



IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

Division of Soil Conservation and Water Quality

Cover Sheet

To:	All plan holders	From:	Tracy Bruun, Division
Pages:	34	Phone:	515-344-6279
Re:	Flo971628B Nutrient Reduction Wetland (Bid 26-07)	Date:	August 21, 2026

Comments:	Page
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• Addendum No. 1 with Attachments 1 and 2	2-28
• Pre-Bid Meeting Minutes	29-33
• Pre-Bid meeting attendance list/Updated plan holders list	34
• Electronic files for grading can be obtained by e-mail by contacting Spencer Pech with ISG Inc at 563-920-5758 or spencer.pech@isginc.com .	

- END OF COVER PAGE -

August 21, 2026

Division of Soil Conservation and Water Quality
1305 E Walnut Street
Des Moines, IA 50319

TO: Prospective Bidders

Subject: **Addendum No. 1** to Bid Documents
FLO971628B Nutrient Reduction Wetland Project – Bid No. 26-7
Floyd County, Iowa

This addendum forms a part of the bidding contract documents and modifies the original bidding documents posted July 31, 2026. An updated bidding form, Document CC– Proposal and Schedule of Prices is attached with the addendum acknowledged. This updated bidding form must be used for 26-7 and all bidders must acknowledge this addendum on Page CC-2. **FAILURE TO DO SO WILL SUBJECT BIDDER TO DISQUALIFICATION.**

Description:

DOCUMENT CC– PROPOSAL AND SCHEDULE OF PRICES, 26-7 (See Attachment No.1)

- Please use the updated Document CC, to acknowledge Addendum No. 1 (See Attachment No. 1):

Plans (See Attachment No. 2)

- The location of the proposed construction access has been modified, the location of the antiseep collar has changed and the sheetpile detail has been updated to provide more clarity. Attached are the revised set of Plans.

Sincerely,



Sara Smith, P.E.
Water Resources Bureau

Attachment No. 1 – Updated Document CC
Attachment No. 2 – Revised set of Plans

End of Addendum No. 1

Time and Date for Bid Submissions: 3:00:00 PM, 08/26/2026

BIDDER LOGIN –

<https://solutions.sciquest.com/apps/Router/SupplierLogin?CustOrg=DASlowa>

Time and Date of Bid Opening: 3:00 PM, August 26, 2026

Bid Opening TEAMS: +1 469-998-7627,,352050218#

Project Description and Location: Flo971628B Nutrient Reduction Wetland Project
Section 28, Township 97 North, Range 16 West
Floyd County, Iowa

PROPOSAL AND SCHEDULE OF PRICES

Proposal of

(PRINT Name of Bidder: COMPANY & CONTACT)

Located at _____
(FULL Address)

(_____)
(Telephone Number)

Amount of Proposal Guarantee	Description of Work	Specified Completion Date	Liquidated Damages
10% of Base Bid	All Work Except Seeding	June 15, 2027	\$175.00 Per Day
	Seeding - Buffer	06/30/2027	\$125.00 Per Day
	Seeding – Structure	09/15/2027	
Seeding must be done within the respective seeding period			

The undersigned hereby agrees, if awarded the contract, to execute the proposed contract and to furnish satisfactory Performance Bond in an amount not less than one hundred percent (100%) of the contract award within fourteen (14) days from the date when Notice-of-Award is received, and to provide all supervision, labor, materials, and equipment required to complete the project designated above, for the prices hereinafter set forth, in strict compliance with the Contract Documents prepared by the Division.

Further, the parties agree and acknowledge as follows:

- The amount of loss or damages likely to be incurred by Division are uncertain and said loss is incapable or very difficult to quantify and estimate;
- The amount specified for liquidated damages herein bear a reasonable relationship to, and are not plainly or grossly disproportionate to, the probable loss likely to be incurred by Division in connection with any delay on part of the Contractor;
- The amount of liquidated damages fixed herein bears a reasonable relationship to Division's anticipated losses and/or actual losses;
- The amount of liquidated damages herein fairly approximates Division's loss at the time of making of this Agreement;

- The amount of liquidated damages fixed herein are fair and reasonable and it approximates to the extent possible the actual loss to Division as a result of any delay on the part of Contractor; and
- Division and Contractor are sophisticated parties and negotiated this Agreement at arm's length.

Now therefore, in consideration of the mutual obligations set forth herein, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

- Contractor will commence the work after the Preconstruction Conference and by the Construction Start Date approved by Division in the Construction Progress Schedule.
- Contractor will complete the work within the specified time period identified in the contract, or as amended, or be responsible for liquidated damages per day as set forth in the above table.
- The liquidated damages may be withheld from payments made to the Contractor by the Division upon written notice that liquidated damages have begun to accrue, and such damages are in addition to other remedies available as provided for in this contract and applicable law.

A Proposal Guarantee in the amount stipulated herein is included with this proposal, to be forfeited to the Division, if the undersigned fails or refuses to execute the contract and furnish satisfactory Performance Bond, if awarded the contract.

By _____
(Signed)

(PRINT NAME)

(Title) (Date)

In executing this proposal, Bidder acknowledges receipt of Addendum Number 1 dated 08/21/26

In executing this proposal, Bidder acknowledges receipt of Addendum Number _____ dated _____

In executing this proposal, Bidder acknowledges receipt of Addendum Number _____ dated _____

THE FOLLOWING AFFIDAVIT MUST BE COMPLETED AND NOTARIZED, OR THIS BID WILL BE REJECTED

AFFIDAVIT

The signatory, being duly sworn, does depose and say that the undersigned is an authorized representative of:

(Name of Firm)

Located at _____

hereinafter referred to as “Bidder” and does hereby affirm to have personal knowledge that said Bidder has thoroughly examined the Contract Documents, carefully prepared the Proposal and Schedule of Prices form, and has checked the same in detail before submitting; and that said Bidder, or the agents, officers, or employees thereof, have not, either directly or indirectly, entered into any agreement, participated in any collusion or fraud, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

(Signed)

(PRINT name)

Subscribed and sworn to before me this _____ day
of _____, 20____

(Signed, Notary)

My Commission Expires _____, 20____

Must include notary stamp

SCHEDULE OF PRICES

Flo971628B Project
 Section 28, Township 97 North, Range 16 West, Floyd County, Iowa

Contract No. 26-07

Name of Bidder:

IMPACS LI #	ISG LI #	SUB- ITEM	DESCRIPTION	SPECIFIC- ATION NO.	EST QTY	UNIT	Unit Price	Unit Price
1.1	1	-	Mobilization & Demobilization	CS-008	1	LS		
1.2	2	-	Site Stripping & Preparation	IA-CS-001	1	LS		
	3	-	Crop Damage	IA-CS-001	0	AC		
1.3	4	-	Silt Fence	IA-CS-005	430	LF		
1.4	5	-	Straw Wattle	IA-CS-005	175	LF		
1.5	6	-	Buffer Seeding	IA-CS-006	6.4	AC		
1.6	7	-	Structure Seeding	IA-CS-006	0.7*	AC		
1.7	8	-	Drain Tile Investigation	IA-CS-009	5	HR		
1.8	9	-	Drain Tile Removal	IA-CS-009	200	LF		
1.9	10	-	Steel Sheet Piling	IA-CS-013	1202	SF		
1.10	11	-	Excavation (General)	IA-CS-021	3535	CY		
1.11	12	-	Excavation (Core Trench)	IA-CS-021	320	CY		
1.12	13	-	Earthfill (Submerged Berms)	IA-CS-023	203	CY		
1.13	14	-	Earthfill (General Dam & Core)	IA-CS-023	2299	CY		
1.14	15	-	Earthfill (General Stockpiling & Wasting)	IA-CS-023	807	CY		
1.15	16	-	Topsoil Placement	IA-CS-026	3619	CY		
	17	-	Corrugated Polyethylene Tubing (Non-perforated):					
1.16		A	8-inch	IA-CS-046	1672	LF		
	18	-	Corrugated Polyethylene Tubing (Perforated):					
1.17		A	4-inch (Toe-Drain)	IA-CS-046	256	LF		
	19	-	Corrugated profile Wall (Dual Wall) Polyethylene Pipe					
1.18		A	12-inch	IA-CS-046	49	LF		
	20	-	Drain Tile Connections					
1.19		A	6-inch	IA-CS-046	5	EA		
1.20		B	4-inch	IA-CS-046	22	EA		
1.21	21	-	Stoplog Storage Structure	IA-CS-046	1	EA		
1.22	22	-	Water Control Structure Assembly	IA-CS-051	1	EA		
1.23	23	-	12-inch Tile Outlet	IA-CS-051	4	EA		
1.24	24	-	Riprap, Class E	IA-CS-061	437	TON		
1.25	25	-	Granular Foundation Material	IA-CS-061	44.5	TON		
1.26	26	-	Road Access Driveway	IA-CS-061	1	EA		
1.27	27	-	Concrete Grout	IA-CS-062	87	CY		

*IMPACS will not accept an amount less than 1. Enter a unit price for 1 unit, and the bid tabulation will be adjusted based on the engineer's estimated quantity.

TOTAL BASE BID.....\$_____

Worksheet purposes only. Bids will only be accepted through the on-line Iowa Management of Procurement & Contracts System (IMPACS). To register and learn about IMPACS, go to: <https://solutions.scquest.com/apps/Router/SupplierLogin?CustOrg=DASIowa>

END OF DOCUMENT CC

Attachment No. 2
Revised set of Plans

IDALS FLO971628B

NUTRIENT REDUCTION WQI WETLAND

FLOYD COUNTY, IOWA

CONSTRUCTION PLANS

ISG PROJECT # 23-30398



IOWA DEPARTMENT OF
AGRICULTURE &
LAND STEWARDSHIP



1-800-292-8989
www.iowaonecall.com

SHEET NOT VALID UNLESS THIS TEXT IS COLOR.

THIS DOCUMENT IS THE PROPERTY OF I & S GROUP, INC. AND MAY NOT BE USED, COPIED OR DUPLICATED WITHOUT PRIOR WRITTEN CONSENT.

PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30398
FILE NAME	30398-TITLE
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/24
CLIENT PROJECT NO.	-

TITLE

TITLE

SHEET

C0-10

LEGEND

EXISTING	
	WATERSHED BOUNDARY
	CITY LIMITS
	SECTION LINE
	QUARTER SECTION LINE
	RIGHT OF WAY LINE
	PROPERTY / LOTLINE
	EASEMENT LINE
	ACCESS CONTROL
	WATER EDGE
	WETLAND BOUNDARY
	FENCE LINE
	EXISTING OPEN DITCH
	CULVERT
	TILE
	PRIVATE TILE
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND TV
	OVERHEAD UTILITY
	UNDERGROUND UTILITY
	UNDERGROUND FIBER OPTIC
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	DECIDUOUS TREE
	CONIFEROUS TREE
	TREE LINE
	DROP INTAKE
	HYDRANT
	POWER POLE

PROPOSED	
	EASEMENT
	PROPOSED OPEN DITCH
	OPEN DITCH REPAIR
	CULVERT (RCP)
	CULVERT (CMP)
	CULVERT (HDPE)
	TILE
	TILE (PIPE WIDTH)
	PRIVATE TILE
	WATER
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TV
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	DROP INTAKE
	SLOUGH REPAIR
	SPOIL PLACEMENT
	TREE CLEARING
	REMOVE TREE
	BUFFER



LOCATION MAP

IA NRCS JOB CLASS IV

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, BELIEF, THE PLANS MEET APPLICABLE NRCS STANDARDS.

ENGINEER'S SIGNATURE DATE

CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL

ONE CALL TICKET NO.

I HAVE REVIEWED AND AGREE WITH THE CONTENTS OF THE PLAN AND SPECIFICATIONS AS PREPARED.

LANDOWNER SIGNATURE DATE

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, WORK WILL STOP IMMEDIATELY AND THE LOCAL NRCS FIELD OFFICE WILL BE NOTIFIED.

I CERTIFY THAT THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONTRACTORS SIGNATURE DATE

ENGINEER'S REP. SIGNATURE DATE

SHEET INDEX

C0-10	TITLE	C3-31	SOUTH TILE INTERCEPT PROFILE
C0-20	CONSTRUCTION NOTES	C3-32	NORTH TILE INTERCEPT PROFILE
C0-21	ESTIMATE REFERENCE	C3-33	NORTH TILE INTERCEPT PROFILE
C0-22	DETAILS	C3-34	ALTERNATIVE OUTLET PROFILE
C0-23	DETAILS	C4-10	OVERALL GRADING PLAN
C0-24	DETAILS	C4-21	FOREBAY DETAILED GRADING
C0-25	DETAILS	C4-22	BERM PROFILE
C0-26	DETAILS	C4-23	POOL CROSS SECTION
C0-27	SHEET PILE STRUCTURE	C5-10	SITE RESTORATION PLAN
C2-10	EXISTING SITE & REMOVAL PLAN		
C3-10	SITE PLAN		
C3-30	SOUTH TILE INTERCEPT PROFILE		

SEAL	I hereby certify that this engineering document was prepared by me or under direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
	03-26-25
(signature)	(date)
Printed or typed name	SPENCER D. PECH
License number	28161
My license renewal date is	December 31, 2026
Pages or sheets covered by this seal:	
ALL SHEETS	

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:

**PROJECT
ADDRESS / LOCATION:**

**OCEAN AVE
FLOYD, IA 50435**

SECTION 28, T97N, R16W

**CEDAR TWP
FLOYD COUNTY, IOWA**

MANAGING OFFICE:



**WATERLOO OFFICE
335 CEDAR STREET
SUITE 200
WATERLOO, IA 50701
PHONE: 319.234.1515**

**PROJECT MANAGER: SPENCER PECH
EMAIL: SPENCER.PECH@ISGINC.COM**

SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH FLOYD COUNTY'S REQUIREMENTS AND WITH THE 2023 EDITION OF THE NATURAL RESOURCES CONSERVATION SERVICE PRACTICE 656 (CONSTRUCTED WETLAND), UNLESS DIRECTED OTHERWISE.

PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), ZONE 2, ON THE IOWA REGIONAL 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=1087.60

**TIE IN EAST SIDE OF POWERPOLE
NORTHING: 9809811.97
EASTING: 12499354.21**

TOPOGRAPHIC SURVEY

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

WETLAND CONSTRUCTION NOTES

1.

RIPRAP IS TO BE CLASS E REVETMENT STONE AS DEFINED BY SECTION 4130 OF THE CURRENT IDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND SCREENED OVER AN 8" GRIZZLY SEPARATOR. TAKE CARE TO NOT DAMAGE EXPOSED PVC PIPING WHEN PLACING RIPRAP, WHERE APPLICABLE.
2.

STRIPPING - ALL EXCAVATIONS AND FILL AREAS ARE TO BE STRIPPED OF TWELVE (12) INCHES OF TOPSOIL (UNLESS OTHERWISE DIRECTED BY PLAN NOTE) TO REMOVE VEGETATION.
3.

POOL GRADING AREAS INVOLVE EXCAVATION OF THE DESIGNATED AREAS SHOWN TO THE ELEVATION ON THE PLAN. WASTE SPOIL IN DESIGNATED AREAS OR AS DIRECTED BY ENGINEER. AREAS RECEIVING WASTE SOILS SHALL BE SHAPED TO DRAIN TOWARD POOL AREA. POOL GRADING SPOIL MUST BE LOCATED AT DESIGNATED LOCATION AS SHOWN ON SHEET C4-10.
4.

TOPSOIL - ALL EXPOSED BORROW AREA AND POOL GRADING AREA SURFACES SHALL BE TOPSOILED TO A MINIMUM DEPTH OF EIGHT (8) INCHES.
5.

THE BERM SURFACE SHALL BE TOPSOILED TO A MINIMUM DEPTH OF EIGHT (8) INCHES.
6.

EXCESS TOPSOIL TO BE WASTED IN AN AREA OUTSIDE OF THE POOL DESIGNATED BY THE ENGINEER.
7.

ALL AREAS UNDER STRUCTURE FILL SHALL BE SCARIFIED TO A DEPTH OF SIX (6) INCHES AND BE RECOMPACTED IN ACCORDANCE WITH STD. SPEC. IA-23, SECTION 6, METHOD 2.
8.

EARTHFILL - CONTRACTOR TO ENSURE ADEQUATE MOISTURE AND DENSITY THROUGHOUT CONSTRUCTION. COMPACTION IS TO BE PERFORMED IN ACCORDANCE WITH SPEC. IA-23 EARTHFILL.
9.

FILL SHALL BE PLACED IN LOOSE LIFTS NO THICKER THAN NINE (9) INCHES. ENGINEER MAY DIRECT THINNER LIFTS BASED ON AVAILABLE COMPACTION EQUIPMENT.
10.

UTILITIES - CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL: 1-800-292-8989 AND PROTECTION OF ALL UTILITIES.
11.

EXISTING TILE - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING TILE LOCATIONS AND ELEVATIONS, PRIOR TO INSTALLING NEW TILE.
12.

SAFETY - ALL WORK SHALL BE DONE ACCORDING TO OSHA STANDARDS FOR PROTECTION OF LIFE. NOTHING INDICATED ON THE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATION.
13.

ENCOUNTERED TILE - ALL TILE LINES UNDER FOOT PRINT OF STRUCTURE AND POOL ARE TO BE LOCATED AND REMOVED AND REROUTED AS SHOWN ON PLANS.
14.

CONTRACTOR SHALL IMMEDIATELY REPORT TO ENGINEER ALL PREVIOUSLY UNKNOWN TILE LINES ENCOUNTERED DURING THE WORK AND LEAVE THE TILE LINES UNCOVERED FOR EVALUATION BY ENGINEER.
15.

CONTROL - CONTRACTOR IS TO PROTECT ALL CONTROL POINT AND WORK LIMIT PINS SET PRIOR TO CONSTRUCTION.
16.

SLOPES - BORROW SITES AND POOL GRADING AREAS SHALL BE GRADED WITH A MINIMUM CUT/FILL SLOPE OF 3H:1V.
17.

SOILS - CONTRACTOR SHALL OBTAIN FILL FOR STRUCTURE FROM AREAS DESIGNATED ON PLANS.
18.

WATER - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT CONSTRUCTION TO ENSURE FAVORABLE WORKING CONDITIONS, INCLUDING DEWATERING AS NECESSARY.
19.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER TO ENSURE SOILS MEET MINIMUM MOISTURE REQUIREMENTS.
20.

EQUIPMENT STAGING - CONTRACTOR TO DESIGNATE EQUIPMENT STAGING AREA AT PRECONSTRUCTION MEETING.
21.

ACCESS SHALL BE COORDINATED WITH THE LANDOWNER PRIOR TO MOBILIZATION.
22.

CONCRETE WASHOUT: A DESIGNATED CONCRETE WASHOUT LOCATION SHALL BE PROVIDED. WASHOUT AREA SHALL NOT BE IN THE WETLAND AREA.
23.

SUPPLEMENTAL DETAILS:
- 23.1.

SUDAS 9040.119 - SILT FENCE
- 23.2.

SUDAS 9040.105 - WATTLE
- 23.3.

SUDAS 9040.120 - STABILIZED CONSTRUCTION EXIT

PROJECT GENERAL NOTES

1.

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.
2.

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.
3.

WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
4.

FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5.

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.
6.

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.
7.

ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
8.

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.
9.

THE CONTRACTOR IS REQUIRED TO CONTACT "IOWA ONE CALL" FOR UTILITY LOCATIONS A MINIMUM OF 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-292-8989).
10.

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, STOP IMMEDIATELY AND NOTIFY THE LOCAL NATURAL RESOURCES CONSERVATION SERVICE OFFICE.
11.

ALL CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH NRCS NATIONAL AND STATE UTILITY SAFETY POLICY (NEM PART 503-SAFETY, SUBPART A - ENGINEERING ACTIVITIES AFFECTING UTILITIES 503.00 THROUGH 503.06)
12.

