

**Environmental Monitor Construction Site Inspection Report
MassDOT Project #608164 Construction Contract # 119678
EM Report #7**

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:	6/14/2024
Bi Weekly/ Monthly Period Covered:	June Weekly Inspection #2
Inspector's Name(s):	Douglas Beach
Inspectors' Contact Information:	dbeach@beta-inc.com

II. Weather Information

WeatherUnderground	Inspection #1	Inspection #2	Inspection #3	Inspection #4	Inspection #5
	Inspector: Jonathan Niro	Inspector: Douglas Beach	Inspector:	Inspector:	Inspector:
Type of Inspection (i.e. non-storm event, pre-storm event, during-storm event or post-storm event):	Non-storm event	Non-Storm Event			
Number of days since last rain event greater than .25"	11	5			
Has there been a storm event since the last inspection?	No	Yes			
If yes, please provide storm start date, storm duration, and approx amount of precipitation:					
Storm 1:		May 9th (3 hours - 0.27")			
Storm 2:					
Storm 3:					
Storm 4:					
Weather at the time of inspection (i.e. clear, overcast, cloudy, rain, sleet, fog, snow, windy):	Overcast, cloudy	Sunny, clear sky			
Temperature:	62-69	64-84			
Unusual Conditions (drought, severe storm):	No	No			
Have any discharges occurred since the last inspection report?	No	No			
If yes, please describe:					

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 (Note: Only filled out for Monthly Report)

6/7/2024 - At the time of the Site visit, landscaping crews were installing plantings and utility work was ongoing near the intersection of Hudson Road (Route 27) and Peakham Road.

6/14/2024 - At the time of the Site visit, landscaping crews were installing plantings and utility work was ongoing near the intersection of Hudson Road (Route 27) and Peakham Road. There was also ongoing construction at Station 332+00 to 333+00 for the repair of an outfall.

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 in some instances, several discharges of sediment beyond the limits of work were observed including at Station 105+00 to 106+00, Station 155+00 to 162+50, Station 201+50 to 204+00, Station 217+45, Station 221+50, Station 225+50, Station 222+00 to 241+00, Station 247+00, Station 252+00 to 253+00, Station 265+50 to 273+00, Station 292+00 to 294+50, and Station 313+00 to 316+00. It is recommended that the contractor repair erosion and sedimentation control measures where breaches are occurring and where stabilization has not been achieved. Perimeter controls were generally in degraded condition along culverts, streams, and cattle crossings. New erosion controls have been added at Stations 263+50 to 265+50.
Inlet Protection Measures	No	
Stabilized Construction Entrances	No	
Stockpile Protections	No	
Dust Control	No	
Street Sweeping	No	
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 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. While germination of seed and temporary stabilization have been achieved in several areas, stabilization efforts are required at Station 155+00 to 162+50, Station 201+50 to 204+00, Station 221+50, Station 225+50, Station 236+00 to 241+00, Station 247+00, Station 265+50 to 273+00, Station 310+00, and Stations 313+00 to 316+00. Generally, stabilization of these areas will require the establishment of herbaceous vegetation as depicted on the Project plans, and interim measures including but not limited to straw and jute netting could be used to promote germination.
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.

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 [June 30, 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
49	Concrete pile improperly disposed of at Station 307+00 Priority: Medium	6/14/2024	6/21/2024	Remove concrete pile from site and dispose of properly.	
48	Multiple concrete piles observed at the rest area near Station 216+00 Priority: Medium	6/14/2024	6/21/2024	Remove concrete piles from site and dispose of properly.	
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.
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.
45	Erosion observed along east side of trail at Station 225+50 Priority: Medium	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.
46	Erosion control breaches observed at Station 310+00 Priority: Medium	6/7/2024	6/14/2024	Repair erosion controls.	6/14/2024 - Observation remains.
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.	6/14/2024 - Observation remains.
36	Concrete pile improperly disposed of at Station 243+00 Priority: Low	5/28/2024	6/4/2024	Remove concrete pile from the area.	5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed. 6/14/2024 - Concrete needs to be removed from site once again.

