



To: All prospective Bidders DCR Contract #P24-3541-C1A Lowe's Pond Dam Rehabilitation

Location: Huguenot Road, Oxford, MA / 42°06'30.3"N 71°51'52.3"W

From: Dan Mortell, DCR Dam Maintenance

RE: Addendum No. 2

Date: October 17, 2024

Pages: Addendum 1 page Attachment: Pre-Bid meeting attendees 1 page Attachment: Drawing Revisions 10 pages Attachment: Questions & Responses - 7 pages

Please find the following ADDENDM NO 2 for DCR Contract P24-3541-C1A which is to be included as part of the Contract Documents thereof. The items set forth herein, whether of omission, addition, substitution or other change, are all to be included in and form a part of the proposed Contract Documents for the work.

Bidders shall acknowledge receipt of this Addendum No. 2 by checking the appropriate box on the project page within the Bid Express website (<u>www.bidexpress.com</u>)

The date, time and location for receipt of bids **Has Changed**. General Bid proposals are to be received until 12:00 PM on Thursday, November 7, 2024, through DCR's E-Bid room at www.bidexpress.com/business/36765/home.

Item #1: Pre-Bid Meeting attendee sign-in sheet (informational)

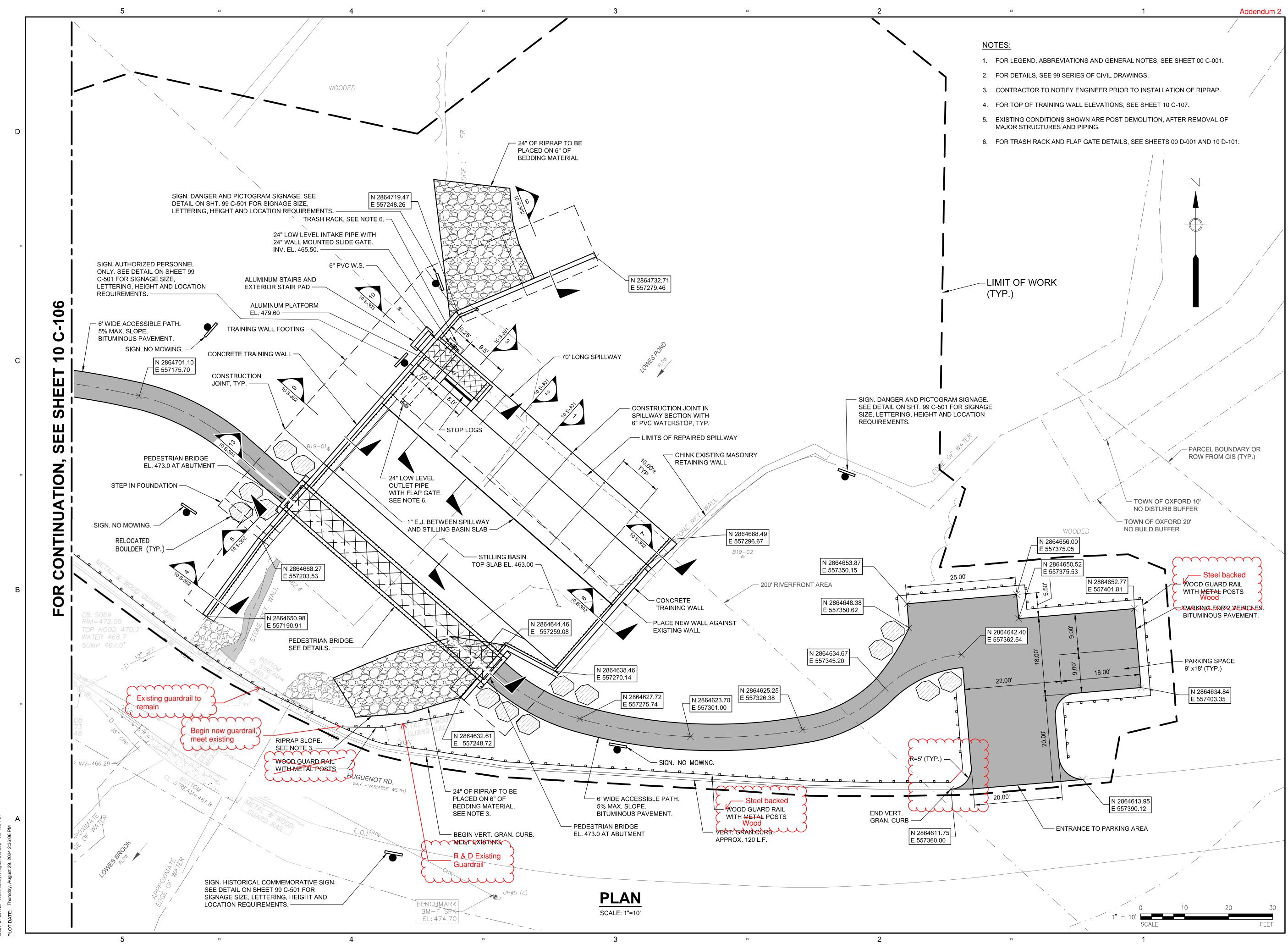
COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation State Transportation Building 10 Park Plaza, Suite 6620 Boston, MA 02116-3978 617-626-1250 617-626-1351 Fax www.mass.gov/dcr



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PROJECT

MASS DCR ABANDONED DAMS LOWES POND DAM CONTRACT NO. P19-3264-D4A

CLIENT

Massachusetts Department of Conservation and

Recreation 10 Park Plaza, Suite 6620 Boston, MA 02116 617.626.1250 tel 617.626.1351 fax www.mass.gov/orgs/department-of-conservation-recreation

CONSULTANT

AECOM TECHNICAL SERVICES, INC. 250 APOLLO DRIVE CHELMSFORD, MA 01824 PHONE: (978) 905-2100 www.aecom.com



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PROJECT NUMBER

60604936

Designed By:	J.P. MINOIS
Drawn By:	M. THIBODEAU
Dept Check:	C. BENZIGER
Proj Check:	D. GOVE
Date:	AUGUST 2024
Scale:	AS NOTED

