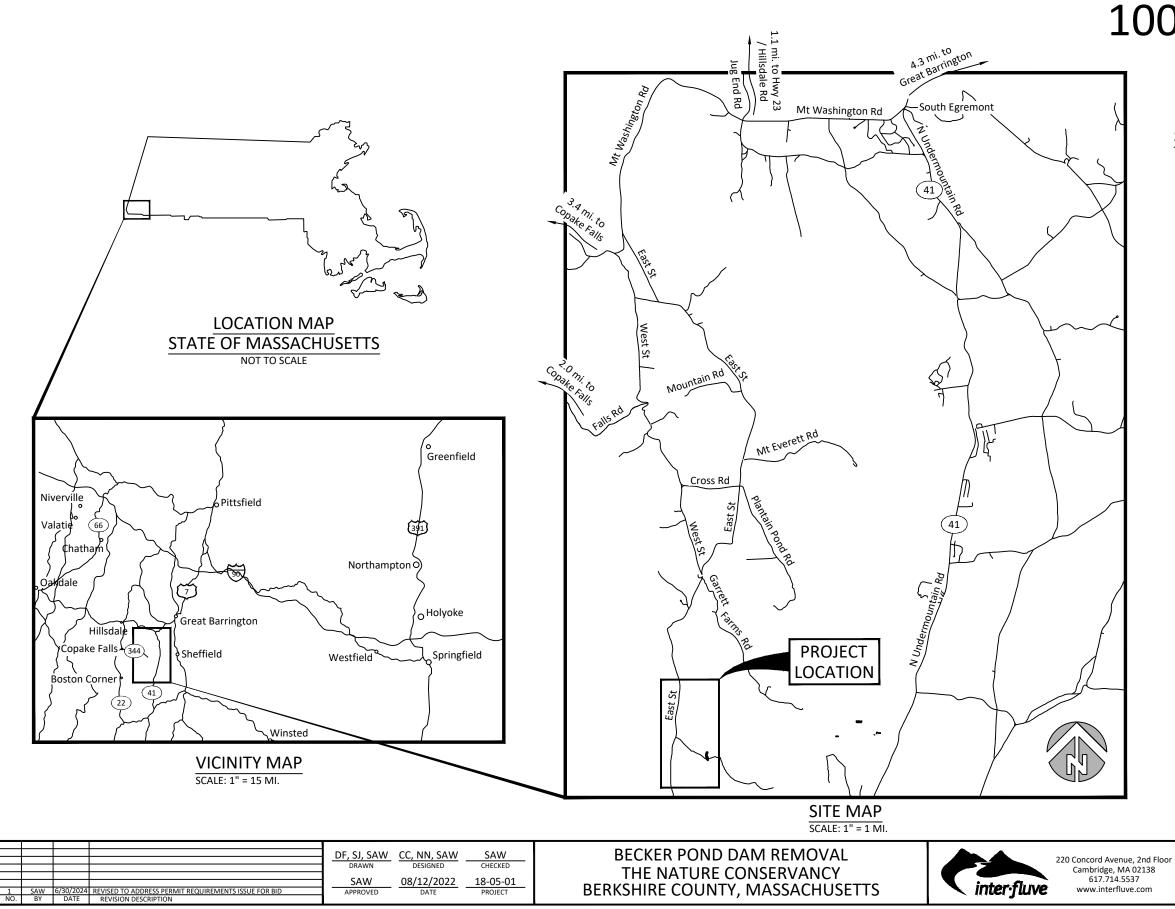
BECKER POND DAM REMOVAL 100% DESIGN PLANS JUNE 30, 2024



SHEET LIST

- Cover, Location, and Sheet List 1.
- 2. Notes
- 3. Existing Conditions, Ownership and Survey Control
- Access and Staging, Erosion, and Sediment Control 4.
- 5. **Existing Conditions**
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- Pilot Channel Plan and Profiles STA 2+75 to STA 5+75 7.
- Pilot Channel Plan and Profiles STA 5+75 to STA 8+00 8.
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- 11. Pilot Channel Construction Cross Sections
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- 13. Surface Fabric Treatment Details
- 14. Resource Area Impacts



COORDINATES: LATITUDE 42°03'29.88" N LONGITUDE 73°27'33.12" W

MOUNT WASHINGTON, BERKSHIRE COUNTY, MASSACHUSETTS

WATERBODY: BECKER POND TRIBUTARY OF: SHENOB BROOK AND HOUSATONIC RIVER

Issued for Bid

COVER, LOCATION AND SHEET LIST

1 OF 14

SHEET

GENERAL NOTES

- 1. The Contractor shall notify "dig-safe" (888)-344-7233 at least 72 hours prior to excavation.
- 2. All excavation must be accomplished in accordance with all Federal (e.g., OSHA), State, and local regulations.
- 3. The Contractor shall be responsible for site security and job safety, construction activities.
- 4. Work within local rights-of-way shall conform to local municipal standards; work within state rights-of-way shall conform to the latest edition of the state highway departments standard specifications for highways and bridges.
- 5. All project activities including, but not limited to, active work, site preparation, staging, and stockpiling shall take place within the Limit of Work as shown on the plans. If it is determined that the Limit of Work needs to be moved or expanded, notify the project Owner to initiate coordination with relevant regulatory agencies. No work shall occur outside the Limit of Work shown on the plans without proper approvals.
- 6. Upon award of contract, Contractor shall make necessary construction notifications and apply for and obtain necessary permits, pay fees, and post bonds associated with the work indicated on the drawings, in the specifications, and in the contract documents (including the Permits).
- 7. Damage to public and/or private property resulting from project work shall be repaired by the Contractor at no additional cost to the Owner.
- 8. Areas disturbed during construction and not within the restoration footprint shown on the Drawings shall be restored to conform with the previous undisturbed condition. Document pre-disturbance conditions with photographs to assist and inform the restoration activities.
- 9. In the event that suspected contaminated soil, groundwater, or other media are encountered during excavation and construction activities based on visual, olfactory, or other evidence, the Contractor shall stop work in the vicinity of the suspect material to avoid further spreading of the material, and shall notify the Owner immediately so that the appropriate testing and subsequent action can be taken.

ACCESS AND EASEMENTS

- 1. The Base Bid calculation will include the Add/Alt for Access Alternative 1. Assume the Owner will obtain a temporary access easement from the property owners (7-0/5 Collins/Benjamin). Use of this access alternative shall not prevent the property owner's free use of the shed.
- 2. Provide an Add/Alt bid for construction and post-project restoration of Access Alternative 2.

