

Environmental Monitor Construction Site Inspection Report
MassDOT Project #608164 Construction Contract # 119678
EM Report #19

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:	8/20/2024
Bi Weekly/ Monthly Period Covered:	August Weekly Inspection #5
Inspector's Name(s):	Anna Haznar
Inspectors' Contact Information:	ahaznar@beta-inc.com

II. Weather Information

	Inspection #1	Inspection #2	Inspection #3	Inspection #4	Inspection #5
	Inspector: Anna Haznar 8/5/2024	Inspector: Anna Haznar 8/7/2024	Inspector: Anna Haznar 8/12/2024	Inspector: Anna Haznar 8/16/2024	Inspector: Anna Haznar 8/20/2024
WeatherUnderground					
Type of Inspection (i.e. non-storm event, pre-storm event, during-storm event or post-storm event):	Post-storm event	Post-storm event	Post-storm event	Post-storm event	Post-storm event
Number of days since last rain event greater than .25"	1	1	2	1	1
Has there been a storm event since the last inspection?	Yes	Yes	Yes	Yes	Yes
If yes, please provide storm start date, storm duration, and approx amount of precipitation:					
Storm 1:	August 5th (8 hours 0.89")	August 6th (15 hours 0.92")	August 9th (12 hours 0.26")	August 15th (4 hours 1.4")	August 19th (12 hours 0.58")
Storm 2:			August 11th (14 hours 0.29")		August 20th (2 hours 0.65")
Storm 3:					
Storm 4:					
Weather at the time of inspection (i.e. clear, overcast, cloudy, rain, sleet, fog, snow, windy):	Clear	Overcast	Clear	Overcast	Overcast
Temperature:	82	62	73	68	66
Unusual Conditions (drought, severe storm):					
Have any discharges occurred since the last inspection report?	Yes	Yes	No	No	No
If yes, please describe:	Runoff from the stamped concrete splitter island was observed within the streambed at Station 216+00, crushed stone was observed within LUW at Station 170+00 and 215+00 to 217+50	Additional discharge of crushed stone was observed within the LUW at Station 216+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

8/5/2024 - At the time of the Site visit, crews were installing the stamped concrete splitter islands at multiple intersections throughout the Project.

8/7/2024 - At the time of the Site visit, crews were testing the newly installed traffic lights at the Hudson Road intersection.

8/12/2024 - At the time of the Site visit, treatment of Japanese hops and invasive species was occurring throughout the Project, installation of kiosks was occurring at Station 217+00 and Station 1001+00, and installation of traffic lights was ongoing at the Hudson Road intersection.

8/16/2024 - At the time of the Site visit, crushed stone was being removed from the streambed at Stations 215+00 to 217+00 and stone was being installed along the Banks. In addition, installation of concrete was occurring at various intersections.

8/20/2024 - At the time of the Site visit, signage was being installed at the Hudson Road intersection.

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. While areas upgradient of degraded controls are temporarily stabilized at some locations, several discharges of sediment beyond the limits of work were observed including at Station 170+00, Stations 172+00 to 173+00. It is recommended that the contractor repair erosion and sedimentation control measures where breaches are occurring and where stabilization has not been achieved. Areas where stabilization has commenced should be monitored for germination, as replacement of erosion controls may not be required if stabilization is achieved. 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.
Inlet Protection Measures	No	
Stabilized Construction Entrances	No	
Stockpile Protections	No	
Dust Control	No	
Street Sweeping	Yes	Sweeping of stone dust is required on the path at Station 297+00 to 298+00 and at Station 308+00. 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	Yes	Concrete requiring proper disposal was observed adjacent to the Pantry Road intersection.
Location of Sanitary Waste Facilities	No	
Washout Areas	No	
Fertilizers, Herbicides, and Landscape Material	N/A	
Stabilization of Exposed Soil	Yes	Varying degrees of stabilization are present within areas that were constructed/graded as part of the Project. Stabilization efforts are required at Station 105+00 to 106+00, Stations 172+00 to 175+00, Station 217+45, Station 225+50, Station 265+50 to 273+00, Stations 313+00 to 316+00 and along the driveway to the parking lot near Station 216+50. Stabilization has commenced via application of hydroseed at the majority of these locations and should be monitored for successful establishment.
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. In addition, continued control of Japanese hops is required per Compliance Action Item 58.

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 [August 31, 2024].

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
58	Concrete requiring removal was observed from the side of the path adjacent to the Pantry Road intersection Priority: High	8/20/2024	8/27/2024	Remove and properly dispose of concrete	
56	Crushed stone discharged to the swale at Station 170+00 Priority: High	8/5/2024	8/12/2024	Remove crushed stone from swale and provide more robust erosion and sediment controls	8/7/2024 - Observation remains. 8/12/2024 - Observation remains. Stone was observed to have migrated further down the swale to Station 170+50 through Station 171+00. 8/16/2024 - Stone is still present within the swale. 8/20/2024 - Observation remains.
53	Stone was observed requiring removal from the swale on the east side of the trail at Station 172+00 to 173+00 Priority: High	7/29/2024	8/6/2024	Remove stone from the swale.	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.

52	Slope along the driveway to the parking lot at Station 216+50 requires stabilization Priority: Medium	7/29/2024	8/6/2024	Install erosion control blanket and place seed.	8/5/2024 - Observation remains. 8/7/2024 - Observation remains. 8/12/2024 - Observation remains. 8/16/2024 - Observation remains 8/20/2024 - Observation remains. Erosion controls have been installed between the slope and the downgradient stream, but seed is still required.
51	Stone dust requiring sweeping was observed within and to the east of the trail at Station 297+00 to 298+00 and 308+00. Priority: High	7/29/2024	8/6/2024	Sweep stone dust from trail and sides of trail.	8/5/2024 - Observation remains. 8/7/2024 - Observation remains. Crushed stone was observed in the path throughout the Project in varying volumes and requires sweeping. 8/12/2024 - Crushed stone was observed on the path throughout the Project. 8/16/2024 - Crushed stone is still present. 8/20/2024 - Observation remains.
43	Overtopped compost filter tubes and exposed soils beyond the limits of work at Station 105+00 Priority: High	6/7/2024	6/14/2024	Stabilize the area with the approved seed mixture and provide interim stabilization such as straw mulch.	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.
44	Slopes require stabilization / additional seed due to lack of compost filter tubes at 105+00 and 106+00 Priority: High	6/7/2024	6/14/2024	Stabilize the slope with the approved seed mixture and provide interim stabilization such as straw mulch.	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 - Regrowth of vegetation has been observed in this area. This item will remain open until the area is fully stabilized. 8/5/2024 - Observation remains. 8/7/2024 - Regrowth of vegetation has been observed but the area is not yet 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.