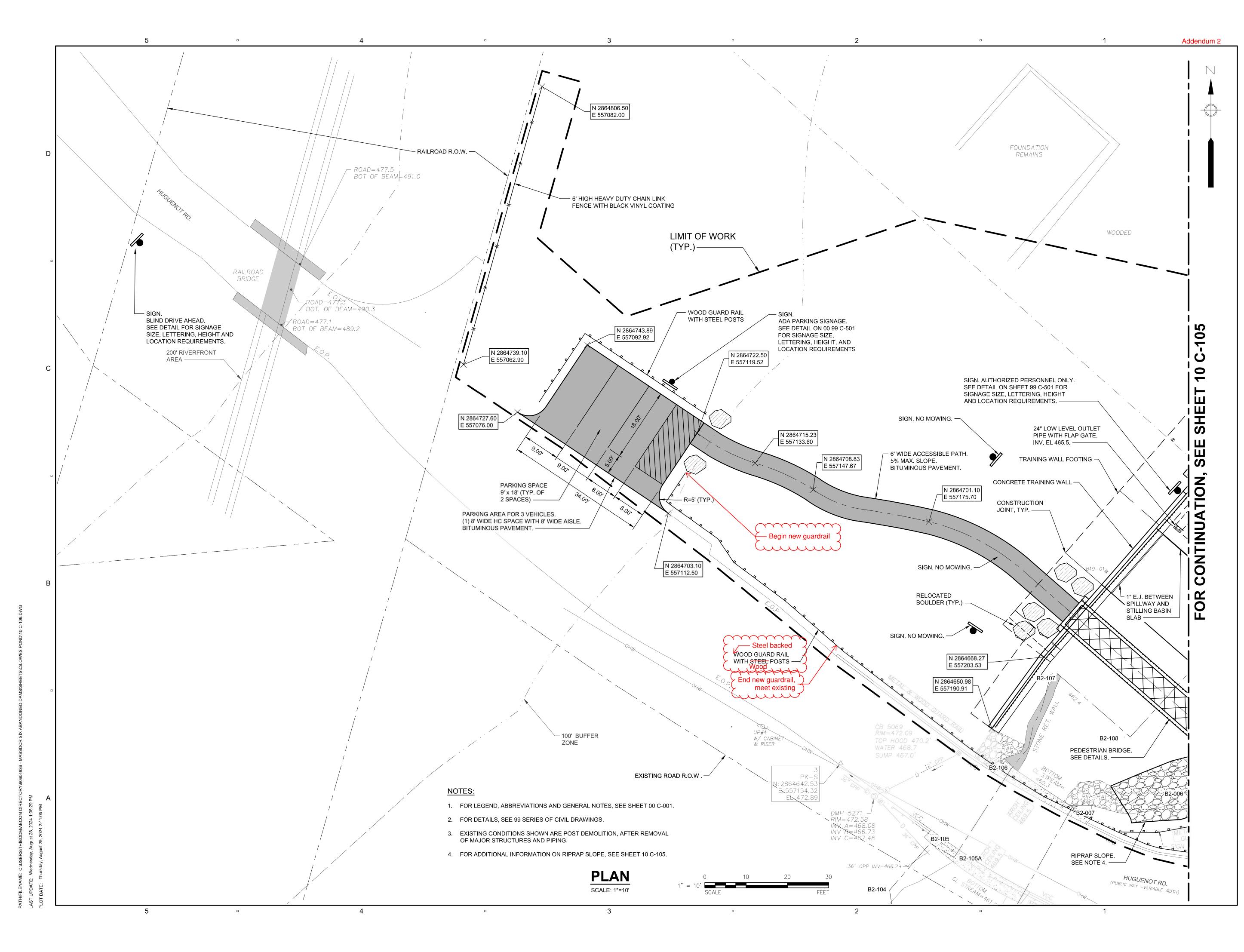
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CIVIL SHEET TITLE

LOWES POND

SITE LAYOUT PLAN I

SHEET NUMBER



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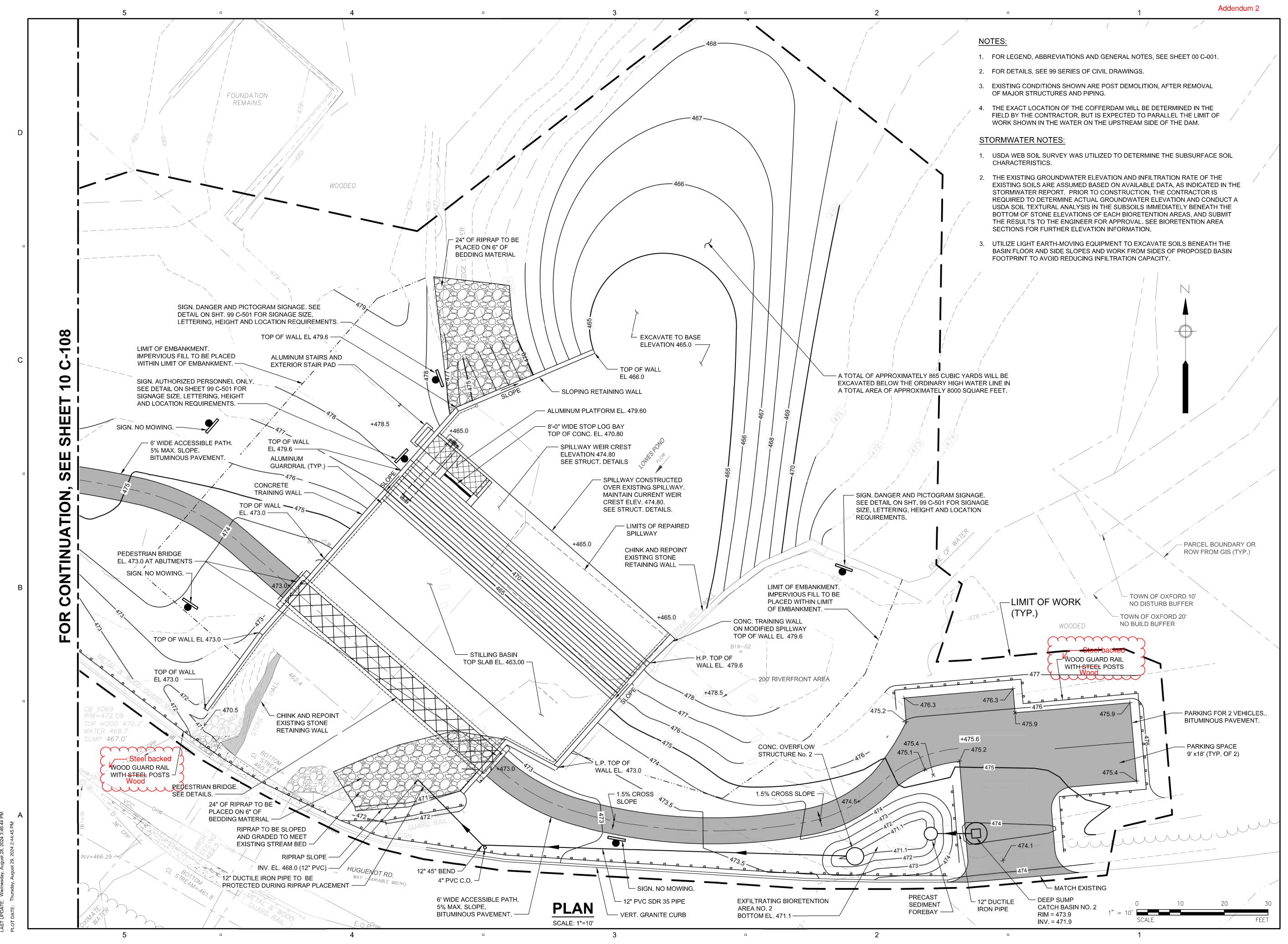
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CIVIL SHEET TITLE

