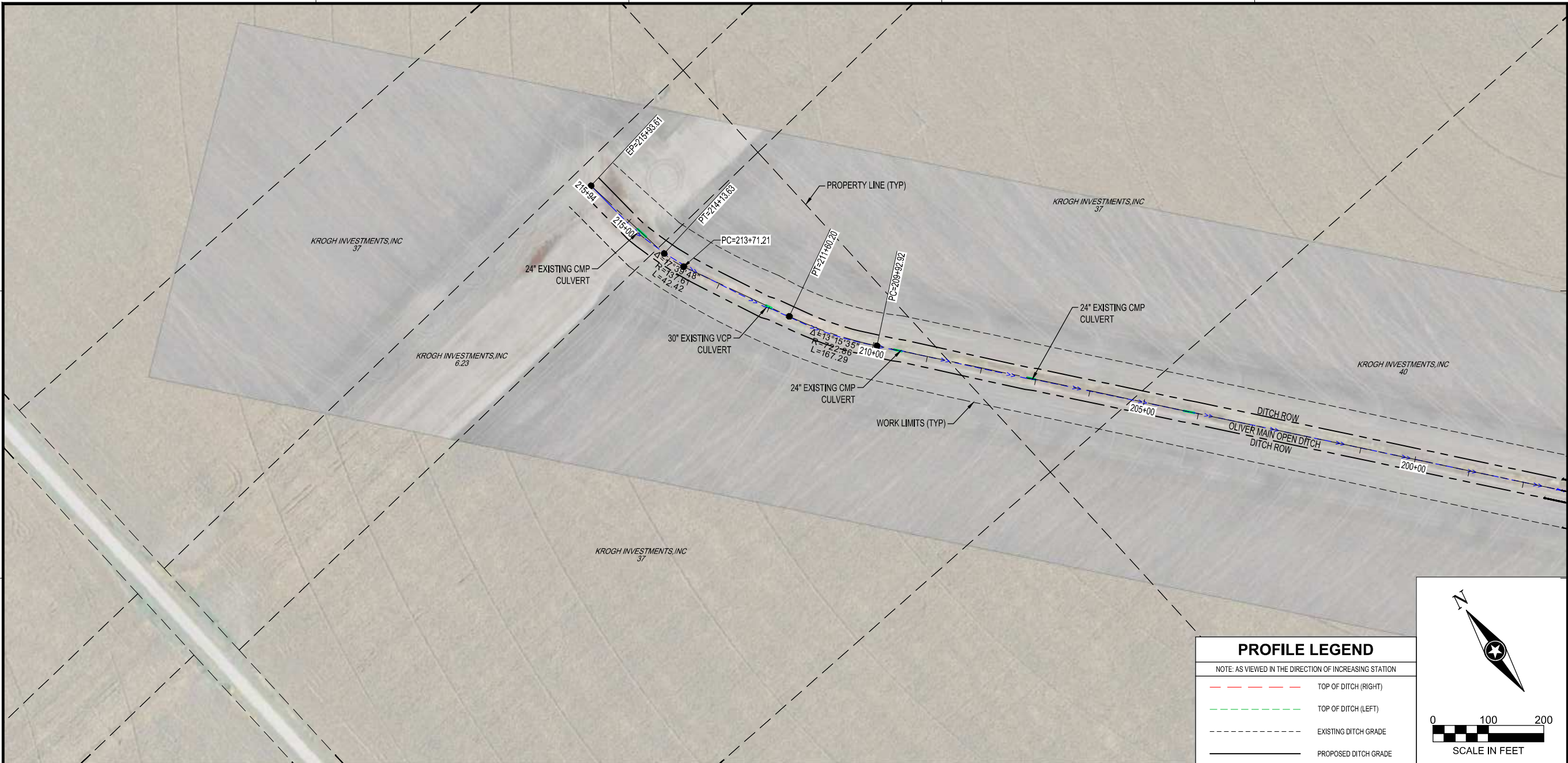
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FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

PLAN - PROFILE OLIVER LAKE MAIN

SHEET
D.08



PRELIMINARY NOT FOR CONSTRUCTION



PROFILE LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

TOP OF DITCH (RIGHT)

TOP OF DITCH (LEFT)

0100200

SCALE IN FEET

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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTYIOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

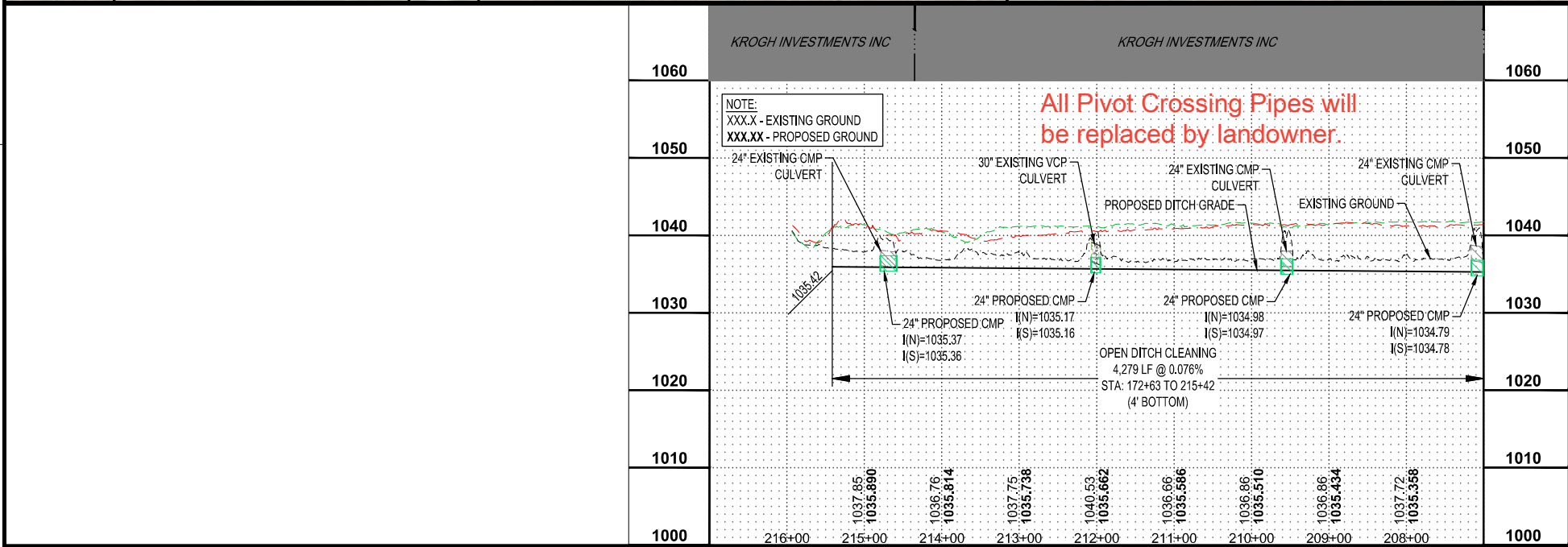
PROJECT NO.	24-32018
FILE NAME	32018-PROFILES
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

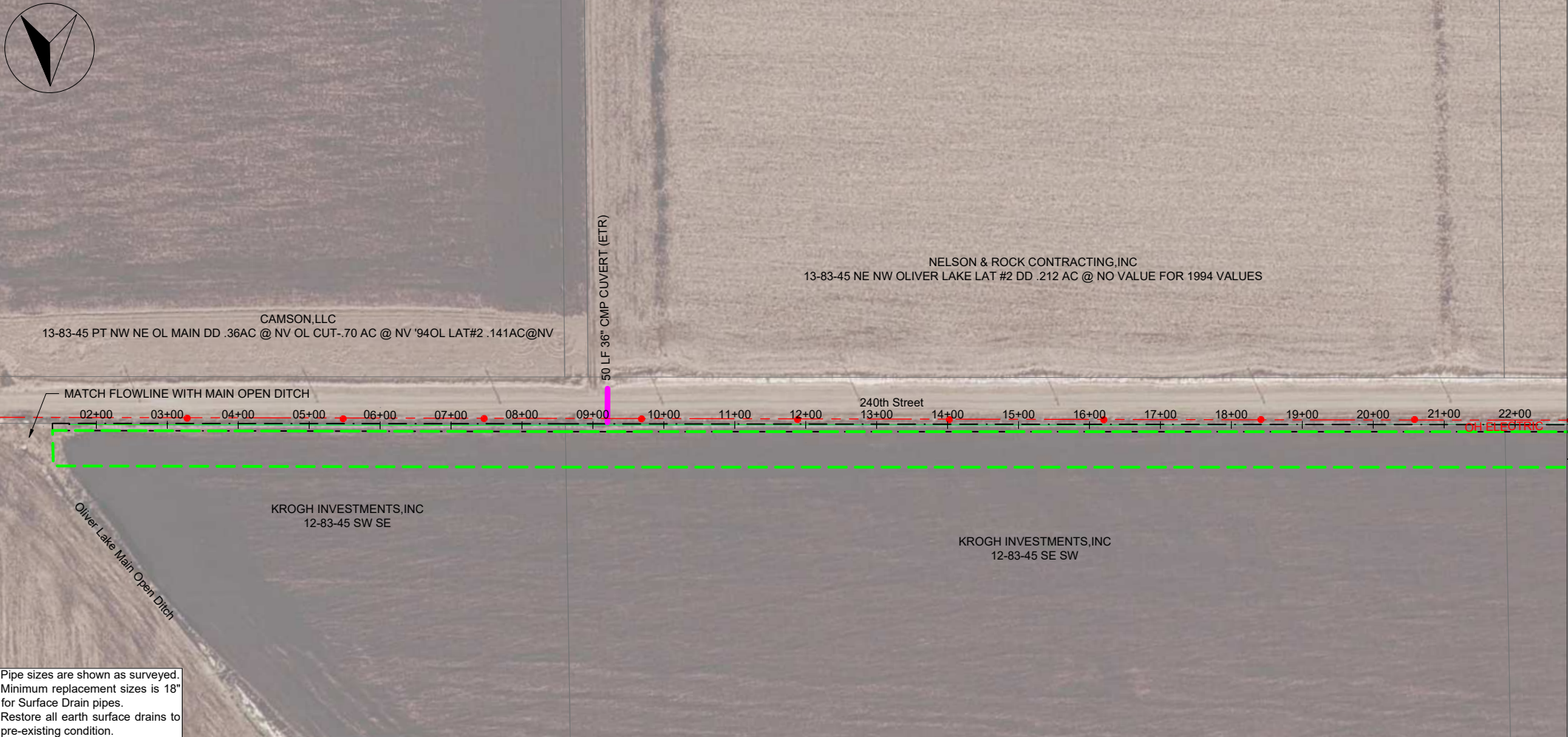
TITLE

PLAN - PROFILE
OLIVER LAKE
MAIN

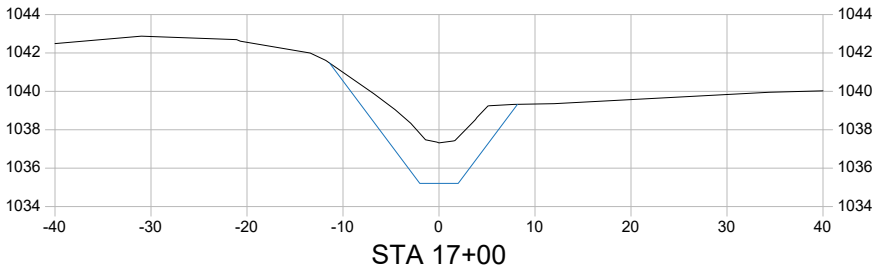
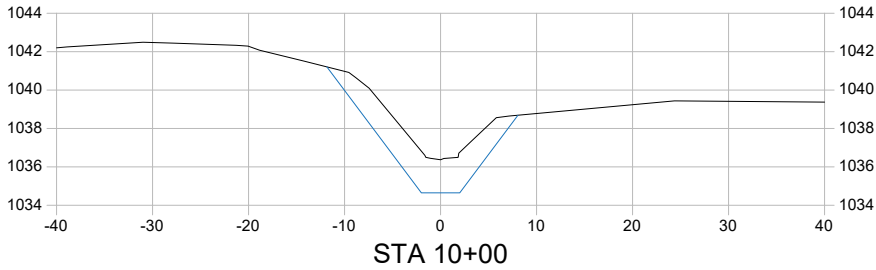
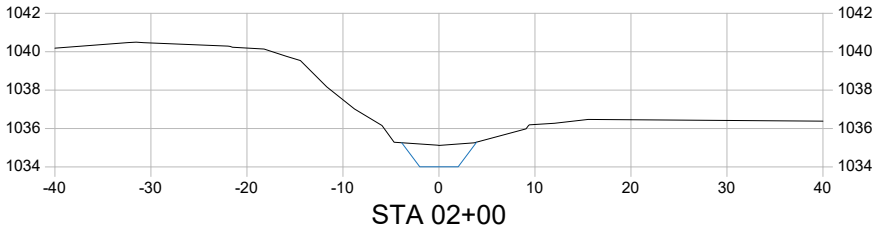
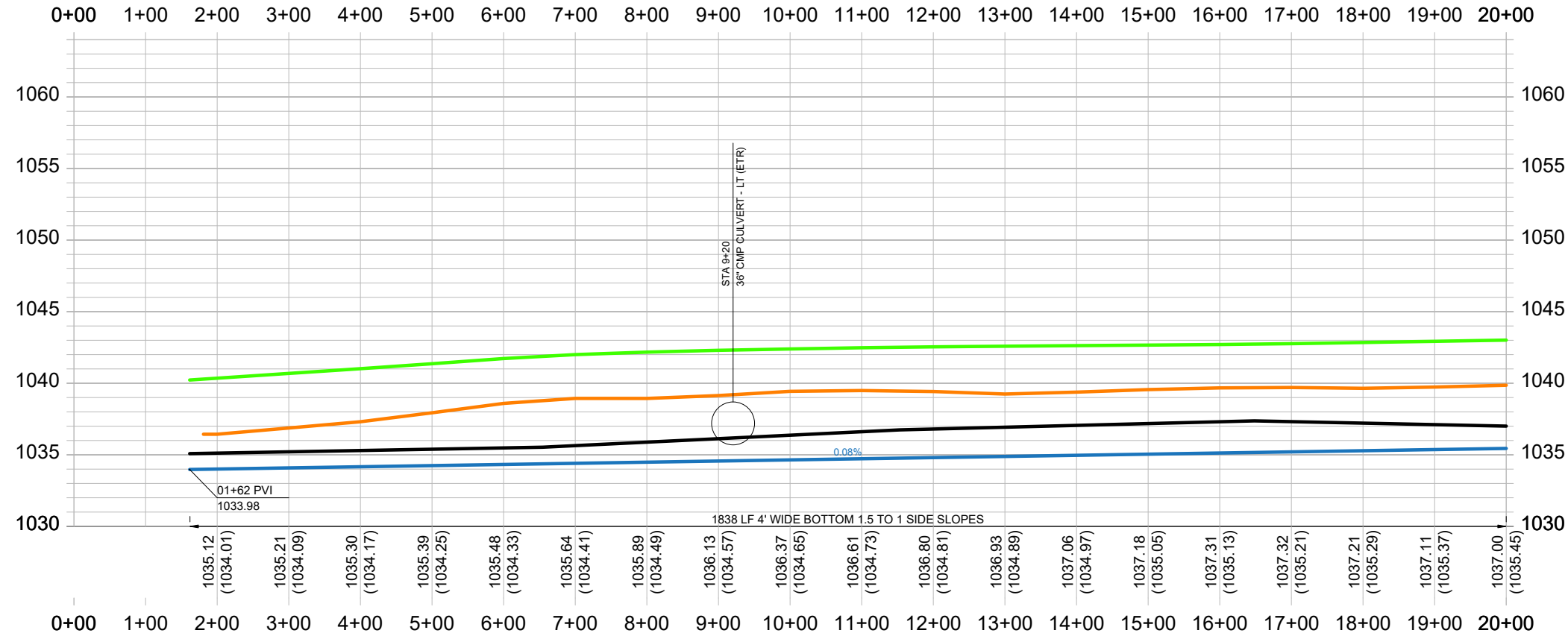
SHEET

D.09





Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18"
for Surface Drain pipes.
Restore all earth surface drains to
pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer

Drafter
JLH
Checker
JLH

PLAN LEGEND

- Parcel Lines
- Work Area on Private Land (50' Wide)
- Ditch ROW on Private Land (10')
- Surface Drains
- Tile Outlets
- Utilities (in red)
- Power Poles

PROFILE LEGEND

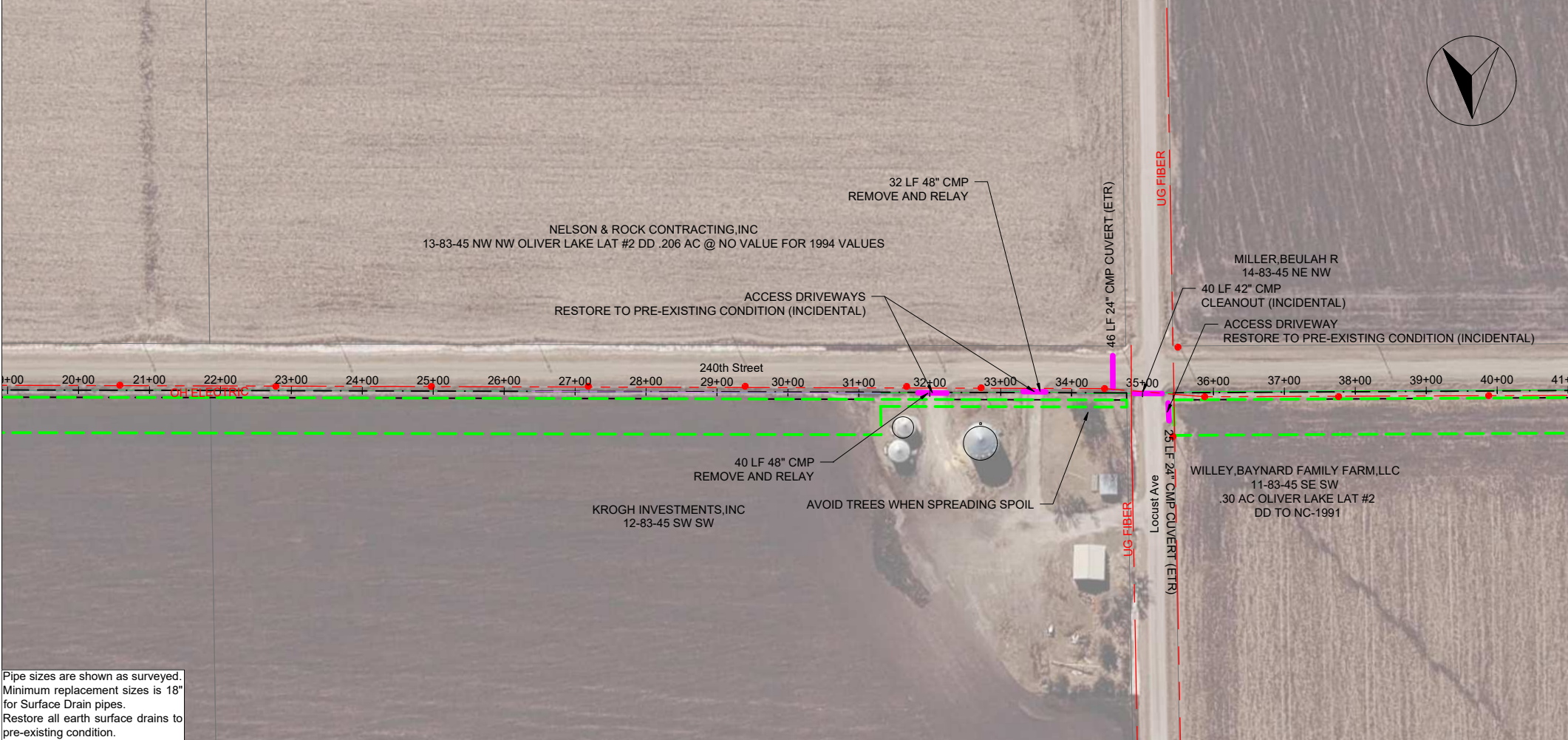
- Design Ditch Grade
- Surveyed Ditch Bottom
- Left Top of Bank
- Right Top of Bank

No.	Revision/Issue	Date

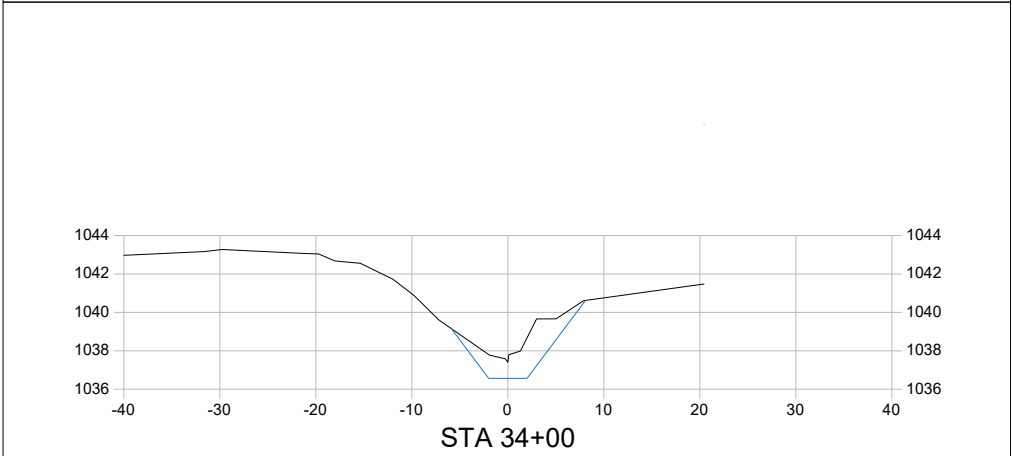
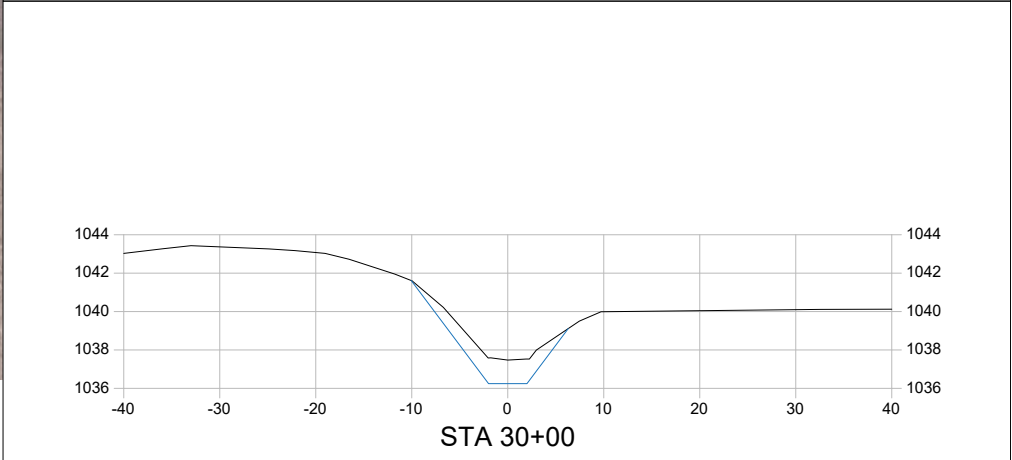
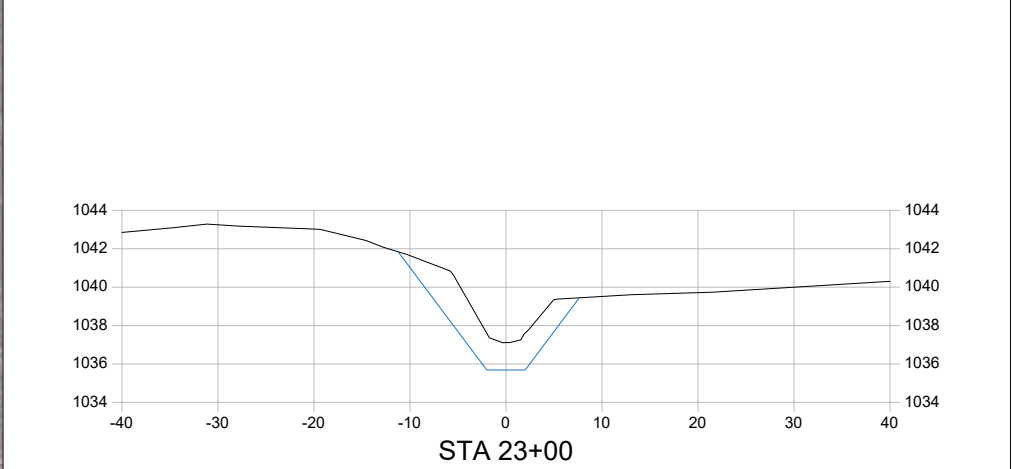
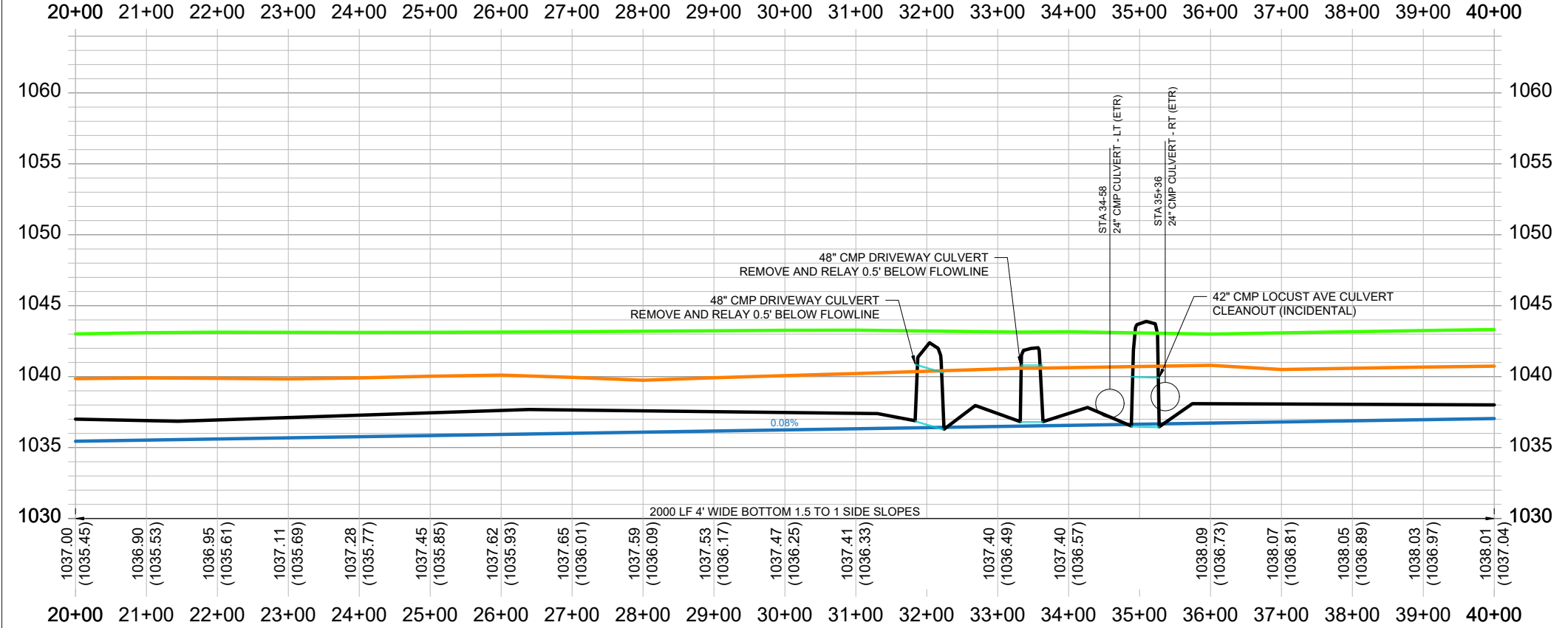
Sheet Name
Plan & Profile - Lat. 2
STA 0+00 → 20+00

Project Name, Client, and Address
Open Ditch Repairs
Oliver Lake Drainage District Lateral No. 2
Monona County, IA
240th St & Locust Ave

Project 2613-67	D.10
Date 2026-06-10	
Plan Scale 1"=200'	



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18"
for Surface Drain pipes.
Restore all earth surface drains to
pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
JLH
JLH

PLAN LEGEND

- Parcel Lines
- Work Area on Private Land (50' Wide)
- Ditch ROW on Private Land (10')
- Surface Drains
- Tile Outlets
- Utilities (in red)
- Power Poles

PROFILE LEGEND

- Design Ditch Grade
- Surveyed Ditch Bottom
- Left Top of Bank
- Right Top of Bank

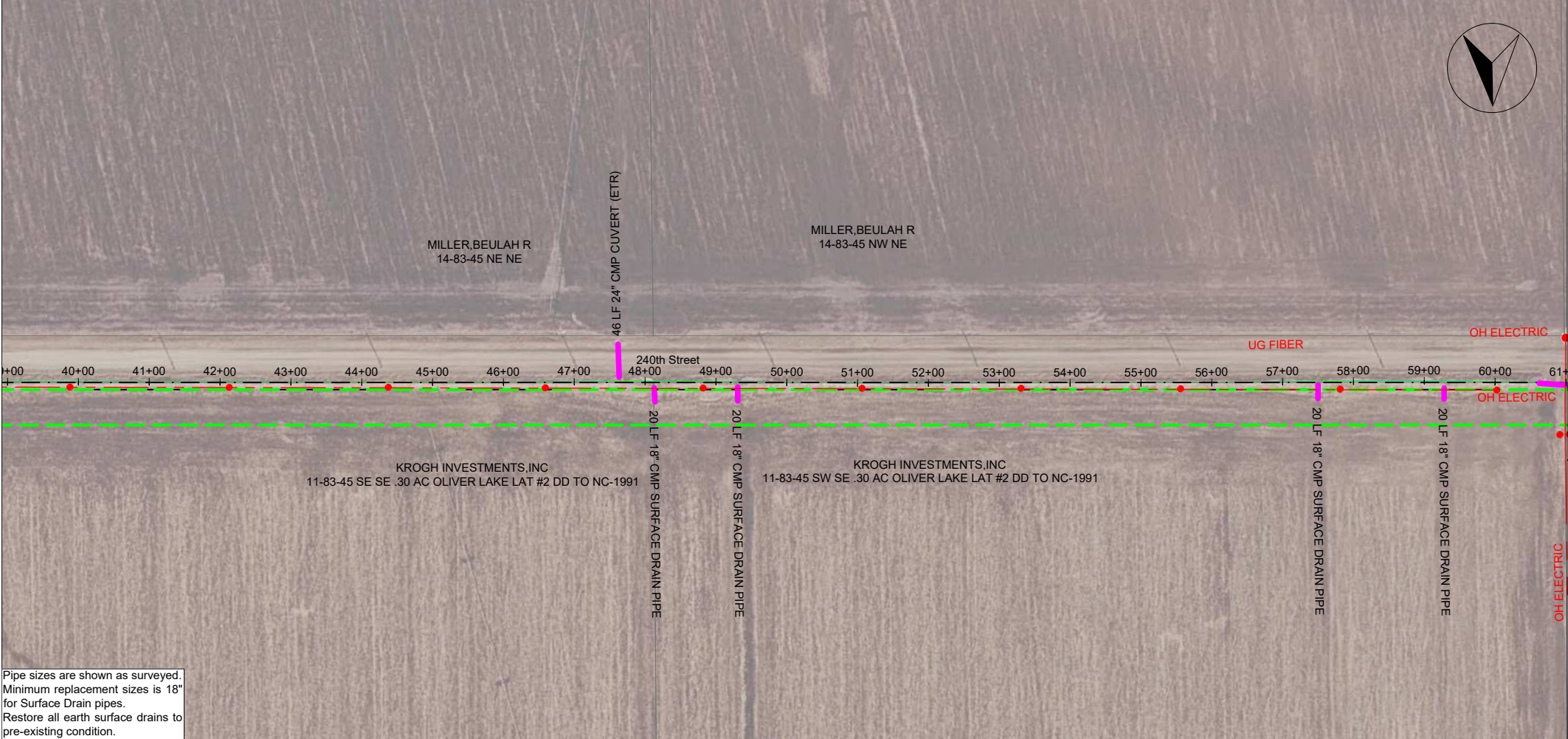
No.	Revision/Issue	Date

Sheet Name
Plan & Profile - Lat. 2
STA 20+00 → 40+00

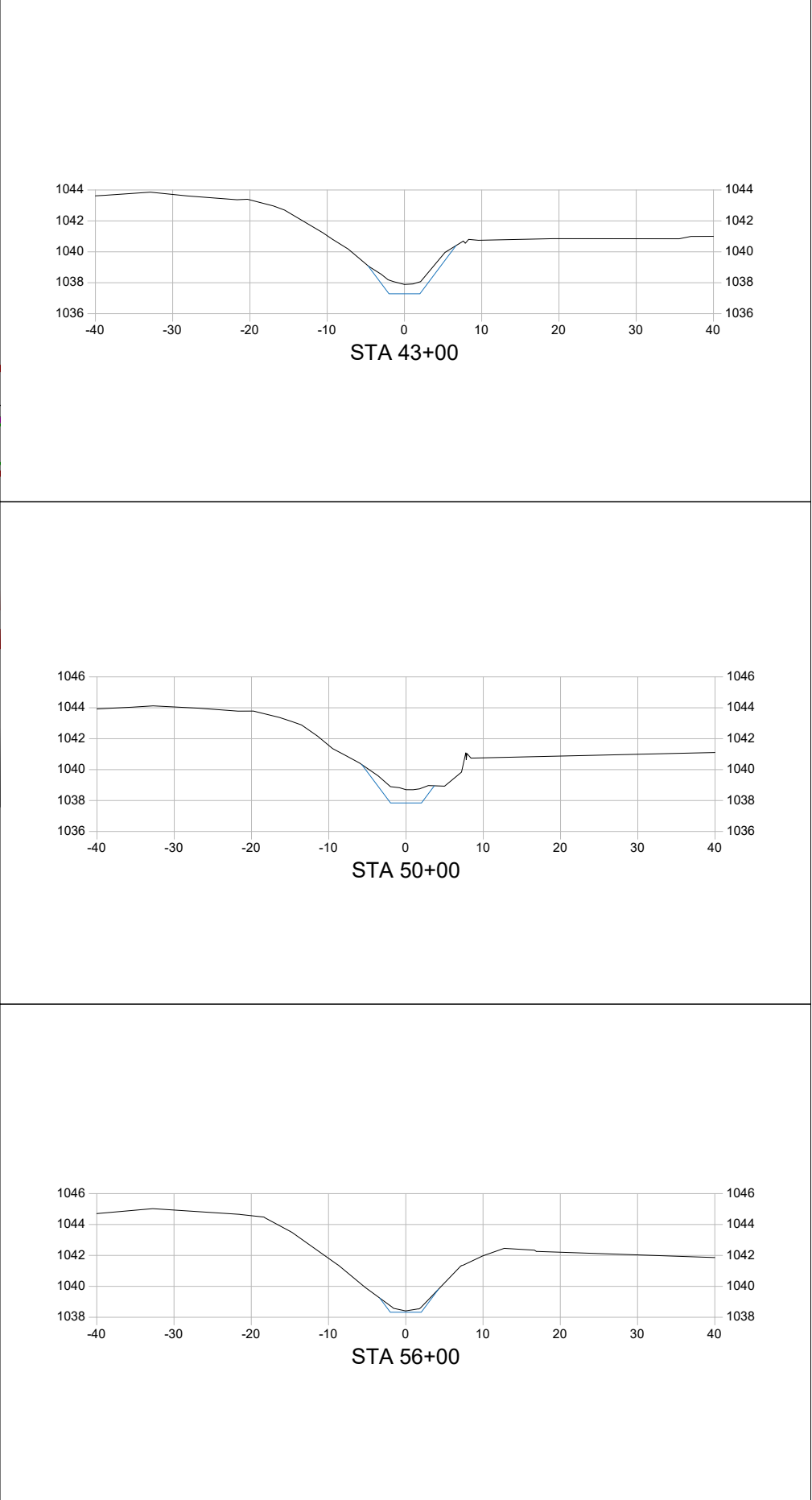
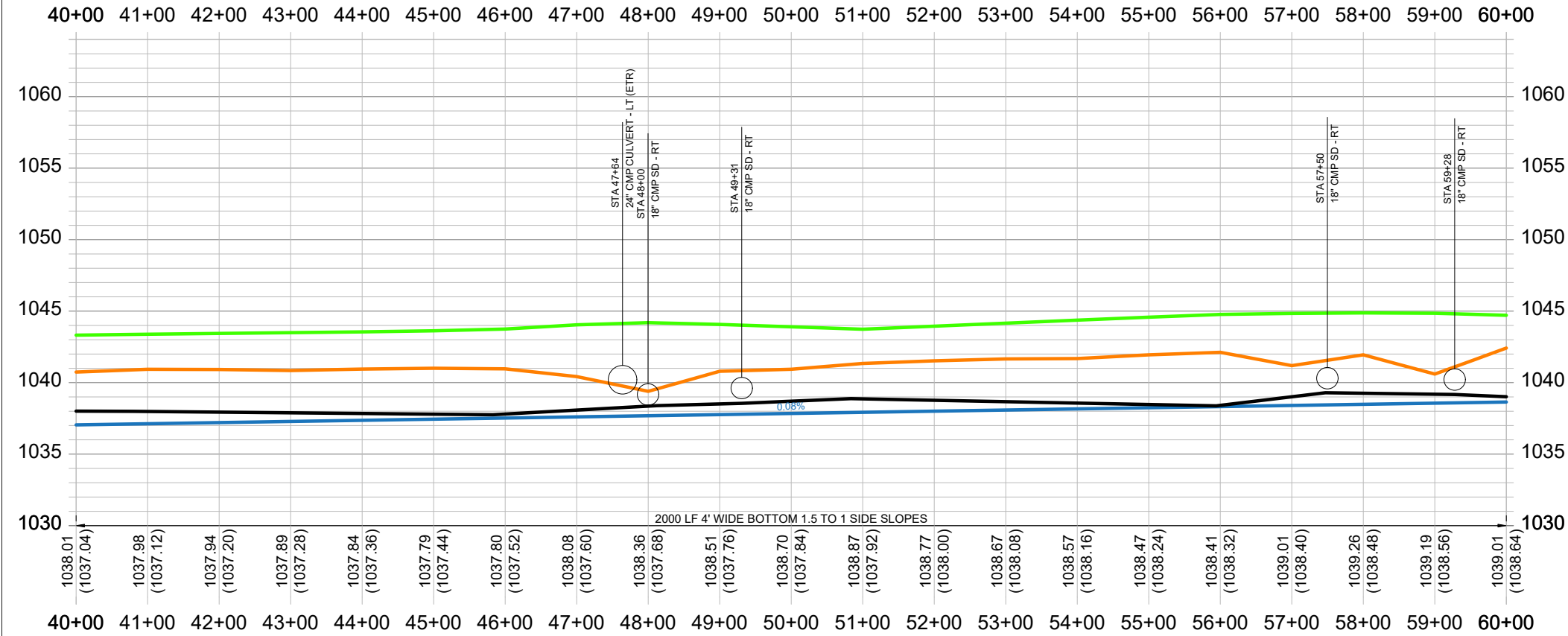
Project Name, Client, and Address
Open Ditch Repairs
Oliver Lake Drainage District Lateral No. 2
Monona County, IA
240th St & Locust Ave