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.	5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains.
33	Sediment is eroding downhill and offsite at Station 222+00 through Station 236+00 Priority: High	5/21/2024	5/28/2024	Remove rill erosion and remove over washed material from outside limit of work.	5/28/2024 - Hydroseed has been applied and germination was observed. No new erosion was observed. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. In addition, seed is required on the west side of the trail. 6/14/2024 - Observation remains.
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.	5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains.
3	Sediment washout over the slope and existing erosion controls at Stations 155+00 to 162+50 Priority: Low	5/8/2024	5/15/2024	Replace decomposed and damaged compost filter tubes in the areas necessary to contain sediment washout until stabilization measures are completed.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Grass and other vegetation has temporarily stabilized the area between Stations 155+00 and Station 160+00. Stations from 160+00 to 162+50 have not yet achieved temporary stabilization. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains.
5	Turbid water in swale at Stations 167+00 through 172+00 Priority: High	5/8/2024	5/15/2024	Stabilize all contributing areas to the swale and implement stabilization measures over exposed soils within the swale itself once water recedes. It is recommended that the contractor coordinate with MassDOT on stabilization within the swale, which may require jute netting and seed.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Good water quality was observed; however, no stabilization measures have been implemented. 5/31/2024 - Good water quality was present; however, no additional stabilization measures have been installed. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains.
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.	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.

13	Rill erosion is occurring along the west side of the trail at Stations 201+50 to 204+00 Priority: Low	5/8/2024	5/15/2024	Fill in rills and apply seed to stabilize the area. Temporary stabilization measures such as straw and/or jute netting may be required.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Rill erosion has not been filled; however, germination was observed. 5/31/2024 - Observation remains. 6/7/2024 - Vegetation is becoming established; however, rills should be filled in and seeded. 6/14/2024 - Observation remains.
14	Sediment-laden runoff is being discharged into a stream from the new parking lot at Station 216+50 Priority: High	5/8/2024	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.
15	Sediment migration off of the trail and into wetlands at Station 221+50 Priority: High	5/8/2024	5/15/2024	Replace damaged compost filter tubes and remove accumulated sediment from areas beyond the limits of work. 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 - The area has been hydroseeded. 5/31/2024 - No additional sediment migration was observed. See previous update. 6/7/2024 - Hydroseed is present but sediment beyond the compost filter tubes requires removal. 6/14/2024 - Observation remains.
16	Sediment migration beyond the limits of work at Stations 231+00 to 232+00 Priority: Medium	5/8/2024	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 - The area has been hydroseeded and additional sediment has not migrated since the last observation. 5/31/2024 - Observation remains. 6/7/2024 - Hydroseed is present but sediment beyond the compost filter tubes requires removal. 6/14/2024 - Observation remains.
17	Sediment migration beyond the limits of work at Stations 236+00 to 238+00 Priority: High	5/8/2024	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.
18	Sediment migration beyond the limits of work at Stations 238+00 to 241+00 Priority: Medium	5/8/2024	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.

19	Sediment migration into the stream at Station 247+00 Priority: High	5/8/2024	5/15/2024	Install compost filter tubes to prevent further sedimentation of the stream. If dry conditions are present, evaluate whether sediment removal is feasible.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - No additional sediment migration was observed. 6/7/2024 - Hydroseeding is providing sufficient stabilization and new compost filter tubes are likely not required. Item will remain open until stabilization is complete given the location being adjacent to a waterway. 6/14/2024 - Observation remains.
23	Sediment has accumulated within the cattle crossing at Station 258+00 and is migrating towards adjacent wetlands Priority: High	5/8/2024	5/15/2024	Remove all accumulated sediment and address the sediment release at the source through additional erosion controls and stabilization measures.	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.
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	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.
27	Material washout was observed along the west side of the trail from Stations 313+00 to 316+00 Priority: High	5/8/2024	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.
9	Rill erosion resulting in offsite sediment migration at Station 1003+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/14/2024 Fill in rills and apply seed to stabilize the area. Temporary stabilization measures such as straw and/or jute netting may be required.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Rill erosion has been filled in and raked over, and germination was observed. 5/31/2024 - Rill erosion has been filled in and raked over, germination has been observed, and additional plantings in the area have been added. 6/7/2024 - Observation remains. 6/14/2024 - Rill erosion has been filled and raked over and grass/plantings have become established.
28	Concrete pile improperly disposed of at Station 334+50 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/14/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Concrete pile has been removed.
39	Concrete pile improperly disposed of at Station 267+50 Priority: Low	5/28/2024	6/4/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.
37	Concrete pile improperly disposed of at Station 259+00 Priority: Low	5/28/2024	6/4/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.