LOWES POND

SITE LAYOUT PLAN II

SHEET NUMBER





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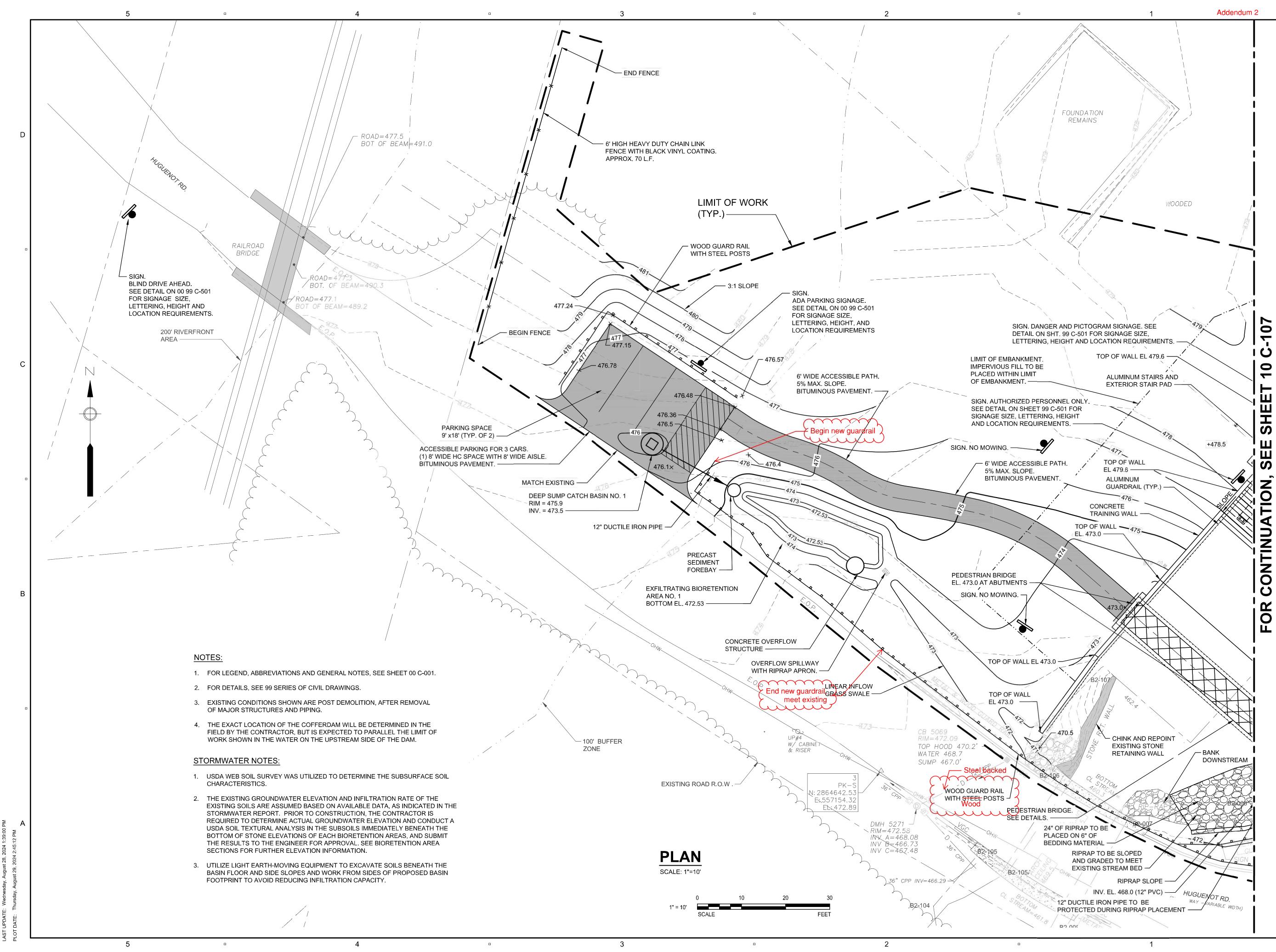
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Designed By:	J.P. MINOIS		
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Dept Check:	C. BENZIGER		
Proj Check:	D. GOVE		
Date:	AUGUST 2024		
Scale:	AS NOTED		

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SHEET TITLE LOWES POND

SITE GRADING PLAN I

SHEET NUMBER



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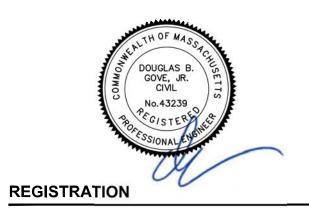
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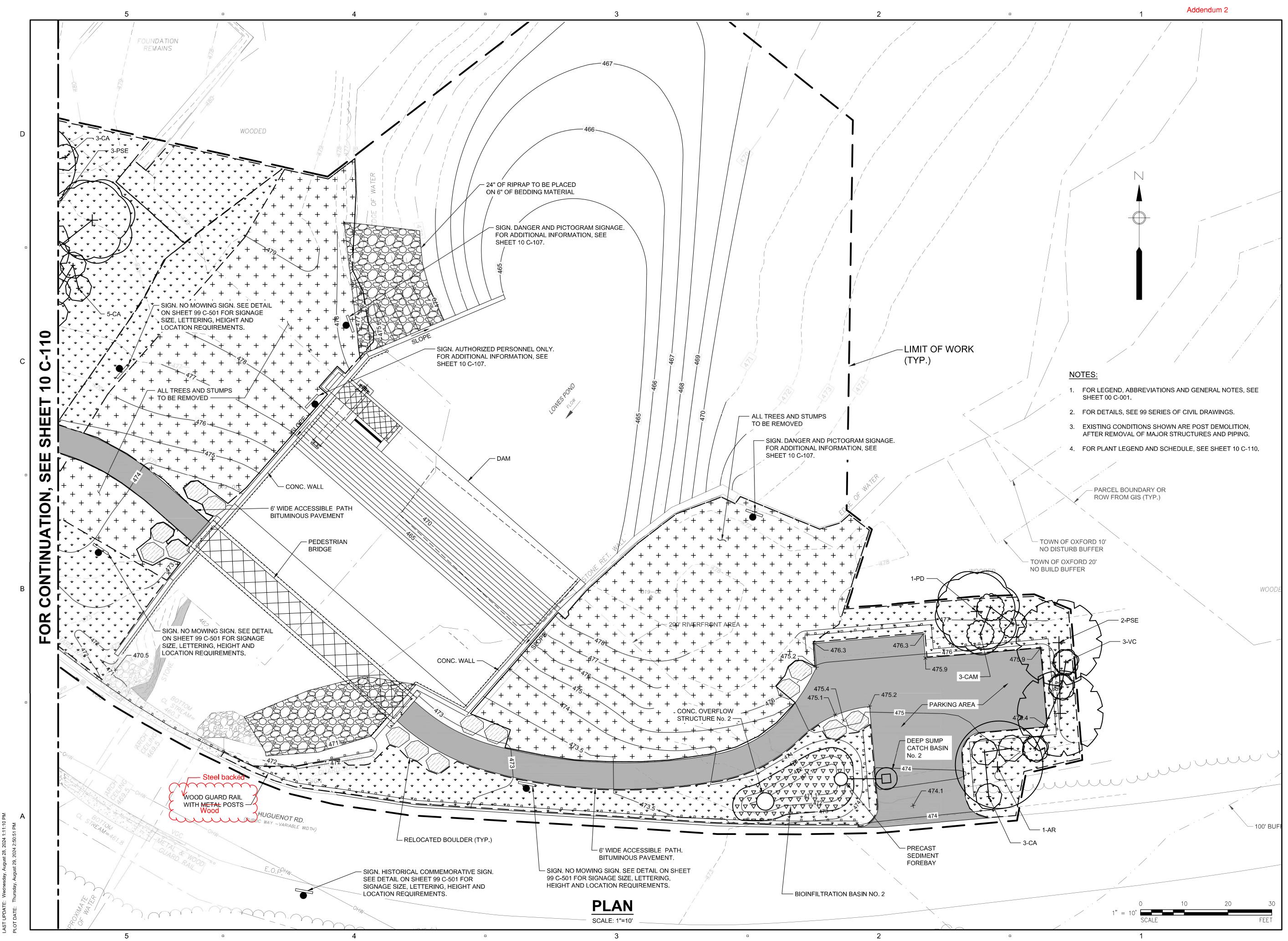
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Drawn By:	M. THIBODEAU	
Designed By:	J.P. MINOIS	

