

**Environmental Monitor Construction Site Inspection Report**  
**MassDOT Project #608164 Construction Contract # 119678**  
**EM Report #58**

Project Description: Bruce Freeman Rail Trail Right-of-Way  
 Permit Description(s): Order of Conditions (MGL Chapter 131, Section 40 and 310 CMR 10.00, Mass DEP File No. 301-1362); 2022 EPA NPDES General Permit for Discharges from Construction Areas; U.S. Army Corps of Engineers Permit No NAE-2021-01975.

**I. General Project Information**

Project Name:	Bruce Freeman Rail Trail - Phase 2d - Sudbury
Date of Inspections:	5/29/2025
Bi Weekly/ Monthly Period Covered:	May Weekly Inspection #5
Inspector's Name(s):	Anna Haznar
Inspectors' Contact Information:	<a href="mailto:ahaznar@beta-inc.com">ahaznar@beta-inc.com</a>

**II. Weather Information**

	Inspection #1	Inspection #2	Inspection #3	Inspection #4	Inspection #5	Inspection #6
	Inspector: Anna Haznar 5/5/2025	Inspector: Anna Haznar 5/12/2025	Inspector: Anna Haznar 5/16/2025	Inspector: Anna Haznar 5/23/2025	Inspector: Anna Haznar 5/29/2024	Inspector:
WeatherUnderground						
Type of Inspection (i.e. non-storm event, pre-storm event, during-storm event or post-storm event):	Post-storm	Non-storm	Post-storm	Post-storm	Non-storm	
Number of days since last rain event greater than .25"	0	1	1	1		
Has there been a storm event since the last inspection?	Yes	Yes	Yes	Yes	No	
If yes, please provide storm start date, storm duration, and approx amount of precipitation:						
Storm 1:	May 4th - 5th (11 hours 1.4")	May 9th (5 hours 0.08")	May 15th (6 hours 0.75")	May 22nd - May 23rd (16 hours 2.35")		
Storm 2:		May 11th (7 hours 0.10")				
Storm 3:						
Storm 4:						
Weather at the time of inspection (i.e. clear, overcast, cloudy, rain, sleet, fog, snow, windy):	Light Rain/ Overcast	Clear	Overcast	Overcast	Overcast	
Temperature:	51	68	70	42	65	
Unusual Conditions (drought, severe storm):						
Have any discharges occurred since the last inspection report?	No	No	No	Yes	No	
If yes, please describe:				Scour erosion was observed adjacent to the culverts at Station 216+00 and Station 217+00		

Note: Inspections should only be conducted on days during work hours while RE or ARE is onsite. The EM should contact the RE to address any immediate corrective actions.

**III. General Description of Construction Status**

5/5/2025 - At the time of the Site visit, no work was occurring.

5/12/2025 - At the time of the Site visit, no work was occurring.

5/16/2025 - At the time of the Site visit, no work was occurring.

5/23/2025 - At the time of the Site visit, no work was occurring.

5/29/2025 - At the time of the Site visit, no work was occurring.

**IV. Status of Existing BMPs**

Control Measure (These are examples; list measures specific to the project)	Cleaning or Repair Needed (yes no n/a)	Comments/Recommendations from the EM
Perimeter Controls	Yes	Perimeter erosion and sedimentation control measures were installed at the commencement of the Project and are in varying conditions across the Site; however, they were generally observed to be degraded. Perimeter controls were generally in degraded condition along culverts, streams, and cattle crossings. New perimeter controls were added on 6/27/2024 at Stations 310+00 through 311+00 as requested. New erosion controls have been installed between the path and the crushed stone shoulders at Station 216+00 to 217+50. Areas that still require stabilization do not appear to be at risk for erosion due to surrounding vegetation upgradient of Resource Areas, with the exception of the slopes along the stream at Station 215+00 to 217+00. Vegetation has begun stabilization the slope along the stream at Station 215+00 to 216+50; however, these areas are not considered fully stabilized. The slope will be monitored to determine if further stabilization is required.
Inlet Protection Measures	No	
Stabilized Construction Entrances	No	
Stockpile Protections	No	
Dust Control	No	
Street Sweeping	Yes	Crushed stone was observed on the path throughout the Project in varying volumes.
Dewatering Controls	No	
Construction Equipment and Material Storage	No	
Construction and Domestic Waste Storage and Collection	No	
Location of Sanitary Waste Facilities	No	
Washout Areas	No	
Fertilizers, Herbicides, and Landscape	N/A	
Stabilization of Exposed Soil	Yes	Varying degrees of stabilization are present within areas that were constructed/graded as part of the Project. Seed has been applied to multiple locations of exposed soil throughout the path; however, predominately non-native vegetation has become established. Erosion control blankets have been installed on the slope near Station 165+00 to 167+00 and Station 217+45. Loam that was applied to the streambank at Station 216+50 to 217+00 requires further stabilization. Vegetation has begun stabilization the slope along the stream at Station 215+00 to 216+50; however, these areas are not considered fully stabilized. The slope will be monitored to determine if further stabilization is required.
Overall Adherence to Environmental Permits	Yes	As noted in Action Items 41 and 42, it appears that work has been conducted beyond the limits of work approved under the Order of Conditions. These areas will require coordination amongst the Project Team to confirm if any restoration is required. A Site walk was conducted with BETA staff, MassDOT staff and the Conservation Agent on 11/19/2024 to discuss potential resolutions for compliance issues. In addition, invasive species requiring management still persist throughout the entirety of the corridor.

*Note: Use station numbers, wetland ID or other means to determine locations of BMP's that need repairs.*

V. Compliance Table - Compliance Action Items

V. 1. Compliance Action Items Observed During the One Month Reporting Period Ending [May 31, 2025].

Current Open and Closed Compliance Action Items Observed During the Reporting Period Ending [June 30, 2024]. For those items within the most current two week period, color the Item in blue, as shown on lines 48-50 as an example. RED text indicates that the item is outstanding. Once item is resolved, place resolution date in 'Recommended Resolution/Resolution Date' column, convert to BLACK text, and move to the bottom of the Action Item list. Place resolution date on TOP of resolution action. Each Compliance Action Item is assigned a unique number only to be used to reference that item for the duration of the project. Separate but related Action Items will be labeled in an "Item Number-1 and Item Number-2" manner or similar. Completed action items can be removed once they have appeared in the Bi-Weekly Report to MassDEP

"Urgent" - Needs to be completed immediately, "High" - Needs to be completed in < 7 days due to site conditions, proximity to resource areas, anticipated weather, etc., "Medium" - Needs to be completed within 7 days and has short-term potential to impact resource areas, "Low" - Needs to be completed within 7 days with minimal potential to impact resource areas

Item	Location/ Description	Observation Date	Resolution Due Date	Recommended Resolution / Resolution Date	Comments/Updates
62	Loam and seed was applied to the streambank at Station 215+00 to 217+00 and requires further stabilization <b>Priority: High</b>	11/25/2024	12/2/2024	An erosion control blanket should be installed along this slope.	<p>12/2/2024 - Loam and seed have been applied to the streambank at Station 215+00. Stabilization is required at Stations 215+00 to 217+00.</p> <p>12/6/2024 - Observation remains. See previous update.</p> <p>12/12/2024 - Observation remains. Rill erosion was observed within the loam applied to this area from Station 215+00 to 216+00.</p> <p>12/20/2024 - Observation remains. Loam has begun to erode, resulting in a discharge to the stream at Station 216+50.</p> <p>12/26/2024 - Observation remains. No further discharge was observed in this location.</p> <p>12/31/2024 - Observation remains. Additional loam has eroded resulting in a discharge to the stream at Station 216+50.</p> <p>1/2/2025 - Observation remains. No further discharge was observed in this location.</p> <p>1/9/2025 - Observation remains. Straw was observed to have been placed along portions of the streambank; however, this area should be stabilized using an erosion control blanket.</p> <p>1/15/2025 - Observation remains. Erosion causing a discharge of loam and straw into the stream was observed at Station 216+50.</p> <p>1/23/2025 - Observation remains. Snow coverage is present within the stream and on the streambank. No further discharge was observed during this inspection.</p> <p>1/30/2025 - Observation remains. Snow coverage is present within the stream and on the streambank. No further discharge was observed during this inspection.</p> <p>2/4/2025 - Observation remains. Snow coverage is still present over a majority of the stream and on the streambank. No further discharge was observed; however, stabilization is still required.</p> <p>2/11/2025 - Observation remains. Snow coverage is present over the stream and on the streambank.</p> <p>4/2/2025 - Observation remains. Loam was observed to have eroded and discharged into the stream at Station 215+75. Rill erosion was also observed on the streambank at Station 216+25.</p> <p>4/7/2025 - Observation remains. Stone has been installed around the culvert at Station 215+75 to stabilize the Bank. No further discharge in this location was observed; however stabilization still required.</p> <p>4/14/2025 - Observation remains. Some vegetative growth was observed along the Bank of the stream at Station 216+25; however, the area is not considered stabilized. Hydroseed should be applied to the exposed soil.</p> <p>4/21/2025 - Observation remains. No further vegetative growth was observed along the Bank of the stream. Hydroseed should be applied to the exposed soil.</p> <p>4/28/2025 - Observation remains.</p> <p>5/5/2025 - Observation remains. Vegetation has begun stabilization the slope along the stream at Station 215+00 to 216+50; however, these areas are not considered fully stabilized and will continue to be monitored to determine if further stabilization is required. The slope at Station 216+50 to 217+00 currently requires further stabilization as minimal vegetation has germinated on this slope.</p> <p>5/12/2025 - Observation remains. Vegetation has partially stabilized the slope at Station 215+00 to 217+00; however further application of seed is required.</p> <p>5/16/2025 - Observation remains. See previous update.</p> <p>5/23/2025 - Observation remains. Scour erosion as a result of heavy rainfall was observed directly adjacent to the culverts at Station 216+00 and 217+00. Further seed should be applied to the slopes adjacent to the stream to provide stabilization.</p> <p>5/29/2025 - Observation remains. The slopes from Station 215+50 to Station 216+50 have become partially stabilized due to vegetative growth and the slope at Station 217+00 has minimal vegetative cover. Seed should be applied to these slopes to achieve full stabilization. The seed mix used for stabilization should be submitted to the Conservation Commission.</p>