Project
2613-67
Date
2026-06-10
Plan Scale
1"=200'

Sheet
D.11



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18"
for Surface Drain pipes.
Restore all earth surface drains to
pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
JLH
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

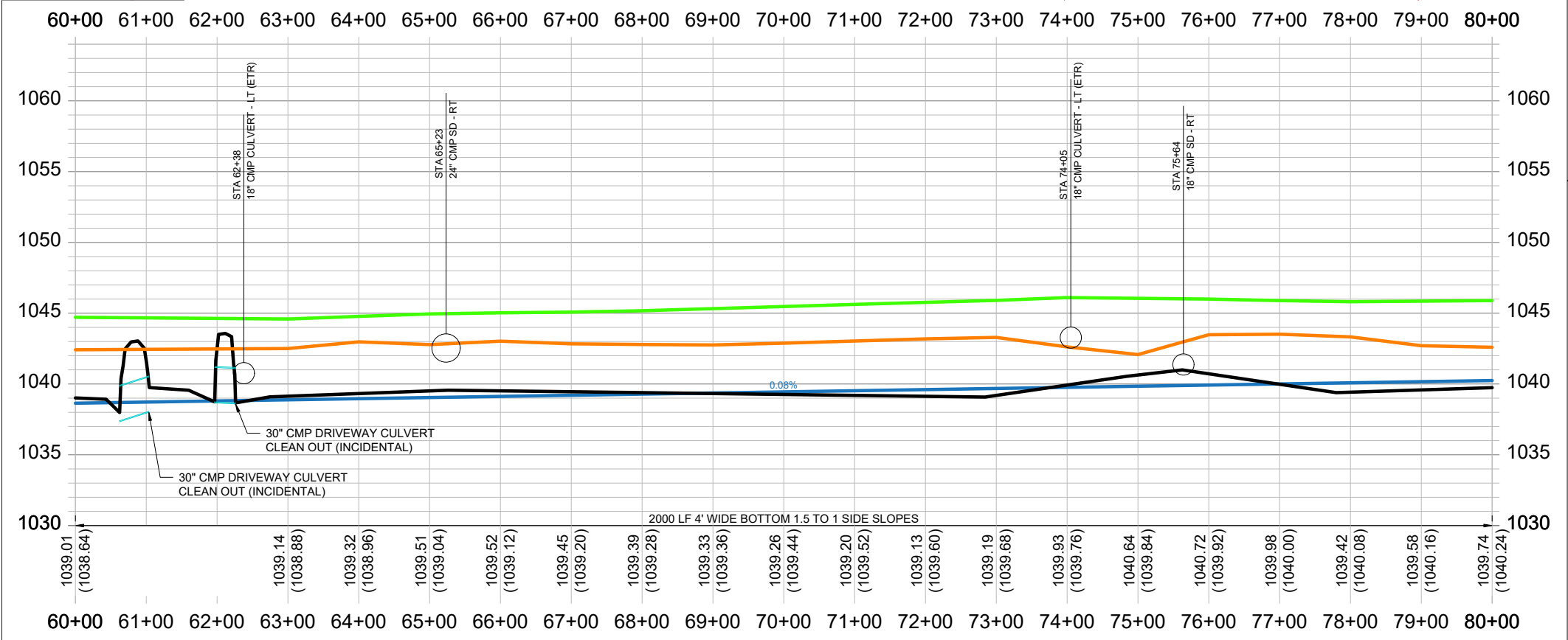
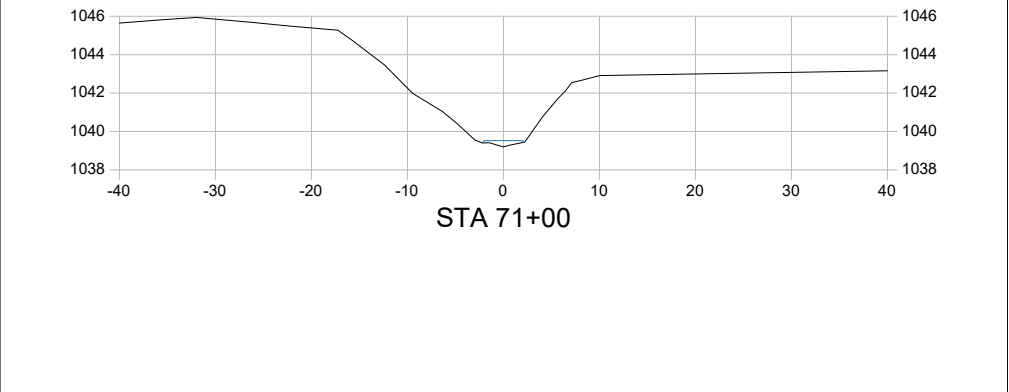
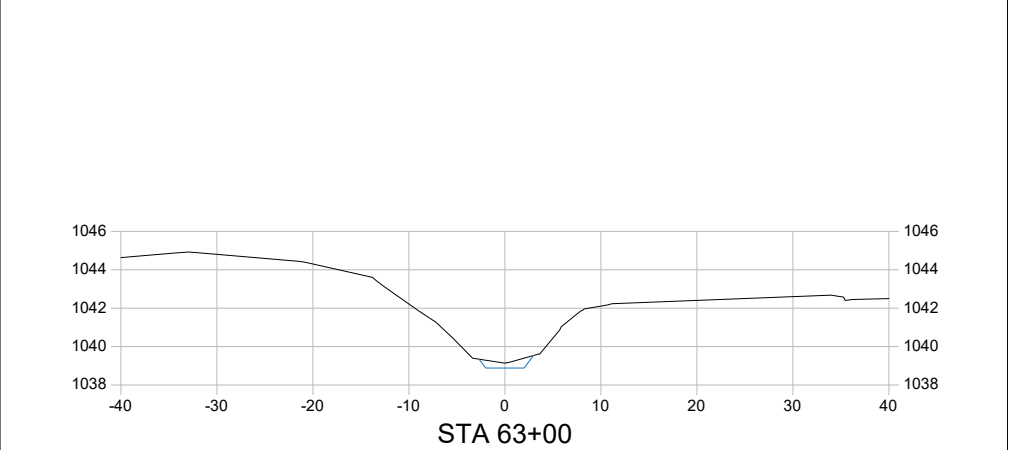
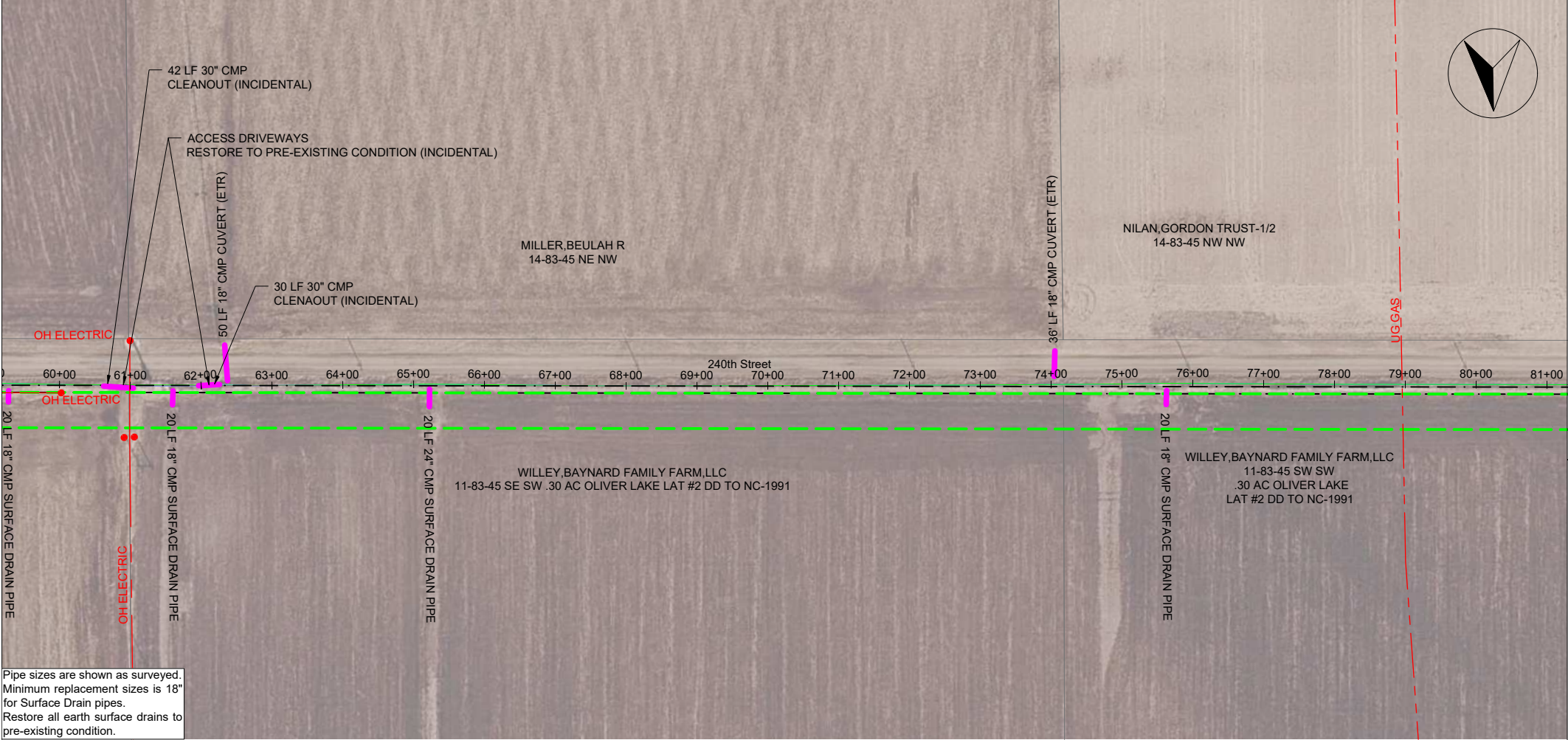
No.	Revision/Issue	Date

Sheet Name
Plan & Profile - Lat. 2
STA 40+00 → 60+00

Project Name, Client, and Address
Open Ditch Repairs
Oliver Lake Drainage District Lateral No. 2
Monona County, IA
240th St & Locust Ave

Project
2613-67
Date
2026-06-10
Plan Scale
1"=200'

Sheet
D.12



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
JLH
Drafter
JLH
Checker
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

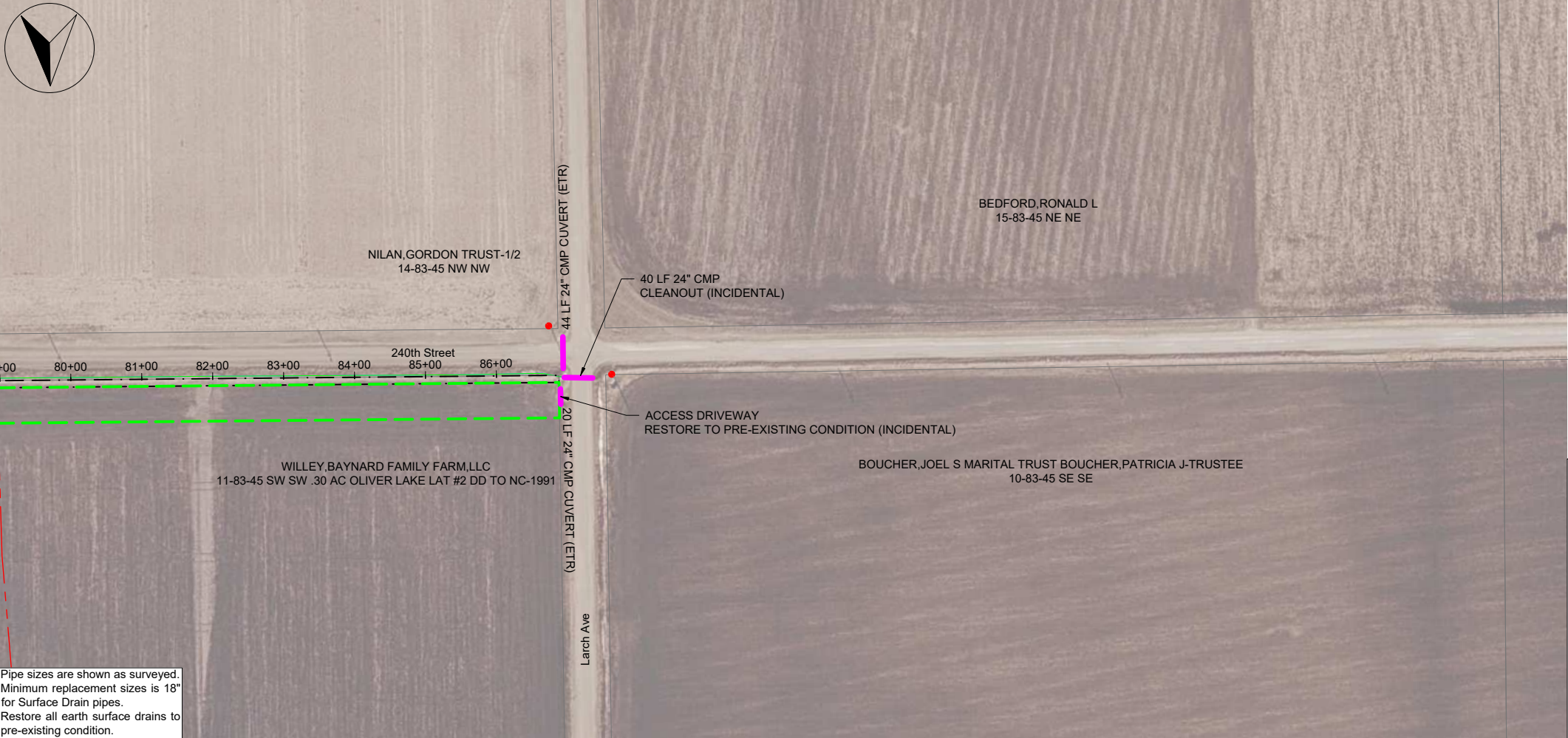
No.	Revision/Issue	Date

Sheet Name
Plan & Profile - Lat. 2
STA 60+00 → 80+00

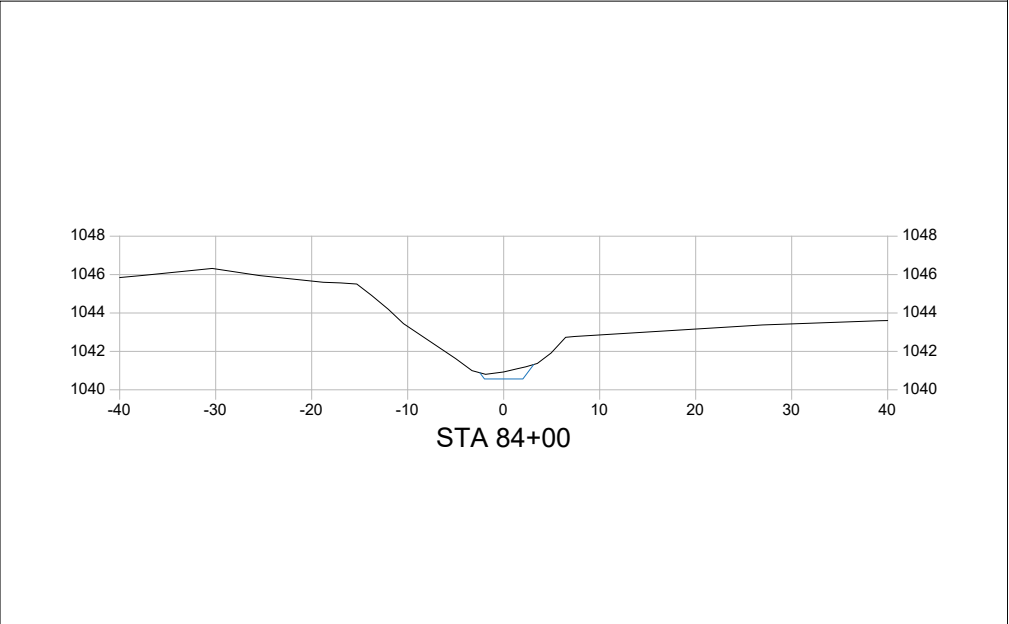
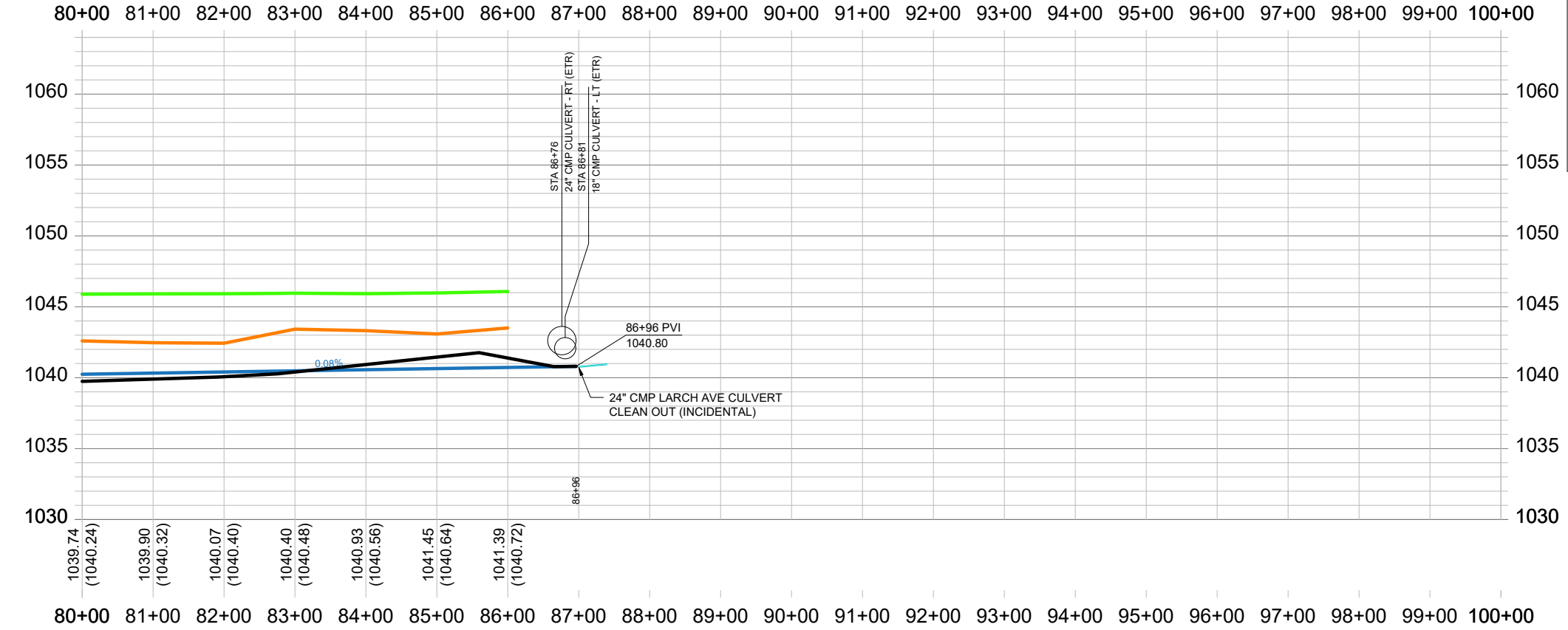
Project Name, Client, and Address
Open Ditch Repairs
Oliver Lake Drainage District Lateral No. 2
Monona County, IA
240th St & Locust Ave

Project
2613-67
Date
2026-06-10
Plan Scale
1"=200'

D.13



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18\"/>



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
JLH
JLH
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

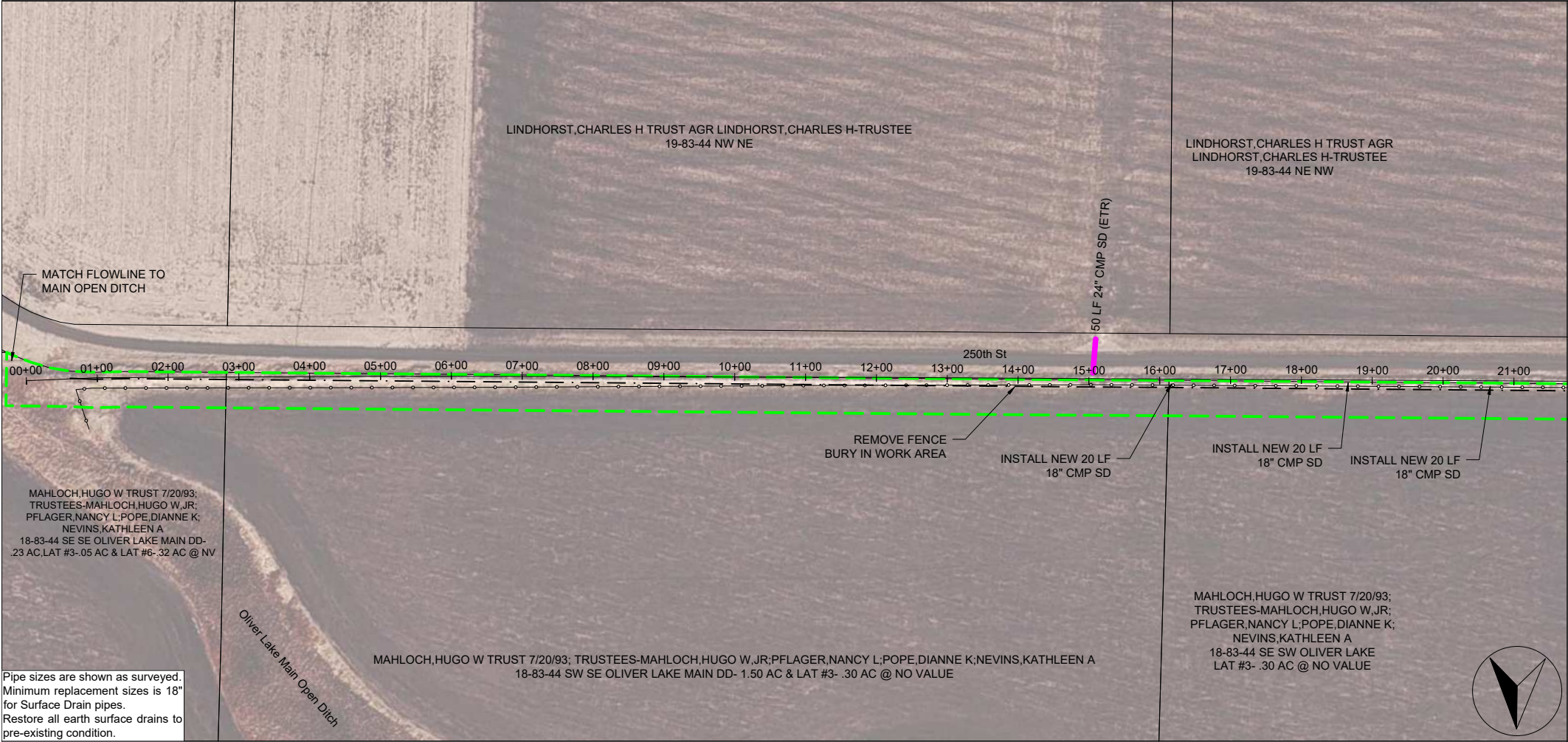
PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

No.	Revision/Issue	Date

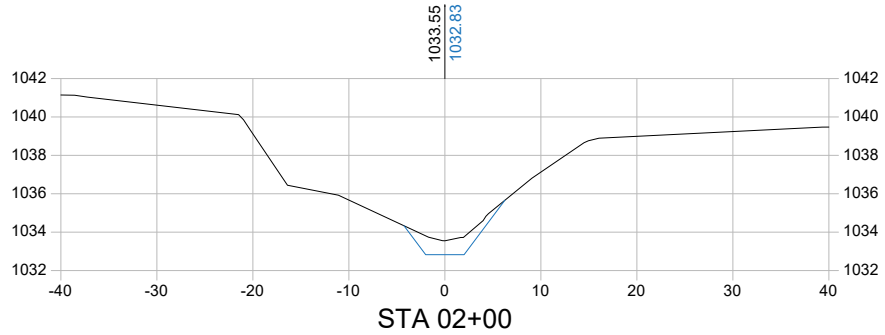
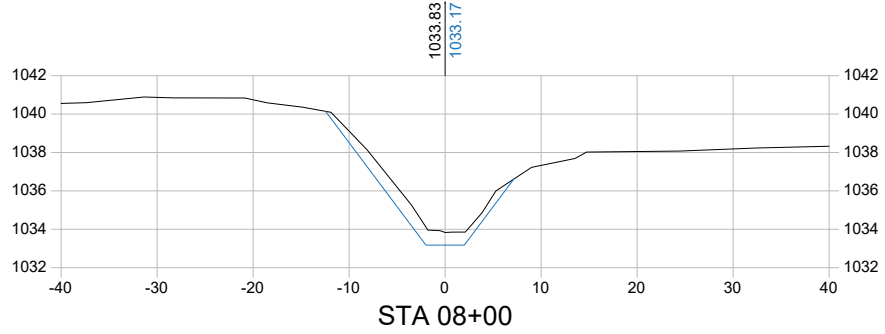
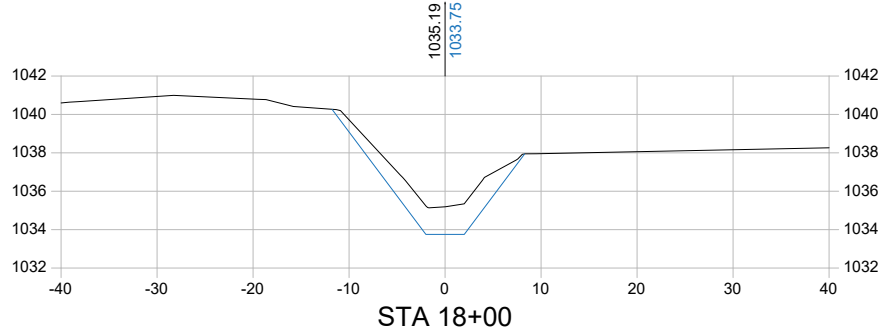
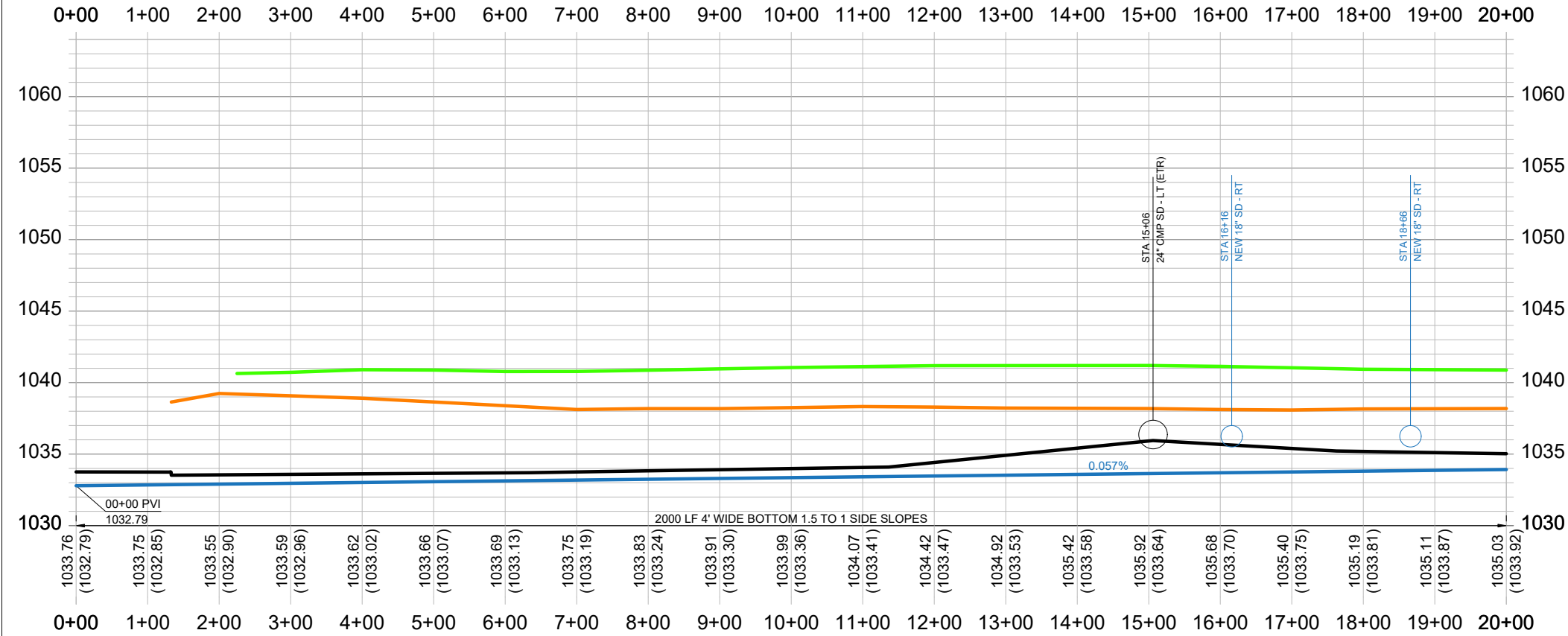
Sheet Name
**Plan & Profile - Lat. 2
STA 80+00 → 86+96**

Project Name, Client, and Address
**Open Ditch Repairs
Oliver Lake Drainage District Lateral No. 2
Monona County, IA
240th St & Locust Ave**

Project 2613-67	D.14
Date 2026-06-10	
Plan Scale 1"=200'	



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18" for Surface Drain pipes.
Restore all earth surface drains to pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
JLH

PLAN LEGEND

Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

PROFILE LEGEND

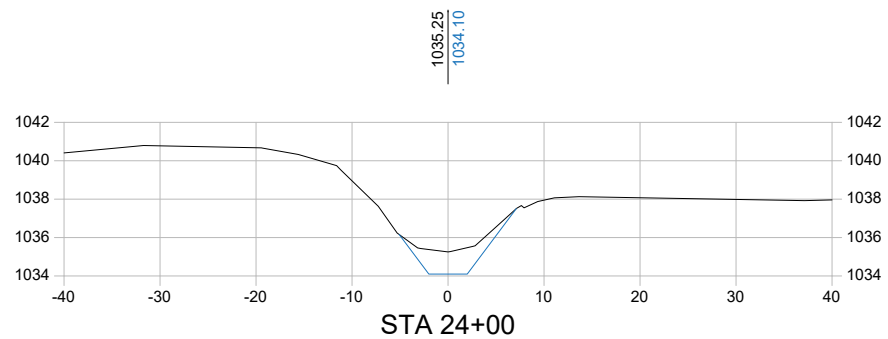
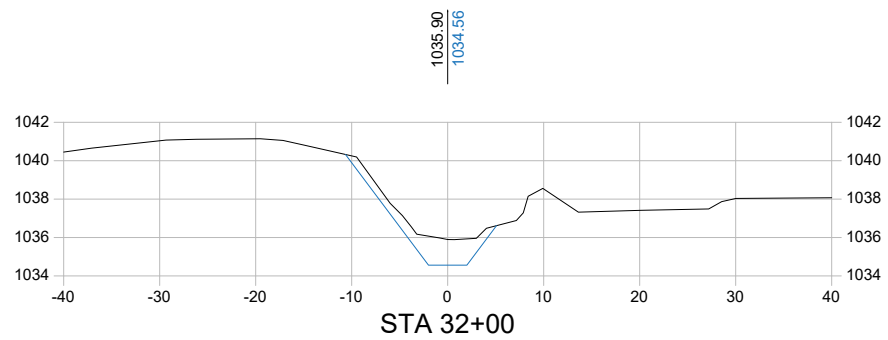
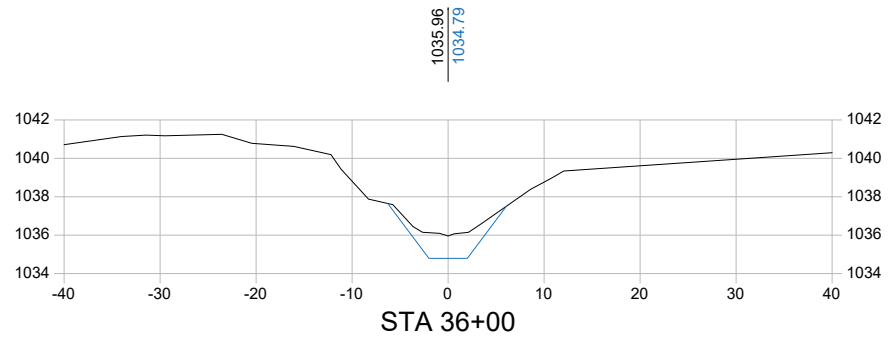
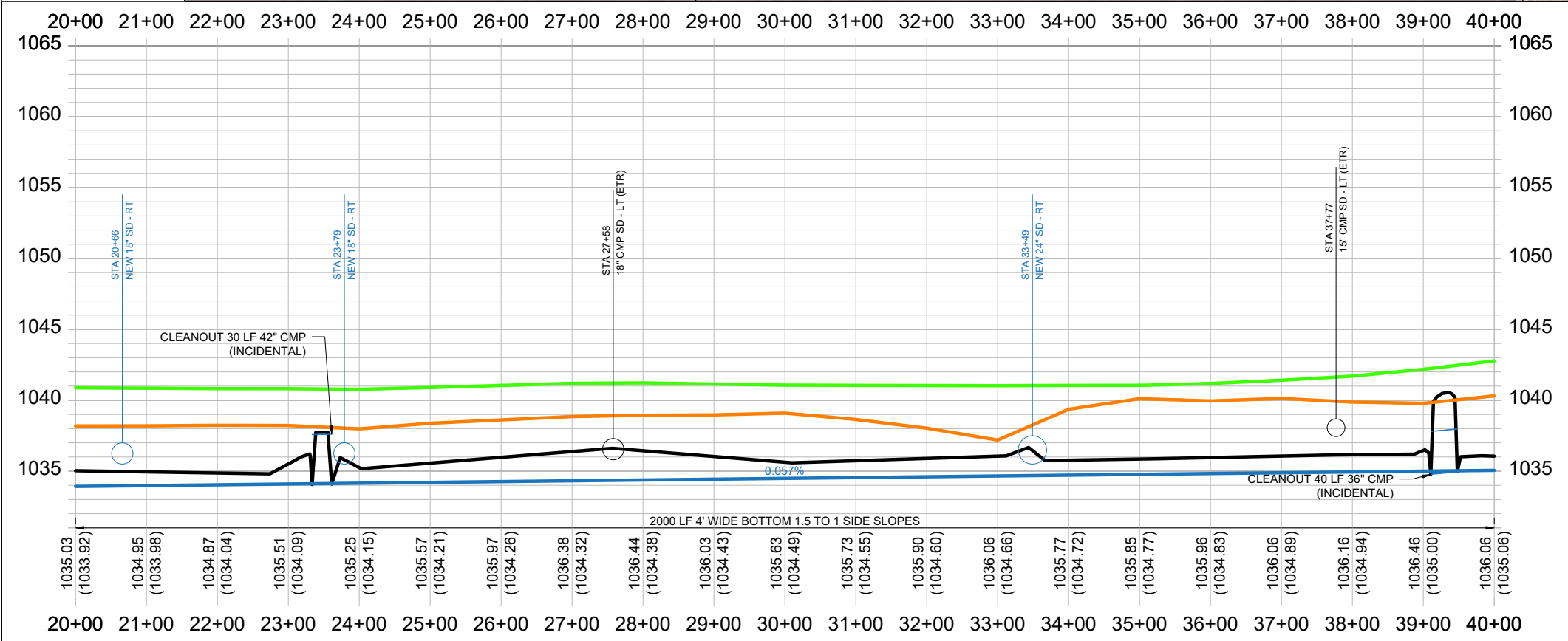
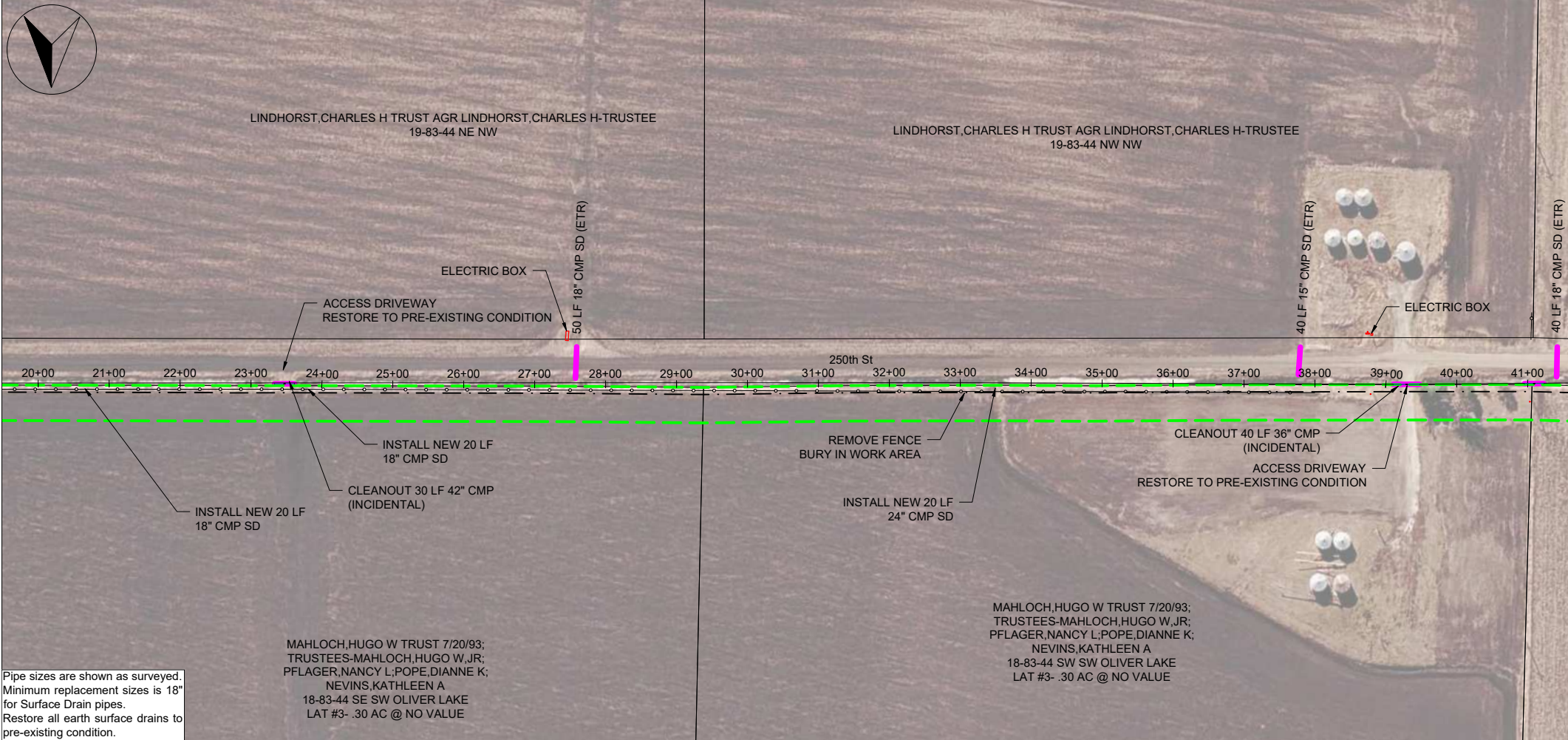
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