EROSION AND SEDIMENTATION CONTROL

- 1. This project requires a NPDES Construction General Permit (NPDES CGP). No later than 14 days prior to the start of construction, the Contractor shall prepare a SWPPP and file an eNOI in accordance with the permit requirements. The Contractor shall be responsible for maintaining compliance with all elements of the NPDES CGP throughout the duration of construction.
- 2. The Contractor shall be responsible for identifying types and locations for stormwater erosion and sedimentation control (E&SC) measures that may be necessary to maintain compliance with the NPDES CGP. All E&SC measures should remain within the limit of work shown on these plans.
- 3. The Contractor shall control stormwater runoff during construction to prevent adverse impacts to off-site areas and shall be responsible to repair resulting damages, if any, at no cost to the Owner.
- 4. Prior to starting any other work on the site, the Contractor shall install erosion control measures as shown on the plans and additional measures, if necessary, as identified and/or required in federal, state, and local approval documents pertaining to this project. Approval must be granted by the Town of Mount Washington's Conservation Agent before additional work may commence.
- 5. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. Erosion controls shall be inspected and maintained on a daily basis until the site is stabilized. Erosion problems shall be reported in accordance with all relevant permits.
- 6. Upon completion of construction and establishment of permanent ground cover, or other vegetation, and following authorization by the Town of Mount Washington's Conservation Agent, the Contractor shall remove and dispose of erosion control measures and clean sediment and debris from the project site.

UTILITIES

- 1. There are no known utilities beyond the public right-of-way. Prior to beginning construction, the Contractor shall verify and determine the exact locations, sizes, and elevations of the existing utilities and, shall confirm that there are no interferences with existing utilities, including routes within the public right-of-way. If an existing utility is found to conflict with the proposed work, the location, elevation, and size of the utility shall be accurately determined without delay by the Contractor, and the information furnished in writing to the Engineer for the resolution of the conflict. Contractor's failure to notify prior to performing additional work releases Owner from obligations for additional payments with otherwise may be warranted to resolve the conflict.
- 2. Any utility infrastructure that is damaged during the performance of the work shall be replaced in kind at no cost to the Owner.
- 3. The contractor shall make arrangements for and shall be responsible for paying fees for any relocation, alteration, and/or adjustment of utilities, whether work is performed by Contractor or by the utilities company.

SCHEDULE AND TIME OF YEAR RESTRICTIONS FOR SENSITIVE SPECIES

- 1. Project work performed during the inactive season between November 1 and April 14 may proceed without restrictions.
- 2. If project work must extend into the active season, between April 15 and October 31, it will be subject to special conditions. Refer to the Specifications and permit NHESP File No. 18-37448 and attachments.

tsActive					DF, SJ, SAW	CC, NN, SAW	SAW CHECKED
L:\Proiects/	1	SAW BY	6/30/2024 DATE	REVISED TO ADDRESS PERMIT REQUIREMENTS ISSUE FOR BID REVISION DESCRIPTION	APPROVED	08/12/2022 DATE	18-05-01 PROJECT

LAYOUT AND MATERIALS

- 1. Any existing property line monumentation disturbed during construction shall be set or reset by a professional licensed surveyor.
- transitions between existing and proposed features.
- 3. Symbols and legends of project features are graphic representations and are not necessarily scaled to their actual dimensions or locations on the drawings. The Contractor shall refer to the detail sheet dimensions, shop drawings, and field measurements of supplied products for layout of the project features.
- 4. Contractor shall not rely solely on electronic versions of plans, specifications, and data files that are obtained from the designers, but shall verify location of project features in accordance with the paper copies of the plans and specifications that are supplied as part of the contract documents.

DEMOLITION

- 1. The Contractor shall remove and dispose of demolition debris and existing man-made surface features within the Limit of Work, including concrete, metal, and statutes.
- presence, discovery, removal, abatement or disposal of hazardous materials, toxic wastes or pollutants at the project site. The Engineer shall not be

EXISTING CONDITIONS

- 1. The horizontal datum for this drawing set is NAD83 Massachusetts state plane. The units are in feet.
- 2. The vertical datum for this drawing set is NAVD88. The units are in feet.
- dataset (circa 2019).
- 4. The existing condition, site specific bathymetric and depth of refusal survey was performed by Inter-Fluve in April, 2018.
- 5. The property lines shown on the plans are approximate. The parcel data was provided by TNC circa 2019.
- 6. The trail alignments were provided by TNC circa 2019.
- 7. The field-delineated resource areas were identified in the field by BSC Group on May 16, 2022 using handheld GPS with sub-meter accuracy

PERMITS and Licenses:

All work shall be conducted in accordance with all applicable local, state, and federal permit requirements, including, but not limited to the following:

- 1. Mount Washington, Restoration Order of Conditions, MassDEP FILE # 232-0046
- 2. MassDEP 401 Water Quality Certification for Dredging, # 23-2226-0005-APP 3. NHESP FILE, #18-37448
- 4. U.S. Army Corps of Engineers Section 404 permit, #NAE-2020-01622
- 5. EEA, #16226

BECKER POND DAM REMOVAL

THE NATURE CONSERVANCY

BERKSHIRE COUNTY, MASSACHUSETTS

6. Chapter 91



220 Concord Avenue, 2nd Floor Cambridge, MA 02138 617.714.5537 www.interfluve.com

2. Prior to the start of construction, the contractor shall verify existing elevations at the control points, the dam crest, and the channel invert to assure proper

5. Any and all mesh construction materials must conform to the requirements described in the permit conditions provided by the Massachusetts Division of Fish and Wildlife. Refer to the Specifications and permit NHESP File No. 18-37448 and attachments. Pre-authorized materials include (1) standard, black silt fencing (i.e., 36-in wide, tightly woven), (2) orange safety fencing (aka barrier or snow fencing) with nominal 2" or greater openings installed tightly between supports and with a 6" minimum gap along the ground, and (3) chain-link fencing with 2" or greater openings and installed with a 6" minimum gap along the ground.

