ADDENDUM NO. 1

TO: ALL BIDDERS OF RECORD

PROJECT: Upper Red Rock Lake Winter Grayling Habitat Project

FWP PROJECT #: 23-07

DATE: 7/26/2023

FROM: Montana Fish, Wildlife & Parks, Jacob Mangum

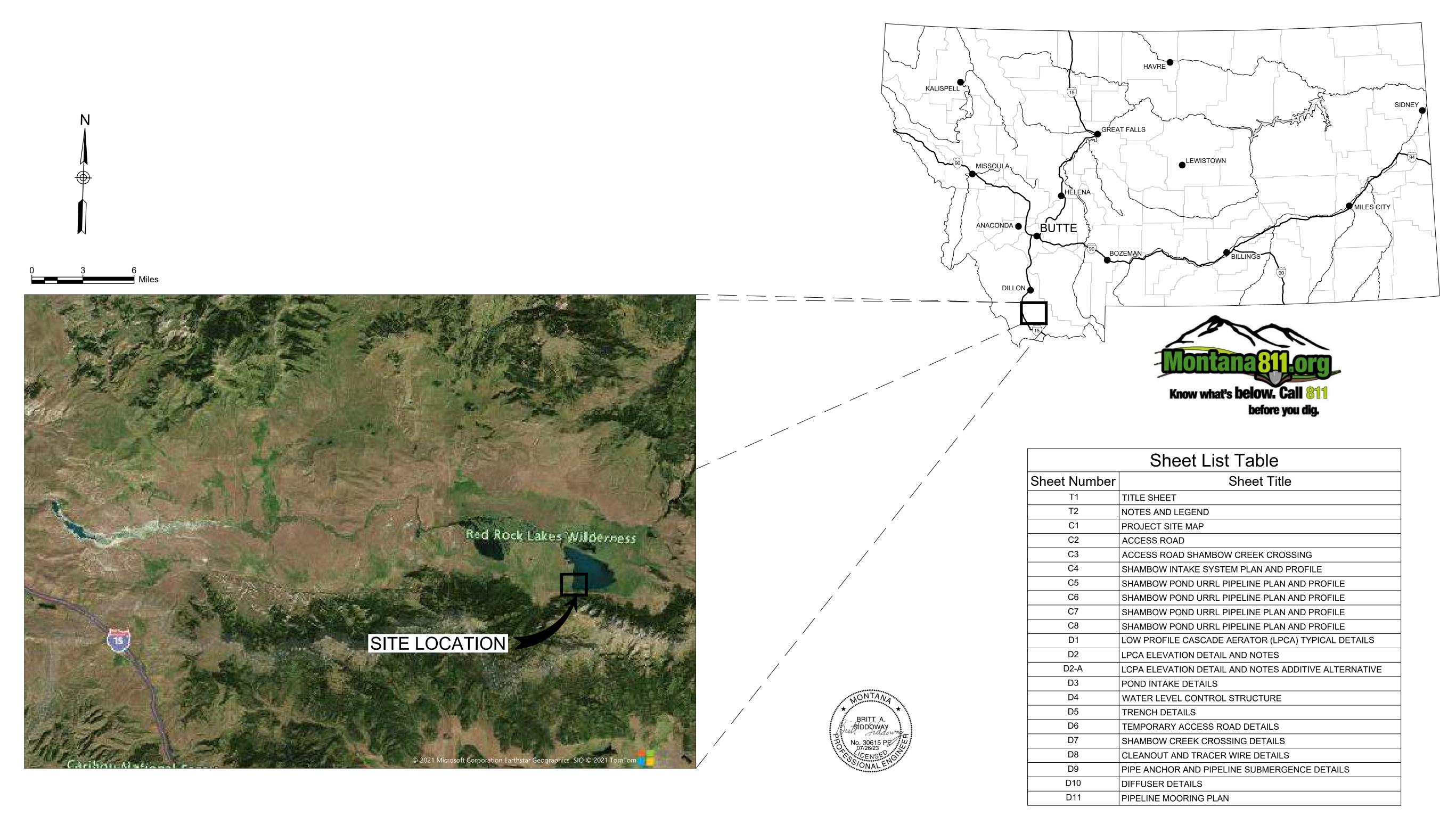
Acknowledge receipt of this addendum by inserting its number and date in the Proposal Form and on the Bid Envelope. Failure to do so may subject bidder to disqualification.

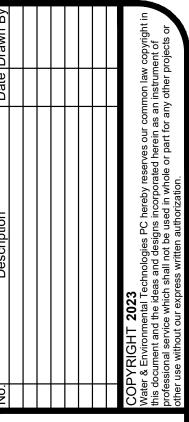
This Addendum forms a part of the Contract Documents. Clarification and/or modifications area as follows:

- Corrections to the Bid Proposal (see Proposal Addendum 1).
- Corrections to the Plan Set (see Plan Set Addendum 1).
 - o Includes changes to Aerials, Sheet D2-A, and base course clarification.
- Q&A from pre-bid and suppliers (see Q&A Addendum 1).

END OF ADDENDUM NO. 1

UPPER RED ROCK LAKE (URRL) WINTER GRAYLING HABITAT PIPELINE RED ROCK LAKES NATIONAL WILDLIFE REFUGE BEAVERHEAD COUNTY, MT





NOOKNOUM.

Water & Environmental
TECHNOLOGIES
118 East 7th Street
Anaconda, MT 59711
(406) 563-7476
waterenvtech.com



ITLE SHEET

PROJECT NAME: URRL W

LOCATION: RED ROCK LA

JOB NO: MTFWPM04
DATE: 7/26/23
DRAFTER:
CHECKED BY:

SHEET T

COORDINATE SYSTEM NOTES:

- 1. HORIZONTAL DATUM: MONTANA STATE PLANE NAD83
- 2. VERTICAL DATUM: NAVD88 AS ESTABLISHED BY NGS BENCHMARK PY0620.

133106.81 EASTING: 1380717.80' ELEVATION: 6677.12'

- COORDINATES ARE SHOWN IN UNITS OF INTERNATIONAL FEET UNLESS INDICATED OTHERWISE.
- 4. ADDITIONAL CONTROL AVAILABLE UPON REQUEST TO THE ENGINEER.

SURVEY NOTES:

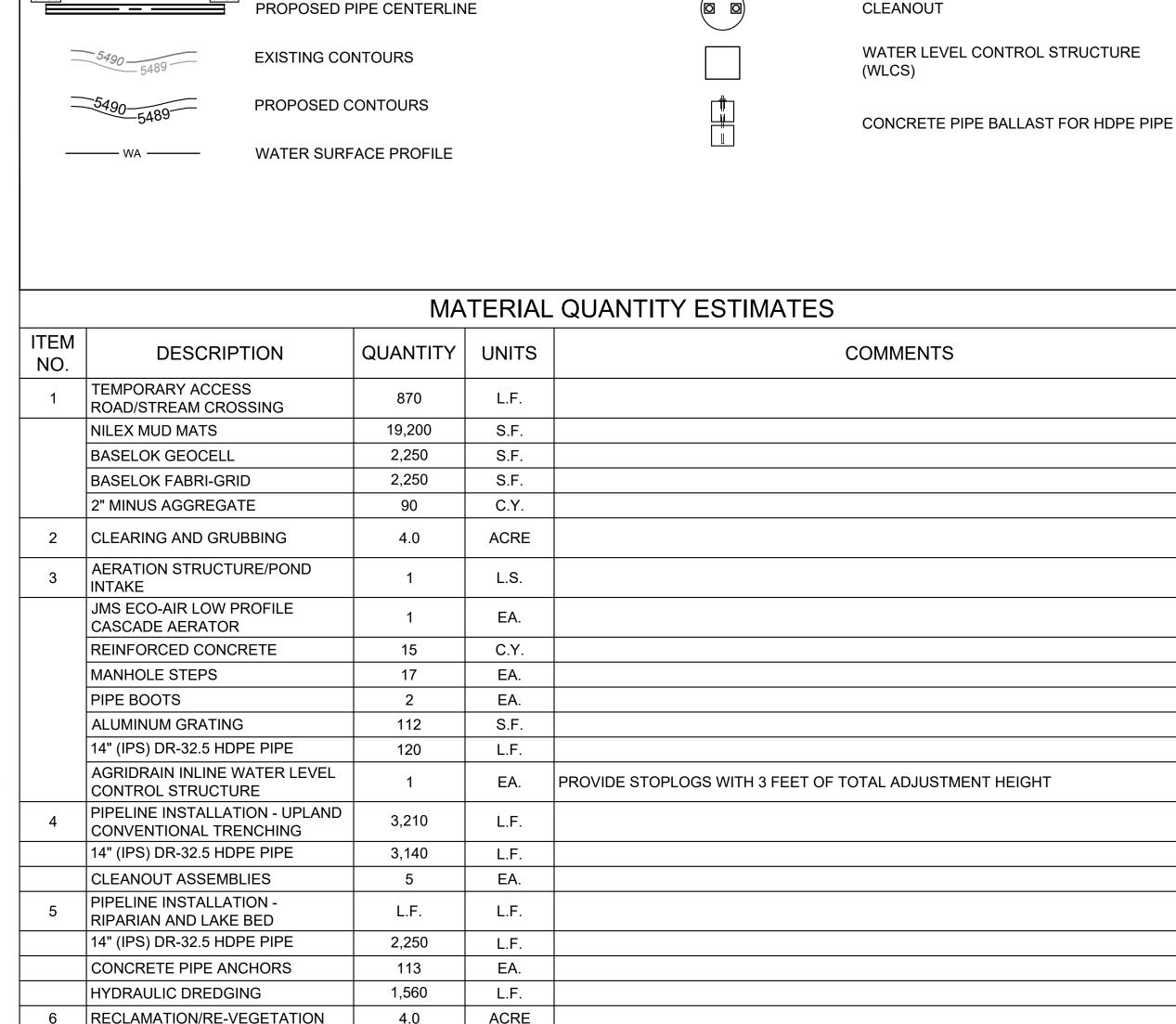
- 1. UTILITIES SHOWN ARE BASED ON AVAILABLE RECORD DRAWINGS AND UTILITIES LOCATED BY ELECTRONIC METHOD IN THE FIELD. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE ACCURACY OF LOCATIONS PROVIDED OR THAT ALL UTILITIES ARE SHOWN. ALL UTILITY LOCATIONS ARE SUBJECT TO THE ACCURACY OF THE LOCATION METHOD, AND SUBJECT TO RELOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES. NO EXCAVATION WAS PERFORMED TO VERIFY UTILITIES. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- NO BOUNDARY SURVEY WAS CONDUCTED AS PART OF THIS PROJECT, ALL BOUNDARY LINES SHOWN WERE APPROXIMATED FROM RECORDS AND/OR MONTANA STATE LIBRARY CADASTRAL FRAMEWORK. BOUNDARY LINES ON THIS MAP DO NOT REPRESENT A LEGAL SURVEY AND SHOULD BE CONSIDERED APPROXIMATE. THESE BOUNDARY LINES ARE TO BE USED FOR GENERAL REFERENCE ONLY. NO LIABILITY IS ASSUMED BY WET FOR THE ACCURACY OF THESE BOUNDARY LINES.