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SITE GRADING PLAN II

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Designed By:	L. DECKER	
Drawn By:	M. THIBODEAU	
Dept Check:	C. BENZIGER	
Proj Check:	D. GOVE	
Date:	AUGUST 2024	
Scale:	AS NOTED	

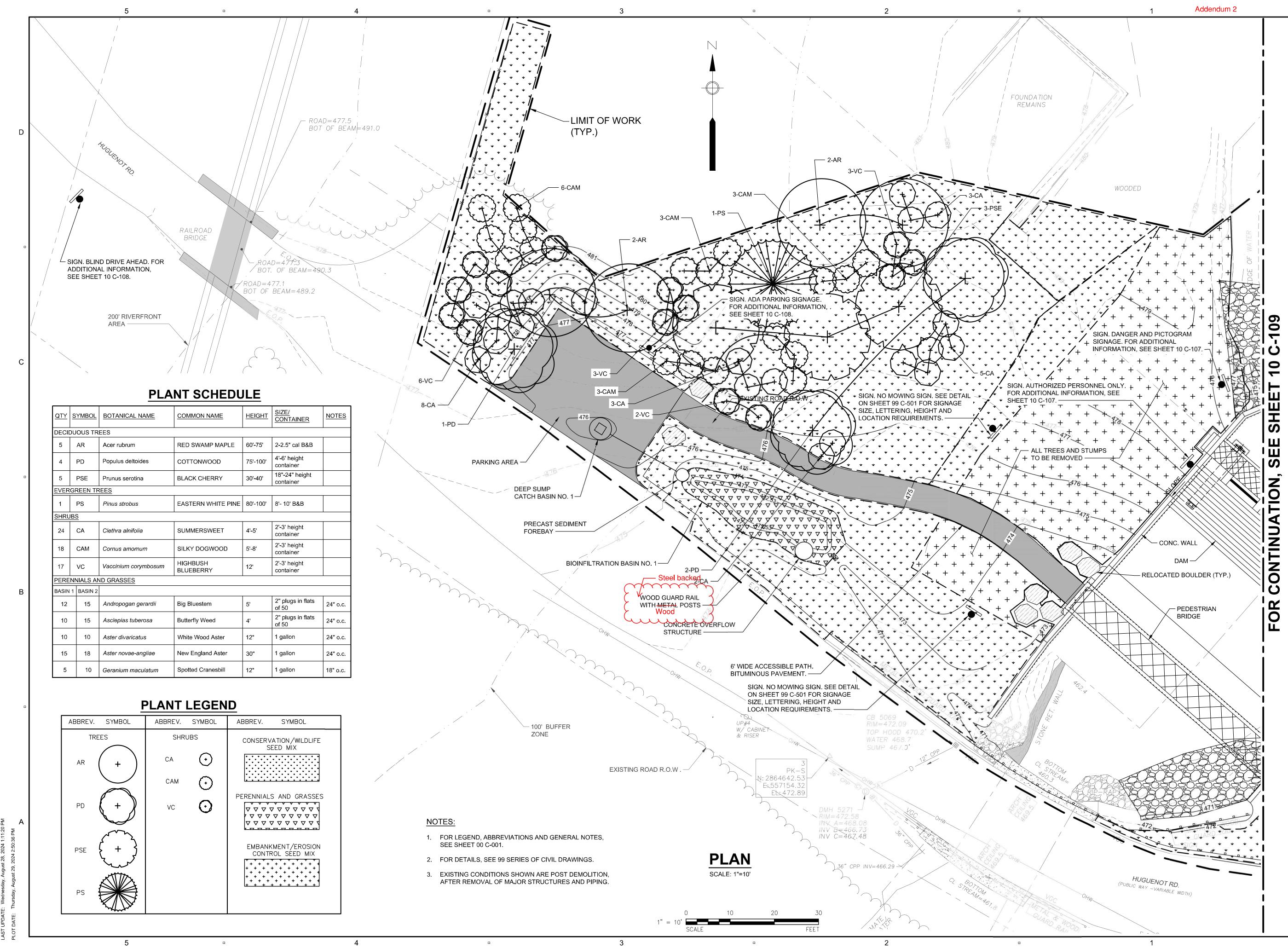
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CIVIL SHEET TITLE

LOWES POND

LANDSCAPE PLAN I

SHEET NUMBER



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MASS DCR ABANDONED DAMS LOWES POND DAM CONTRACT NO. P19-3264-D4A

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Designed By:	L. DECKER			
Drawn By:	M. THIBODEAU			
Dept Check:	C. BENZIGER			
Proj Check:	D. GOVE			
Date:	AUGUST 2024			
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SHEET TITLE

LOWES POND

LANDSCAPE PLAN II

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ξ		GUARD RAIL O	GENERAL NOTES	<u>5:</u>				
ξ		1 ALL DIMENSIONS OF STA		S INCLUDING PANELS POSTS (OFESET BLOCKS BOLTS NUTS WASH	HERS AND HOLES, ARE BASED UPON		
Ę		ENGLISH UNIT CONVERS	IONS OF THE AASHTO-ARTBA-AG			DIZING HIGHWAY BARRIER HARDWARE	Ē	
Ę		(http://www.aashtotf13.org/	Barrier-Hardware.php).					
Ę		2. ALL GUARDRAIL MATERI	ALS SHALL CONFORM TO M8.07.0	UNLESS OTHERWISE INDICATED.				
Ę		3. APPROVAL BY THE ENGI IN THESE STANDARDS O		FERING GUARDRAIL CONFIGURA	TION IS REQUIRED FOR CONSTRUCT	ABILITY BEYOND THE OPTIONS SHOW	Ν	
Ę		4. THE BEGIN OR END STAT	TION LABELS SHOWN IN THESE ST	ANDARDS CORRESPOND TO TH	E STATION AND OFFSET CALLOUTS S	PECIFIED IN THE PLANS.		
Ę		5. USE 12'-6" NOMINAL LEN	GTH PANELS UNLESS OTHERWISE	INDICATED IN THESE STANDARI	DS OR THE PLANS.			
Ę		6. ALL LAP SPLICES SHALL	BE MIDSPAN UNLESS OTHERWISE	SHOWN.				
Ę					OF THE FINAL DIRECTION OF TRAFF	TIC IN THE NEAREST TRAVEL LANE.		
Ę			ES FOR TEMPORARY TRAFFIC CC	\times				
Ę		SINGLE MATERIAL TYPE		NENTIRE RUN OF GUARDRAIL; E	PLANS, FABRICATED TO THE DIMENSION XCEPTIONS ARE ALLOWED ONLY WH			
		9. DEEP POST SHALL ONLY	BE USED WHERE INDICATED IN T	HESE STANDARDS OR THE PLAN	S.			
Ę		10. OFFSET BLOCKS, WHERI	E REQUIRED, SHALL BE TIMBER A	ND FABRICATED TO THE NOMINA	AL DIMENSIONS SHOWN ON 400.1.4. P	LASTIC OR COMPOSITE OFFSET		
Ę		SINGLE MATERIAL TYPE		NENTIRE RUN OF GUARDRAIL; E	TRUCTION MATERIALS LIST MAY BE S XCEPTIONS ARE ALLOWED ONLY WH			
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ξ		TT. PAVEMENT MILLING MUL	CH WHERE CALLED FOR IN THE S	TANDARDS, SHALL CONFORM TO	0 SECTION 739.			
Ę			RS, CONFORMING TO SECTION 60 IN ALL OTHER AREAS UNLESS OTI		TERVALS WITHIN 100' OF AN END TRE	EATMENT OR TRAILING ANCHORAGE		
5		13. MINIMUM OFFSET DISTAL	NCE FROM FACE OF W-BEAM PAN	EL TO A FIXED (NON-BREAKAWA	Y) OBJECT SHALL BE 48" FOR TL-2 AN	ID 60" FOR TL-3.		
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ENERAL NOTES:

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I/R	DATE	DESCRIPTION	

PROJECT NUMBER

60604936		
Designed By:	B. REYES	
Drawn By:	S. NAPOLITANO	
Dept Check:	C. DUNLAP	
Proj Check:	D. GOVE	
Date:	AUGUST 2024	

Designed By:	B. REYES	
Drawn By:	S. NAPOLITANO	
Dept Check:	C. DUNLAP	
Proj Check:	D. GOVE	
Date:	AUGUST 2024	
Scale:	AS NOTED	

Drawn By:	S. NAPOLITANO	
Dept Check:	C. DUNLAP	
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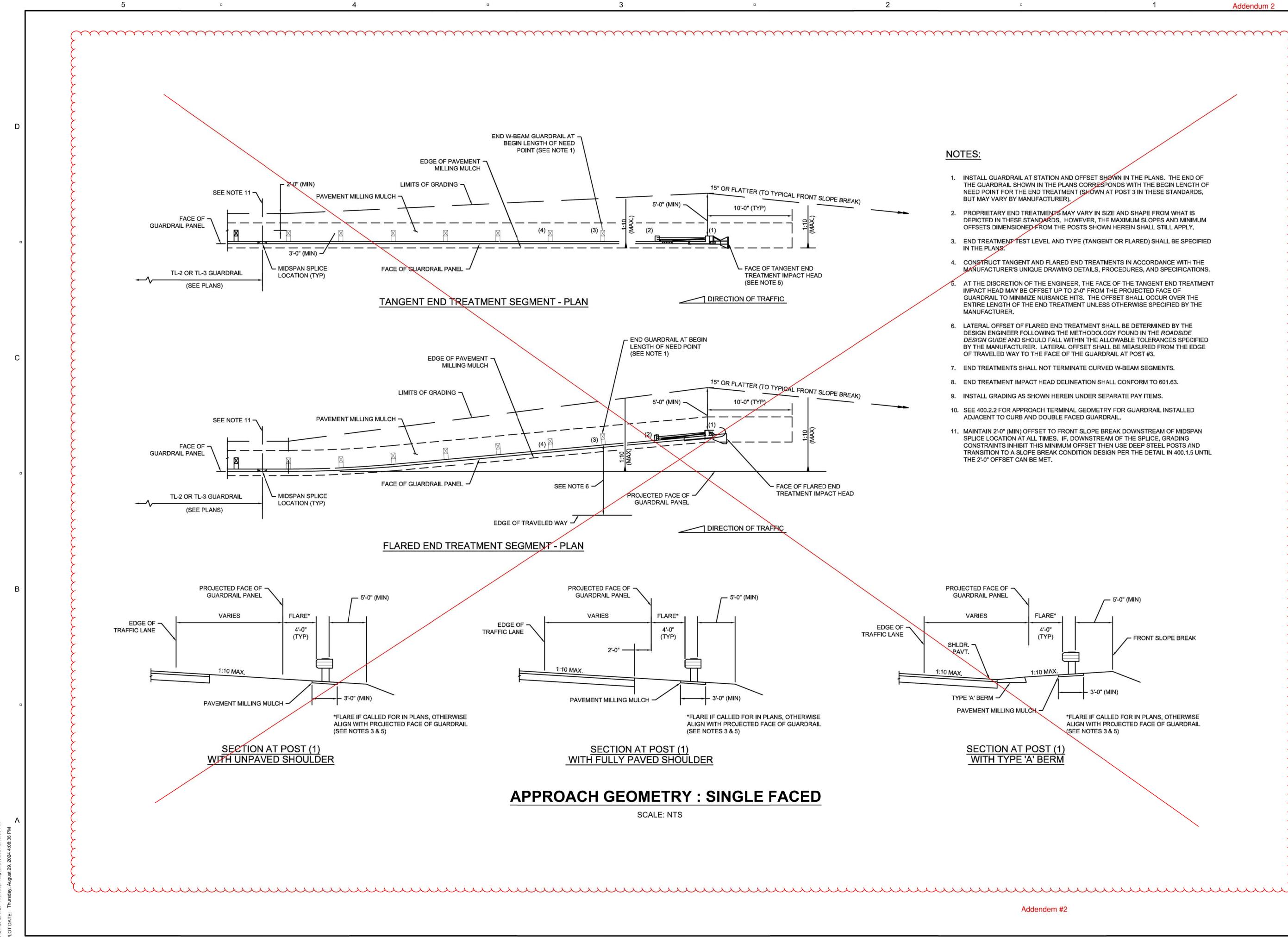
DISCIPLINE