No.	Revision/Issue	Date

Sheet Name
**Plan & Profile - Lat. 3
STA 0+00 → 20+00**

Project Name, Client, and Address
**Open Ditch Repair
Oliver Lake Lat. 3
Monona County, IA
250th St & Locust Ave, Onawa, IA 51040**

Project
2614-67
Date
2026-06-26
Plan Scale
1' = 200'
Sheet
D.15





AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer: TJB
Checker: JLH

PLAN LEGEND

- Parcel Lines
- Work Area on Private Land (50' Wide)
- Ditch ROW on Private Land (10')
- Surface Drains
- Tile Outlets
- Utilities (in red)
- Power Poles

PROFILE LEGEND

- Design Ditch Grade
- Surveyed Ditch Bottom
- Left Top of Bank
- Right Top of Bank

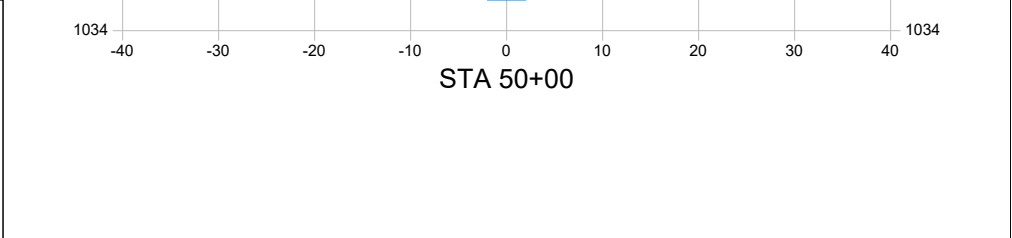
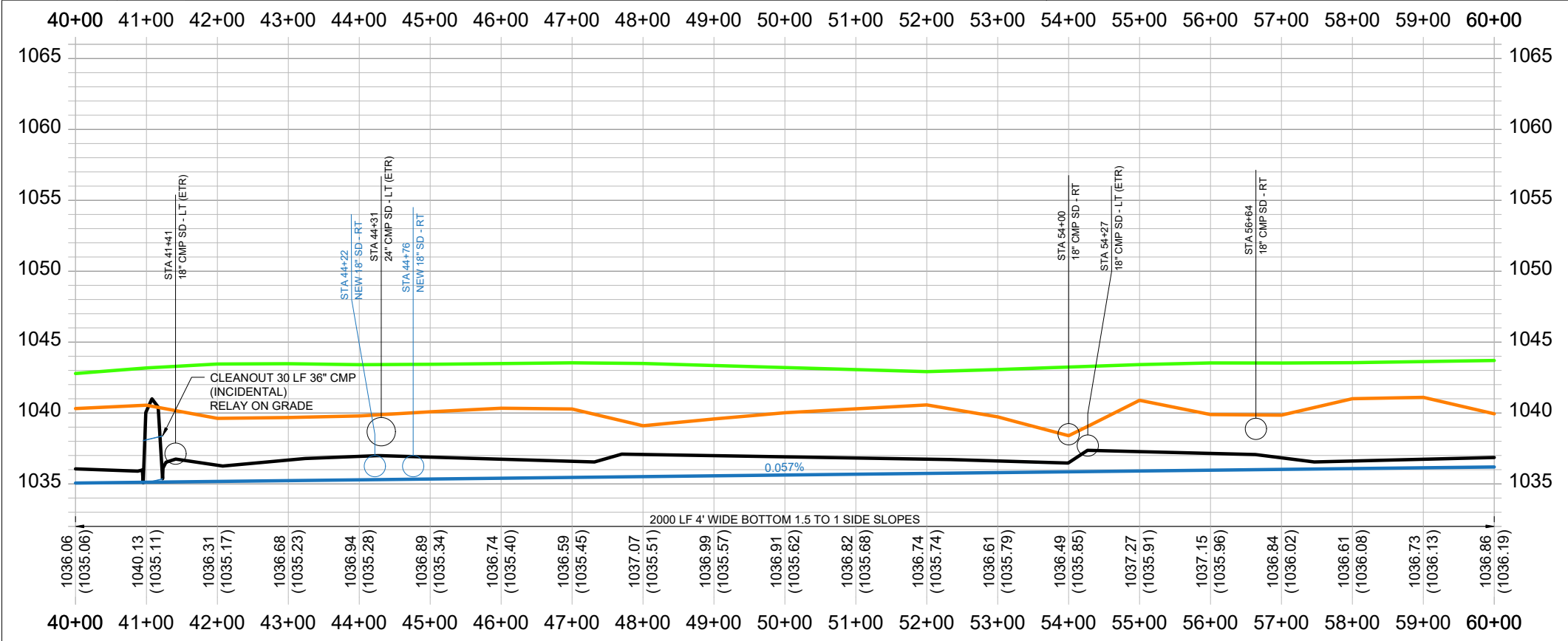
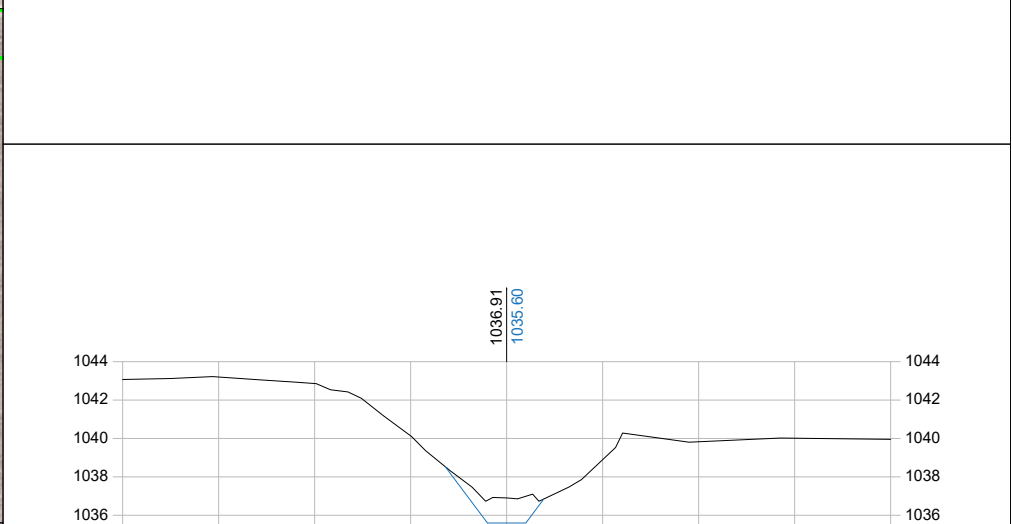
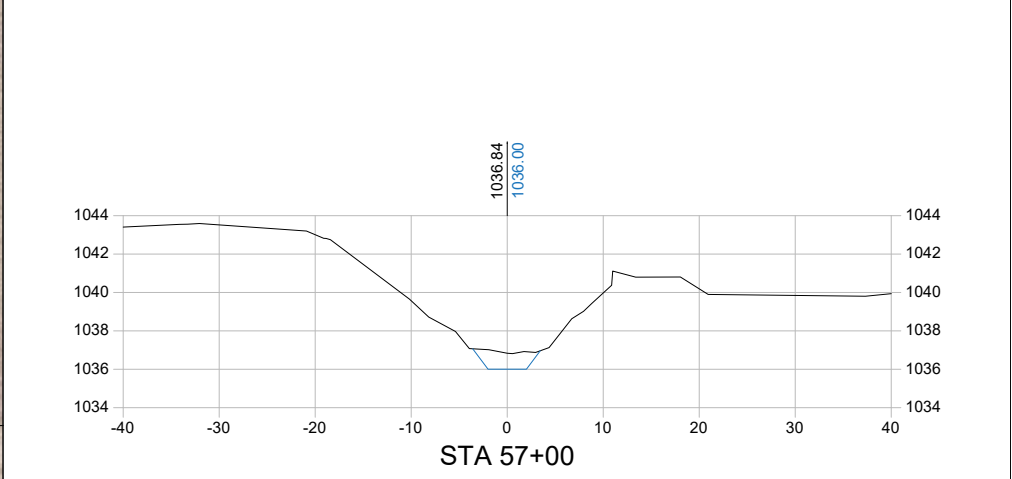
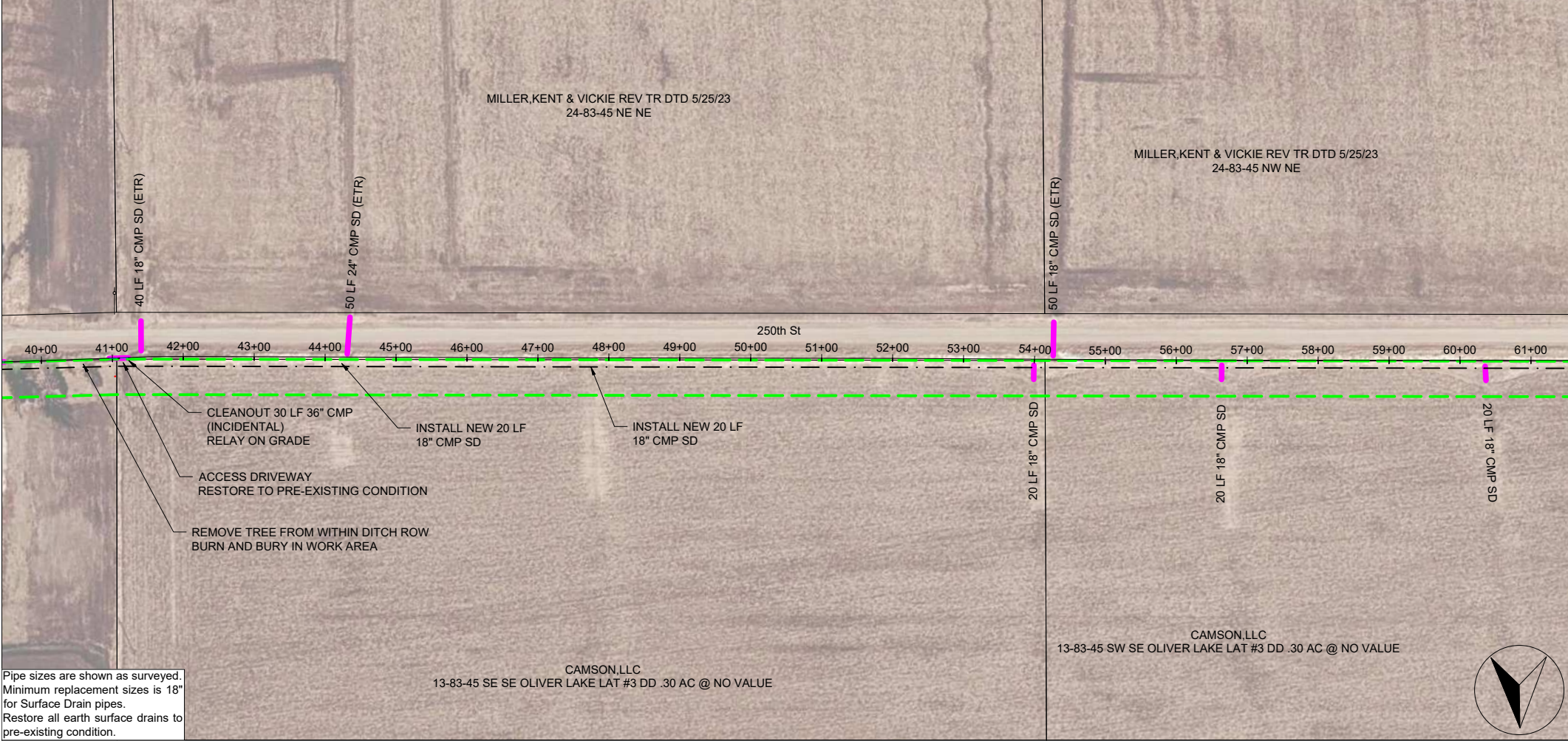
No.	Revision/Issue	Date

Sheet Name: Plan & Profile - Lat. 3
STA 20+00 → 40+00

Project Name, Client, and Address: Open Ditch Repair
Oliver Lake Lat. 3
Monona County, IA
250th St & Locust Ave, Onawa, IA 51040

Project: 2614-67
Date: 2026-06-26
Plan Scale: 1' = 200'

Sheet: D.16



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
TJB
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

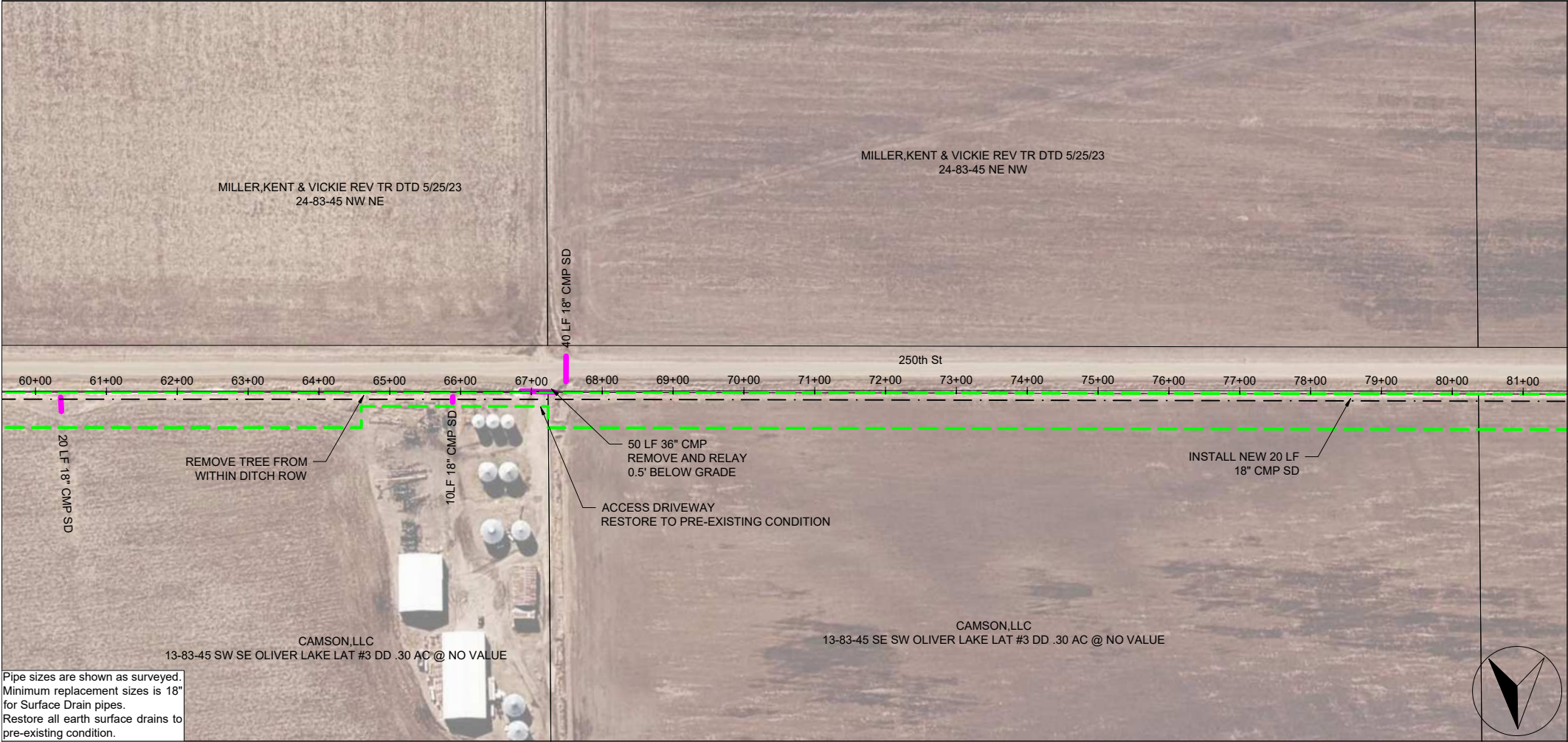
PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

No.	Revision/Issue	Date

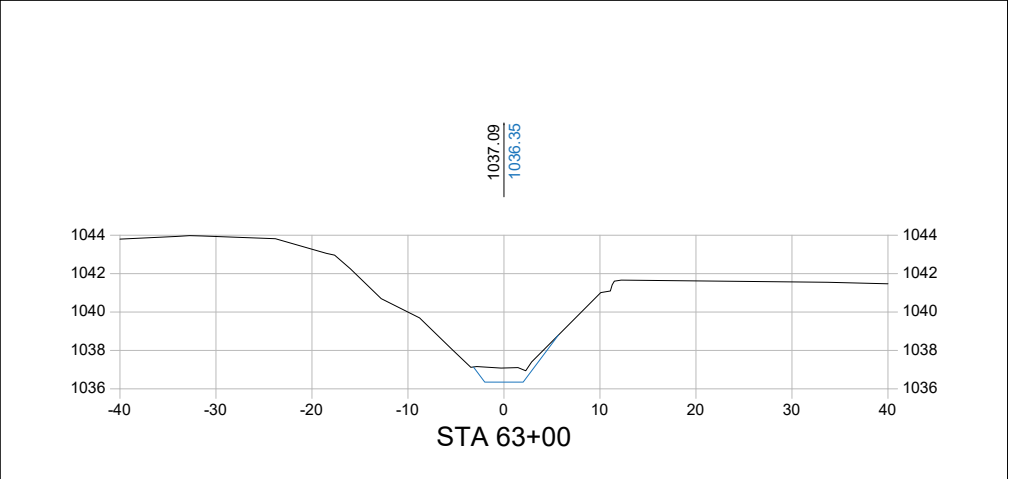
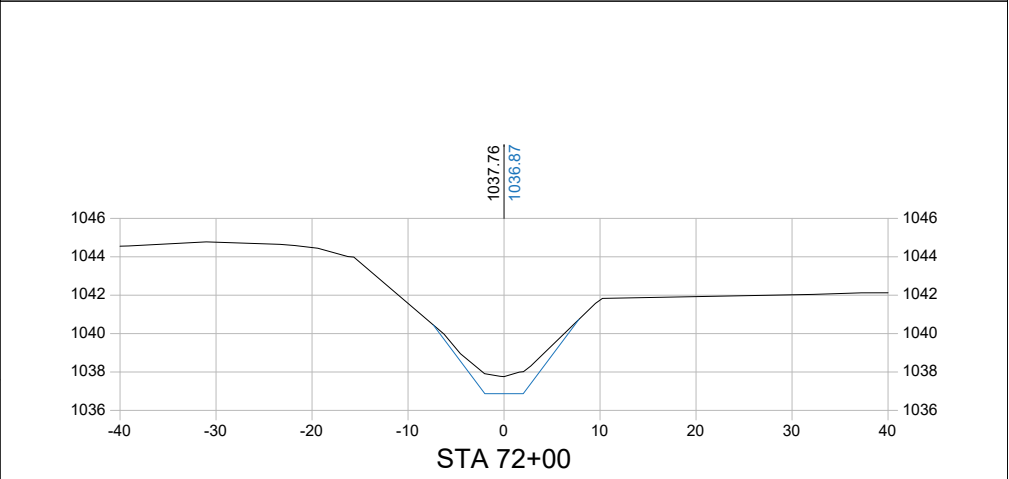
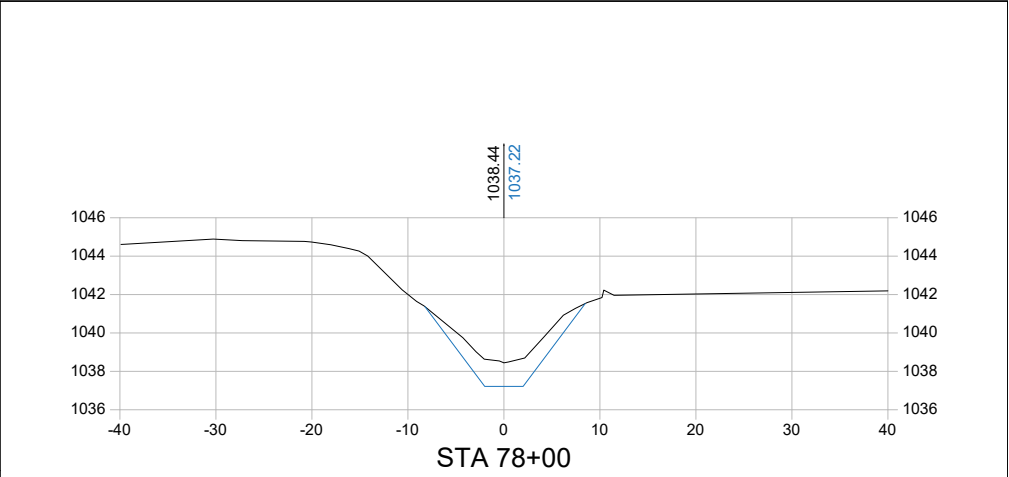
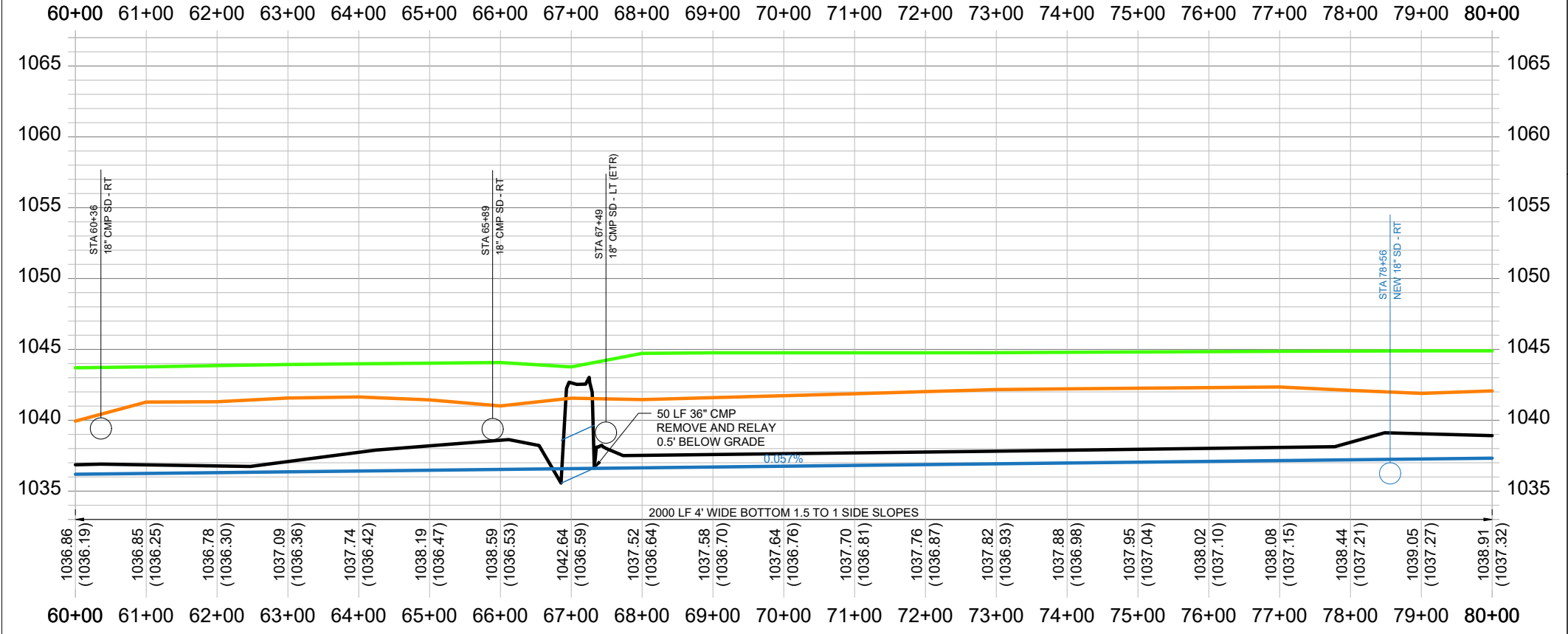
Sheet Name
Plan & Profile - Lat. 3
STA 40+00 → 60+00

Project Name, Client, and Address
Open Ditch Repair
Oliver Lake Lat. 3
Monona County, IA
250th St & Locust Ave, Onawa, IA 51040

Project
2614-67
Date
2026-06-26
Plan Scale
1' = 200'
Sheet
D.17



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18"
for Surface Drain pipes.
Restore all earth surface drains to
pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
TJB
Checker
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

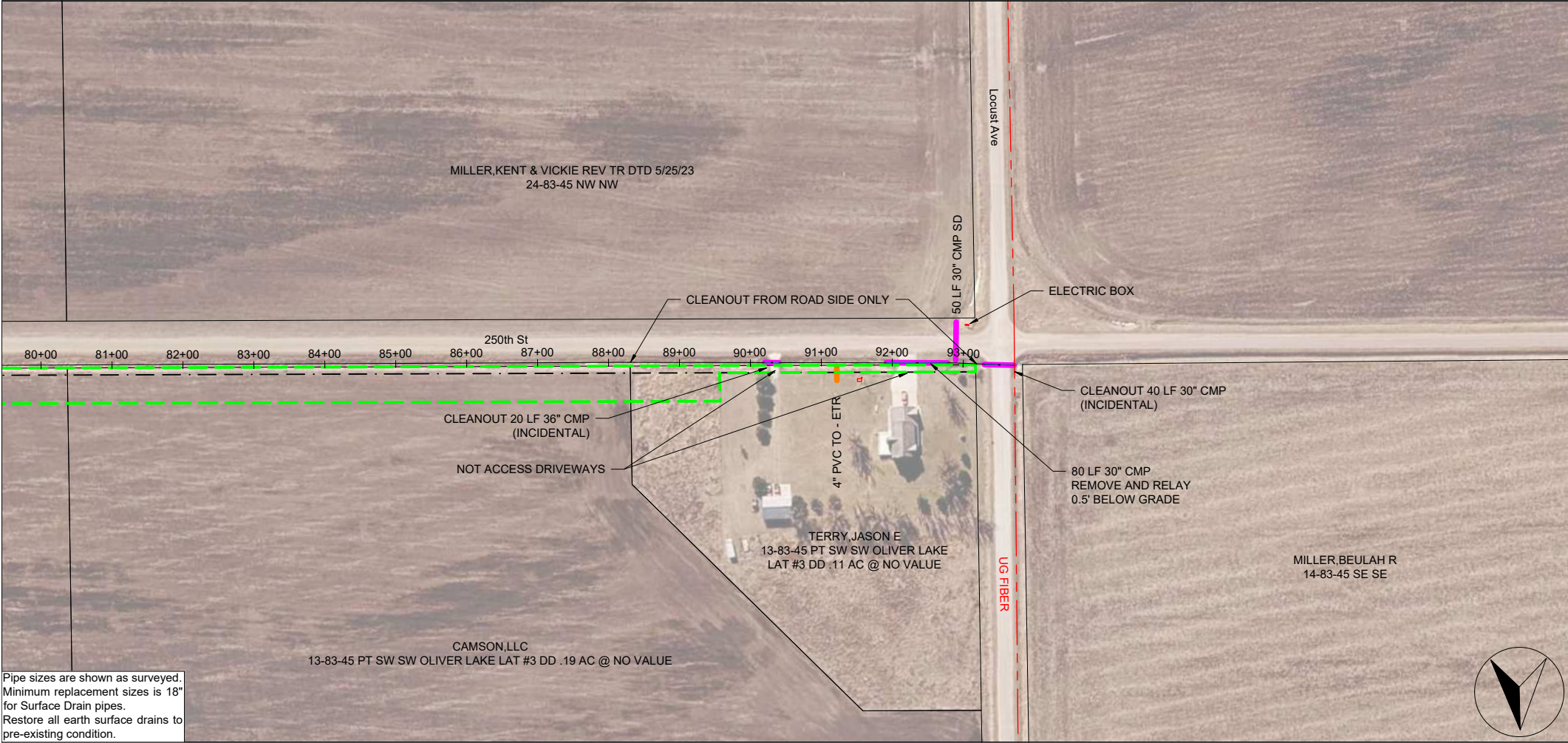
PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

No.	Revision/Issue	Date

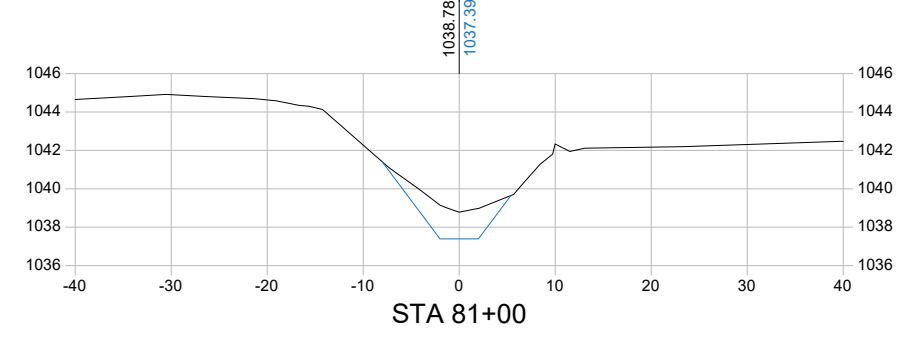
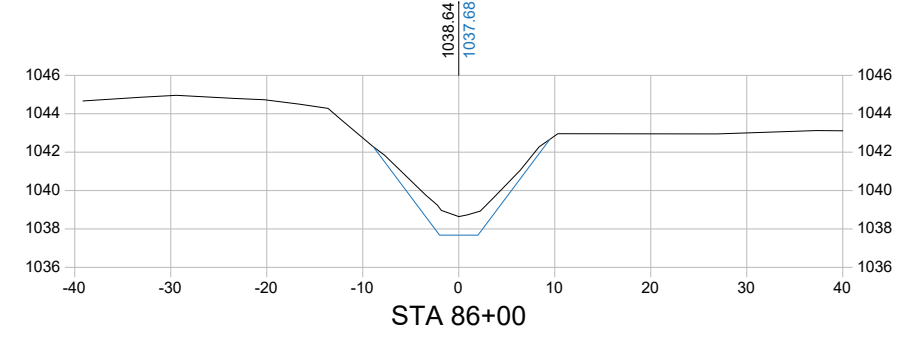
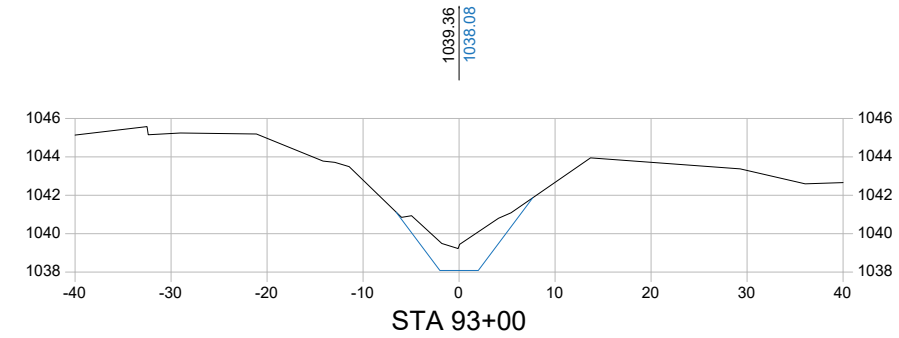
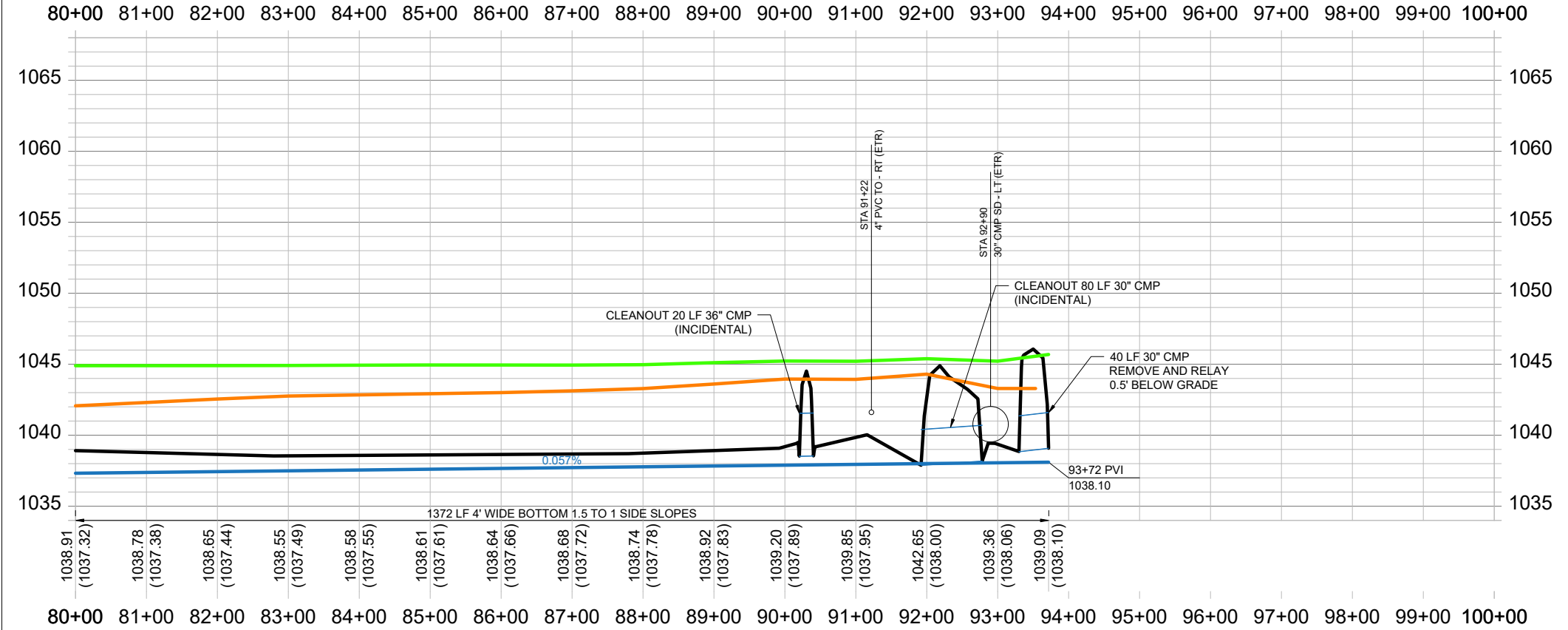
Sheet Name
Plan & Profile - Lat. 3
STA 60+00 → 80+00

Project Name, Client, and Address
Open Ditch Repair
Oliver Lake Lat. 3
Monona County, IA
250th St & Locust Ave, Onawa, IA 51040

Project 2614-67	D.18
Date 2026-06-26	
Plan Scale 1' = 200'	



Pipe sizes are shown as surveyed.
Minimum replacement sizes is 18"
for Surface Drain pipes.
Restore all earth surface drains to
pre-existing condition.