31	Stabilize loam recently placed between Stations 256+00 and 292+00 Priority: High	5/16/2024	5/23/2024	Resolved: 6/7/2024 Apply seed and straw for stabilization.	5/21/2024 - Exposed soils have been partially stabilized with hydroseed. This Action Item will be resolved once additional hydroseed is applied. 5/28/2024 - Hydroseed has been applied and germination was observed. 5/31/2024 - Observation remains. 6/7/2024 - The area now appears to be sufficiently stabilized.
30	Concrete pile improperly disposed of at Station 101+00 Priority: Low	5/16/2024	5/23/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.
28	Concrete pile improperly disposed of at Station 334+50 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.
21	Washout and erosion issues on the east side of trail at Stations 255+50 to 256+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove material that has eroded offsite and add additional erosion control such as straw wattles, jute netting, or compost filter tubes.	5/16/2024 - Observation remains. 5/21/2024 - All rill erosion locations have been raked over eliminating channels, but eroded material must be removed from over washed erosion controls and location must be stabilized. 5/28/2024 - Observation remains. 5/31/2024 - No additional washout observed, grass is starting to stabilize area. 6/7/2024 - Hydroseed has been applied and it appears that overwashed materials are present over, but not beyond, the compost filter tubes. Hydroseed appears to be providing sufficient stabilization; the area will be monitored for erosion.
20	Rill erosion moving offsite on the West side of the trail at Stations 252+00 to 253+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Add or replace compost filter tubes or straw wattles to stabilize the immediate area until grass grows in.	5/16/2024 - Observation remains. 5/21/2024 - Rills have been raked over; however, the downgradient erosion and sediment controls require maintenance and the area requires stabilization. 5/28/2024 - Observation remains. 5/31/2024 - No additional over wash has been observed. 6/7/2024 - Hydroseed has been applied and it appears that overwashed materials are present over, but not beyond, the compost filter tubes. Hydroseed appears to be providing sufficient stabilization; the area will be monitored for erosion.
11	Concrete pile improperly disposed of at Station 185+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.
7	Concrete pile improperly disposed of at Station 181+50 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.

4	Concrete pile improperly disposed of at Station 163+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed.
2	Concrete pile requiring disposal at Station 143+50 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Remove concrete pile from the area.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains.
1	Trash and concrete improperly disposed of around Stations 125+50 through 126+00 Priority: Low	5/8/2024	5/15/2024	Resolved: 6/7/2024 Pick up loose trash and remove concrete pile from the area in accordance with the SWPPP.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains.