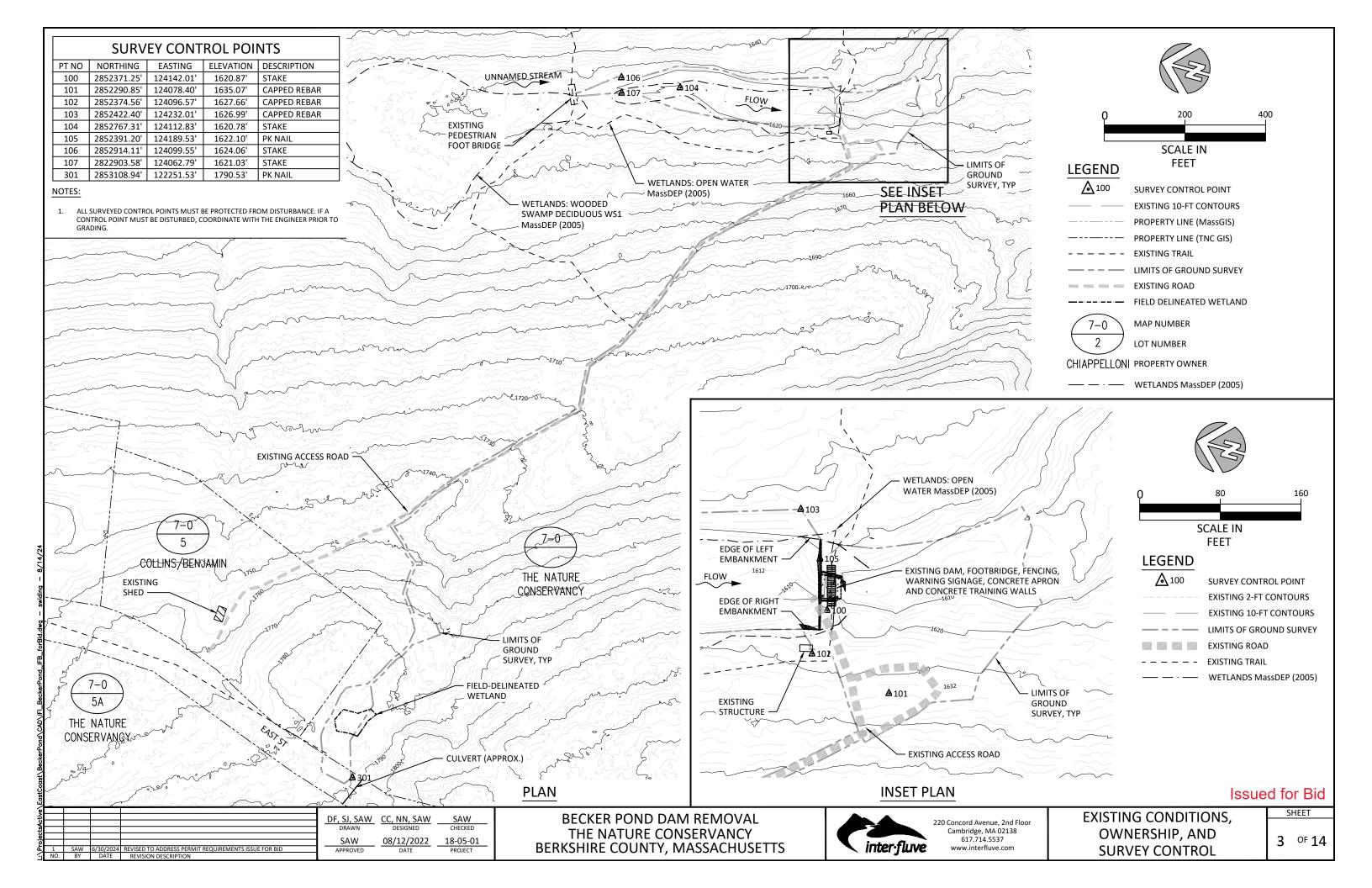
masonry and wood associated with the dam, at an appropriate off-site facility in accordance with applicable federal, state, and local regulations, ordinances,

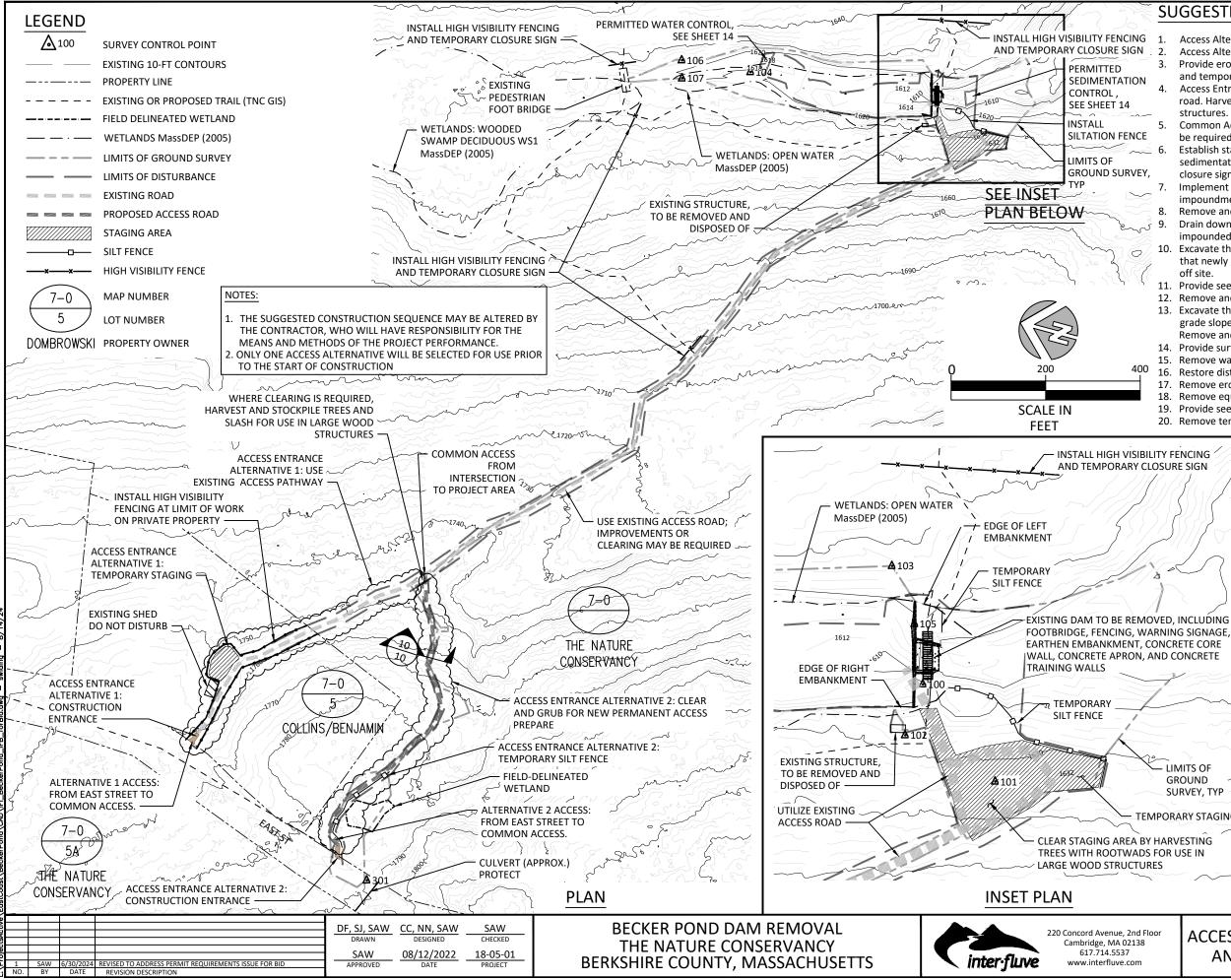
2. Unless otherwise specifically provided on the plans or in the specifications, the Engineer has not prepared designs for and shall have no responsibility for the responsible for any claims of loss, damage, expense, delay, injury or death arising from the presence of hazardous material and Contractor shall indemnify and hold harmless the Engineer from any claims made in connection therewith. Moreover, the Engineer shall have no administrative obligations of any type with regard to any Contractor amendment involving the issues of presence, discovery, removal, abatement or disposal of asbestos or other hazardous materials.