CONSTRUCTION CONTRACT BETWEEN CONTRACTOR AND IDALS, PLANS, SPECIFICATIONS, PROJECT MANUAL, AND ADDENDA. ANY MODIFICATIONS MUST BE APPROVED BY IDALS.
13.

NRCS DOES NOT GUARANTEE THAT THE POND WILL FILL AND/OR REMAIN FILLED WITH WATER TO THE PRINCIPAL SPILLWAY CREST ELEVATION.
14.

PROPOSED DESIGN MEETS PRACTICE STANDARD DESIGN CRITERIA AND COMPLIES WITH APPLICABLE LAWS AND REGULATIONS SET FORTH IN 210-NEM-505.

CONSERVATION PRACTICE STANDARDS
PRIMARY

656: CONSTRUCTED WETLAND

SUPPORTING

327: CONSERVATION COVER

342: CRITICAL AREA PLANTING

356: DIKE OR LEVEE

378: POND

410: GRADE STABILIZATION STRUCTURE

587: STRUCTURE FOR WATER CONTROL

606: SUBSURFACE DRAIN

620: UNDERGROUND OUTLET

ITEMS OF WORK TABLE

	SUB-ITEM	DESCRIPTION	SPECIFICATION NO.	ESTIMATED QUANTITY	UNIT
	1	- Mobilization & Demobilization	CS-008	1	LS
	2	- Site Stripping & Preparation	IA-CS-001	1	LS
	3	- Crop Damage	IA-CS-001	0	AC
	4	- Silt Fence	IA-CS-005	430	LF
	5	- Straw Wattle	IA-CS-005	175	LF
	6	- Buffer Seeding	IA-CS-006	6.4	AC
	7	- Structure Seeding	IA-CS-006	0.7	AC
	8	- Drain Tile Investigation	IA-CS-009	5	HR
	9	- Drain Tile Removal	IA-CS-009	200	LF
	10	- Steel Sheet Piling	IA-CS-013	1202	SF
	11	- Excavation (General)	IA-CS-021	3535	CY
	12	- Excavation (Core Trench)	IA-CS-021	320	CY
	13	- Earthfill (Submerged Berms)	IA-CS-023	203	CY
	14	- Earthfill (General Dam & Core)	IA-CS-023	2299	CY
	15	- Earthfill (General Stockpiling & Wasting)	IA-CS-023	807	CY
	16	- Topsoil Placement	IA-CS-026	3619	CY
	17	- Corrugated Polyethylene Tubing (Non-perforated):			
	A	8-inch	IA-CS-046	1672	LF
	18	- Corrugated Polyethylene Tubing (Perforated):			
	A	4-inch (Toe-Drain)	IA-CS-046	256	LF
	19	- Corrugated profile Wall (Dual Wall) Polyethylene Pipe			
	A	12-inch	IA-CS-046	49	LF
	20	- Drain Tile Connections			
	A	6-inch	IA-CS-046	5	EA
	B	4-inch	IA-CS-046	22	EA
	21	- Stoplog Storage Structure	IA-CS-046	1	EA
	22	- Water Control Structure Assembly	IA-CS-051	1	EA
	23	- 12-inch Tile Outlet	IA-CS-051	4	EA
	24	- Riprap, Class E	IA-CS-061	437	TON
	25	- Granular Foundation Material	IA-CS-061	44.5	TON
	26	- Road Access Driveway	IA-CS-061	1	EA
	27	- Concrete Grout	IA-CS-062	87	CY

INSPECTION TABLE

Bid Item	Sub Item	Description	Spec. Ref	Shop Drawing	Required Inspection or Survey
1	-	Mobilization & Demobilization	CS-008		
2	-	Site Stripping & Preparation	IA-CS-001		Inspection: verify topsoil strip depth Review: by survey or contractor equipment (laser level, machine control)
3	-	Crop Damage	IA-CS-001		Inspection: area damaged Review: engineer's survey of damaged area
4	-	Silt Fence	IA-CS-005	X	Inspection: verify proper installation and total linear feet of material visual Review:
5	-	Straw Wattle	IA-CS-005	X	Inspection: verify proper installation and total linear feet of material visual Review:
6	-	Buffer Seeding	IA-CS-006	X	Inspection: seed bed preperation Review: visual
7	-	Structure Seeding	IA-CS-006	X	Inspection: seed bed preperation Review: visual
8	-	Drain Tile Investigation	IA-CS-009		Inspection: encountered drain tile not shown on plans Review: visual inspection + survey as conditions dictate
9	-	Drain Tile Removal	IA-CS-009		
10	-	Steel Sheet Piling	IA-CS-013	X	Inspection: confirmation of sheet length prior to driving, visual inspection of driving, and survey of final elevations Review: visual and survey
11	-	Excavation (General)	IA-CS-021		Inspection: soils suitability for earthen berm and core trench Review: visual, non-destructive field testing (ribboring)
12	-	Excavation (Core Trench)	IA-CS-021		
13	-	Earthfill (Submerged Berms)	IA-CS-023		Inspection: Compaction of earthen berm and core trench, ensure proper method is utilized Review: visual, field testing as required (proof roll, denting)
14	-	Earthfill (General Dam & Core)	IA-CS-023		
15	-	Earthfill (General Stockpiling & Wasting)	IA-CS-023		Inspection: Final grading Review: visual + survey as conditions dictate
16	-	Topsoil Placement	IA-CS-026		Inspection: subgrade to verify topsoiling depth Review: by survey or contractor equipment (laser level, machine control)
17	-	Corrugated Polyethylene Tubing (Non-perforated):			Inspection: Initial blinding, use of ASTM Class 2 backfill Review: visual, engineer supplied pipe crawler (if conditions dictate), survey of flow line elevations upon notice from contractor
	A	8-inch	IA-CS-046	X	
18	-	Corrugated Polyethylene Tubing (Perforated):			Inspection: Initial blinding, use of ASTM Class 2 backfill Review: visual, engineer supplied pipe crawler (if conditions dictate), survey of flow line elevations upon notice from contractor
	A	4-inch (Toe-Drain)	IA-CS-046	X	
19	-	Corrugated profile Wall (Dual Wall) Polyethylene Pipe	IA-CS-046	X	Inspection: Initial blinding, use of ASTM Class 2 backfill Review: visual, engineer supplied pipe crawler (if conditions dictate), survey of flow line elevations upon notice from contractor
20	-	Drain Tile Connections			Inspection: soil tight joint Review: visual
	A	6-inch	IA-CS-046		
	B	4-inch			
21	-	Stoplog Storage Structure	IA-CS-046	X	
22	-	Water Control Structure Assembly	IA-CS-051	X	Inspection: sub-grade prep and concrete base, verification of flowlines Review: visual and survey
23	-	12-inch Tile Outlet	IA-CS-051	X	Inspection: soil tight joint Review: visual
24	-	Riprap, Class E	IA-CS-061	X	Inspection: Subgrade preperation with base (less around riser), final installation Review: visual, survey or contractor equipment (laser level, machine control) as conditions dictate
25	-	Granular Foundation Material	IA-CS-061	X	Inspection: sub-grade conditions that require foundation Review: visual
26	-	Road Access Driveway	IA-CS-061	X	Inspection: final grading and surfacing placement Review: visual and survey as conditions dictate
27	-	Concrete Grout	IA-CS-062	X	Inspection: pouring/installation of grout Review: visual
Note: Provide Engineer with 48 hours notice prior to anticipated inspection date					



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PROJECT

IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30398
FILE NAME	30398-C0-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	--/--
CLIENT PROJECT NO.	-

TITLE

CONSTRUCTION
NOTES

SHEET

C0-20

ITEM NO.	ITEM CODE	DESCRIPTION
1	CS-008	<u>MOBILIZATION AND DEMOBILIZATION</u> INCLUDES PREPARATORY WORK AND OPERATIONS INCLUDING, BUT NOT LIMITED TO, THOSE NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE; SIGN INSTALLATION; FOR THE ESTABLISHMENT OF ALL CONTRACTOR FACILITIES NECESSARY FOR WORK ON THE PROJECT; AND FOR ALL OTHER WORK AND OPERATIONS WHICH MUST BE PERFORMED, OR COST INCURRED BEFORE BEGINNING WORK ON THE VARIOUS ITEMS ON THE PROJECT SITE INCLUDING BONDS AND INSURANCE. MOBILIZATION PAYMENT WILL BE PRORATED BASED ON PERCENT OF COMPLETED WORK. SEE SPECIFICATIONS CS-008 FOR DETAILS.
2	IA-CS-001	<u>SITE STRIPPING & PREPARATION</u> ITEM IS FOR CLEARING AND GRUBBING OF TREES, LOGS, STUMPS, ROOTS, HEDGE, BRUSH, FENCE, SIGNS, VEGETATION, AND ANY OTHER DEBRIS LOCATED IN THE PROJECT AREA. ITEM ALSO INCLUDES STRIPPING OF TOPSOIL TO THE DEPTH INDICATED IN THE PLANS AND STOCKPILING TOPSOIL IN DESIGNATED AREAS. (EST 4,000 CY) QUANTITIES SHALL BE CONSIDERED FINAL. SOME GRUBBED MATERIAL MAY BE PILED EAST OF THE WETLAND SITE WITH PERMISSION FROM THE LANDOWNER, ALL REMAINING MATERIAL SHALL BE BURNED OR DISPOSED OF OFFSITE. CONTRACTOR IS RESPONSIBLE FOR BURNING AND BURYING IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS.
3	IA-CS-001	<u>Crop Damage</u> INCLUDES CROP DAMAGE THAT RESULTS FROM CONSTRUCTION ACTIVITES. IT IS RECOMMENDED THE CONTRACTOR REMOVE CORN RESIDUE RATHER THAN KNOCK IT DOWN. THE EXACT LOCATION OF CROP DAMAGE WILL BE DETERMINED DURING CONSTRUCTION AND MEASURED TO THE NEAREST 0.1 ACRE
4	IA-CS-005	<u>SILT FENCE</u> INCLUDES FURNISHING AND INSTALLING SILT FENCE PER SUDAS SPECIFICATIONS. SILT FENCE IS SHOWN ON THE SITE RESTORATION PLAN SHEET. SILT FENCE LOCATIONS AND SIZES ARE APPROXIMATE. EXACT LOCATION AND LENGTH OF SILT FENCE NEEDED WILL BE DETERMINED DURING CONSTRUCTION. IF ACCUMULATED SEDIMENT REACHES A LEVEL ONE-HALF THE HEIGHT OF THE FENCE, REMVOCE THE ACCUMULATED SEDIMENT. THE SILT FENCE SHALL BE CAREFULLY INSPECTED AND ANY MAINTENANCE NEEDED SHALL BE INCLUDED IN BID ITEM.
5	IA-CS-005	<u>STRAW WATTLE</u> TO BE USED AROUND WETLAND AND SPOIL PLACEMENT SITES AND AS NEEDED FOR EROSION CONTROL. INCLUDES PLACEMENT, MAINTENANCE, REMOVAL, AND OFFSITE DISPOSAL OF SEDIMENT, AND REMOVAL OF DEVICE. REFER TO THE SITE RESTORATION PLAN SHEET. EXACT LOCATION AND LENGTH OF WATTLES NEEDED WILL BE DETERMINED DURING CONSTRUCTION.
6	IA-CS-006	<u>BUFFER SEEDING</u> INCLUDES ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO PREPARE SEED BED, SEED, FERTILIZE AND MULCH AND ESTABLISH GROWTH IN DISTURBED AREAS. USE BUFFER SEEDING MIX IN IA CS-006 SPECIFICATION SEED BED PREPARATION SHALL BE REVIEWED AND ACCEPTED BY ENGINEER PRIOR TO SEEDING. ALL ROCKS AND CLODS LARGER THAN GOLF BALL SIZE SHALL BE REMOVED FROM THE SEED BED. WEED CONTROL IS RESPONSIBILITY OF CONTRACTOR. INCLUDES SUPPLEMENTAL WATERING AS REQUIRED AND RESEEDING AREAS OF NON-GERMINATION.
7	IA-CS-006	<u>STRUCTURE & CHANNEL SEEDING</u> INCLUDES ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO PREPARE SEED BED, SEED, FERTILIZE AND MULCH AND ESTABLISH GROWTH IN DISTURBED AREAS. USE STRUCTURE AND WATERWAY/CHANNEL SEEDING MIX IN IA CS-006 SPECIFICATION. SEED BED PREPARATION SHALL BE REVIEWED AND ACCEPTED BY ENGINEER PRIOR TO SEEDING. ALL ROCKS AND CLODS LARGER THAN GOLF BALL SIZE SHALL BE REMOVED FROM THE SEED BED. WEED CONTROL IS RESPONSIBILITY OF CONTRACTOR. INCLUDES SUPPLEMENTAL WATERING AS REQUIRED AND RESEEDING AREAS OF NON-GERMINATION.
8	IA-CS-009	<u>DRAIN TILE INVESTIGATION</u> ALL EXPLORATORY INVESTIGATION IS TO BE COMPLETED BY THE CONTRACTOR PRIOR TO ANY TILE WORK, UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER TO PROCEED DIFFERENTLY. CONTRACTOR IS TO GIVE ENGINEER (712-732-7745) 48 HOURS NOTICE PRIOR TO PERFORMING ANY EXPLORATORY INVESTIGATION WORK. CONTRACTOR IS ENCOURAGED TO PERFORM EXPLORATORY EXCAVATION OF EXISTING UTILITIES AS SOON AS POSSIBLE TO ALLOW PROPER LEAD TIME FOR CONFLICT RESOLUTION, IF NECESSARY.
9	IA-CS-009	<u>DRAIN TILE REMOVAL</u> INCLUDES EXCAVATION; REMOVAL AND DISPOSAL OF EXISTING TILE; AND PLACING, COMPACTING, AND GRADING OF BACKFILL. CONTRACTOR IS TO REMOVE TILE ONLY IN AREAS SPECIFIED IN THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MUCH OF THE REMOVAL IS TO OCCUR WITHIN OR NEAR THE PROPOSED POOL AREA AND CAN BE COMPLETED WHILE GRADING THE POOL. ALL REMOVED TILE SHALL BECOME PROPERTY OF THE CONTRACTOR. INSTALLING CAPS ON THE TILE TO REMAIN IN PLACE IS INCIDENTAL TO THIS BID ITEM.
10	IA-CS-013	<u>STEEL SHEET PILING</u> INCLUDES FURNISHING AND DRIVING THE SPECIFIED SHEET PILING AT THE LOCATION SHOWN ON THE DRAWINGS. PILING SHALL BE DRIVEN IN A MANNER SO AS TO ENSURE PERFECT INTERLOCKING THROUGHOUT THE ENTIRE LENGTH OF EACH PILE. PILING SHALL BE DRIVEN TO THE FULL DEPTH SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL CUT THE PILING OFF AT THE SPECIFIED ELEVATIONS. PILING LENGTH SHALL BE SUFFICIENT TO PERMIT REMOVAL OF ALL MATERIALS DAMAGED BY DRIVING.
11	IA-CS-021	<u>EXCAVATION (GENERAL)</u> REFER TO GRADING PLANS FOR DETAILS AND SHEET C4-10 FOR THE EARTHWORK SUMMARY. QUANTITIES SHALL BE CONSIDERED FINAL AND NO ADDITIONAL PAYMENT WILL BE ALLOWED. INCLUDES REMOVAL AND GRADING TO FINAL SUBGRADE ELEVATIONS, AS WELL AS SCARIFICATION AND COMPACTION OF THE EXPOSED CUT SURFACES.
12	IA-CS-021	<u>EXCAVATION (CORE TRENCH)</u> REFER TO ITEM NUMBER 11
13	IA-CS-023	<u>EARTHFILL (SUBMERGED BERM - METHOD 1)</u> REFER TO GRADING PLANS FOR DETAILS. INCLUDES PLACEMENT AND GRADING OF SUBMERGED BERMS WITHIN THE WETLAND AREA TO FINAL PLAN ELEVATIONS, METHOD 1 COMPACTION WILL BE REQUIRED IN THIS AREA. ADDITIONAL MATERIAL IS TO BE WASTED IN THE SPOILS PLACEMENT AREA TO THE EAST OF THE WETLAND.
14	IA-CS-023	<u>EARTHFILL (GENERAL DAM - METHOD 2)</u> REFER TO GRADING PLANS FOR DETAILS. INCLUDES PLACEMENT AND GRADING TO FINAL SUBGRADE ELEVATIONS. METHOD 2 COMPACTION IS REQUIRED, REFER TO SPECIFICATIONS FOR DETAILS. MATERIAL EXCAVATED FOR THE CORE TRENCH MAY BE REUSED AS FILL, IF MATERIAL IS SUITABLE. ALL OTHER BORROW MATERIAL IS EXPECTED TO COME FROM THE POOL GRADING AND FOREBAY AREAS.