V.2. On Going (Longer-Term) Compliance Items

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

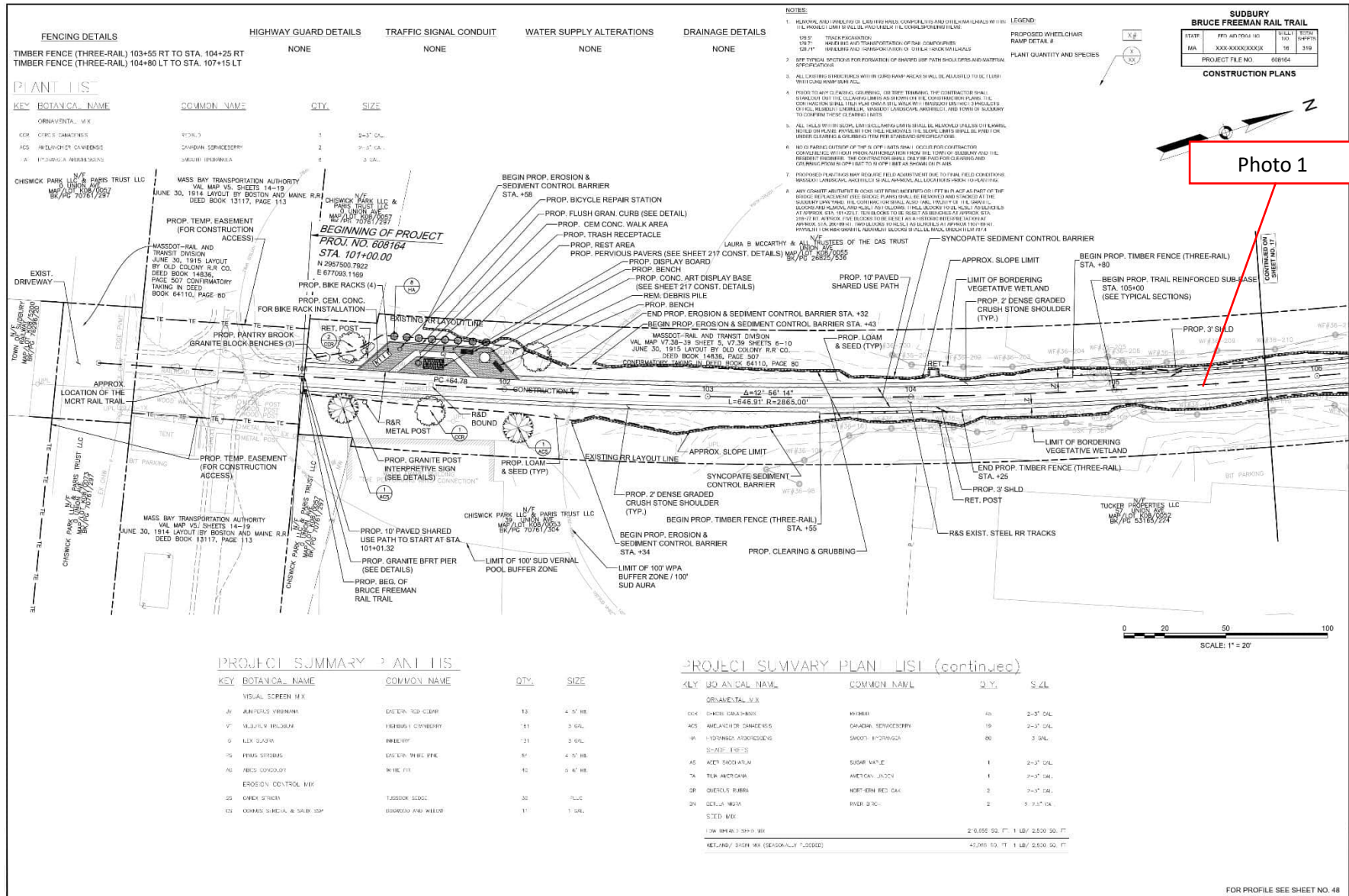
Item	Location/ Description	Observation Date	Resolution Due Date	Recommended/Discussed Resolution	Comments/Updates
42	Riprap slope extends beyond limits of work along the WF1 Series wetland near flags 103 to 107 Priority: High	5/28/2024	6/4/2024	The Contractor should confirm if this work was permitted 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.	5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Riprap slope has been removed and active construction is occurring in this area. Further updates will be provided as work progresses.
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.	5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains.

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
TIMBER FENCE (THREE-RAIL) 103+55 RT TO STA. 104+25 RT
TIMBER FENCE (THREE-RAIL) 104+80 LT TO STA. 107+15 LT

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
NONE

- NOTES:**
1. MATERIAL AND KINDS OF LATHING SHALL COMPLY WITH THE FOLLOWING TABLE:
 2. SEE TYPICAL SECTION FOR POSITION OF SHARED USE PATH. SHARED USE PATH SHALL BE LOCATED TO THE RIGHT OF THE TRAIL.
 3. ALL LATHING IS TO BE INSTALLED WITHIN 10' OF THE RAMP AREAS. IT SHALL BE ALLOWED TO BE LATHING WITH 10' OF RAMP FROM ALL.
 4. PRIOR TO ANY DRAINAGE, GRADING, OR TREE TRIMMING, THE CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL FROM THE TOWN ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL A 2" DIA. WALKWAY WITH 1" DIA. RAILS AND 2" DIA. RAILS TO THE TRAIL CENTERLINE. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWN ENGINEER TO VERIFY THESE DIMENSIONS.
 5. ALL WALKWAYS SHALL BE INSTALLED WITHIN 10' OF THE RAMP AREAS. IT SHALL BE ALLOWED TO BE LATHING WITH 10' OF RAMP FROM ALL.
 6. NO DRAINAGE OR TREE TRIMMING SHALL BE ALLOWED UNLESS THE CONTRACTOR HAS OBTAINED APPROVAL FROM THE TOWN ENGINEER. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWN ENGINEER TO VERIFY THESE DIMENSIONS.
 7. PROPOSED 10' PAVED SHARED USE PATH SHALL BE INSTALLED WITHIN 10' OF THE RAMP AREAS. IT SHALL BE ALLOWED TO BE LATHING WITH 10' OF RAMP FROM ALL.