47	Slope stabilization required due to condition of compost filter tubes at Station 265+50 and 273+00 Priority: High	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.</p>
34	Sediment is eroding downhill from behind the cemented stone masonry wall at Station 217+45 Priority: Low	5/28/2024	6/4/2024	Apply seed and temporarily stabilize the soils along the slope with straw, jute netting, etc.	<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 - Rills were raked, loam was added, and hydroseed was applied. 7/8/2024 - Observation remains. Grass was observed to be germinating at this location. Comment will remain open until stabilization is complete. 7/8/2024 - See previous update. 7/15/2024 - Additional hydroseed is required due to washouts. 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. Regrowth has stabilized a portion of this hill; however, reseeding and additional temporary stabilized measures are recommended on the section that is currently unvegetated. 8/16/2024 - Observation remains. 8/20/2024 - Application of the approved seed mixture is required at this location.</p>
32	Soil and organic debris has been placed within the wetland between wetland flagging WF#23-119 and WF#23-118 at Station 224+00 Priority: High	5/21/2024	5/28/2024	Remove all material and provide stabilization of the area with the approved wetland seed mixture. Straw should also be placed for interim stabilization.	<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.</p>

6	Exposed sediment slope at Station 172+00 to 175+00 Priority: High	5/8/2024	5/15/2024	Install temporary sediment controls along the slope such as jute netting and/or straw following the application of seed.	<p>5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Partial germination was observed. 5/31/2024 - See previous update. 6/7/2024 - Further earthwork has occurred and soils require stabilization. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - The area has been regraded and loam has been spread. New trees have been planted upgradient of the swale. Stabilization is still required. 7/8/2024 - Jute netting has been installed over the applied seed, and the area will be monitored for germination. 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 was observed in this location. This item will remain open until stabilization has been completed. 8/12/2024 - Observation remains. 8/16/2024 - Observation remains. 8/20/2024 - Application of the approved seed mixture is required at this location.</p>
23	Sediment has accumulated within the cattle crossing at Station 258+00 and is migrating towards adjacent wetlands Priority: High	5/8/2024	Resolved: 8/20/2024 5/15/2024	Remove all accumulated sediment and address the sediment release at the source through additional erosion controls and stabilization measures.	<p>5/16/2024 - Observation remains. 5/21/2024 - Partial sediment removal has been completed. It appears that this accumulation of sediment may be occurring due to offsite inputs and may require coordination with MassDOT. 5/28/2024 - Observation remains. 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 - Observation remains. 7/29/2024 - Observation remains. 8/5/2024 - Observation remains. 8/7/2024 - Material is still present within the cattle crossing. 8/12/2024 - Observation remains. 8/16/2024 - Observation remains. 8/20/2024 - A majority of the sediment has migrated and is no longer visible within the cattle crossing.</p>
50	Catch basin requiring inlet protection at the Hudson Road intersection Priority: Medium	7/15/2024	Resolved: 8/20/2024 7/22/2024	Install inlet protection within the catch basin.	<p>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. 8/16/2024 - Observation remains. 8/20/2024 - The area around the catch basins have been paved and are stabilized.</p>

55	Crushed stone dust was observed requiring removal from the streambed on the west side of the path at Station 215+00 to 217+50 Priority: High	8/5/2024	Resolved: 8/20/2024 8/12/2024	Remove crushed stone from streambed and provide more robust erosion controls	8/7/2024 - Observation remains. 8/12/2024 - Observation remains. 8/16/2024- Crushed stone requires removal at Station 217+50. 8/20/2024 - Crushed stone has been removed.
54	Runoff associated with the stamped concrete splitter island was observed requiring removal from the streambed on the west side of the path at Station 216+00 Priority: High	8/5/2024	Resolved: 8/16/2024 8/12/2024	Remove runoff from streambed and provide more robust erosion controls	8/7/2024 - Runoff was not visible within the streambed post-storm, but was still present downgradient and upgradient of erosion controls. Erosion controls at this location have been undermined and there is potential for more runoff to enter the streambed. This item will remain open until the material has fully hardened. 8/12/2024 - Material has not hardened and is still present within the streambed. 8/16/2024 - Material is hardened and was not observed.
26	Erosion and migration of gravel into a stream observed along the east side of the trail at Stations 292+00 to 294+50 Priority: High	5/8/2024	Resolved: 8/7/2024 5/15/2024	Add or replace erosion controls and remove the gravel eroding into wetlands and streams. Replace gravel and/or supplement with larger stone.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. Recently placed loam should be stabilized to prevent sediment-laden runoff from discharging to the stream. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. Soils require stabilization and erosion was observed up to Station 299+00. 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 - Material is no longer present.

14	Sediment-laden runoff is being discharged into a stream from the new parking lot at Station 216+50 Priority: High	5/8/2024	Resolved: 8/7/2024 5/15/2024	Replace compost filter tubes around the stream and develop a method of redirecting runoff from the parking lot at the source.	5/16/2024 - New compost filter tubes have been installed but were observed to be undermined. In addition, a new earthen slope was observed to be constructed in this area and requires stabilization. 5/21/2024 - No turbidity was observed due to no rain preceding this inspection. However, additional erosion controls should be explored at this location to prevent future discharges. 5/28/2024 - Untreated runoff being discharged from the parking area has not been addressed, and work is occurring along the stream beyond the compost filter tubes. 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 - See previous update. 7/22/2024 - Observation remains. 7/29/2024 - Observation remains. 8/5/2024 - Observation remains. 8/7/2024 - Runoff has not been observed discharging to the stream from this location. Reference Compliance Action Items 52, 54 and 55 regarding other discharges in this area.
27	Material washout was observed along the west side of the trail from Stations 313+00 to 316+00 Priority: High	5/8/2024	Resolved: 8/7/2024 5/15/2024	Provide supplemental erosion controls and stabilize the slope.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - No further sediment migration was observed. Additional stabilization measures have not been installed. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area has been hydroseeded. 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 - Washed out material is no longer present
18	Sediment migration beyond the limits of work at Stations 238+00 to 241+00 Priority: Medium	5/8/2024	Resolved: 8/7/2024 5/15/2024	Stabilize steep slopes with jute netting or compost filter tubes to prevent additional land movement and erosion.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Hydroseed has been applied; however, accumulated sediment beyond the limits of work requires removal. 5/31/2024 - Observation remains. 6/7/2024 - Application of seed is required for stabilization. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area has been hydroseeded and germination was observed. 7/8/2024 - Germination was observed and the area will be monitored for stabilization. 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 - This area has become stabilized.

17	Sediment migration beyond the limits of work at Stations 236+00 to 238+00 Priority: High	5/8/2024	Resolved: 8/7/2024 5/15/2024	Remove accumulated sediment from areas beyond the limits of work and replace compost filter tubes. Once any grading work is completed, apply seed to the slope and stabilize it with jute netting, straw, etc.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Hydroseed has been applied; however, accumulated sediment beyond the limits of work requires removal. 5/31/2024 - Observation remains. 6/7/2024 - Application of seed is required for stabilization. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area has been hydroseeded and germination was observed. 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 occurred in this area and the accumulated sediment is no longer present.
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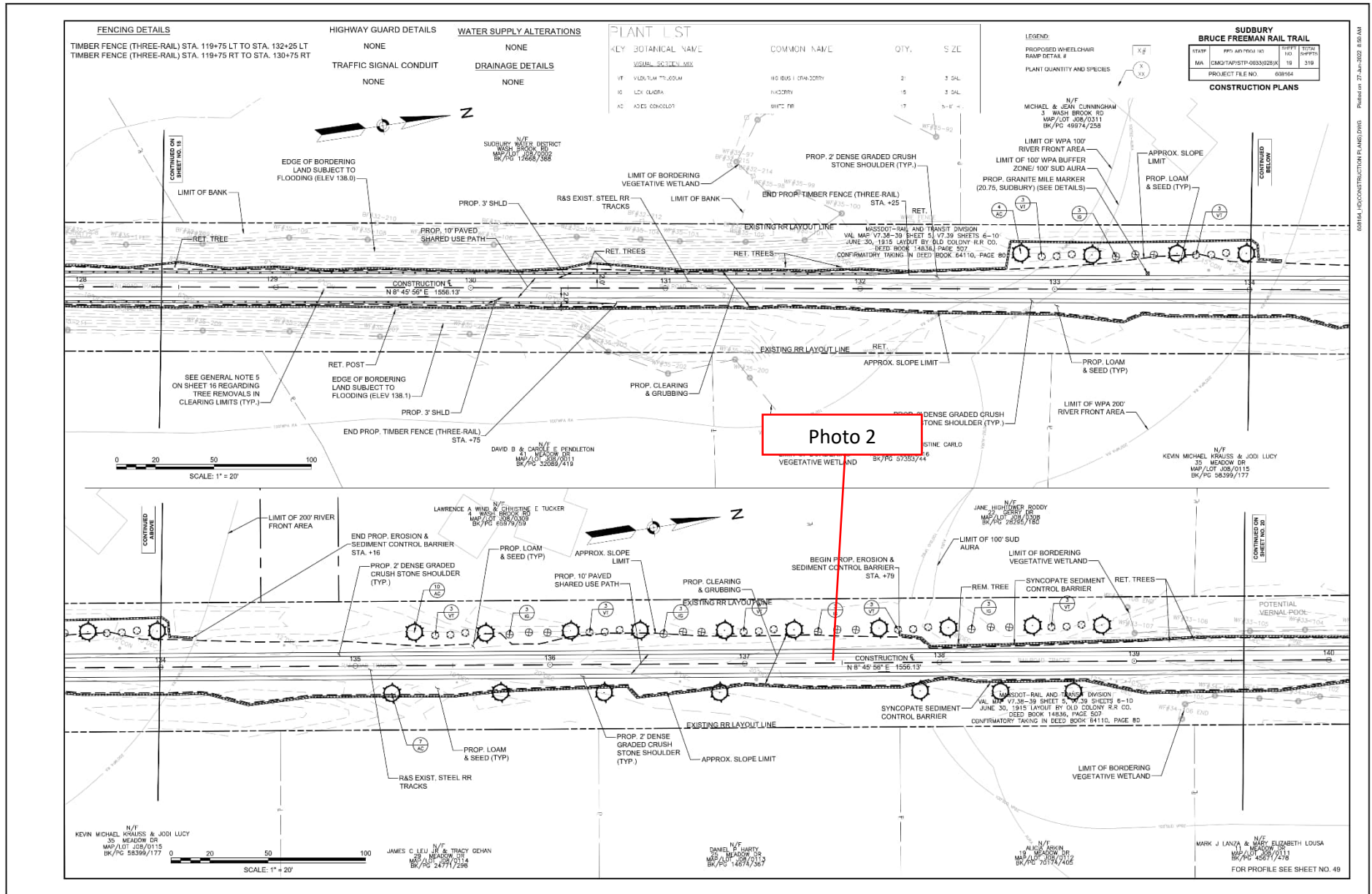
V.2. On Going (Longer-Term) Compliance Items