15	IA-CS-023	<u>EARTHFILL (GENERAL STOCKPILING)</u> REFER TO GRADING PLANS FOR DETAILS. INCLUDES PLACEMENT AND GRADING OF EXCESS MATERIAL IN THE SPOILS PLACEMENT AREA TOT HE EAST OF THE WETLAND, METHOD 1 COMPACTION WILL BE REQUIRED IN THIS AREA.
16	IA-CS-026	<u>TOPSOIL PLACEMENT</u> THE PROJECT AREA SHALL BE DRESSED WITH A MINIMUM OF 8" OF TOPSOIL IN AREAS DESIGNATED ON THE PLANS. ANY EXCESS TOPSOIL SHALL BE SPREAD IN THE DESIGNATED AREA EAST OF THE WETLAND, UNLESS OTHERWISE DIRECTED BY ENGINEER OR LANDOWNER.
17	IA-CS-046	<u>CORRUGATED POLYETHYLENE TUBING (NON-PERFORATED)</u> INCLUDES TRENCH EXCAVATION AND INSTALLATION OF PIPE ACCORDING TO PLANS AND SPECIFICATIONS. ITEM INCLUDES LINEAR MEASUREMENT THROUGH ALIGNMENT TURNS, PREFABRICATED ELBOWS, AND TEE SECTIONS. FABRICATION AND INSTALLATION OF FITTINGS AND ANTI-SEEP COLLARS IS INCIDENTAL TO THIS ITEM. MATERIAL SHALL BE STANDARD POLYETHYLENE TUBING AS SPECIFIED IN IA-CS-046. PIPE IS TO BE LAID IN ACCORDANCE WITH SPOON OR FLAT BOTTOM TRENCH (SEE DETAILS). ITEM INCLUDES ALL GRANULAR BEDDING AND ENCASEMENT MATERIAL TO MEET INSTALLATION REQUIREMENTS. AN UNSTABLE TRENCH BOTTOM SHALL BE STABILIZED WITH GRANULAR FOUNDATION MATERIAL UPON APPROVAL FROM THE ENGINEER. GRANULAR FOUNDATION MATERIAL, IF APPROVED BY ENGINEER, WILL BE PAID UNDER A SEPERATE BID ITEM. ITEM ALSO INCLUDES ALL SHORING/BRACING REQUIRED FOR SURROUNDING UTILITIES AND STRUCTURES TO PROPERLY INSTALL PIPE. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND ELEVATIONS. SUBSIDIARY TO THIS BID ITEM IS THE SEPARATION OF SOILS DURING INSTALLATION. ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. BACKFILL SHALL BE COMPACTED PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED TO A MINIMUM OF 18", OR UNIFORM TO THE TOPSOIL DEPTH OF THE SURROUNDING AREA.
18	IA-CS-046	<u>CORRUGATED POLYETHYLENE TUBING (PERFORATED)</u> REFER TO ITEM NUMBER 17
19	IA-CS-046	<u>CORRUGATED PROFILE WALL (DUAL WALL) POLYETHYLENE PIPE</u> INCLUDES TRENCH EXCAVATION AND INSTALLATION OF PIPE ACCORDING TO PLANS AND SPECIFICATIONS. ITEM INCLUDES LINEAR MEASUREMENT THROUGH ALIGNMENT TURNS, PREFABRICATED ELBOWS, AND TEE SECTIONS. FABRICATION AND INSTALLATION OF FITTINGS AND ANTI-SEEP COLLARS IS INCIDENTAL TO THIS ITEM. MATERIAL SHALL BE HIGH DENSITY POLYETHYLENE WITH GASKETED JOINTS AS SPECIFIED IN IA-CS-046. PIPE IS TO BE LAID IN ACCORDANCE WITH SPOON OR FLAT BOTTOM TRENCH (SEE DETAILS). ITEM INCLUDES ALL GRANULAR BEDDING AND ENCASEMENT MATERIAL TO MEET INSTALLATION REQUIREMENTS. AN UNSTABLE TRENCH BOTTOM SHALL BE STABILIZED WITH GRANULAR FOUNDATION MATERIAL UPON APPROVAL FROM THE ENGINEER. GRANULAR FOUNDATION MATERIAL, IF APPROVED BY ENGINEER, WILL BE PAID UNDER A SEPERATE BID ITEM. ITEM ALSO INCLUDES ALL SHORING/BRACING REQUIRED FOR SURROUNDING UTILITIES AND STRUCTURES TO PROPERLY INSTALL PIPE. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS AND ELEVATIONS. SUBSIDIARY TO THIS BID ITEM IS THE SEPARATION OF SOILS DURING INSTALLATION. ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. BACKFILL SHALL BE COMPACTED PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED TO A MINIMUM OF 18", OR UNIFORM TO THE TOPSOIL DEPTH OF THE SURROUNDING AREA.
20	IA-CS-045	<u>MISC. DRAIN TILE REPAIRS AND CONNECTIONS</u> ITEM IS TO BE USED FOR CONNECTING ANY TILE PREVIOUSLY CONNECTED TO THE EXISTING TILE, CONNECTING BASIN DRAINS, AND EMERGENCY REPAIR OF UNKNOWN TILE ACCIDENTALLY DAMAGED DURING CONSTRUCTION. ITEM INCLUDES ANY FITTINGS, GRANULAR MATERIAL, CONCRETE, OR OTHER MATERIALS REQUIRED TO REPAIR AND/OR CONNECT THE TILE TO THE PROPOSED PIPE, AND UP TO 20 LF OF TUBING TO MAKE CONNECTIONS. ITEM ALSO INCLUDES THE KEEPING AND DELIVERY OF A LOG OF CONNECTIONS MADE, AND APPROPRIATE CRUSH AND BURY OR REMOVAL AND DISPOSAL OF EXISTING TILE MATERIAL.
21	IA-CS-046	<u>STOPLOG STORAGE STRUCTURE</u> ITEM INCLUDES PIPE AND END CAP AS SHOWN IN THE PLANS. ITEM ALSO INCLUDES ALL EXCAVATION, COMPACTED ROCK, BEDDING AND BACKFILL.
22	IA-CS-051	<u>WATER CONTROL STRUCTURE ASSEMBLY</u> ITEM INCLUDES FURNISHING AND INSTALLATION OF THE CMP RISER INLET STRUCTURE, CMP WATER CONTROL STRUCTURE WITH STOPLOG CHANNEL, STOPLOGS, CONCRETE BASE, DRAWDOWN PIPE, AND 12" CMP PIPE AS SHOWN ON THE PLANS. ITEM ALSO INCLUDES ALL EXCAVATION, PLACING, COMPACTING BACKFILL MATERIAL, AND PIPE CONNECTIONS AND ANTI-SEEP COLLARS REQUIRED FOR THE WATER CONTROL STRUCTURE ASSEMBLY, LABOR, AND OTHER MATERIALS NECESSARY FOR THE INSTALLATION OF THE WATER CONTROL STRUCTURE ASSEMBLY.
23	IA-CS-051	<u>TILE OUTLET</u> ITEM INCLUDES FURNISHING AND INSTALLATION OF THE 20 LF CMP TILE OUTLET, CONCRETE COLLAR, AND ANIMAL GUARD. TILE OUTLET PIPE SHOULD HAVE A MINIMUM GRADE OF 1%. THE OUTLET INVERT SHOULD BE A MINIMUM OF 1-FOOT ABOVE THE NORMAL POOL ELEVATION IN WHICH IT IS DRAINING INTO.
24	IA-CS-061	<u>RIPRAP</u> MATERIAL SHALL COMPLY WITH GRADATION OF IOWA DOT SPECIFICATION 4130.02, CLASS E. PAYMENT WILL BE FOR ACTUAL TONS PLACED BASED ON SCALE TICKETS.
25	IA-CS-061	<u>GRANULAR FOUNDATION MATERIAL</u> INCLUDES FURNISHING, STOCKPILING, AND INSTALLING THE SPECIFIED MATERIAL. MATERIAL SHALL MEET ASTM D2321 CLASS 1 (CRUSHED ROCK, ANGULAR). MATERIAL MUST BE CRUSHED AND ANGULAR, ROUNDED PEBBLES, STONES OR "RIVER ROCK" WILL NOT BE ACCEPTED. ITEM WILL ONLY BE PAID FOR RIPRAP/EROSION FILTER STONE AND HDPE DUAL-WALL PIPE BEDDING, UPON APPROVAL OF ENGINEER. GRANULAR FOUNDATION MATERIAL USED FOR OTHER BID ITEMS, SUCH AS STRUCTURE FOUNDATION OR TILE CONNECTIONS, IS CONSIDERED INCIDENTAL TO THAT SPECIFIC BID ITEM AND WILL NOT BE PAID UNDER THIS ITEM.
26	IA-CS-061	<u>ROAD ACCESS DRIVEWAY</u> INCLUDES THE CONSTRUCTION OF A PERMANENT STABILIZED DRIVEWAY AND CULVERT AS SHOWN ON PLANS AND IN ACCORDANCE WITH FLOYD COUNTY SECONDARY ROADS. ITEM INCLUDES APPROXIMATLEY 14 TONS OF GRANULAR MATERIAL TO STABILIZE DRIVEWAY.
27	IA-CS-062	<u>CONCRETE GROUT</u> INCLUDES FURNISHING AND PLACING OF CONCRETE GROUT ON THE PORTIONS OF RIPRAP AS INDICATED IN THE PLANS. GROUT SHALL BE CONSOLIDATED INTO THE VOIDS WITH THE USE OF A CONCRETE VIBRATOR. THE GROUT APPLICATION SHALL BE ADJUSTED TO ENSURE THAT VOIDS ARE PROPERLY FILLED THROUGH THE ENTIRE RIPRAP DEPTH AND SHALL NOT CREATE A SMOOTH SURFACE. UNUSED OR WASTED GROUT WILL BE ESTIMATED AND DEDUCTED FROM PAYMENT VOLUME BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.



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PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

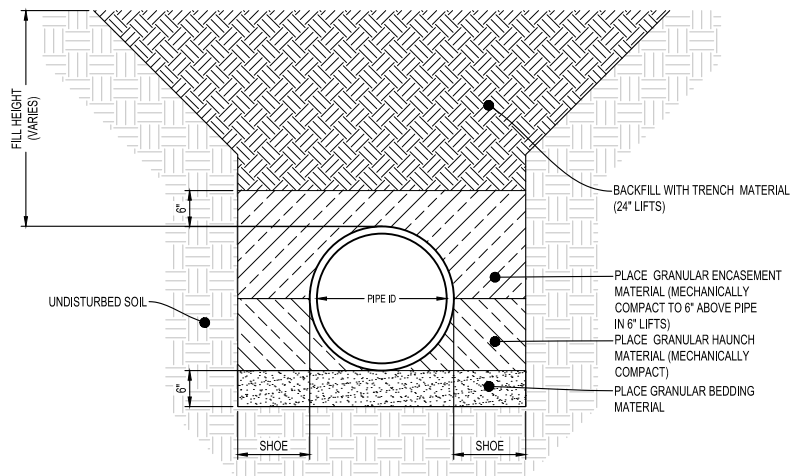
PROJECT NO.	23-30398
FILE NAME	30398-CO-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

**ESTIMATE
REFERENCE**

SHEET

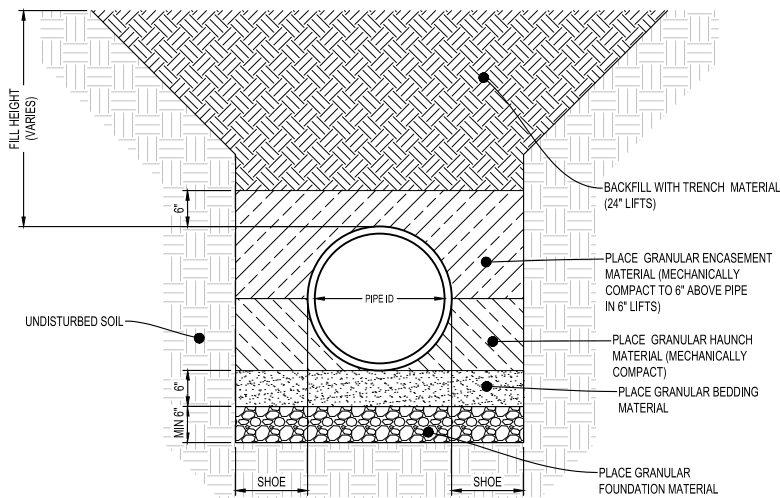
C0-21



NOTE:

1. GRANULAR BEDDING, GRANULAR ENCASEMENT, AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.
3. THE SHOE WIDTH SHALL BE THE SAME AS THE COMPACTING MECHANISMS WIDTH OR THE PIPE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER.

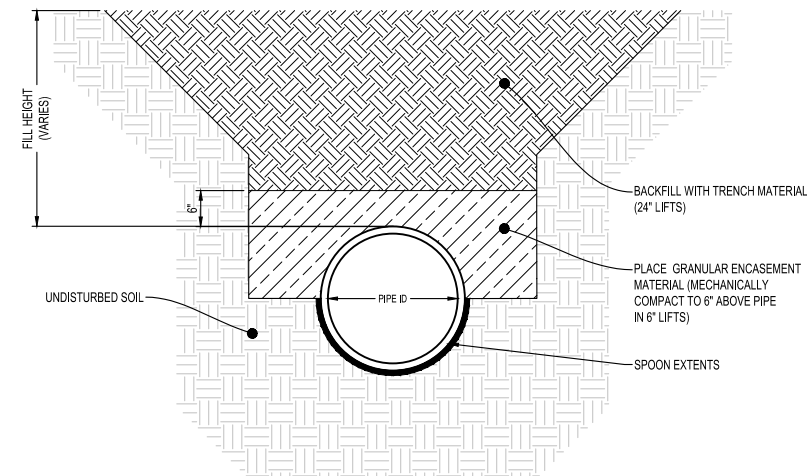
HDPE FLAT BOTTOM TRENCH
NTS



NOTES:

1. GRANULAR BEDDING, GRANULAR ENCASEMENT, AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. GRANULAR FOUNDATION BELOW THE PIPE SHALL BE PAID FOR BY THE CUBIC YARD, ONLY WHERE APPROVED BY THE FIELD ENGINEER.
3. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.
4. THE SHOE WIDTH SHALL BE THE SAME AS THE COMPACTING MECHANISMS WIDTH OR THE PIPE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER.

HDPE FLAT BOTTOM TRENCH WITH GRANULAR FOUNDATION
NTS



NOTES:

1. GRANULAR ENCASEMENT AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. SPOON DIMENSIONS SHALL COMPLY WITH PIPE MANUFACTURER'S SPECIFICATIONS.
3. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.

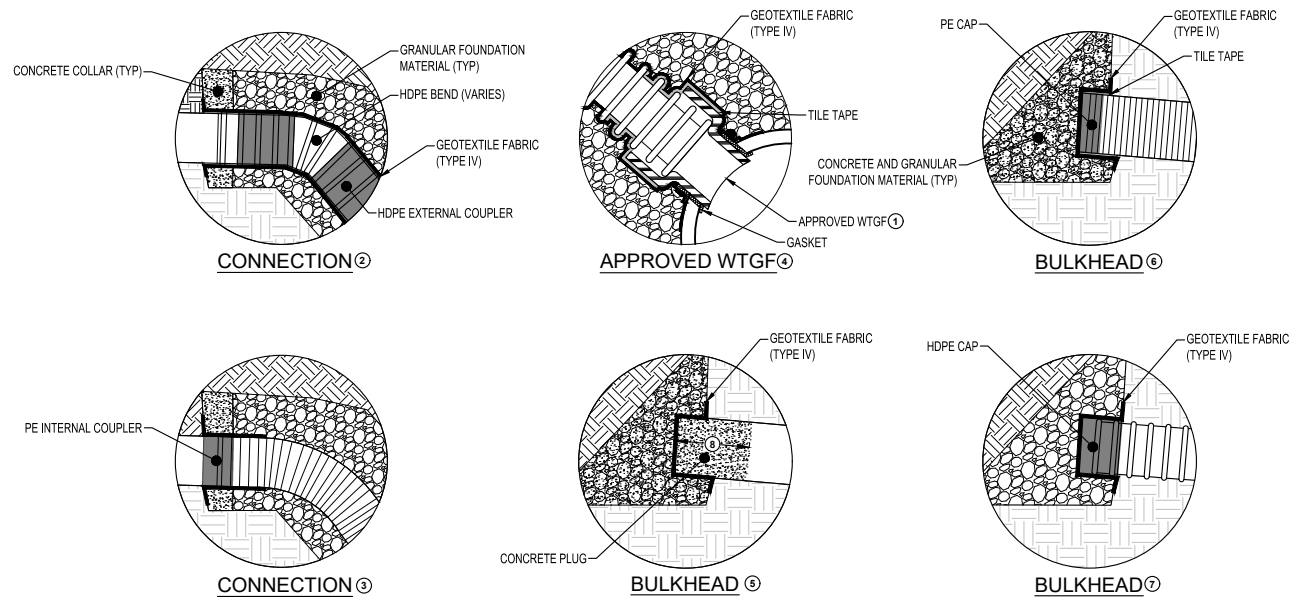
HDPE SPOON TRENCH
NTS

KEY NOTES:

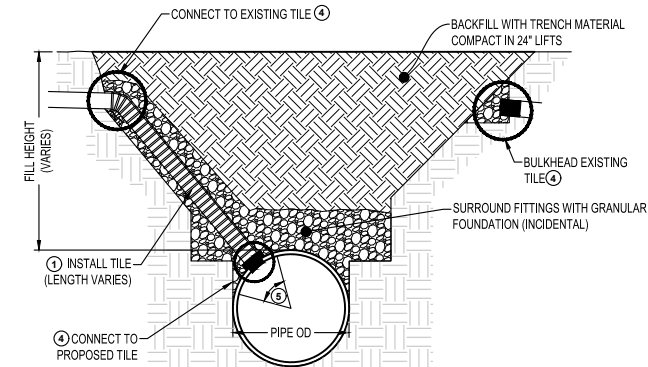
1. APPROVED WATERTIGHT GASKETED FITTING (WTGF) SHALL ONLY BE USED WHEN THE PIPE TO BE CONNECTED IS 1/2 (OR SMALLER) THE DIAMETER OF THE PIPE TO BE TAPPED. A MOLDED TEE SHALL BE USED IN ALL OTHER SITUATIONS. APPROVED WTGF SHALL NOT BE INSTALLED COMPLETELY VERTICAL OR INTO THE BOTTOM HALF OF THE PIPE TO BE TAPPED.
2. CONNECTION OF HDPE TO CLAY, CONCRETE, OR PE TILE.
3. CONNECTION OF PE TO CLAY, CONCRETE, OR PE TILE.
4. CONNECTION OF PE OR HDPE TO PIPE TO BE TAPPED.
5. BULKHEAD OF EXISTING CLAY OR CONCRETE TILE.
6. BULKHEAD OF EXISTING PE TILE.
7. BULKHEAD OF EXISTING HDPE TILE.
8. CONCRETE BULKHEAD SHALL EXTEND INTO THE PIPE A MINIMUM LENGTH EQUIVALENT TO ONE DIAMETER OF THE PIPE.

NOTES:

1. ALL TILE, FITTINGS, GEOTEXTILE FABRIC, FOUNDATION ROCK, TILE TAPE, CONCRETE, AND EXCAVATION SHALL BE INCIDENTAL TO RESPECTIVE BID ITEM UNLESS OTHERWISE NOTED.
2. NOT ALL SITUATIONS OR APPROVED EQUALS ARE DEMONSTRATED IN DETAIL. ENGINEER SHALL APPROVE OF EQUALS.



TYPICAL CONNECTION DETAILS
NTS



EXISTING TILE TYPE	FILL HEIGHT	CONNECTION MATERIAL 2
EXISTING PUBLIC TILES	ALL	HDPE
EXISTING PRIVATE TILES	>15 FEET	HDPE
EXISTING PRIVATE TILES	≤15 FEET	3

NOTES:

1. REFER TO THE TABLE FOR MATERIAL, SIZE VARIES, THE TILE SHALL BE THE SAME AS OR THE NEXT AVAILABLE SIZE, UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER.
 2. HDPE SHALL BE USED IF THE EXISTING TILE IS HDPE, REGARDLESS OF THE FILL HEIGHT.
 3. HDPE SHALL BE USED WITHIN 5' FROM THE PROPOSED PIPE AND THEN PE MAY BE USED.
 4. REFER TO TYPICAL CONNECTION DETAILS.
 5. CONNECTION TO PROPOSED TILE SHALL BE LIMITED TO 15 TO 75 DEGREES FROM SPRING LINE.
- ALL TILE, FITTINGS, GEOTEXTILE FABRIC, FOUNDATION ROCK, TILE TAPE, CONCRETE, AND EXCAVATION SHALL BE INCIDENTAL.