LEGEND:
PROPOSED WHEELCHAIR RAMP DETAIL #
PLANT QUANTITY AND SPECIES

SUDBURY BRUCE FREEMAN RAIL TRAIL

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
MA	3000-XXXX-XXXXXX	16	319
PROJECT FILE NO. 608164			

CONSTRUCTION PLANS

Photo 1

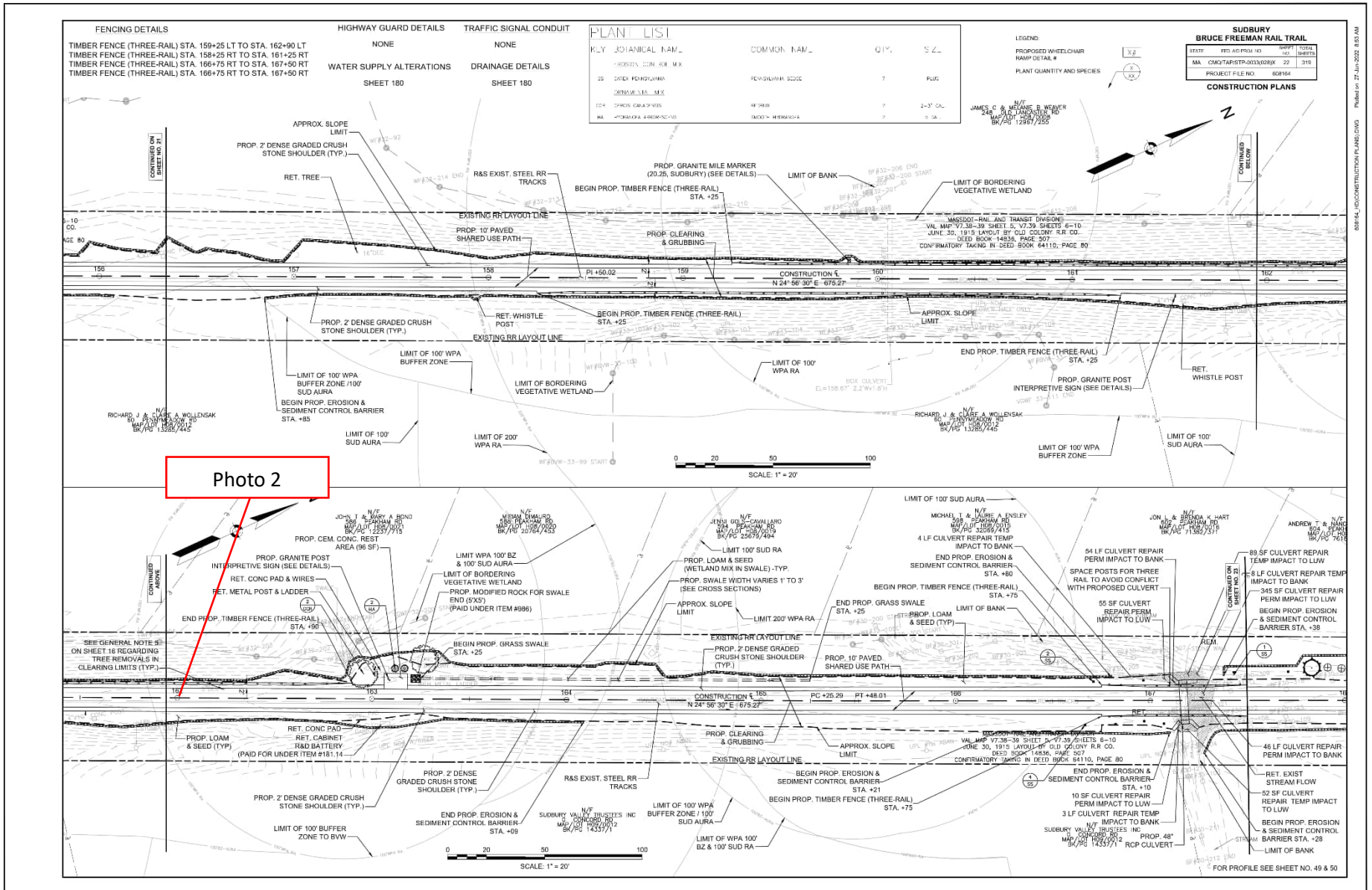
PROJECT SUMMARY PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
OR	ORNAMENTAL MIX			
CDK	CORNER DARKBERRY	CORNER DARKBERRY	13	4" x 1/2" GAL
ACB	AMERICAN BURNING BUSH	AMERICAN BURNING BUSH	15	3" GAL
IBK	IRIDIUM BURNING BUSH	IRIDIUM BURNING BUSH	15	3" GAL
FS	FIND STRIBUS	FIND STRIBUS	8	4" x 1/2" GAL
AC	ACER CONCOLOR	ACER CONCOLOR	15	4" x 1/2" GAL
ES	EROSION CONTROL MIX			
SS	SUNSHINE	SUNSHINE	30	1" GAL
CS	CORNER DARKBERRY & SUNSHINE	CORNER DARKBERRY & SUNSHINE	11	1" GAL