53	<p>Stone was observed requiring removal from the swale on the east side of the trail at Station 172+00 to 173+00  <b>Priority: High</b></p>	7/29/2024	8/6/2024	Remove stone from the swale.	<p>8/5/2024 - Observation remains.  8/7/2024 - Observation remains.  8/12/2024 - Observation remains. Material was observed to have migrated within the swale to Station 173+50.  8/16/2024 - Stone is still present within the swale.  8/20/2024 - Observation remains. Crushed stone has migrated further down the swale to Station 171+50.  8/27/2024 - Observation remains. Stone is still present within the swale.  9/3/2024 - Observation remains.  9/10/2024 - Observation remains. Stone is still present within the swale.  9/16/2024 - Observation remains. The contractor indicated that the stone within the swale would be hand removed.  9/23/2024 - Observation remains.  9/27/2024 - Observation remains. It appears as though some stone has migrated further south down the swale.  10/4/2024 - Observation remains. Stone is still present within the swale.  10/8/2024 - Observation remains.  10/15/2024 - Observation remains. Stone is covered with vegetation in some areas.  10/22/2024 - Observation remains. Stone is covered with vegetation in some areas.  10/29/2024 - Observation remains.  11/5/2024 - Observation remains.  11/12/2024 - Leaf litter has completely covered the stone in this location. The Contractor should indicate if stone has been removed from this location.  11/19/2024 - See previous update.  11/22/2024 - Observation remains. Stone is still present within the swale and requires removal. Leaf litter is currently covering a majority of the stone.  11/25/2024 - Observation remains. Leaf litter is covering a majority of the stone.  12/2/2024 - Observation remains. Stone is present within the swale under leaf litter.  12/6/2024 - Observation remains. See previous update.  12/12/2024 - Observation remains. Stone is present within the swale under the leaf litter.  12/20/2024 - Observation remains. Stone is present within the swale under the leaf litter.  12/26/2024 - Observation remains. Stone is present within the swale under the leaf litter and snow.  12/31/2024 - Observation remains. Stone is present within the swale under the leaf litter.  1/2/2025 - Observation remains. Stone is present within the swale under the leaf litter.  1/9/2025 - Observation remains. Stone is present within the swale under the leaf litter.  1/15/2025 - Observation remains. Further stone has discharged into the swale at this location, and stone is still present under leaf litter.  1/23/2025 - Observation remains. Stone is present within the swale under the leaf litter and snow.  1/30/2025 - Observation remains. Stone is present within the swale under the leaf litter and snow. Trash was also observed within the swale in this area.  2/4/2025 - Observation remains. Stone is present within the swale under the leaf litter and snow. Trash was also present within the swale in this area.  2/11/2025 - Observation remains. Stone is present within the swale under the leaf litter and snow. Trash is present within the swale in this area.  4/2/2025 - Observation remains. Stone is present within the swale under the leaf litter.  4/7/2025 - Observation remains. Stone is present within the swale under the leaf litter.  4/14/2025 - Observation remains. Stone is present within the swale under the leaf litter.  4/21/2025 - Observation remains. Stone is present within the swale under the leaf litter.  4/28/2025 - Observation remains. Stone is present within the swale under the leaf litter.  5/5/2025 - Observation remains. Stone is present within the swale under the leaf litter.  5/12/2025 - Observation remains. Stone is present within the swale under the leaf litter.  5/16/2025 - Observation remains. Stone is present within the swale under the leaf litter.  5/23/2025 - Observation remains. Stone is present within the swale under the leaf litter.  5/29/2025 - Observation remains. Stone is present within the swale under the leaf litter.</p>
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47	Slope stabilization required due to condition of compost filter tubes at Stations 265+50 and 273+00 <b>Priority: High</b>	6/7/2024	6/14/2024	Stabilize the slope with the approved seed mixture and provide interim stabilization such as straw mulch.	<p>6/14/2024 - Observation remains.  6/17/2024 - Observation remains.  6/24/2024 - Observation remains.  6/27/2024 - Observation remains.  7/8/2024 - Observation remains.  7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.  7/22/2024 - Observation remains.  7/29/2024 - Observation remains.  8/5/2024 - Observation remains.  8/7/2024 - Regrowth of vegetation has been observed in this area. This item will remain open until the area is fully stabilized.  8/12/2024 - Observation remains.  8/16/2024 - Observation remains.  8/20/2024 - Application of the approved seed mixture is required at this location.  8/27/2024 - Observation remains.  9/3/2024 - Observation remains.  9/10/2024 - Observation remains. Application of the approved seed mixture if required at this location.  9/16/2024 - Observation remains.  9/23/2024 - Observation remains.  9/27/2024 - Observation remains. The contractor indicated hydroseed will be applied here soon.  10/4/2024 - Observation remains. Hydroseed has not been applied to this area.  10/8/2024 - Observation remains. Hydroseed has not been applied to this area.  10/15/2024 - Observation remains. See previous update.  10/22/2024 - Observation remains. No germination has been observed.  10/29/2024 - Observation remains. No germination has been observed.  11/5/2024 - Observation remains. Some germination has been observed but the area is not considered stabilized.  11/12/2024 - Observation remains. See previous update.  11/19/2024 - Observation remains. See previous updates.  11/22/2024 - Observation remains. See update from 11/5/2024.  11/25/2024 - Observation remains.  12/2/2024 - Observation remains.  12/6/2024 - Observation remains.  12/12/2024 - Observation remains.  12/20/2024 - Observation remains.  12/26/2024 - Observation remains.  12/31/2024 - Observation remains.  1/2/2025 - Observation remains.  1/9/2025 - Observation remains.  1/15/2025 - Observation remains.  1/23/2025 - Observation remains.  1/30/2025 - Observation remains.  2/4/2025 - Observation remains.  2/11/2025 - Observation remains.  4/2/2025 - Observation remains. Vegetative stabilization has been achieved in some areas; however, the northwestern Bank of Pantry Brook has been hydroseeded but stabilization has not been achieved. The Bank will continue to be monitored to determine if more seed is required.  4/7/2025 - Observation remains. Exposed soil is present within this area both on the Bank of Pantry Brook and throughout the trail. Areas where hydroseed was applied will be monitored to determine if more seed is required.  4/14/2025 - Observation remains. See previous update.  4/21/2025 - Observation remains. Vegetative growth has been observed in some locations where hydroseed was applied; however, these areas are not considered stabilized. Further application of hydroseed is required and areas where hydroseed was applied will be monitored to determine if more seed is required.  4/28/2025 - Observation remains. See previous update.  5/5/2025 - Observation remains. See update from 4/7/2025 and 4/21/2025.  5/12/2025 - Observation remains. See update from 4/7/2025 and 4/21/2025.  5/16/2025 - Observation remains. Application of seed is required on multiple areas of exposed soil along this section of the trail. See update from 4/7/2025 and 4/21/2025.  5/23/2025 - Observation remains. Application of seed is required on multiple areas of exposed soil along this section of the trail. See update from 4/7/2025 and 4/21/2025.  5/29/2025 - Observation remains. Application of seed is required on multiple areas of exposed soil along this section of the trail. See update from 4/7/2025 and 4/21/2025.</p>
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43	<p>Overtopped compost filter tubes and exposed soils beyond the limits of work at Station 105+00  <b>Priority: High</b></p>	6/7/2024	6/14/2024	<p>Stabilize the area with the approved seed mixture and provide interim stabilization such as straw mulch.</p>	<p>6/14/2024 - Observation remains.  6/17/2024 - Observation remains.  6/24/2024 - Observation remains.  6/27/2024 - Observation remains.  7/8/2024 - Observation remains.  7/15/2024 - Observation remains.  7/22/2024 - Observation remains.  7/29/2024 - Observation remains.  8/5/2024 - Observation remains.  8/7/2024 - Observation remains.  8/12/2024 - Observation remains. Some material has migrated off of the compost filter tubes due to erosion.  8/16/2024 - Observation remains.  8/20/2024 - Application of the approved seed mixture is required at this location.  8/27/2024 - Observation remains.  9/3/2024 - Observation remains.  9/10/2024 - Observation remains. Application of the approved seed mixture is required at this location.  9/16/2024 - Observation remains.  9/23/2024 - Observation remains.  9/27/2024 - Observation remains.  10/4/2024 - Hydroseed has been applied here; however, the contractor should provide an update on long-term slope stabilization plans.  10/8/2024 - Observation remains. Germination has not been observed.  10/15/2024 - Observation remains. Germination has not been observed.  10/22/2024 - Observation remains. Some germination has been observed but the area is not considered stabilized.  10/29/2024 - Observation remains. No further germination has been observed since the last inspection.  11/5/2024 - Observation remains. Some germination has been observed but the area is not considered stabilized.  11/12/2024 - Observation remains. Seed has stabilized the area.  11/19/2024 - The area adjacent to the path has become stabilized; however, exposed soil is still present next to the culvert past the limit of work.  11/22/2024 - Observation remains. See previous update.  11/25/2024 - Observation remains. See update from 11/19/2024.  12/2/2024 - Observation remains. See update from 11/19/2024.  12/6/2024 - Observation remains. See update for 11/19/2024.  12/12/2024 - Observation remains. See update from 11/19/2024.  12/20/2024 - Observation remains. See update from 11/19/2024.  12/26/2024 - Observation remains. See update from 11/19/2024.  12/31/2024 - Observation remains. See update from 11/19/2024.  1/2/2025 - Observation remains. See update from 11/19/2024.  1/9/2025 - Observation remains. See update from 11/19/2024.  1/15/2025 - Observation remains. Exposed soils are still present next to the culvert past the limits of work.  1/23/2025 - Observation remains. See previous update.  1/30/2025 - Observation remains. Exposed soils are present next to the culvert past the limits of work.  2/4/2025 - Observation remains. Exposed soils are present next to the culvert past the limits of work.  2/11/2025 - Observation remains. Exposed soils past the limits of work are currently frozen and covered with snow.  4/2/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.  4/7/2025 - Observation remains. See previous update.  4/14/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.  4/21/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.  4/28/2025 - Observation remains. See previous update.  5/5/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.  5/12/2025 - Observation remains. See previous update.  5/16/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.  5/23/2025 - Observation remains. See previous update.  5/29/2025 - Observation remains. Exposed soil past the limits of work is present and requires further stabilization.</p>
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32	<p>Soil and organic debris has been placed within the wetland between wetland flagging WF#23-119 and WF#23-118 at Station 224+00  <b>Priority: High</b></p>	5/21/2024	<p>5/28/2024  <b>Resolved: 5/5/2025</b></p>	<p>Remove all material and provide stabilization of the area with the approved wetland seed mixture. Straw should also be placed for interim stabilization.</p>	<p>5/28/2024 - Observation remains.  5/31/2024 - Observation remains.  6/7/2024 - Observation remains.  6/14/2024 - Observation remains.  6/17/2024 - This area has been hydroseeded multiple times, but the debris should also be removed from the downgradient wetland.  6/24/2024 - Observation remains.  6/27/2024 - Observation remains. The area was hydroseeded again.  7/8/2024 - Germination was observed and the area will be monitored for stabilization.  7/15/2024 - See previous update.  7/22/2024 - Observation remains.  7/29/2024 - Observation remains.  8/5/2024 - Observation remains.  8/7/2024 - Regrowth of vegetation has been observed in this area. This item will remain open until the area is fully stabilized. Debris is still present in wetland and requires removal.  8/12/2024 - Observation remains.  8/16/2024 - Observation remains.  8/20/2024 - Debris is still present within the wetland.  8/27/2024 - Observation remains.  9/3/2024 - Debris is still present in the wetland and slopes upgradient of the wetland require stabilization.  9/10/2024 - Observation remains.  9/16/2024 - Debris has been removed from the wetland; however, soils require stabilization.  9/23/2024 - Observation remains. Soils require stabilization at this location.  9/27/2024 - Observation remains. The contractor indicated hydroseed will be applied to this area soon.  10/4/2024 - Observation remains. Hydroseed has not been applied to this area.  10/8/2024 - Observation remains. Hydroseed has not been applied to this area.  10/15/2024 - Observation remains. Hydroseed has not been applied to this area.  10/22/2024 - Observation remains. Hydroseed has not been applied to this area.  10/29/2024 - Observation remains. Hydroseed has not been applied to this area.  10/29/2024 - Observation remains. Hydroseed has not been applied to this area.  11/5/2024 - Observation remains. Hydroseed has not been applied to this area.  11/12/2024 - Observation remains.  11/19/2024 - Hydroseed has been applied to this location. Once the area has become stabilized this action item will be closed.  11/22/2024 - Observation remains. No germination has been observed in this area.  11/25/2024 - Observation remains. No germination has been observed in this area.  12/2/2024 - Observation remains. No germination has been observed in this area.  12/6/2024 - Observation remains. No germination has been observed in this area.  12/12/2024 - Observation remains. Some germination has been observed within this location. Observation will remain open until stabilization is complete.  12/20/2024 - Observation remains. See previous update.  12/26/2024 - Observation remains. See update from 12/12/2024.  12/31/2024 - Observation remains. See update from 12/12/2024.  1/2/2025 - Observation remains. See update from 12/12/2024.  1/9/2025 - Observation remains. See update from 12/12/2024.  1/15/2025 - Observation remains.  1/23/2025 - Observation remains.  1/30/2025 - Observation remains.  2/4/2025 - Observation remains.  2/11/2025 - Observation remains.  4/2/2025 - Observation remains. Hydroseed was applied to this location in November of 2024; however, exposed soil is still present. This area will be monitored to determine if additional seed will be required to stabilize the area.  4/7/2025 - Observation remains. No further vegetation was observed in this location, see previous update.  4/14/2025 - Observation remains. No further vegetation was observed in this location, see comment from 4/2/2025.  4/21/2025 - Observation remains. Some vegetative growth was observed in this location. This area will be monitored to determine if additional seed will be required to stabilize the area.  4/28/2025 - Observation remains. See previous update.  5/5/2025 - Exposed soil at Station 224+00 has become stabilized; however, exposed soil is present adjacent to this area and invasive species are beginning to germinate in the exposed soil. Further comments regarding exposed soil and invasive species will be discussed in Compliance Action Item 59 and 61.</p>
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V.2. On Going (Longer-Term) Compliance Items