CONNECT TO EXISTING TILE
NTS



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PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30398
FILE NAME	30398-CO-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

DETAILS

SHEET

C0-22



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PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

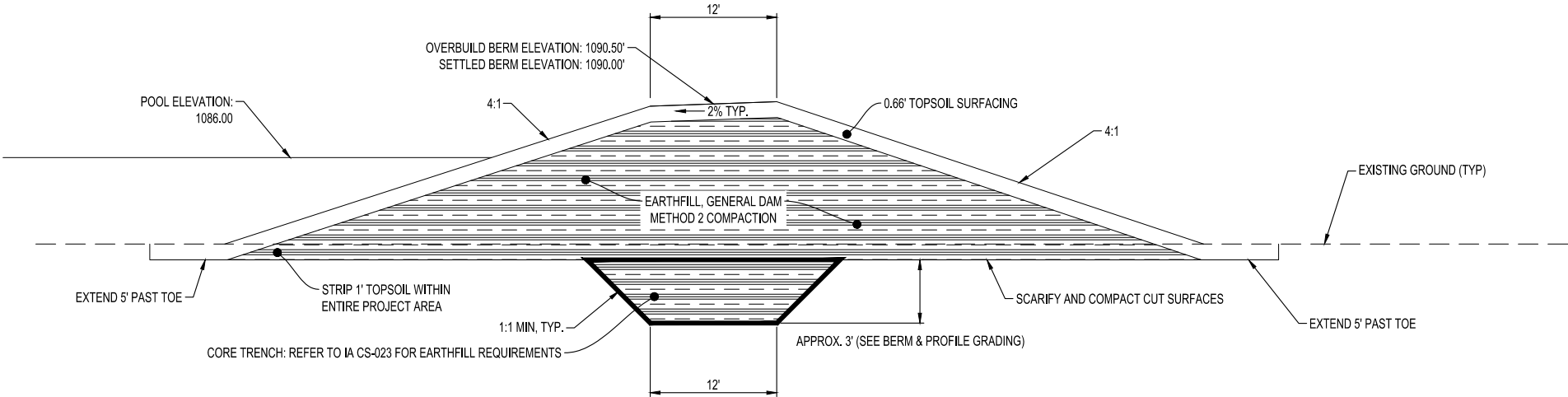
PROJECT NO.	23-30398
FILE NAME	30398-CO-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

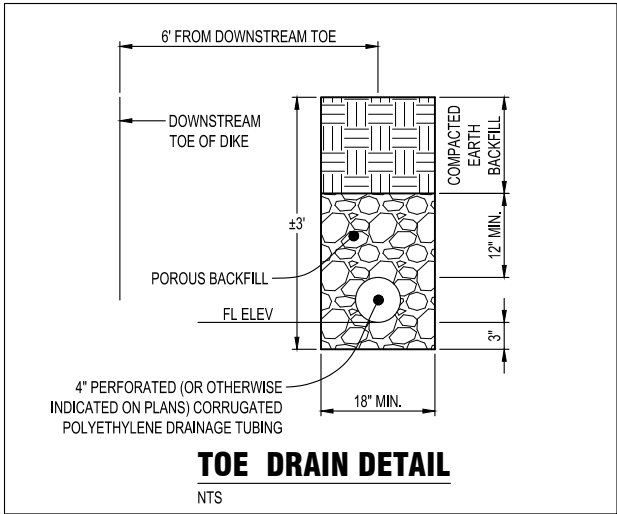
DETAILS

SHEET

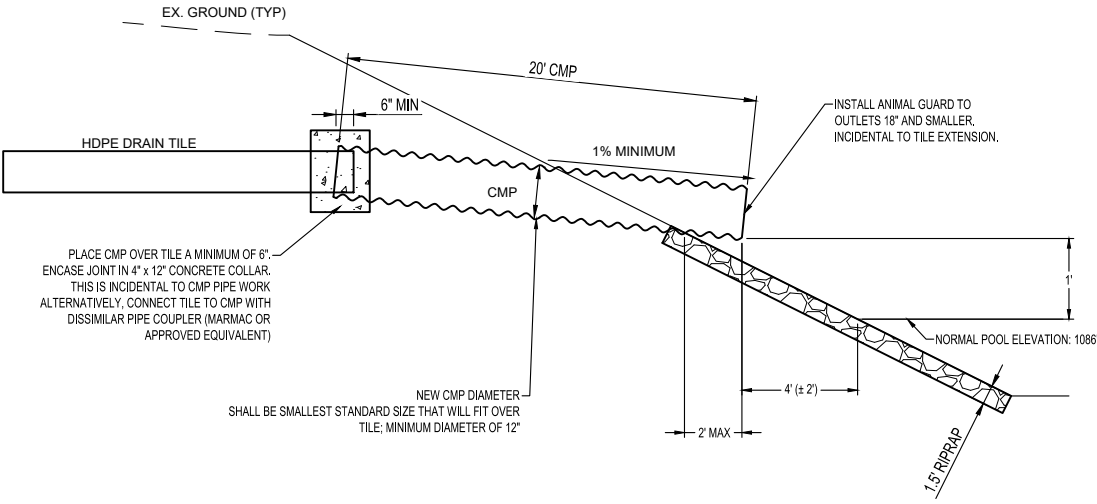
C0-23



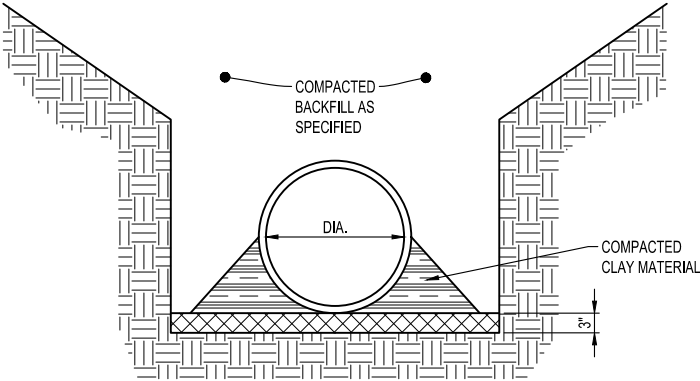
TYPICAL EMBANKMENT SECTION
NTS



TOE DRAIN DETAIL
NTS



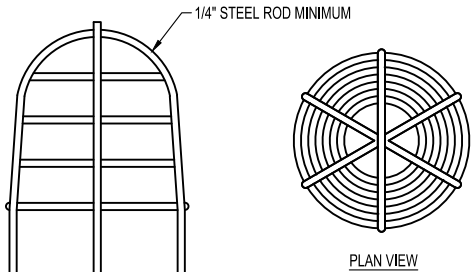
TILE OUTLET
NTS



- NOTES:
- BEGIN BACKFILL IMMEDIATELY AFTER PIPE HAS BEEN PLACED.
 - EXCAVATE 3" BELOW PIPE GRADE THEN BACKFILL WITH DAMP FRIABLE SOIL FREE FROM LUMPS AND RAKED OR GRADED TO A TRUE PLANE BEFORE PLACING CMP.
 - USE COMPACTED CLAY MATERIAL FOR PIPE BEDDING UPSTREAM OF PIPE DIAPHRAGM.
 - PIPE HAUNCH & BACKFILL MATERIAL SHALL BE HAND TAMPED ONLY. POWER TAMPING IS NOT ALLOWED.

CMP PIPE BEDDING FOR WATER CONTROL STRUCTURE

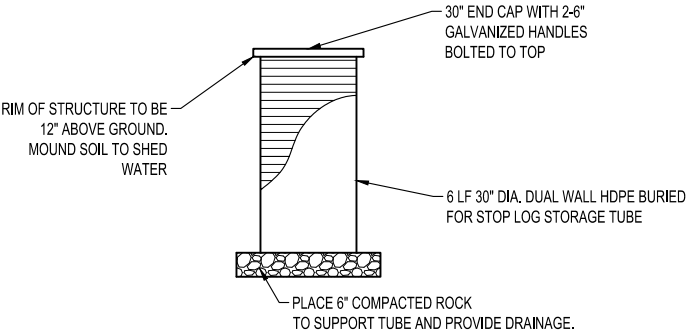
NTS



NOTE:
NUMBER OF RODS AND SIZE OF GRATE VARY W/ SIZE OF TILE INTAKES. PAINT WITH TWO (2) COATS RUST INHIBITING PAINT FOLLOWING FABRICATION.

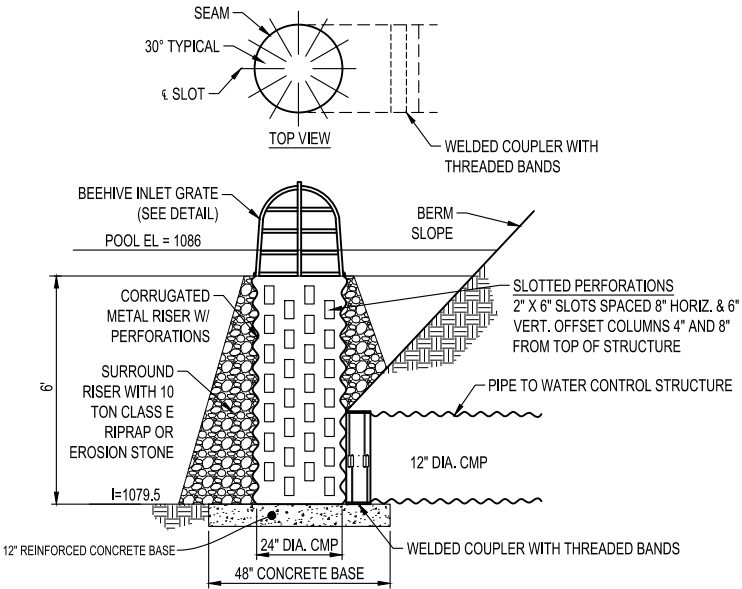
BEEHIVE INLET GRATE (STEEL BARS)

NTS



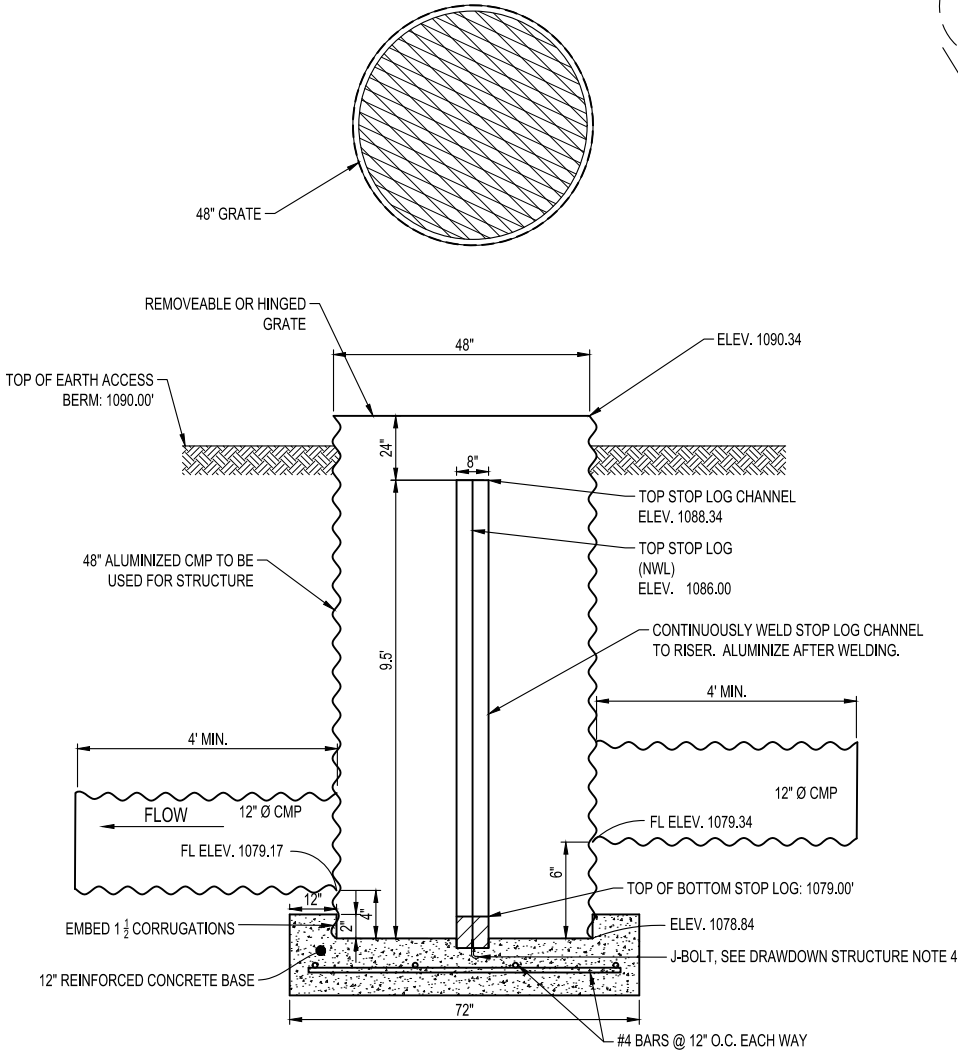
COVER AND STOP LOG STORAGE DETAILS

NTS



CMP SLOTTED INTAKE RISER

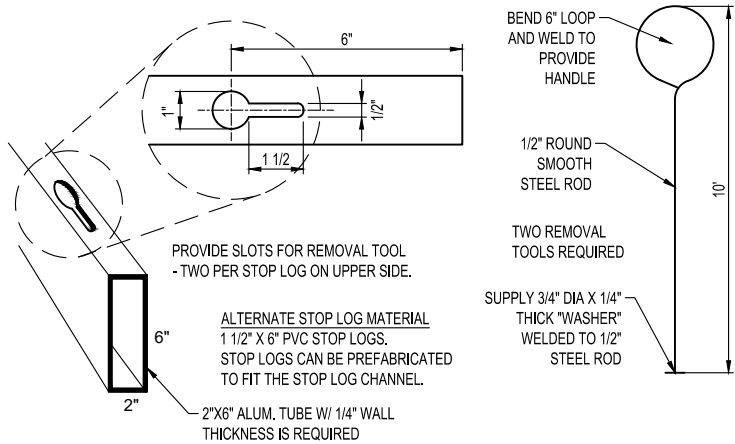
NTS



WATER CONTROL STRUCTURE ELEVATION

WATER CONTROL STRUCTURE NOTES:

- STRUCTURE SHOP DRAWINGS ARE REQUIRED FOR ENGINEER'S REVIEW AND APPROVAL BEFORE FABRICATION OF WATER CONTROL STRUCTURE.
- STRUCTURE IS TO BE CONSTRUCTED OF ALUMINIZED CORRUGATED METAL PIPE.
- STOP LOG CHANNEL IS TO BE ANCHORED TO THE WALLS AND FLOOR PRIOR TO PLACING CONCRETE INVERT.
- A CONCRETE INVERT IS TO BE INSTALLED AFTER STOP LOG CHANNEL IS INSTALLED. THE BOTTOM STOP LOG IS TO BE CAST INTO THE INVERT WITH THREE HALF INCH Ø "J BOLTS" FASTENED TO THE BOTTOM STOP LOG. NO LIFTING HOLES ARE REQUIRED FOR THIS BOTTOM LOG.
- PLACE/POUR BASE OF STRUCTURE ON FIRM UNDISTURBED EARTH FOUNDATION APPROVED BY ENGINEER.
- A-LOK (OR EQUIVALENT) WATERTIGHT SEALS ARE REQUIRED FOR PIPE CONNECTIONS TO THE WATER CONTROL STRUCTURE.
- MANHOLE STEPS ARE TO BE INSTALLED FOR MAINTENANCE ACCESS TO THE STOP LOGS.
- STOP LOG ASSEMBLY SHALL BE WATER TIGHT AND CONFORM TO WHIPPS, INC. OR AN APPROVED EQUAL. ALL STRUCTURE JOINTS TO BE WATER TIGHT TO LIMIT ANY WATER MIGRATING THROUGH JOINTS AND AROUND THE STOP LOG CHANNEL.
- ALL CMP FOR CONTROL STRUCTURE, RISER, AND ASSOCIATED PIPE SHALL BE 14 GA MINIMUM.



STOP LOG & REMOVAL TOOL DETAILS

NTS

STOP LOG CHANNEL NOTES:

- ALL STEEL SHALL BE FY=36 KSI.
- STOP LOG CHANNEL SHALL BE FURNISHED AS ONE CONTINUOUS PIECE W/ CONTINUOUS WELDS
- ALL STEEL STOP LOG CHANNEL COMPONENTS ARE TO BE ALUMINIZED AFTER WELDING AND DRILLING IS COMPLETE
- CONTRACTOR IS TO APPLY SEALANT VERY GENEROUSLY TO BACKSIDE OF STOP LOG CHANNEL TO ENSURE WATERTIGHT SEAL. SEALANT SHALL BE SIKA 30 YEAR INDUSTRIAL CAULK IN LIMESTONE GREY OR APPROVED EQUIVALENT.

COVER/STOP LOG STORAGE NOTES:

- PROVIDE COMPATIBLE GRATE WITH LOCKING MECHANISM AND LIFTING HANDLE (AGRIDRAIN GR24P OR APPROVED EQUIVALENT).
- BOTH PADLOCKS FOR ACCESS DOOR AND STOPLOG STORAGE TUBE SHALL BE KEYED ALIKE. FOUR KEYS ARE TO BE SUPPLIED UPON PROJECT COMPLETION.
- STOP LOG STORAGE IS TO BE PLACED CENTERED ON THE TOP OF BERM OFFSET SO AN NOT TO INTERFERE WITH ANTI-SEEP COLLARS OR WATER CONTROL STRUCTURE PIPING.
- STOP LOGS NOT USED ARE TO BE PLACED IN THE STOP LOG STORAGE.



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PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30398
FILE NAME	30398-CO-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

DETAILS

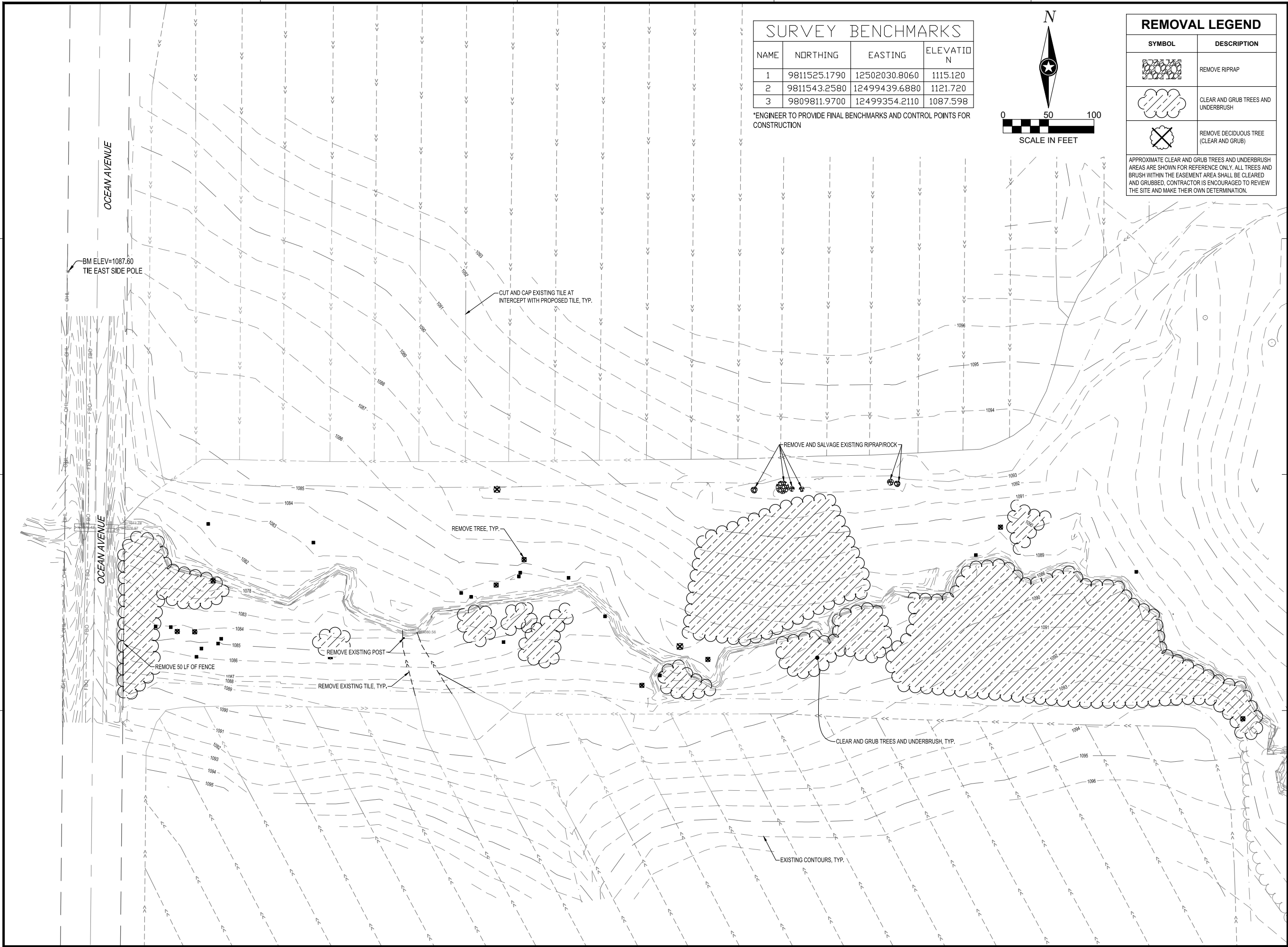
SHEET

C0-25

C0-26

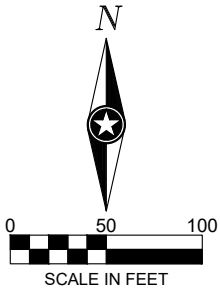


C0-27



SURVEY BENCHMARKS			
NAME	NORTHING	EASTING	ELEVATIO N
1	9811525.1790	12502030.8060	1115.120
2	9811543.2580	12499439.6880	1121.720
3	9809811.9700	12499354.2110	1087.598

*ENGINEER TO PROVIDE FINAL BENCHMARKS AND CONTROL POINTS FOR CONSTRUCTION



REMOVAL LEGEND	
SYMBOL	DESCRIPTION
	REMOVE RIPRAP
	CLEAR AND GRUB TREES AND UNDERBRUSH
	REMOVE DECIDUOUS TREE (CLEAR AND GRUB)
APPROXIMATE CLEAR AND GRUB TREES AND UNDERBRUSH AREAS ARE SHOWN FOR REFERENCE ONLY; ALL TREES AND BRUSH WITHIN THE EASEMENT AREA SHALL BE CLEARED AND GRUBBED, CONTRACTOR IS ENCOURAGED TO REVIEW THE SITE AND MAKE THEIR OWN DETERMINATION.	