3. The existing condition, site specific, topographic survey was performed by Inter-Fluve in April, 2018 and May, 2019. The limit of survey boundary identifies the limits of this survey. Contours beyond the limit of survey boundary are derived from the 2016 USGS CONED topobathymetric model (1887-2016) New England

NOTES

SHEET





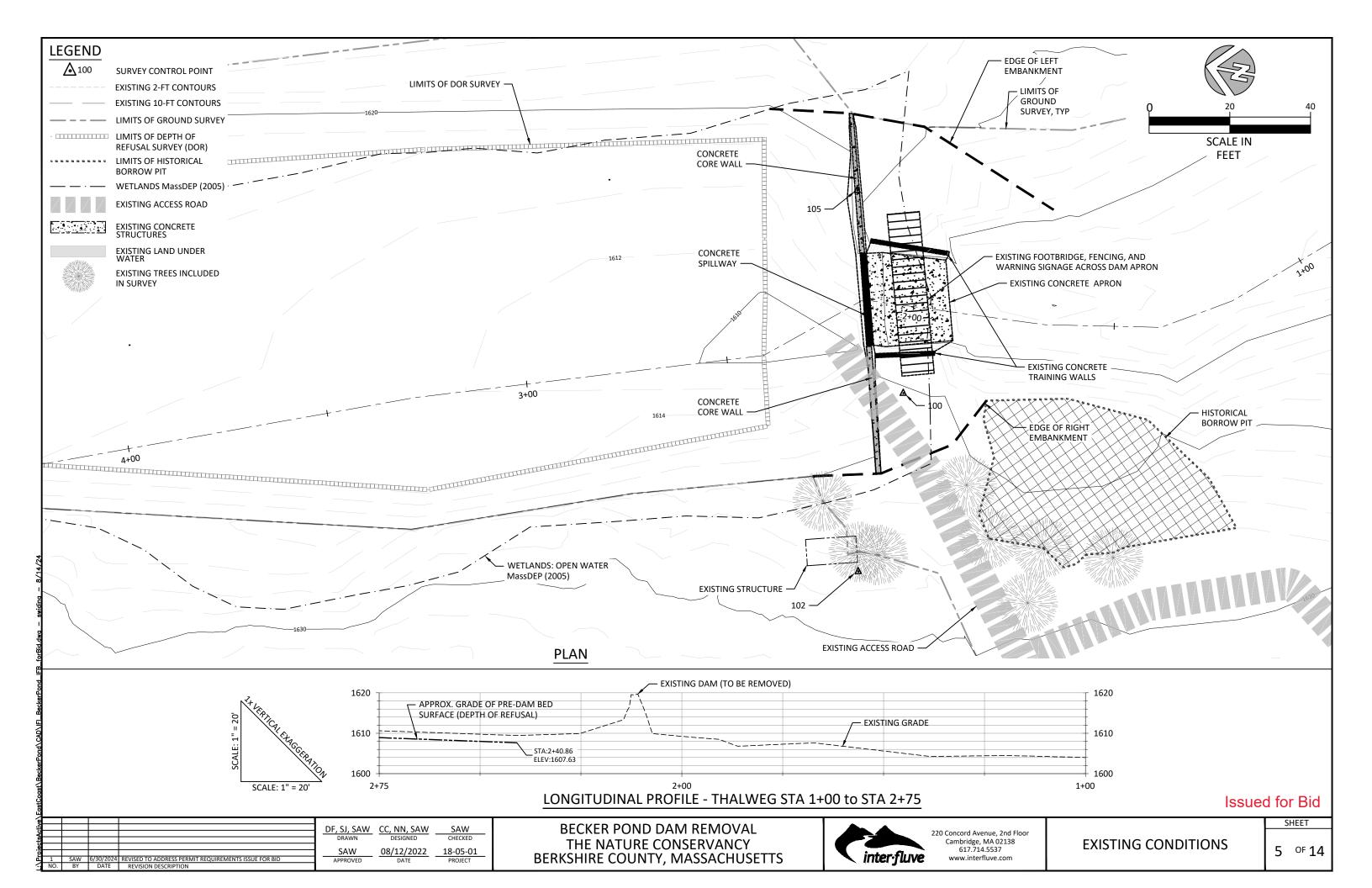
SUGGESTED CONSTRUCTION SEQUENCE Access Alternative 1 or 2: Establish construction entrance at East Street 1 Access Alternative 1: Establish staging area. Provide erosion and sedimentation control BMPs, high visibility fencing, and temporary closure signs. Access Entrance Alternative 2: Clear and grub for new permanent access road. Harvest and stockpile trees and slash for use in large wood structures. Common Access: Prepare common access. Improvements or clearing may be required. Establish staging area adjacent to the dam. Provide erosion and 6 sedimentation control BMPs, high visibility fencing, and temporary closure signs Implement water management plan. Pump flow around the impoundment Remove and dispose of footbridge, signs, and fencing. 8 Drain down the impoundment in such a way that the release of impounded sediment is minimized. 10. Excavate the pilot channel when sediment is sufficiently drained such that newly graded pilot channel banks do not slump. Dispose of sedimen off site. 11. Provide seed and large wood structures along the pilot channel. 12. Remove and dispose of the spillway and training walls. 13. Excavate the earthen embankments, fill the historical borrow pit and grade slopes as shown on plan. Dispose of excess material off site. Remove and dispose of the concrete core walls. 14. Provide surface fabric, remaining seed, and plantings within limits shown 15. Remove water management controls. 400 16. Restore disturbed areas to a suitable condition. 17. Remove erosion and sedimentation controls. 18. Remove equipment 19. Provide seed along the new permanent access (Alternative 2 only). 20. Remove temporary fencing and signs. INSTALL HIGH VISIBILITY FENCING 160