GENERAL NOTES:

- 1. SCALES AND ORIENTATIONS TO NORTH VARY FROM SHEET TO SHEET. REFER TO THE NORTH ARROW AND SCALE BAR FOR SHEET-SPECIFIC SCALES AND NORTH ORIENTATIONS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL UTILITY LOCATES, BOTH PUBLIC AND PRIVATE, AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE PROJECT DRAWINGS AND THE ACTUAL SITE CONDITIONS PRIOR TO COMMENCING THE WORK IN
- 4. THE CONTRACTOR WILL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN A SATISFACTORY MANNER PROVIDING ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
- 5. THE CONTRACTOR WILL PRESERVE ALL PROJECT BENCHMARKS AND CONSTRUCTION STAKES TO THE MAXIMUM EXTENT PRACTICABLE. ANY PROJECT BENCHMARKS OR STAKES
- REQUIRING REPLACEMENT BY THE ENGINEER WILL BE AT THE CONTRACTOR'S EXPENSE 6. THE CONTRACTOR WILL PROVIDE INGRESS AND EGRESS FOR ALL PROPERTY LOCATED WITHIN THE PROJECT SITE.
- 7. THE CONTRACTOR WILL PROVIDE ALL SIGNS, BARRIERS, AND TRAFFIC CONTROL AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD.
- 8. THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS BASED ON MAPPING INFORMATION AND/OR AS-BUILT PLANS MADE AVAILABLE TO THE ENGINEER. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- 9. THE CONTRACTOR WILL CONTACT THE ENGINEER SHOULD IT APPEAR THAT THE WORK TO BE DONE IS NOT SUFFICIENTLY DETAILED BY THESE PLANS AND SPECIFICATIONS.
- 10. THE CONTRACTOR WILL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL ALL SUBMITTALS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION, SUBMITTAL, AND ADHERENCE-TO ANY STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

CONSTRUCTION NOTES:

- 1. THE PROJECT IS LOCATED WITHIN A U.S. FISH AND WILDLIFE SERVICE NATIONAL WILDLIFE REFUGE. CONTRACTOR MUST COMPLY STRICTLY WITH ALL SITE REQUIREMENTS AND PERMIT CONDITIONS.
- 2. ALL GROUNDWATER AND/OR SURFACE WATER ELEVATIONS INDICATED ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING ANY SURFACE OR GROUND WATER CONDITIONS WITHIN THE PROJECT SITE. THIS INCLUDES BUT IS NOT LIMITED TO: GROUNDWATER ENCOUNTERED IN EXCAVATIONS, PIPELINES INSTALLED IN WATER BODIES, AND STORMWATER MANAGEMENT WITHIN THE PROJECT AREA. MANAGMENT OF SURFACE WATER AND GROUND WATER IS INCIDENTAL TO THE PROJECT, AND NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS. LABOR. AND INCIDENTALS NEEDED TO MEET THIS REQUIREMENT
- CONTRACTOR MUST COMPLY WITH THE INSTALLATION PROCEDURES DETAILED IN CHAPTER 10- MARINE INSTALLATIONS OF THE "HANDBOOK OF POLYETHYLENE PIPE" SECOND EDITION (PLASTIC PIPE INSTITUTE).
- 4. IN-SITU SOILS ARE SLIGHTLY TO MODERATELY CORROSIVE TO CONCRETE. ALL CONCRETE SHALL CONTAIN SUFFICIENT CLASS V FLY-ASH FOR SULFATE-RESISTANT CONCRETE.
- 5. SOILS IN RIPARIAN AREAS ARE SOFT AND ARE COMPRISED OF LOOSE ORGANICS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS EQUIPMENT SUCH AS AIRBOAT
- 6. EXCAVATOR OR AMPHIBIOUS DREDGER MUST BE USED WHEN TRENCHING IN RIPARIAN AREAS. EXCAVATORS MUST BE OUTFITTED WITH SWAMP-BUGGY OR APPROVED EQUAL
- UNDERCARRIAGES TO PROVIDE AN AMPHIBIOUS PLATFORM FOR TRENCHING IN RIPARIAN AREAS.
- IT IS RECOMMENDED THAT THE CONTRACTOR USE DREDGE ATTACHMENT FOR TRENCHING IN RIPARIAN AREAS. EDDYPUMP CORPORATION EXCAVATOR DREDGE PUMP OR EQUAL. MACHINE CONTROLS WILL BE REQUIRED FOR TRENCHING IN RIPARIAN AREAS. COORDINATE WITH ENGINEER TO ENSURE MACHINE CONTROLS ARE CALIBRATED TO PROJECT
- CONTROL SYSTEM (SEE SURVEY NOTES).
- 9. PROVIDE SUITABLE COMPACTION EQUIPMENT FOR BACKFILLING OF TRENCHES IN NON-RIPARIAN AREAS. WHERE IN-SITU SOILS ARE USED FOR PIPE BEDDING, ENSURE MATERIALS MEET PROJECT SPECIFICATIONS.
- 10. WHEN BACKFILLING STRUCTURES, COMPACT BACKFILL TO 95% OF MAX. DRY DENSITY (ASTM D698).
- 11. CONTRACTOR TO PROVIDE ADEQUATE SHORING PLAN FOR EXCAVATIONS EXCEEDING 8 FT DEEP. SUBMIT ALL EXCAVATION AND SHORING PLANS TO THE ENGINEER FOR APPROVAL.
- 12. ALL HDPE PIPE MATERIAL, FITTINGS, AND JOINTS SHALL BE PE4710 RESIN.
- 13. CONTRACTOR TO COORDINATE WITH PIPE MANUFACTURER FOR JOINING OF PIPE/FITTINGS WHEN PIPE AND FITTINGS OF NON-EQUAL PIPE DR.
- 14. USE STAINLESS STEEL MATERIALS FOR ANY NON-EPOXY-COATED METAL COMING INTO CONTACT WITH WATER OR SOILS.
- 15. RESTORE ALL DISTURBED SITES, INCLUDING STAGING AREAS, TO PRE-CONSTRUCTION CONDITIONS. ALL RESTORED AREAS MUST BE RESTORED TO AND ELEVATION OF ± 0.5 FT OF
- 16. COORDINATE WITH OWNER ON SEED MIX SPECIFICATIONS FOR RE-VEGETATION OF DISTURBED AREAS IF A SEED MIX IS NOT SPECIFIED.



LEGEND

PROPOSED ROAD CENTERLINE

LOW PROFILE CASCADE AERATOR

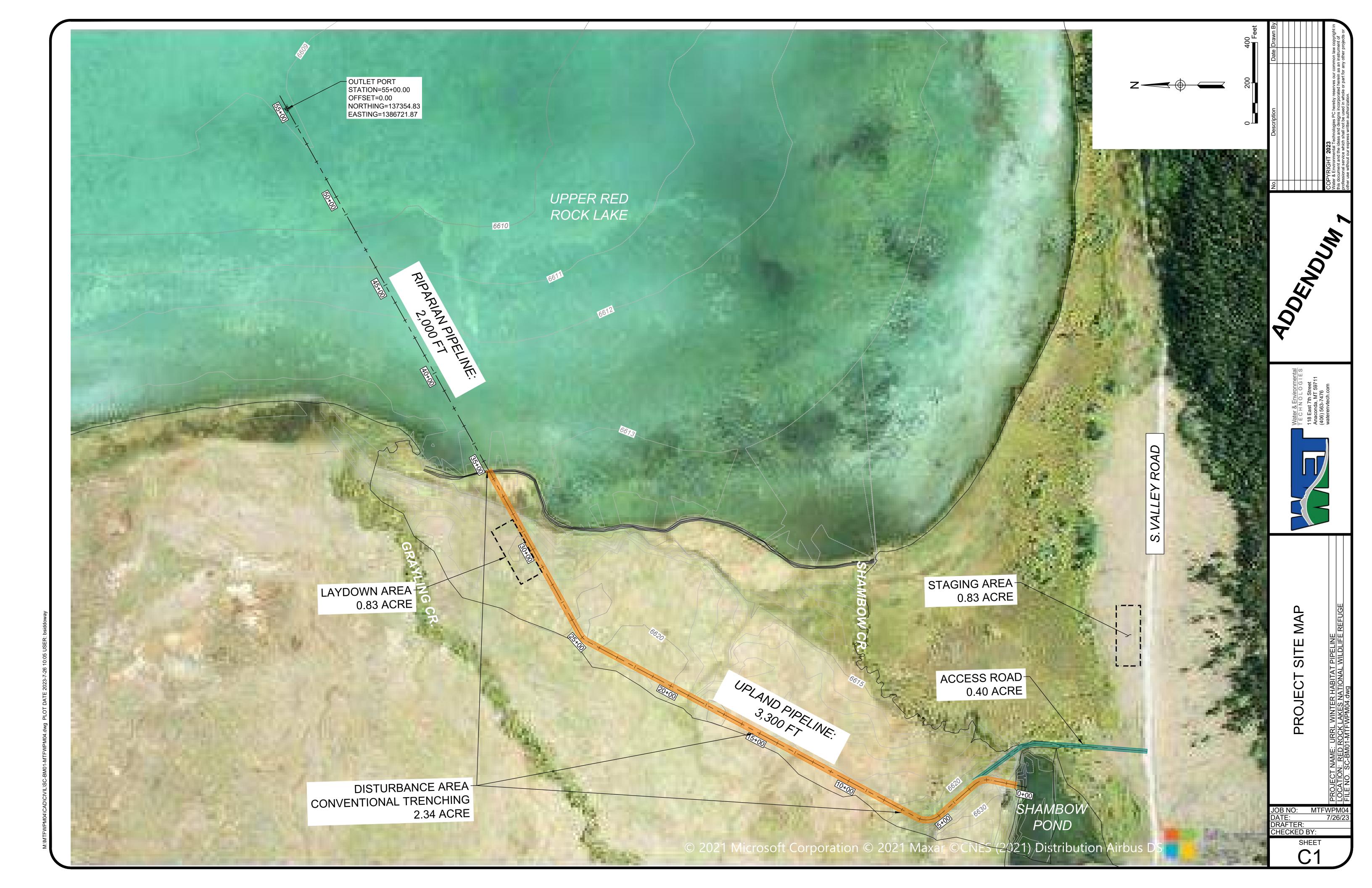
NOTE:

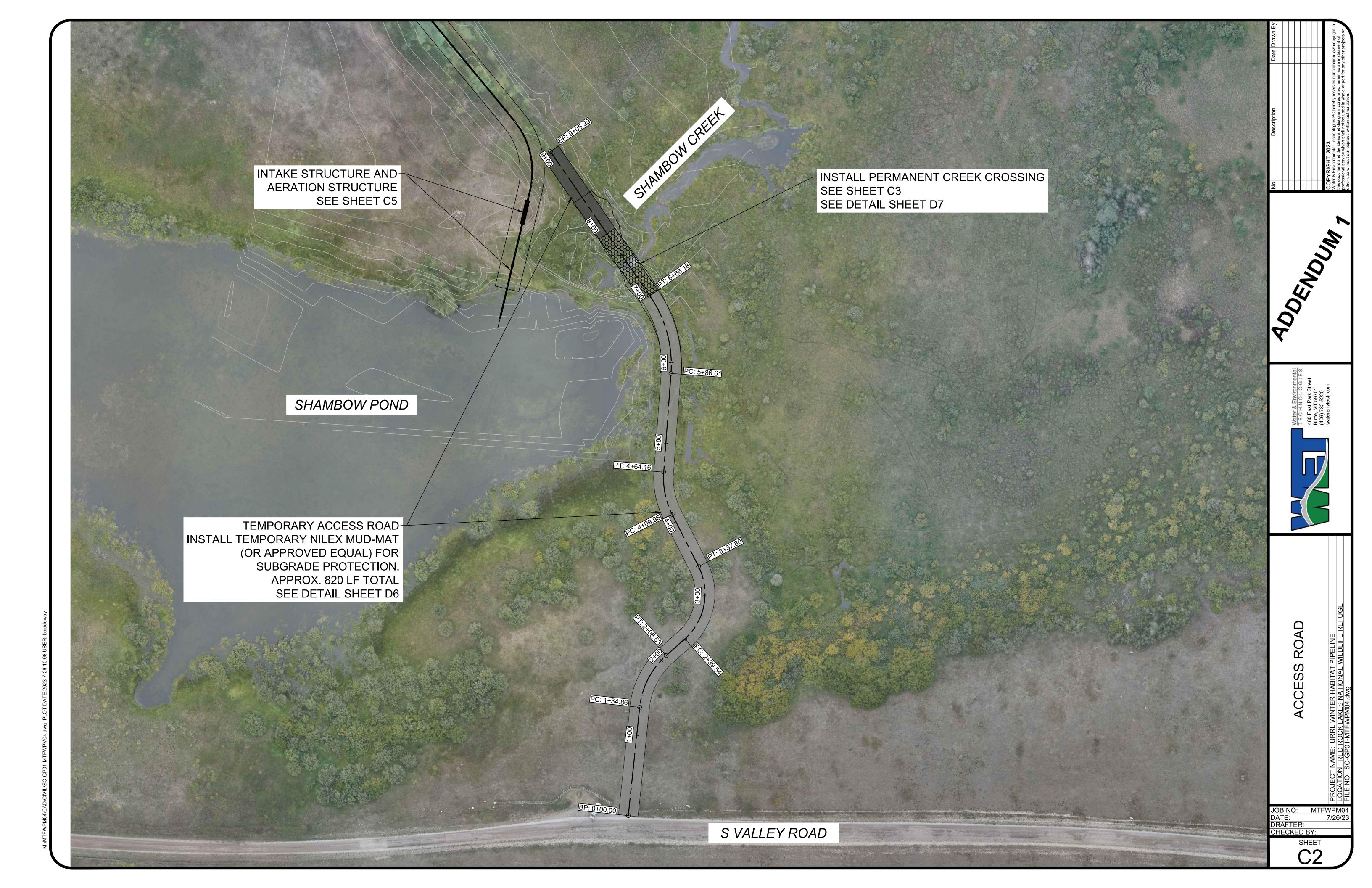
MATERIAL ESTIMATES ARE LISTED TO AID THE CONTRACTOR DURING PROJECT BIDDING. THE LIST IS NOT INCLUSIVE OF ALL MATERIALS OR INCIDENTALS REQUIRED FOR THE PROJECT SCOPE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL PROJECT TAKEOFFS.