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WETLAND**

FLOYD COUNTY IOWA

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DATE	DESCRIPTION	BY

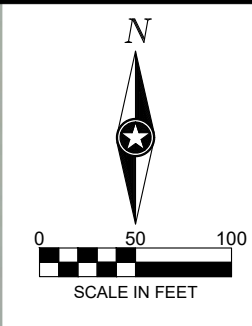
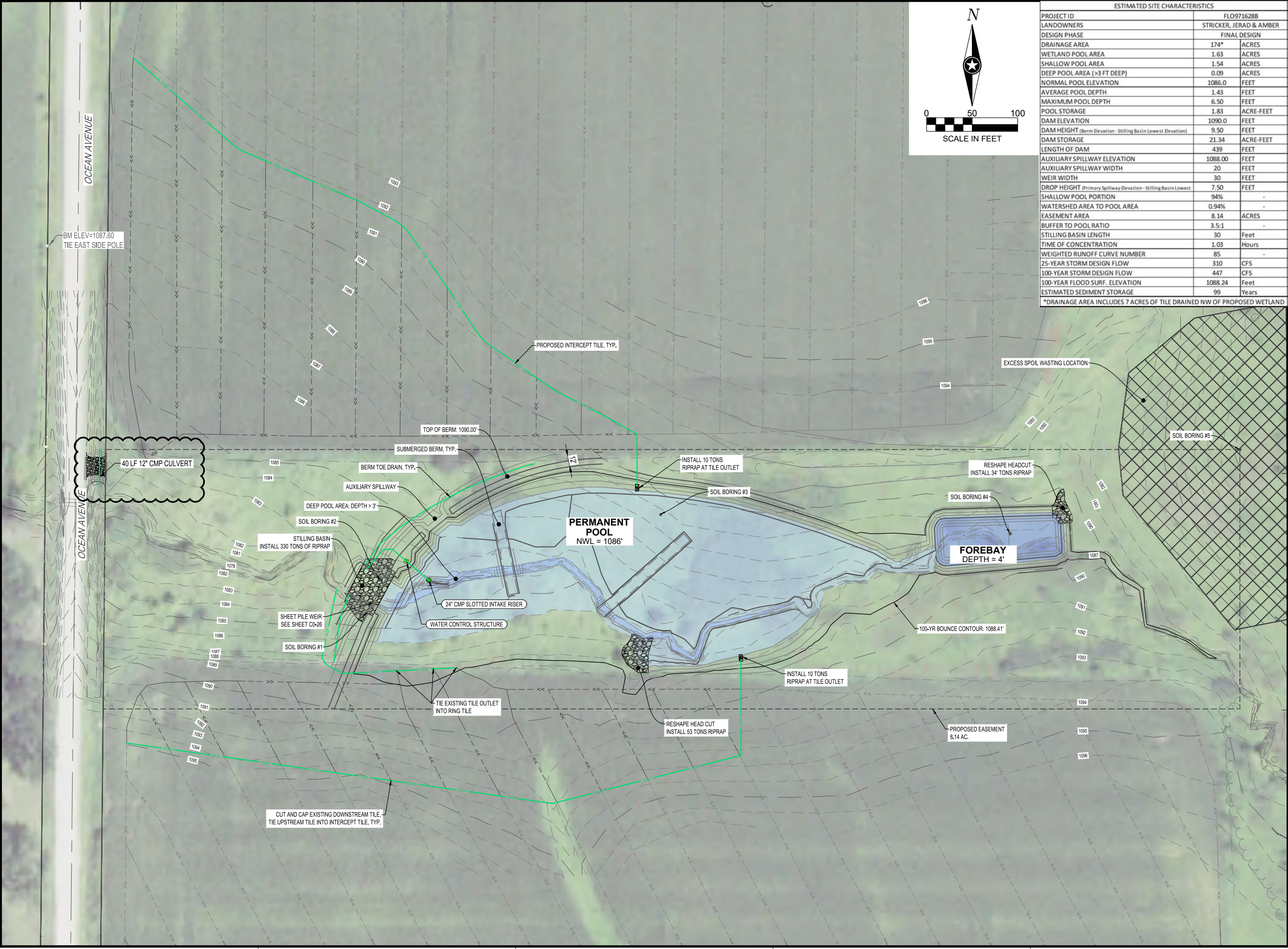
PROJECT NO.	23-30398
FILE NAME	30398-C2-EXIST
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

**EXISTING SITE &
REMOVAL PLAN**

SHEET

C2-10



ESTIMATED SITE CHARACTERISTICS		
PROJECT ID	FLO971628B	
LANDOWNERS	STRICKER, JERAD & AMBER	
DESIGN PHASE	FINAL DESIGN	
DRAINAGE AREA	174*	ACRES
WETLAND POOL AREA	1.63	ACRES
SHALLOW POOL AREA	1.54	ACRES
DEEP POOL AREA (>3 FT DEEP)	0.09	ACRES
NORMAL POOL ELEVATION	1086.0	FEET
AVERAGE POOL DEPTH	1.43	FEET
MAXIMUM POOL DEPTH	6.50	FEET
POOL STORAGE	1.83	ACRE-FEET
DAM ELEVATION	1090.0	FEET
DAM HEIGHT (Berm Elevation - Stilling Basin Lowest Elevation)	9.50	FEET
DAM STORAGE	21.34	ACRE-FEET
LENGTH OF DAM	439	FEET
AUXILIARY SPILLWAY ELEVATION	1088.00	FEET
AUXILIARY SPILLWAY WIDTH	20	FEET
WEIR WIDTH	30	FEET
DROP HEIGHT (Primary Spillway Elevation - Stilling Basin Lowest)	7.50	FEET
SHALLOW POOL PORTION	94%	-
WATERSHED AREA TO POOL AREA	0.94%	-
EASEMENT AREA	8.14	ACRES
BUFFER TO POOL RATIO	3.5:1	-
STILLING BASIN LENGTH	30	Feet
TIME OF CONCENTRATION	1.03	Hours
WEIGHTED RUNOFF CURVE NUMBER	85	-
25-YEAR STORM DESIGN FLOW	310	CFS
100-YEAR STORM DESIGN FLOW	447	CFS
100-YEAR FLOOD SURF. ELEVATION	1088.24	Feet
ESTIMATED SEDIMENT STORAGE	99	Years
*DRAINAGE AREA INCLUDES 7 ACRES OF TILE DRAINED NW OF PROPOSED WETLAND		



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PROJECT

**IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
8-17-2026	MOVED DRIVEWAY	EEP

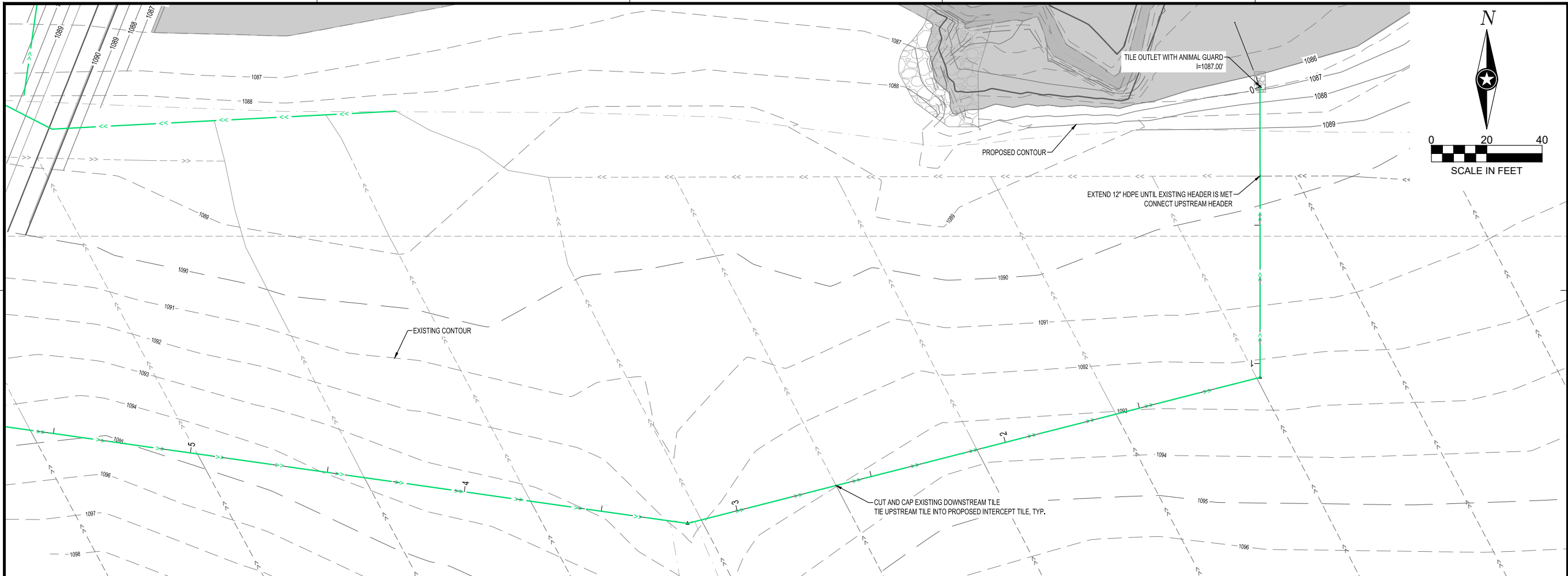
PROJECT NO.	23-30398
FILE NAME	30398-C3-SITE
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	8-17-2026
CLIENT PROJECT NO.	-

TITLE

SITE PLAN

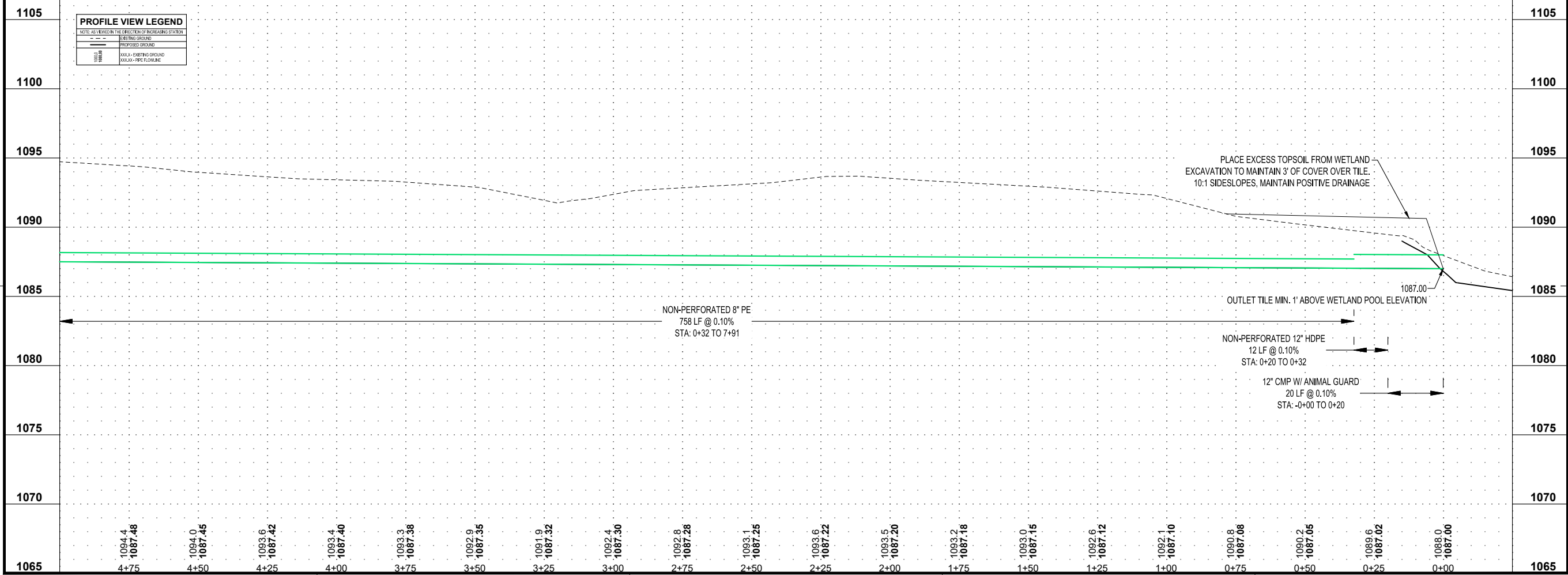
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C3-10



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PROJECT

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REDUCTION WQI
WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

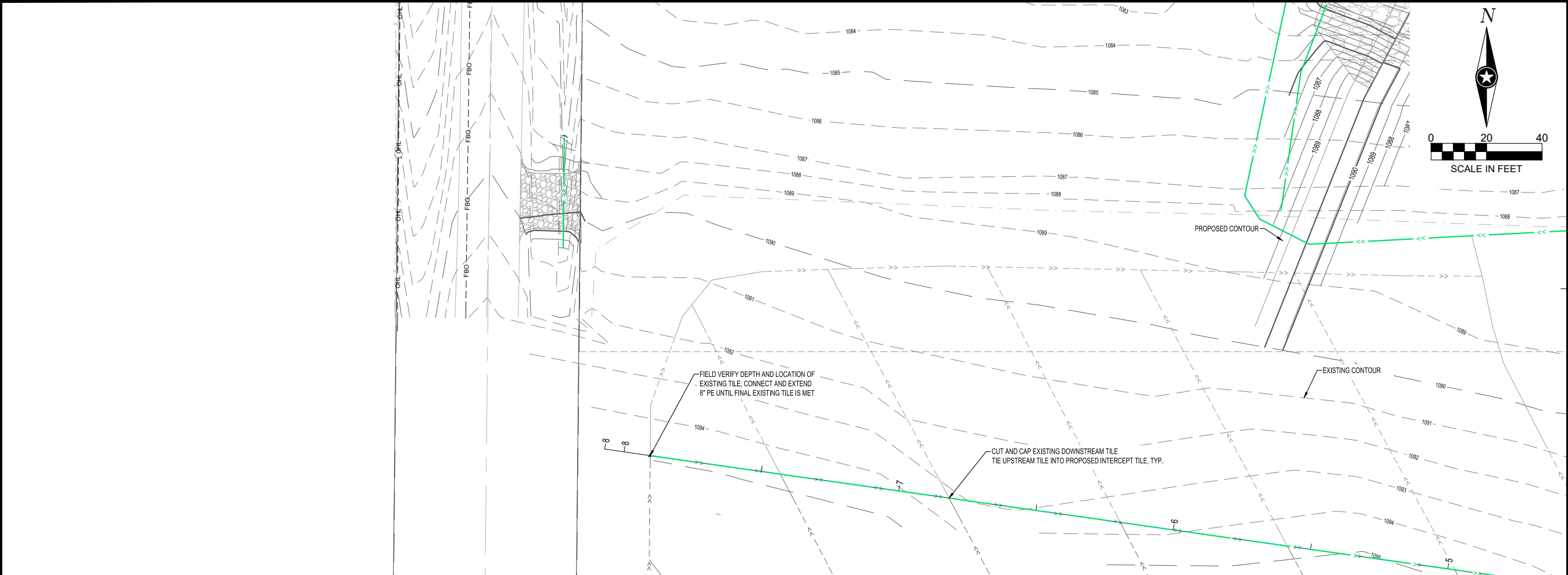
PROJECT NO.	23-30398
FILE NAME	30398-C3-UTILITY-PROF
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

**SOUTH TILE
INTERCEPT
PROFILE**

SHEET

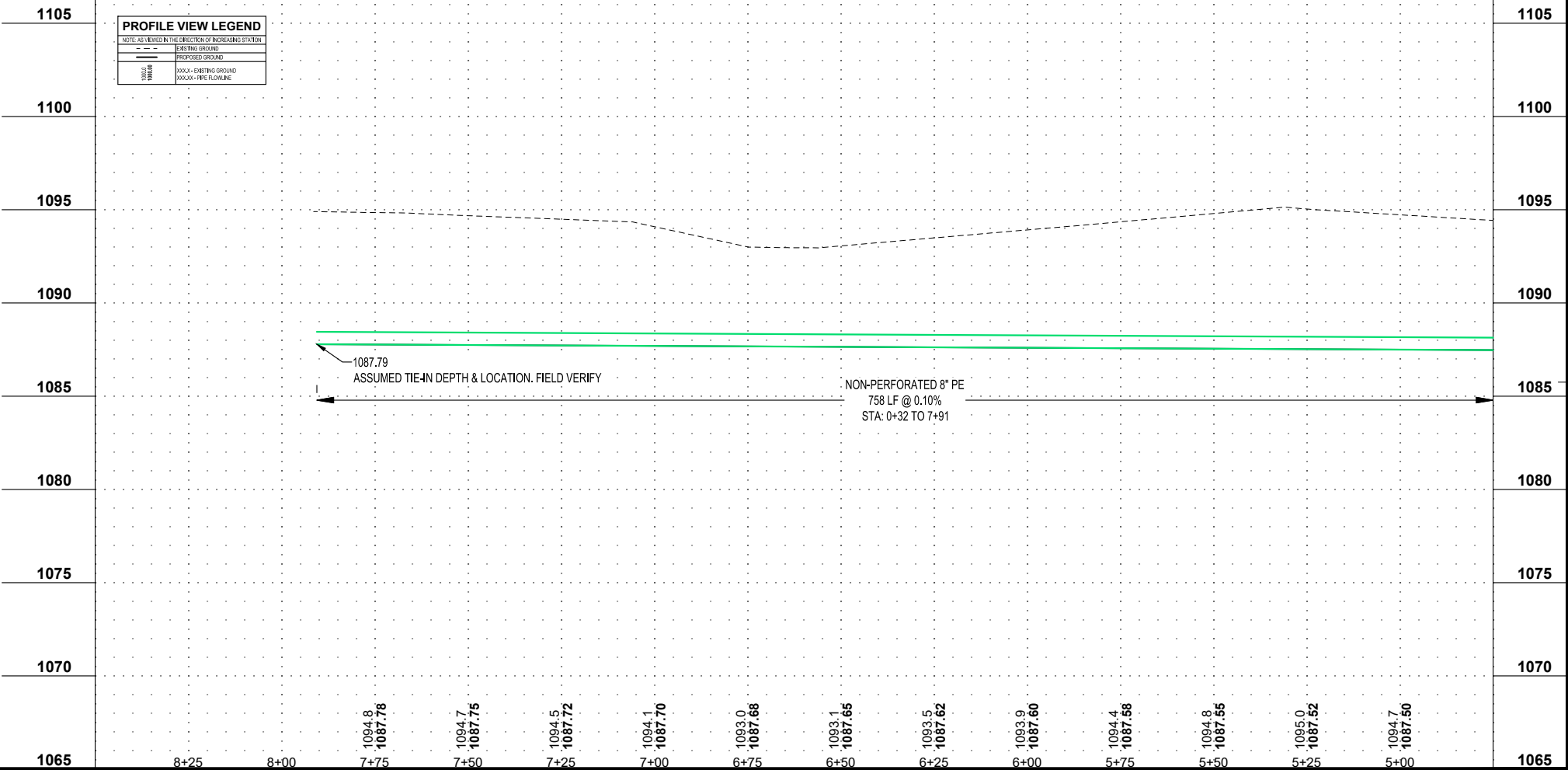
C3-30



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WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