Company Information
AgriVia PLLC
PO Box 44
1124 Willis Ave
Perry, IA 50220

Designer
Drafter
Checker
TJB
JLH

PLAN LEGEND
Parcel Lines
Work Area on Private Land (50' Wide)
Ditch ROW on Private Land (10')
Surface Drains
Tile Outlets
Utilities (in red)
Power Poles

PROFILE LEGEND
Design Ditch Grade
Surveyed Ditch Bottom
Left Top of Bank
Right Top of Bank

No.	Revision/Issue	Date

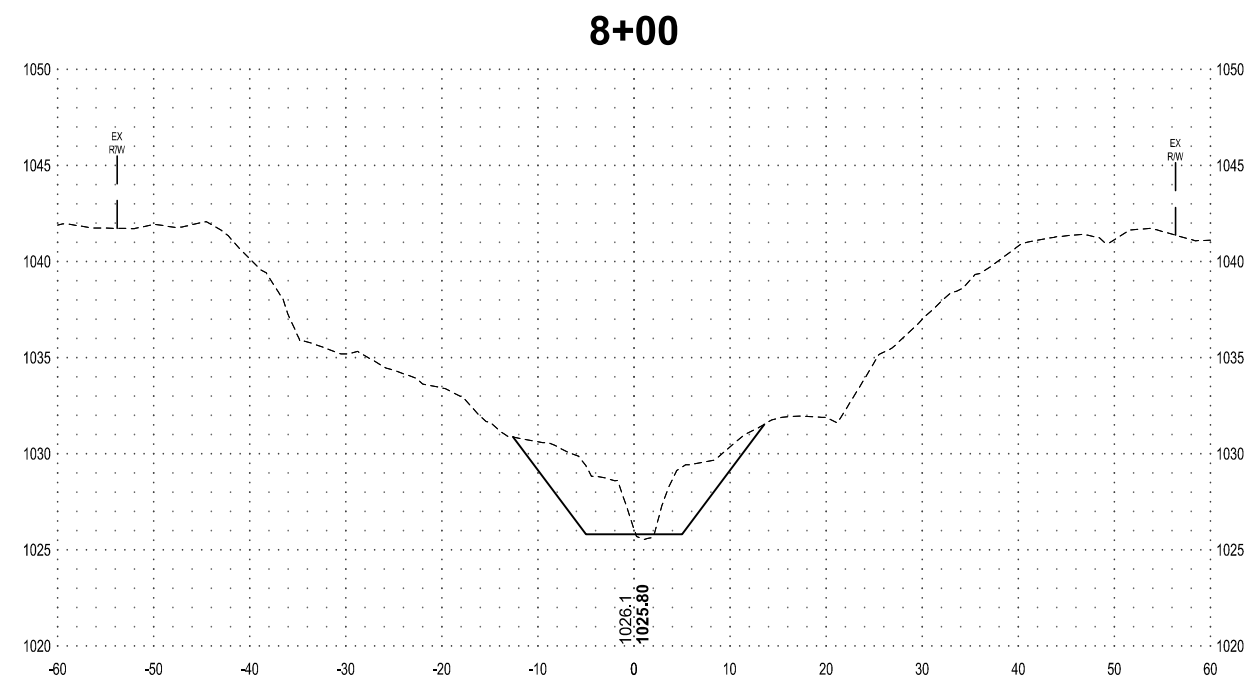
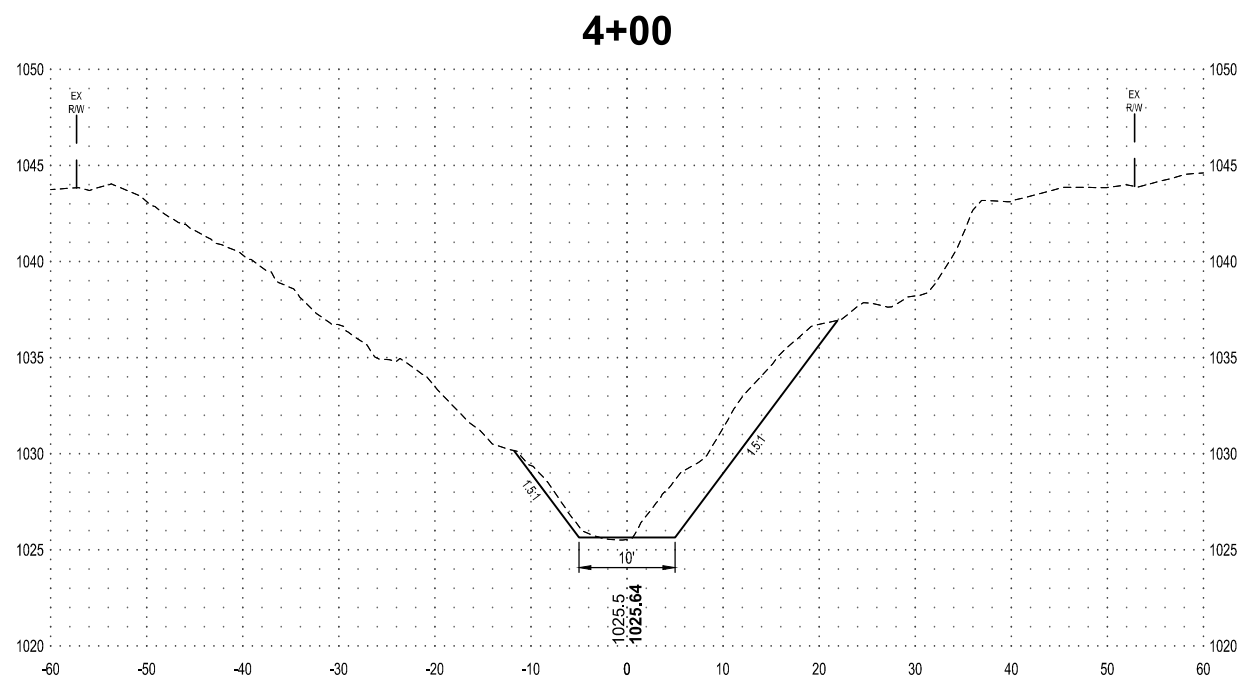
Sheet Name
**Plan & Profile - Lat. 3
STA 80+00 → 93+72**

Project Name, Client, and Address
**Open Ditch Repair
Oliver Lake Lat. 3
Monona County, IA
250th St & Locust Ave, Onawa, IA 51040**

Project 2614-67	D.19
Date 2026-06-26	
Plan Scale 1' = 200'	



1000.0	XXX.X - EXISTING GROUND €
1000.00	XXX.XX - PROPOSED GROUND €



SHEET

X.01

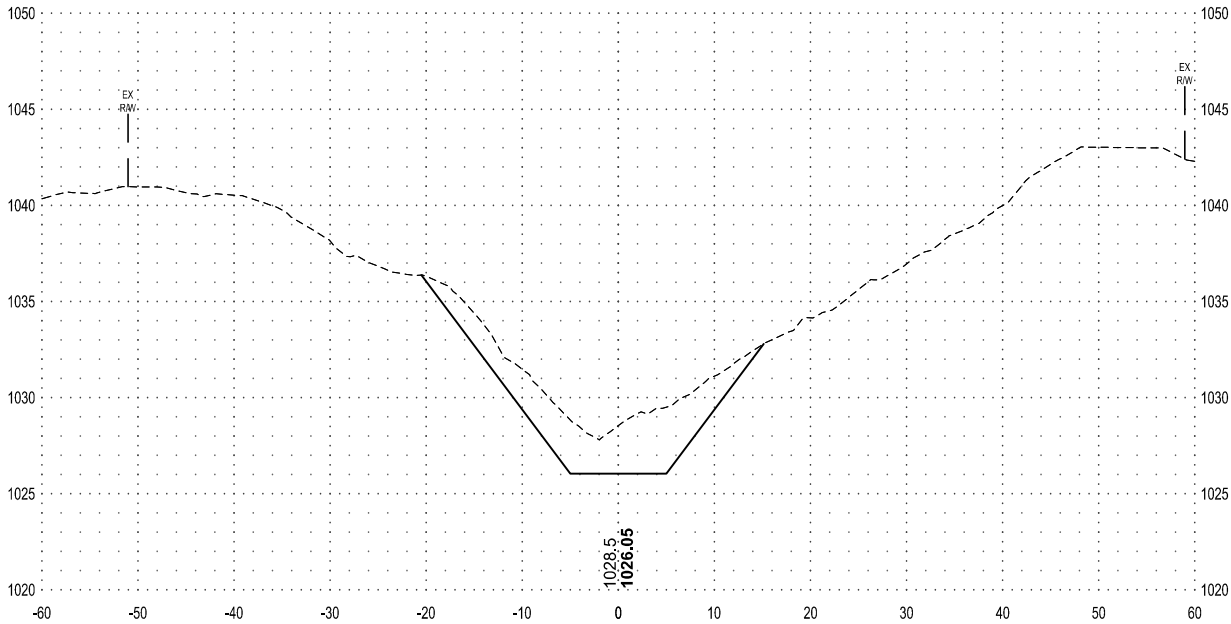


SECTION VIEW LEGEND

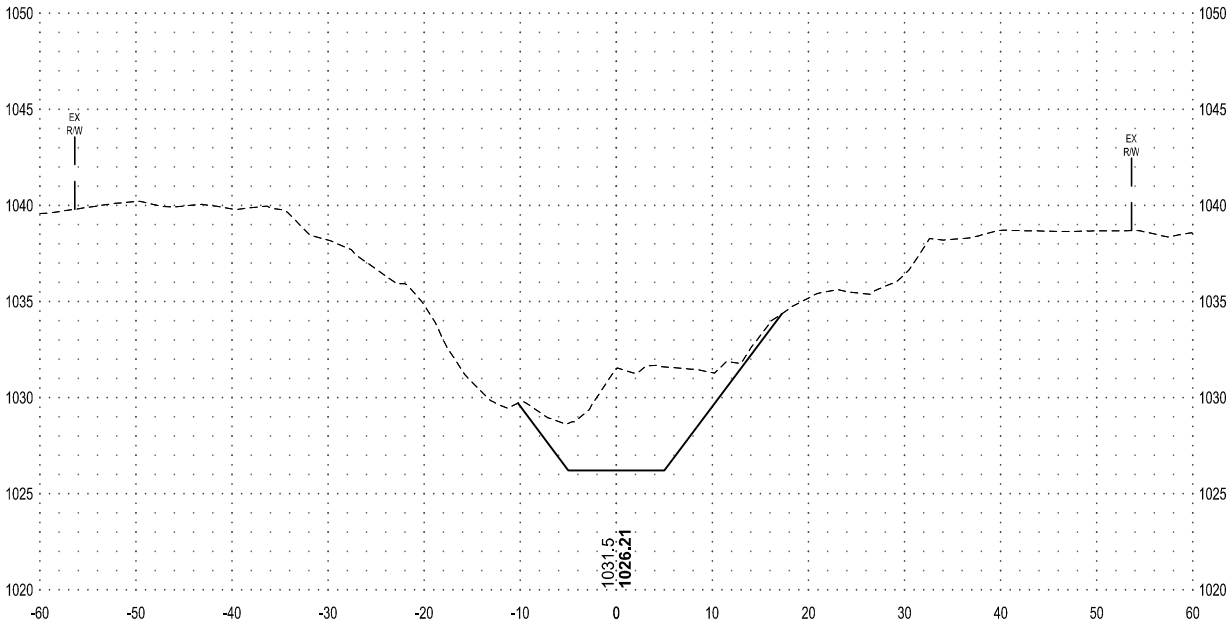
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
————	PROPOSED GROUND
1000.0 1000.00	XXXX - EXISTING GROUND E XXXXX - PROPOSED GROUND E

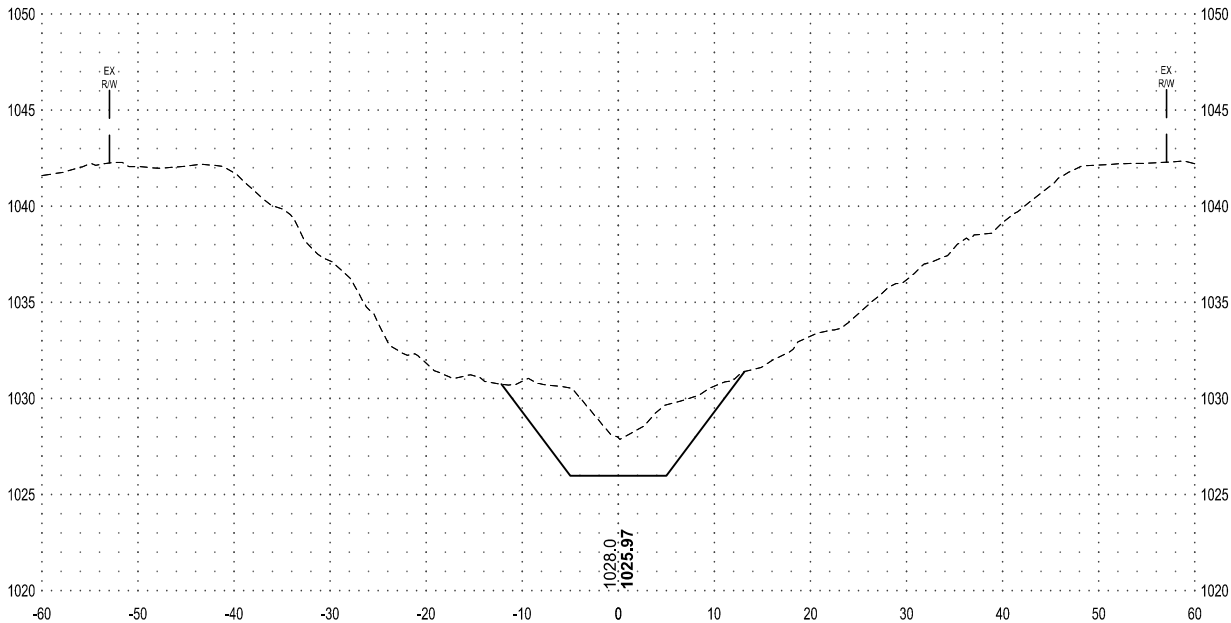
14+00



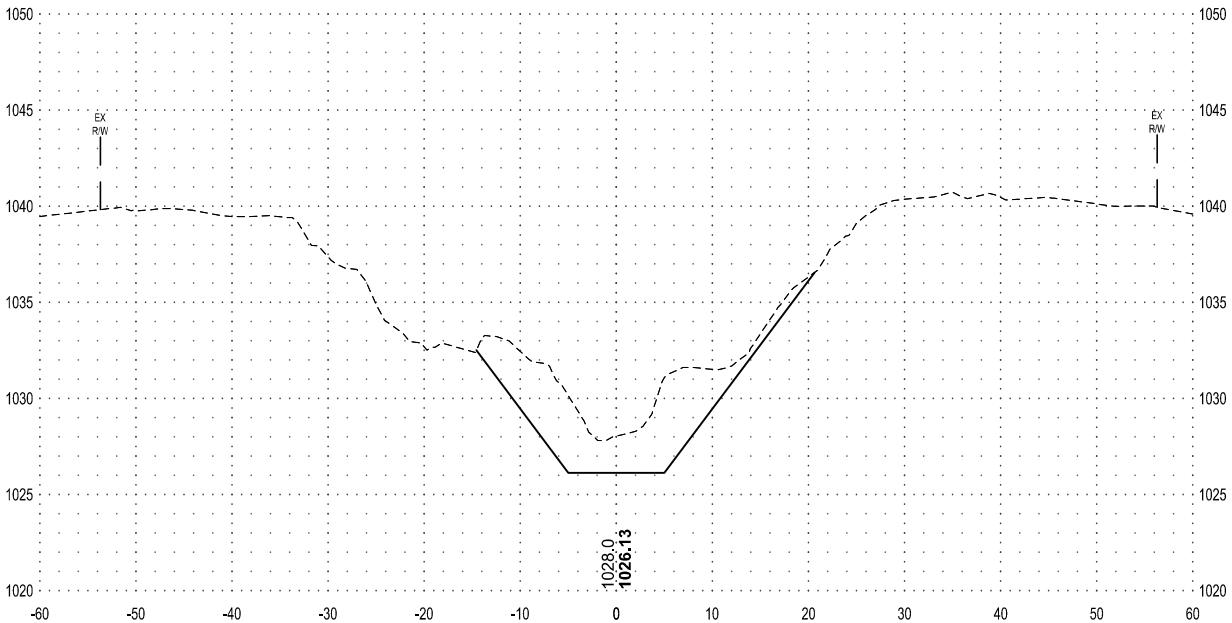
18+00



12+00



16+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	—/—/—
CLIENT PROJECT NO.	-

TITLE

SECTIONS

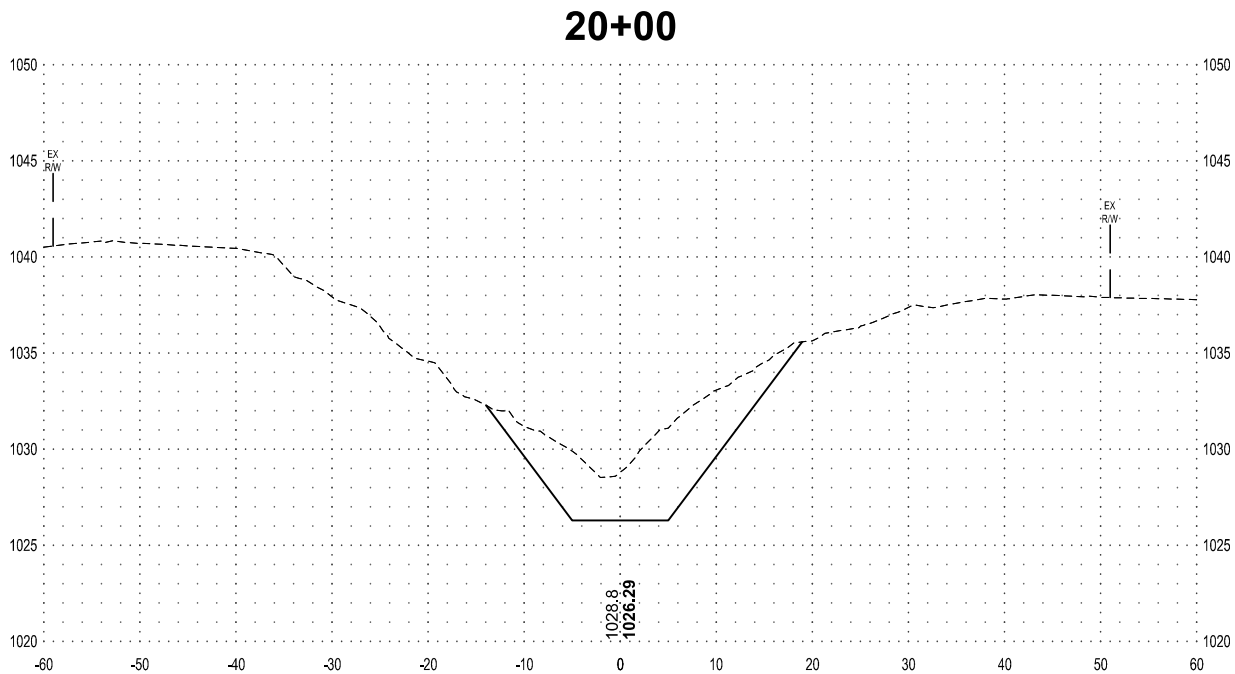
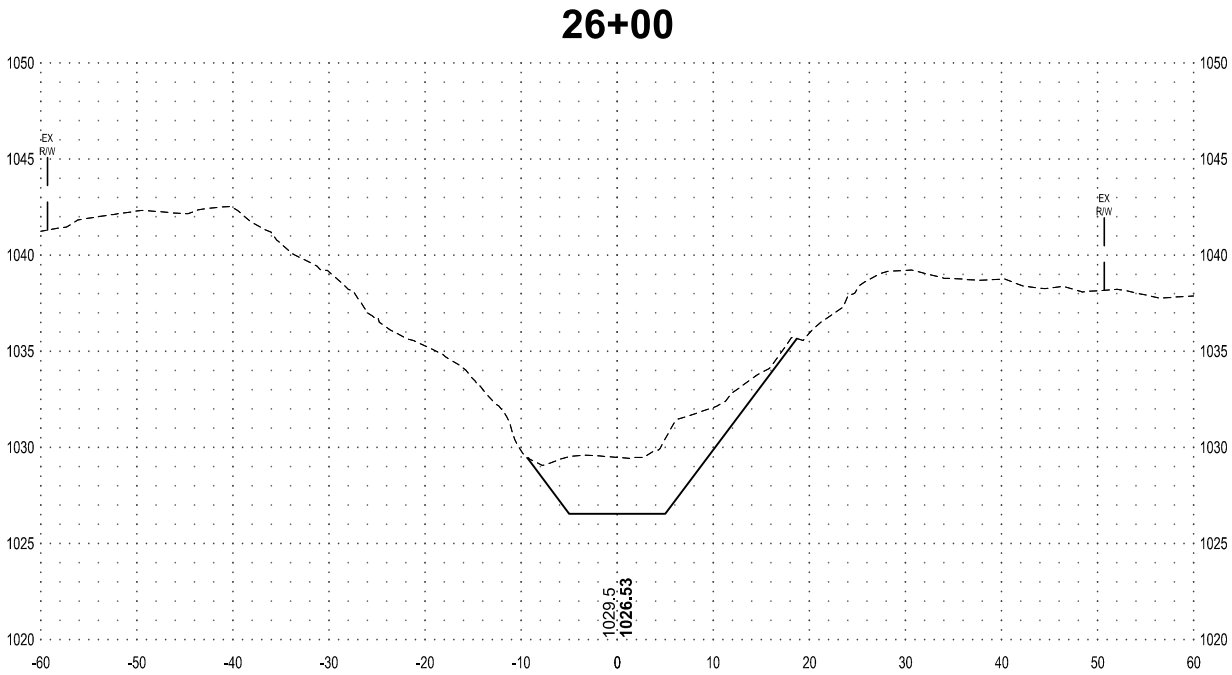
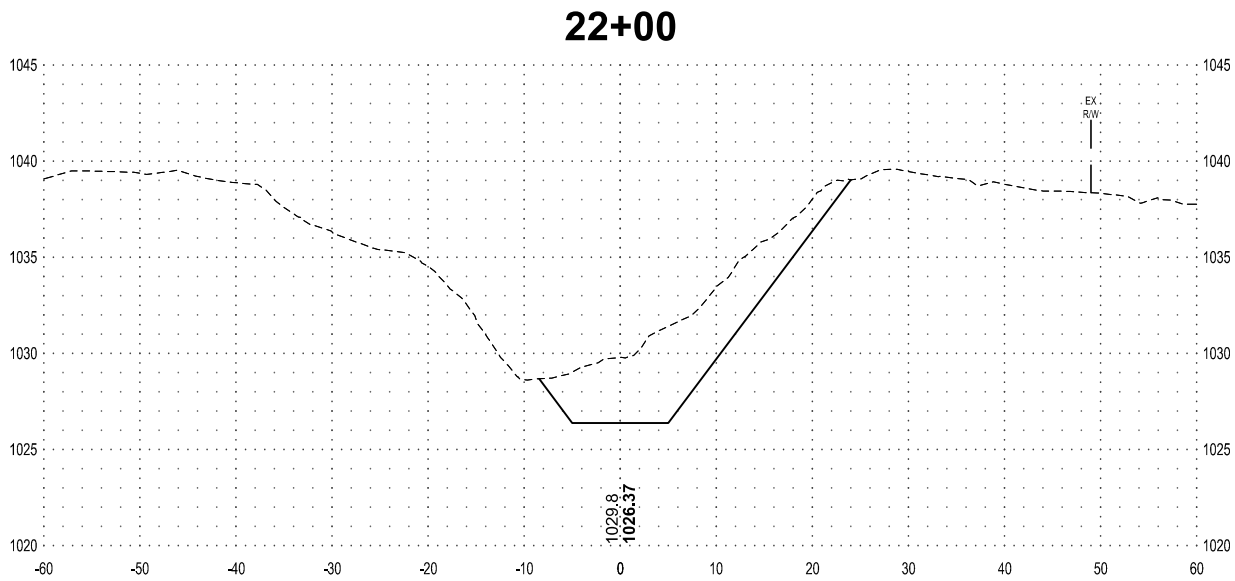
SHEET

X.02

PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND E XXX.XX - PROPOSED GROUND E



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PROJECT

**OLIVER LAKE
MAIN OPEN DITCH
REPAIR**

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.03

PRELIMINARY NOT FOR CONSTRUCTION



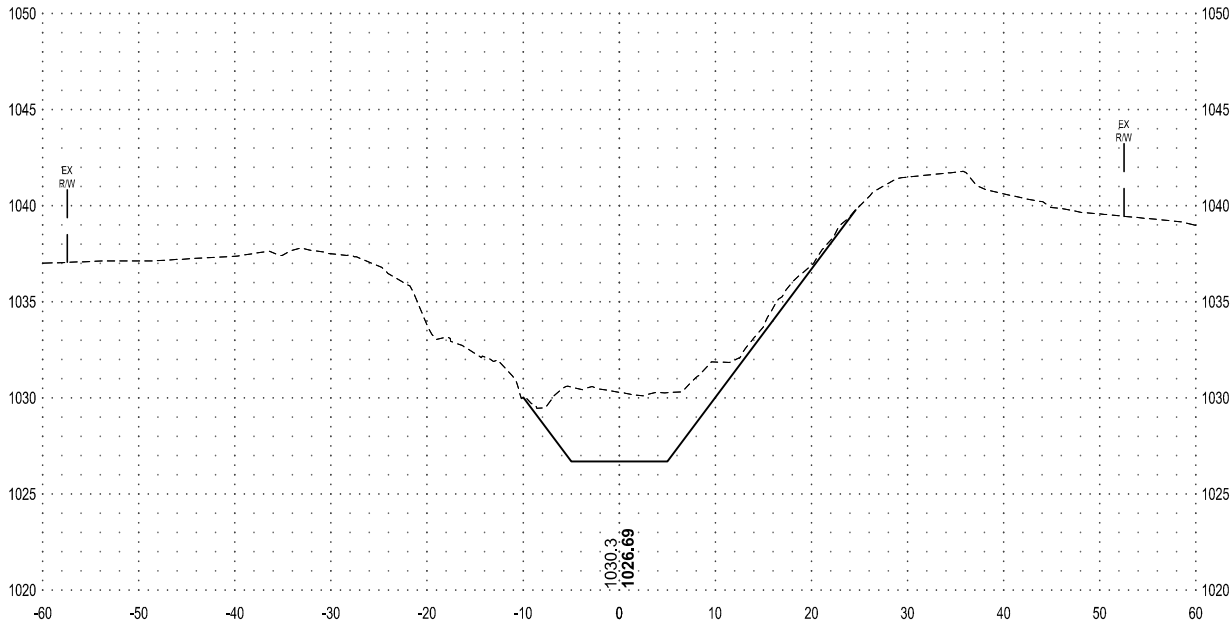
SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

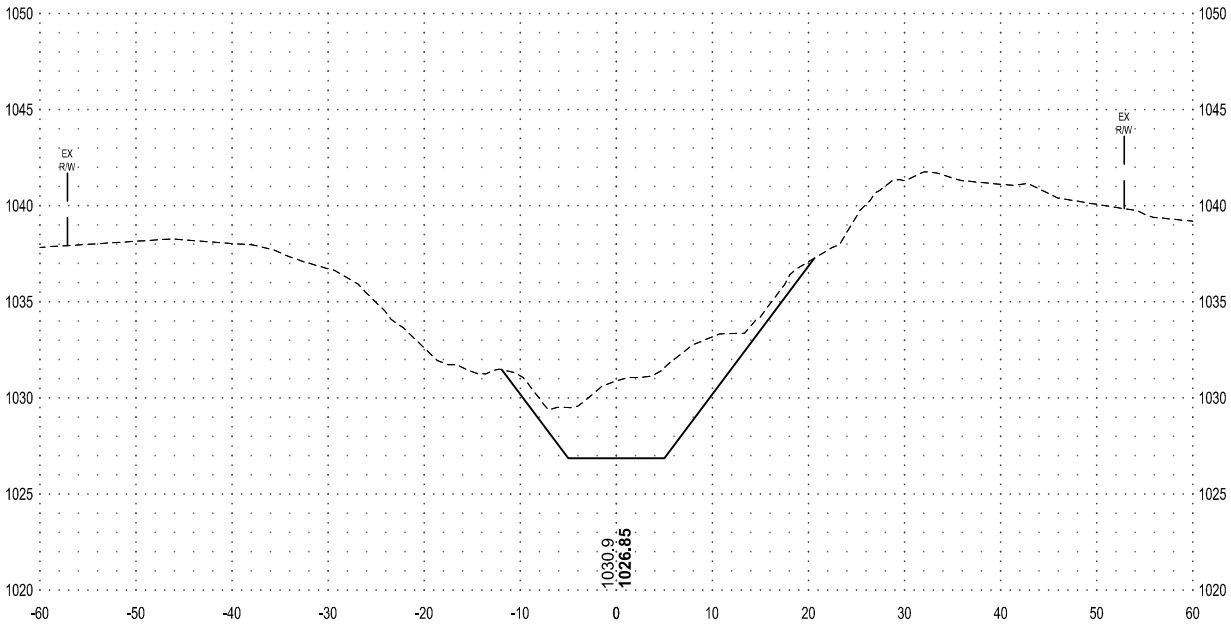
--- EXISTING GROUND
--- PROPOSED GROUND

1000.0
1000.00
XXX.X - EXISTING GROUND E
XXX.XX - PROPOSED GROUND E

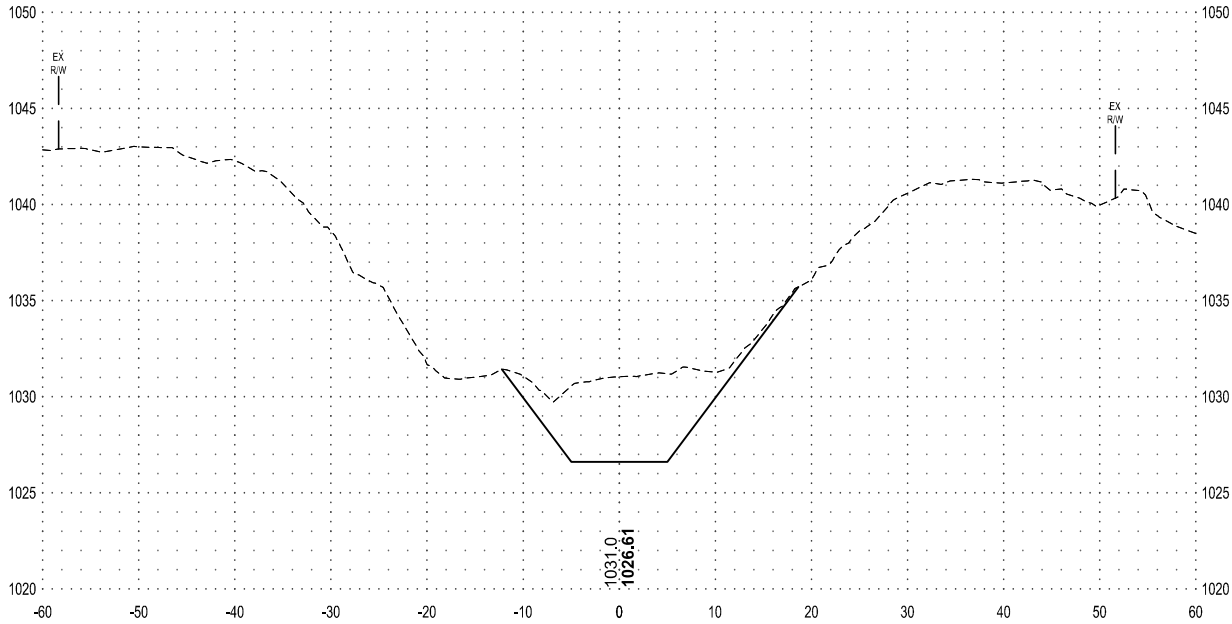
30+00



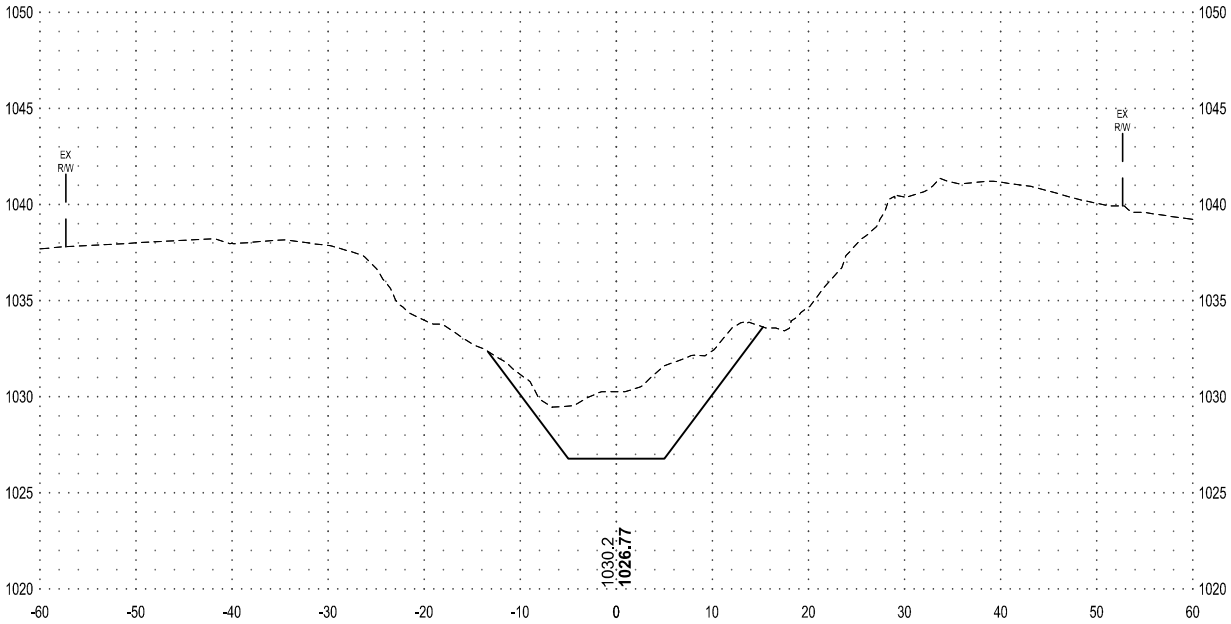
34+00



28+00



32+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.04

PRELIMINARY NOT FOR CONSTRUCTION

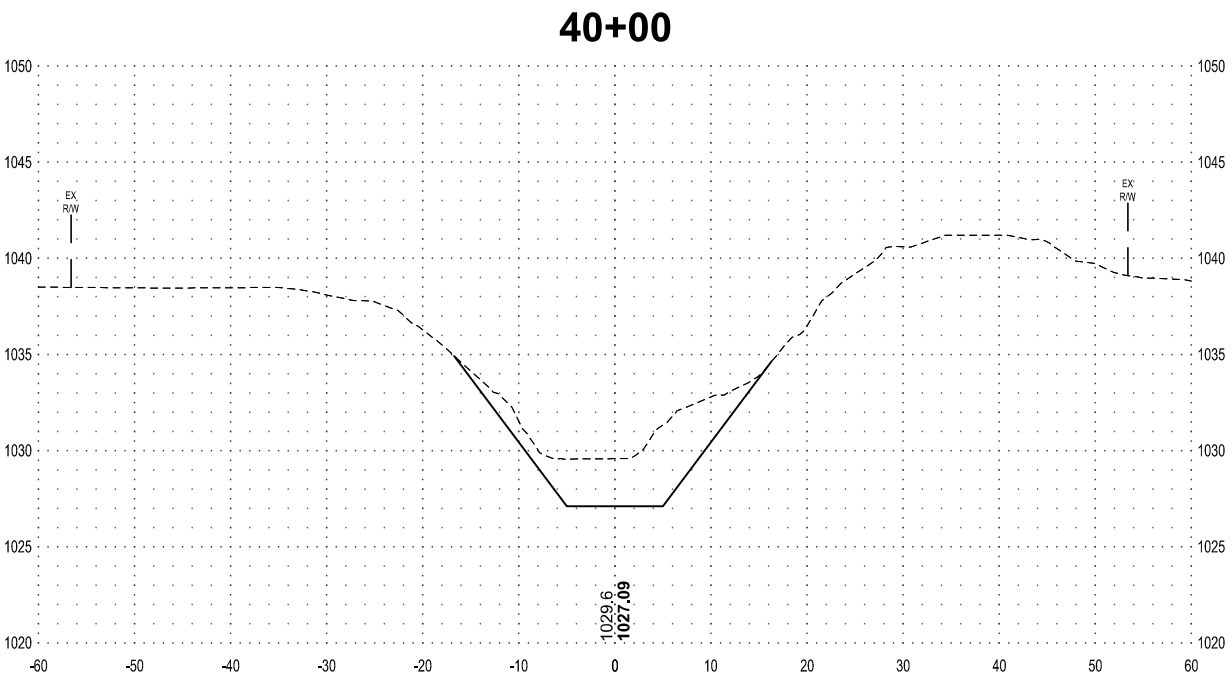
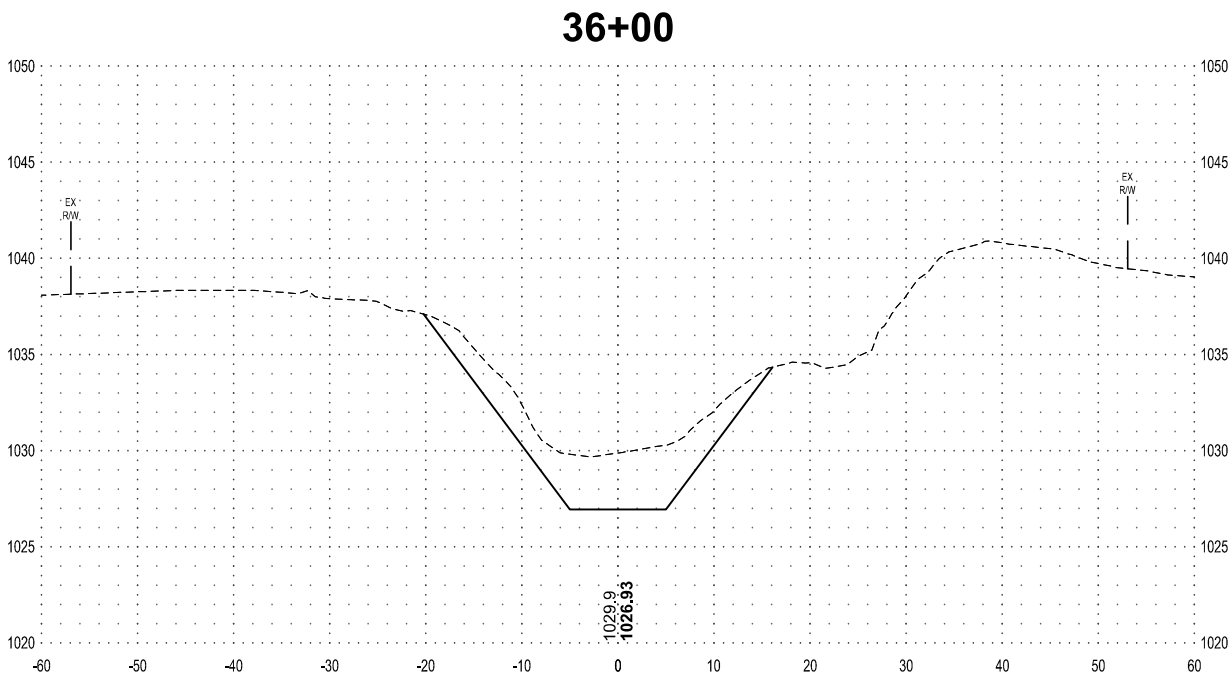
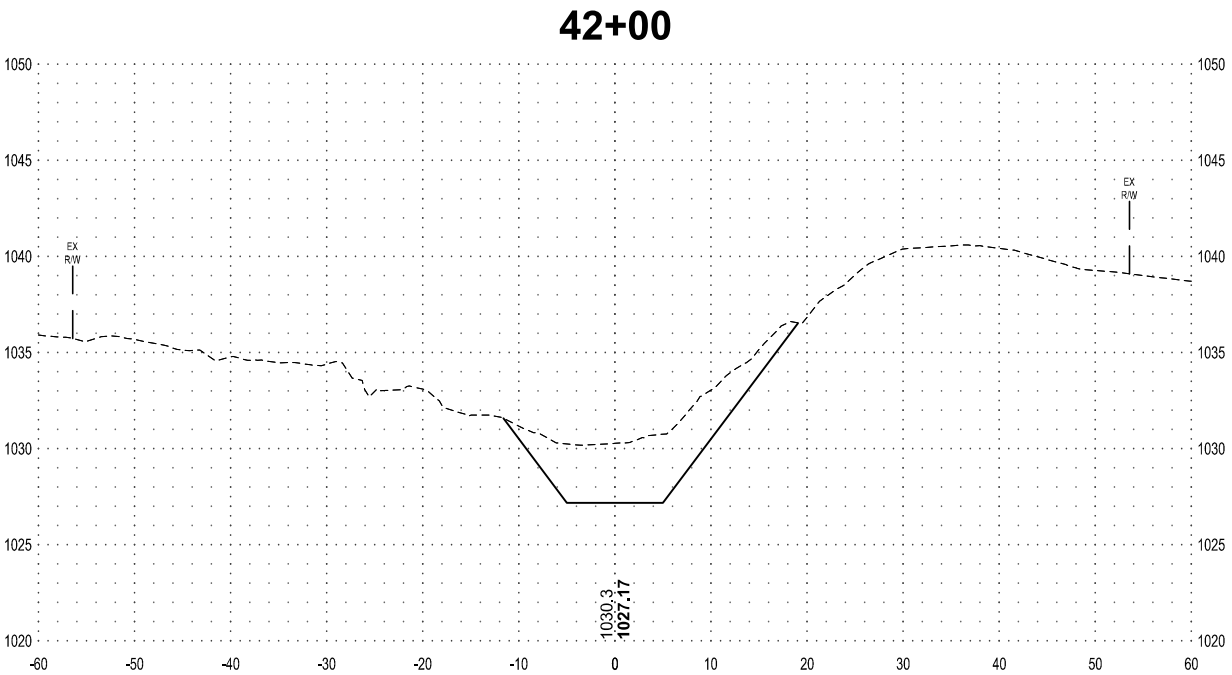
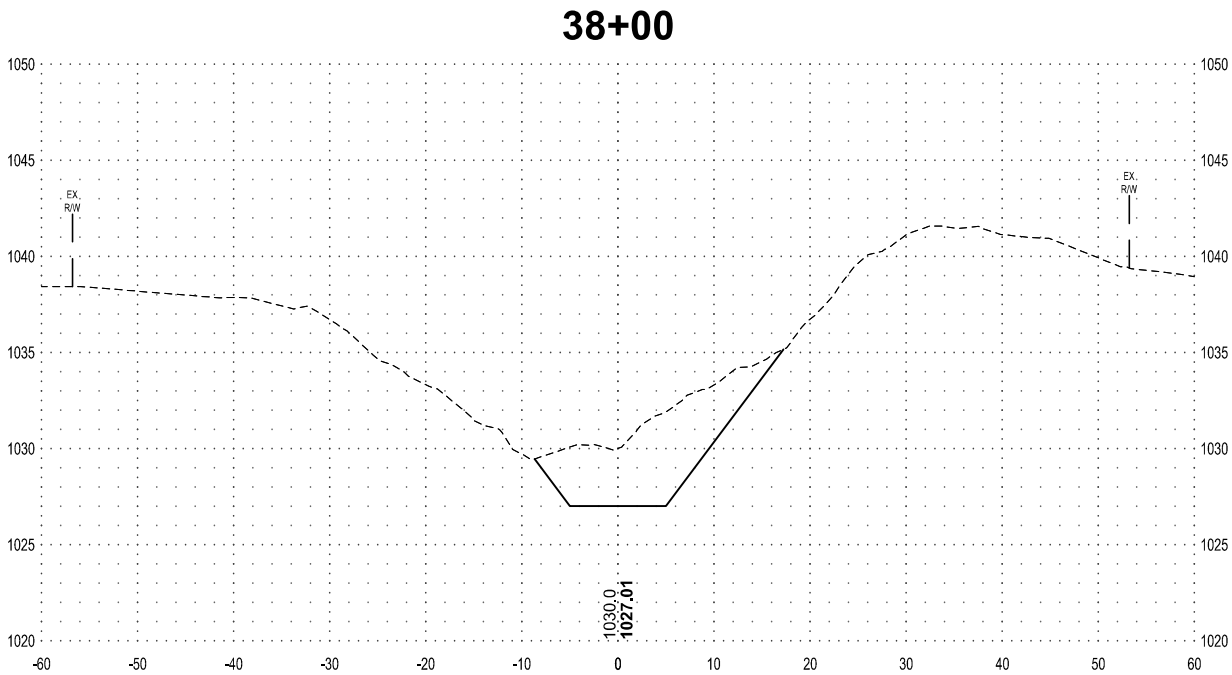


SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

--- EXISTING GROUND
--- PROPOSED GROUND

XXX.X - EXISTING GROUND ELEVATION
XXX.XX - PROPOSED GROUND ELEVATION



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.05

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SECTION VIEW LEGEND

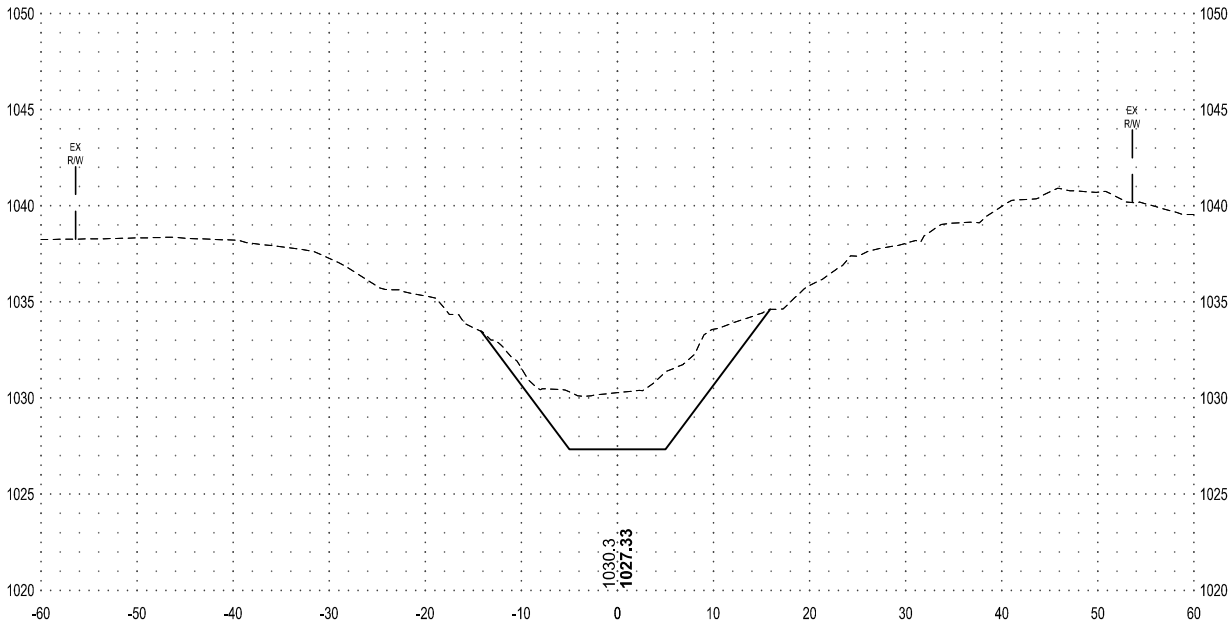
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

--- EXISTING GROUND

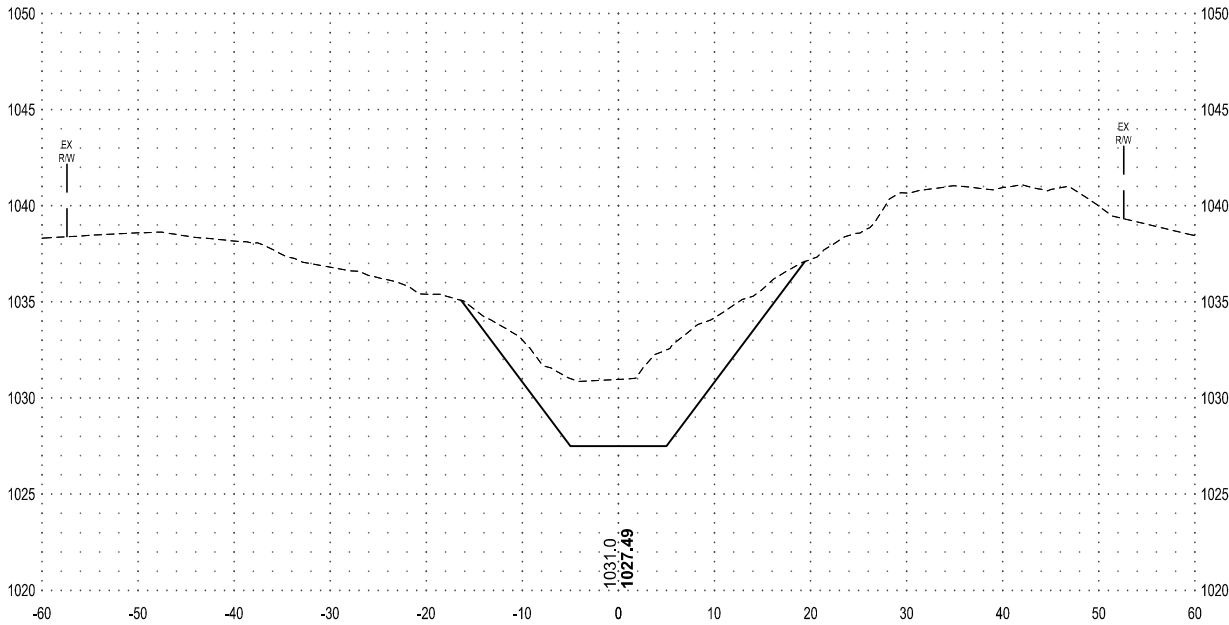
— PROPOSED GROUND

1000.0
1000.00
XXX.X - EXISTING GROUND E
XXX.XX - PROPOSED GROUND E

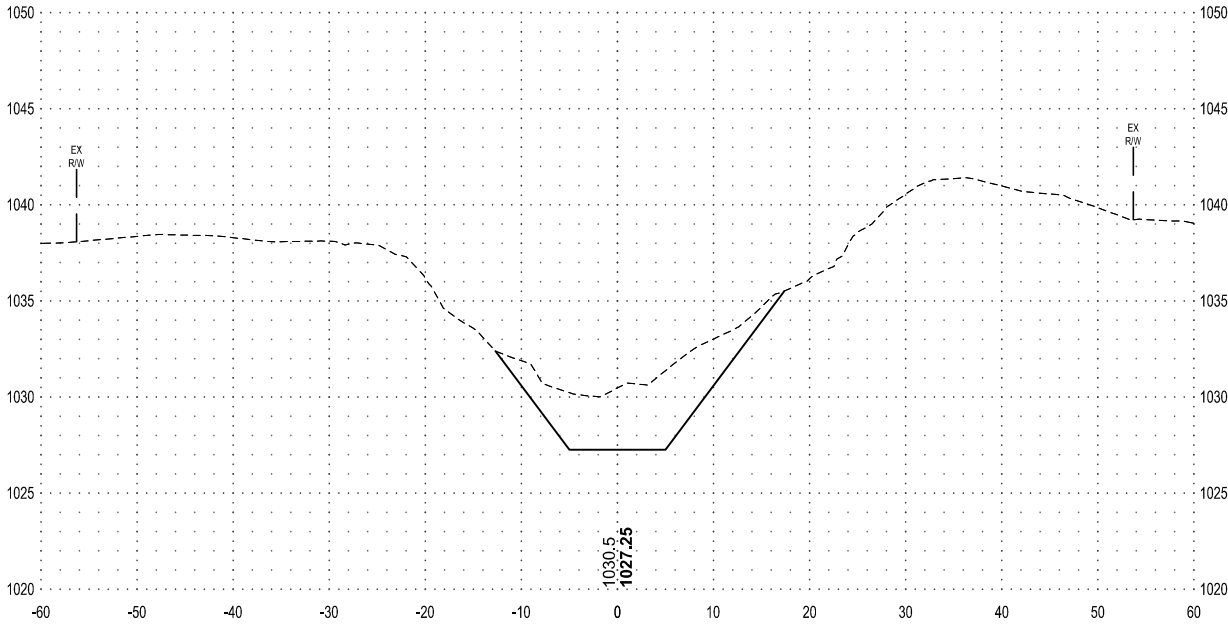
46+00



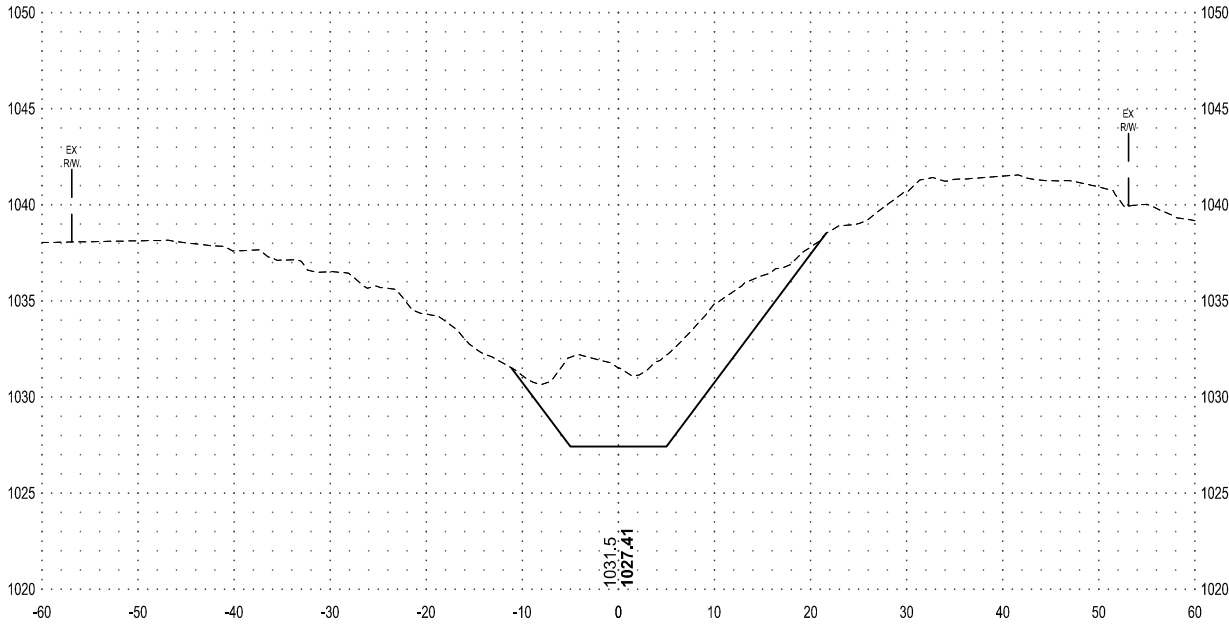
50+00



44+00



48+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.06

PRELIMINARY NOT FOR CONSTRUCTION

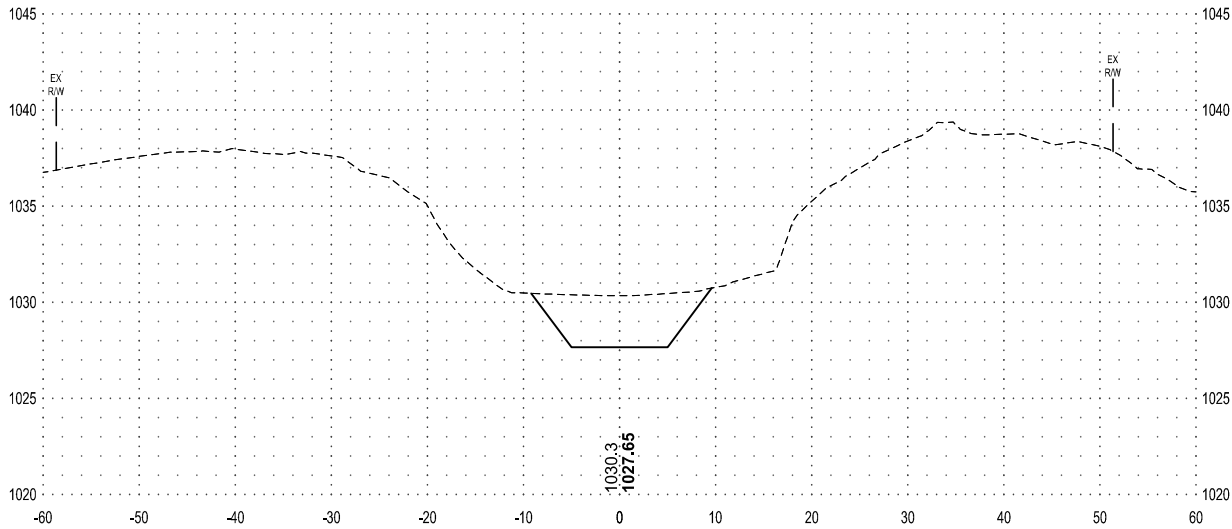


SECTION VIEW LEGEND

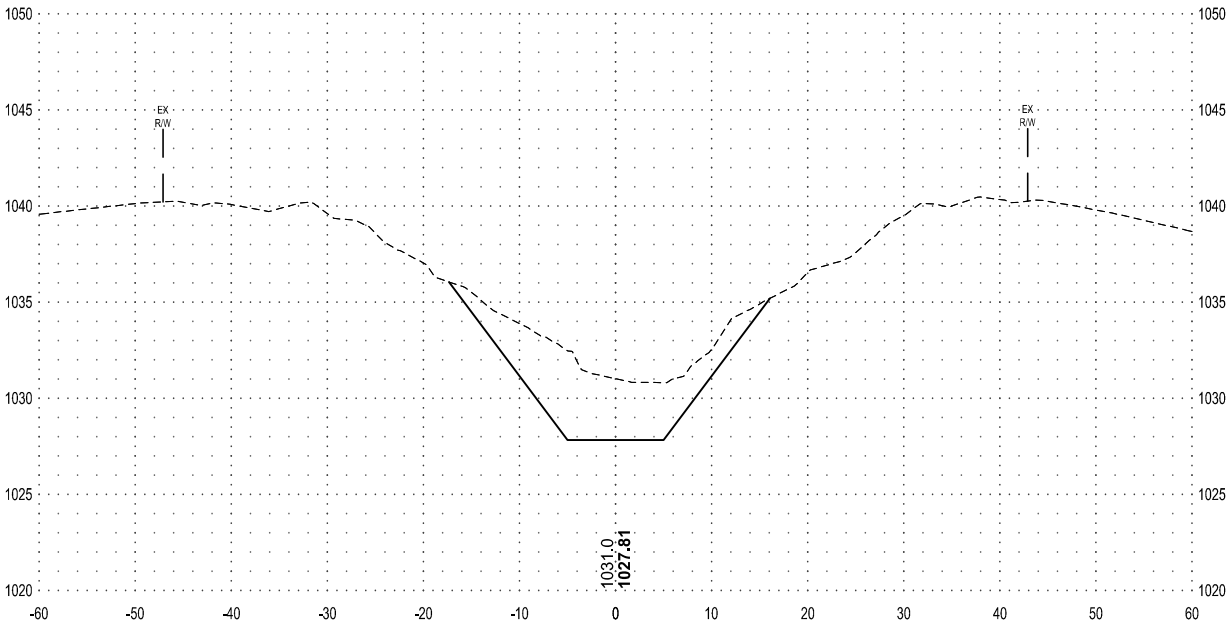
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND ℓ XXX.XX - PROPOSED GROUND ℓ

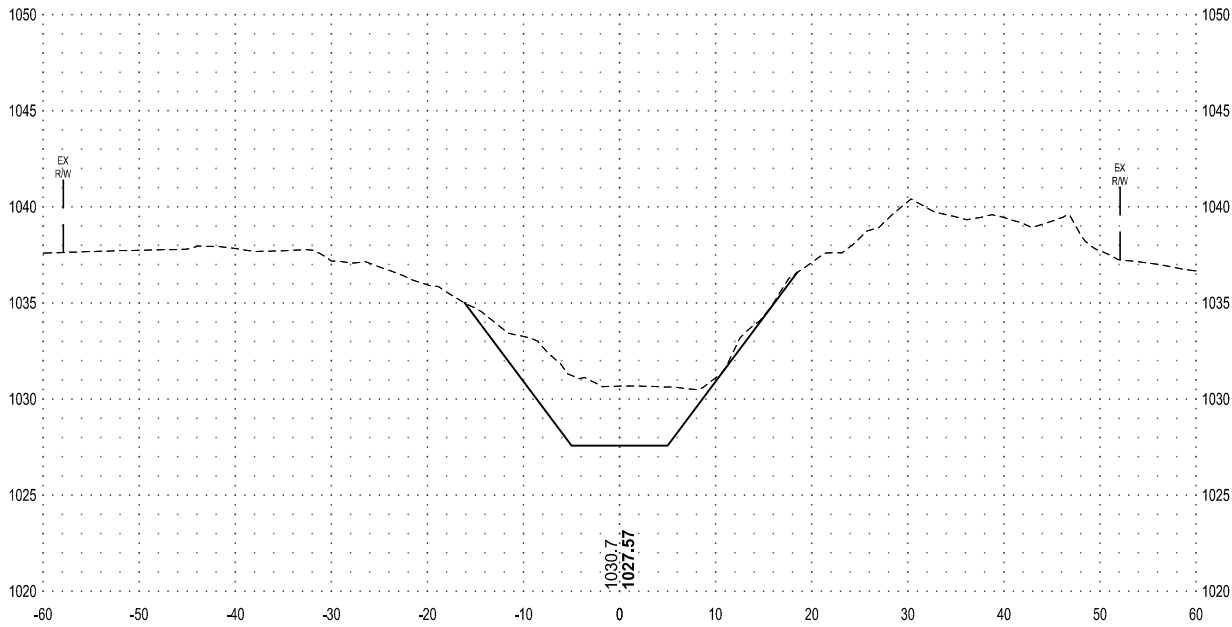
54+00



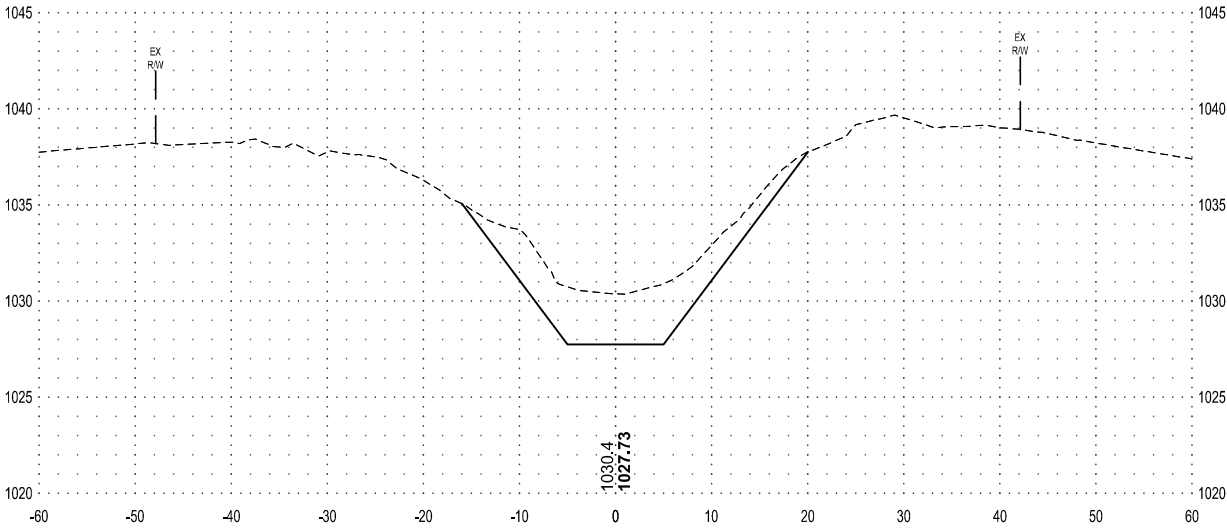
58+00



52+00



56+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.07

PRELIMINARY NOT FOR CONSTRUCTION

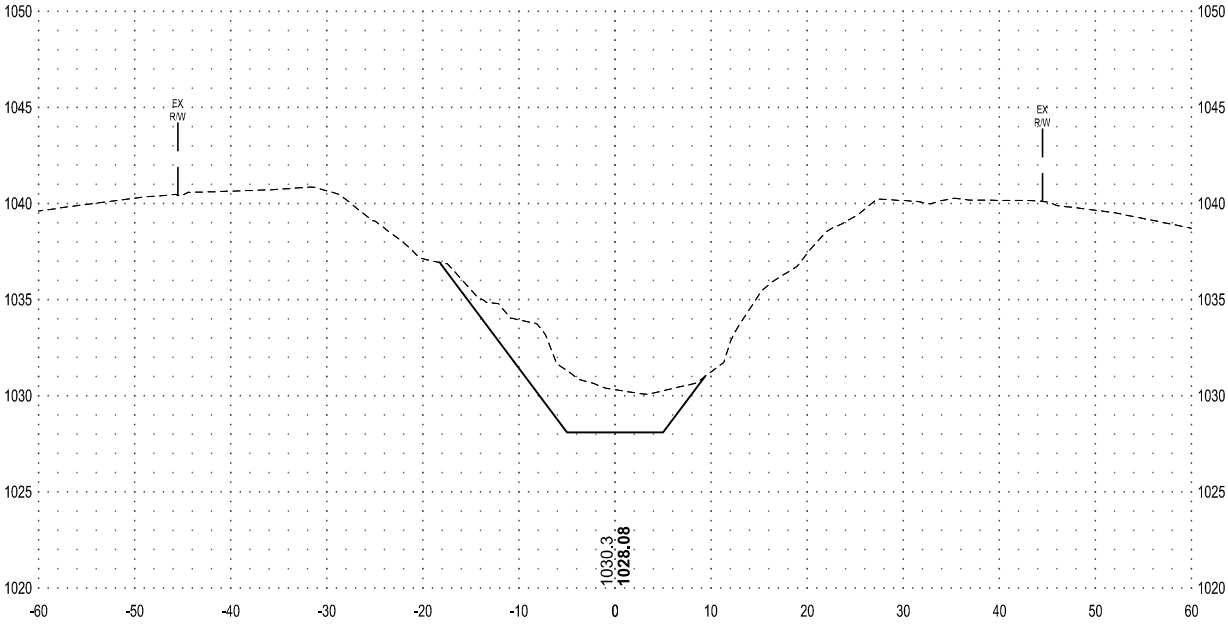


SECTION VIEW LEGEND

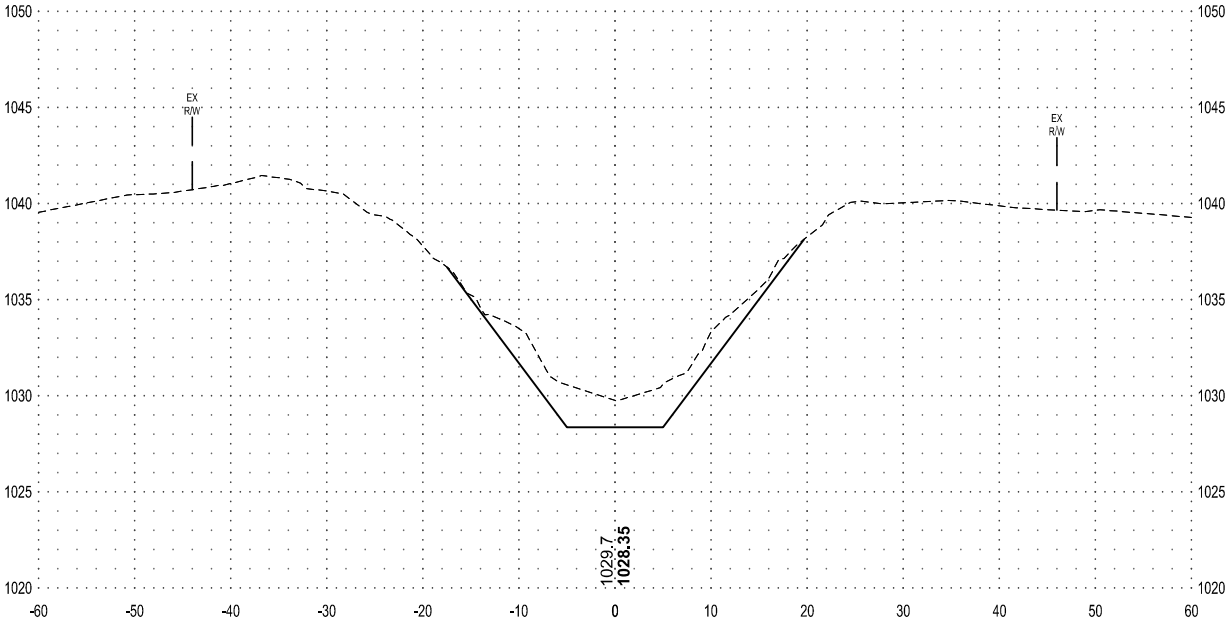
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

---	EXISTING GROUND
---	PROPOSED GROUND
1000.0 1000.00	XXXX - EXISTING GROUND ϕ XXXX - PROPOSED GROUND ϕ

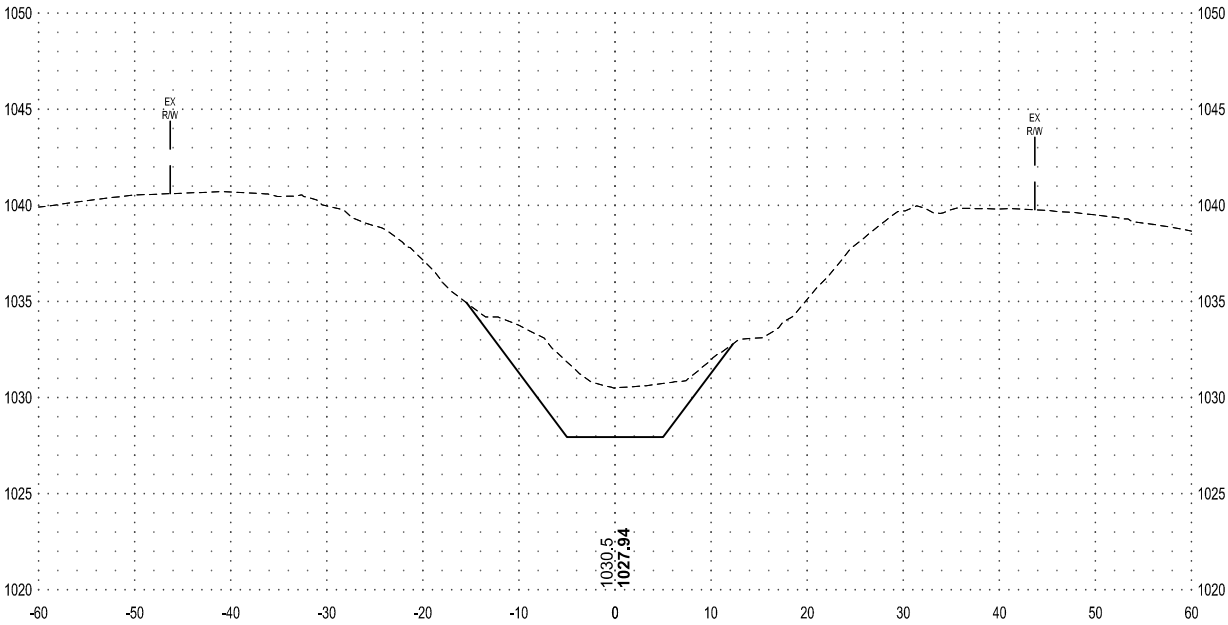
62+00



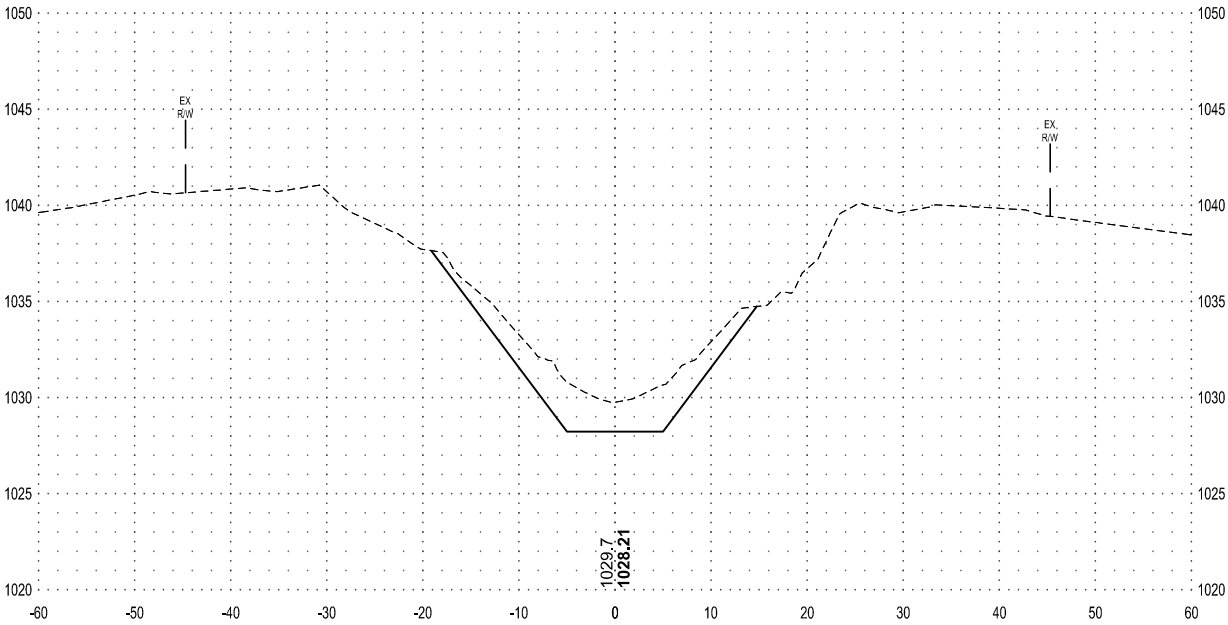
66+00



60+00



64+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.08

PRELIMINARY NOT FOR CONSTRUCTION

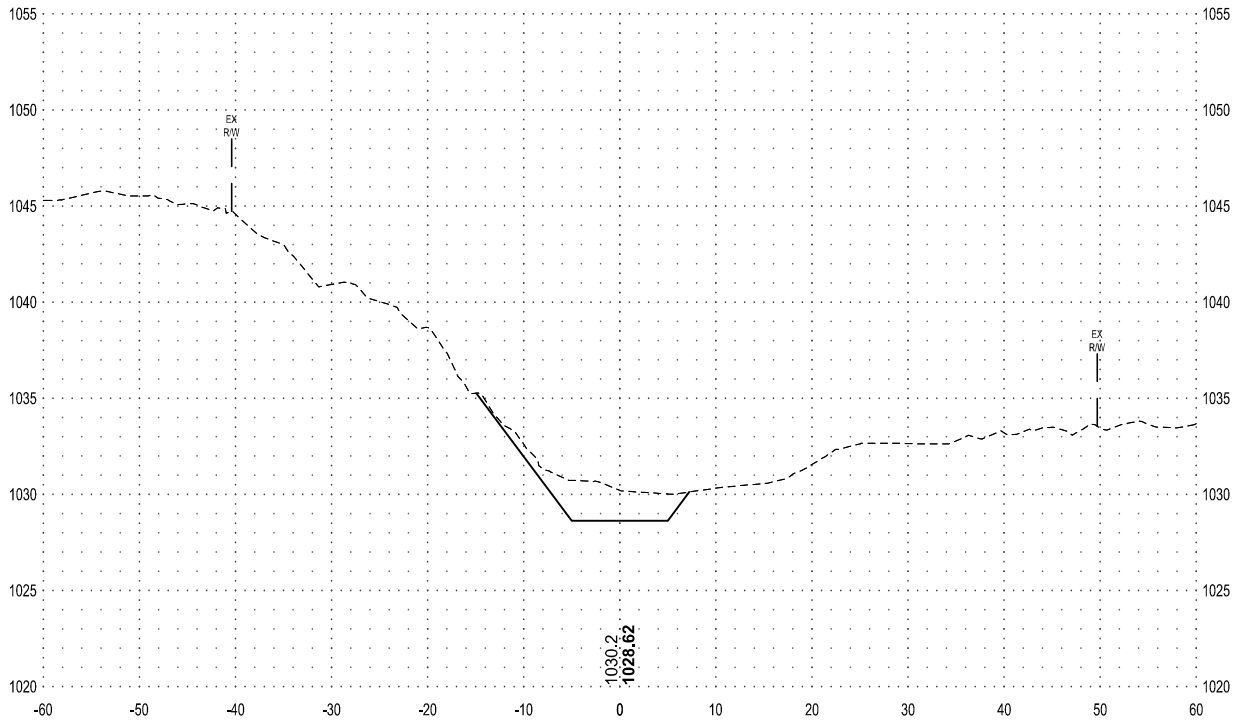


SECTION VIEW LEGEND

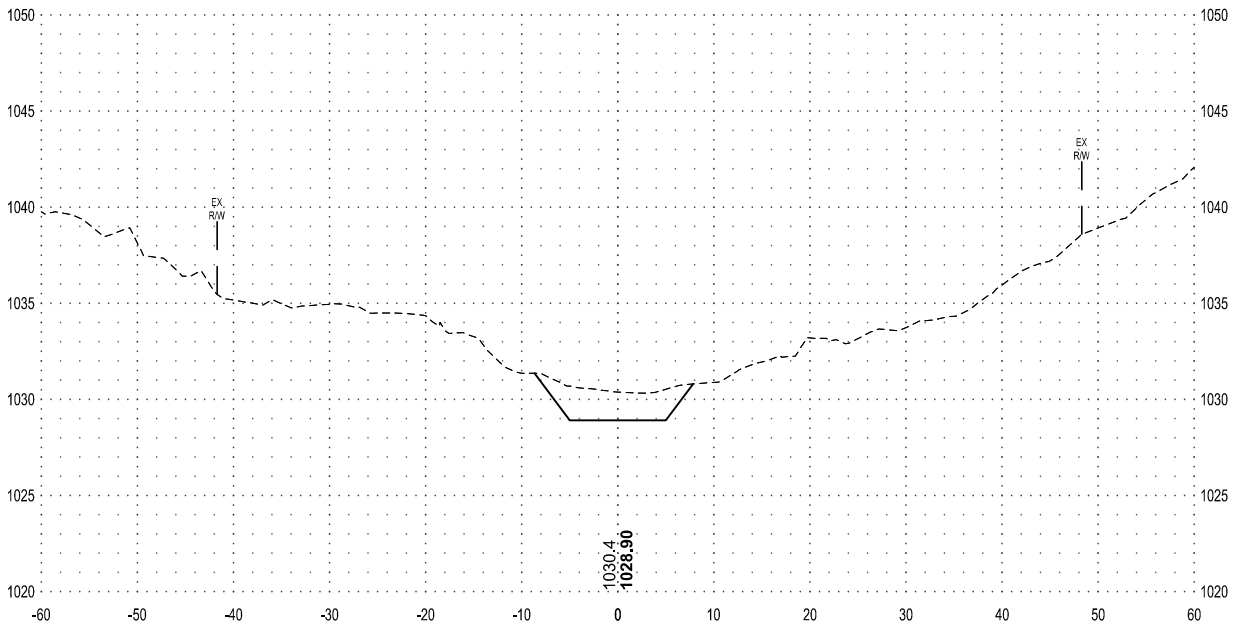
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
———	PROPOSED GROUND
1000.0 1000.0	XXXX - EXISTING GROUND E XXXXX - PROPOSED GROUND E