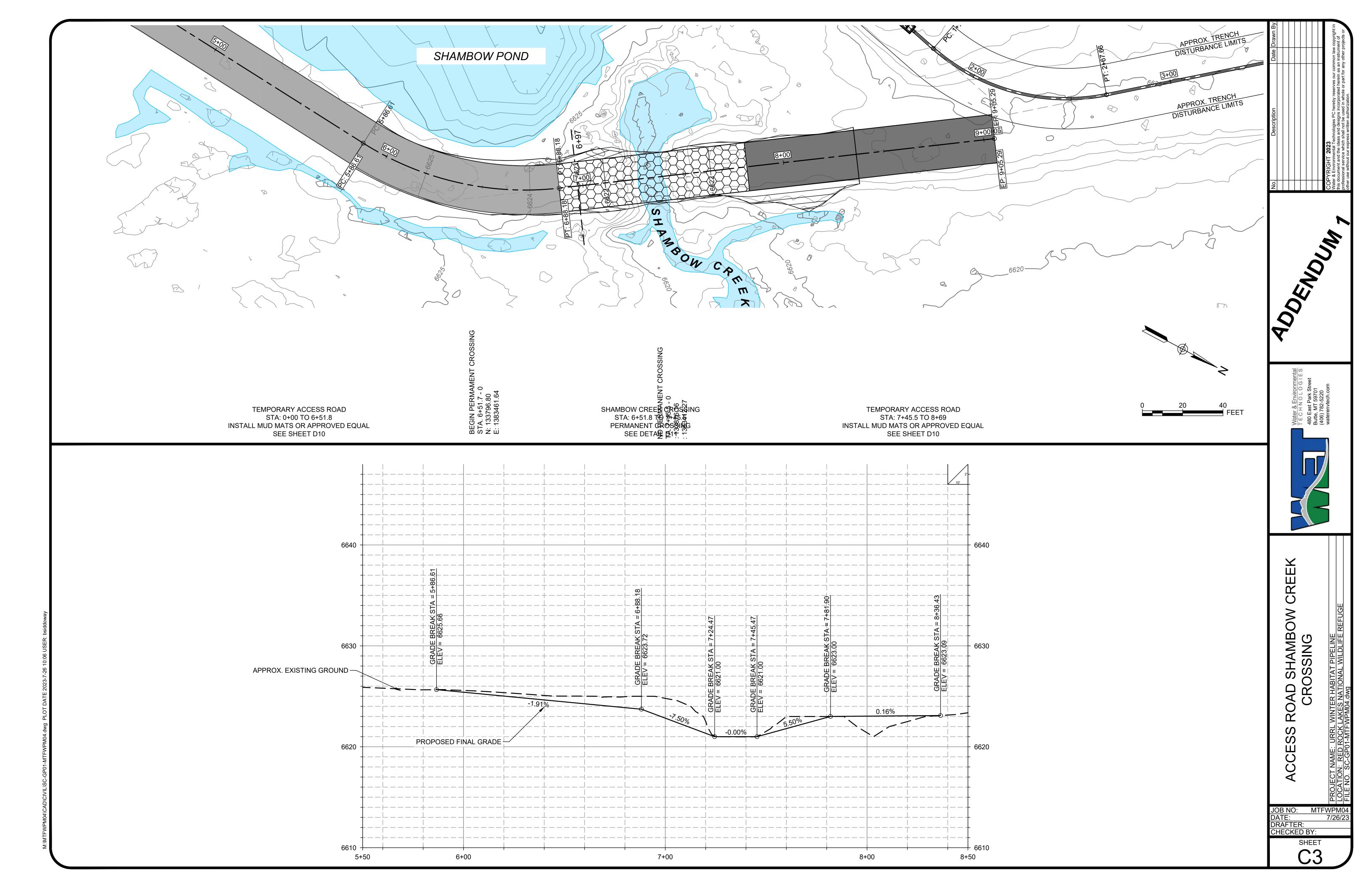
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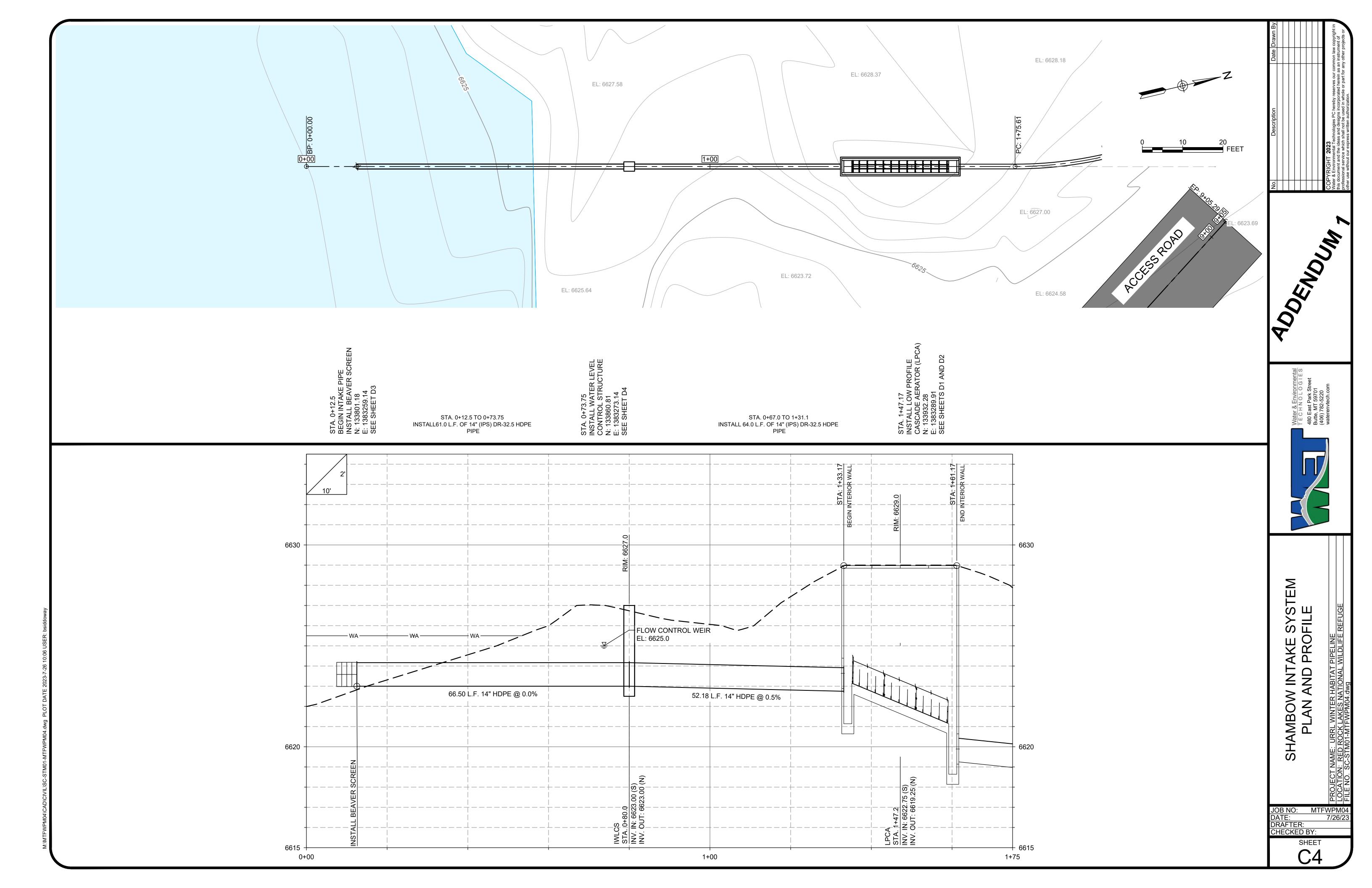
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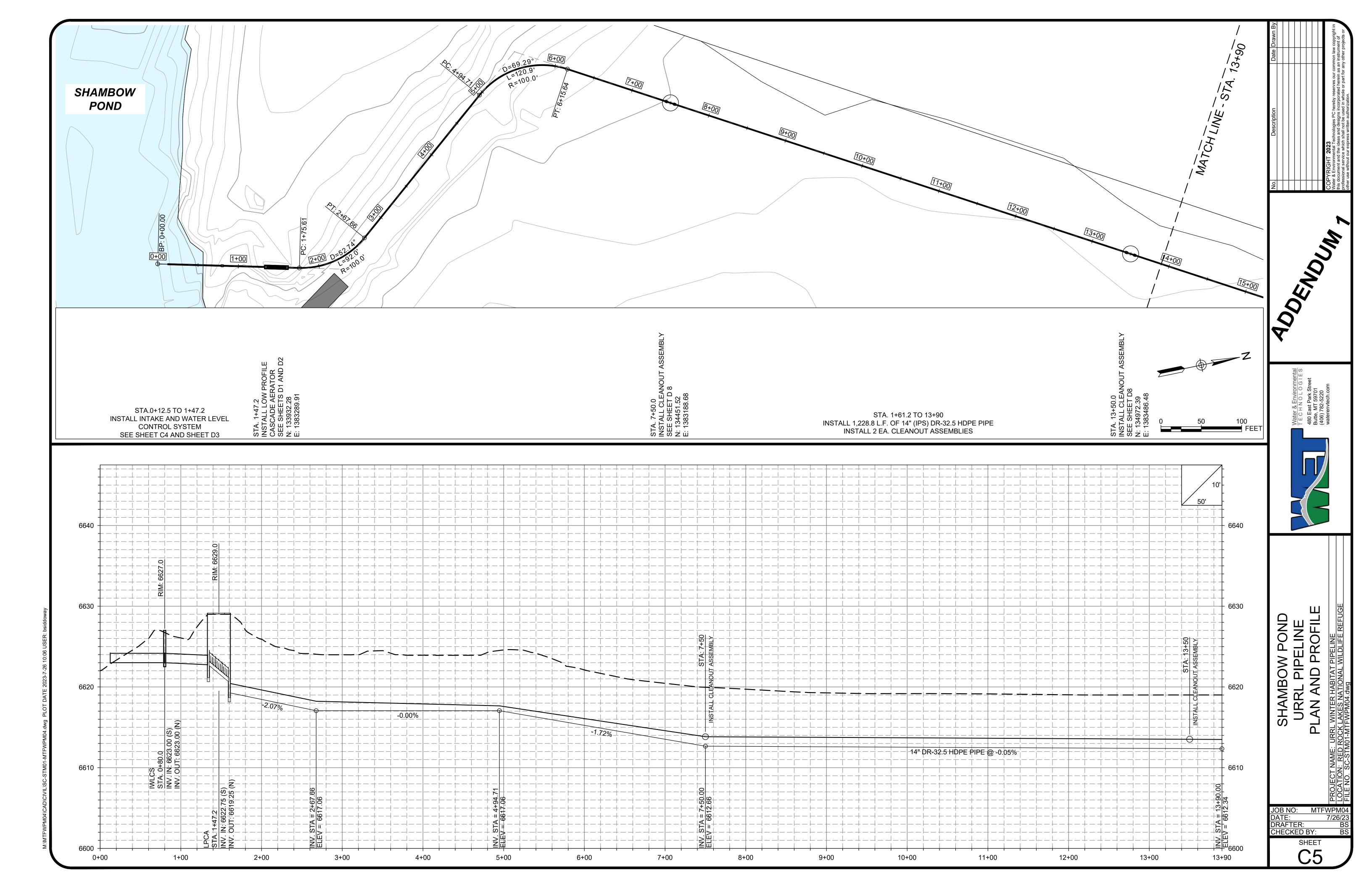
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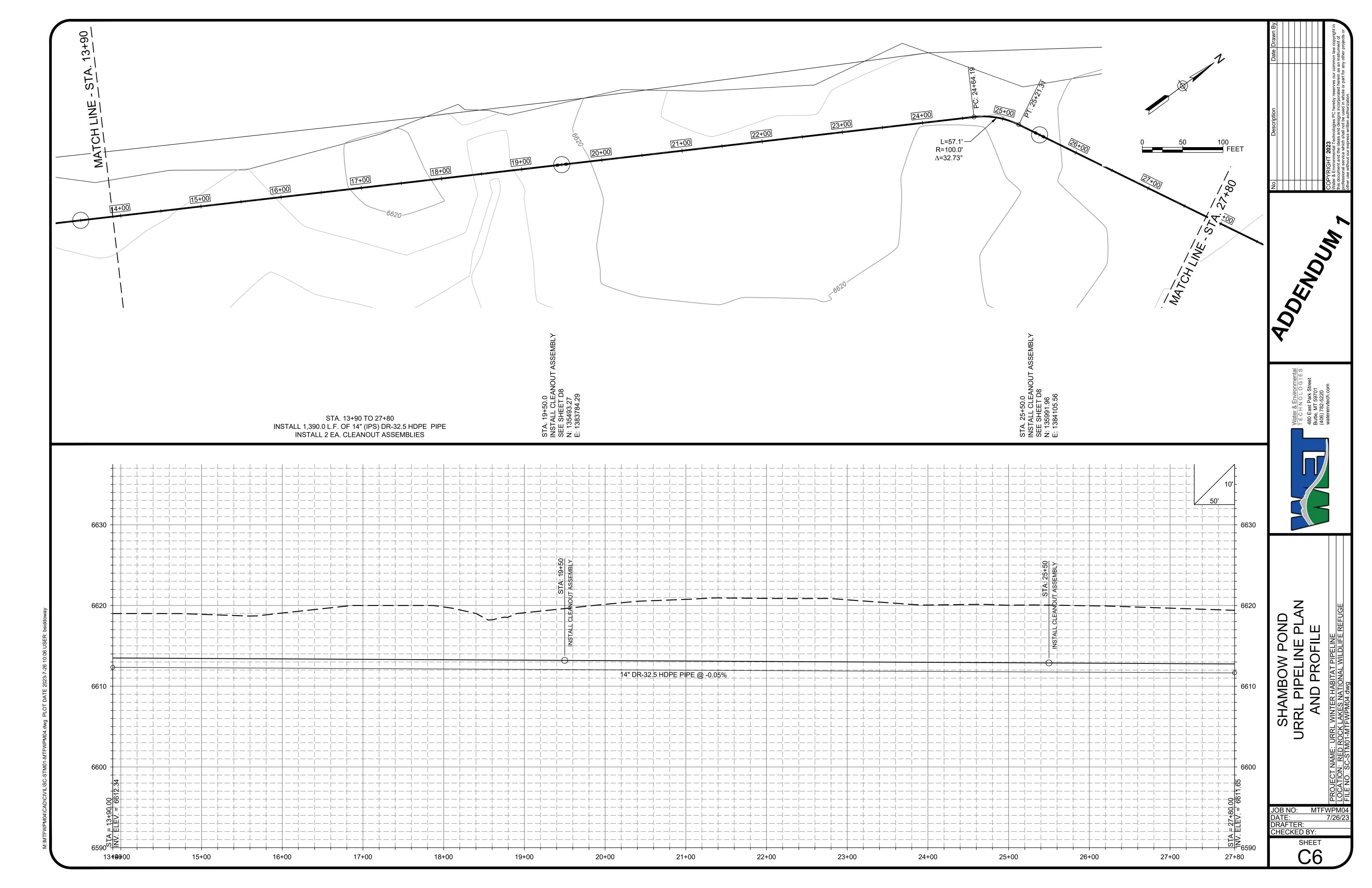