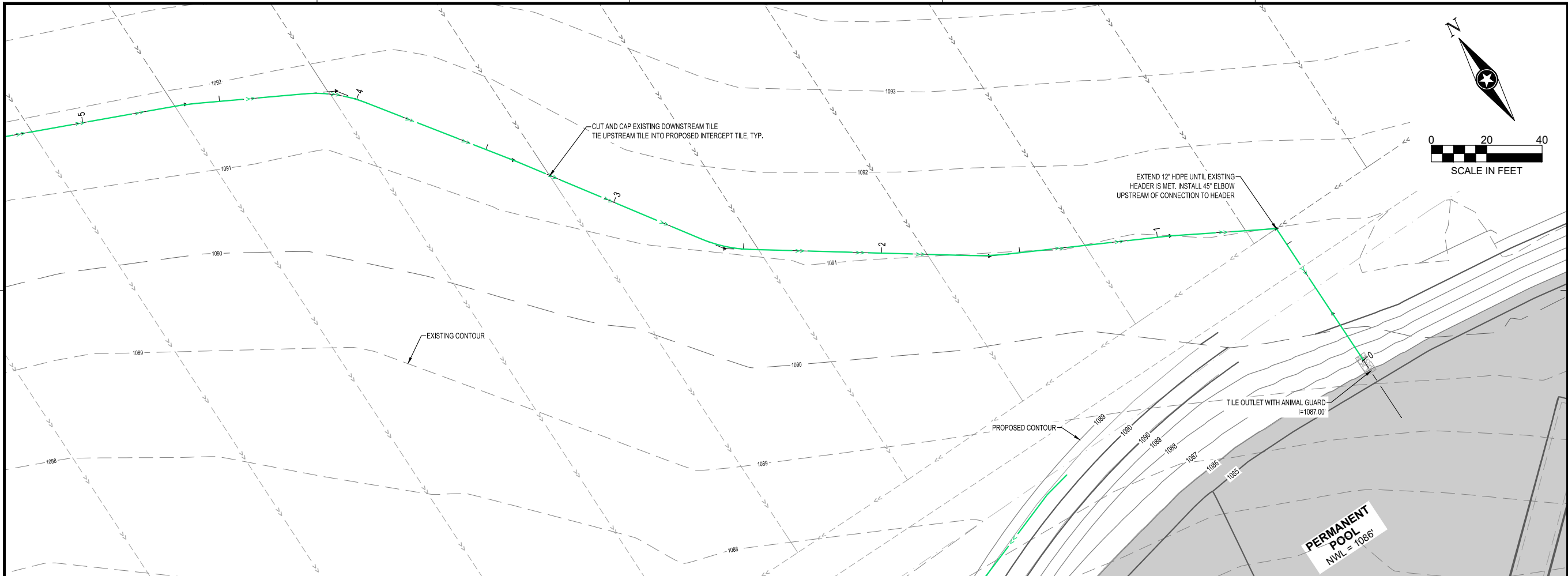
PROJECT NO.	23-30398
FILE NAME	30398-C3-UTILITY-PROF
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

TITLE

**SOUTH TILE
INTERCEPT
PROFILE**

SHEET

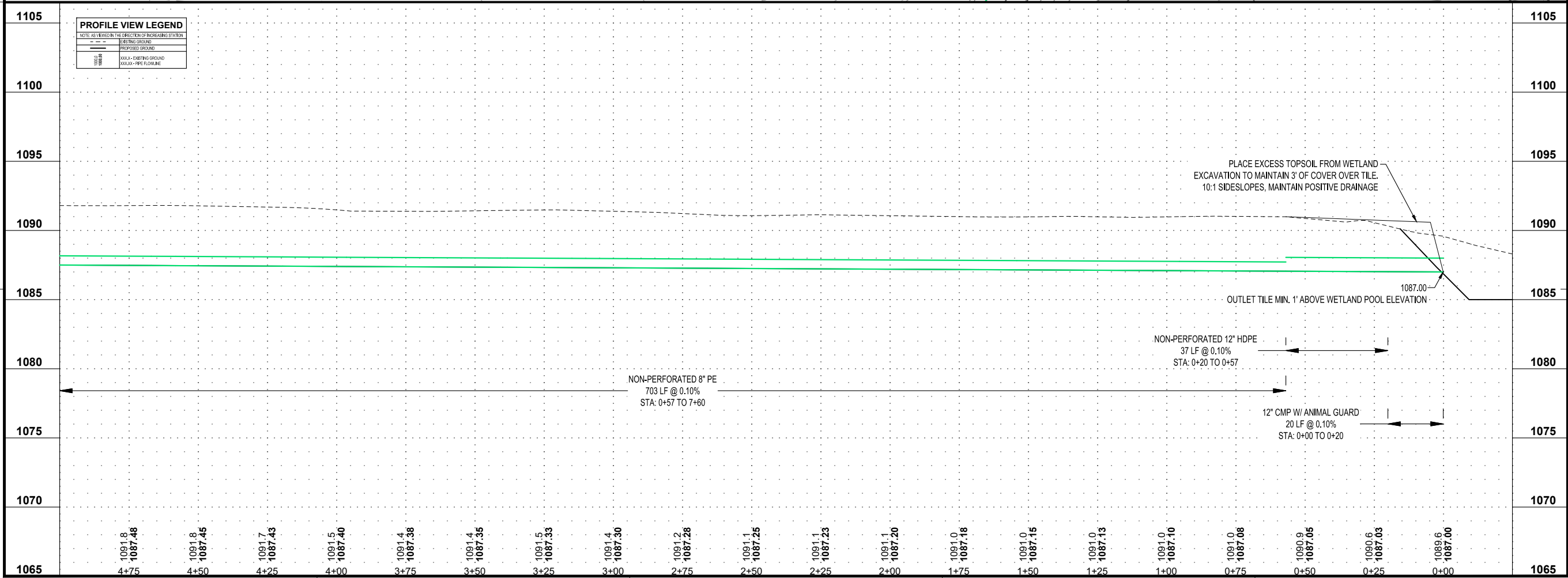
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FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND

FLOYD COUNTYIOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.

23-30398

FILE NAME

30398-C3-UTILITY-PROF

DRAWN BY

OBO

DESIGNED BY

SDP/JJJ

REVIEWED BY

SDP

ORIGINAL ISSUE DATE

11/1/2023

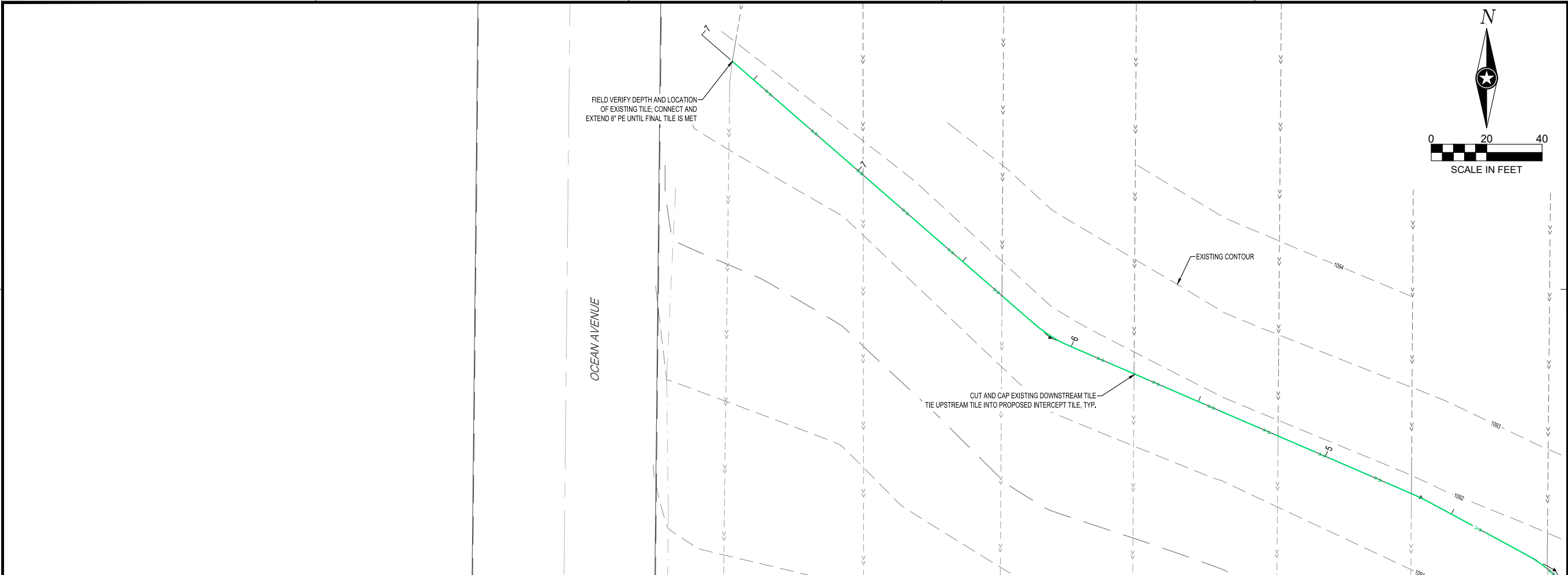
CLIENT PROJECT NO.

TITLE

NORTH TILE
INTERCEPT
PROFILE

SHEET

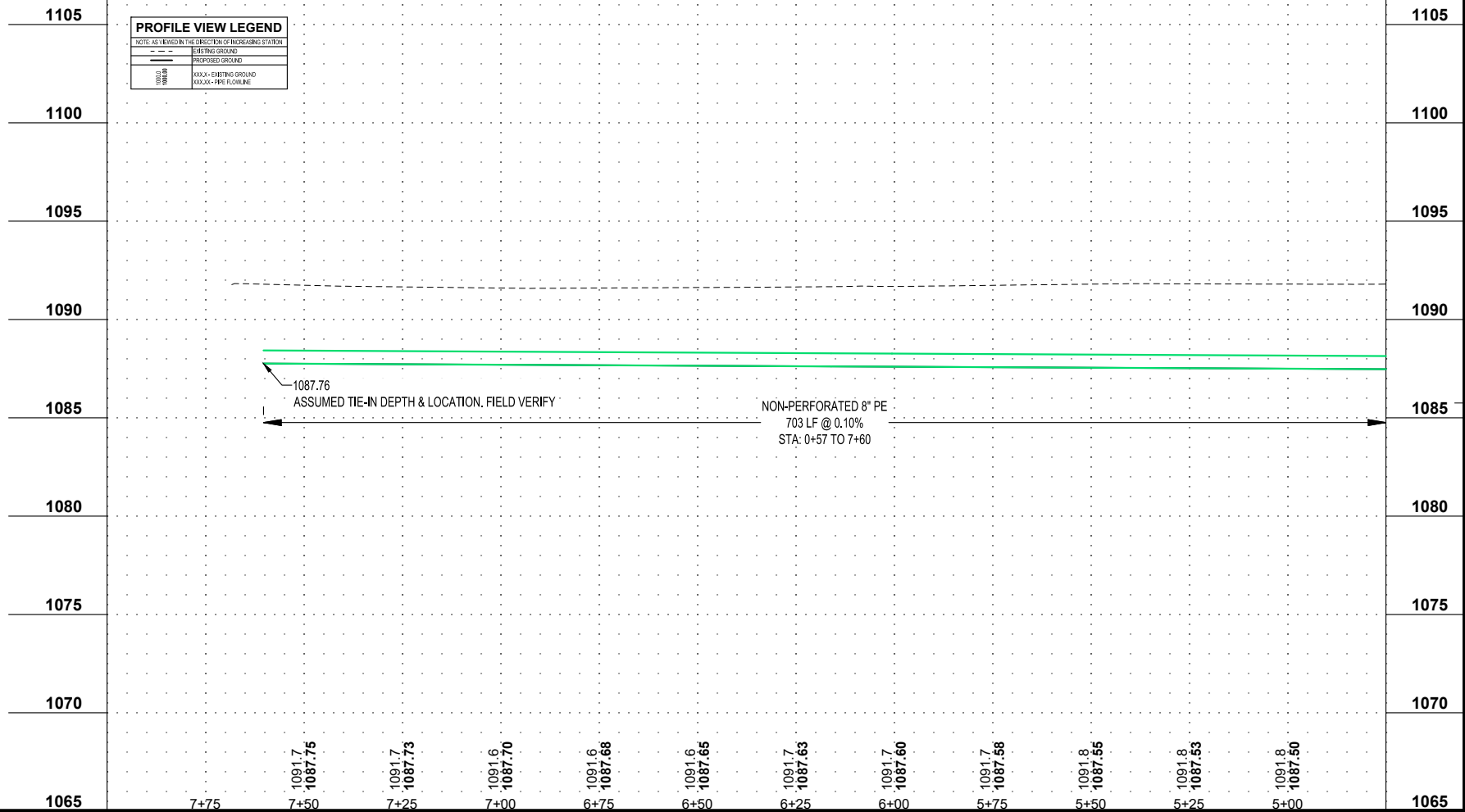
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WETLAND**

FLOYD COUNTY IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

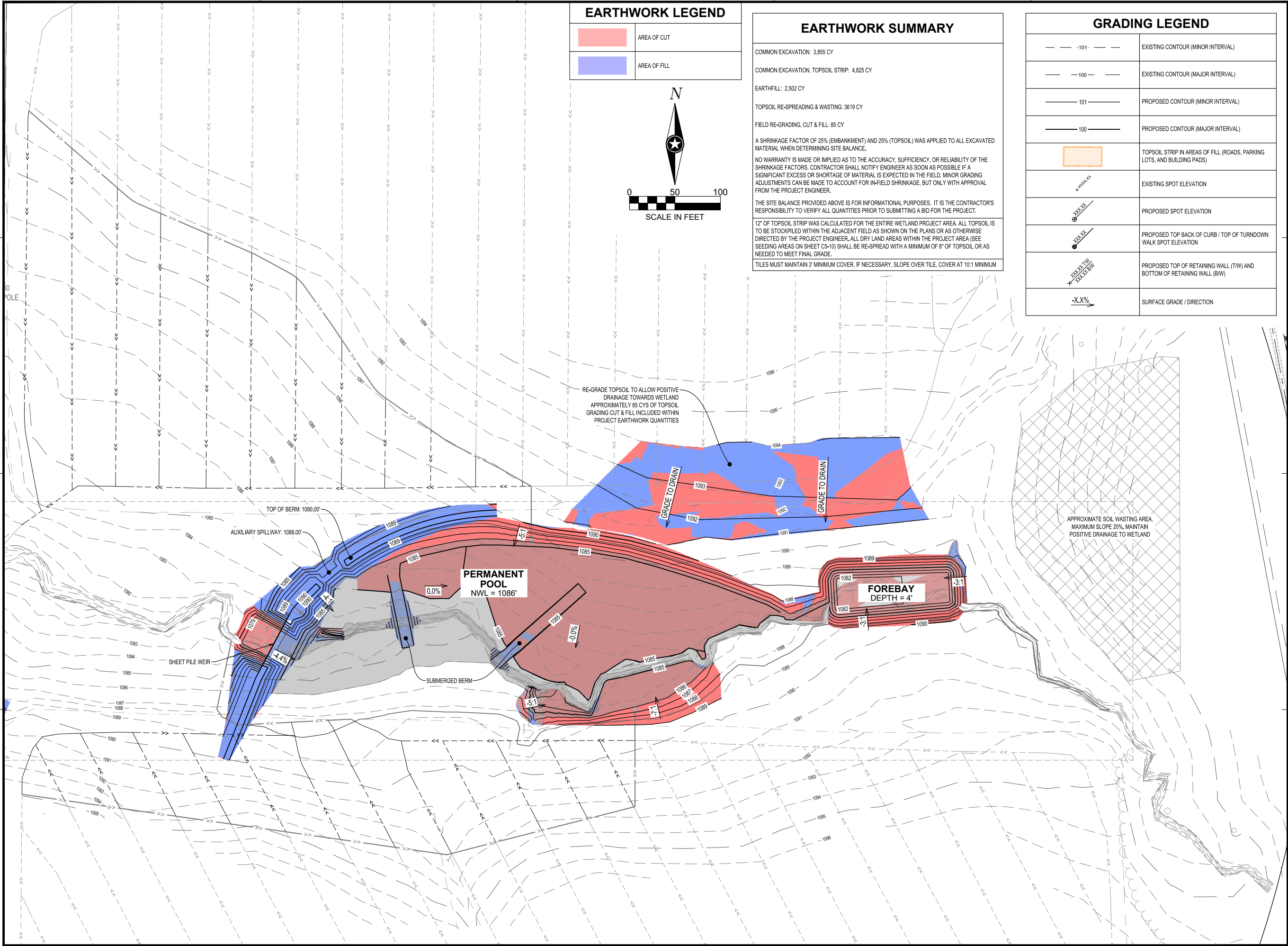
PROJECT NO.	23-30398
FILE NAME	30398-C3-UTILITY-PROF
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