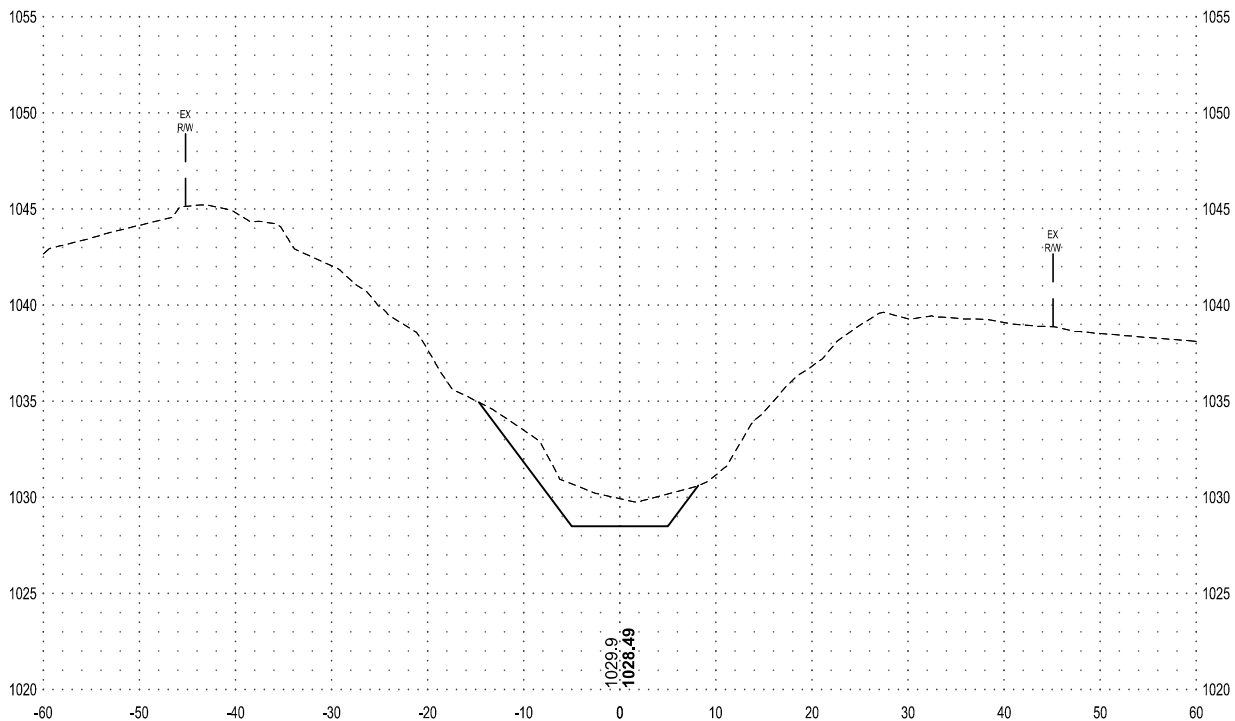
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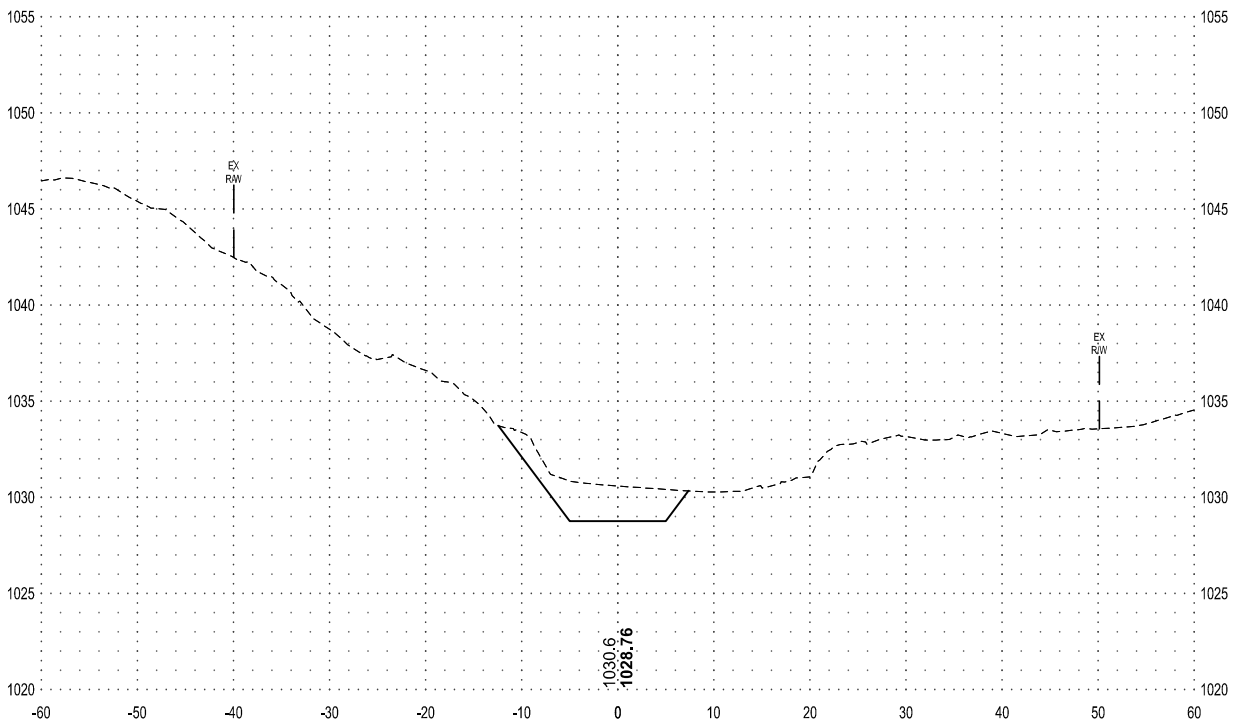
74+00



68+00



72+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.09

PRELIMINARY NOT FOR CONSTRUCTION PRELIMINARY NOT FOR CONSTRUCTION

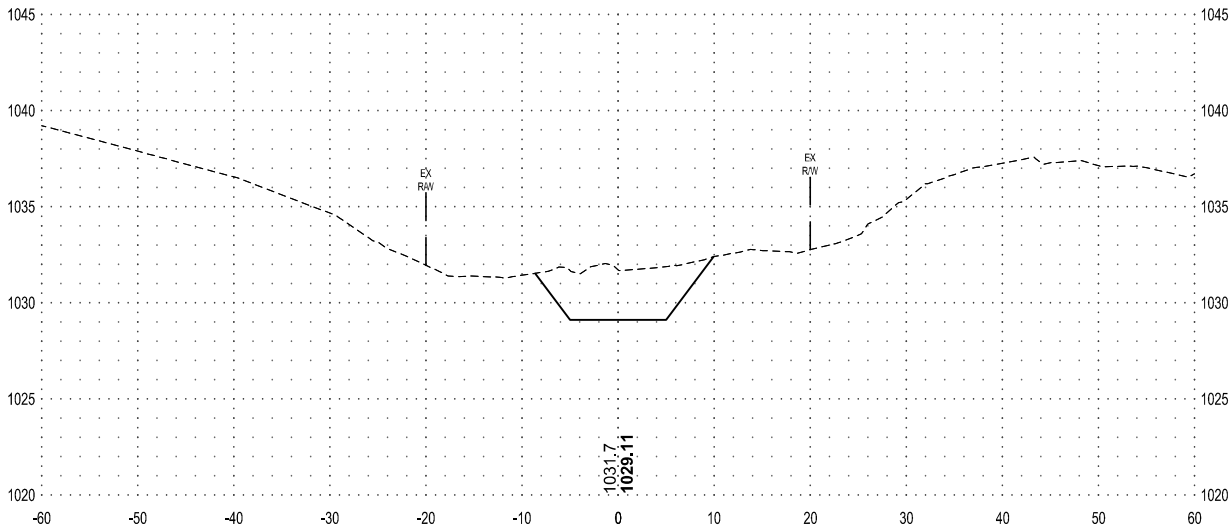


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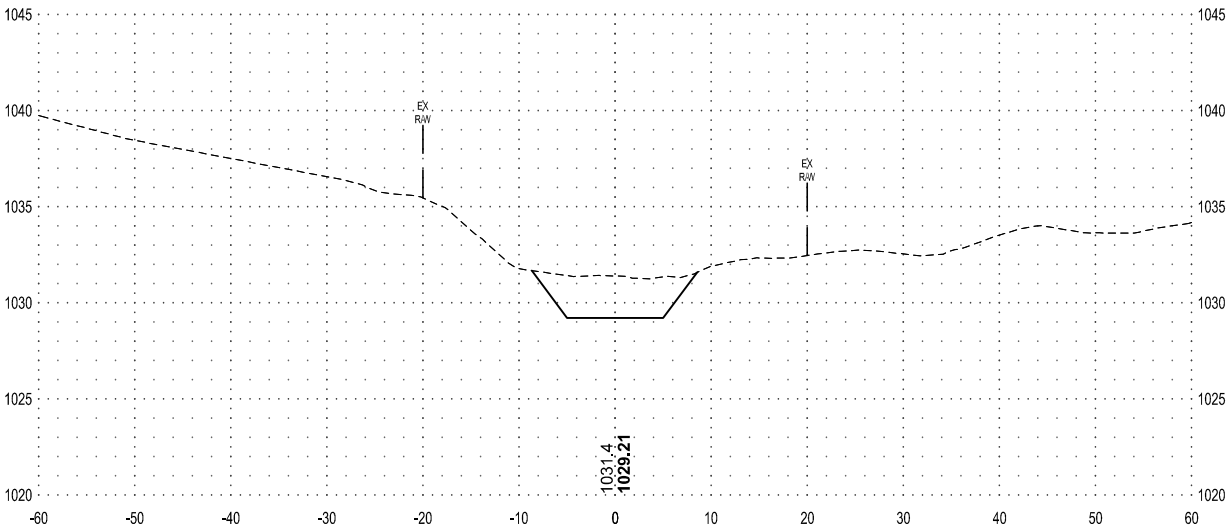
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
----	PROPOSED GROUND
1000.0 1000.00	XXXX - EXISTING GROUND ϕ XXXXX - PROPOSED GROUND ϕ

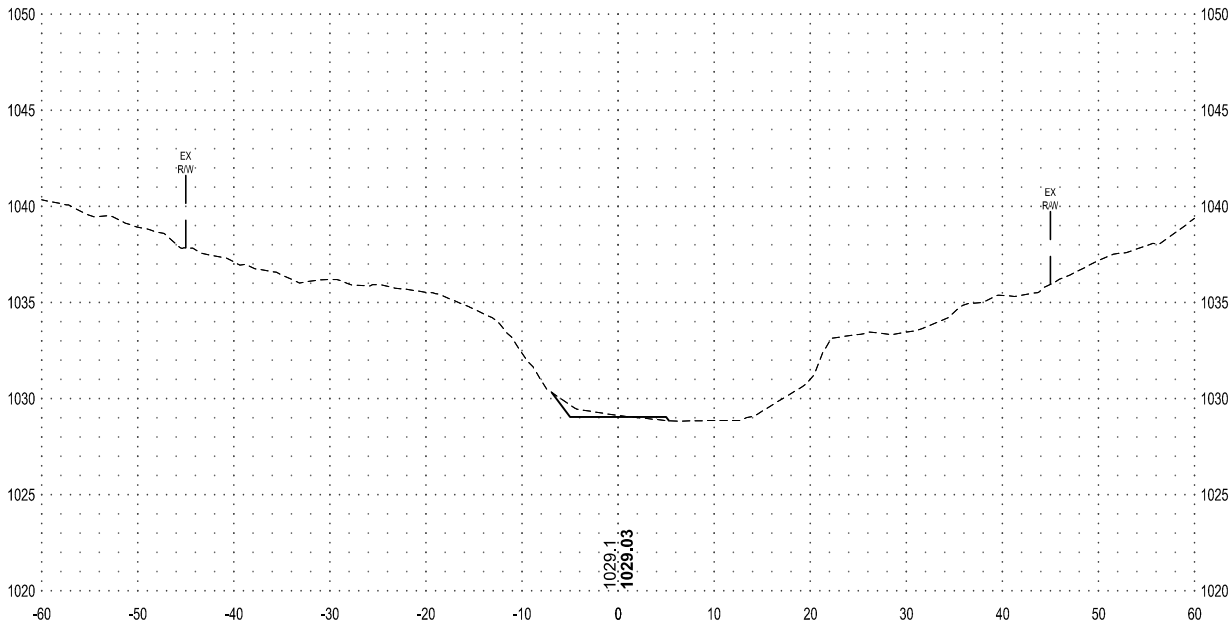
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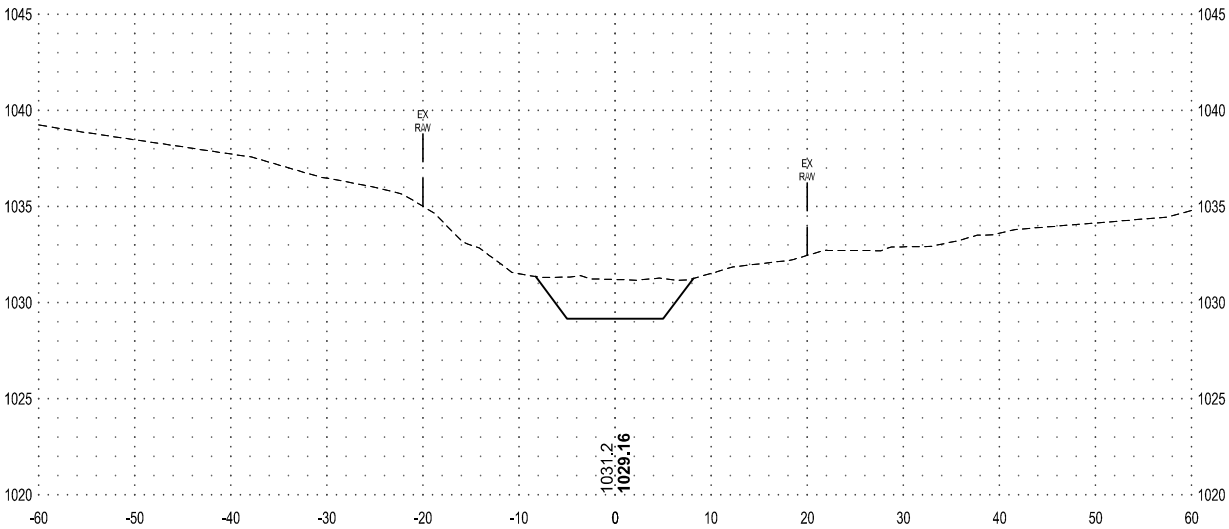
82+00



76+00



80+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
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REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

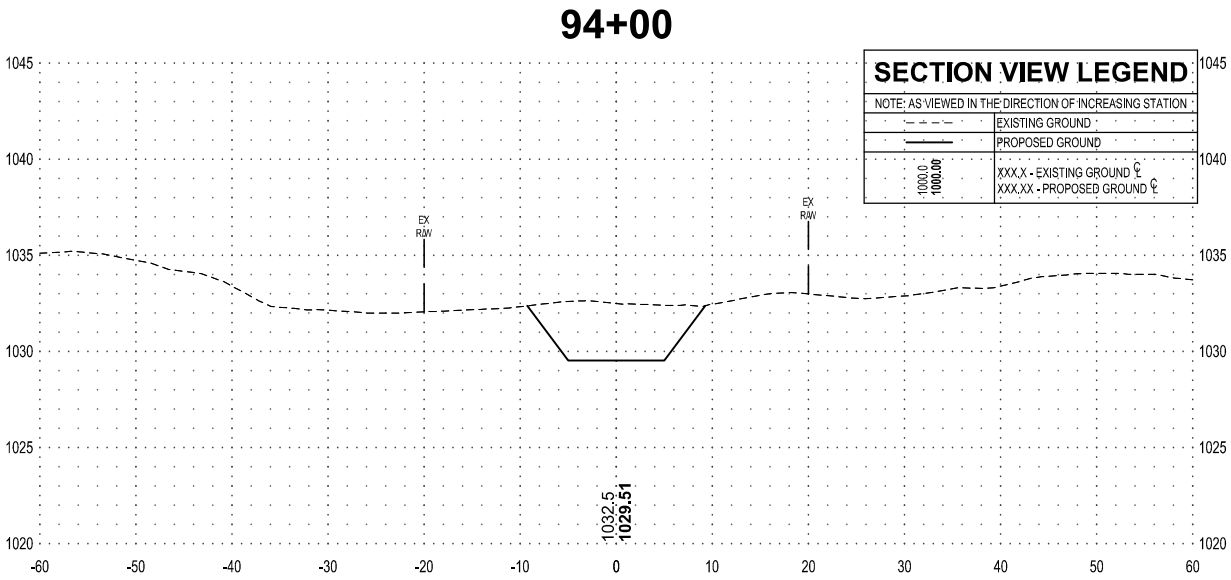
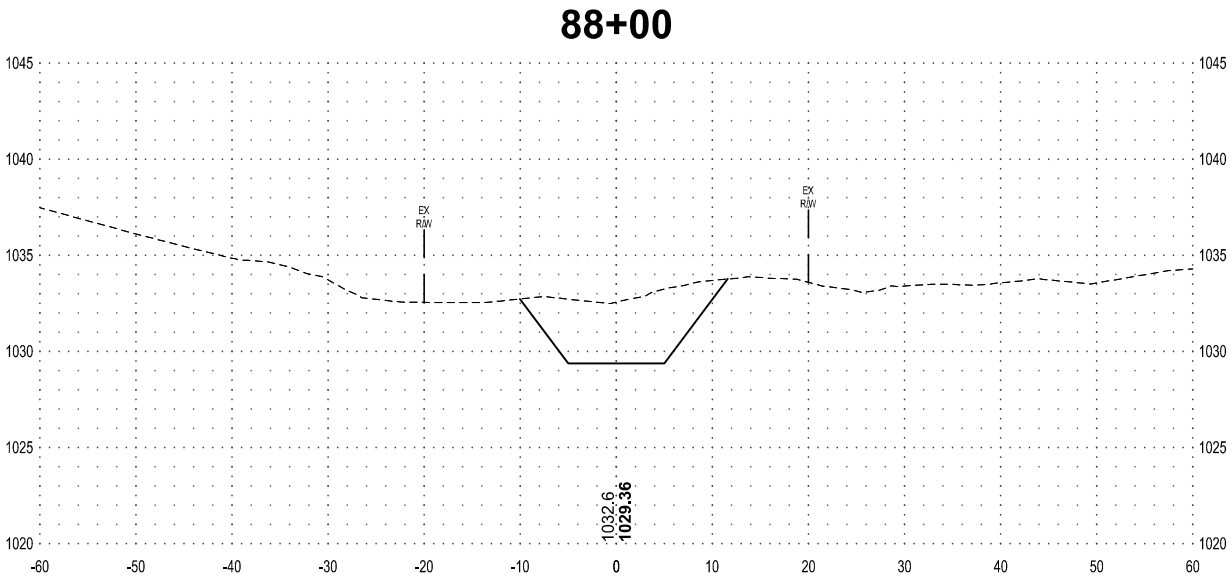
TITLE

SECTIONS

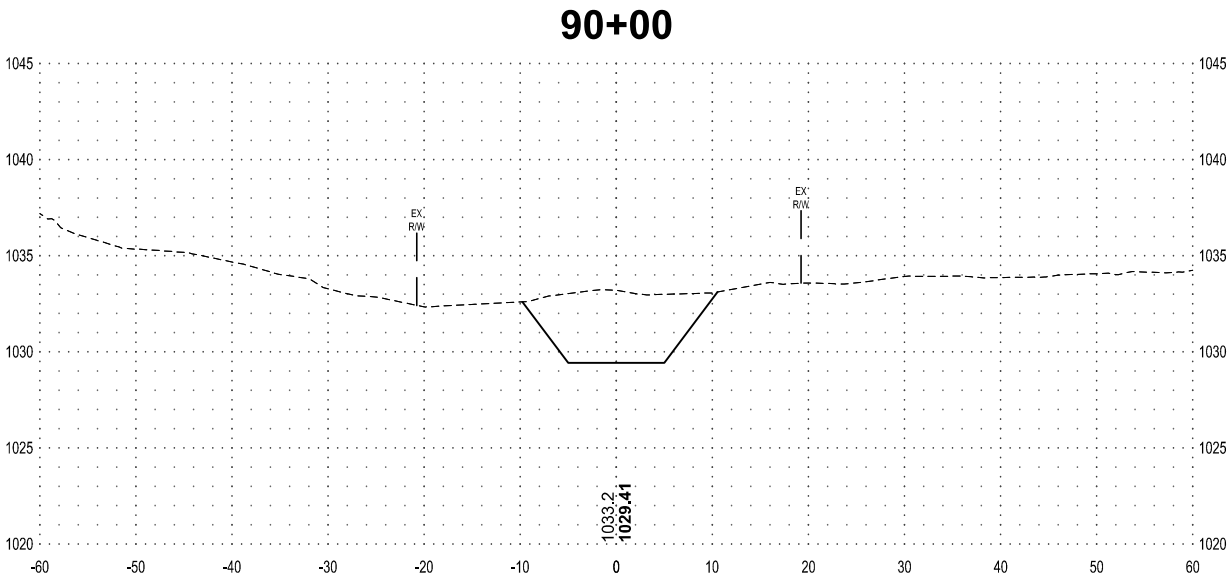
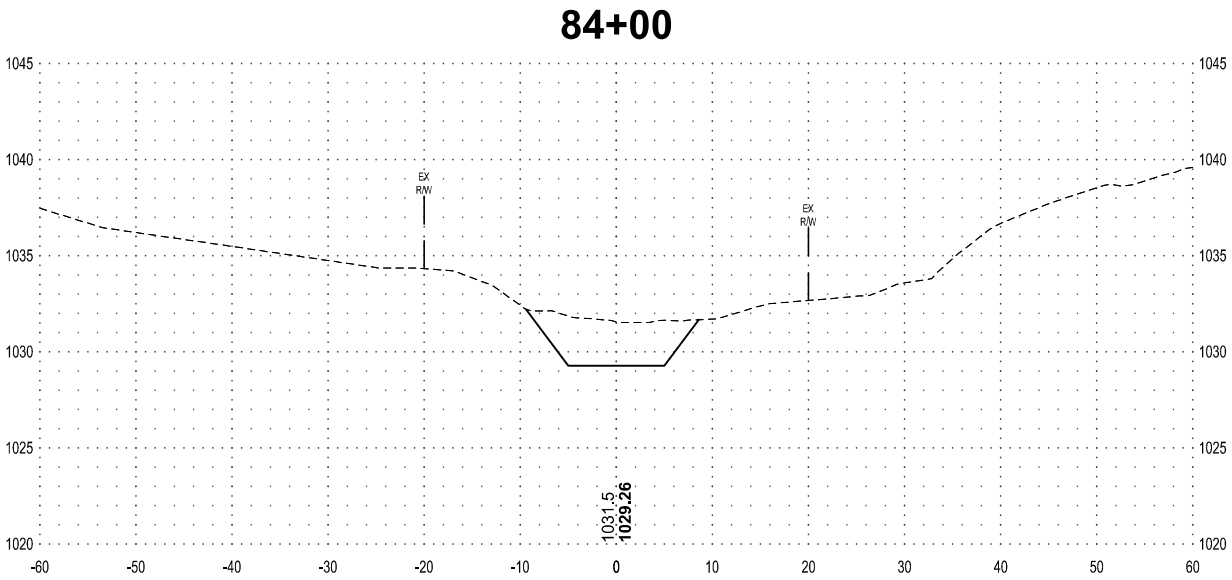
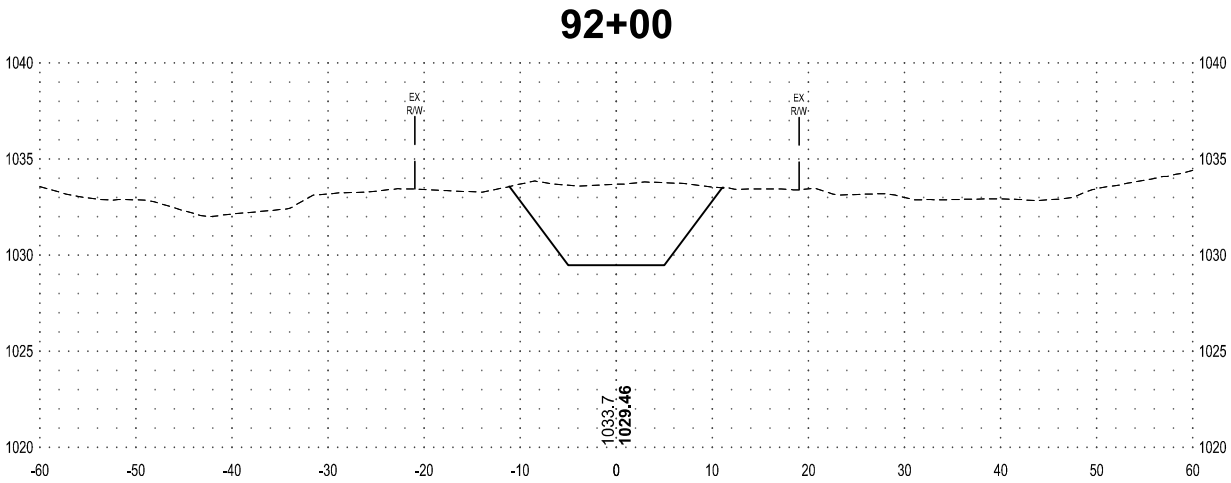
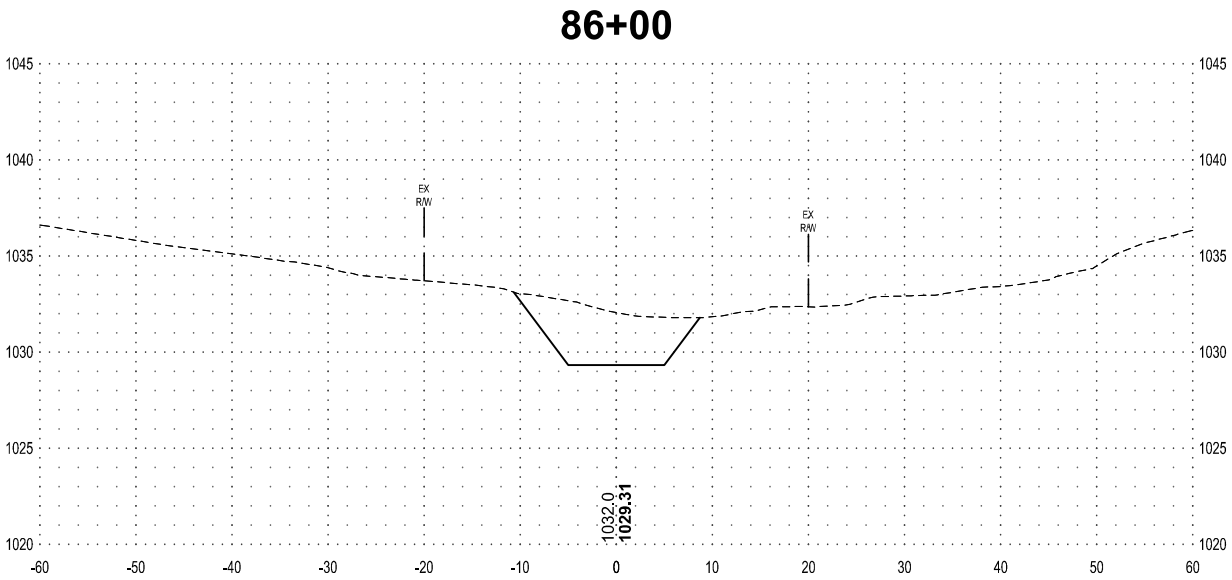
SHEET

X.10

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SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
	EXISTING GROUND
	PROPOSED GROUND
	EXISTING GROUND
	PROPOSED GROUND



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PROJECT

OLIVER LAKE MAIN OPEN DITCH REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

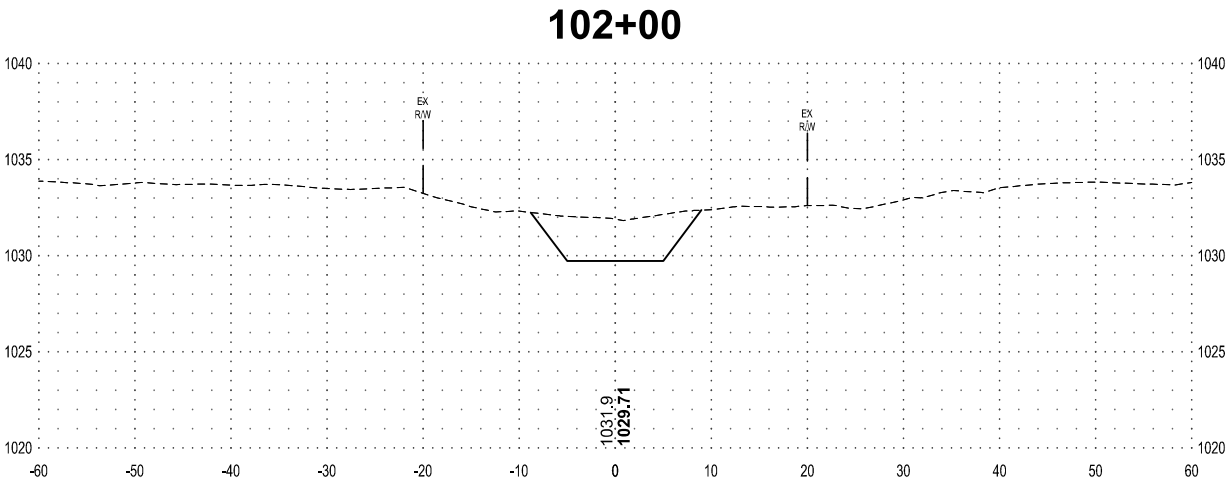
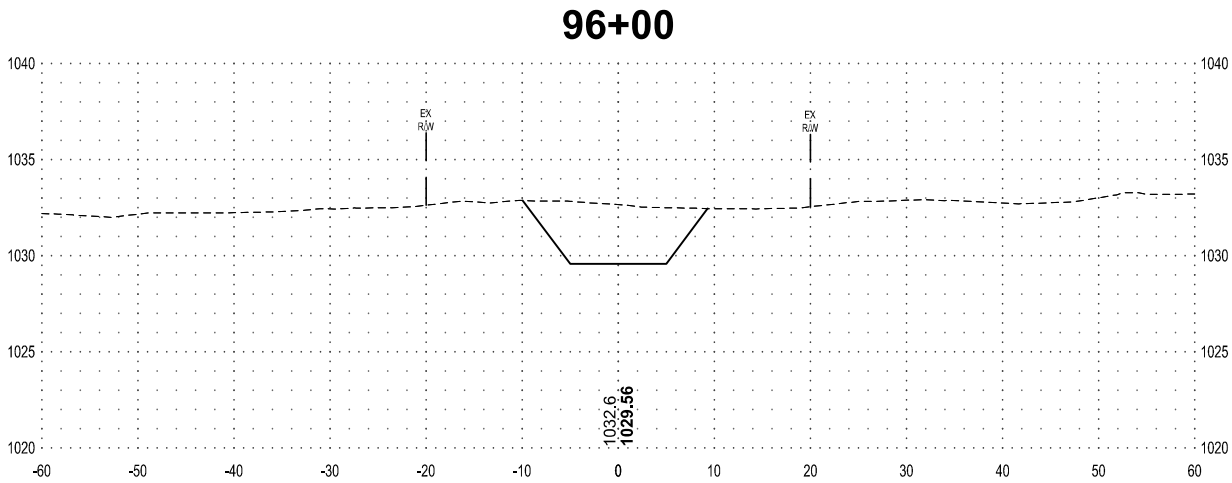
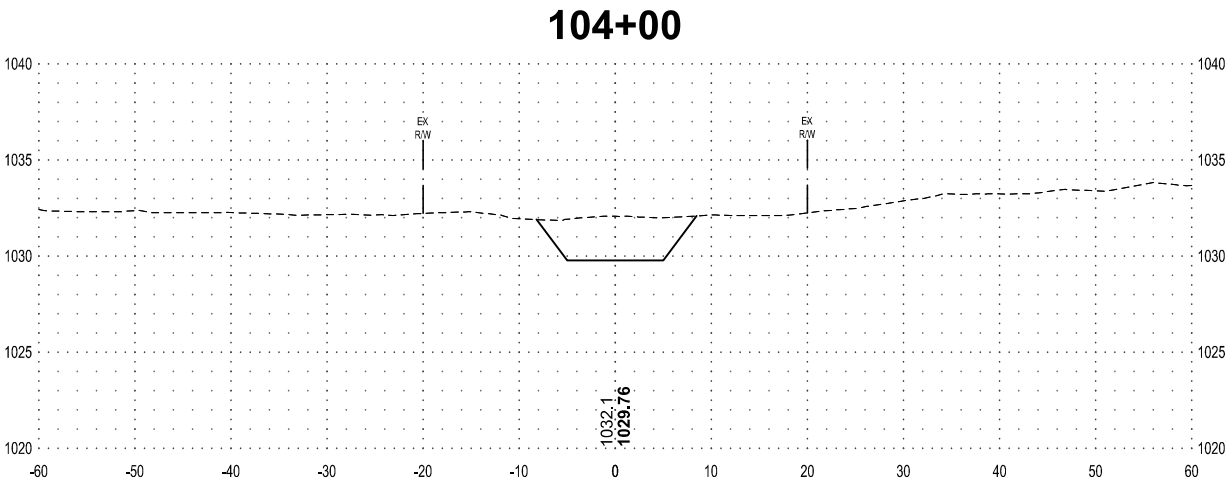
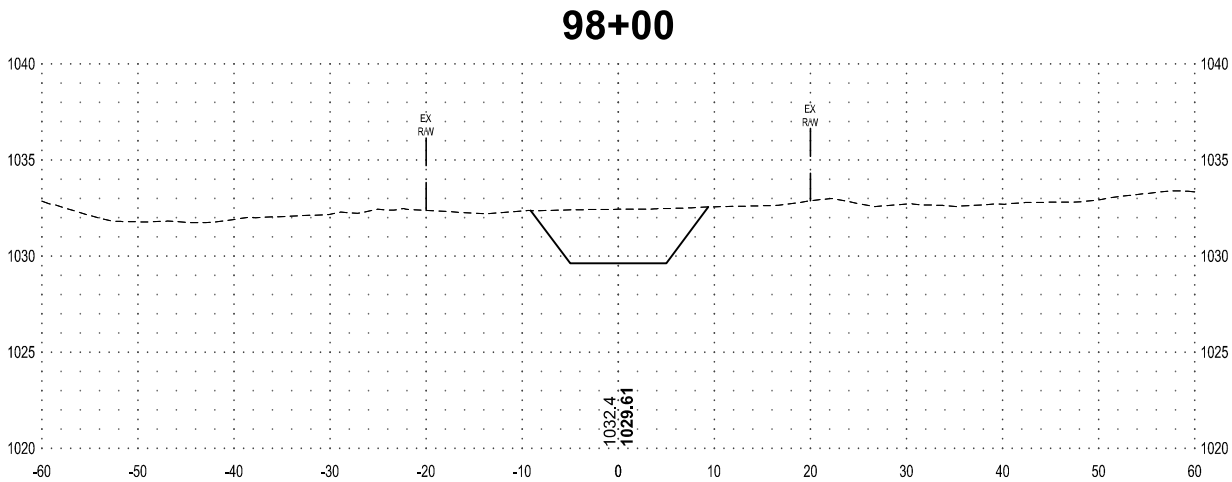
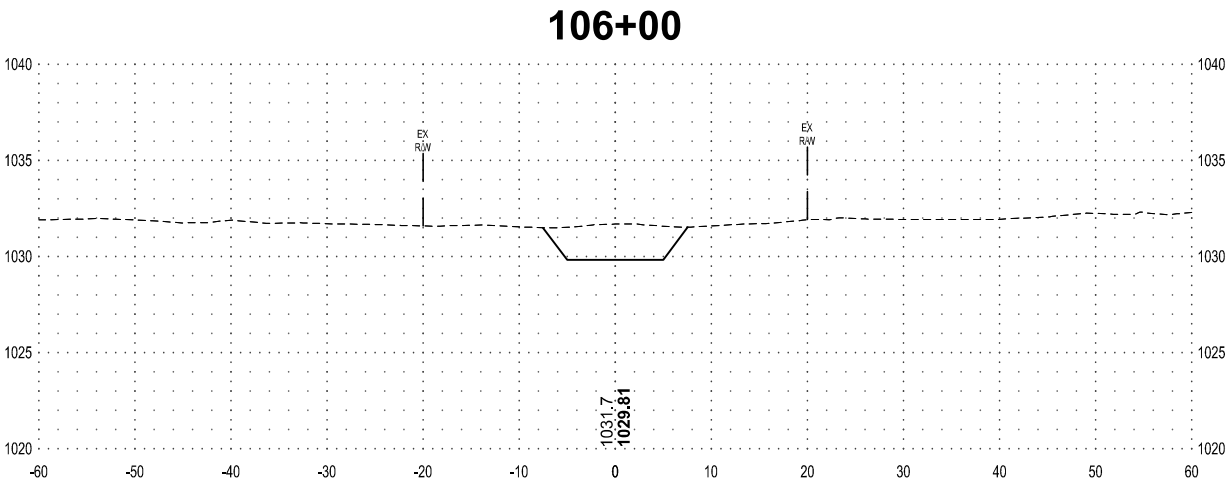
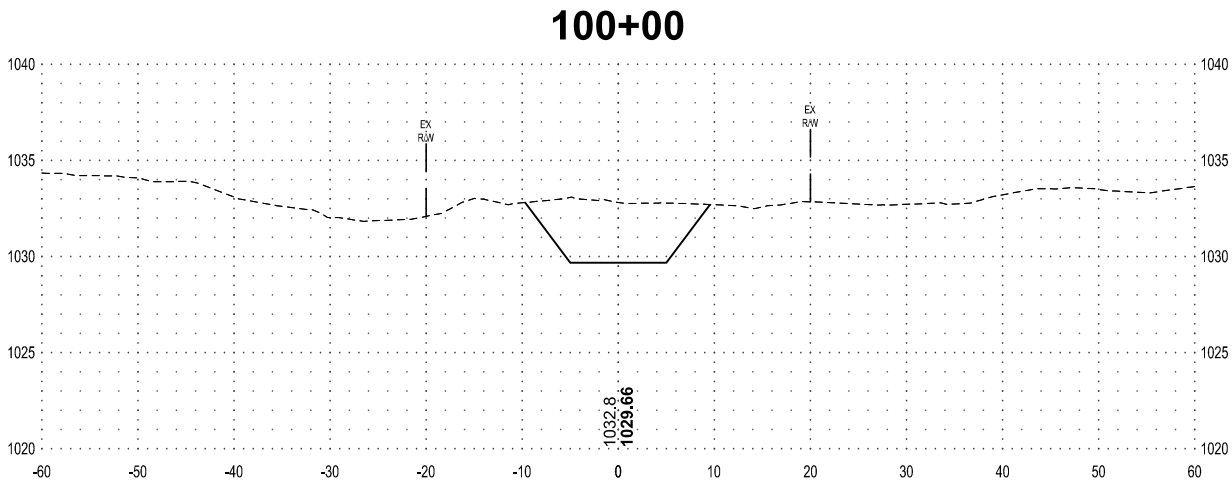
SHEET

X.11

PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
----	EXISTING GROUND
----	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND @ XXX.XX - PROPOSED GROUND @



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	4/1/24
CLIENT PROJECT NO.	-

TITLE

SECTIONS

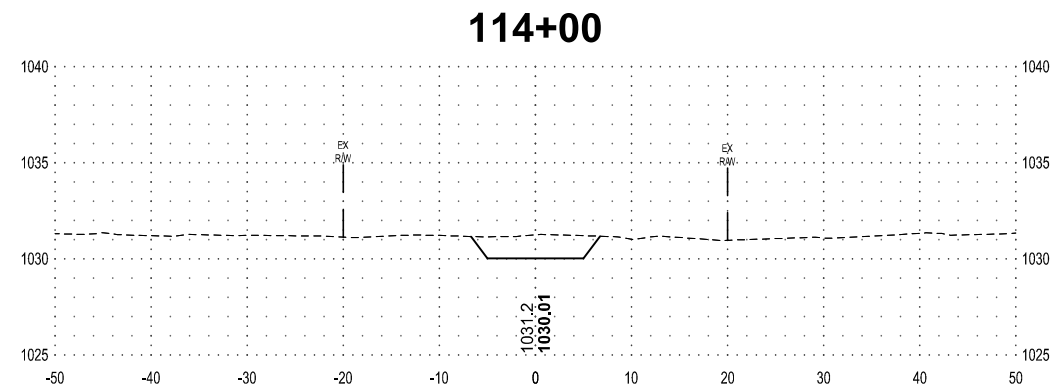
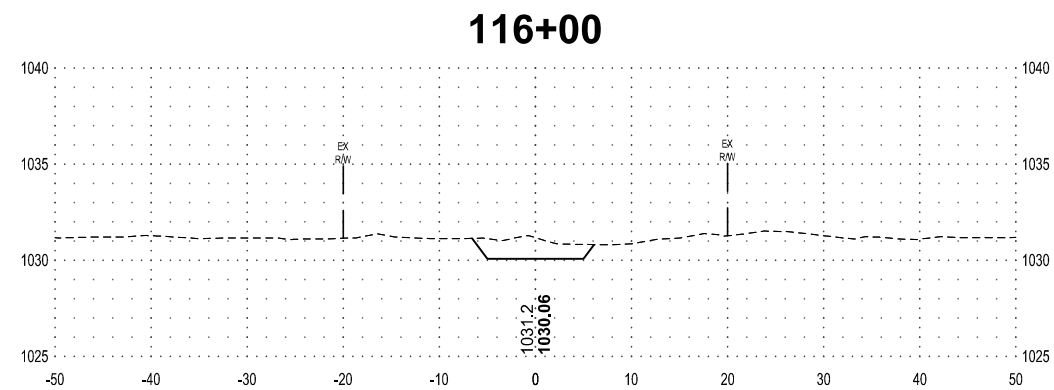
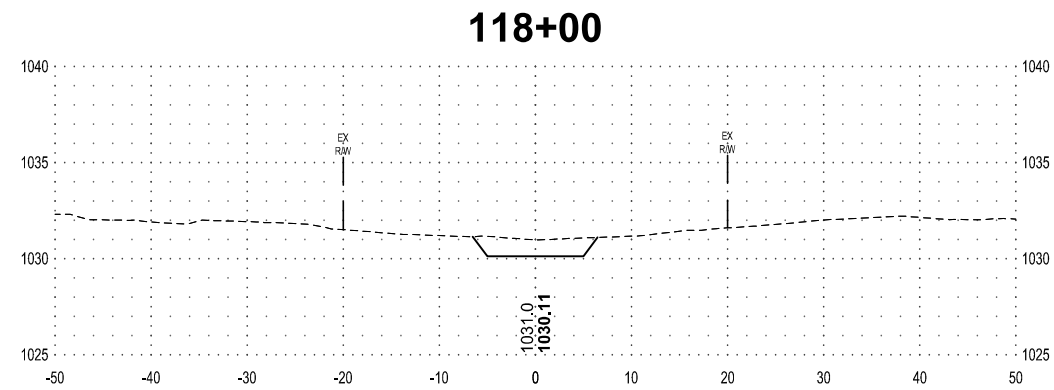
SHEET