CIVIL SHEET TITLE

LOWES POND

DETAILS VI

SHEET NUMBER



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Drawn By:	S. NAPOLITANO	-
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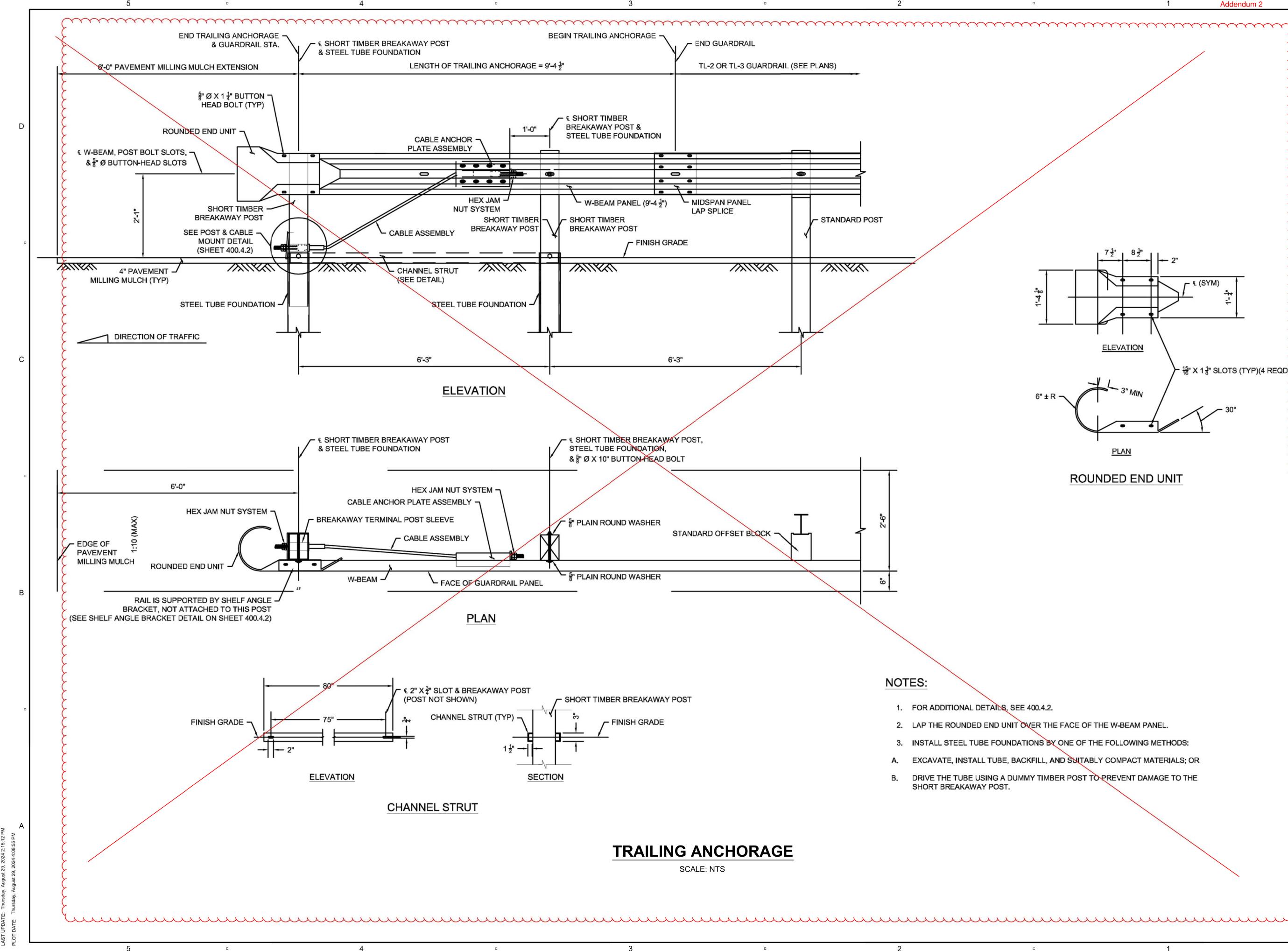
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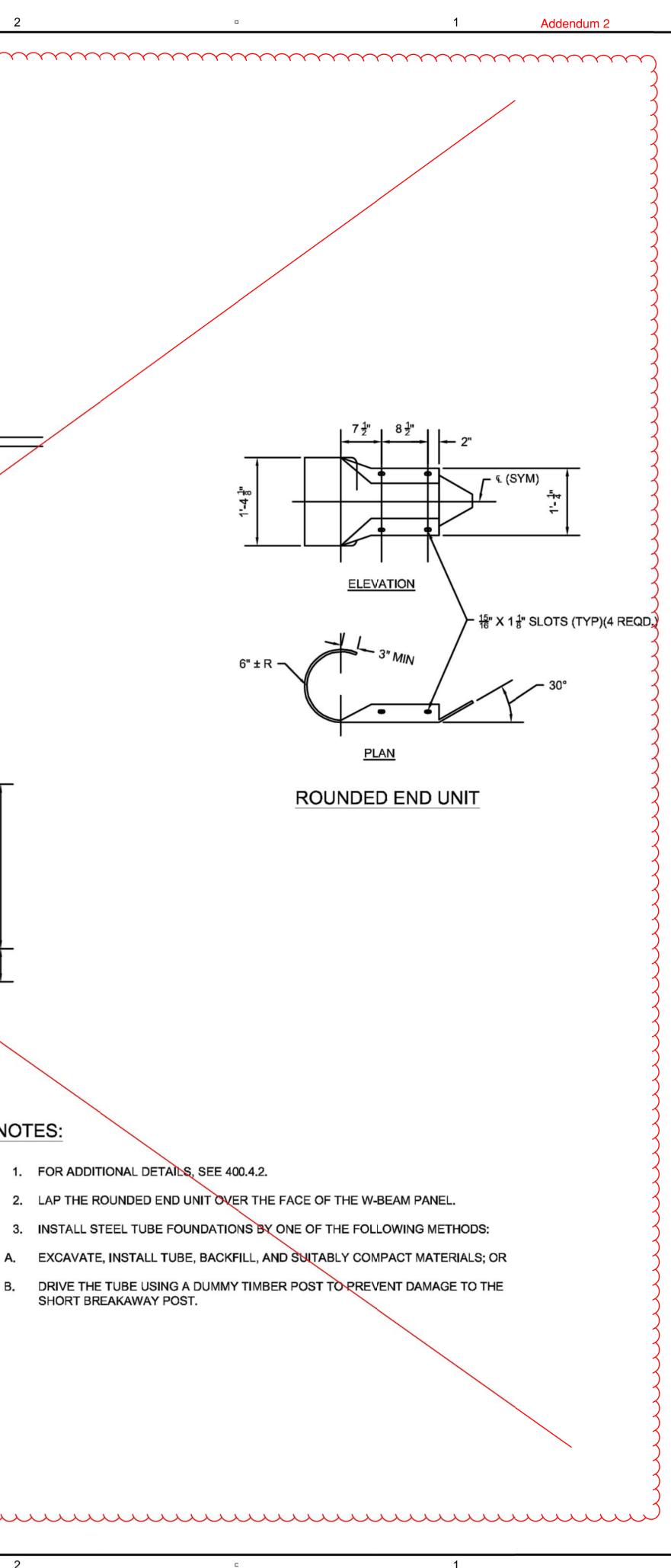
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LOWES POND