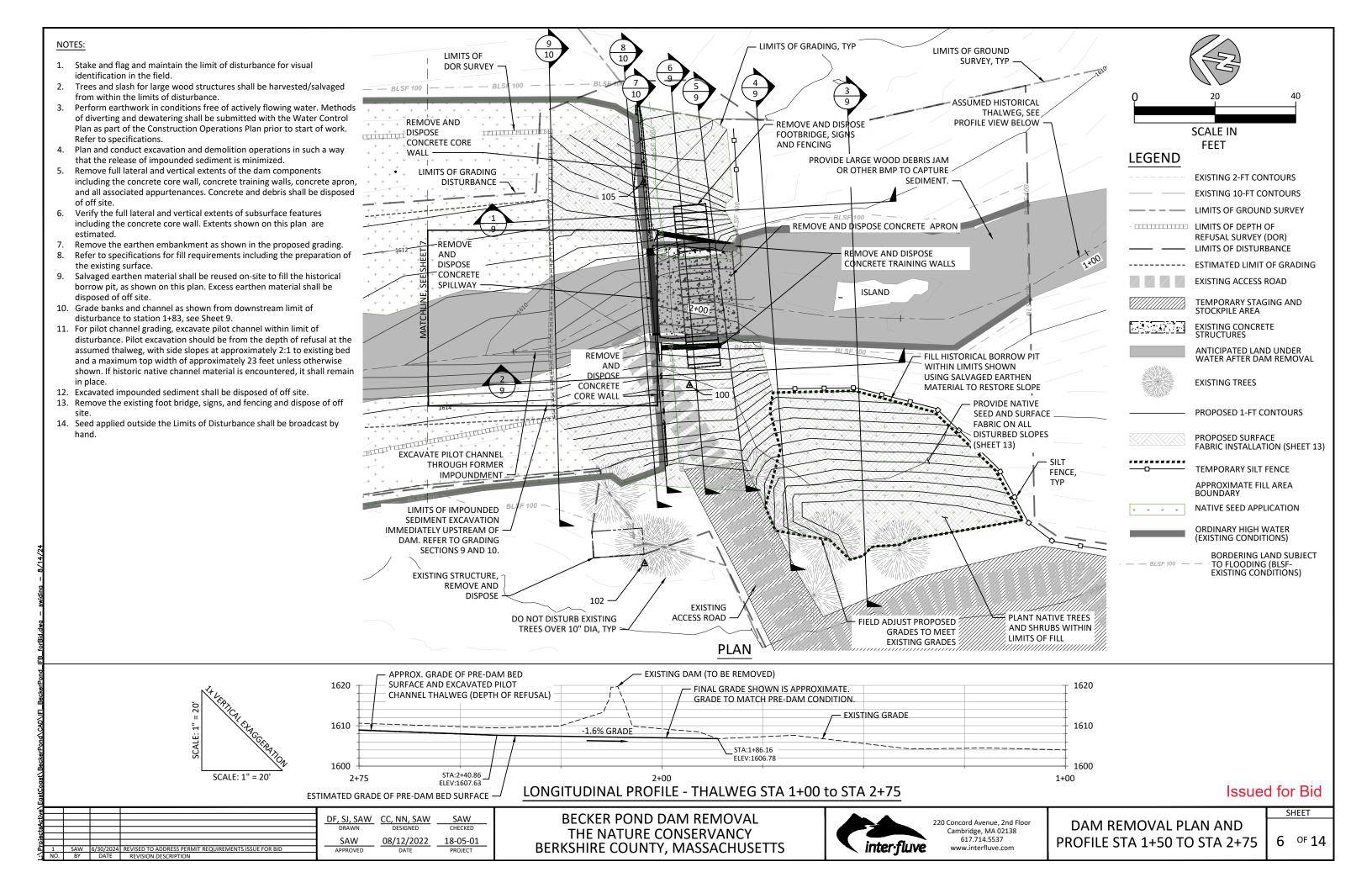
– LIMITS OF GROUND SURVEY, TYP

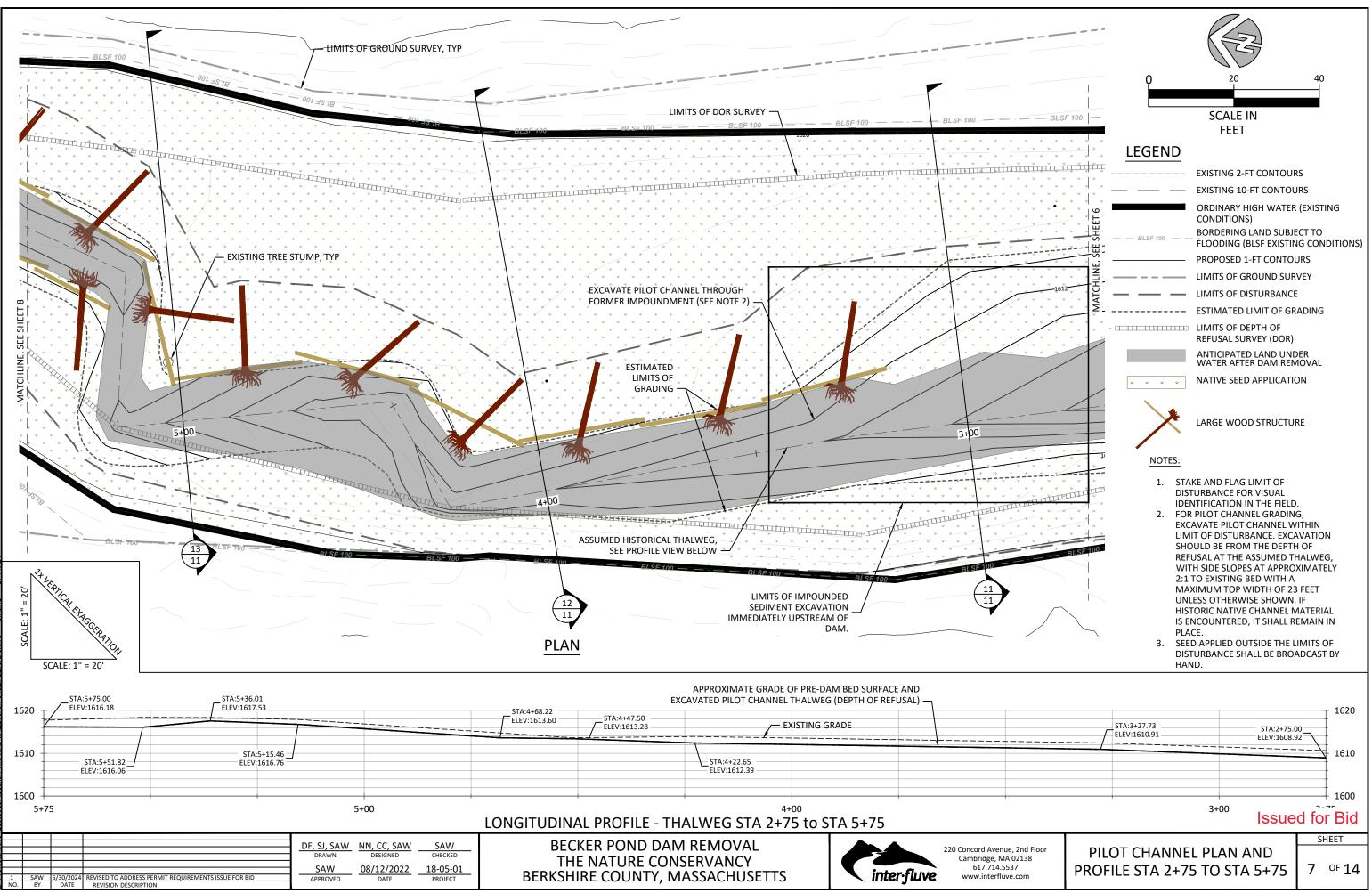
TEMPORARY STAGING

S	CALE IN
LEGEND	FEET
<u>A</u> 100	SURVEY CONTROL POINT
	EXISTING 2-FT CONTOURS
	EXISTING 10-FT CONTOURS
<u> </u>	WETLANDS MassDEP (2005)
	LIMITS OF GROUND SURVEY
	LIMITS OF DISTURBANCE
ZZZZ	EXISTING ROAD
	STAGING AREA
o	SILT FENCE
xx	HIGH VISIBILITY FENCE
	EXISTING OR PROPOSED TRAIL (TNC GIS)
	Issued for Bid