X.12

PRELIMINARY NOT FOR CONSTRUCTION



1000.0	XXX.X - EXISTING GROUND €
1000.00	XXX.XX - PROPOSED GROUND €



X.13



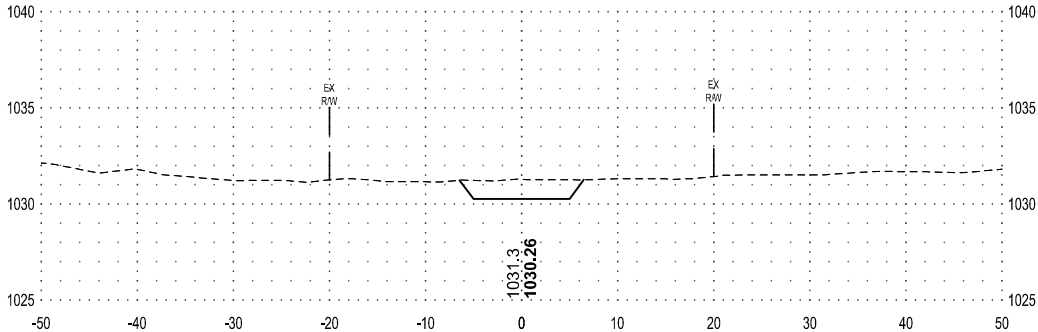
SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

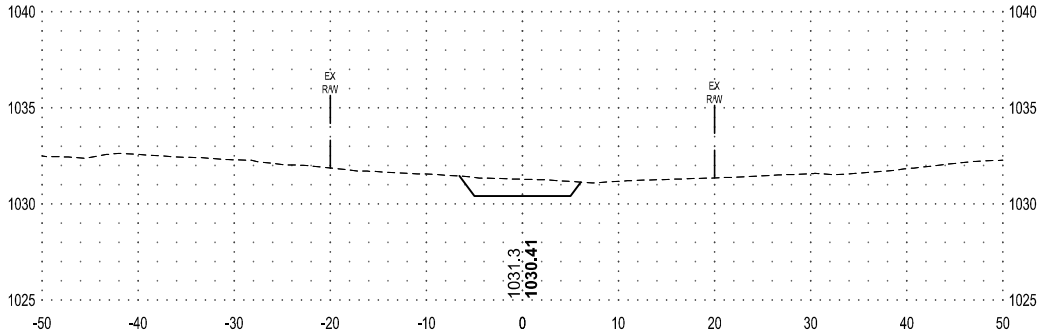
----	EXISTING GROUND
=====	PROPOSED GROUND

XXX.X - EXISTING GROUND E
XXX.XX - PROPOSED GROUND E

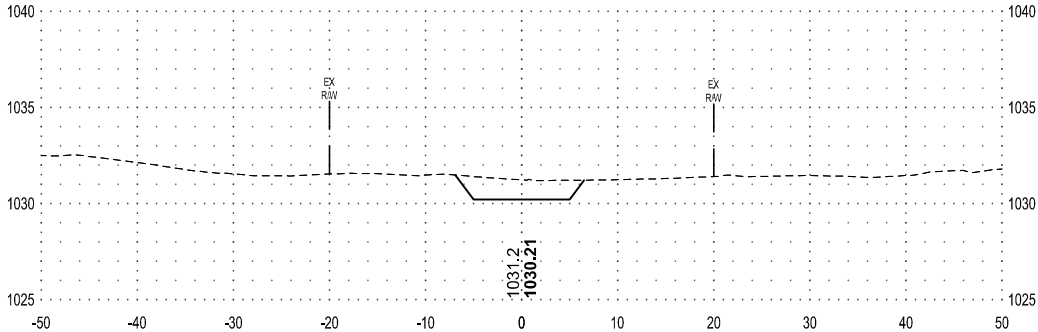
124+00



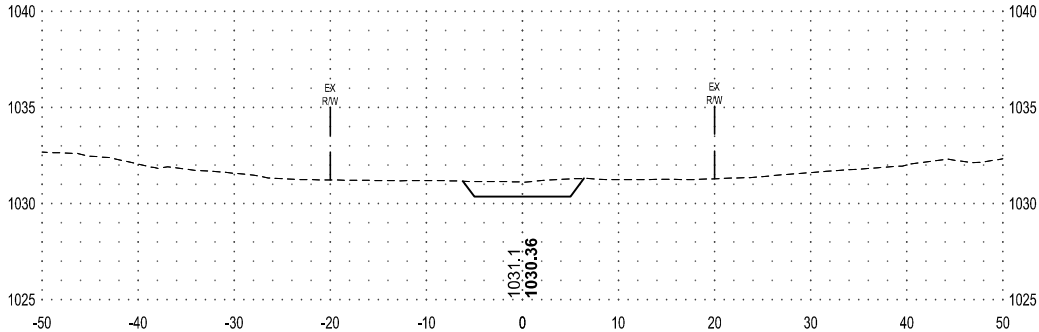
130+00



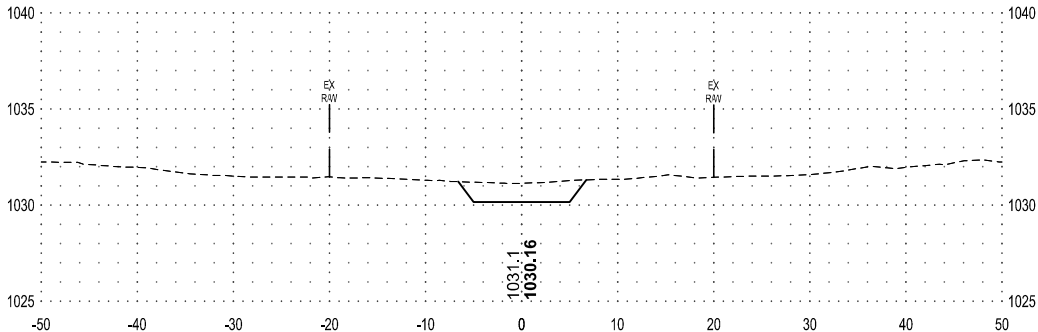
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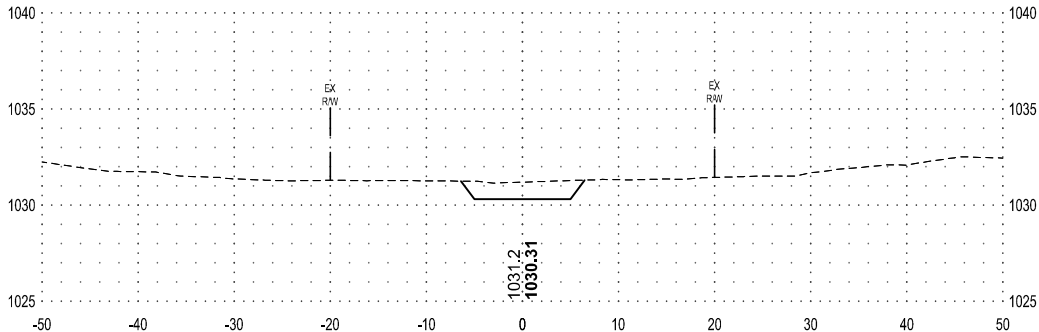
128+00



120+00



126+00



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.14

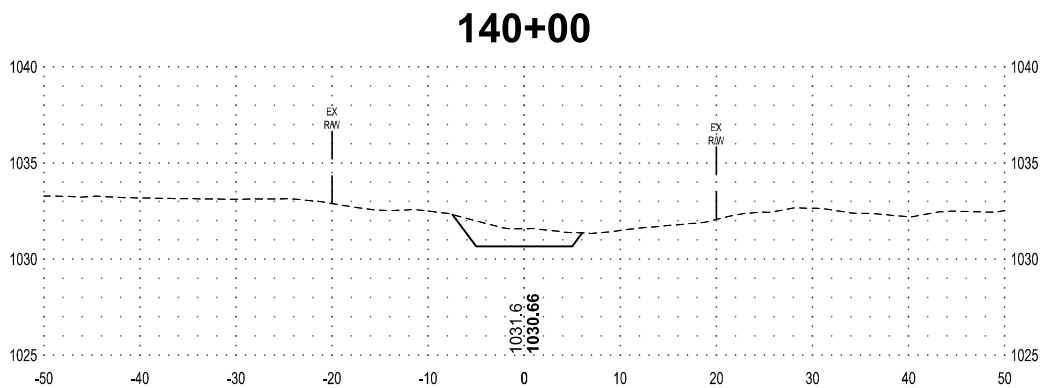
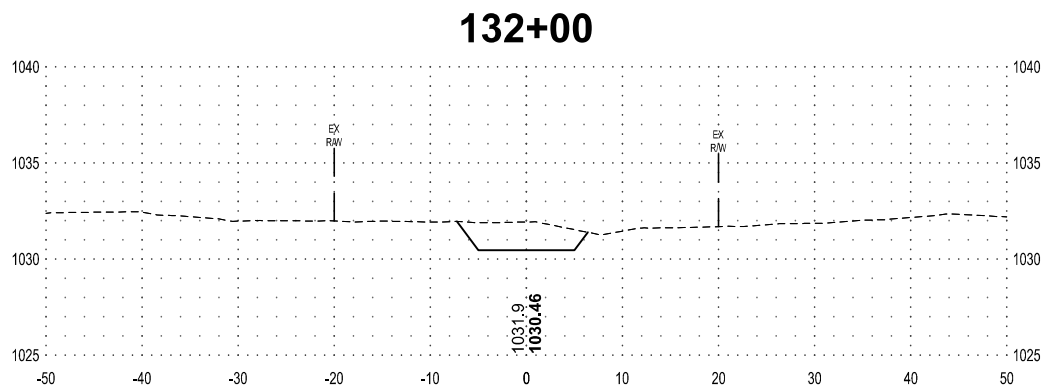
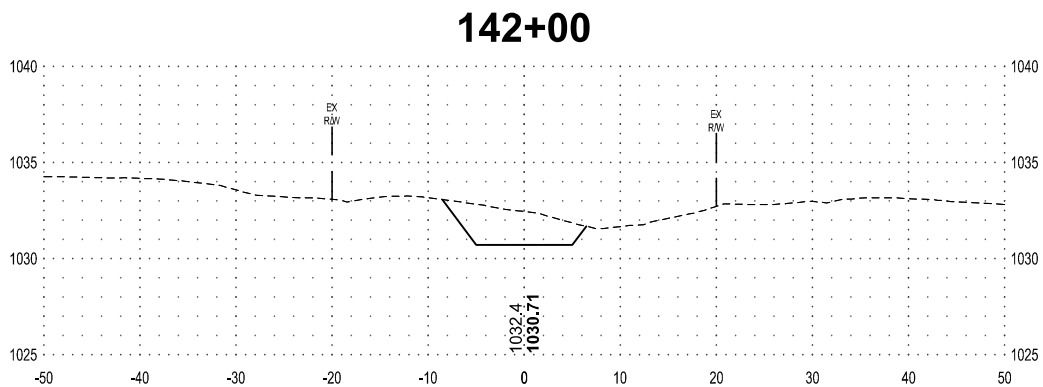
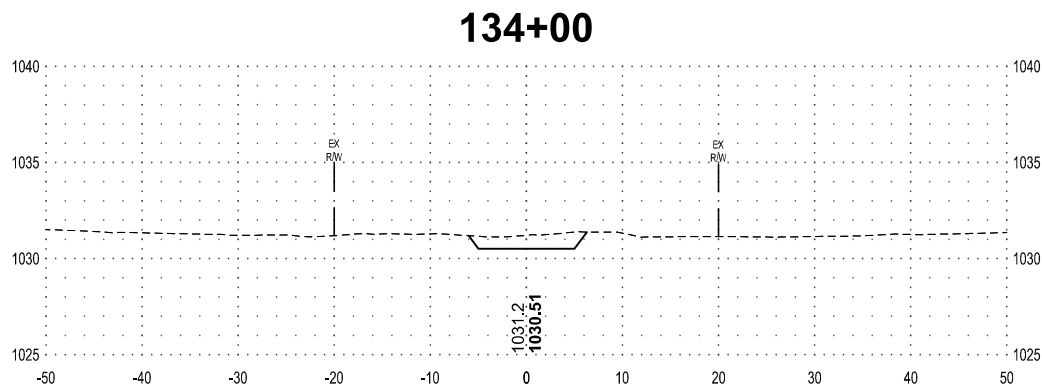
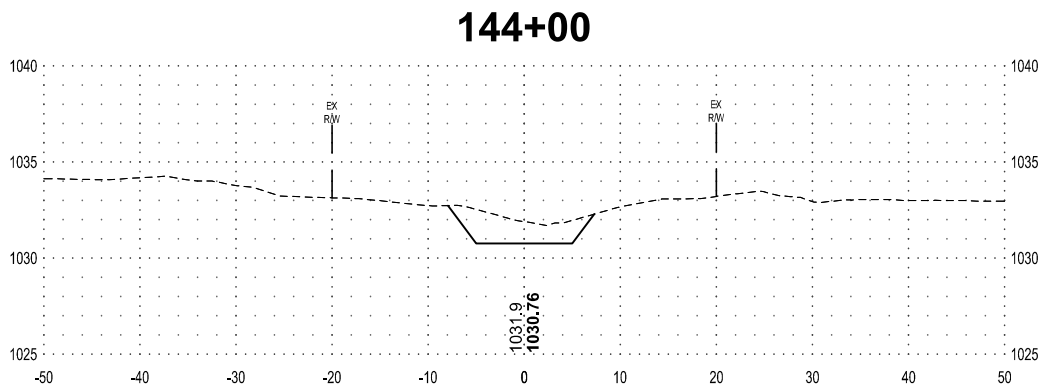
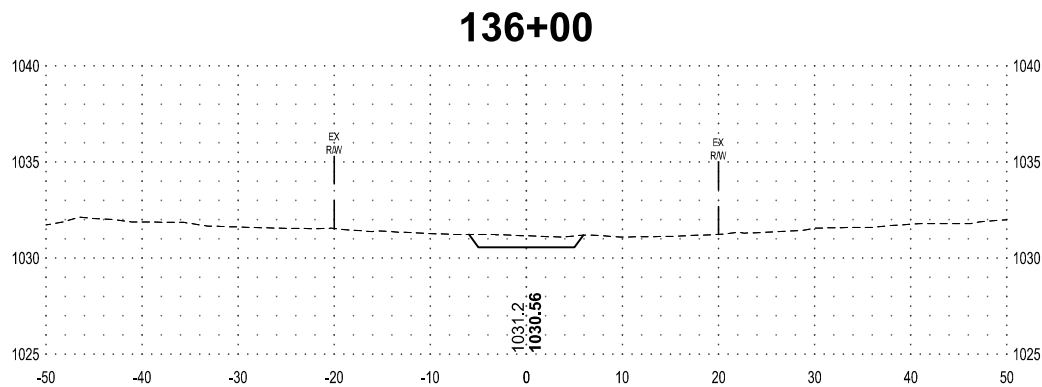
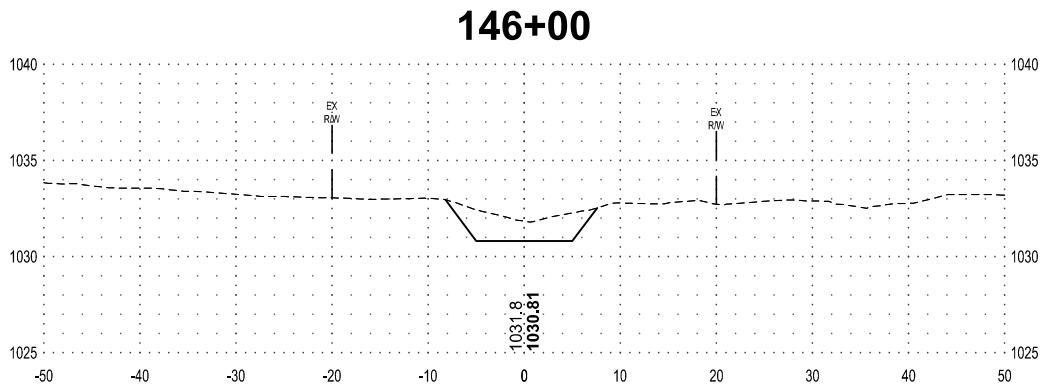
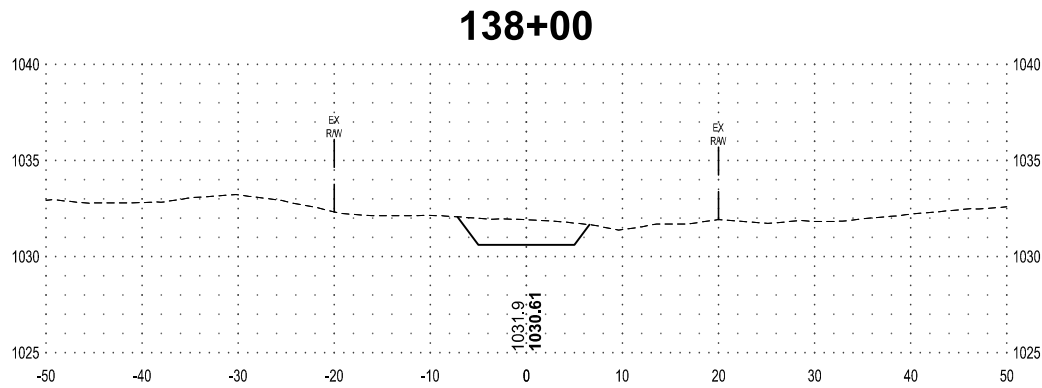
PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND ϕ XXX.XX - PROPOSED GROUND ϕ



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.15

PRELIMINARY NOT FOR CONSTRUCTION

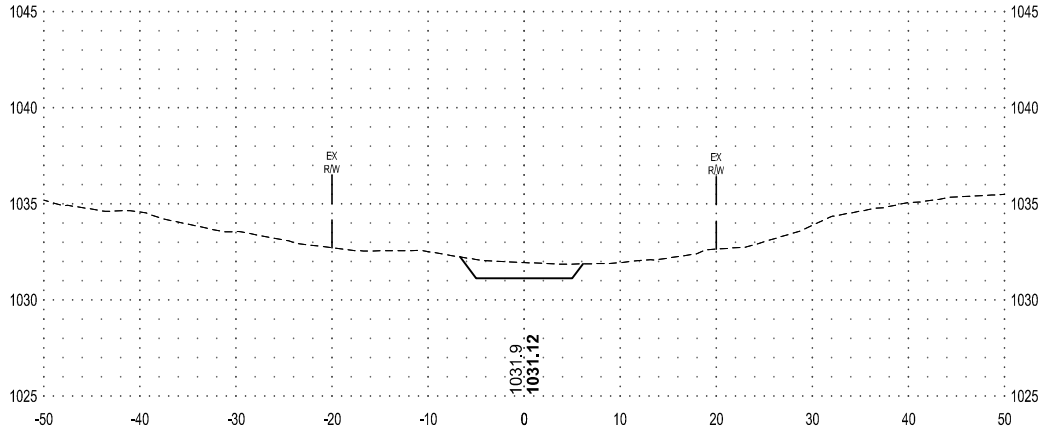


SECTION VIEW LEGEND

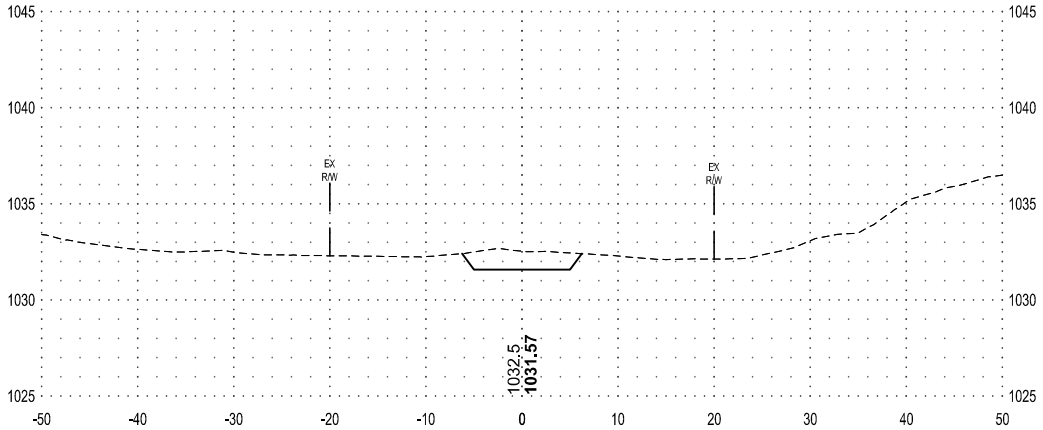
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND @ XXX.XX - PROPOSED GROUND @

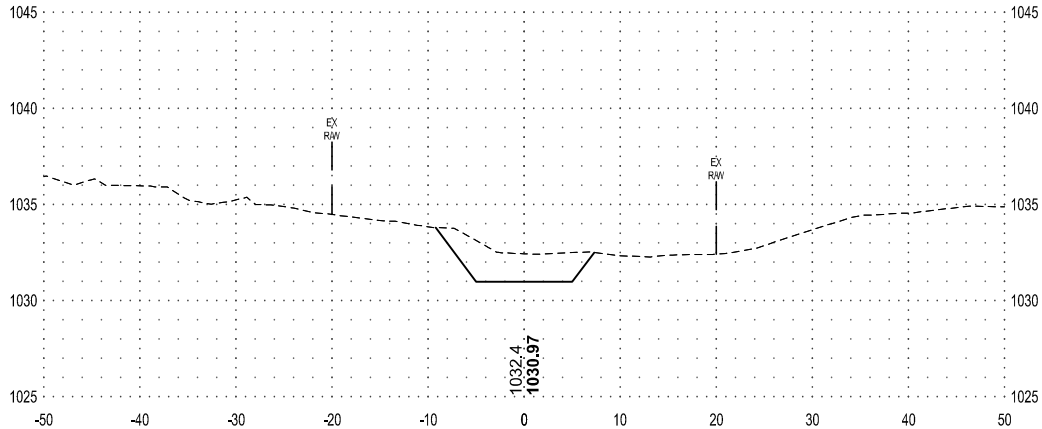
152+00



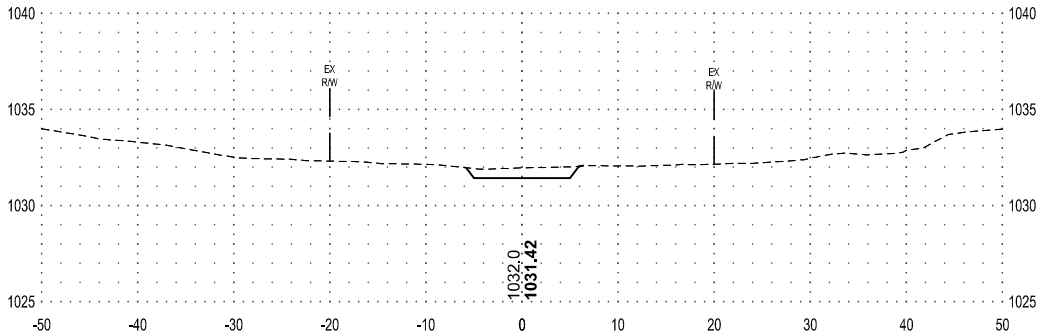
158+00



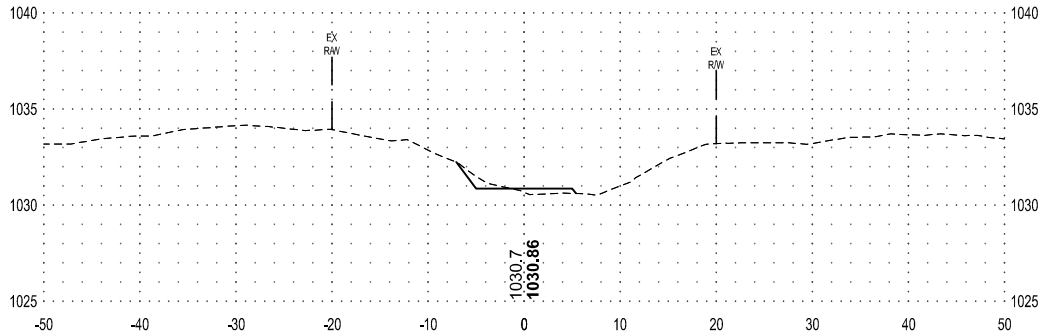
150+00



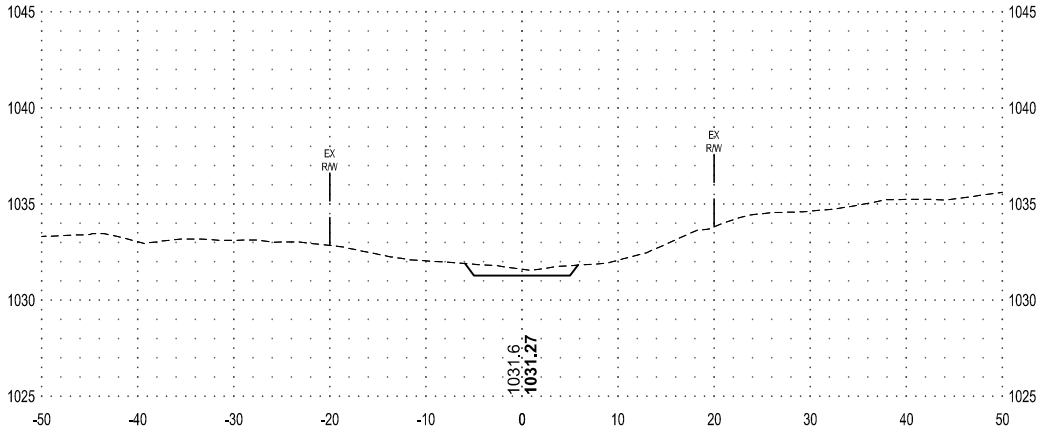
156+00



148+00



154+00



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PROJECT

OLIVER LAKE
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REPAIR

MONONA COUNTY IOWA

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DATE	DESCRIPTION	BY

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FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.16

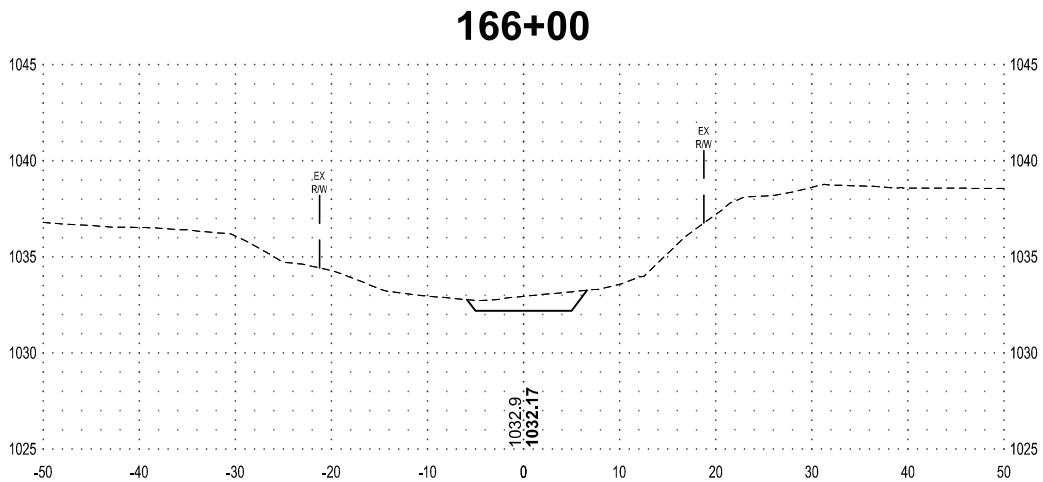
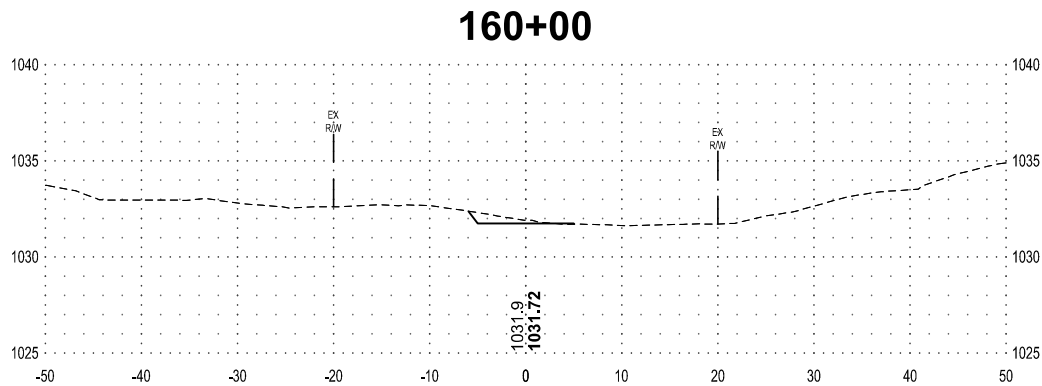
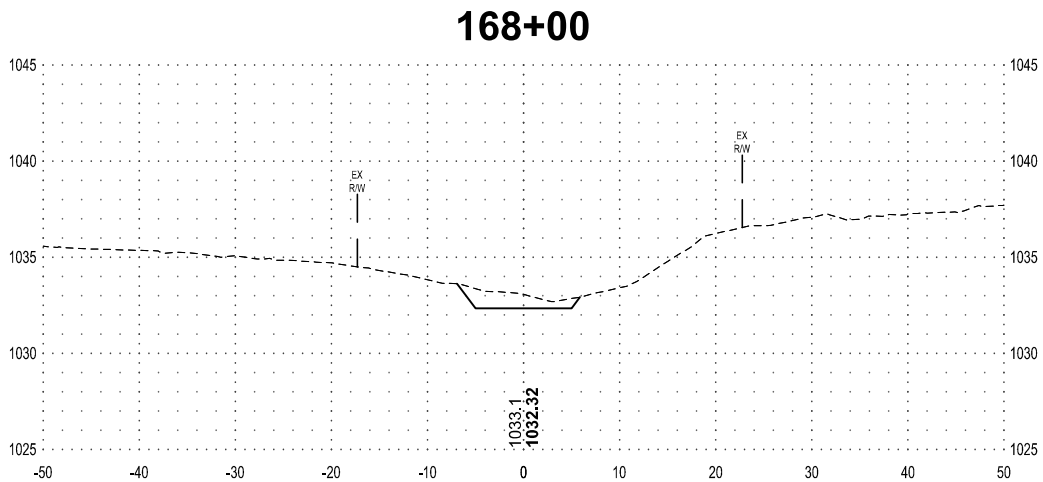
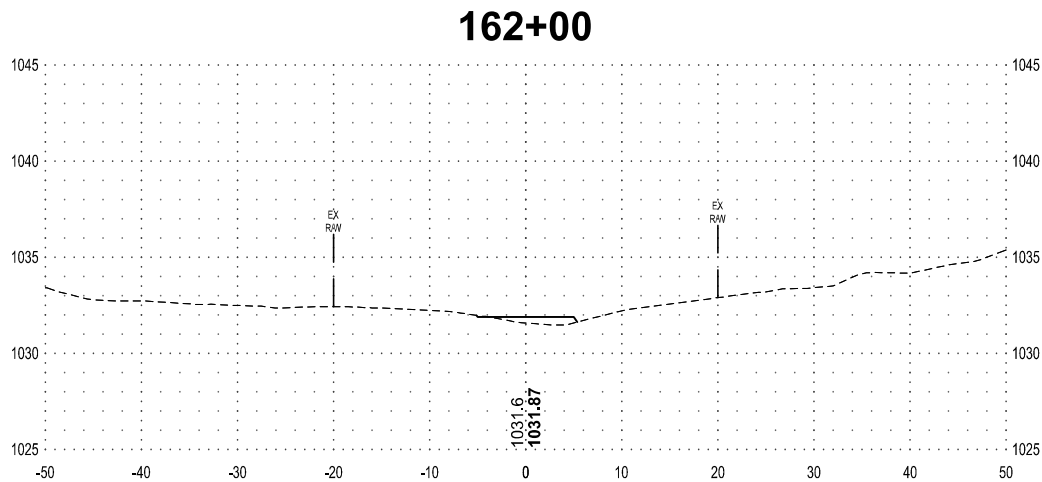
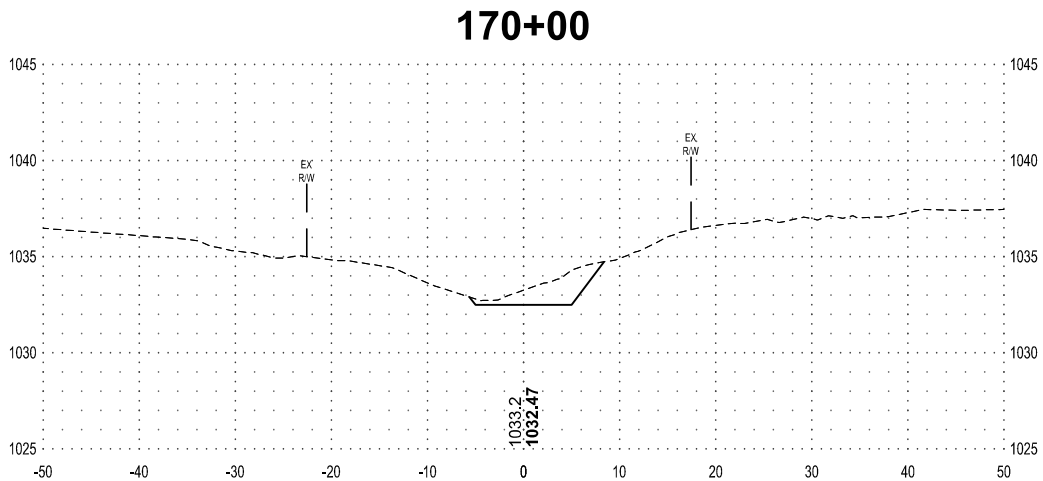
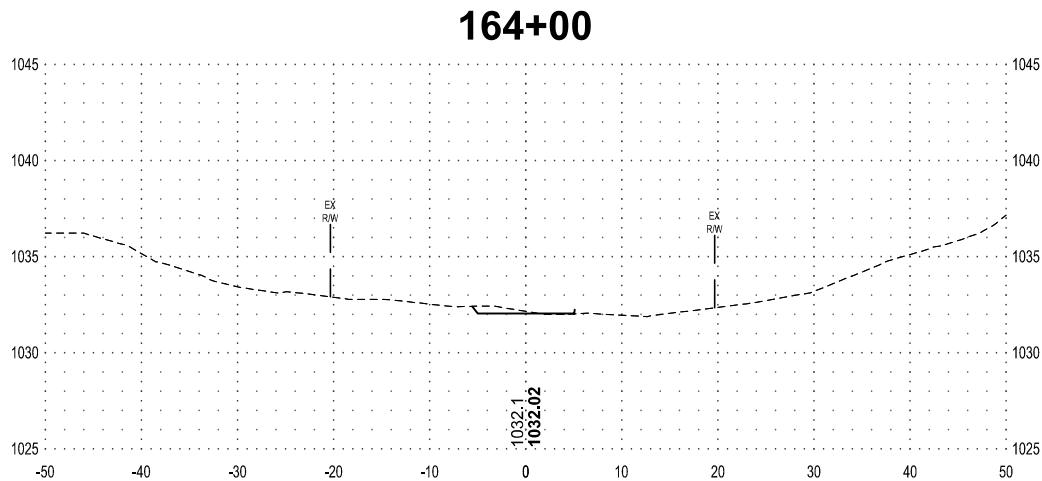
PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND E XXX.XX - PROPOSED GROUND E



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY

IOWA

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PROJECT NO.	24-32018
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ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