Typically, these items require coordination with MassDEP. If so, remove once approval is obtained from MassDEP

Item	Location/ Description	Observation Date	Resolution Due Date	Recommended/Discussed Resolution	Comments/Updates
61	<p>Invasive/ non-native vegetation including Japanese knotweed (<i>Reynoutria japonica</i>), bittersweet (<i>Celastrus orbiculatus</i>), bush honeysuckle (<i>Lonicera spp.</i>), burning bush (<i>Euonymus alatus</i>), purple loosestrife (<i>Lythrum salicaria</i>), glossy buckthorn (<i>Frangula alnus</i>) multiflora rose (<i>Rose multiflora</i>), lesser celandine (<i>Ficaria verna</i>) and garlic mustard (<i>Alliaria petiolata</i>) have been observed throughout the path. Priority: High</p>	10/22/2024	10/29/2024	Invasive Species should be removed by manual and/or chemical removal methods	<p>10/29/2024 - Invasive species are present throughout the trail both within upland and Resource Areas. Populations of glossy buckthorn and purple loosestrife are present within the wetland replication area.  11/5/2024 - Observation remains. See update from 10/29/2024.  11/12/2024 - Observation remains. Invasive species are still present throughout the trail. Some invasives have been observed with no leaves due to winter die back.  11/19/2024 - Observation remains. Further invasive species management will be required during the next growing season.  11/22/2024 - Observation remains.  11/25/2024 - Observation remains.  12/2/2024 - Observation remains.  12/6/2024 - Observation remains. This action item has been moved to the Long-Term Compliance Items section because it can only be resolved during the next growing season.  12/12/2024 - Observation remains.  12/20/2024 - Observation remains.  12/26/2024 - Observation remains.  12/31/2024 - Observation remains.  1/2/2025 - Observation remains.  1/9/2025 - Observation remains.  1/15/2025 - Observation remains.  1/23/2025 - Observation remains.  1/30/2025 - Observation remains.  2/4/2025 - Observation remains.  2/11/2025 - Observation remains.  4/2/2025 - Observation remains. Invasive species including, bush honeysuckle, multiflora rose, garlic mustard and buckthorn were observed to be developing buds and leaves throughout the site. In addition, non-invasives but non-native species have been observed along the corridor within areas where the establishment of native species is required.  4/7/2025 - Observation remains. See previous update.  4/14/2025 - Observation remains. Invasive/non-native species are present throughout the trail.  4/21/2025 - Observation remains. Lesser celandine (<i>Ficaria verna</i>) was observed along the trail at Station 312+00. Garlic mustard is present throughout the trail in locations on exposed soil. Invasive species including bittersweet, bush honeysuckle, burning bush, multiflora rose and glossy buckthorn are also present throughout the trail.  4/28/2025 - Observation remains. See previous update.  5/5/2025 - Observation remains. Multiple Japanese knotweed sprouts have been observed throughout the trail, garlic mustard was observed as flowering, one black locust (<i>Robinia pseudoacacia</i>) sapling was observed along the trail, and other previously listed invasive species have fully leafed out. Management for invasive species should occur prior to the setting of seed to ensure further spread does not occur.  5/12/2025 - Observation remains. Invasive species have been observed throughout the path. Japanese knotweed sprouts have germinated in multiple locations, garlic mustard has begun going to seed, bush honeysuckle was observed as being in flower and other invasive species have fully leafed out. Management for invasive species should occur prior to the setting of seed to ensure further spread does not occur.  5/16/2025 - Observation remains. Invasive species have been observed throughout the path. See previous update.  5/23/2025 - Observation remains. Invasive species are present throughout the path. Garlic mustard was observed as going to seed, Japanese knotweed and buckthorn are present in multiple areas throughout the trail, bush honeysuckle and bittersweet were observed to be in flower, and burning bush was observed. Invasive species should be removed prior to the setting of seed to ensure further spread does not occur.  5/29/2025 - Observation remains. See previous update.</p>