DETAILS VIII

SHEET NUMBER





PROJECT

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PROJECT NUMBER

60604936

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Designed By:	B. REYES		
Drawn By:	S. NAPOLITANO		
Dept Check:	C. DUNLAP		
Proj Check:	D. GOVE		
Date:	AUGUST 2024		
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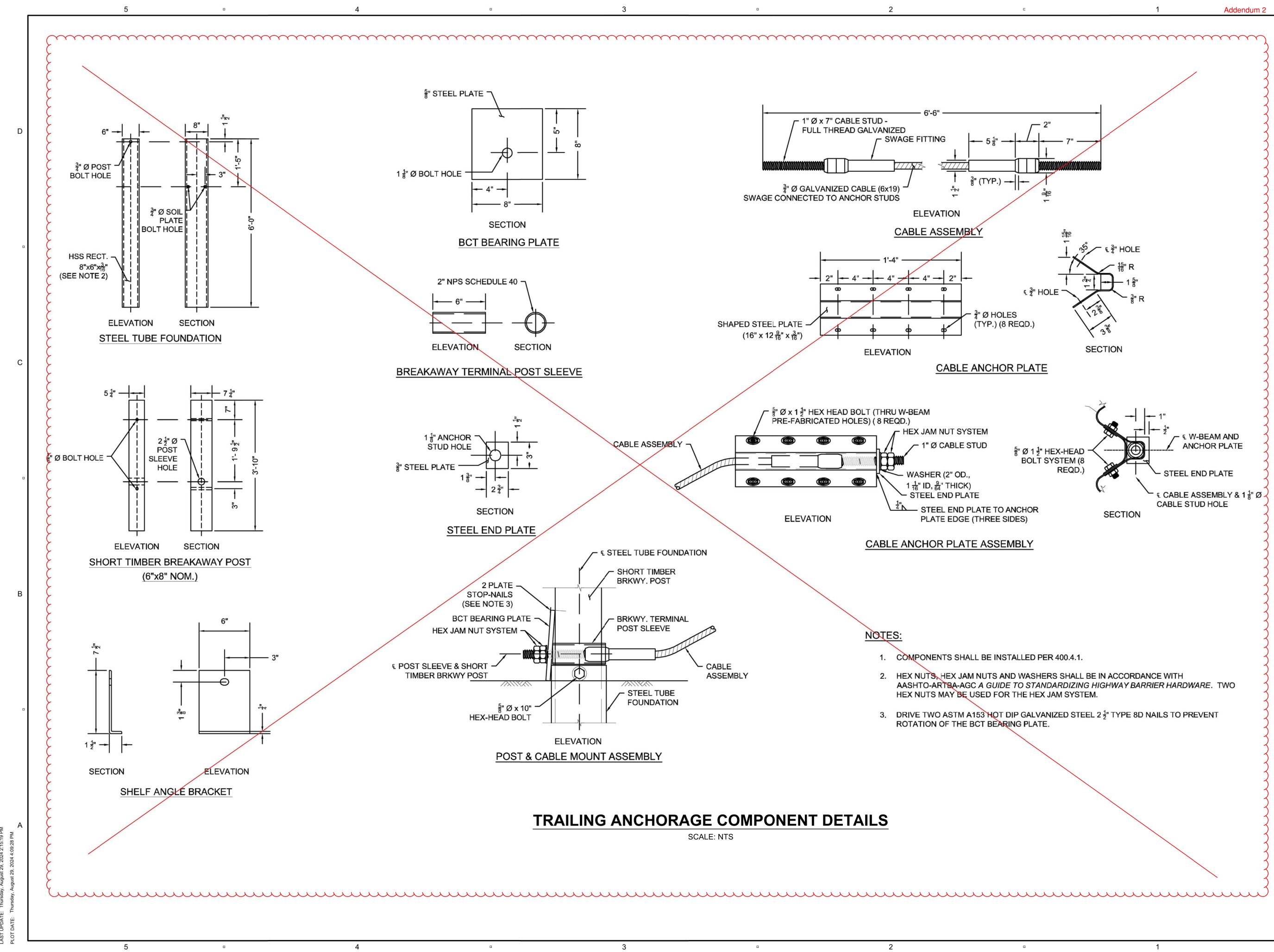
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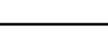
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DETAILS IX

SHEET NUMBER







PROJECT

MASS DCR ABANDONED DAMS LOWES POND DAM CONTRACT NO. P19-3264-D4A

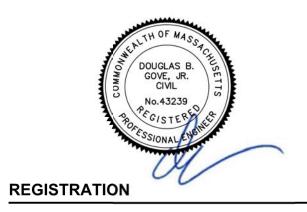
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ISSUE/REVISION

1/5		DESCRIPTION
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PROJECT NUMBER

B. REYES	-
S. NAPOLITANO	_
C. DUNLAP	_
D. GOVE	
AUGUST 2024	
AS NOTED	_
	S. NAPOLITANO C. DUNLAP D. GOVE AUGUST 2024

DISCIPLINE		
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SHEET TITLE	1	

LOWES POND

DETAILS X

SHEET NUMBER

Item #2: Drawings:

Sheet Numbers C-105, C-106, C-107, C-108, C109 and C-110 are being revised Sheet Numbers C-506, C-508, C-509 and C-510 have been removed

Item #3: Submitted questions & responses

1. Can you provide boring log, rock core or other information regarding the bedrock that will be encountered onsite?

AECOM Response: Boring logs are included in Appendix A.

2. Can you please show where and what end treatments are needed on the wooden guardrail.

AECOM Response: End treatments will not be needed.

3. Can you please provide a detail or cross section of the impervious fill to be placed within the limit of the embankment as shown on Drawing C-107?

AECOM Response: All embankment fill below the surficial protection shall be impervious fill, which is specified to contain a minimum of 36% fines passing #200 sieve.

4. Can the estimated 865 cy of silt excavated from behind the dam, be used as the impervious fill?

AECOM Response: No

5. Can you please provide the Prevailing Wage Rates for this project?

AECOM Response: Wage rates are provided with the documents supplied with the advertisement and available through the bid express portal.

6. Is a trailer required for the Resident Engineer or does the Resident Engineer just need an office to use within the Contractor's trailer?

AECOM Response: The Contractor shall provide a suitable office for exclusive use of the Engineer and equip it with, at minimum, amenities that are equal to the Contractors amenities for the temporary field office.

7. Concrete Note #3 on drawing S-001 specifies 4,500 psi concrete. Can you please explain what Item No. 4D Unreinforced 2,500 psi concrete is to be used for?

AECOM Response: The Unreinforced 2,500 psi concrete is used for miscellaneous repairs that may be required that is not included in other bid items. Example: Installation of the Granite Curb will require concrete support.

8. Please confirm that per Specification Section 03300, 1.05 H, the Owner is responsible for hiring a testing agency to perform all onsite & laboratory testing of the concrete placed during construction.

AECOM Response: The Contractor is responsible for submitting the names of the Concrete and Asphalt Plants for review and approval by the DCR. The Contractor shall submit all mix designs to the Engineer and DCR lab for review and approval, shall notify the Engineer and DCR lab a minimum of 1 business day in advance of any Concrete pour or Paving Operation. The Contractor shall coordinate and provide material assistance to the DCR lab for safe access and preparation of any testing materials.

Cement concrete, hot mix asphalt, and gradation testing (sieve analyses) shall be performed by DCR's testing laboratory at 164 Pond Street, Stoneham, MA 02180. For compaction testing and other testing required by the various bid items or by the Engineer, the Contractor shall employ an independent and certified Testing Agency approved by the Engineer. Results from all construction testing shall be forwarded to the Engineer upon receipt by the Contractor.

9. Drawing S-301, Section 1 specifies that #5 bars shall be placed into rock throughout the stilling basin slab, and "*grouted into rock with non-shrink grout*". Can you please specify which non-shrink grout is to be used from the list of grouts presented in Specification Section 03600, 2.03 (i.e. Class I, Class II, Cement Grout, Concrete Grout, Non-Shrink Epoxy Based Grout, etc.)?

AECOM Response: Non-shrink grout shall be Non-shrink Class II Grout per Specification Section 03600-2.03-B.

10. Drawing S-301, Section 1 specifies that #4 Hook Bars shall be drilled and "*epoxied*" into the existing back face of the spillway. Can you please specify which epoxy is to be used from the list of epoxies presented in either Specification Section 03600, 2.03 or Section 03730, 2.03?

AECOM Response: #4 Hook Bars shall be doweled into the existing concrete per 'Dowel Anchorage Into Existing Concrete' and 'Bonding New Concrete to Existing Concrete' Standard Details shown on Sheet 99 S-501. Material shall be in accordance with 'Concrete Anchors' standard notes on Sheet 00 S-001 and Specification Section 05519 – Post-Installed Concrete Anchors.

11. Regarding Drawing S-301, Section 1, are any #4 Hook Bars to be drilled and epoxied into the front face of the spillway?

AECOM Response: #4 Hook Bars shall only be doweled into the front vertical face of the spillway as shown in Section 1 on Sheet 10 S-301.