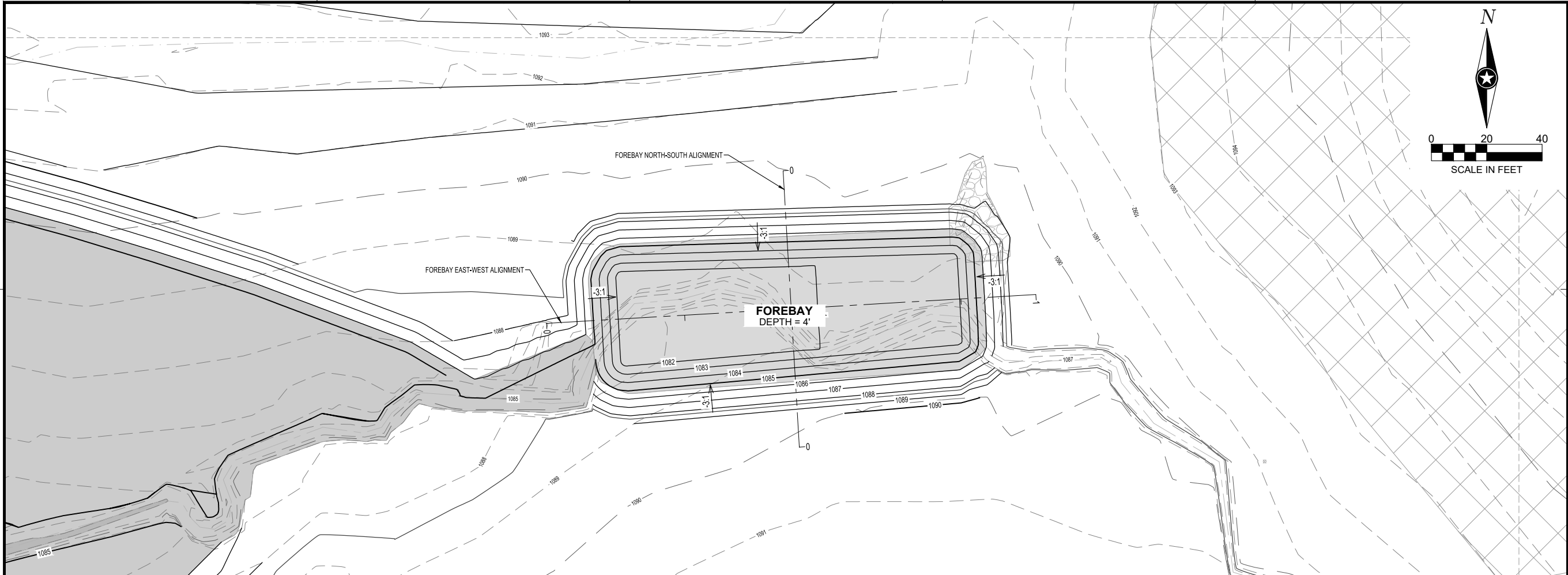
TITLE

**NORTH TILE
INTERCEPT
PROFILE**

SHEET

C3-33

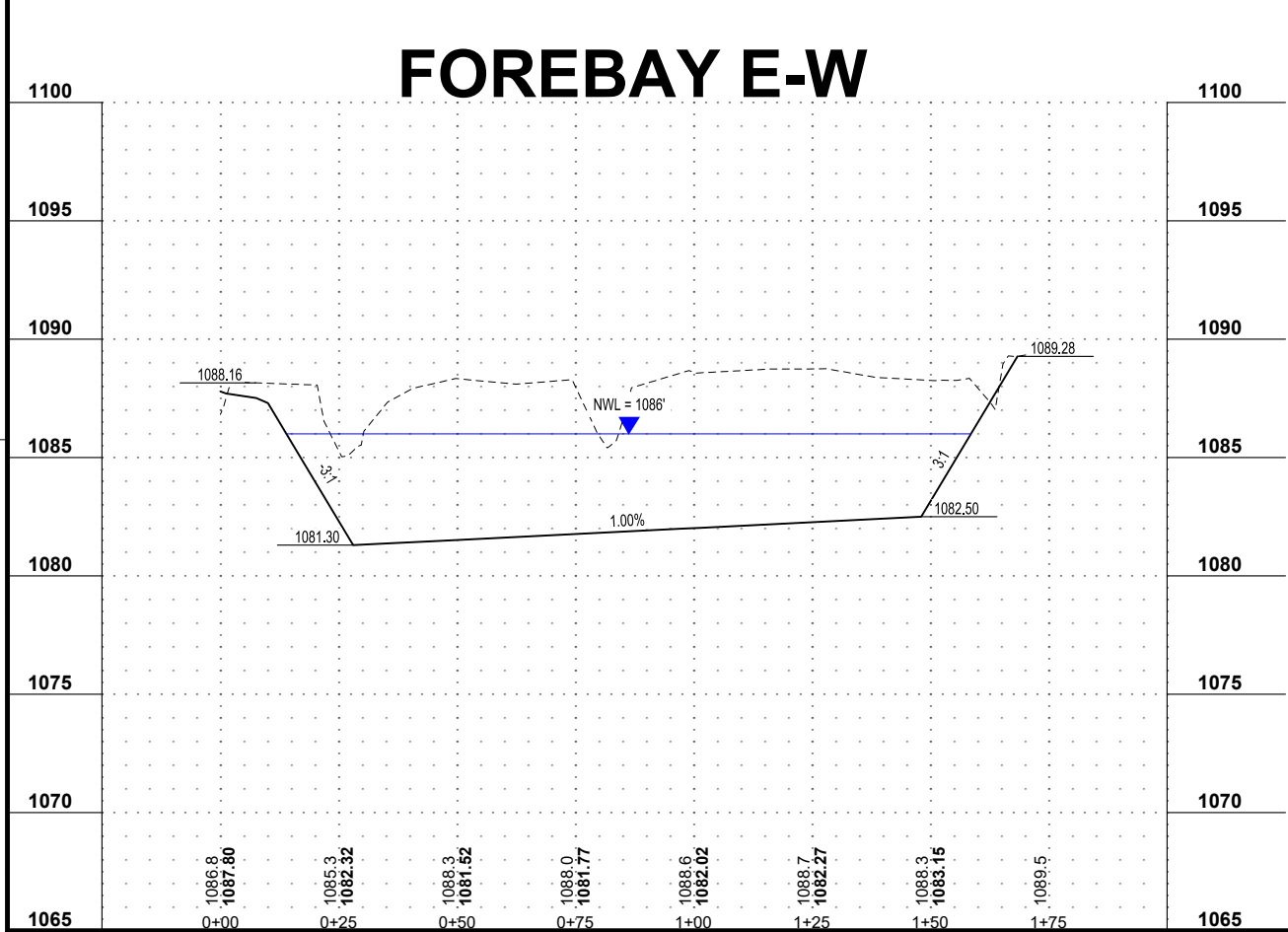




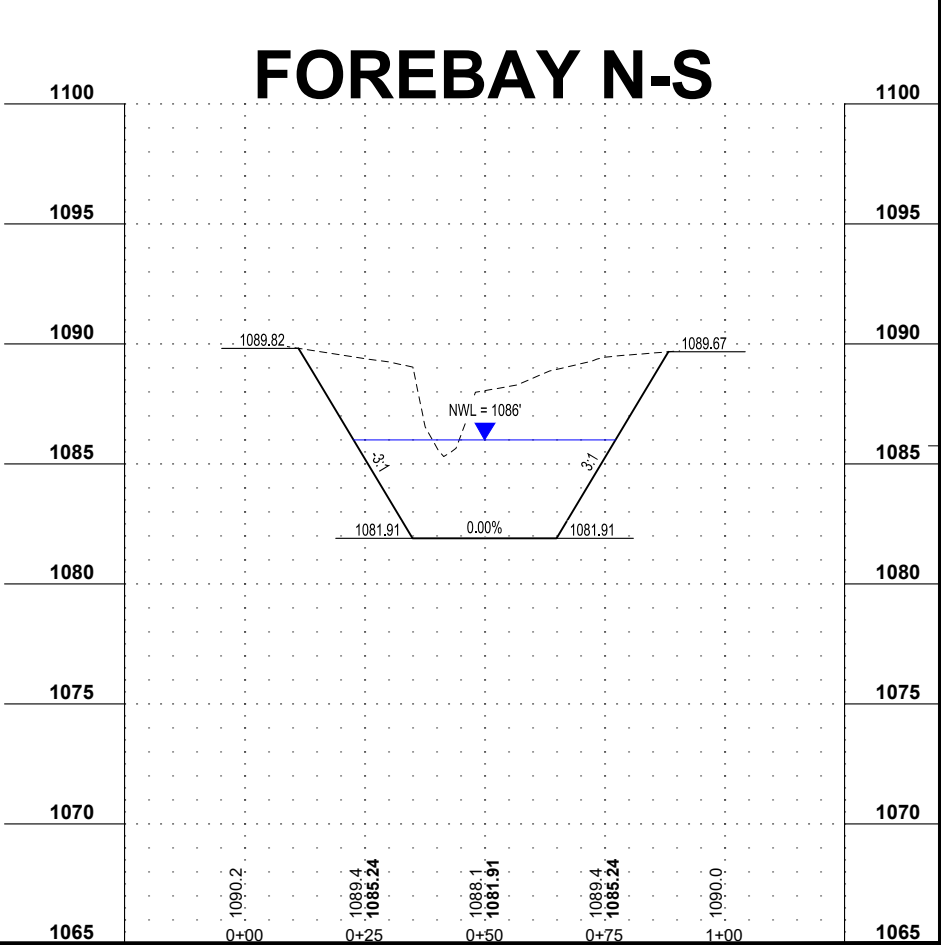
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PROFILE VIEW LEGEND	
NOTE: AS VIEWED IN THE DIRECTION OF INCREASING STATION	
---	EXISTING GROUND
---	PROPOSED GROUND
XXXX	EXISTING GROUND
XXXXX	PROPOSED GROUND



PROJECT

IDALS
FLO971628B
NUTRIENT
REDUCTION WQI
WETLAND

FLOYD COUNTY

IOWA

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO. 23-30398

FILE NAME 30398-C4-GRADE-XSECTIONS

DRAWN BY OBO

DESIGNED BY SDP/JJJ

REVIEWED BY SDP

ORIGINAL ISSUE DATE 11/1/23

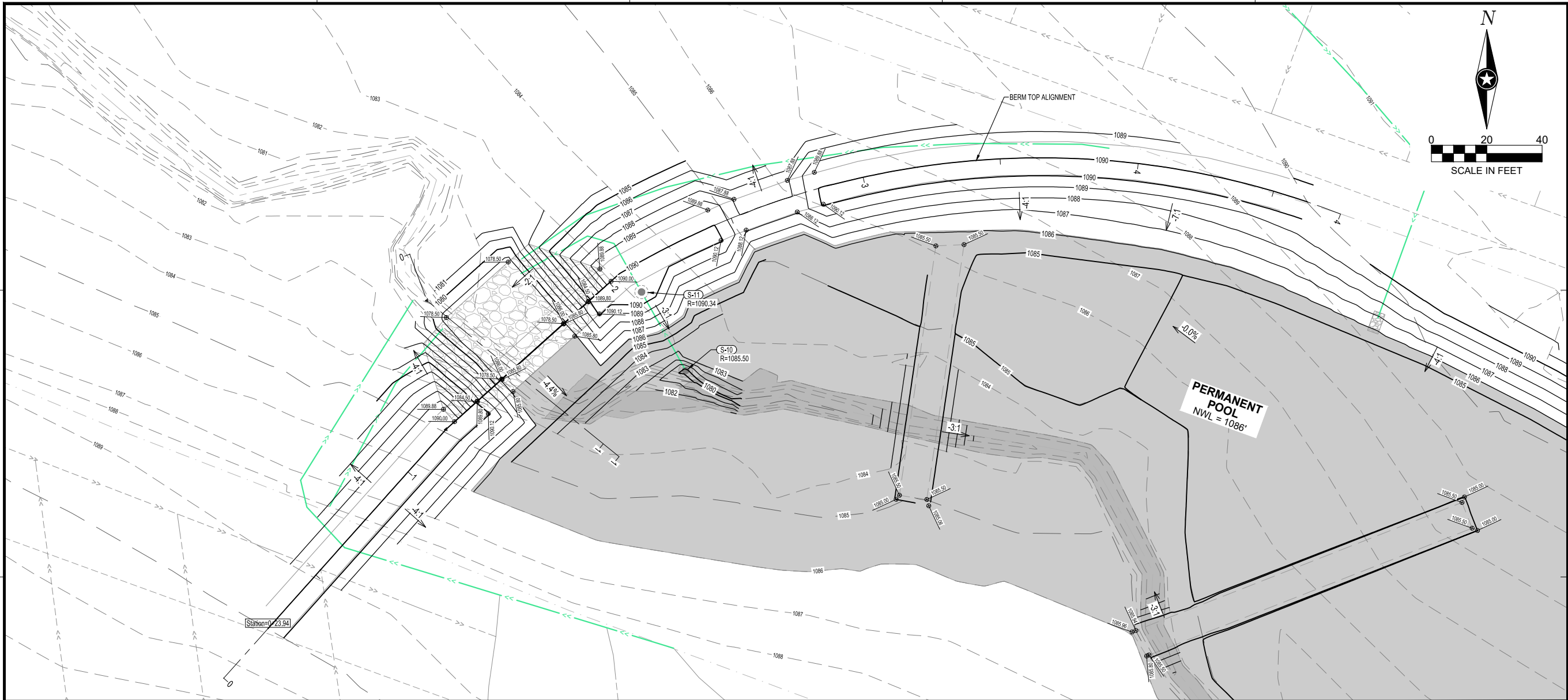
CLIENT PROJECT NO. -

TITLE

FOREBAY DETAILED
GRADING

SHEET

C4-21



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FLOYD COUNTY IOWA

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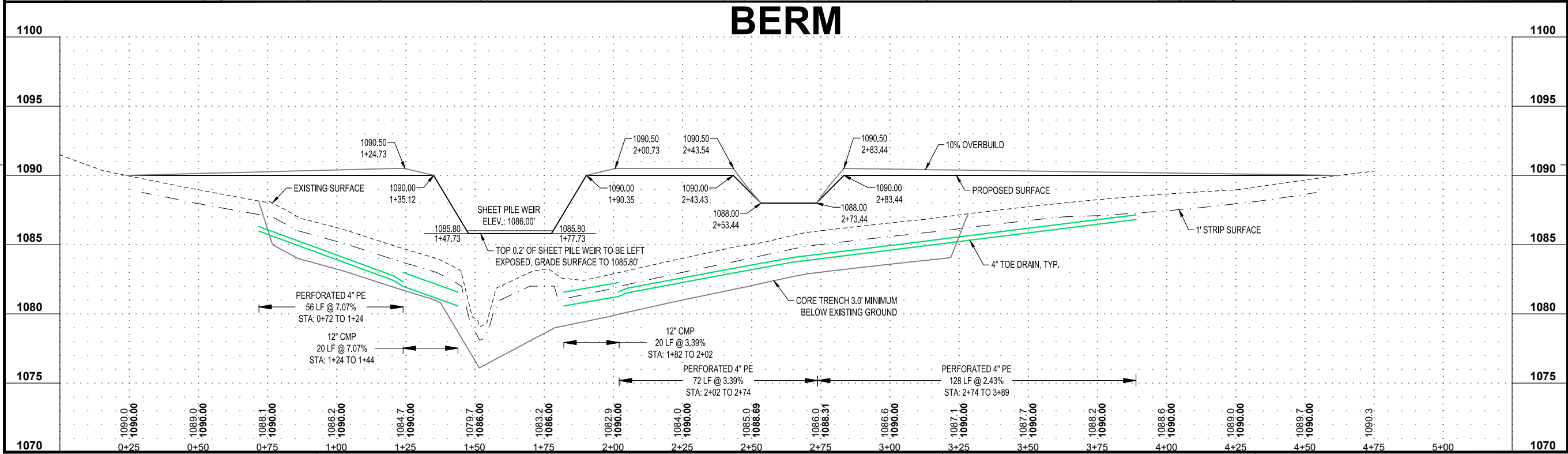
PROJECT NO.	23-30398
FILE NAME	30398-C4-GRADE-XSECTIONS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
CLIENT PROJECT NO.	-

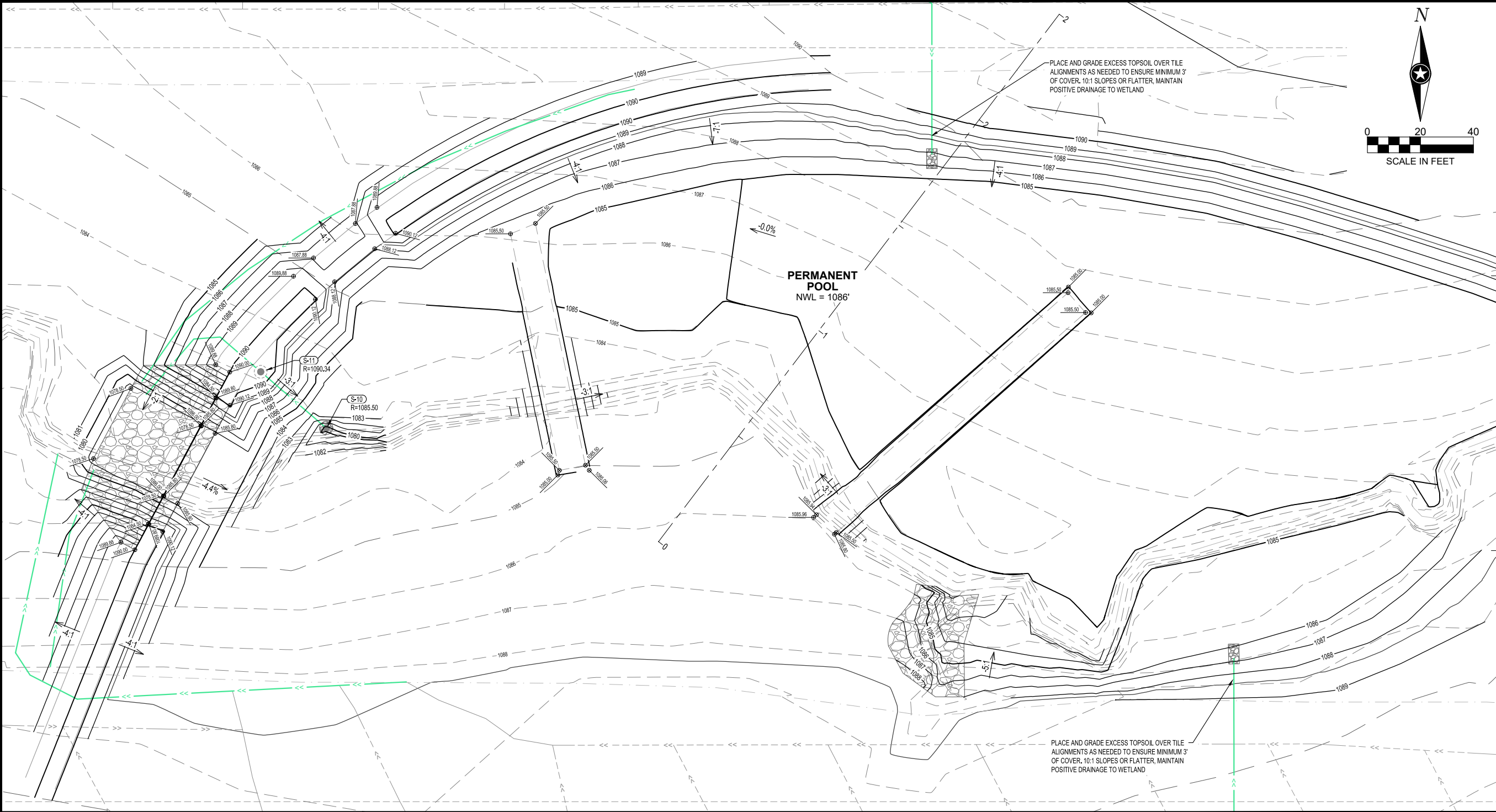
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BERM PROFILE

SHEET

C4-22





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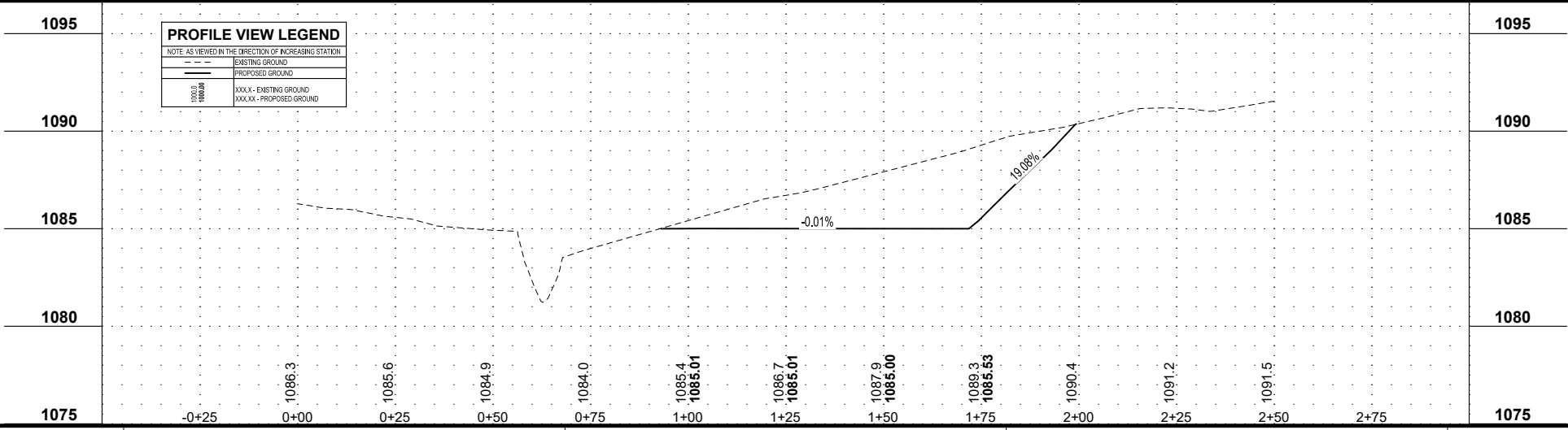
PROJECT NO.	23-30398
FILE NAME	30398-C4-GRADE-XSECTIONS
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/1/2023
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TITLE

**POOL CROSS
SECTION**

SHEET

C4-23



EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	RIP RAP
	SILT FENCE
	STORM DRAIN INLET PROTECTION
	WATTLE
	STABILIZED CONSTRUCTION EXIT
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MAJOR INTERVAL)

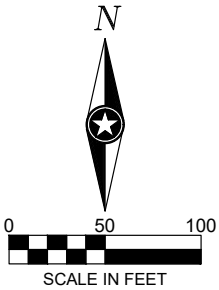
PERIMETER CONTROL CAN BE SILT FENCE OR WATTLE.