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
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 Priority: High	8/7/2024	8/14/2024	Remove all crushed stone from Resource Areas and develop a plan to cease discharges of stone.	8/12/2024 - Crushed stone is still present in varying amounts throughout the path and on the sides of the path. 8/16/2024 - Observation remains. 8/20/2024 - Crushed stone has been removed from some adjacent resource areas but is still observed as migrating onto and off of the path in multiple locations throughout the Project.

57	<p>Japanese hops (<i>Humulus japonicus</i>) has been observed throughout the Project and requires removal Priority: High</p>	8/5/2024	8/12/2024	<p>The Contractor should perform varying removal approaches including herbicide treatment and hand pulling to remove the vegetation throughout the Project.</p>	<p>8/5/2024 - Removal methods, including herbicide work and hand pulling have been observed to remove the plant throughout the Project. 8/7/2024 - Japanese hops and other invasives appear to be wilting due to herbicide application. Multiple areas along the trail appear to have not been treated and seed heads have appeared on some of the plants that were not treated. A second application of herbicide and pulling of plants with seedheads is recommended to ensure spreading does not continue. 8/12/2024 - Herbicide application on the Japanese hops and other invasives was occurring at the time of the inspection. Plants that have been previously treated appear to be dead or wilting. 8/16/2024 - A majority of the Japanese hops were observed as wilting, while some plants do not appear to have been treated (i.e., near Station 1003+00). 8/20/2024 - Multiple areas throughout the Project where herbicide application was performed have been observed as no longer stable due to herbicide killing grass and other vegetation. These areas included but are not limited to Station 137+00 to Station 145+00 and Station 223+00 to Station 240+00. These areas should be reseeded to ensure stabilization.</p>
42	<p>Riprap slope extends beyond limits of work along the WF1 Series wetland near flags 103 to 107 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. 6/7/2024 - Observation remains. 6/14/2024 - Riprap slope has been altered and active construction is repairing the area. 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. 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. 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. 7/8/2024 - Germination was observed and the area will be monitored for stabilization. See previous updates regarding Conservation Commission coordination. 7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection. 7/22/2024 - See previous updates regarding Conservation Commission coordination. 7/29/2024 - Observation remains. 8/5/2024 - Observation remains. 8/7/2024 - Observation remains. 8/12/2024 - Observation remains. Regrowth of vegetation has been observed in this area and will continue to be monitored. 8/16/2024 - Observation remains. 8/20/2024 - Observation remains.</p>

41	Stream Bank has been regraded beyond the limit of work at Station 216+00 Priority: High	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.</p>
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					



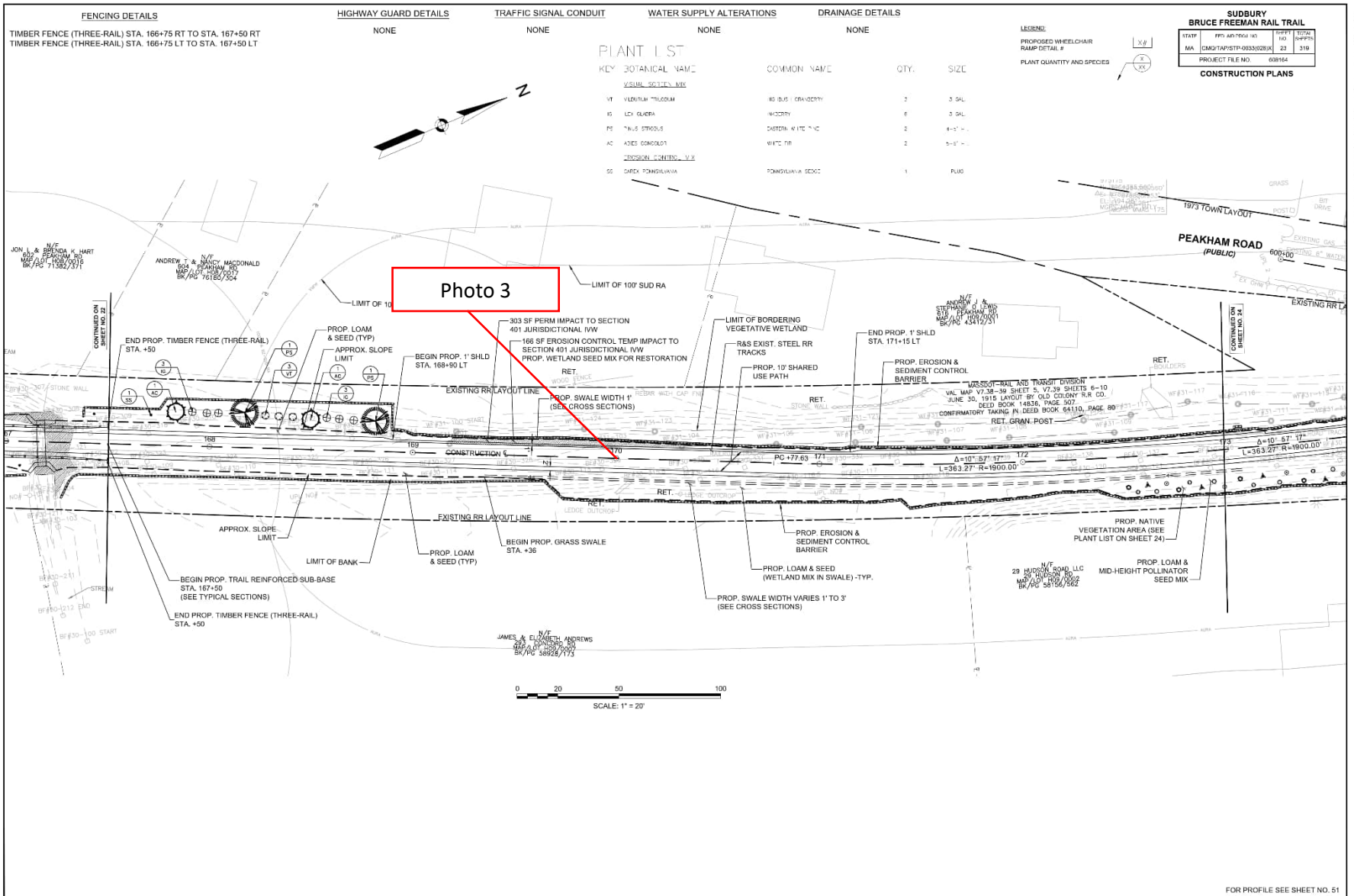
FENCING DETAILS		HIGHWAY GUARD DETAILS		WATER SUPPLY ALTERATIONS		PLANT LIST		LEGEND		SUDBURY BRUCE FREEMAN RAIL TRAIL	
TIMBER FENCE (THREE-RAIL) STA. 119+75 LT TO STA. 132+25 LT		NONE		NONE		KEY BOTANICAL NAME	COMMON NAME	QTY.	SZL	PROPOSED WHEELCHAIR RAMP DETAIL #	STAFF
TIMBER FENCE (THREE-RAIL) STA. 119+75 RT TO STA. 130+75 RT		TRAFFIC SIGNAL CONDUIT		DRAINAGE DETAILS		VEGETATIVE WETLAND	N/A	2'	3' GAL	PLANT QUANTITY AND SPECIES	DATE
		NONE		NONE		VT VILDMOR "L. COLM	HG BUS I STRA-322RY	15	3' GAL		19
		NONE		NONE		NO LZY CUDORA	N/A	17	3' GAL		319
						AC ADIES CONGLOLT	SHFC TR				