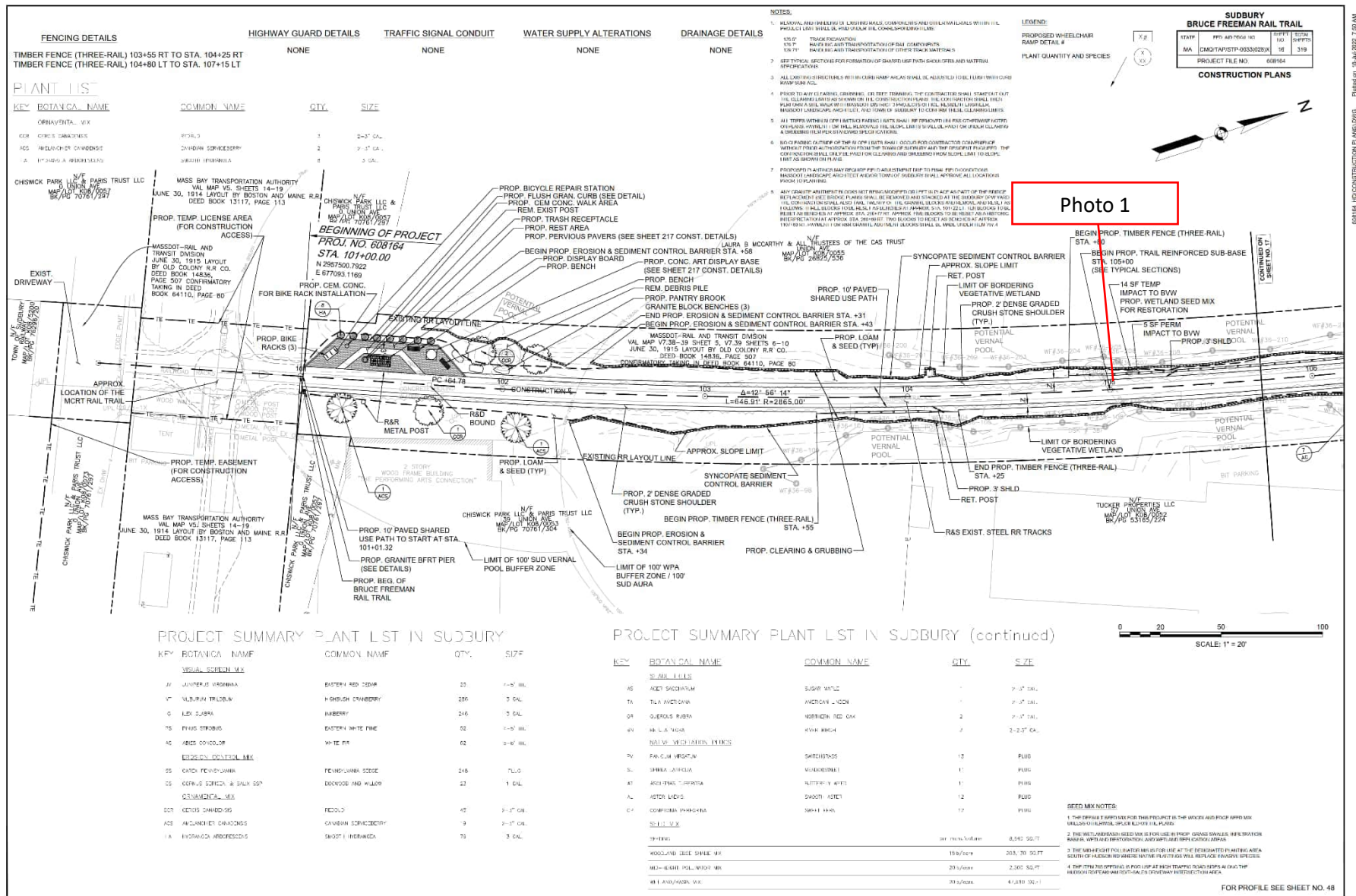


57-1	Japanese hops ( <i>Humulus japonicus</i> ) has been observed throughout the Project and requires removal <b>Priority: High</b>	10/22/2024	10/29/2024	The Contractor should manage remaining Japanese hops by hand pulling and the application of herbicide.	<p>10/22/2024 - This Action Item has been reopened due to observations of both dead and living Japanese hops in select locations along the Project. BETA and MassDOT will coordinate further with the Sudbury Conservation Agent to clarify the extents of remaining living vegetation as removal efforts progress.</p> <p>10/29/2024 - Plants that were observed as alive along Route 117 during the last inspection were observed to be wilting due to winter die back.</p> <p>4/14/2025 - Japanese hops were observed within Parkinsons Field and require removal.</p> <p>4/21/2025 - Japanese hops were observed within Parkinsons Field and require removal. Japanese hops have not been observed in other locations throughout the trail.</p> <p>4/28/2025 - Observation remains. See previous update.</p> <p>5/5/2025 - Observation remains. Japanese hops have been observed in multiple locations throughout the trail. Management should occur prior to the setting of seed to ensure further spread does not occur.</p> <p>5/12/2025 - Observation remains. See previous update.</p> <p>5/16/2025 - Observation remains. Japanese hops have been observed throughout the trail in both vegetated areas and areas of exposed soils. Management should occur prior to the setting of seed to ensure further spread does not occur.</p> <p>5/23/2025 - Observation remains. See previous update.</p> <p>5/29/2025 - Observation remains. For readability observations from 11/5/2024 to 4/7/2025 have been removed. Japanese hops have been observed throughout the trail in both vegetated areas and areas of exposed soils. Management should occur prior to the setting of seed to ensure further spread does not occur.</p>
59	Multiple locations of exposed soils along the Project corridor require stabilization <b>Priority: High</b>	9/3/2024	9/10/2024	The contractor should apply the approved seed mixture to areas of exposed soils and place straw.	<p>4/21/2025 - For readability all previous observations have been removed from the report. Please reference the report from 4/14/2025 to see past observations. Observation remains. Vegetation has begun sprouting in some areas that were hydroseeded; however, most areas are not considered fully stabilized. Multiple areas of exposed soil along the trail still require the application of hydroseed. The seed mix used for stabilization should be submitted to the Conservation Commission.</p> <p>4/28/2025 - Observation remains. See previous update.</p> <p>5/5/2025 - Observation remains. Areas where hydroseed was applied have been observed as being partially or fully stabilized. Areas of exposed soil are still present in multiple locations throughout the trail. Further application of hydroseed should occur. The seed mix used for stabilization should be submitted to the Conservation Commission.</p> <p>5/12/2025 - Observation remains. See previous update.</p> <p>5/16/2025 - Observation remains. Areas of exposed soil are present in multiple locations throughout the trail. Further application of hydroseed should occur. The seed mix used for stabilization should be submitted to the Conservation Commission.</p> <p>5/23/2025 - Observation remains. See previous update.</p> <p>5/29/2025 - Observation remains. See update for 5/16/2025.</p>
58	Crushed stone used for the dense graded crush stone shoulders has been observed as migrating both onto the path, off the sides of the path, and into the adjacent Resource Areas throughout the Project <b>Priority: High</b>	8/7/2024	8/14/2024	Remove all crushed stone from Resource Areas and develop a plan to cease discharges of stone.	<p>4/21/2025 - For readability all previous observations have been removed from the report. Please reference the report from 4/14/2025 to see past observations. Observation remains. Crushed stone was observed both on and off the trail in multiple locations.</p> <p>4/28/2025 - Observation remains. See previous update.</p> <p>5/5/2025 - Observation remains. See update from 4/21/2025.</p> <p>5/12/2025 - Observation remains. See update from 4/21/2025.</p> <p>5/16/2025 - Observation remains. Crushed stone is present both on and on the side of the trail in multiple locations.</p> <p>5/23/2025 - Observation remains. See previous update.</p> <p>5/29/2025 - Observation remains. Crushed stone is present both on and on the side of the trail in multiple locations.</p>