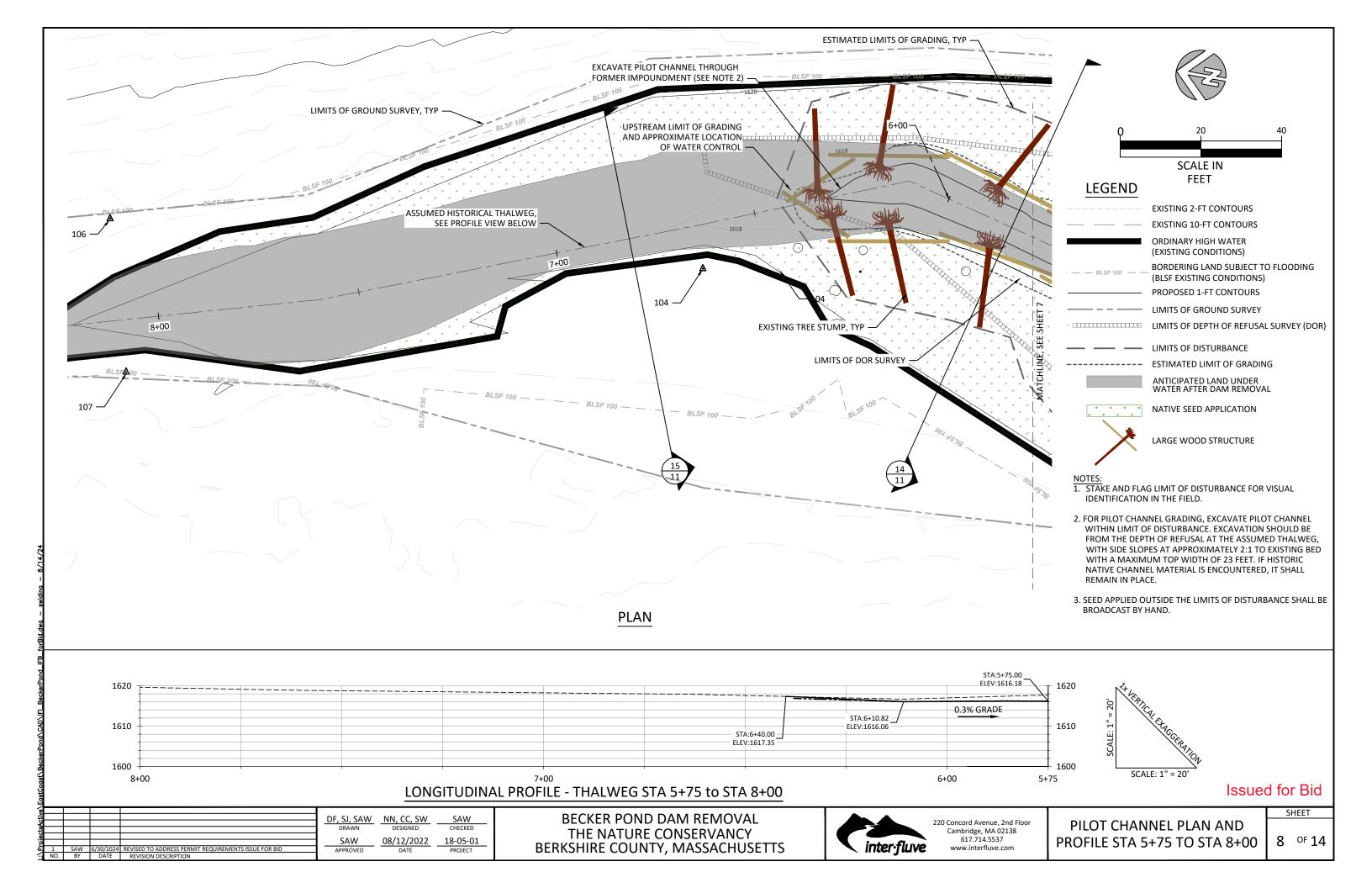
SHEET ACCESS AND STAGING, EROSION 4 OF 14 AND SEDIMENT CONTROL

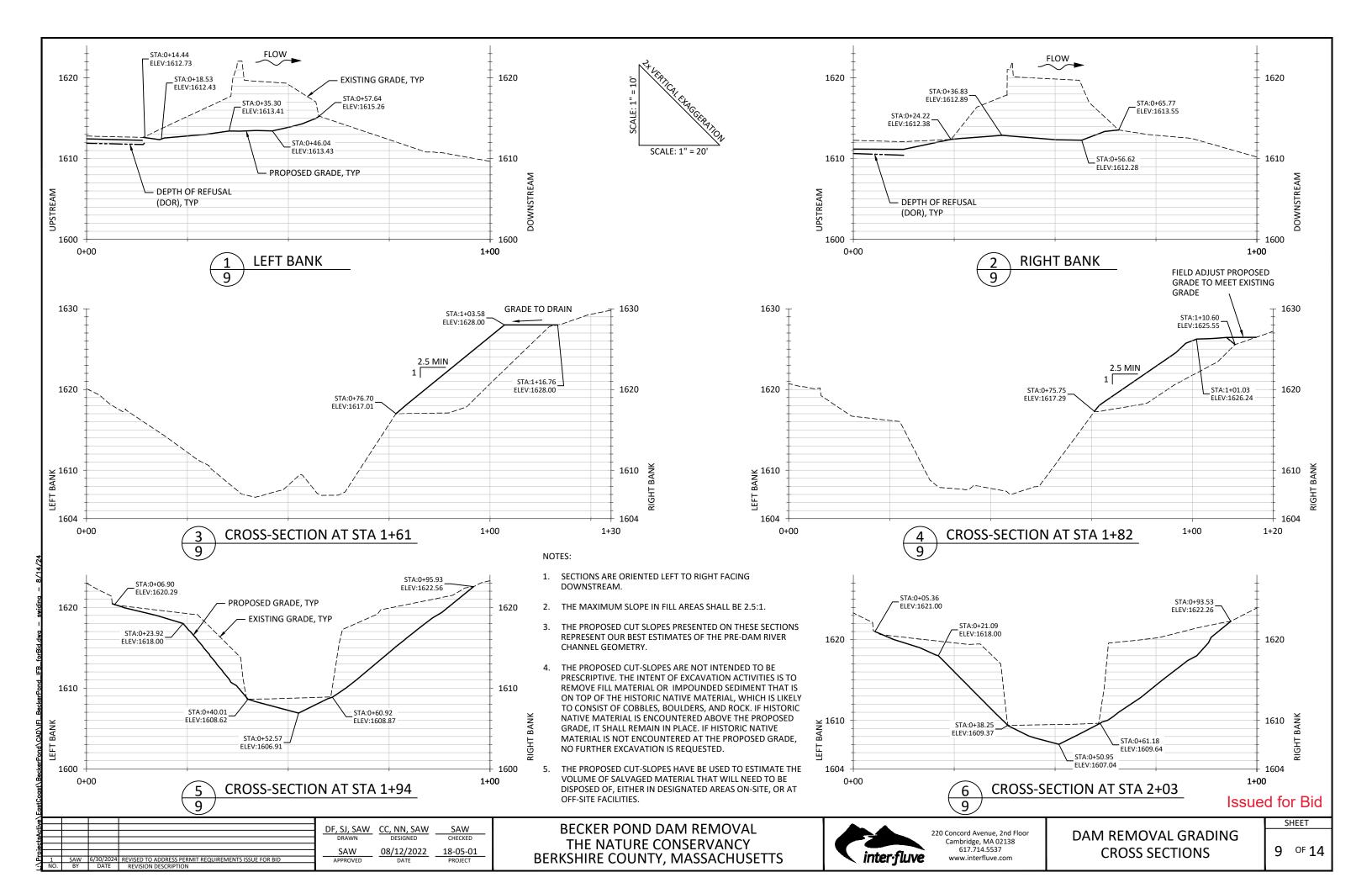