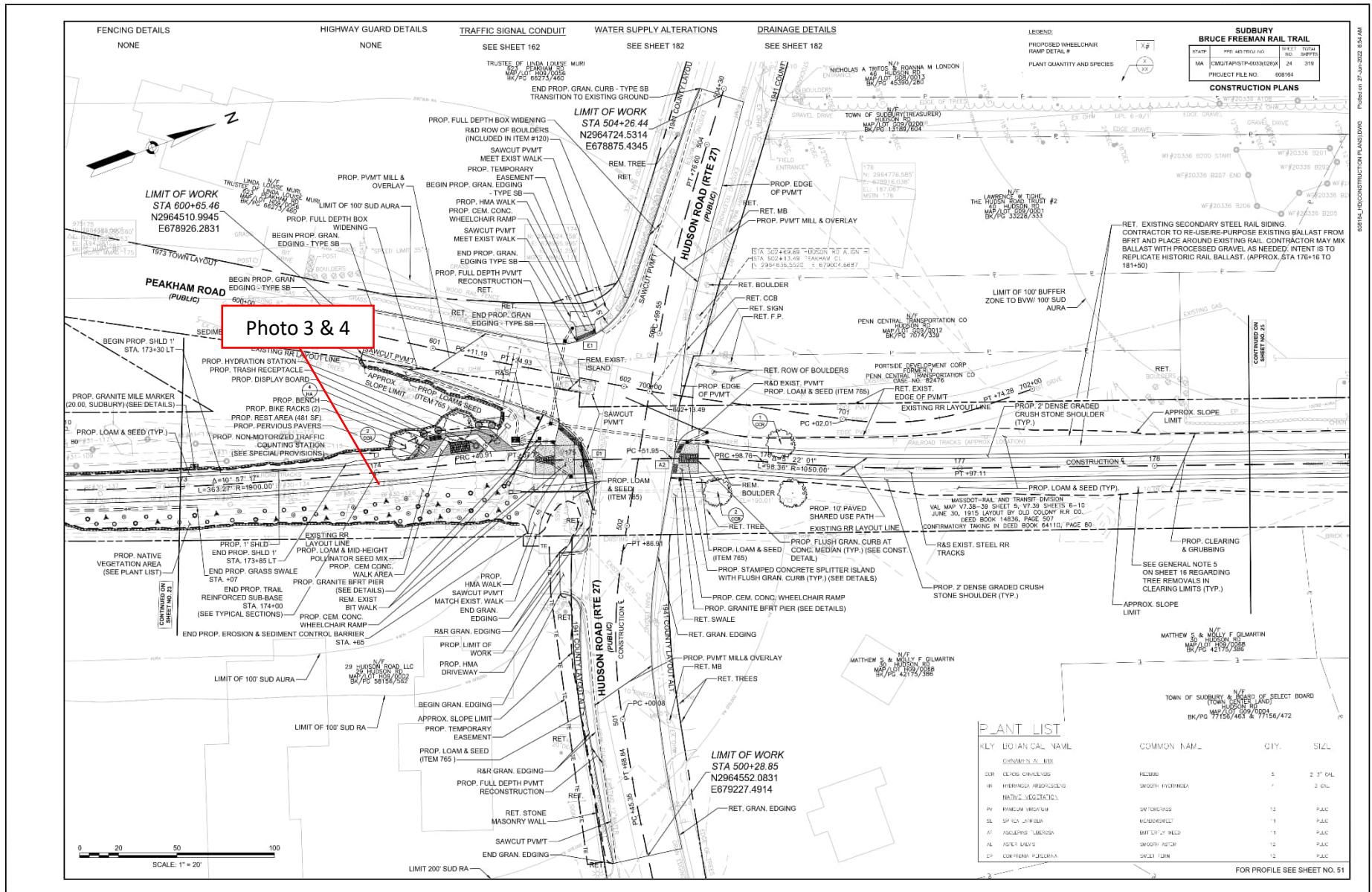
PROJECT SUMMARY PLAN LIST (continued)