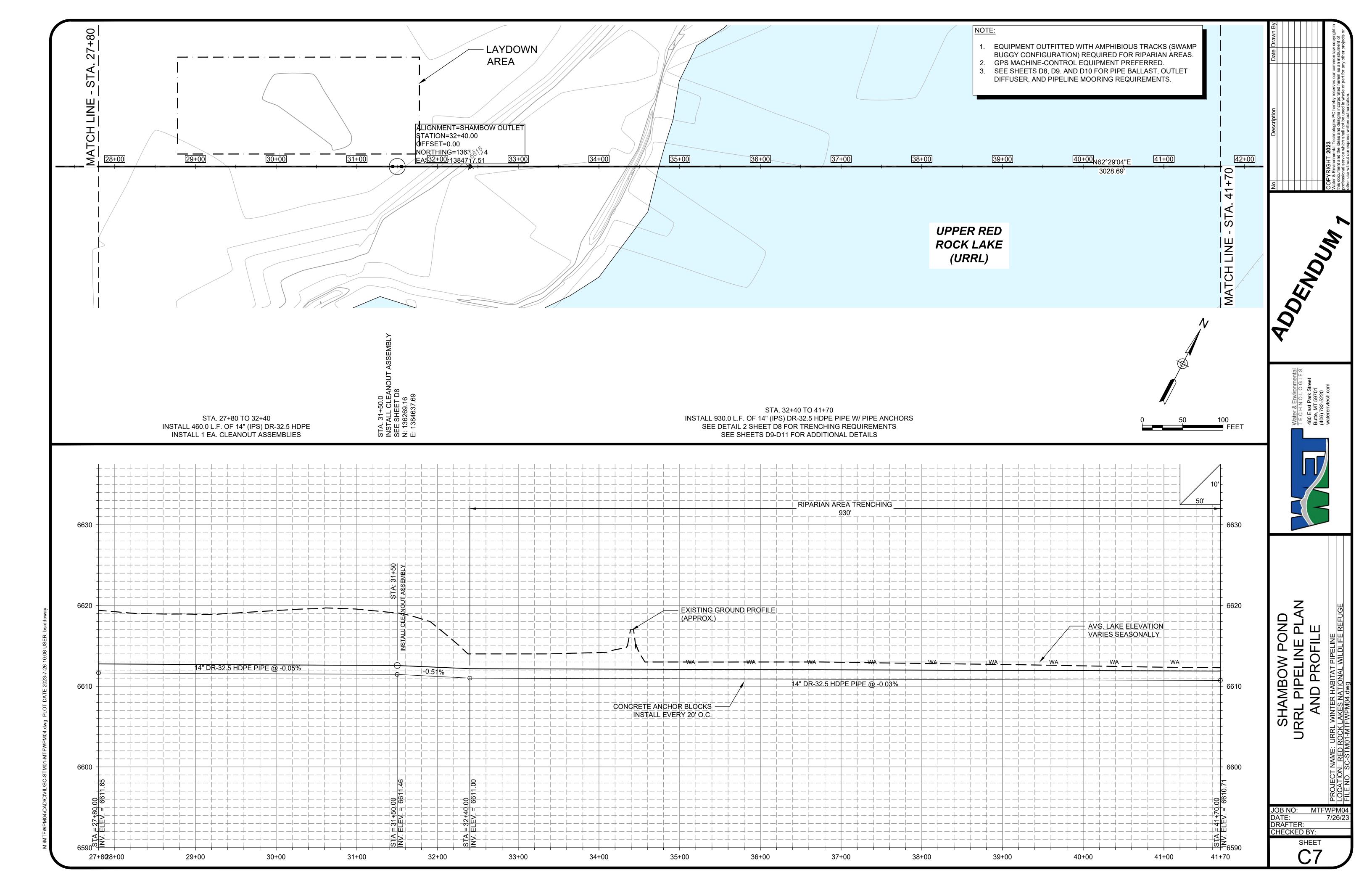


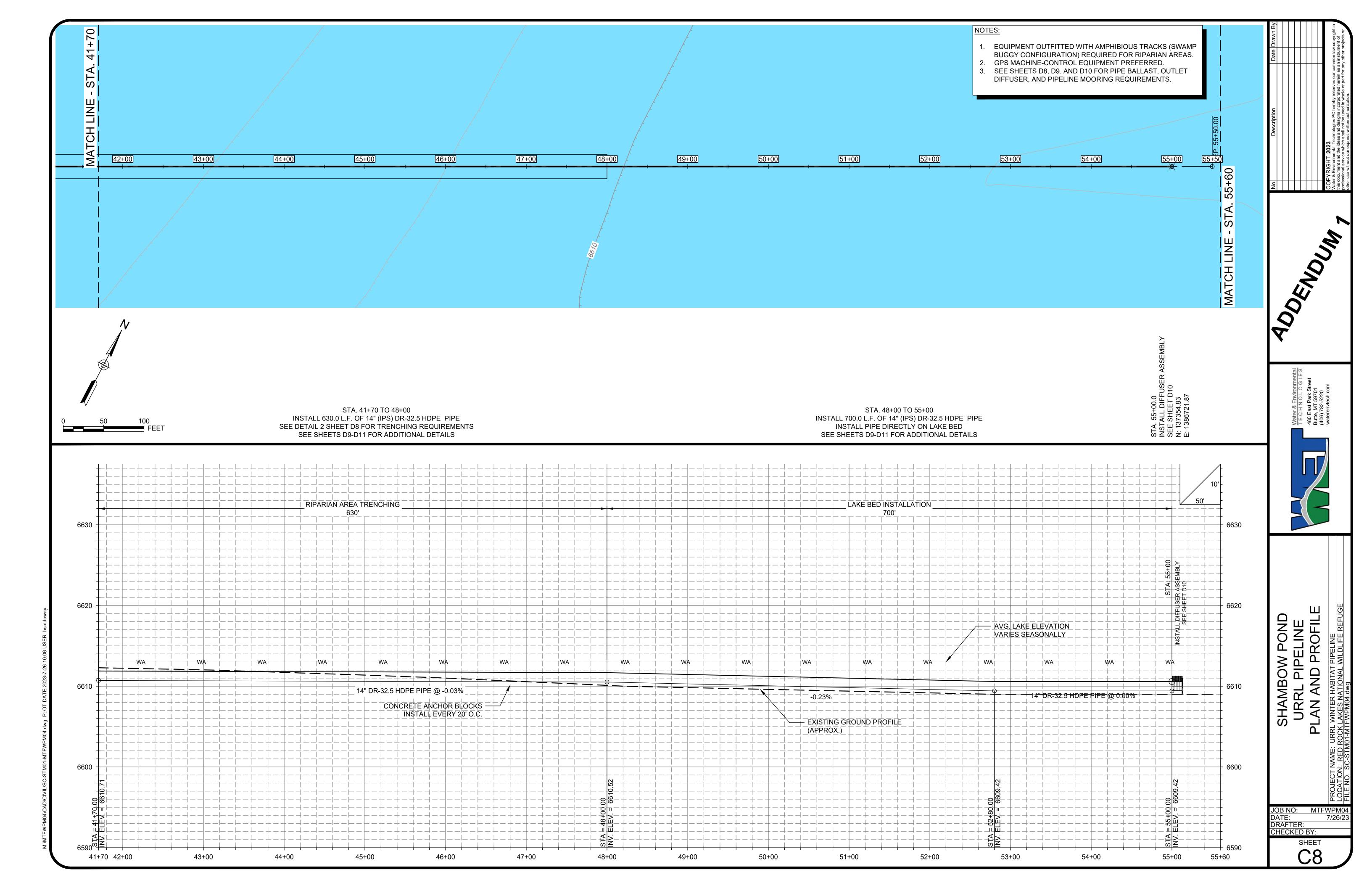


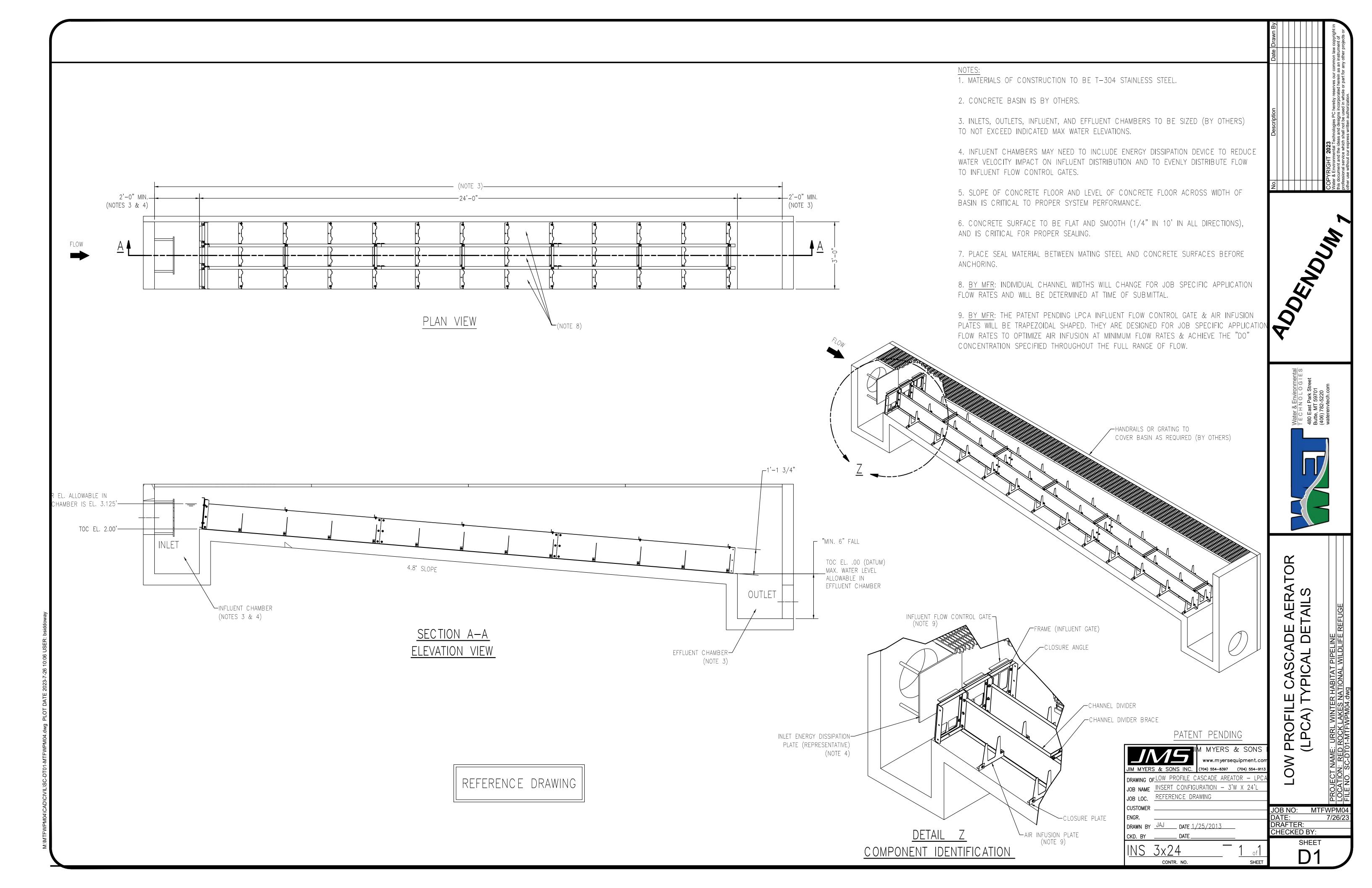


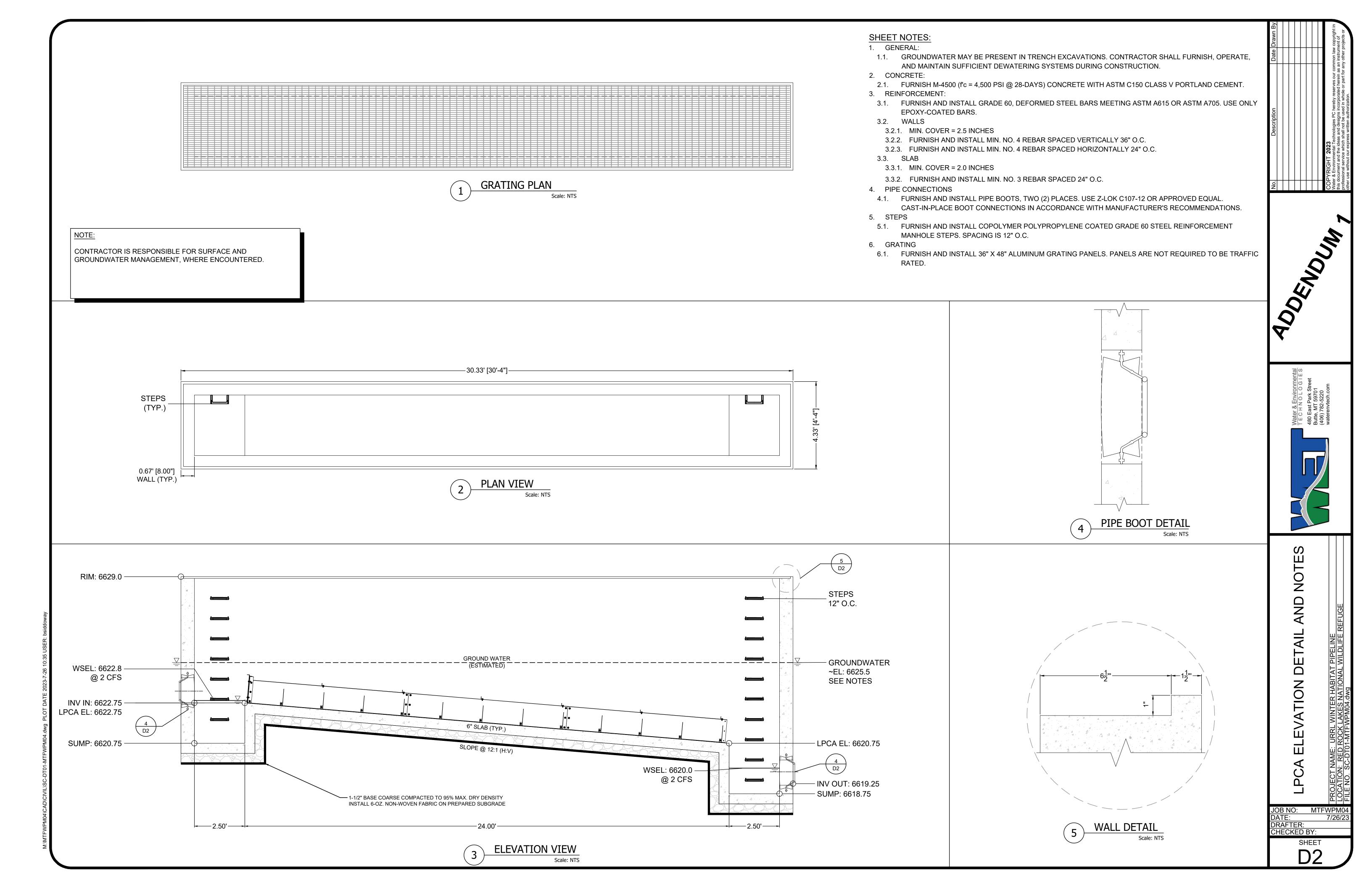


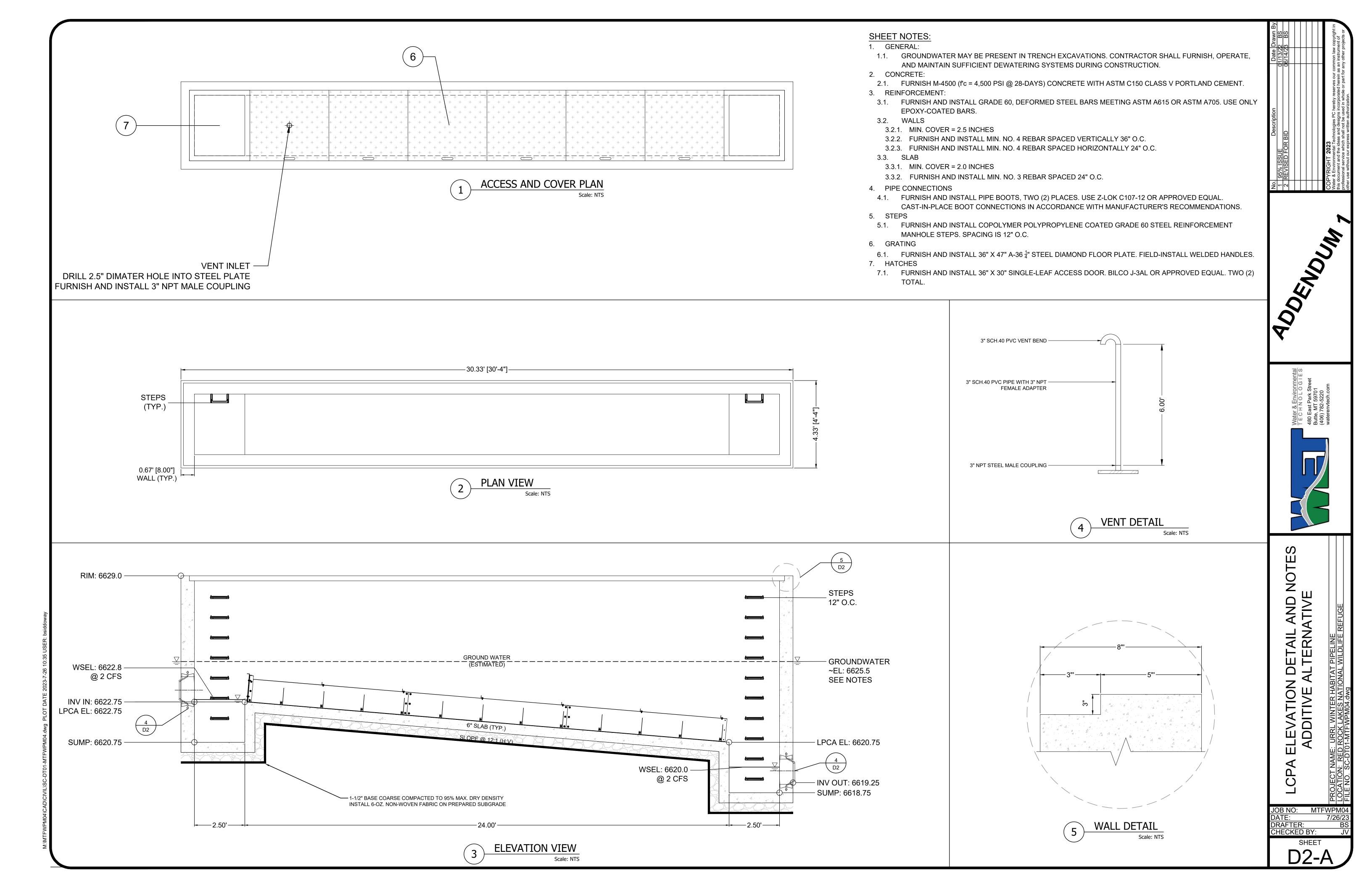