Photo 2

08/14/24 CONSTRUCTION PLANS.DWG | Released: 27-Aug-2024 8:50 AM

FOR PROFILE SEE SHEET NO. 49

08/14/24 CONSTRUCTION PLANS.DWG | Printed on: 27-Jul-2025 8:53 AM



PR-BFRT CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C4	170+77.63	2964187.519	678885.721	R=1900.00 Δ=10°57'17" L=363.27° T=182.19'		174+40.91	2964530.189	679004.642
C5	174+40.91	2964530.189	679004.642	R=250.00 Δ=6°08'42" L=26.81° T=13.42'		174+67.72	2964555.854	679012.359
L10	174+67.72	2964555.854	679012.359		N19°48'24"E 84.23'	175+51.95	2964635.105	679040.901
C6	175+51.95	2964635.105	679040.901	R=500.00 Δ=5°21'48" L=46.81° T=23.42'		175+98.76	2964678.335	679058.797
C7	175+98.76	2964678.335	679058.797	R=1050.00 Δ=5°22'01" L=98.36° T=49.21'		176+97.11	2964769.179	679096.401
L11	176+97.11	2964769.179	679096.401		N19°48'11"E 225.92'	179+22.94	2964981.648	679172.907

CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT
C104	57.74	40.00	82°42'36.78"	35.21
C106	25.74	15.00	98°10'48.34"	17.33
C107	59.15	40.00	84°42'39.51"	36.48
C108	6.86	5.00	78°36'27.83"	4.09
C111	16.70	10.00	95°19'25.81"	11.01

SUDBURY RAIL TRAIL BRUCE FREEMAN RAIL TRAIL			
STATE:	FIELD FILE NO.:	PROJECT NO.:	SHEET NO.:
MA	CNGT/AP/STP-003026X	71	319
PROJECT FILE NO.:		608184	

CURB & BASELINE TIE PLANS			
1336	8200	START	WF#20336 8200
1336	8207	END	WF#20336 8207
1336	8200	START	WF#20336 8200
1336	8207	END	WF#20336 8207

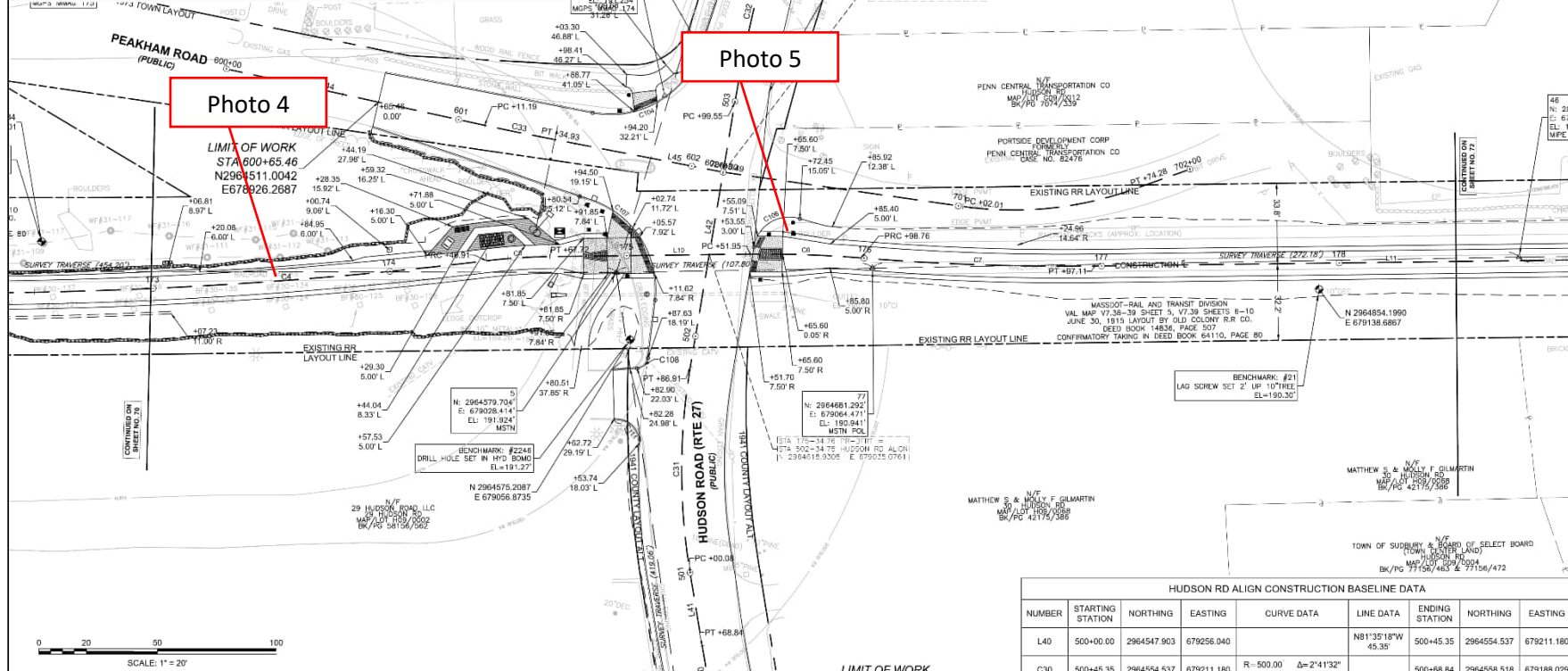
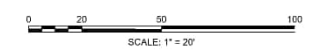