NOTE: EROSION CONTROL PLAN COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS PLAN INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.

TURF RESTORATION LEGEND

SYMBOL	DESCRIPTION	UNITS	QUANTITY
	STRUCTURAL SEEDING	AC	0.70
	BUFFER SEEDING	AC	6.39

THE QUANTITIES SHOWN ARE TOTAL FOR THE ENTIRE PROJECT NOT SPECIFIC TO THIS SHEET.



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8-14-2026	MOVED DRIVEWAY	JAC

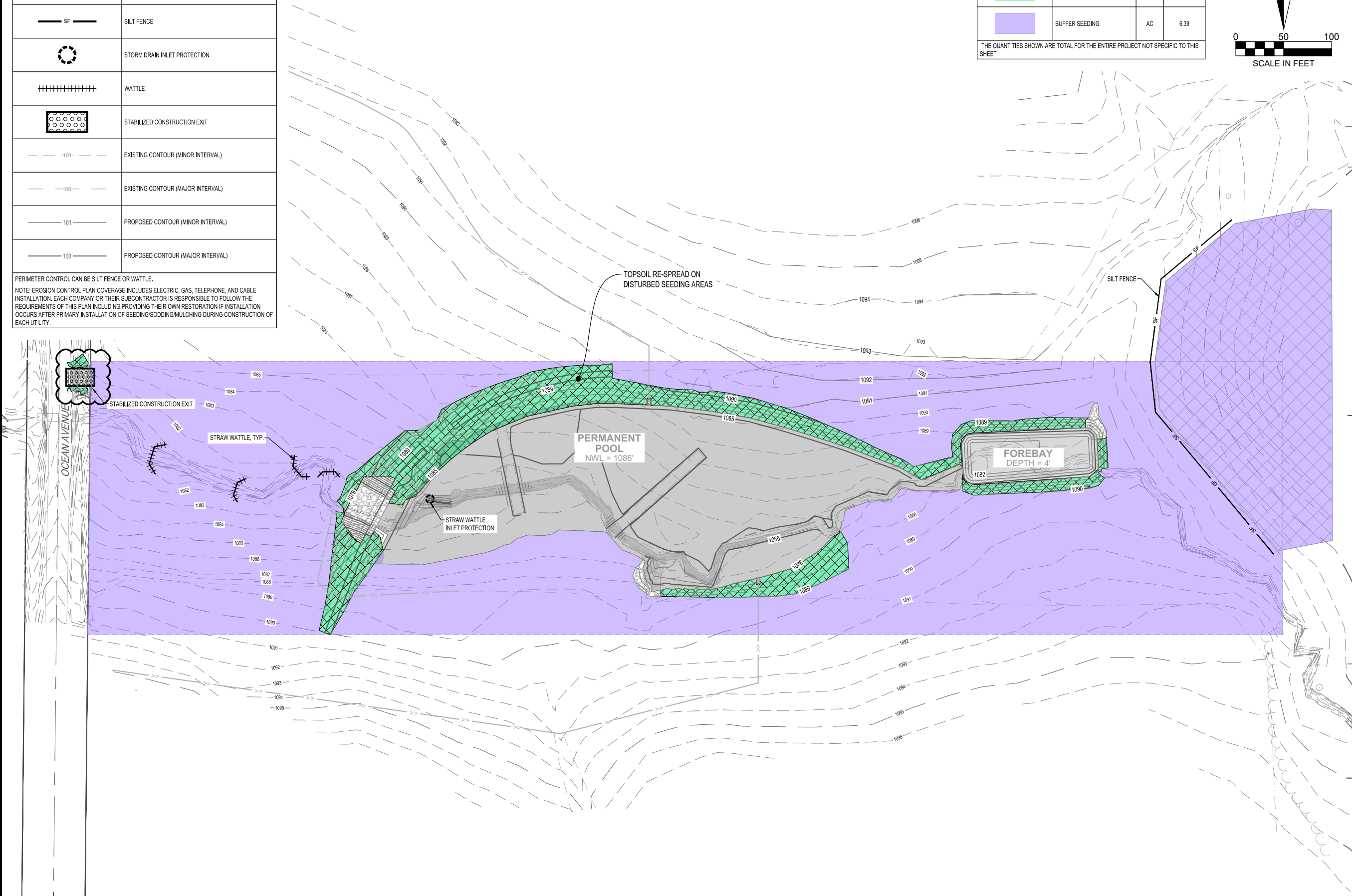
PROJECT NO.	23-30398
FILE NAME	30398-C5-LAND
DRAWN BY	OBO
DESIGNED BY	SDP/JJJ
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	8-14-2026
CLIENT PROJECT NO.	-

TITLE

**SITE RESTORATION
PLAN**

SHEET

C5-10



FLO971628B COUNTY WETLAND PROJECT
FLO971628B - BID NO. 26-07
PREBID MEETING
August 11, 2026 - 10:00 AM
City of Floyd City Park, 902 Pearl St, Floyd

Opening date and time: Wednesday, August 26, 2026, beginning at 3:00 PM

Tracy Blocker, Division of Soil Conservation and Water Quality (Division) opened the meeting.

A) Introductions

Mr. Stricker, landowner	Sara Smith, IDALS	Chris Wicks, Cedar Ridge Precision
Kurt Hoeft, WFS	Megan Volkens, IDALS	Jim Rausch, Rausch Construction
Owen , ISG	Tracy Blocker, IDALS	Brent Mehmert, Mehmert Tiling
Emily , ISG	Joe Heims, NRCS	

- There are three projects being bid at this time:
 1. This one
 2. One in Calhoun
 3. One in Hardin
- This wetland project is funded as part of the Water Quality Initiative that is being used to help implement the Iowa Nutrient Reduction Strategy.

A) Bidding

1. Time of Completion:

- a) All work except for seeding: June 15, 2027
- b) STRUCTURE seeding: 09/15/2027
- c) BUFFER seeding: 06/30/2027
- d) Note seedings must be done in the seeding window as specified in the Construction Specification IA-006 Seeding and Mulching for Protective Cover.

2. Liquidated Damages:

- a) There are liquidated damages provisions in the contract, absent a No-Fault Extension.
- b) All work except for seeding - damages **\$175 per day**
- c) Structure seeding - damages **\$125 per day**
- d) Buffer seeding - damages **\$125 per day**

3. Taxes:

No sales tax for materials purchased

4. Measurement and Payment:

- a) Measuring & Calculating: The specifications describe the method to be used in measuring and calculating the payment quantities for each work item
- b) Payments will be made on the basis of monthly estimates from the engineer
- c) Mobilization will be paid as a percentage of the lump-sum bid amount, prorated based on the percentage of work completed.
- d) Materials stored on site; 97% of cost with invoice
- e) Payments will be made in amounts equal to ninety-seven percent (97%) of the value of work completed. (In most cases)

5. Method of Bidding:

UNIT PRICE:

- a) This is a unit price contract
- b) Bidders shall submit unit price for each bid item covered by the specifications. Prices shall cover complete work and include all costs incidental thereto unless otherwise indicated
- c) The base bid includes all items 1 through 27
- d) A separate Document CC Schedule of Prices WORKSHEET was provided
- e) Any questions that should be considered as part of an addendum must be submitted in writing by August 18, 2026 by 3:00 PM
- f) The Division will make every attempt to issue any necessary addenda no later than the day after the last date for questions. If an addendum is sent, you must acknowledge that you received it on page 2 Document CC Proposal-Acknowledgement-Affidavit
- g) Scope of Work: If the Scope of Work changes, this will be addressed with an Amendment or Change Order

6. Submission of Bids, Proposal-Acknowledgement-Affidavit and Bid Security:

- a) Bids must be submitted within IMPACS no later than 3:00 PM 08/26/2026
https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=DASlowa&tab=PHX_NA_V_SourcingOpenForBid&tmstmp=1786368048168
- b) Upload under Vendor Attachments
 - 1. Proposal-Acknowledgement-Affidavit (Document CC pages 1-3) and must be signed by a legally authorized representative of the Bidder, notarized with stamp and Addendum acknowledged
 - 2. Bid Bond (Document EE, including POA)
 - 3. Certified checks must be delivered to IDALS 3 hours in advance of the opening.
- c) If forms are not accurately completed, this shall prevent the reading of that Bidder's bid.
- d) Multiple bids: If you submit bids for multiple projects but do not wish to accept all projects for which you are the apparent low bidder, you must notify Tracy Blocker by email at tracy.blocker@iowaagriculture.gov **at least 30 minutes prior to bid closing** and follow up with a phone call.

NOTE: If an addendum is issued after you enter submit your bid, IMPACS will withdraw your bid.

- e) All Water Resources wetland bids closing that day will be opened beginning at 3:00 PM
- f) To hear the bids read aloud dial in by phone +1 469-998-7627,352050218#
- g) Bids may NOT be mailed nor hand delivered

7. Evaluation of bids and award of Construction Contract:

- a) Nutrient Reduction Wetland Project shall be awarded to the lowest, responsible, responsive bidder as determined by the Division.

- b) In evaluating the bids:
 - 1. alternates,
 - 2. bid price,
 - 3. experience,
 - 4. contracts in default,
 - 5. responsibility of the Bidder,
 - 6. and similar factors in determining which bid it deems to be in the best interest of the Division for the project
 - 7. Bid tabulations for this Nutrient Reduction Wetland Project will be prepared the week following the Bid Opening and distributed to all Bidders and plan holders

8. Bidder's Qualifications:

All Bidders shall meet the following qualifications:

- 1. Contractors are required to be registered with the Iowa Department of Inspection, Appeals, and Licensing
- 2. Bidders shall submit a statement of Bidder's qualifications:
 - a) including experience,
 - b) contracts that are in default,
 - c) available equipment,
 - d) personnel,
 - e) and financial ability to perform the work (Section 2 of Document BB)

9. Execution of Contract:

- 1. Within fourteen (14) calendar days from the date of receipt of the Notice-of-Award, the party to whom the Project is awarded shall be required to:
 - ✓ execute the Contract and if applicable a W9 (optional direct deposit)
 - ✓ obtain the appropriate insurance coverage and Performance/Payment Bond
 - ✓ provide their Iowa Department of Inspection, Appeals, and Licensing Public Registration Number
 - ✓ and submit the Construction Progress Schedule (Document JJ)

Failure of the Bidder to execute the Contract, the Division may, at its option, consider the Bidder in default, in which case the bid security accompanying the bid shall become the property of the Division.

- 3. The Division, within fourteen (14) days of receipt of an acceptable and properly executed
 - a) Performance/Payment Bond,
 - b) certification of acceptable insurance coverage,
 - c) and properly executed Contract;shall sign the Contract and return to such party an executed copy of the Contract. Should the Division not execute the Contract within such period, the Contractor may, by submitting written notice, withdraw the signed Contract, effective upon receipt of the notice.
- 4. The Notice-to-Proceed shall be issued within five (5) days of the execution of the Contract by the Division, **provided that the Construction Progress Schedule has been accepted by the Division.**
 - a) May not purchase materials until you receive a Notice to Proceed
 - b) Pre-construction meeting must be held no more than 14 days in advance of construction starting.

10. Questions and Addenda:

- a) Any oral interpretations given shall be valid only if confirmed by written addendum. All interpretation requests should be addressed in writing and received no later than 3:00 PM August, 18 2026.
- b) Questions concerning interpretation or intent of the Plans and Construction Specifications should be directed to:
Spencer Pech: spencer.pech@isginc.com with ISG Inc and must copy
Tracy Blocker: tracy.Blocker@iowaagriculture.gov with the Division.
- c) All other questions concerning the Contract Documents should be addressed to Tracy Blocker, Division: 515 344-6279 or tracy.Blocker@iowaagriculture.gov.

The Division reserves the right to revise or amend the Contract Documents prior to the date set forth for receipt of bids. Such revisions and amendments, if any, shall be announced by an addendum or addenda to the Contract Documents.

- Copies of such addenda shall be furnished to all plan holders.
- Bidders are required to acknowledge receipt of any addenda by listing such addenda in the Proposal (Document CC).

B) Engineer's Discussion:

Notes

1. MINUTES: Tracy will send minutes out as soon as she can, but there are other pre-bid meetings this week (so it probably won't be tomorrow)
2. BIDDING: Tracy and Sara covered things from IDALS bidding process perspective
3. CDs: Owen ran thru a page-turn of the plans, and touched on specs
 - a. Emphasized that bidders should take a detailed look through the plans, especially ERI, and Spec book before bidding
 - b. Ran thru plan sheets:
 - i. Construction Notes
 1. Discussed Class E Riprap, Stripping + Topsoiling depths
 - ii. IOW/Inspections/ERI
 1. Mentioned contractor to provide Engineer minimum 48 hours' notice prior to installation of items requiring inspection
 2. Ensured to mention seeding windows, items incidental to tile work like caps/fittings (and other items that are incidental to other IOWs), GFM material req's
 - iii. Details
 1. Especially related to embankments, sheet pile weir (including the depth log), and WCS Assembly
 2. NOTE: IDALS mentioned they provide lock for stoplog storage
 3. NOTE: Update sheet pile shading so people can read the elevations
 - iv. All the remaining plan sheets

- v. Specs were not run through in detail, but Owen and Sara emphasized the importance of them
 - 1. Some specs discussed were
 - i. Pollution Control (Ch 5, regarding silt fence + wattle, removal/disposal, sediment removal/disposal)
 - ii. Seeding (Ch 6, seeding windows and requirements)
 - iii. Mobilization/Demob. (Ch 8, for sign)
 - iv. Removal of Water (Ch 11)
 - c. Spoil wasting area was discussed
 - i. Owen mentioned the RR ROW and that no work should be done in it. ISG will stake prior to construction commencing
- 4. LANDOWNER: Jerad's input:
 - a. Crop (beans) should be out mid-October
 - b. Jerad asked to move driveway from S to N of waterway for access to WCS
- 5. CONCLUSION: There were no questions at the conclusion of the meeting
- 6. SITE VISIT: IDALS + ISG + 2/3 Contractors + Jerad were there
 - a. Fence removal - Jerad said there might be more fence on N side of site? Didn't get a lot of info there
 - b. Construction access - discussed likelihood of needing temporary drive on S side and/or low water crossing
 - c. Generally discussed things that can be covered in pre-con

Revisions

- DRIVEWAY: Move driveway to N of waterway (this was Jerad's request--his reasoning was for better access to WCS and stoplog storage)
 - This is less ideal from construction standpoint, regarding staging and access (probably have to put in temp water crossing)
 - There is at least one existing tile outlet to be mindful of here
- ANTI SEEP COLLAR: See sheet C3-34, we currently have anti-seep collar shown on upstream side of WCS--needs to be changed to downstream
- SHEET PILE DETAIL: See sheet C0-27, update shading to allow better legibility of elevations

Division of Soil Conservation & Water Quality - Water Resources Bureau
as of

08/21/2026

Pre-Bid held 08/11/26

Plan Holders List for Bid 26-07 26-08 26-09
Project ID Flo971628B & Cal892022C & Har892022C
Bid Opening August 26, 2026 @ 3:00 PM

	Name	Email	Company	Street Address	City	State	Zip code	Phone
26-07	Flo971628B							
PB	Chris Wicks	CedarRidgePrecision@gmail.com	Cedar Ridge Precision (CRP)		Nashua	IA		319-415-8494
PB	Jim Rausch	Rausch Construction	jim@rauschconstinc.com	2725 HWY 24	Fort Atkinson	IA	52144	563-419-1775
PB	Brent Mehmert	brent@mehmerttiling.biz	Mehmert Tiling	8635 HWY 9	Limesprings	IA	52155	563-547-5115
PH	Eric Deters	edeters@melleninc.com	Mellen and Associates	3404 S 11th ST	CO BLUFFS	IA	51501	712-322-9333
PH	Lacey	quotes@coleexcavating.com	Cole Excavating, LLC					641.823.4700
PH	Dalton Kinzel	dalton.kinzel@coreandmain.com	Core & Main	2500 SE Enterprise Dr	Grimes	IA	50111	515-259-8042

Division of Soil Conservation & Water Quality - Water Resources Bureau
as of

08/21/2026

Pre-Bid held 08/12/26

Plan Holders List for Bid 26-07 26-08 26-09
Project ID Flo971628B & Cal892022C & Har892022C
Bid Opening August 26, 2026 @ 3:00 PM

	Name	Email	Company	Street Address	City	State	Zip code	Phone
26-08	Cal892022C							
PB	Ty Fittje	constructionriseabove@gmail.com	Rise Above Construction					641-529-9671
PH	Jacob Franz	jacob.franz@metalculverts.com	Metal Culverts Inc					573-681-2707
PH	Eric Deters	edeters@melleninc.com	Mellen and Associates	3404 S 11th ST	CO BLUFFS	IA	51501	712-322-9333
PH	Lacey	quotes@coleexcavating.com	Cole Excavating, LLC					641.823.4700
PH	Rob Rasmussen	Robert.Rasmussen@coreandmain.com	Core & Main	2500 SE Enterprise Dr	Grimes	IA	50111	515-259-8056

Division of Soil Conservation & Water Quality - Water Resources Bureau
as of

08/21/2026

Pre-Bid held 08/13/26

Plan Holders List for Bid 26-07 26-08 26-09
Project ID Flo971628B & Cal892022C & Har892022C
Bid Opening August 26, 2026 @ 3:00 PM

	Name	Email	Company	Street Address	City	State	Zip code	Phone
26-09	Har892022C							
PB	Evan Hurd	evan.hurd@hls-co.com	Heritage Land Solutions (Iron Heritage Properites LLC	302 Broad St	Story City	IA	50248	515.520.0711
PB	Will Halstead	will.halstead@hls-co.com	Heritage Land Solutions (Iron Heritage Properites LLC	302 Broad St	Story City	IA	50248	515.954.0187
PB	Brett Schipper	brett@mcdowellandsons.com	McDowell & Sons Contractors, Inc.					641-640-2216
PB	Casey Staley	staley146@hotmail.com	Weidemann Inc	105 Tracy St	Dows	IA	50071	641-373-2269
PB	Blair Weidemann	blairweidemann@yahoo.com	Weidemann Inc	104 Tracy St	Dows	IA	50071	641-425-6956
PH	Lacey	quotes@coleexcavating.com	Cole Excavating, LLC					641.823.4700
PH	Darin Eastvold	bids@larsoncontracting.com	Larson Contracting Central LLC	508 W Main St PO Box 7	Lake Mills	IA	50450	406.890.4211
PH	Dustin Wallis	dustin.wallis@armodus.com	Armodus	PO Box 1	Mondamin	IA	51557	402-669-1898
PH	Dalton Kinzel	dalton.kinzel@coreandmain.com	Core & Main	2500 SE Enterprise Dr	Grimes	IA	50111	515-259-8042

KEY

- X on plan holders list, did **NOT** submit bid
- Y on plan holders list, submitted bid
- NP not on plan holders list, submitted bid
- PB attended pre-bid
- PH on plan holders list
- IDALS staff
- PR Plan Room
- E Engineer of Record
- tab Requested bid tab