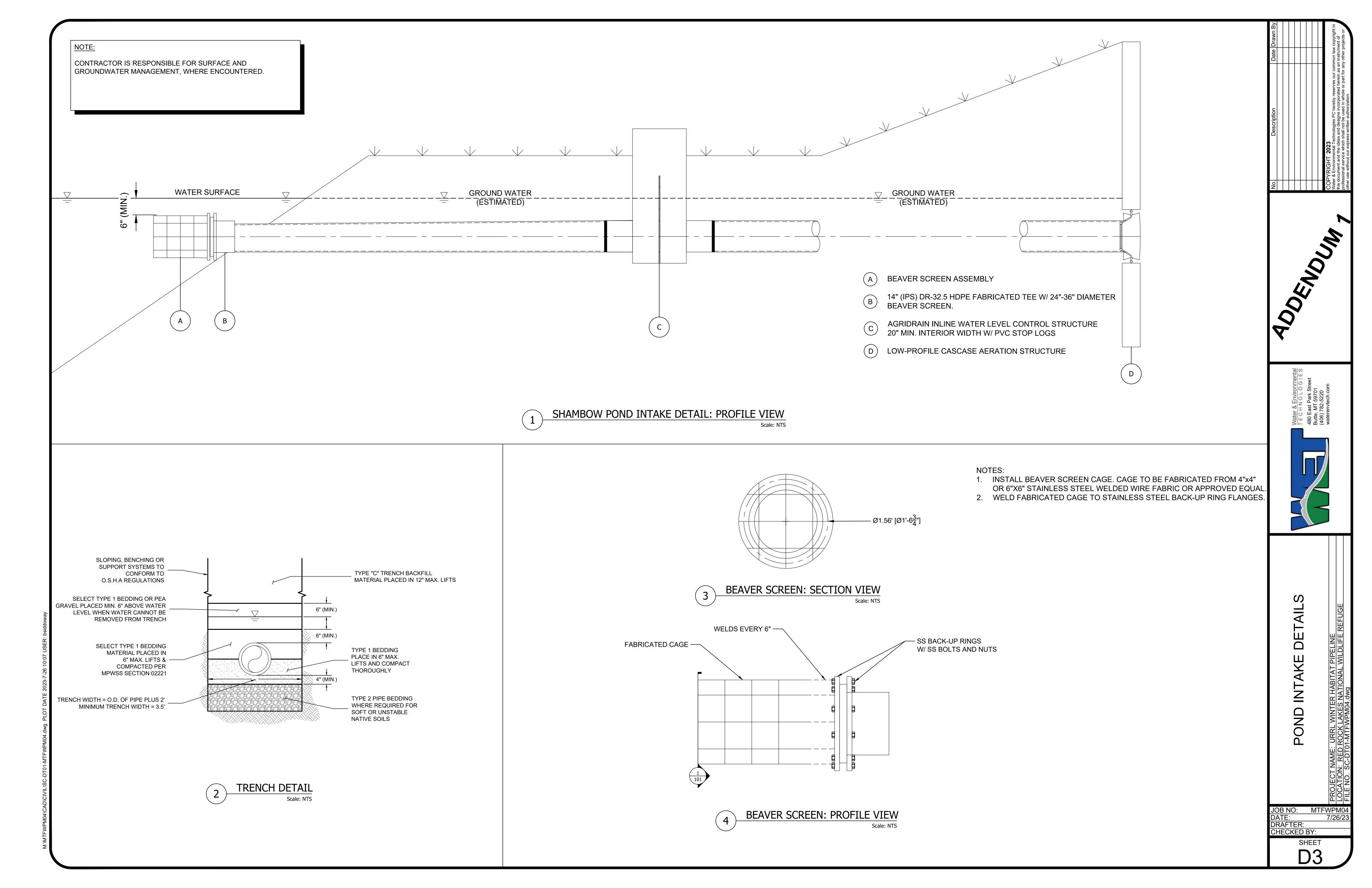




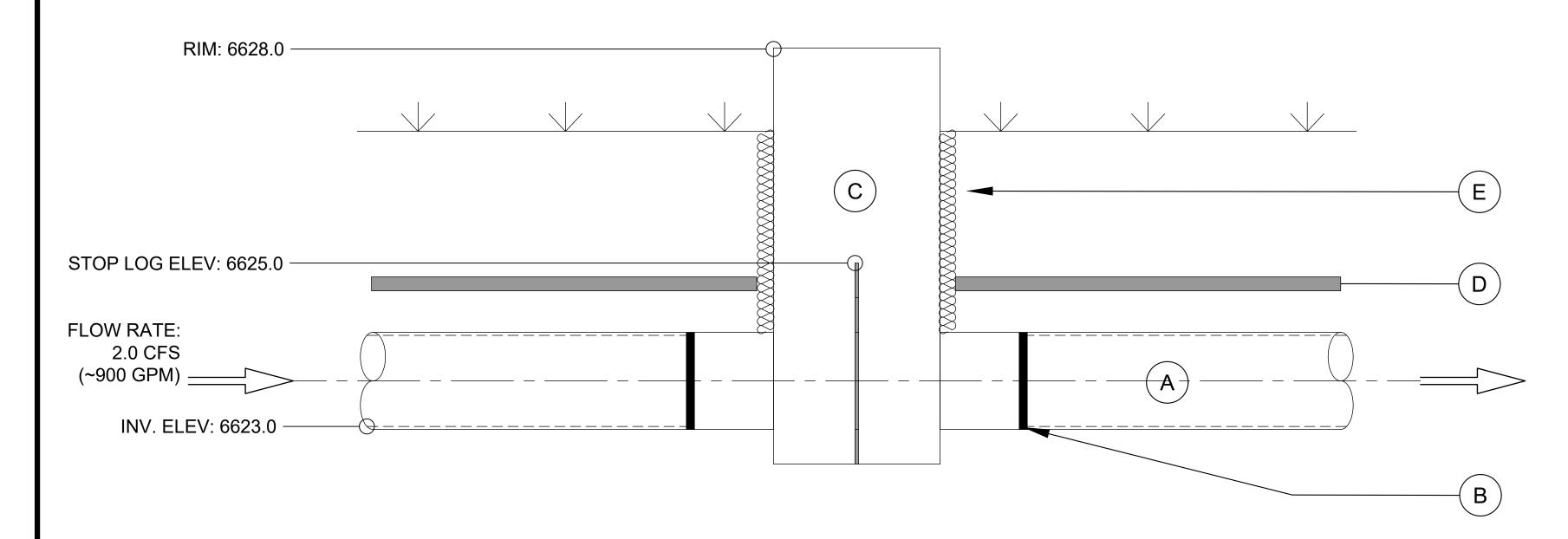








CONTRACTOR IS RESPONSIBLE FOR SURFACE AND GROUNDWATER MANAGEMENT, WHERE ENCOUNTERED.