Photo 4

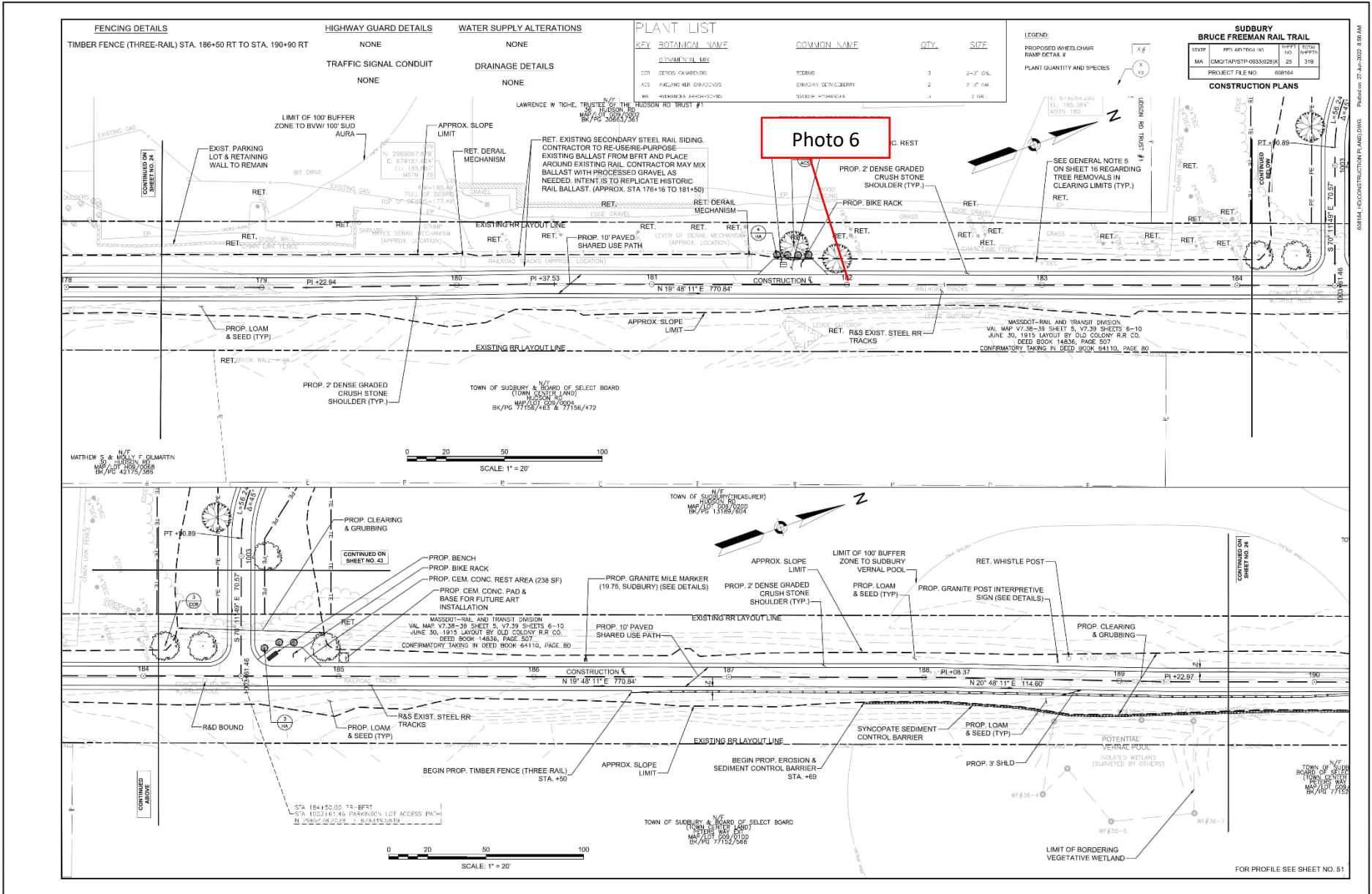
Photo 5

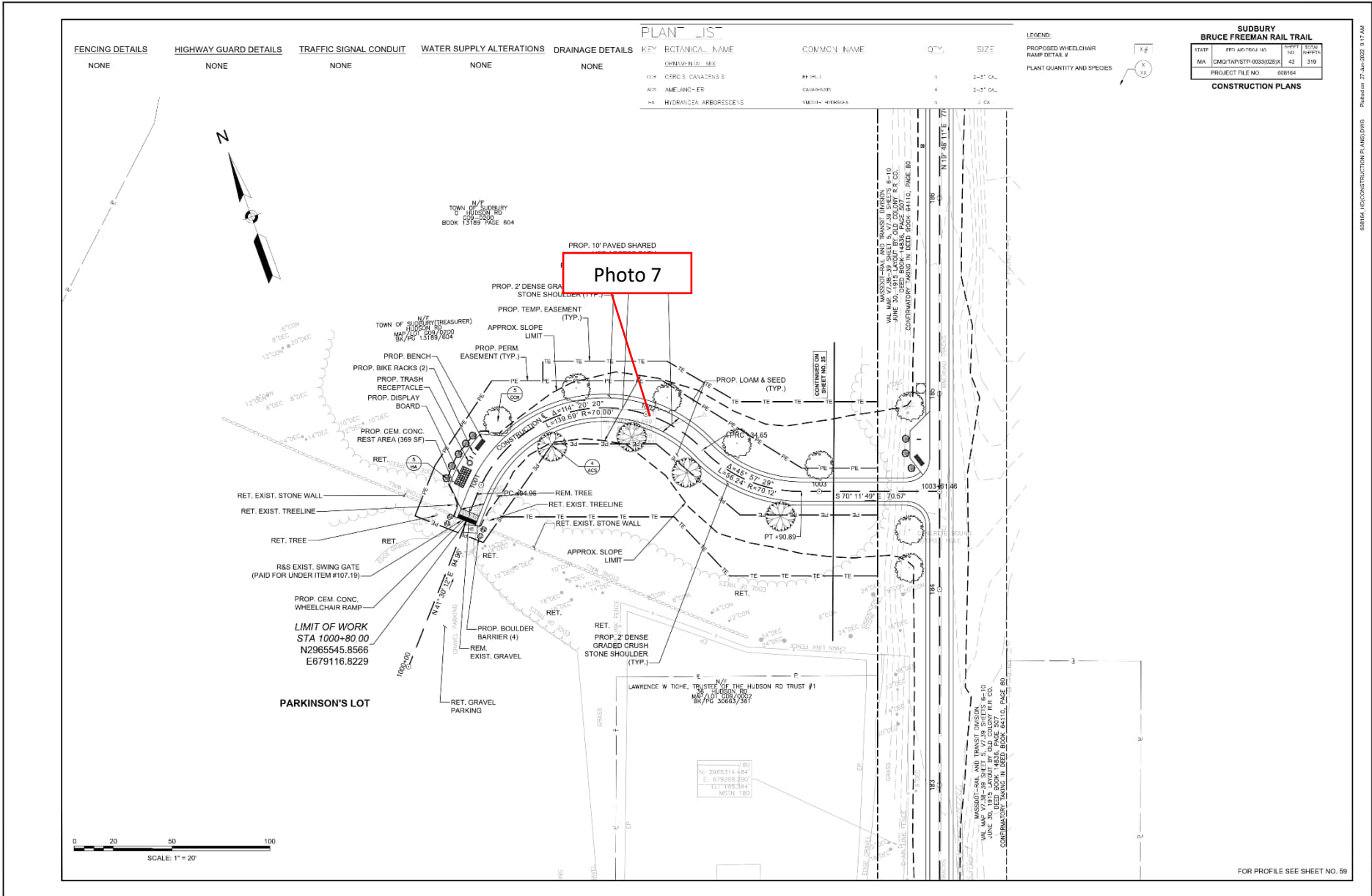


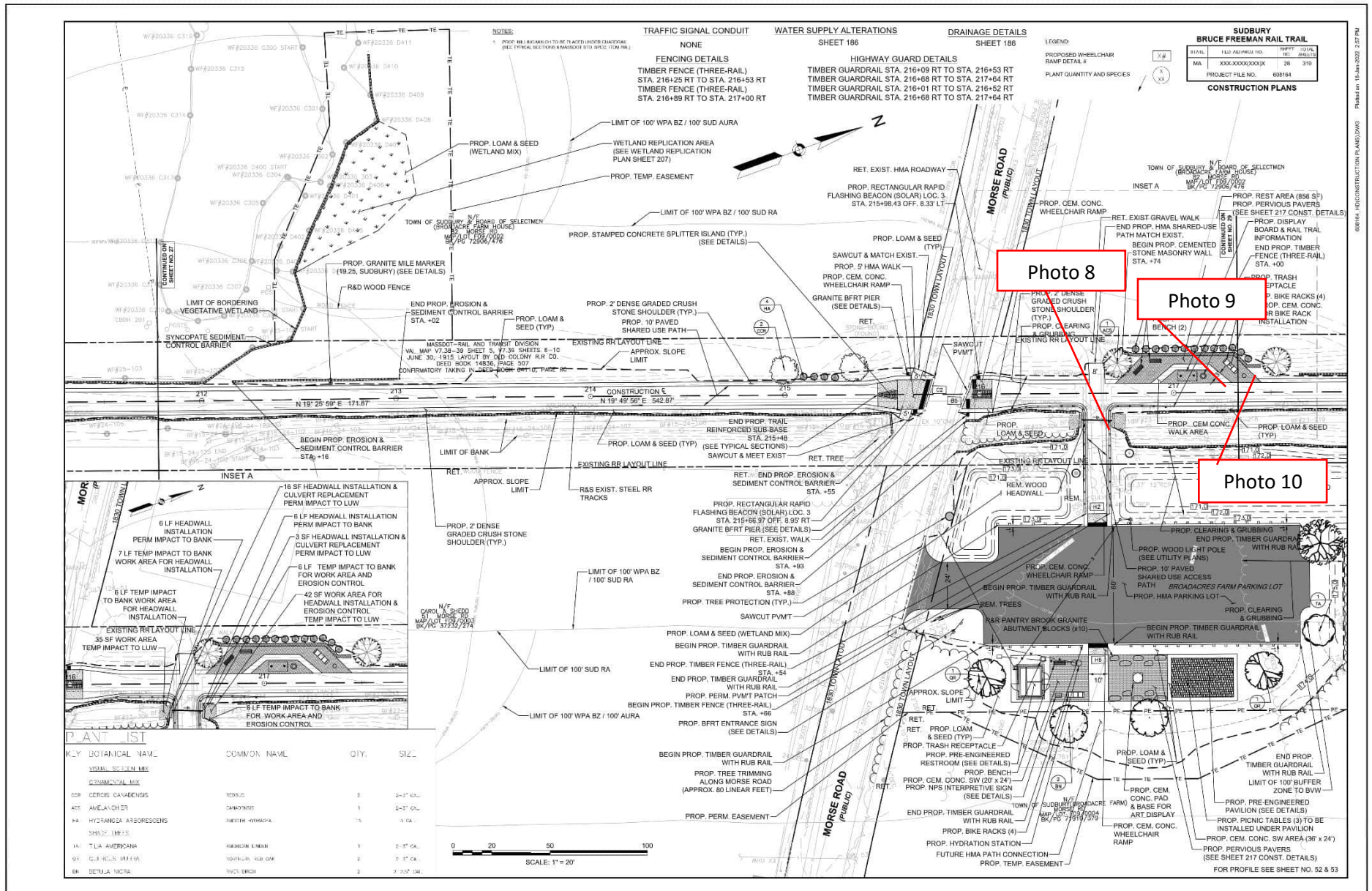
PEAKHAM CL CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L44	600+00.00	2964455.986	678890.793		N32°49'51"E 111.19'	601+11.19	2964549.437	678951.050
C33	601+11.19	2964549.437	678951.050	R=1000.00 Δ=1°21'36" L=23.74° T=11.87'		601+34.93	2964569.536	678963.675
L45	601+34.93	2964569.536	678963.675		N31°27'15"E 78.56'	602+13.49	2964636.552	679004.669

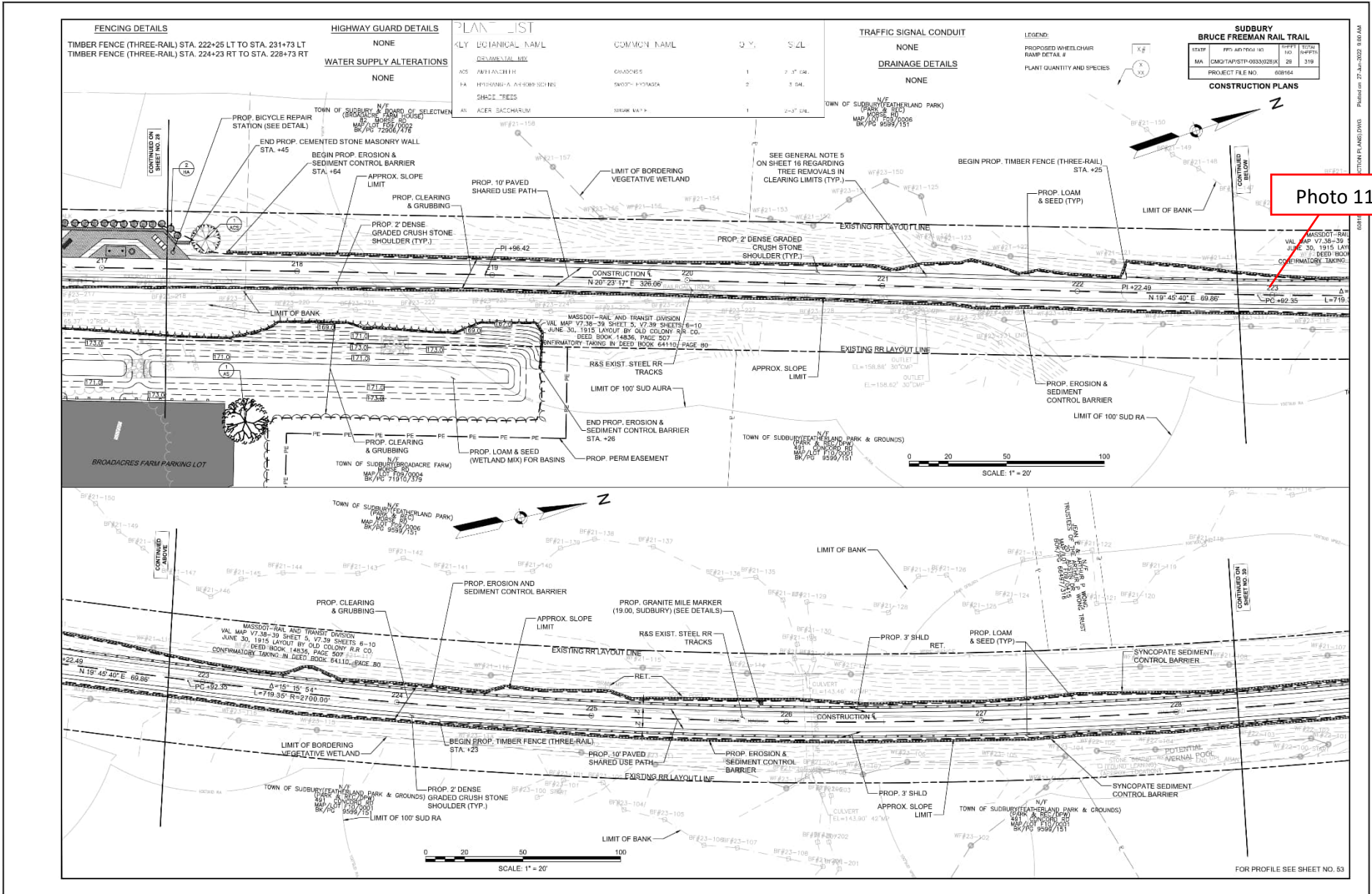
HUDSON RD ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L40	500+00.00	2964547.903	679256.040		N81°35'18"W 45.36'	500+45.35	2964554.537	679211.180
C30	500+45.35	2964554.537	679211.180	R=500.00 Δ=2°41'32" L=23.49° T=11.72'		500+68.84	2964558.518	679188.029
L41	500+68.84	2964558.518	679188.029		N78°53'48"W 31.23'	501+00.08	2964564.534	679157.380
C31	501+00.08	2964564.534	679157.380	R=282.00 Δ=18°55'19" L=86.63° T=43.82'		501+86.91	2964594.942	679076.472
L42	501+86.91	2964594.942	679076.472		N59°54'27"W 112.64'	502+99.55	2964651.420	678979.012
C32	502+99.55	2964651.420	678979.012	R=600.00 Δ=7°21'27" L=77.05° T=38.58'		503+76.60	2964684.220	678915.008
L43	503+76.60	2964684.220	678915.008		N52°33'00"W 53.40'	504+30.00	2964726.692	678872.613