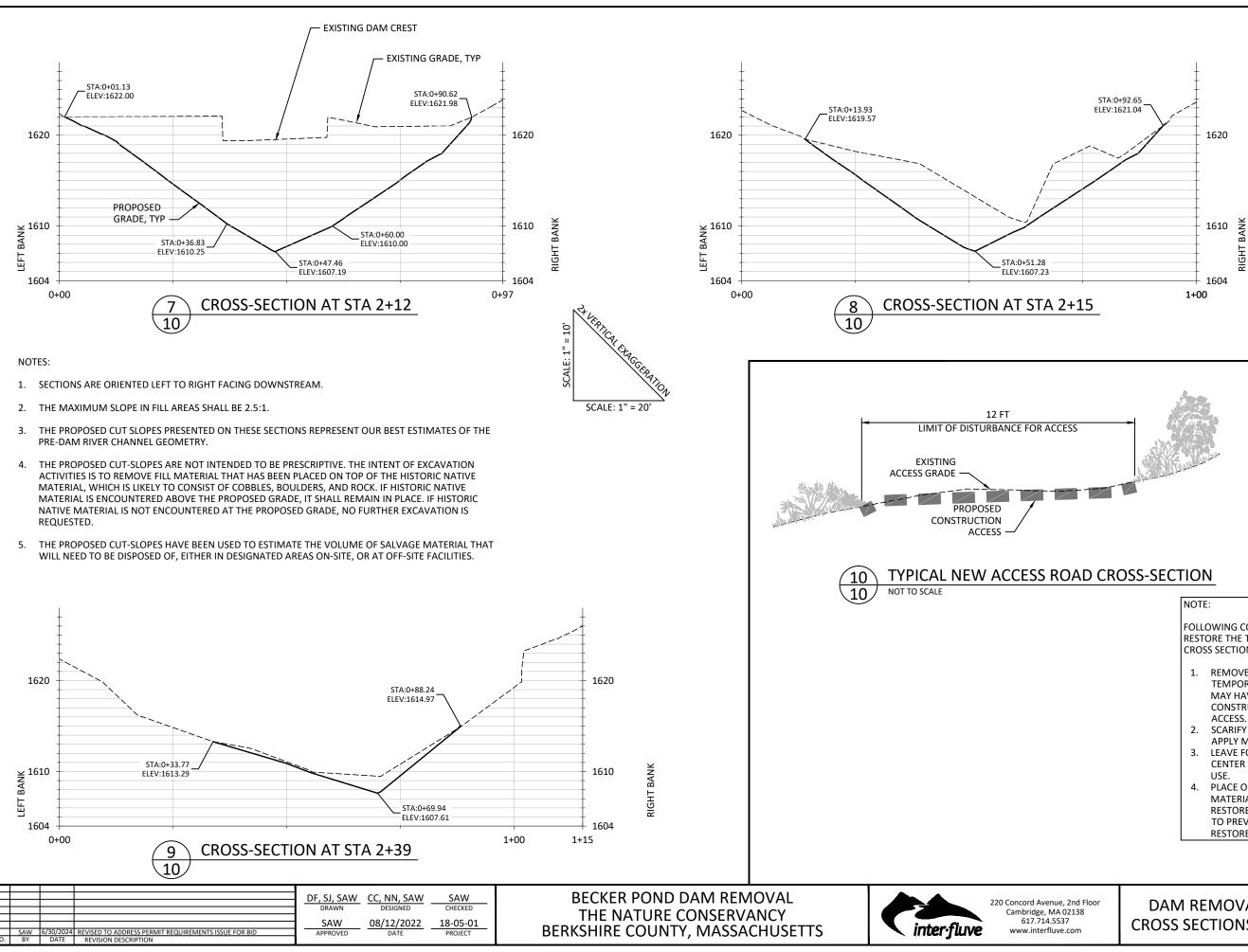




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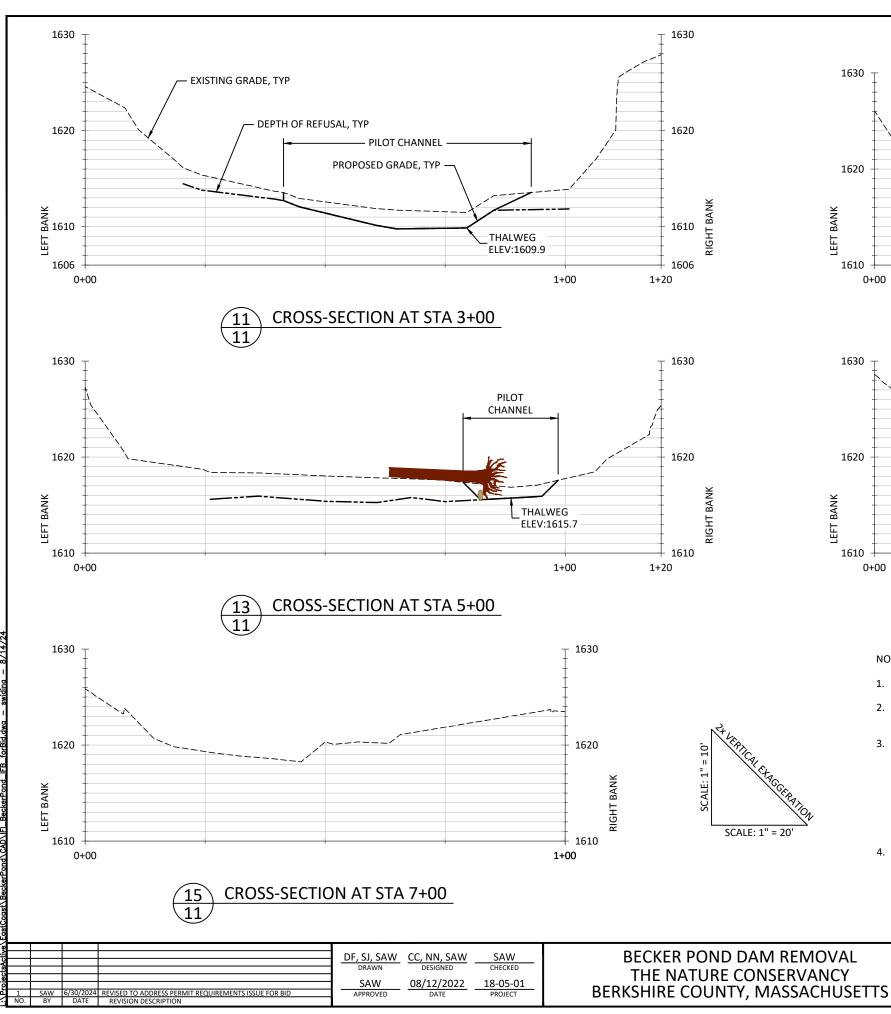