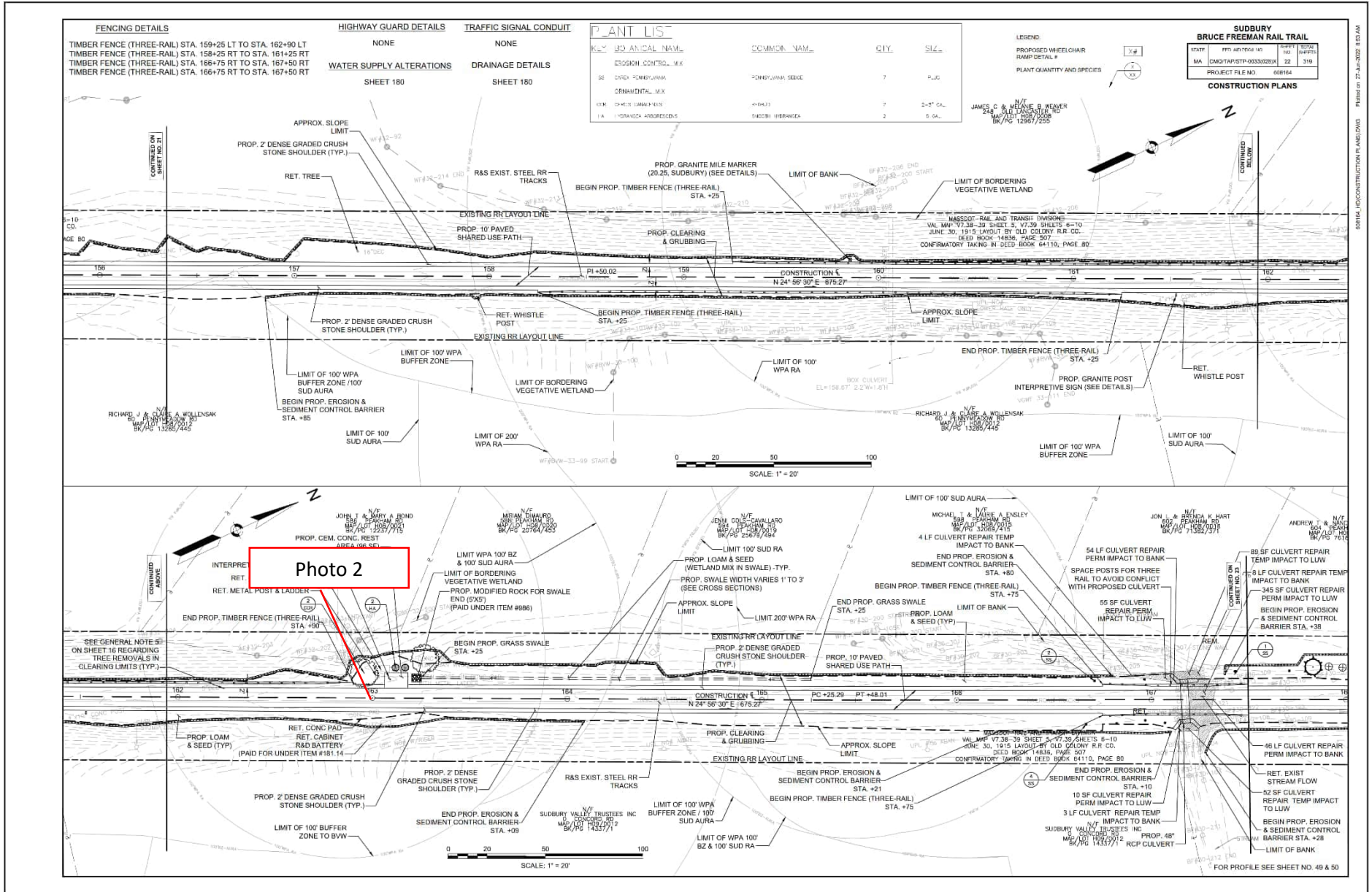
42	<p>Riprap slope extends beyond limits of work along the WF1 Series wetland near flags 103 to 107</p> <p>Priority: High</p>	5/28/2024	6/4/2024	<p>The Contractor should confirm if this work was permitted by the Conservation Commission, as it does not appear to be a part of the approved plans/impacts. MassDOT should be consulted on next steps regarding notification and potential restoration.</p>	<p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Observation remains.</p> <p>6/14/2024 - Riprap slope has been altered and active construction is repairing the area.</p> <p>6/17/2024 - During this inspection, additional work in support of the repair/potential replacement of an underlying pipe has been ongoing. It is recommended that the contractor confirm that they have coordinated with the Conservation Commission for this work and provide a restoration plan for the area once work is complete.</p> <p>6/24/2024 - During this inspection, BETA was informed that the existing cast iron pipe was replaced with a new concrete 12-inch reinforced concrete pipe. It appears that riprap was replaced along the side slopes to mirror conditions observed prior to this inspection.</p> <p>6/27/2024 - During this inspection, the area was observed to have been rolled and prepared for paving. Hydroseed was applied and plantings were installed.</p> <p>7/8/2024 - Germination was observed and the area will be monitored for stabilization. See previous updates regarding Conservation Commission coordination.</p> <p>7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.</p> <p>7/22/2024 - See previous updates regarding Conservation Commission coordination.</p> <p>7/29/2024 - Observation remains.</p> <p>8/5/2024 - Observation remains.</p> <p>8/7/2024 - Observation remains.</p> <p>8/12/2024 - Observation remains. Regrowth of vegetation has been observed in this area and will continue to be monitored.</p> <p>8/16/2024 - Observation remains.</p> <p>8/20/2024 - Observation remains.</p> <p>8/27/2024 - Observation remains.</p> <p>9/3/2024 - Observation remains.</p> <p>9/10/2024 - Observation remains.</p> <p>9/16/2024 - Observation remains.</p> <p>9/23/2024 - Observation remains.</p> <p>9/27/2024 - Observation remains.</p> <p>10/4/2024 - Observation remains.</p> <p>10/8/2024 - Observation remains.</p> <p>10/15/2024 - Observation remains.</p> <p>10/22/2024 - Observation remains.</p> <p>10/29/2024 - Observation remains.</p> <p>11/5/2024 - Observation remains.</p> <p>11/12/2024 - Observation remains. The timber fence has been installed upgradient of this area.</p> <p>11/19/2024 - Observation remains. As discussed with the Conservation Agent in the field, an as-built should be prepared for this area to quantify any additional impacts that may be addressed through a permit amendment.</p> <p>11/22/2024 - Observation remains. See previous update.</p> <p>11/25/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/2/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/6/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/12/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/20/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/26/2024 - Observation remains. See update from 11/19/2024.</p> <p>12/31/2024 - Observation remains. See update from 11/19/2024.</p> <p>1/2/2025 - Observation remains. Leaf litter that was previously observed at the bottom of the slope has blown away and it appears that exposed soil with no observable germination is present.</p> <p>1/9/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>1/15/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>1/23/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>1/30/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>2/4/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>2/11/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>4/2/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>4/7/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>4/14/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>4/21/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>4/28/2025 - Observation remains. See previous update.</p> <p>5/5/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>5/12/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>5/16/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>5/23/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p> <p>5/29/2025 - Observation remains. See update from 1/2/2025 and 11/19/2024.</p>
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41	Stream Bank has been regraded beyond the limit of work at Station 216+00 <b>Priority: High</b>	5/28/2024	6/4/2024	The Contractor should confirm if this work was permitted by the Conservation Commission, as it does not appear to be a part of the approved plans/impacts. MassDOT should be consulted on next steps regarding notification and potential restoration.	<p>5/31/2024 - Observation remains.  6/7/2024 - Observation remains.  6/14/2024 - Observation remains.  6/17/2024 - Observation remains.  6/24/2024 - Observation remains.  6/27/2024 - Observation remains.  7/8/2024 - Observation remains.  7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.  7/22/2024 - Crushed stone and sediment continue to be discharged to the stream between Stations 215+00 and 217+00 due to overtopped and undermined compost filter tubes.  7/29/2024 - Observation remains.  8/5/2024 - Observation remains.  8/7/2024 - Observation remains.  8/12/2024 - Observation remains. Crushed stone is still present in the streambed at this location.  8/16/2024 - Observation remains.  8/20/2024 - Stone has been removed; however, additional alteration to Resource Areas beyond the limit of work continue.  8/27/2024 - Observation remains.  9/3/2024 - Observation remains.  9/10/2024 - Observation remains. Stone has been observed as discharging into the streambed in this location again.  9/16/2024 - Observation remains.  9/23/2024 - Observation remains. Stone is still present within the streambed at this location.  9/27/2024 - Observation remains.  10/4/2024 - Observation remains.  10/8/2024 - Observation remains.  10/15/2024 - Observation remains. Stone is still present within the streambed at this location.  10/22/2024 - Observation remains. Stone is still present within the streambed at this location.  10/29/2024 - Observation remains. Stone is still present within the streambed at this location.  11/5/2024 - Observation remains. The PVC pipe that was installed at this location was observed to be covered with stone and is no longer visible near Station 215+00. Stone is still present within the streambed at this location.  11/12/2024 - Observation remains. The streambed in this location is covered with leaf litter. See previous update.  11/19/2024 - Observation remains. As discussed with the Conservation Agent in the field, further coordination between the Town and MassDOT will be required to clean/repair the culvert, as the degraded condition of the culvert prompted the contractor to armor the stream banks. Further coordination will also be required for restoration of banks.  11/22/2024 - Observation remains. See previous update.  11/25/2024 - Observation remains. See update from 11/19/2024.  12/2/2024 - Observation remains. See update from 11/19/2024.  12/6/2024 - Observation remains. See update from 11/19/2024.  12/12/2024 - Observation remains. See update from 11/19/2024.  12/20/2024 - Observation remains. See update from 11/19/2024.  12/26/2024 - Observation remains. See update from 11/19/2024.  12/31/2024 - Observation remains. See update from 11/19/2024.  1/2/2025 - Observation remains. See update from 11/19/2024.  1/9/2025 - Observation remains. See update from 11/19/2024.  1/15/2025 - Observation remains. See update from 11/19/2024.  1/23/2025 - Observation remains. See update from 11/19/2024.  1/30/2024 - Observation remains. See update from 11/19/2024.  2/4/2025 - Observation remains. See update from 11/19/2024.  2/11/2025 - Observation remains. See update from 11/19/2024.  4/2/2025 - Observation remains. See update from 11/19/2024.  4/7/2025 - Observation remains. Stone was placed along the culvert to stabilize the Bank at Station 215+75. See update from 11/19/2024.  4/14/2025 - Observation remains, see update from 11/19/2024.  4/21/2025 - Observation remains, see update from 11/19/2024.  4/28/2025 - Observation remains. See previous update.  5/5/2025 - Observation remains. See update from 11/19/2024.  5/12/2025 - Observation remains. See update from 11/19/2024.  5/16/2025 - Observation remains. See update from 11/19/2024.  5/23/2025 - Observation remains. See update from 11/19/2024.  5/29/2025 - Observation remains. See update from 11/19/2024.</p>
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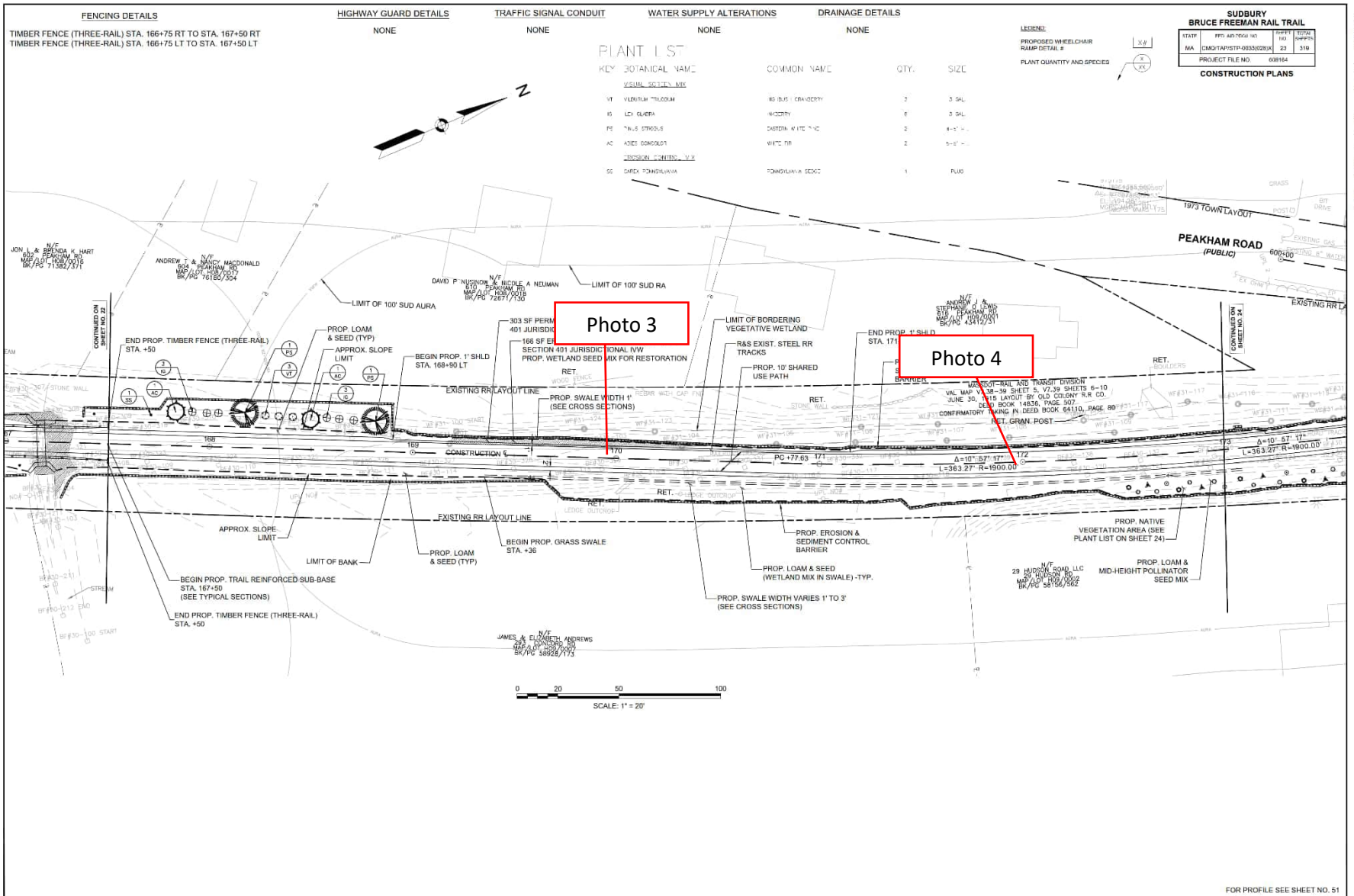
VI. Agency Submittals (Note: only filled out for monthly report)			
Submittal	Date Submitted	Description	Status
VII. Attachments (#3 only attached with monthly report)			
1. Field Sketch			
2. Photographic Documentation			
3. 3 Week Look ahead schedule			