12. Specification Section 03730, 1.01 G states that the repair work specified herein is intended to cover the requirements for repair of concrete only to a maximum depth of approximately 4-inches. Drawing S-301, Section 1 shows the repair work on the front face of the spillway to be 12 inches thick. Can you please clarify, specifically, the procedure to be followed for repairing the front face of the spillway and exactly which products specified in Section 03730, 2.03 – 2.09 (i.e. epoxy bonding agent, anti-corrosion coating, epoxy crack repair binder, rigid polyurethane crack repair binder, etc.) are to be used in the repair?

AECOM Response: The scope of the spillway remedial work is shown on Section 1 on Sheet 10 S-301. The materials required for the remedial work are reinforced cast-inplace concrete as shown. #4 Hook Bars shall be doweled into the existing concrete per 'Dowel Anchorage Into Existing Concrete' and 'Bonding New Concrete to Existing Concrete' Standard Details shown on Sheet 99 S-501. All surfaces of the existing spillway shall be prepared by following the 'Remove loose or hollow sounding concrete (assume 12" thickness for bid quantities), intentionally roughen existing surface to 1/4" amplitude, and remove all dirt and dust by air or water blasting prior to placing concrete against existing spillway (typ. All exposed surfaces)" callout shown on Section 1 on Sheet 10 S-301. Specification 03730 is provided for required repairing of concrete defects observed in the proposed work, not for the remedial work performed on the existing spillway. Please assume that once existing spillway is chipped down to sound concrete per the direction shown on Section 1 on 10 S-301, that no crack repair will be required prior to placement of reinforced concrete specified.

13. Under which Bid Form Item will the contractor be paid for performing the concrete repair of the existing spillway? How is the Bidder to account for the cost of the concrete repair of the existing spillway, when the extent of the repair work is unknown (i.e. do cracks need to be repaired, if so how many and using what materials, etc.). If you provided a specified clear procedure for the repair and provided assumptions for material quantities to be used, then all Bidders would be bidding on the same scope of work. If that's not possible, then perhaps an Allowance should be used for that work.

AECOM Response: Unsound concrete removal will be paid for under item 3b. New concrete replacing the unsound concrete is paid for under bid item 4b spillway concrete. There is not a separate bid item for concrete repair.

14. Drawing S-301, Sections 2 & 3 state that the undulating rock surface for the spillway shall be prepared per Foundation Notes on Drawing S-001. Foundation Note #7 specifies that the rock surface shall be coated with a *"concrete bonding agent"* prior to concrete placement. Can you please specify the exact concrete bonding agent that is to be used from the products specified in either Specification Section 03300, 03600 or 03730?

AECOM Response: Please use an epoxy bonding agent per the requirements of Specification Section 03300-2.01-J and 03730-2.03, which specify the same product requirements.

15. Is concrete bonding agent to be applied to the rock surface prior to placing the stilling basin concrete?

AECOM Response: Yes, all rock surfaces to receive cast-in-place concrete shall be prepared and treated per the Foundation Note requirements shown on 00 S-001.

16. Drawings C-105 & C-106 describe the wood guardrail as having metal posts. However, the details on Drawing C-507 show timber posts. Please clarify which type of post is required.

AECOM Response: Timber posts are required.

17. Considering that most bidders are probably busy completing projects this fall and that construction on this project will likely not begin until early 2025, would DCR consider extending the bid due date by two weeks until on or about November 7, 2024? This would provide Bidders the time necessary to solicit competitive quotes from suppliers and subcontractors based on the answers to questions raised during bidding.

AECOM Response: The Bid date has been extended to November 7, 2024.

18. Is the Bidder's Item #15 Mobilization lump sum price on the General Bid Form limited to a percentage of the Bidder's total bid price for the project?

AECOM Response: DCR is limiting the Mobilization item to 5% "Maximum limit" of the total for all other bid items. All other considerations not specifically included in other bid items can be built into General Work Conditions Items.

19. The measurement and payment section of the specifications (02000) does not match the actual bid items on the bid form. Please clarify.

AECOM Response: Several items listed in the Measurement and Payment section include multiple items shown in the bid form. Contract payments will be by the items listed on the bid form.

- 20. There are a number of important water surface elevations stated in the plans and specs. They are:
 - Existing spillway crest 474.80
 - Maximum temporary cofferdam elevation 474.80 (due to the FEMA regulated Special Flood Hazard Area)

- Drawdown elevation 471.00
- Ordinary high water 476.00
- Max WS 477.50 (which may just be a maximum theoretical surface based on the remedial designs)

The specifications state that for a 2 year storm (3.27 inches over 24 hours) when the pond is at the 471.00 drawdown elevation, the temporary cofferdam at the stated max elevation of 474.80 will should contain the precipitation from that storm (we understand that there would by concurrent bypass as well). The specifications also state that bypass pumping is required, and there is some H&H information provided on the plans. Bid Item 2B is for a "Temporary remobilization after storm event (4 Ea)," but there isn't a measurement and payment section that describes what triggers this bid item. Is the event that is intended to trigger this item an event that causes overtopping of the temporary cofferdam, regardless of what the water surface elevation was at and/or what the contractor uses for a water bypass system? Is this bid item to include any and all repairs required based on damage from such an event?

AECOM Response: The contractor is expected to maintain a water elevation of 471.00 during construction. It is anticipated the storage remaining, along with the bypass flow will be capable of handling a 2 year storm (3.27 inches over 24 hours) as specified in section 01063 Miscellaneous Requirements paragraph 1.04.E.4" rain event over a 24-hour period. The specifications will be revised to indicate the item will be for rain events of 4.00 inches or more over 24-hour period.

21. We are concerned that the maximum allowable temporary cofferdam elevation is set at 474.80 knowing that the ordinary high-water level is 476.00. With the H&H information provided, and specifically the flows expected during storm events that are larger than the 2-year storm, it is difficult to contemplate what the expectations are for water bypass pumping during the work. Due to the very large and exposed excavations that will be required to reconstruct the spillway and training walls, an overtopping event is not desired – whether there is a payment for remobilization after a storm event or not. Please reconsider the maximum allowable top of cofferdam.

AECOM Response: Please see the response to question 20.

22. On the new guardrail being installed the detail seems to contradict what the plans are saying. The site layout plan C-105 and C-106 call out for wood guardrail with steel post which is what is out on site currently. The detail on C-507 shows steel backed guardrail with wood posts and detail C-508 shows a steel guardrail with wood post.

AECOM Response: Steel backed wood guardrail with wood posts is correct as shown on C-507. Callouts on Drawings C-105, C-106, C-107, C-108, C109 and C-110 are being

revised with this addendum. This addendum is removing sheets C-506, C-508, C-509 and C-510 to eliminate contradiction.

23. Site plans reference wood guardrail with steel posts – detail sheet 99 c-507 shows steel backed timber guardrail with wood posts – please clarify. Steel backed timber guardrail is available with steel posts.

AECOM Response: See response to question 22.

24. End terminal details on sheets 99 c-508, 99 c-509 show terminals that are compatible to a W-beam guardrail system. Proposed guardrail is steel backed timber guardrail. These are 2 totally different systems – please clarify. Due to the type of guardrail installation on this project end terminals are not warranted. Low speed traffic and parking spaces. please confirm.

AECOM Response: End terminals are not warranted.