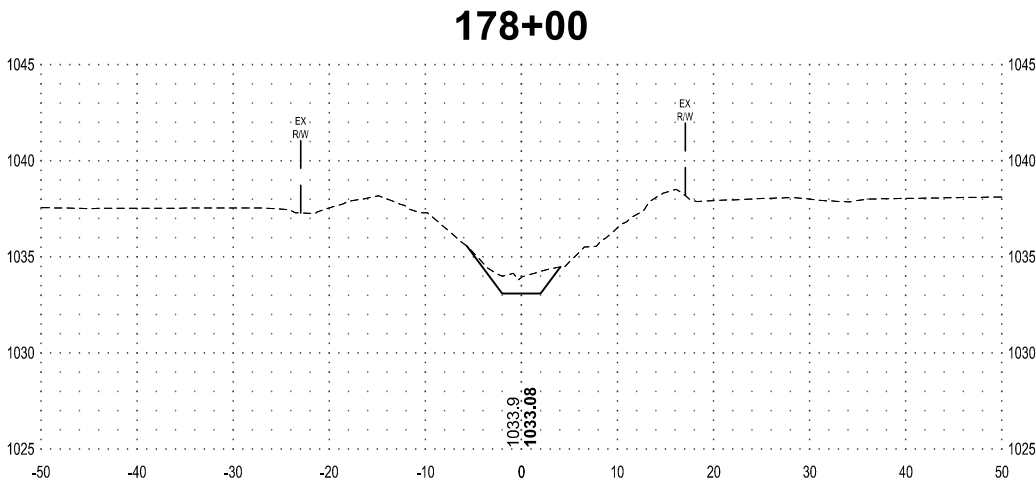
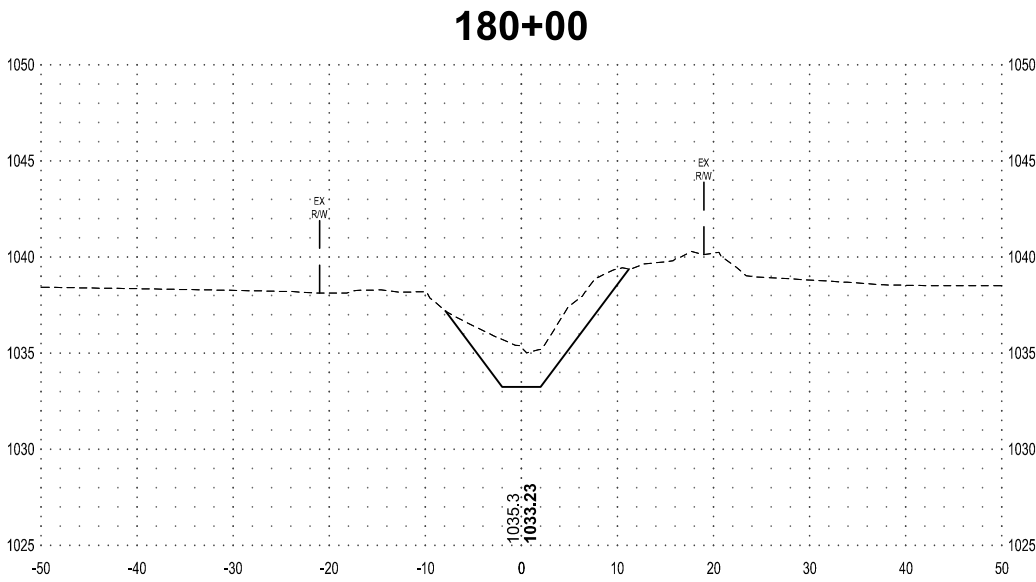
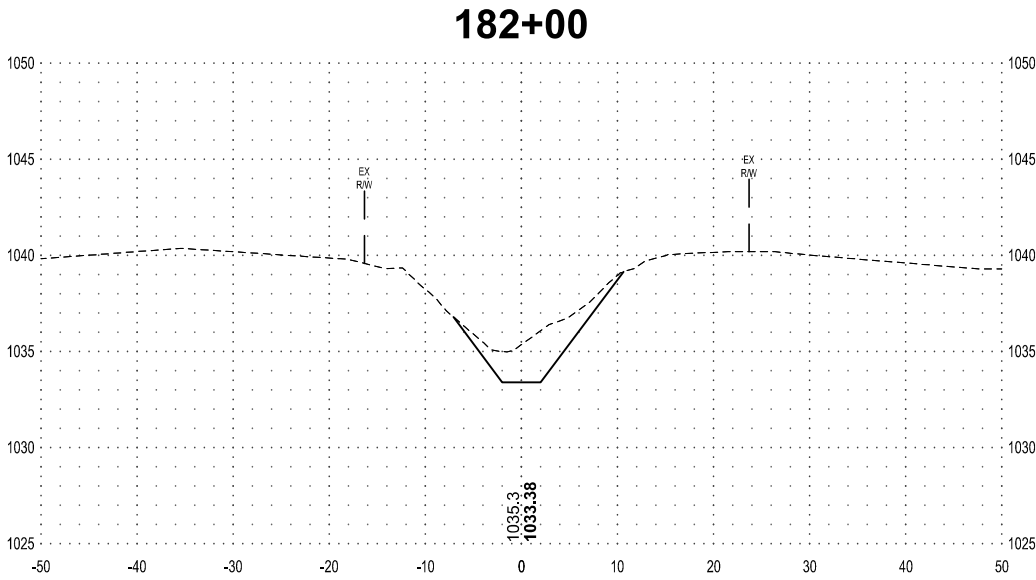
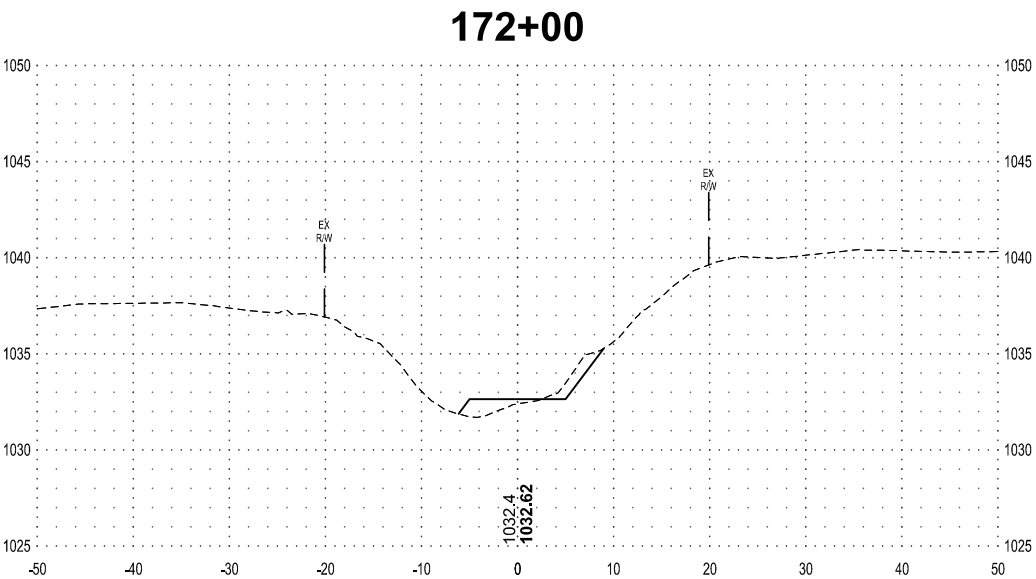
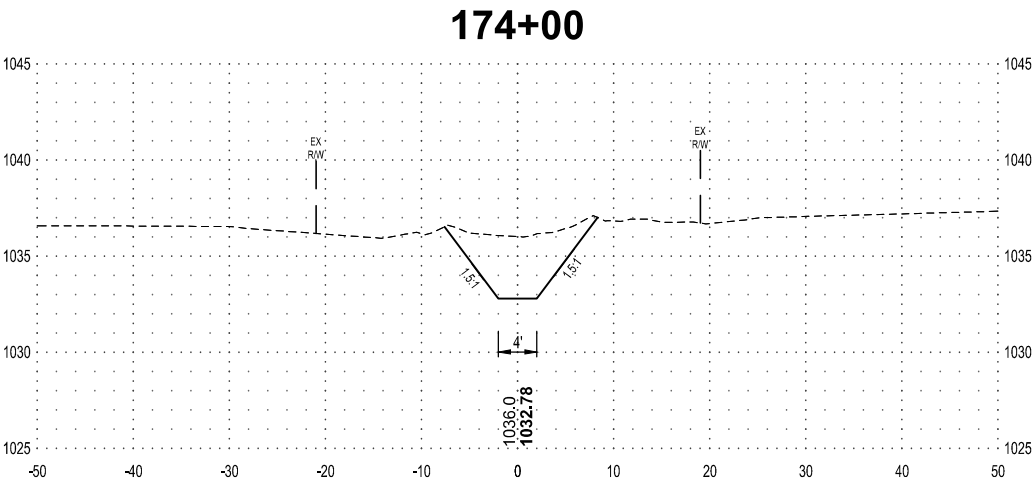
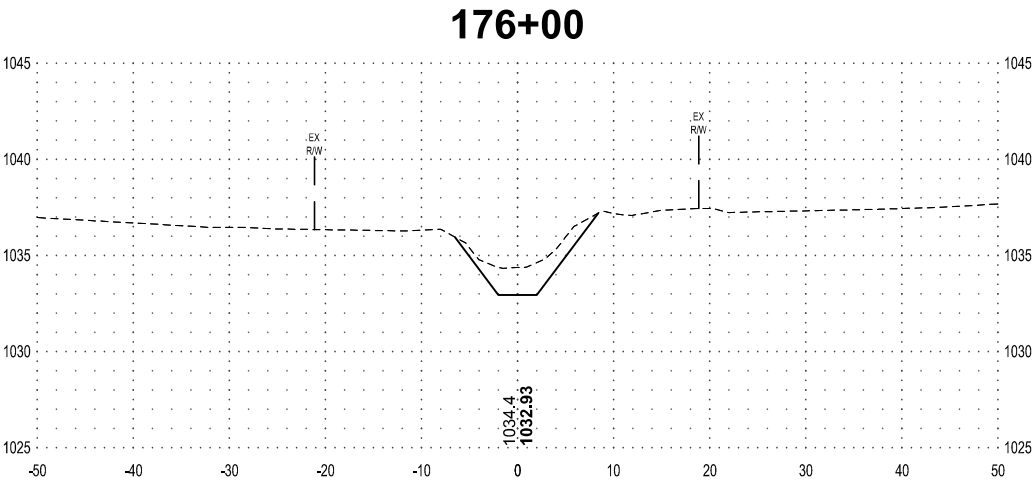
TITLE

SECTIONS

SHEET

X.17

PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
---	EXISTING GROUND
---	PROPOSED GROUND
1000.0 1000.00	XXX.X - EXISTING GROUND E XXX.XX - PROPOSED GROUND E



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PROJECT

OLIVER LAKE
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REPAIR

MONONA COUNTY IOWA

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DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

SHEET

X.18

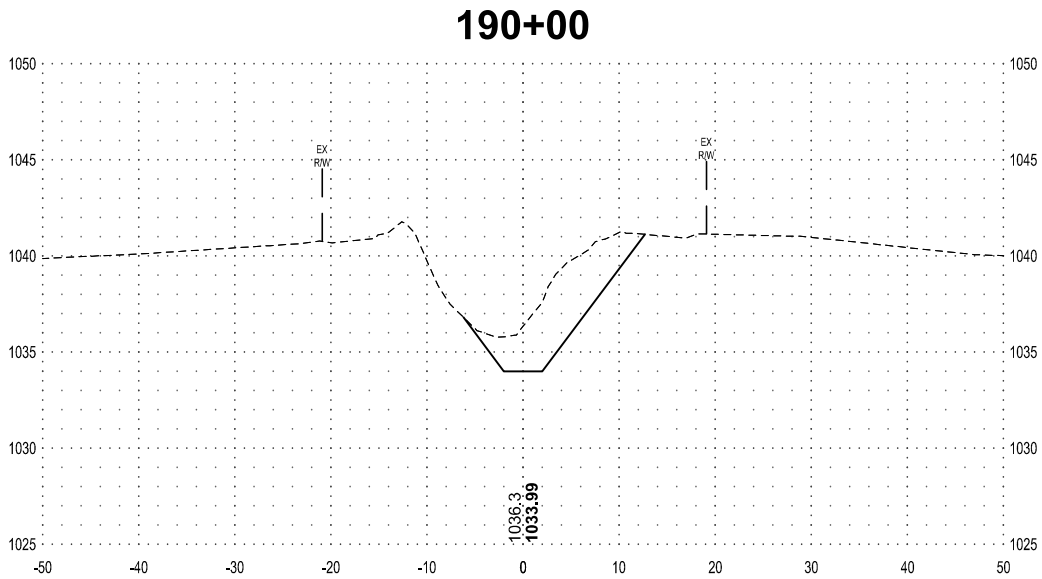
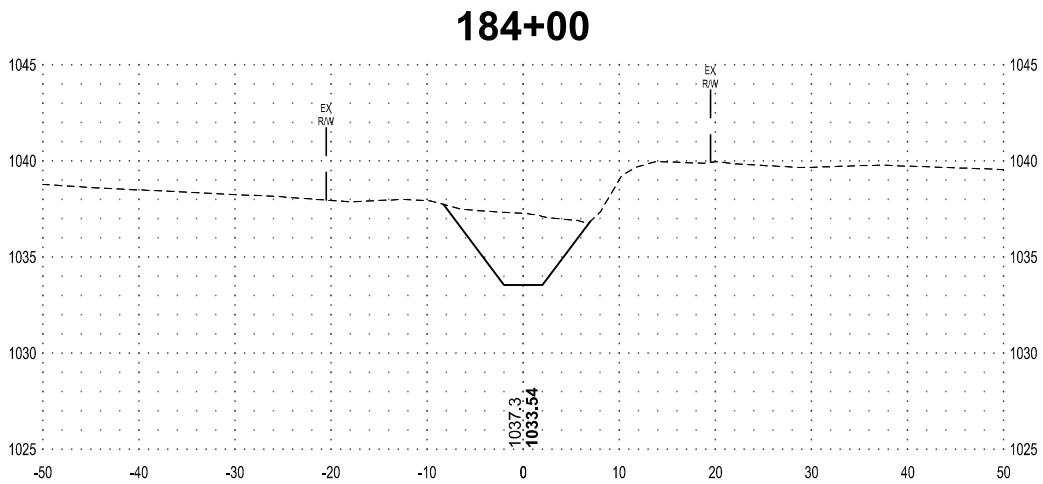
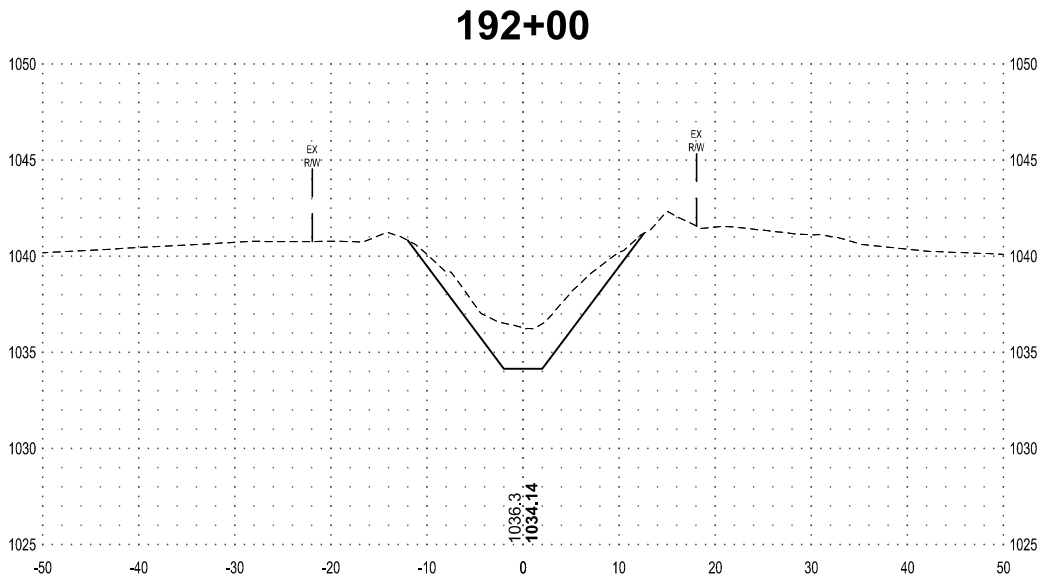
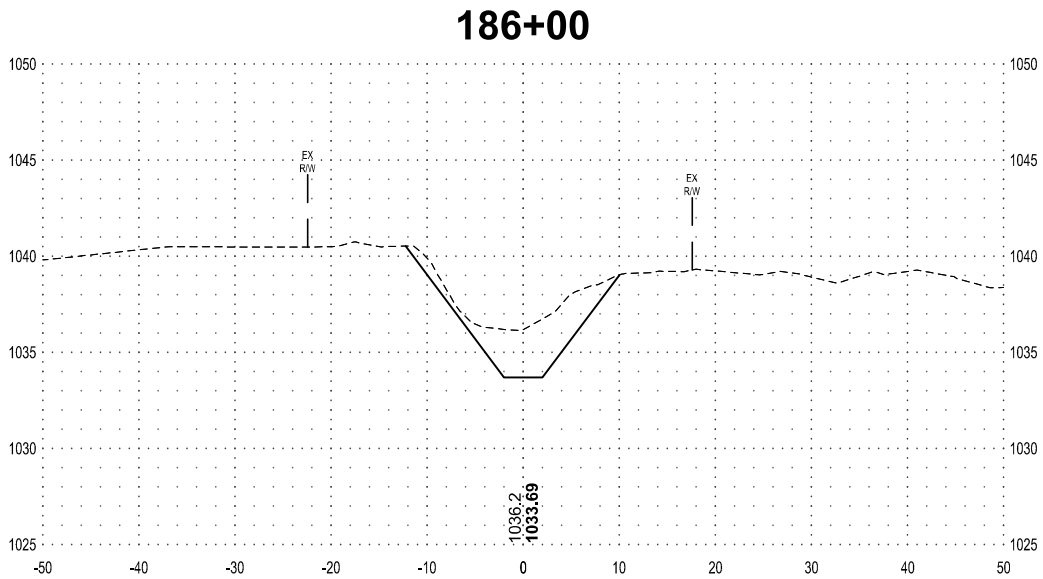
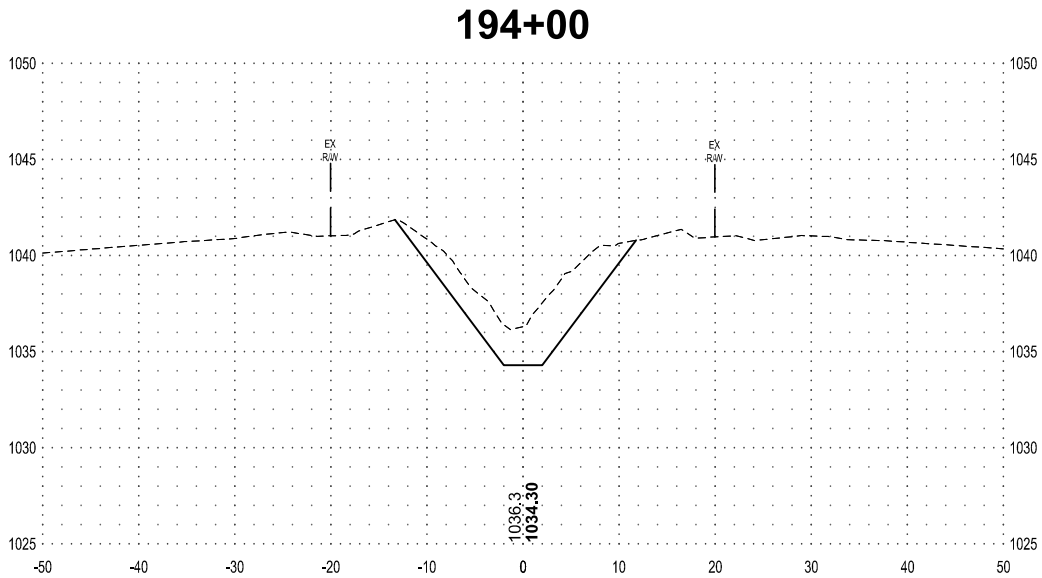
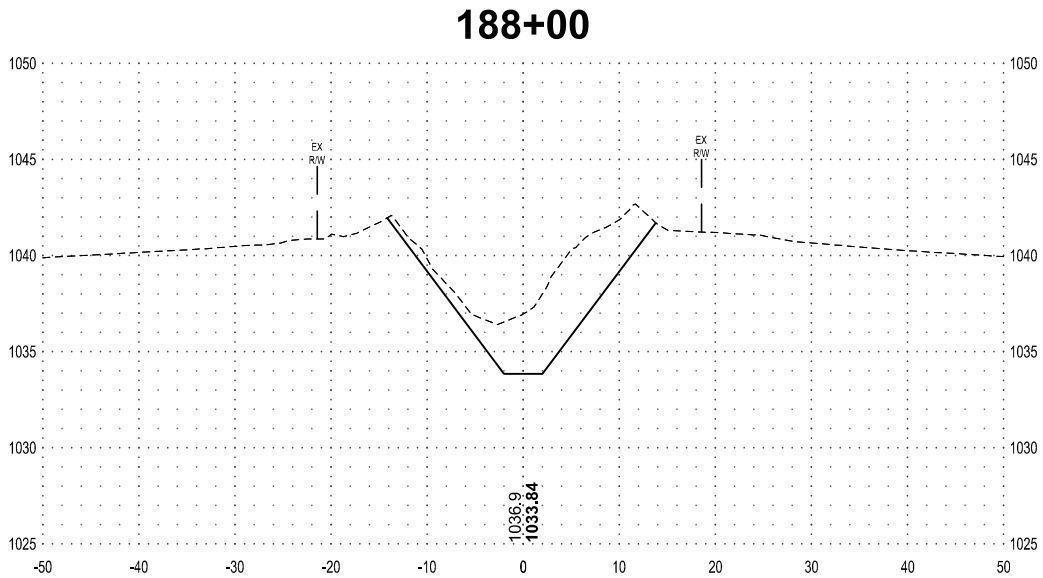
PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND

NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION

----	EXISTING GROUND
=====	PROPOSED GROUND
1000.0	XXX.X - EXISTING GROUND E
1000.00	XXX.XX - PROPOSED GROUND E



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PROJECT

OLIVER LAKE
MAIN OPEN DITCH
REPAIR

MONONA COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	---/---/---
CLIENT PROJECT NO.	-

TITLE

SECTIONS

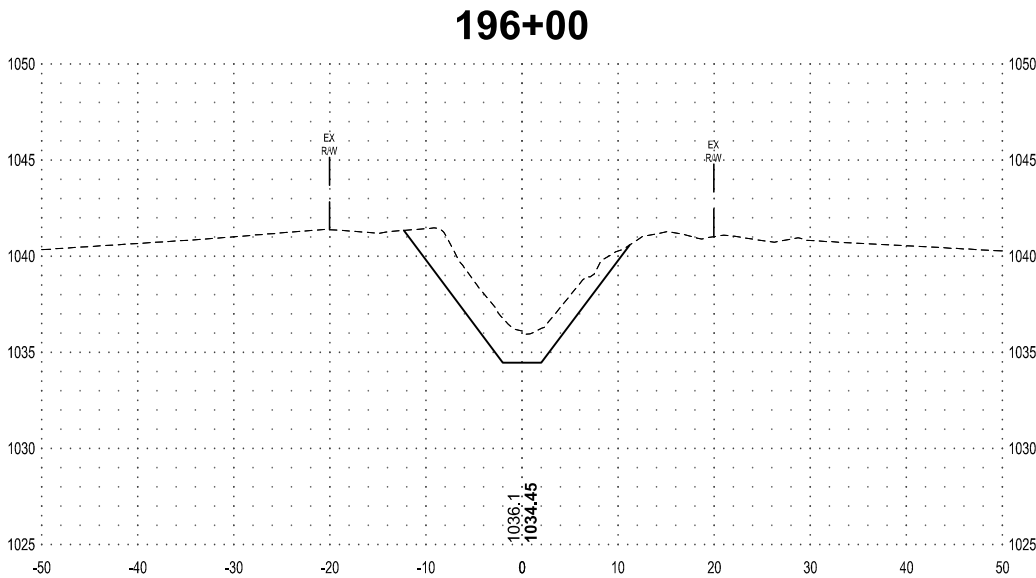
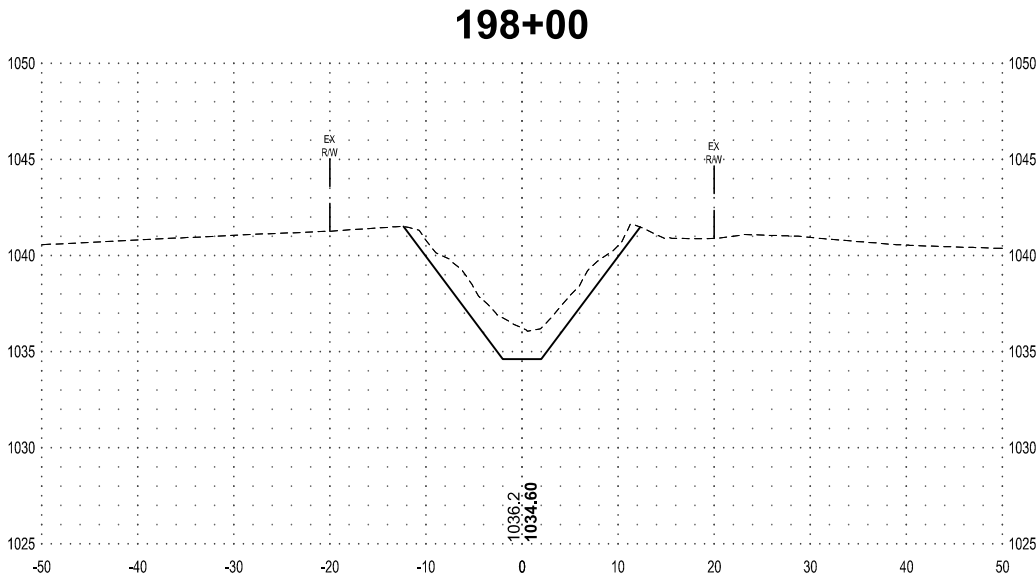
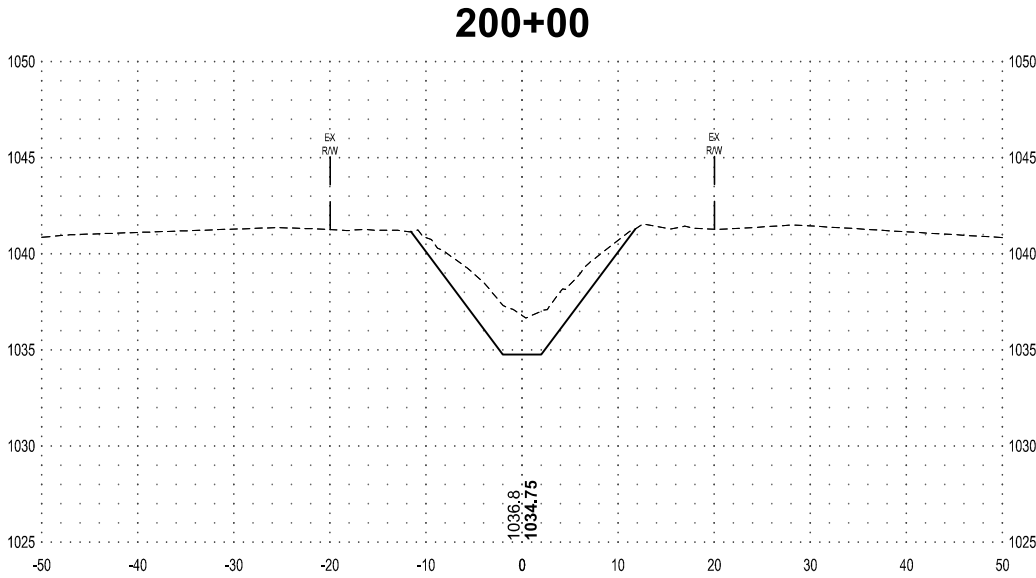
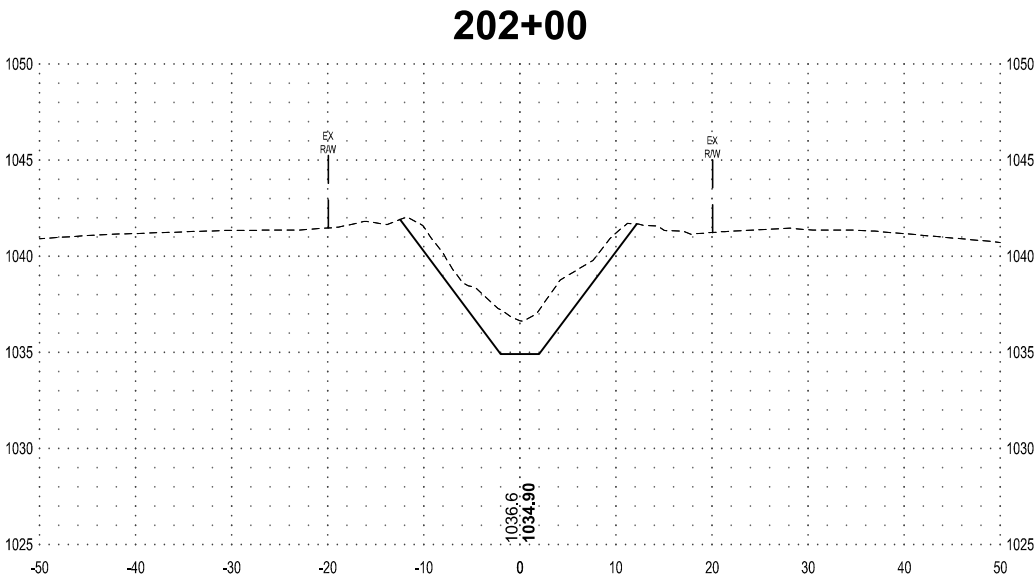
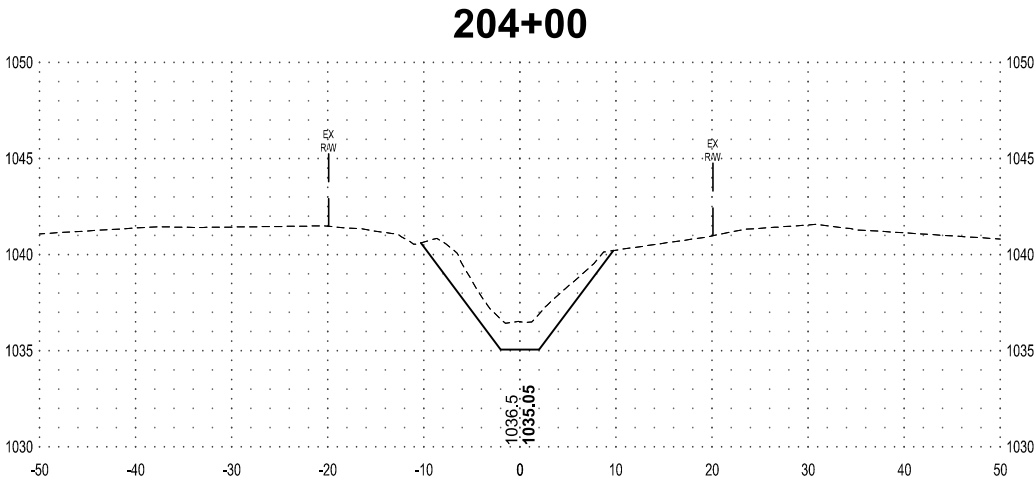
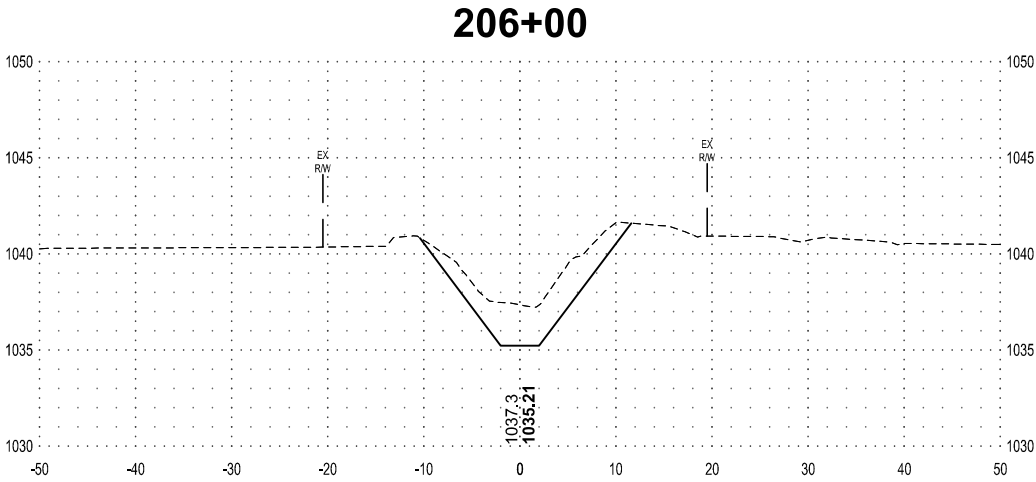
SHEET

X.19

PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
---	EXISTING GROUND
—	PROPOSED GROUND
1000.0 1000.00	XXXX.X - EXISTING GROUND ℓ XXX.XX - PROPOSED GROUND ℓ



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PROJECT	
OLIVER LAKE MAIN OPEN DITCH REPAIR	
MONONA COUNTY	IOWA

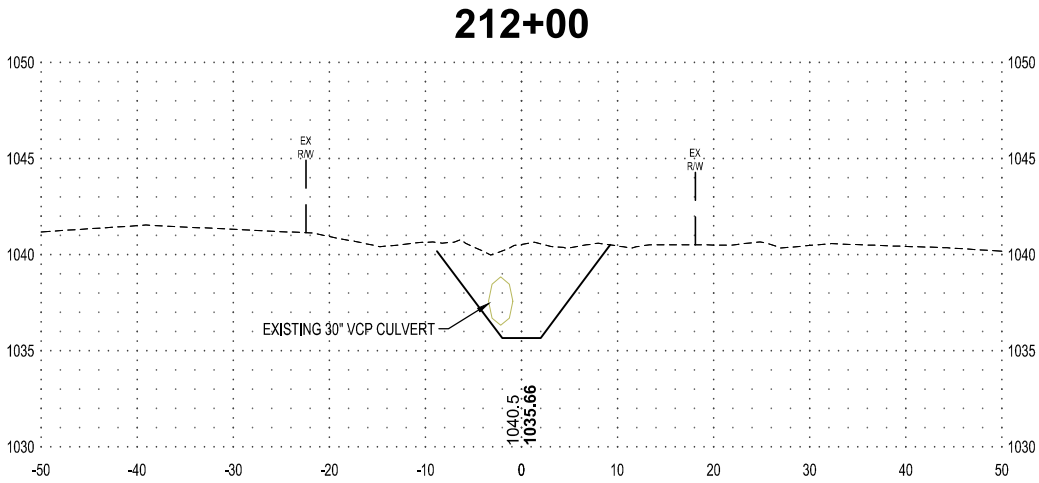
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	4/1/24
CLIENT PROJECT NO.	-

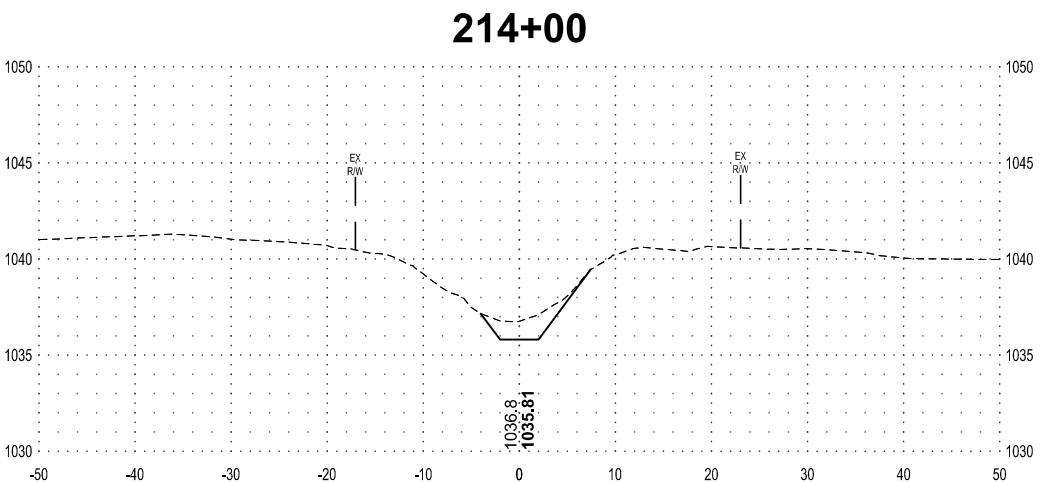
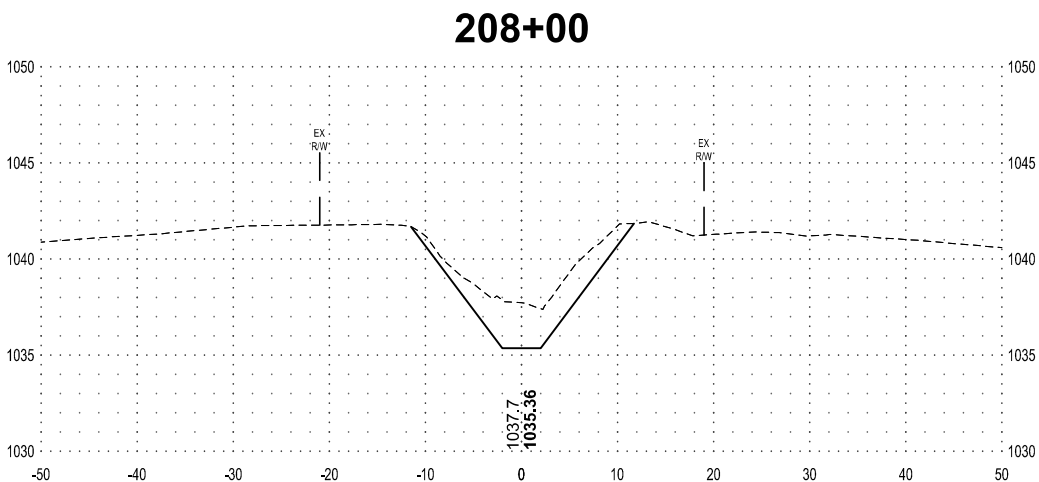
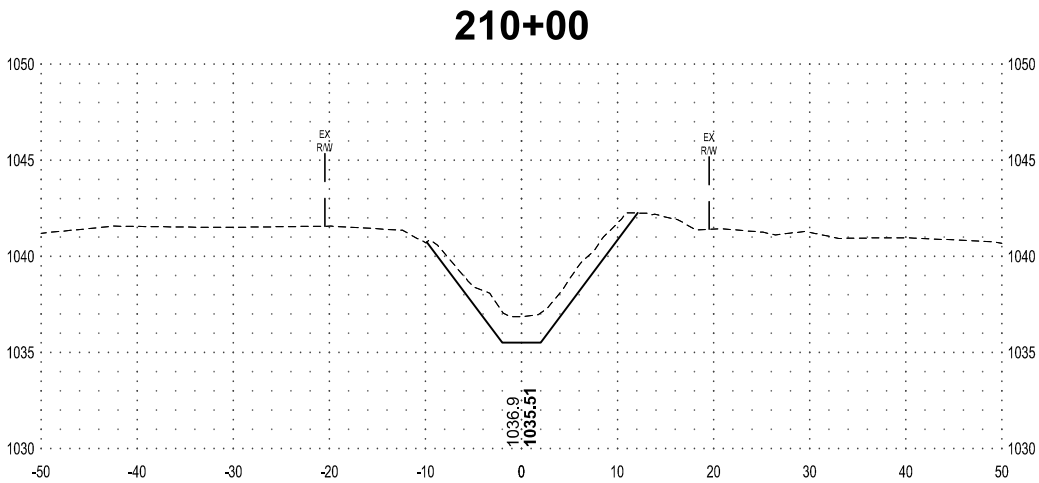
TITLE
SECTIONS

SHEET
X.20

PRELIMINARY NOT FOR CONSTRUCTION



SECTION VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
----	EXISTING GROUND
—	PROPOSED GROUND
1035.0 1000.00	XXX.X - EXISTING GROUND E XXX.XX - PROPOSED GROUND E



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PROJECT	
OLIVER LAKE MAIN OPEN DITCH REPAIR	
MONONA COUNTY	IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	24-32018
FILE NAME	32018-SECTIONS
DRAWN BY	JAT
DESIGNED BY	RAM
REVIEWED BY	CDR
ORIGINAL ISSUE DATE	—/—/—
CLIENT PROJECT NO.	-

TITLE
SECTIONS

SHEET
X.21

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