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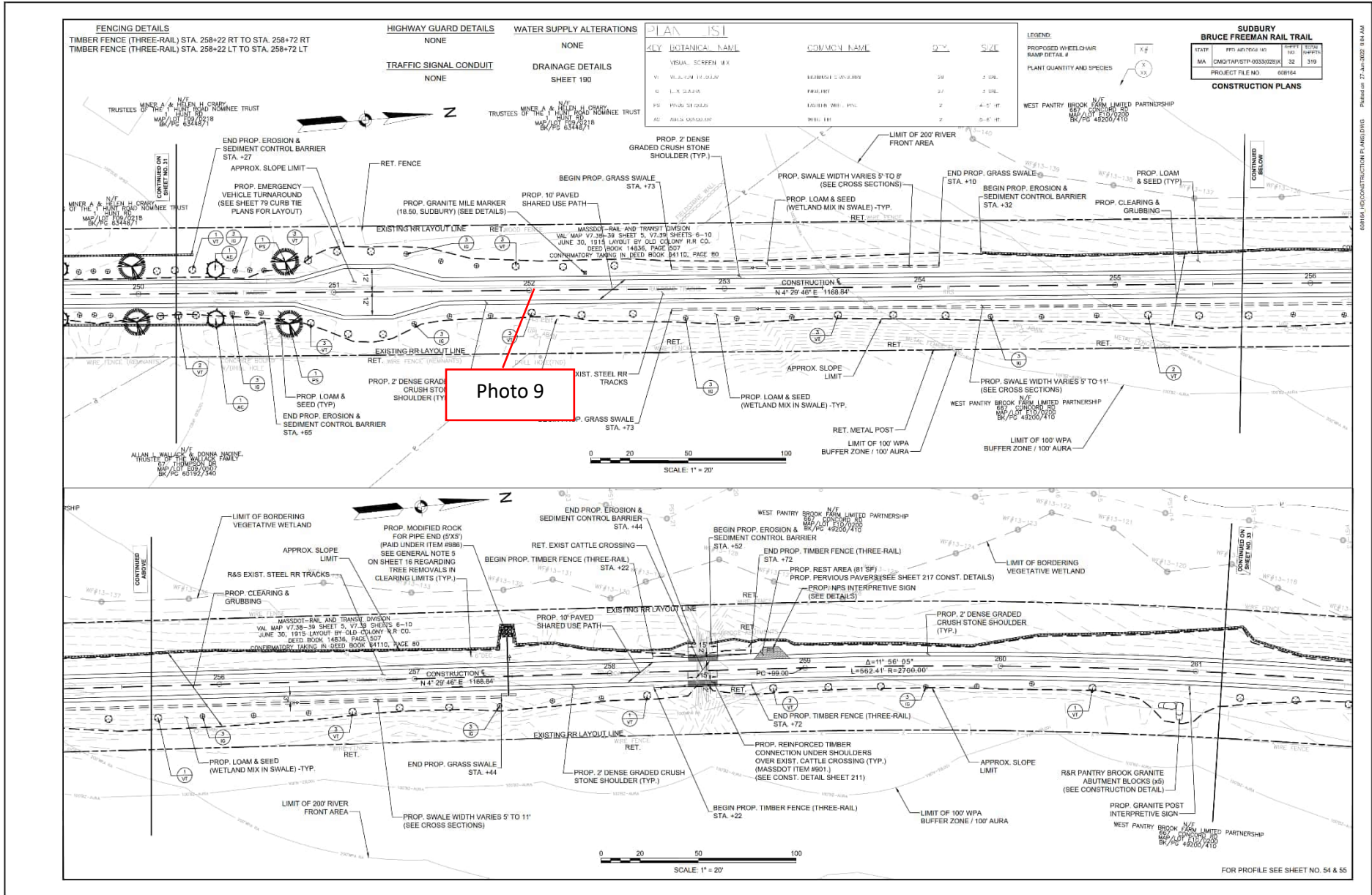