14" (IPS) DR-32.5 HDPE PIPE. 14" O.D. 13.08" I.D.

FLEXIBLE COUPLER FOR 13.08" I.D. HDPE PIPE CONNECTION. NOTE: MANUFACTURER TO SPECIFY MODEL SIZE.

AGRIDRAIN INLINE WATER LEVEL CONTROL STRUCTURE 20" MIN. INTERIOR WIDTH W/ PVC STOP LOGS

2" RIGID FOAM INSULATION BOARD WHERE BURY DEPTHS ARE LESS THAN 50". SUITABLE FOR DIRECT-BURY APPLICATIONS. NOT NEEDED WHERE GROUNDWATER IS ENCOUNTERED

INSTALL SPRAY FOAM INSULATION BELOW GRADE. SPRAY FOAM TO BE SUITABLE FOR DIRECT-BURY APPLICATIONS. R-33 OR BETTER RATING.

> WATER LEVEL CONTROL STRUCTURE: PROFILE VIEW Scale: NTS

PO Box 458 · 1462 340th Street · Adair, Iowa 50002 Phone: 1-800-232-4742 · Fax: 1-800-282-3353 www.agridrain.com · email: info@agridrain.com

> US Patent No. 6,786,234 B2 Canadian Patent No. 2,403,456 Canadian Patent No. 2,466,976

> > Comes with a

handle to install and

remove stoplogs.

Call for details

on Automated.

prevent leakage.

Inline Water Level Control Structure™ 🥦

- Available in manual or automated.
- Constructed of rugged ½" PVC with lockable plastic lid. Stainless steel screws and custom anodized aluminum corner extrusions used for strength and durability.*
- Flexible couplers allow PVC, plastic pipe, or other materials to be easily attached. (Please specify type of pipe when ordering.)
- Rugged injection molded stoplogs in 5" and 7" heights for adjustability (included in structures with 4" through 12" pipe sizes).
- PVC stoplogs with metal hooks in 5" and 7" heights for adjustability (included in structures with 15" through 24" pipe sizes).
- Stoplog maintenance recommended: Remove stoplogs and grease seal with Ultra Lube (included). Ensure there is no debris in the tracks or along the bottom of the structure. Replace stoplogs after greasing, ensuring bottom stoplog is
- To minimize seepage, align stoplogs firmly against one side of the stoplog track. • Stoplogs must remain in track during structure installation.
- Structures are intended for gravity flow; some seepage may occur.

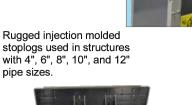
• 5-year warranty on all standard structures.

*For water that is caustic, acid, corrosive, salt, or pH below 5 pH or above 9 pH, please notify us of your requirements to ensure structures are built with compatible hardware. For these applications, Agri Drain recommends stainless steel.

Inline Water Level Control Structure™				
Pipe Size	Available Heights	Width	Depth	
4"	2' - 12'	8"	10"	
6"	2' - 12'	8"	10"	
8"	2' - 12'	11 ^{5/8} "	12"	
10"	2' - 12'	14"	16"	
12"	2' - 12'	16"	20"	
15"	2' - 12'	20"	24"	
18"	2' - 12'	24"	28"	
24"	3' - 10'	31"	39"	

Stoplog Retainer Hold extra stoplogs up &

out of the way! Stainless steel retainer hooks to lowest stoplog that you want Inline Water Level Control Structure™



stoplogs used in structures





Stoplog seal ensures a tight fit to

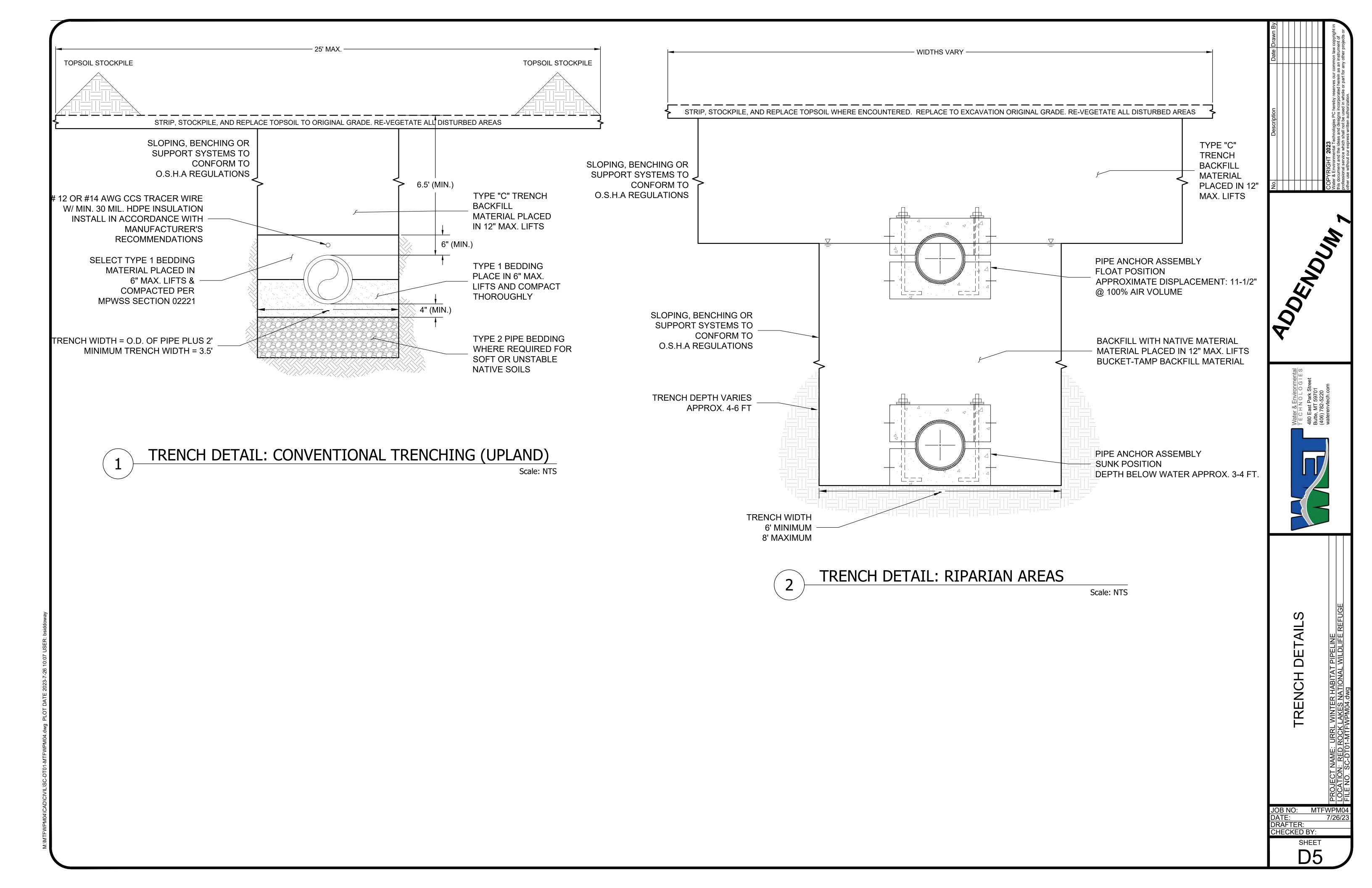


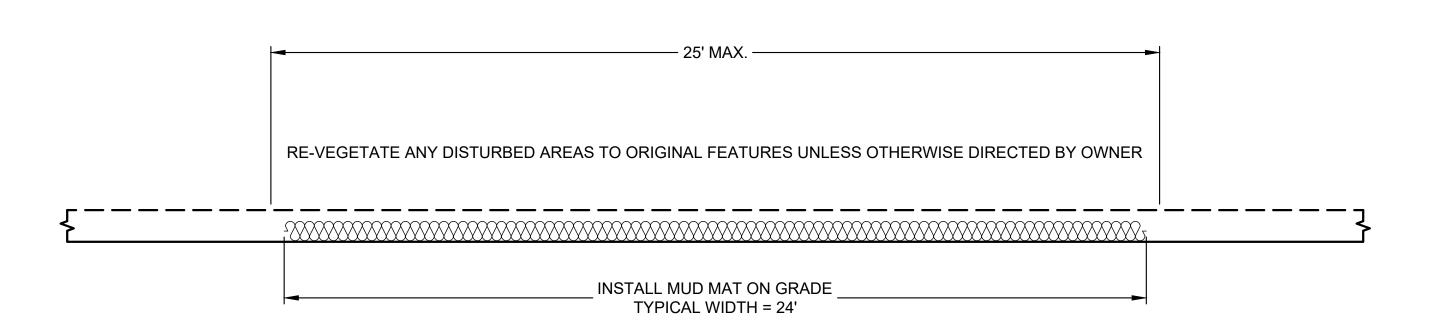
WATER LEVEL CONTROL STRUCTURE SPECIFICATION

Scale: NTS

JOB NO: MTFWPM04
DATE: 7/26/23
DRAFTER:
CHECKED BY:

D4

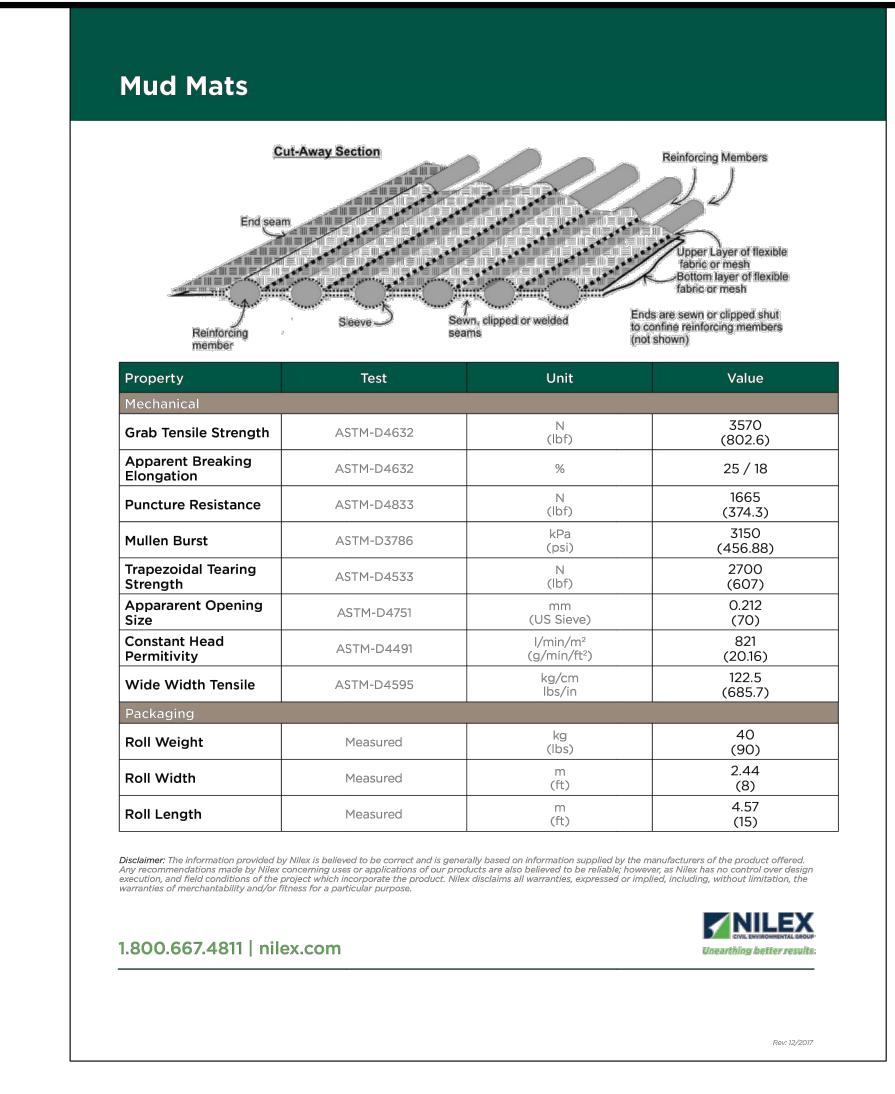




TEMPORARY ACCESS ROAD DETAIL: SECTION VIEW Scale: NTS

GENERAL NOTES:

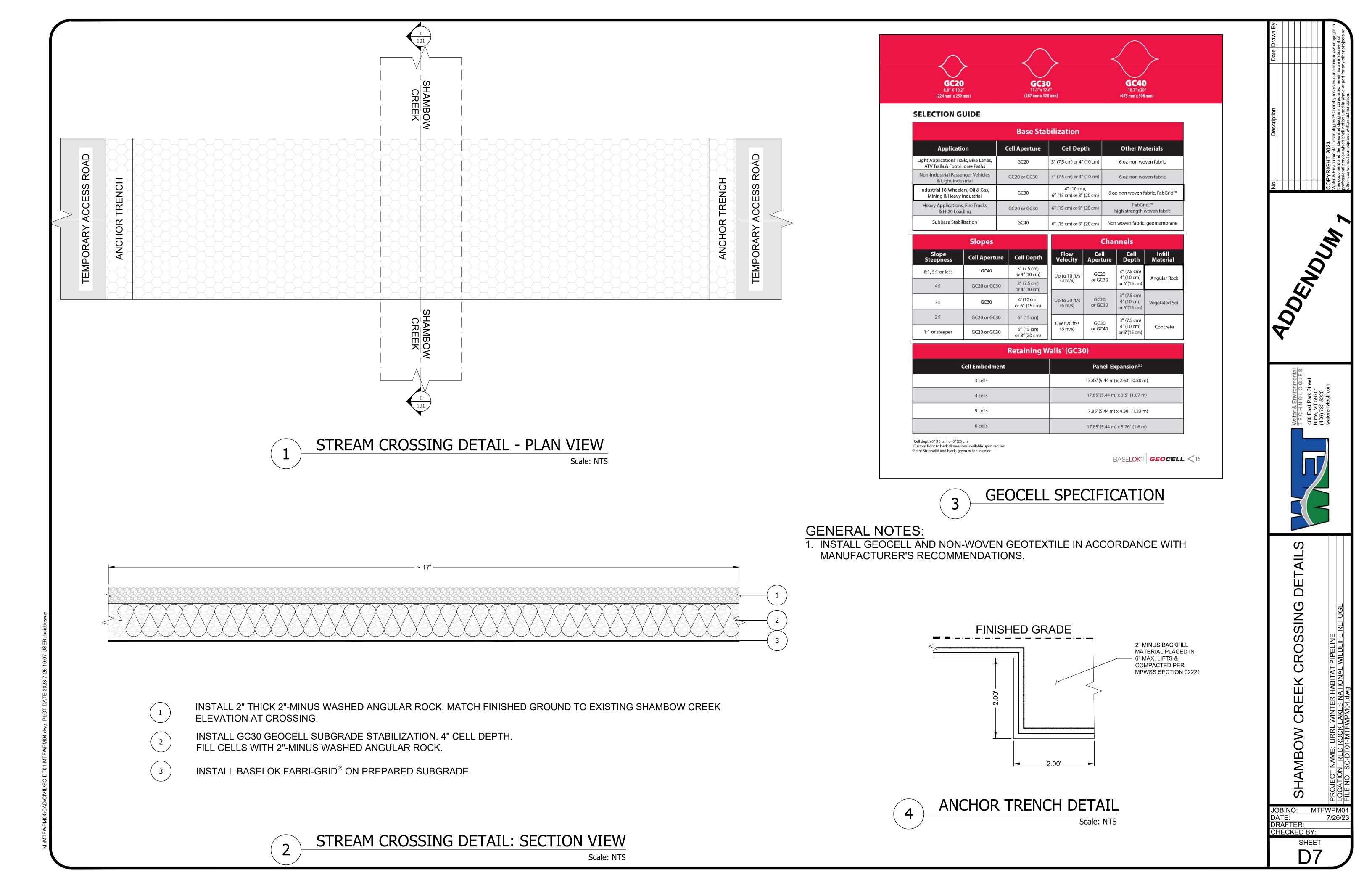
- 1. INSTALL SUB GRADE PROTECTION MATS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
- 2. REMOVE MATS AT THE COMPLETION OF THE PROJECT. REPLACE TOPSOIL TO ORIGINAL GRADE AND RE-VEGETATE ALL DISTURBED AREAS.



ACCESS ROAD SUBGRADE PROTECTION SPECIFICATION

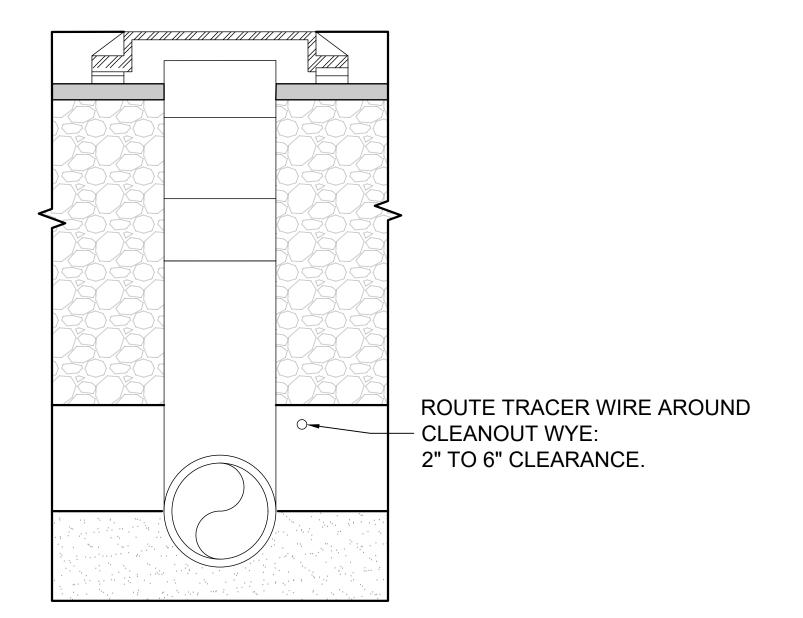
JOB NO: MTFWPM04
DATE: 7/26/23
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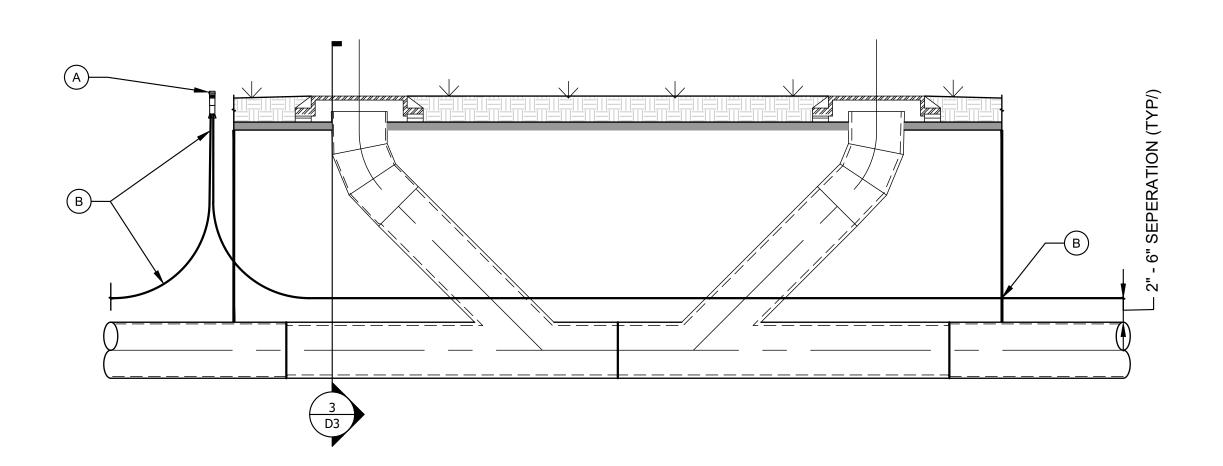
- A 14" (IPS) DR-32.5 HDPE PIPE
- B 14" (IPS) DR-17 HDPE 45° LATERAL WYE FABRICATED NOTE: MANUFACTURER TO BEVEL (2) PIPE ENDS TO DR-32.5
- © 14" (IPS) DR-32.5 HDPE 45° FABRICATED ELBOW: THREE-SEGMENT MITERED BEND
- © COPPERHEAD SNAKEPIT® TRACER WIRE ACCESS BOX OR COBRA T2 ABOVE-GRADE TEST STATION. APWA COLOR CODE: BLUE.
- E 24" Ø CAST IRON MANHOLE LID AND FRAME WITH GRADE RINGS. MATCH RIM ELEVATIONS TO EXISTING GRADE.
- 2" RIGID FOAM INSULATION BOARD. SUITABLE FOR DIRECT-BURY APPLICATIONS.
- PEA GRAVEL OR C-33 SAND INFILL. LESS THAN 5% PASSING NO. 200 SIEVE.
- FIELD-CORE TWO (2) HOLES IN TOP OF RIGID FOAM INSULATION BOARD AT PIPE OD + 1" DIAMETER.





CLEANOUT TRACER WIRE DETAIL - PROFILE VIEW

Scale: NTS



- (A) COPPERHEAD SNAKEPIT® TRACER WIRE ACCESS BOX OR COBRA T2 ABOVE-GRADE TEST STATION. APWA COLOR CODE: BLUE. ADJUST 2-6" ABOVE FINISHED GRADE
- (B) ROUTE TRACER WIRE THROUGH RIGID BOARD INSULATION.

CLEANOUT TRACER WIRE DETAIL - SECTION VIEW

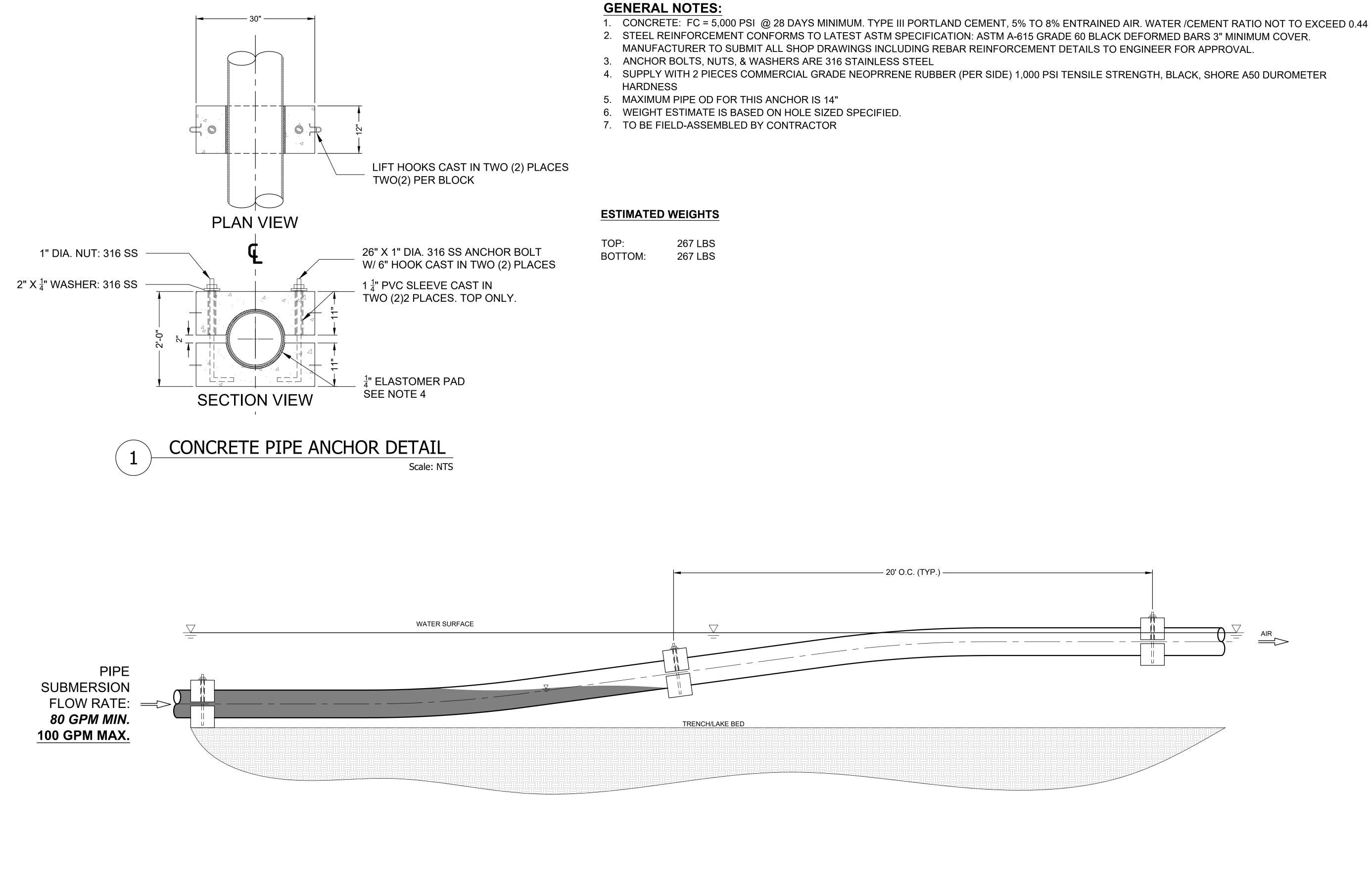
Scale: NTS

JOB NO: MT DATE: DRAFTER:

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JOB NO: MTFWPM04
DATE: 7/26/23
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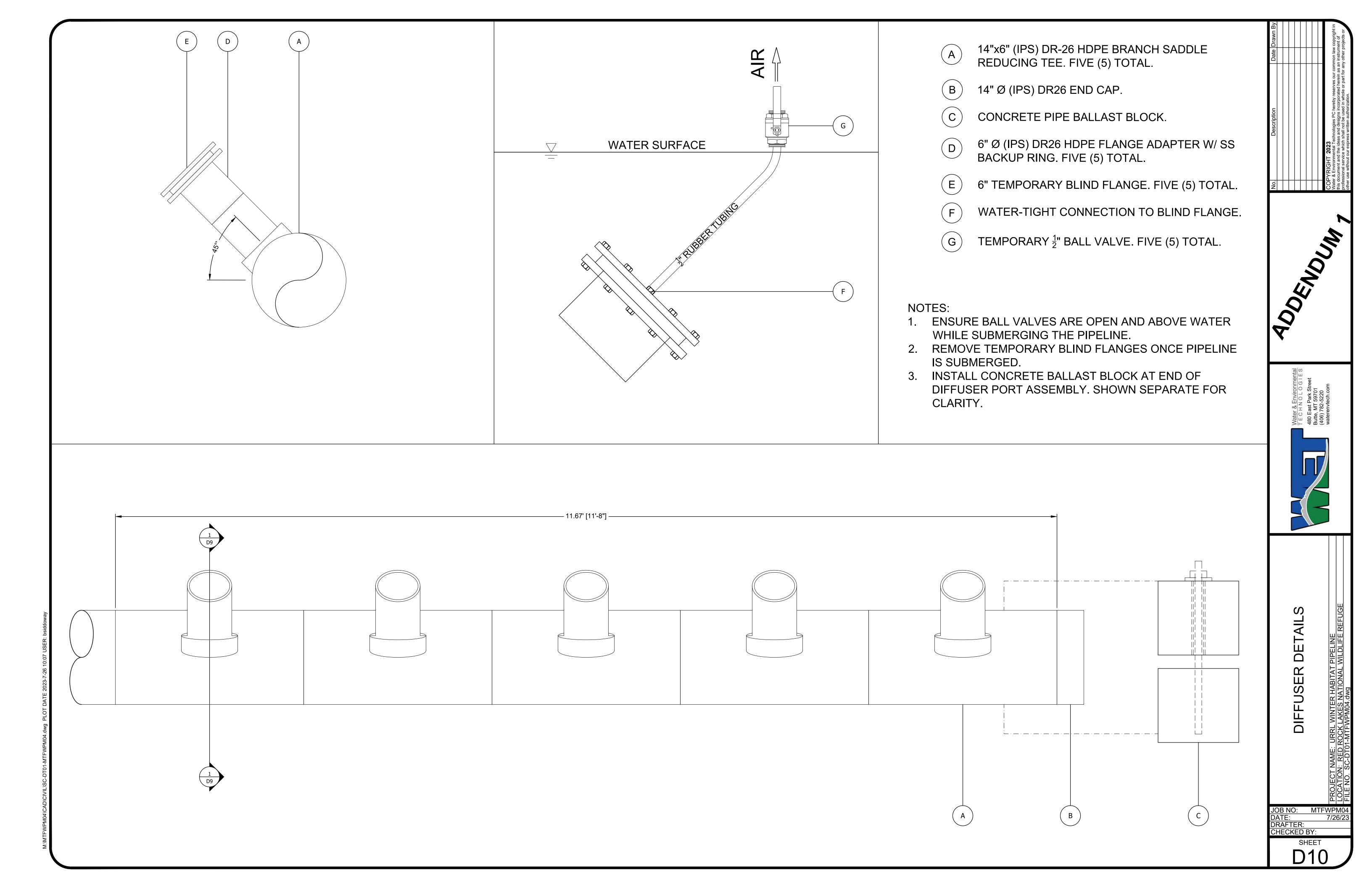


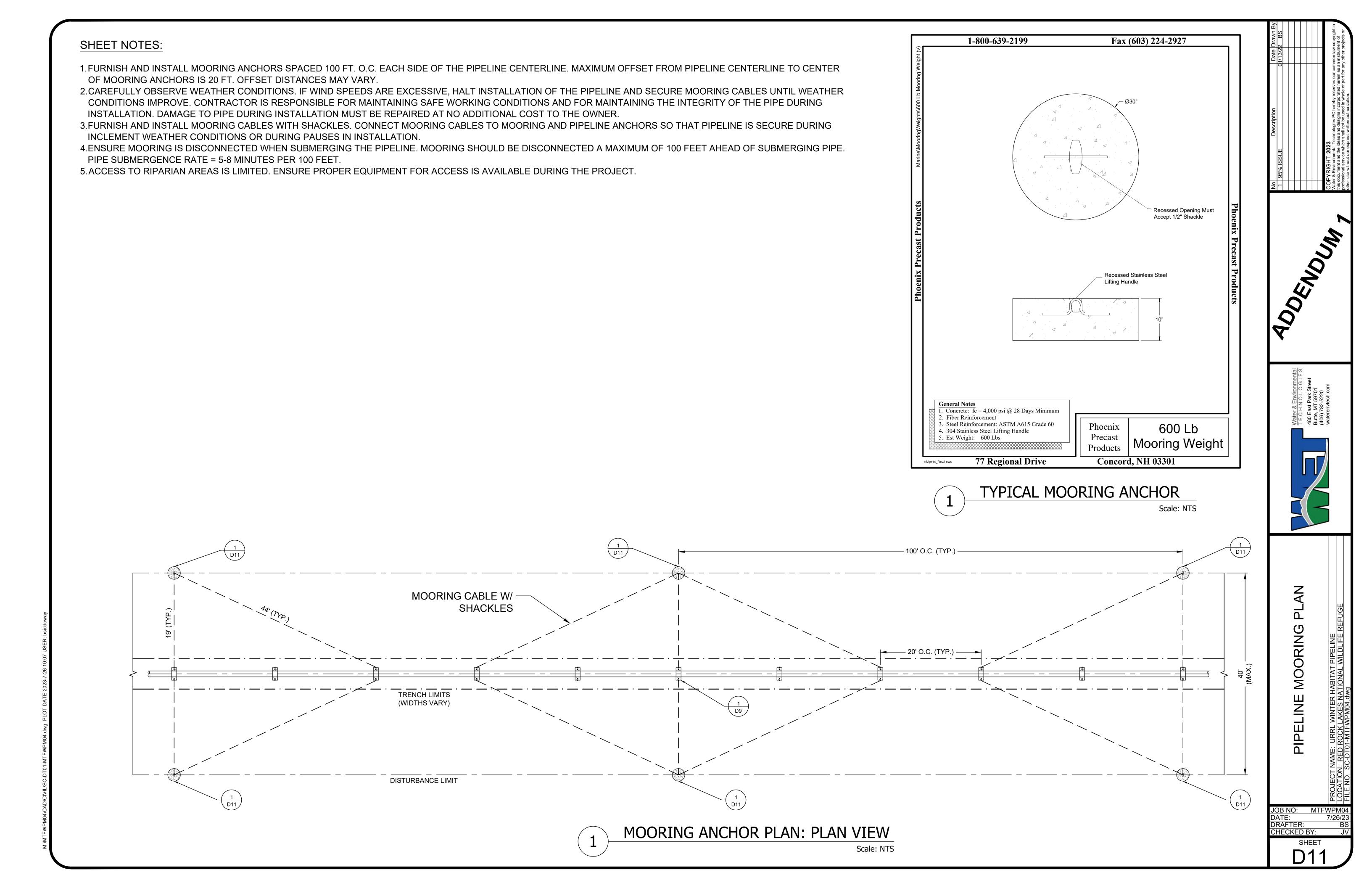
PIPE SUBMERGENCE DETAIL

Scale: NTS

JOB NO: MTFWPM04 DATE: 7/26/23 DRAFTER: CHECKED BY: SHEET

D9





PROPOSAL – ADDENDUM 1

Montana Fish, Wildlife & Parks Design and Construction PO Box 200701, 1522 Ninth Avenue Helena, Montana 59620-0701

PO Box 200701, 1522 Ninth Avenue Helena, Montana 59620-0701

The undersigned, having familiarized himself with the conditions of the work and the contract documents as prepared by FWP, <u>Jacob Mangum</u>; <u>P.O. Box 200701 Helena, Montana 59620-0701</u>; <u>Phone (406) 841-4010</u> agrees to furnish all labor, materials, equipment, and services necessary to complete all general construction work, as bid herein, for a project entitled <u>Upper Red Rock Lake Winter Grayling Habitat Project, near Monida, MT</u> in accordance with the Contract Documents including all Addenda. Bidder agrees to perform all work described below at the price shown as follows:

Reminder to Contractors: All Unit Prices <u>must</u> be filled in on the Bid Form for a valid bid (18-2-303 MCA).

BASE BID:

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Total Amount
1	Mobilization/Demobilization	1	LPSM	LPSM	\$
2	Access Road – Temporary	870	LNFT	\$	\$
3	Clearing and Grubbing	4	ACRE	\$	\$
4	Aeration Structure/Pond Intake	1	LPSM	LPSM	\$
5	14" DR32.5 HDPE Pipe – Conventional Trenching	3,210	LNFT	\$	\$
6	Cleanout Assemblies	5	EACH	\$	\$
7	14" DR32.5 HDPE Pipe – Riparian Installation	2,250	LNFT	\$	\$
8	Grade & Gravel Roadside pull-offs, curve at bottom of hill, & exist. 2-track	8,085	LPSM	LPSM	\$
9	Seeding and Reclamation	4	ACRE	\$	\$
Total: <u>\$</u>					

BASE BID:	
AND)

FWP Project #: 23-07

ADDITIVE ALTERNATE #1:

Item #	Description	Estimated Quantity	Unit Measure	Unit Price	Total Amount
A1.1	Stand Pipe and cover – Breathing tube for aeration vault – See sheet D2-A	1	LPSM	LPSM	\$
Total: <u>\$</u>					

Additive Alternate #1:			
AN	ND /100's DO	LLARS (\$).
TOTAL BID (includes Base B	id plus all Additive A	lternates):	
AND/100	DOLLARS (\$		
And certifies that he is a duly an Labor and Industry: FIRM NAME:	· ·		•
TELEPHONE#			
SIGNED BY:			
BUSINESS ADDRESS			
EMAIL ADDRESS:			
ADDENDUM NO	DATE:		
ADDENDLIM NO	DATE:		



Q&A – ADDENDUM 1

TO: ALL BIDDERS OF RECORD

PROJECT: Upper Red Rock Lake Winter Grayling Habitat Project

FWP PROJECT #: 23-07

DATE: 7/26/2023

- 1. Do we need to install base course under the LPCA?
 - a. Yes. The plans have been updated to require a 6" thick layer of 1-1/2" base coarse. The base course will be installed on a 6-oz. non-woven geotextile fabric in direct contact with the prepared subgrade.
- 2. Do we need a discharge permit for groundwater?
 - a. If groundwater is discharged onto the surface, then a discharge permit may be needed.
- 3. I believe the Nilex mud mats called out on the plans are an import project. Will this be acceptable per the BABA funding as it is temporary road, or will it need to meet the BABA requirements?
 - a. Since the Nilex mud mats are temporary, and do not become part of the permanent infrastructure, they do not have to meet the BABA requirements.
- 4. Will the HDPE fittings manufacturer need to be ISO 9001 certified?
 - a. Yes
- 5. Will the HDPE fusion technician need to be ISO 9001 certified or just McElroy fusion machine certified?
 - a. The technician needs to be McElroy fusion machine certified. Only the manufacturers of the pipe and fittings need ISO 9001 certification.
- 6. A tee is called out for the beaver screen connection to the 14" HDPE, but it appears to me to be an HDPE flange adapter. Could you please clarify which is correct?
 - a. The callout should read HDPE Flange Adapter and not Fabricated Tee.
- 7. Will any coating be required for the manhole covers over the cleanouts, or is standard bare metal acceptable?
 - a. Standard cast iron manhole covers are acceptable.