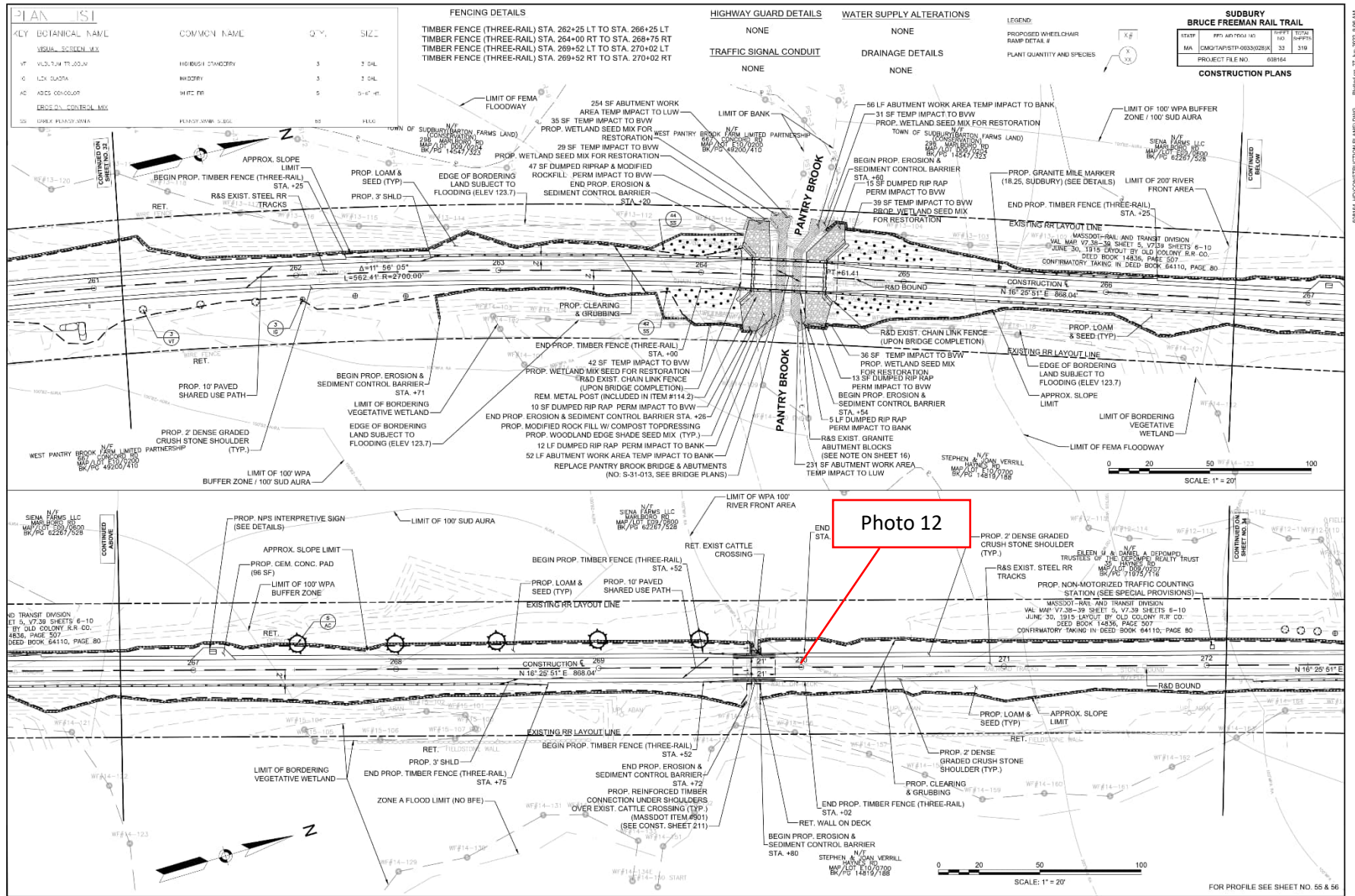
608184 - PEAKHAM & BASELINE TIE PLANS.DWG
Printed on 22-Jan-2025 10:08 AM