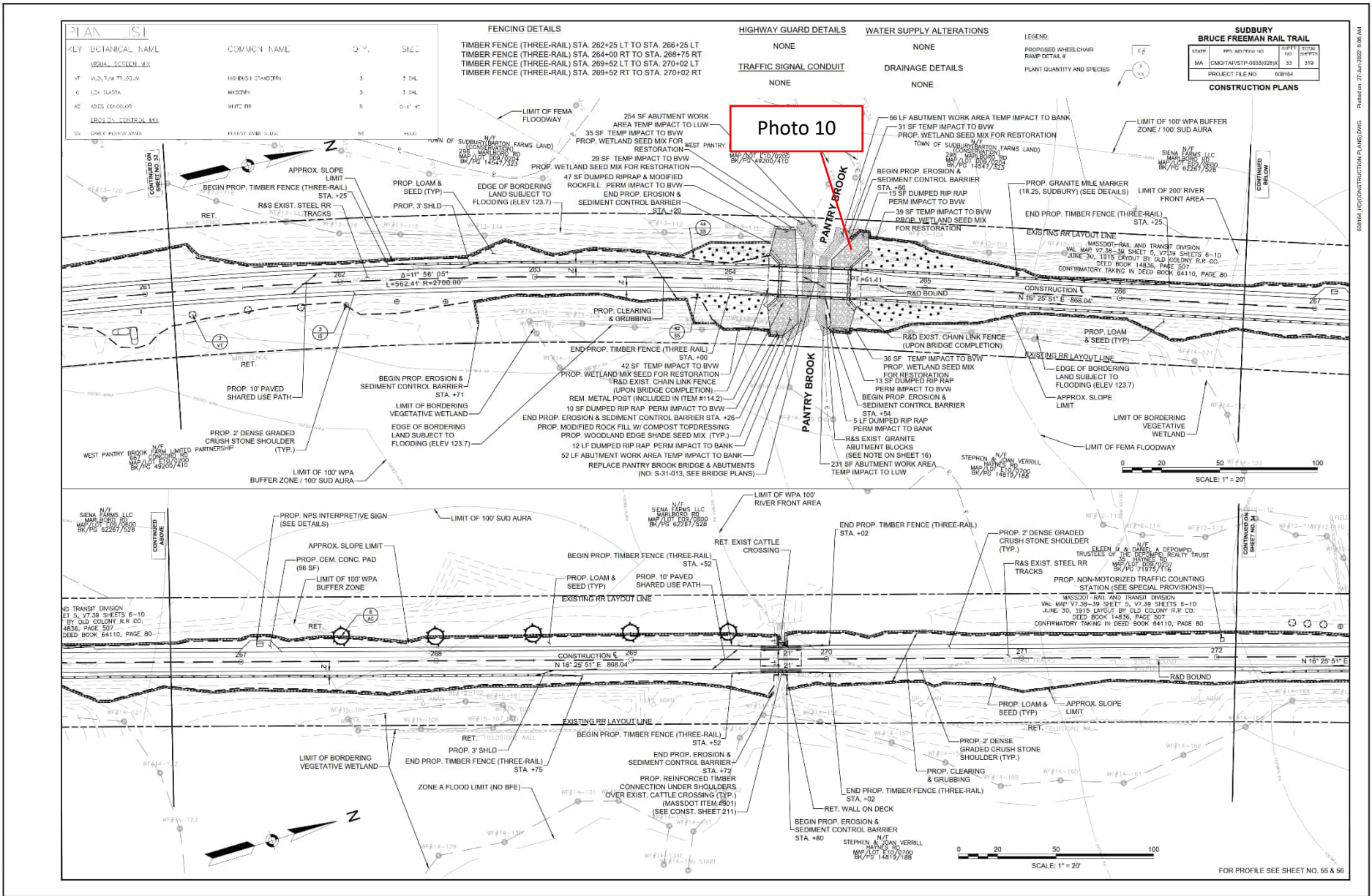
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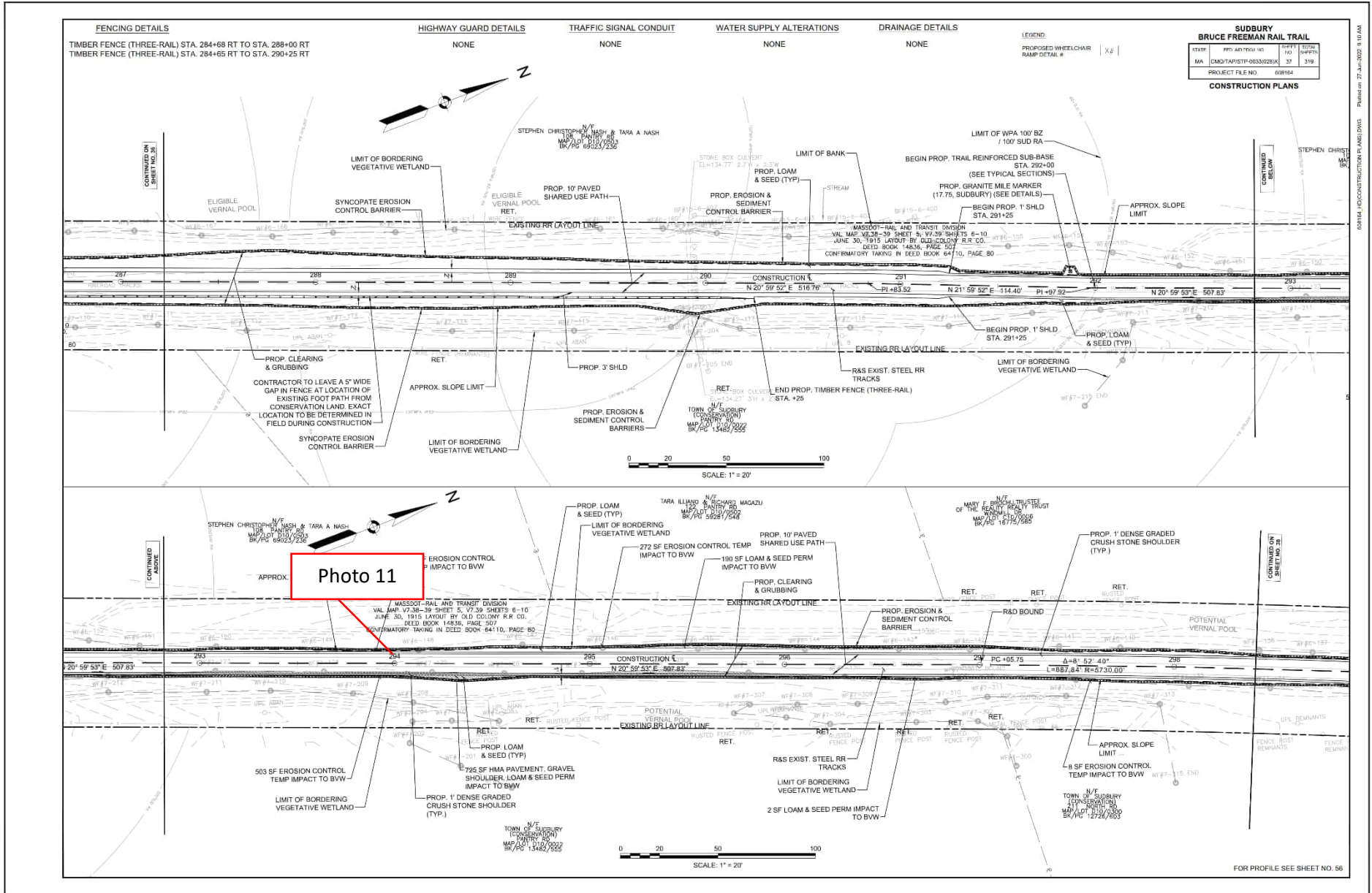