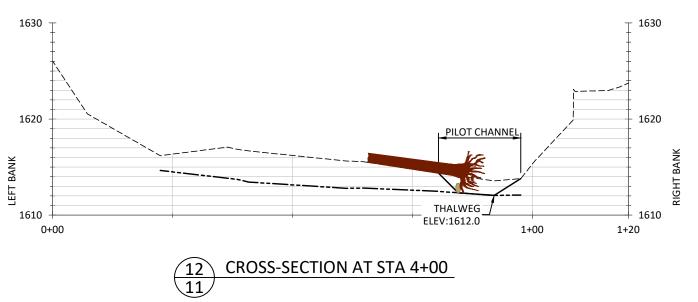


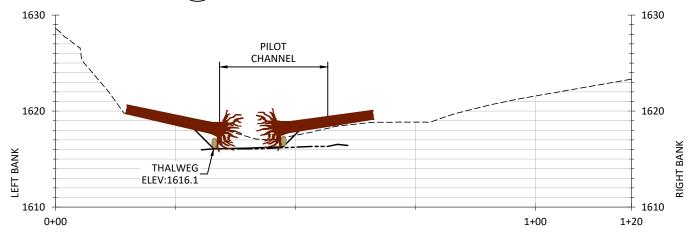


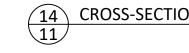
NOT	E:	
REST	OWING COMPLETION OF CONSTRUC ORE THE TYPICAL NEW ACCESS ROAD SS SECTION AS DESCRIBED HERE.	·
1.	REMOVE ANY SUPPLEMENTAL TEMPORARY BEARING MATERIAL TI MAY HAVE BEEN PLACED TO SUPPC CONSTRUCTION-PERIOD VEHICLE ACCESS.	
2.	SCARIFY THE SOIL, BROADCAST SEE	D,
3.		••••=
4.	PLACE OPPORTUNISTIC SALVAGE MATERIAL (E.G., WOOD, BOULDER) RESTORED CONSTRUCTION ENTRAM TO PREVENT VEHICLE INTRUSION T RESTORED PATH.	ICE
	Issue	d for Bid
		SHEET
DAIVI RI	EMOVAL GRADING	

CROSS SECTIONS AND DETAILS | 10 OF 14









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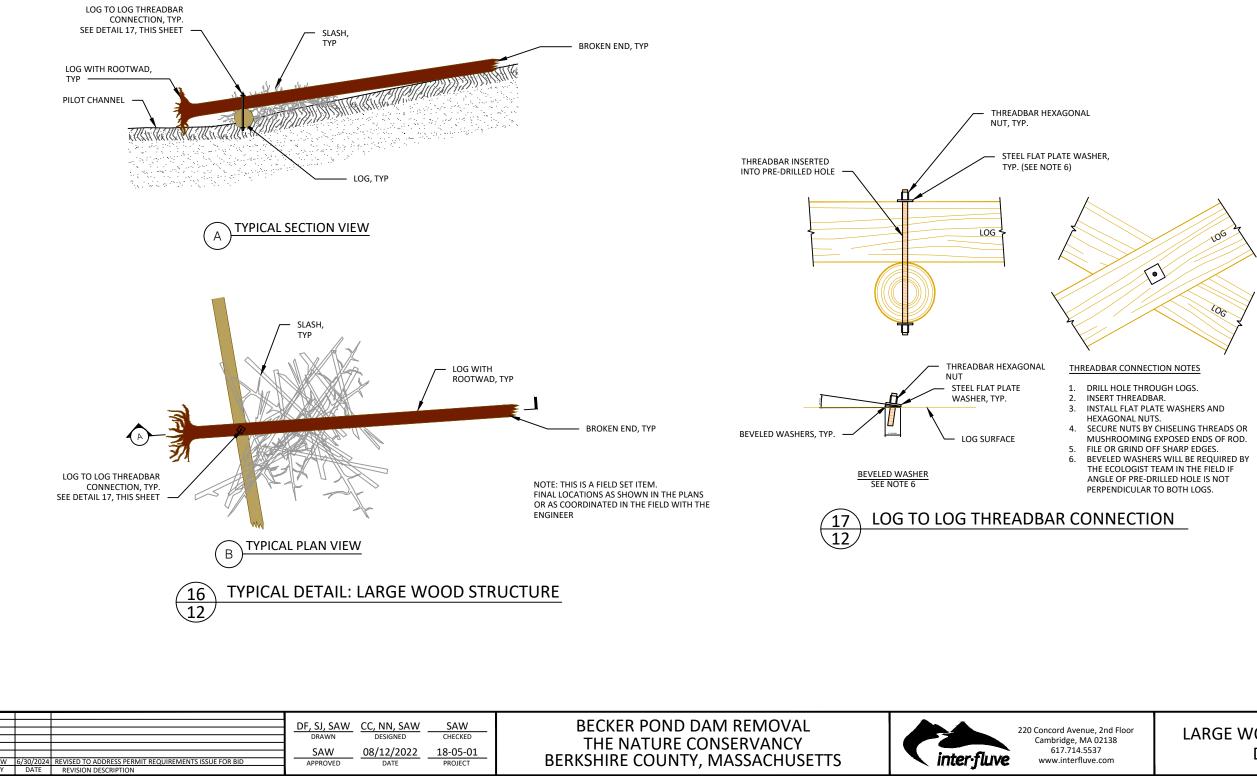
- 1. SECTIONS ARE ORIENTED LEFT TO RIGHT FACING DOWNSTREAM.
- 2. THE PROPOSED CUT SLOPES PRESENTED ON THESE SECTIONS REPRESENT OUR BEST ESTIMATES OF THE PRE-DAM RIVER CHANNEL GEOMETRY.
- THE PROPOSED CUT-SLOPES ARE NOT INTENDED TO BE PRESCRIPTIVE. THE 3. INTENT OF EXCAVATION ACTIVITIES IS TO REMOVE IMPOUNDED MATERIAL THAT HAS BEEN DEPOSITED ON TOP OF THE HISTORIC NATIVE MATERIAL, WHICH IS LIKELY TO CONSIST OF COBBLES, BOULDERS, AND ROCK. IF HISTORIC NATIVE MATERIAL IS ENCOUNTERED ABOVE THE PROPOSED GRADE, IT SHALL REMAIN IN PLACE. IF HISTORIC NATIVE MATERIAL IS NOT ENCOUNTERED AT THE PROPOSED GRADE, NO FURTHER EXCAVATION IS REQUESTED.
- 4. THE PROPOSED CUT-SLOPES HAVE BEEN USED TO ESTIMATE THE VOLUME OF SALVAGE MATERIAL THAT WILL NEED TO BE DISPOSED OF, EITHER IN DESIGNATED AREAS ON-SITE, OR AT OFF-SITE FACILITIES.



CROSS-SECTION AT STA 6+00

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	PILOT CHANNEL	SHEET	
Floor 8			
0	CONSTRUCTION CROSS	11 ^{OF} 14	
	SECTIONS		



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LARGE WOOD STRUCTURE
DETAILS

12 OF 14

SHEET