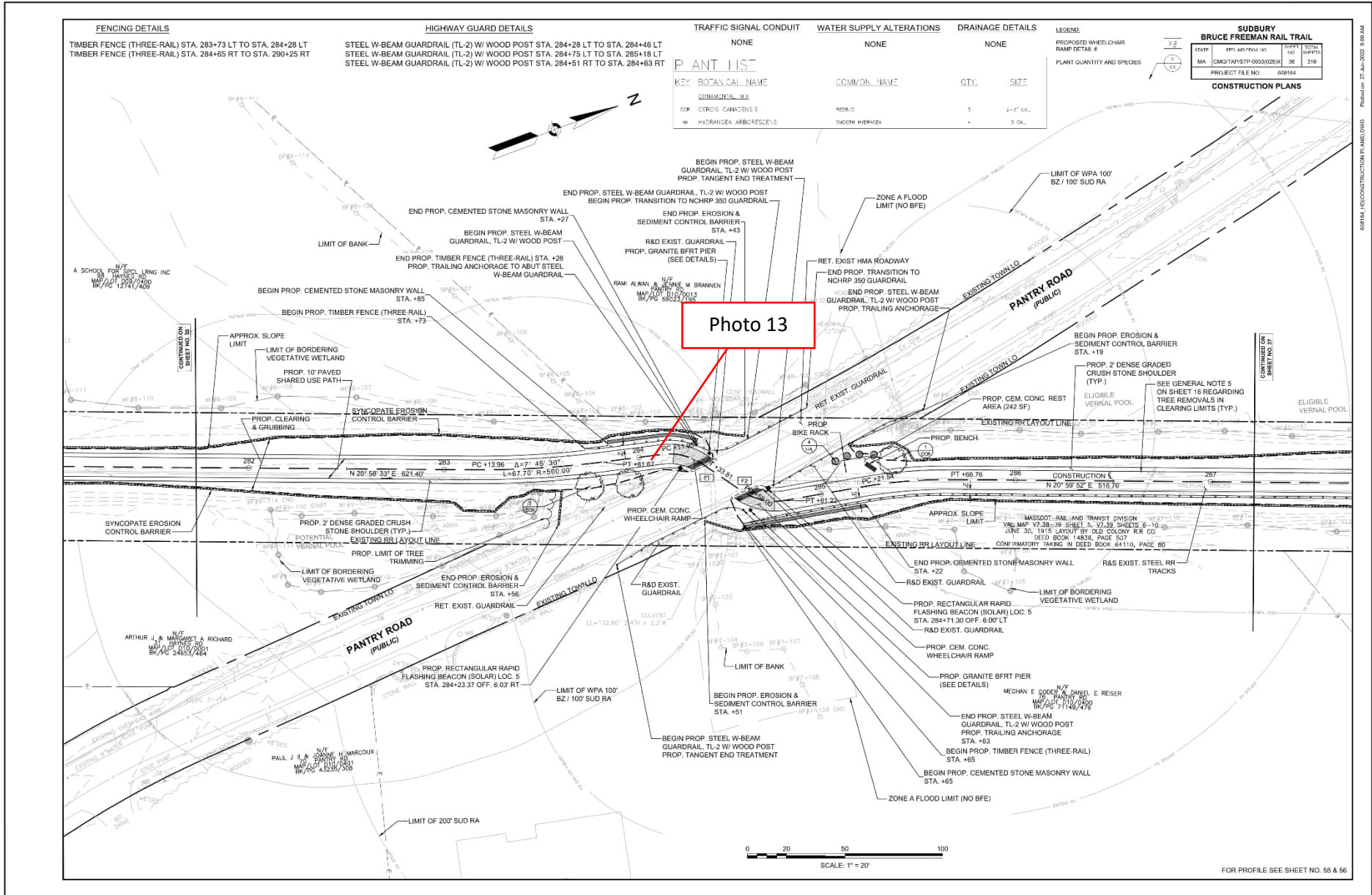




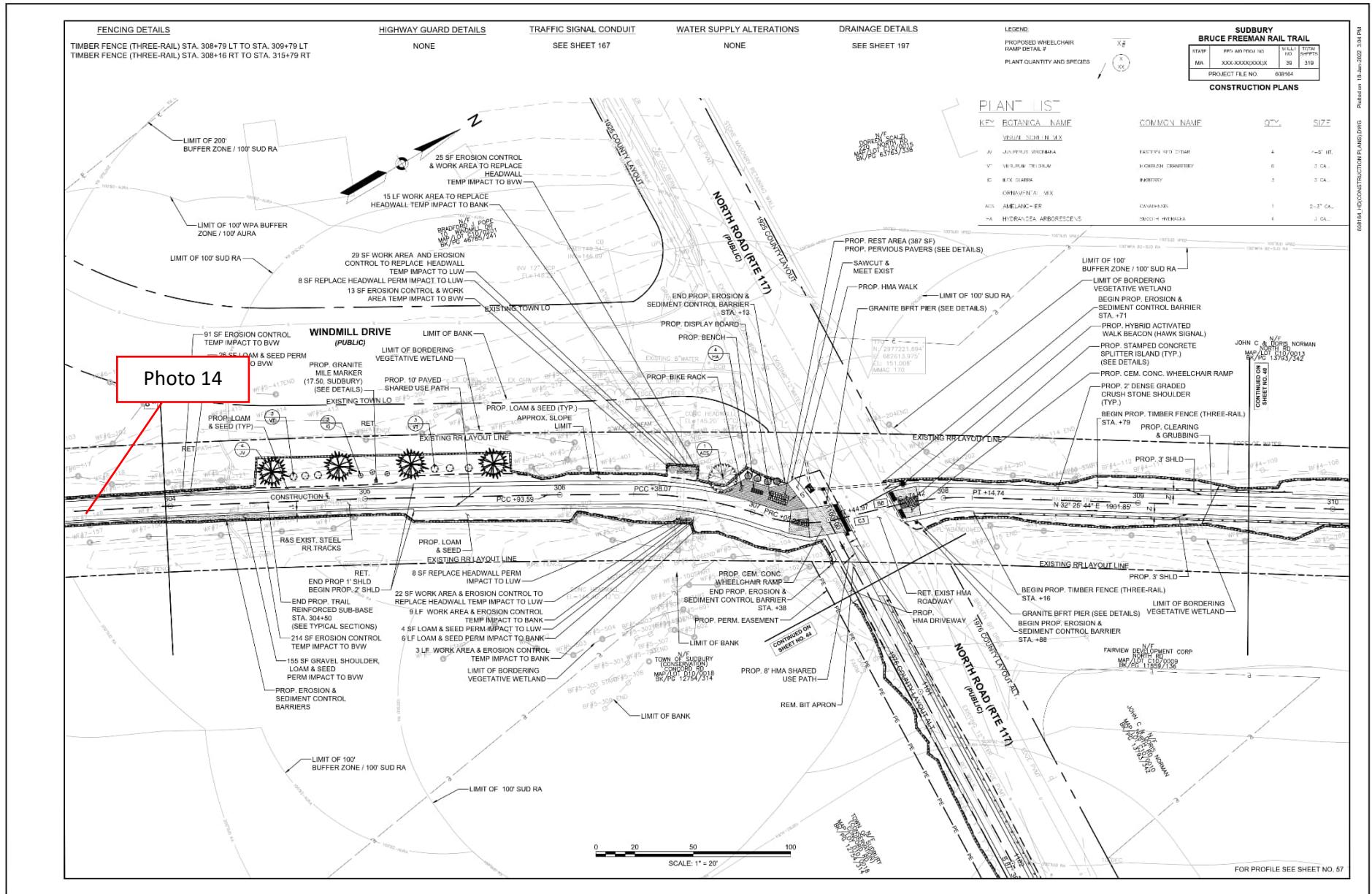








03/14/24 CONSTRUCTION PLANS.DWG | P:\24-000 | 27-Jul-2024 9:05 AM



038164-160-CONSTRUCTION PLANS.DWG | Printed on 18-Jun-2025 13:41 PM

Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 1 **Date:**
8/20/2024

Direction Photo Taken:

Toward the South

Description:

View of the slopes that require stabilization at Station 106+00 per Compliance Action Item 44.



Photo No. 2 **Date:**
8/20/2024

Direction Photo Taken:

Toward the East

Description:

View of a slope that has become destabilized due to herbicide application at Station 137+50 per Compliance Action item 57.



Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 3 **Date:**
8/20/2024

Direction Photo Taken:

Toward the Northeast

Description:

View of crushed stone that requires removal from the drainage swale at Station 170+00 per Compliance Action Item 56.



Photo No. 4 **Date:**
8/20/2024

Direction Photo Taken:

Toward the Northeast

Description:

View of crushed stone that requires removal from the swale at Station 173+50 per Compliance Action Item 53.



Site Location	Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 5 **Date:**
8/20/2024

Direction Photo Taken:

Toward the North

Description:

View of the active installation of signage at the Hudson Road intersection.



Photo No. 6 **Date:**
8/20/2024

Direction Photo Taken:

Toward the East

Description:

View of crushed stone that has migrated off of the side of the path at Station 182+00 per Long Term Compliance Action Item 55.



Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 7 **Date:**
8/20/2024

Direction Photo Taken:

Toward the East

Description:

View of an area where Japanese hops require treatment at Station 1002+00 per Long term Compliance Action Item 57.



Photo No. 8 **Date:**
8/20/2024

Direction Photo Taken:

Toward the North

Description:

View of the slope that requires stabilization along the driveway to the parking lot at Station 216+50 per Compliance Action item 52. Unpermitted work per Long Term Compliance Action Item 41 is still occurring.



Site Location Bruce Freeman Rail Trail Right-of-Way		BETA Project No. 24.10326.23
Photo No. 9	Date: 8/20/2024	
Direction Photo Taken: Toward the South		
Description: View of the location where crushed stone has been removed from the streambed at Station 217+50 and erosion controls have been installed per resolved Compliance Action Item 55.		
Photo No. 10	Date: 8/20/2024	
Direction Photo Taken: Toward the East		
Description: View of the slope located behind the cemented masonry wall at Station 217+45 that has become partially stabilized and requires reseeding per Compliance Action Item 34.		

Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 11 **Date:**
8/20/2024

Direction Photo Taken:

Toward the Northeast

Description:

View of another area that has become destabilized due to herbicide application at Station 223+00 per Long Term Compliance Action item 57.



Photo No. 12 **Date:**
8/20/2024

Direction Photo Taken:

Toward the Southeast

Description:

View of the a slope requiring stabilization at Station 270+00 per Compliance Action Item 47.



Site Location Bruce Freeman Rail Trail Right-of-Way		BETA Project No. 24.10326.23
Photo No. 13	Date: 8/20/2024	
Direction Photo Taken: Toward the West		
Description: View of concrete at the Pantry Road intersection that requires proper removal and disposal per Compliance Action Item 58.		
Photo No. 14	Date: 8/20/2024	
Direction Photo Taken: Toward the North		
Description: View of the location where crushed stone requires removal from the path. This photo was taken at Station 303+00; however, these conditions are present throughout the Project.		