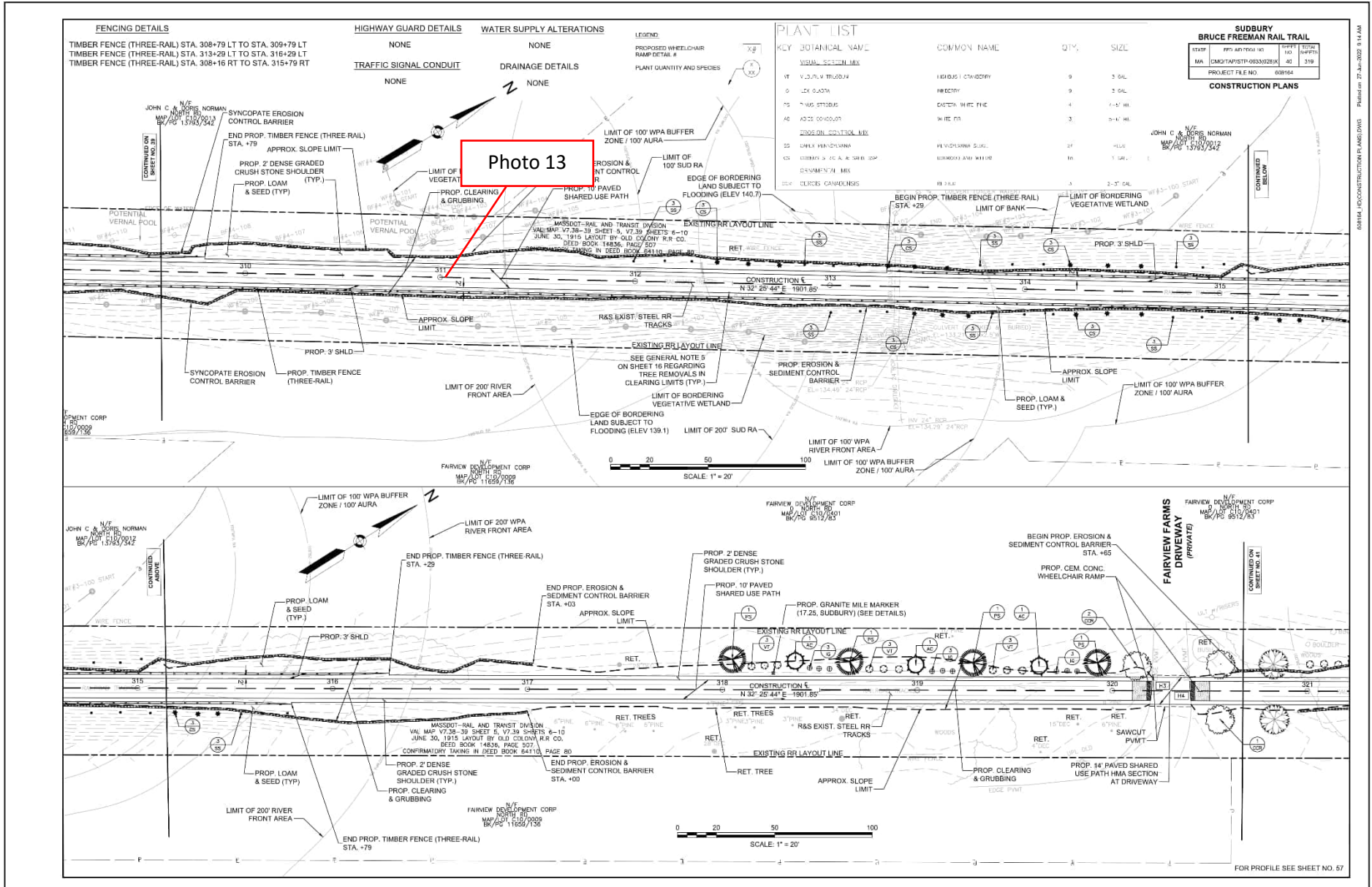


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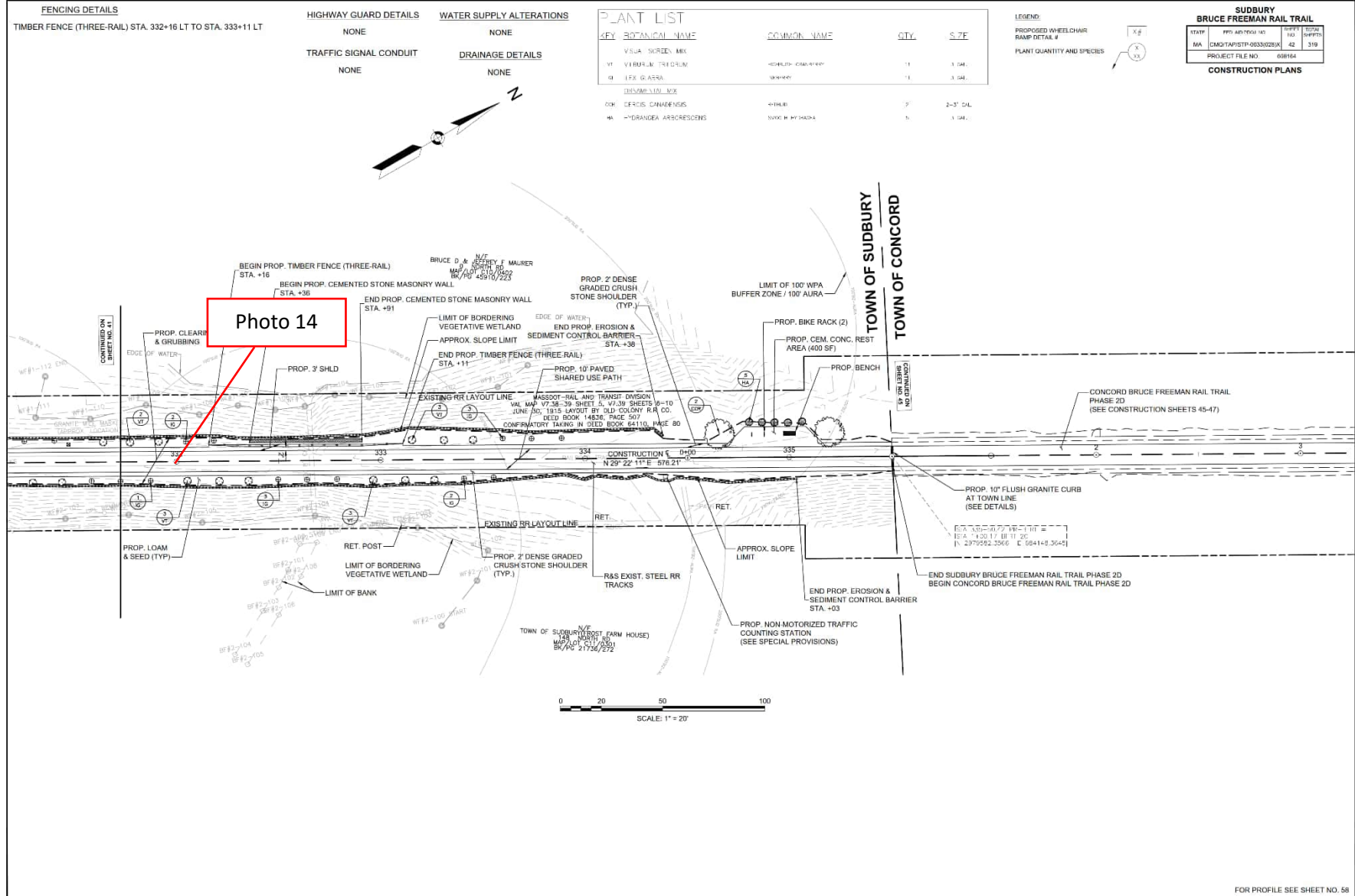


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038164-10-CONSTRUCTION PLANS.DWG | Printed on: 27-Jun-2025 9:14 AM



03/14/25 CONSTRUCTION PLANS.DWG Pinned on 7/24/2025 9:16 AM

<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way	<b>BETA Project No.</b> 24.10326.23
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**Photo No. 1**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the North

**Description:**  
  
View of the location of the overtopped compost filter tube and exposed soils beyond the limits of work at Station 105+00 per Compliance Action Item 43.



**Photo No. 2**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the South

**Description:**  
  
View of exposed soil that requires stabilization at Station 163+00 per Long Term Compliance Action item 59.



<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way	<b>BETA Project No.</b> 24.10326.23
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**Photo No. 3**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the North

**Description:**  
  
View of Japanese knotweed that require removal in an area of exposed soil at Station 170+00 per Long Term Compliance Action Item 59 and 61.





**Photo No. 4**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the South

**Description:**  
  
View of the location where stone is present under the leaf litter at Station 172+00 per Compliance Action Item 53.





<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way		<b>BETA Project No.</b> 24.10326.23
<b>Photo No. 5</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the East		
<b>Description:</b>  View of buckthorn within the wetland replication area per Long Term Compliance Action Item 61.		
<b>Photo No. 6</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the North		
<b>Description:</b>  View of the location where the stream bank has been regraded beyond the limits of work and exposed soils along the Bank at Station 215+75 per Long Term Compliance Action Items 41 and 62. Note some vegetation has been observed along the Bank.		

<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way	<b>BETA Project No.</b> 24.10326.23
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**Photo No. 7**     **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the South

**Description:**  
  
View of exposed soils requiring stabilization and scour erosion at Station 216+00 per Compliance Action Item 62. Note some vegetation has been observed along the Bank.



**Photo No. 8**     **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the East

**Description:**  
  
View of exposed soils requiring stabilization and scour erosion at Station 217+25 per Long Term Compliance Action item 62.



<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way		<b>BETA Project No.</b> 24.10326.23
<b>Photo No. 9</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the North		
<b>Description:</b>  View of exposed soils that require stabilization at Station 252+00 per Long Term Compliance Action Item 59.		
<b>Photo No. 10</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the East		
<b>Description:</b>  View of exposed soils along the Bank of Pantry Brook that requires the application of seed at Station 264+50 per Long Term Compliance Action Item 59.		

<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way	<b>BETA Project No.</b> 24.10326.23
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**Photo No. 11**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the North

**Description:**  
  
View of exposed soil at Station 294+00 per Long Term Compliance Action Item 61.





**Photo No. 12**    **Date:**  
5/29/2025

**Direction Photo Taken:**  
  
Toward the East

**Description:**  
  
View of Japanese hops that require removal at Station 1103+00 per Long Term Compliance Action Item 57-1.



<b>Site Location</b> Bruce Freeman Rail Trail Right-of-Way		<b>BETA Project No.</b> 24.10326.23
<b>Photo No. 13</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the North		
<b>Description:</b>  View of the location of placed loam that requires stabilization at Station 311+50 per Long Term Compliance Action Item 59.		
<b>Photo No. 14</b>	<b>Date:</b> 5/29/2025	
<b>Direction Photo Taken:</b>  Toward the South		
<b>Description:</b>  View of the location of the riprap slope that extends beyond the limit of work along the WF1 Series wetland and exposed soil requiring stabilization at Station 332+00 per Long Term Compliance Action Item 42 and 59.		