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
OR	ORNAMENTAL MIX			
CDK	CORNER DARKBERRY	CORNER DARKBERRY	13	4" x 1/2" GAL
ACB	AMERICAN BURNING BUSH	AMERICAN BURNING BUSH	15	3" GAL
IBK	IRIDIUM BURNING BUSH	IRIDIUM BURNING BUSH	15	3" GAL
FS	FIND STRIBUS	FIND STRIBUS	8	4" x 1/2" GAL
AC	ACER CONCOLOR	ACER CONCOLOR	15	4" x 1/2" GAL
AS	ACER SACCATINUM	SUGAR MAPLE	1	2" x 3" GAL
TA	TEUKAMANA	AMERICAN JACOBIN	1	2" x 3" GAL
QR	QUERCUS RUBRA	NORTHERN RED OAK	3	2" x 3" GAL
QV	QUERCUS VARIETAL	RED OAK	2	2" x 3" GAL
STD	STD MIX			
100	100' WPA BUFFER ZONE		21,055 SQ. FT.	1 LB./2,500 SQ. FT.
100	100' WPA BUFFER ZONE		42,110 SQ. FT.	1 LB./2,500 SQ. FT.

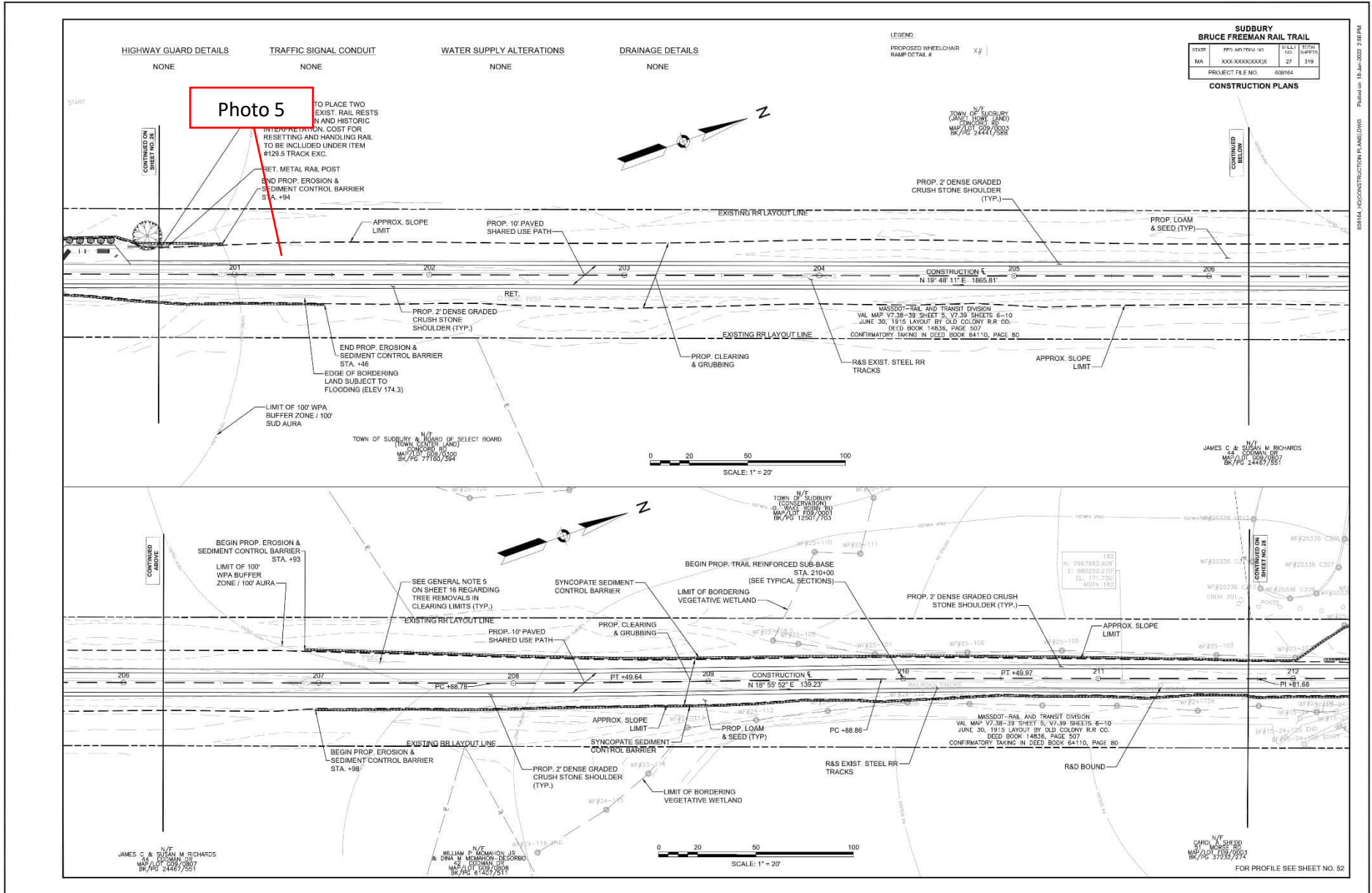
FOR PROFILE SEE SHEET NO. 48

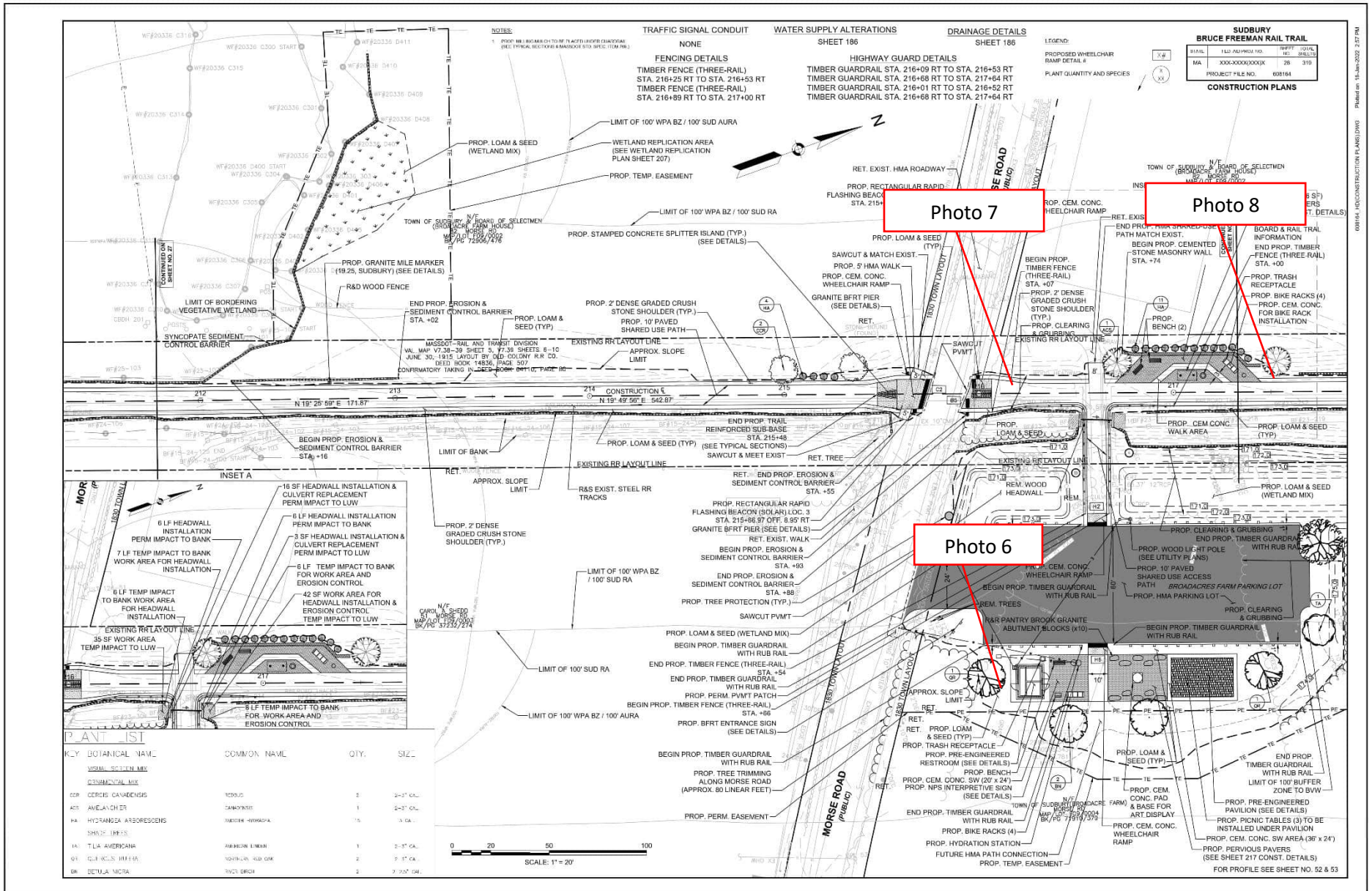


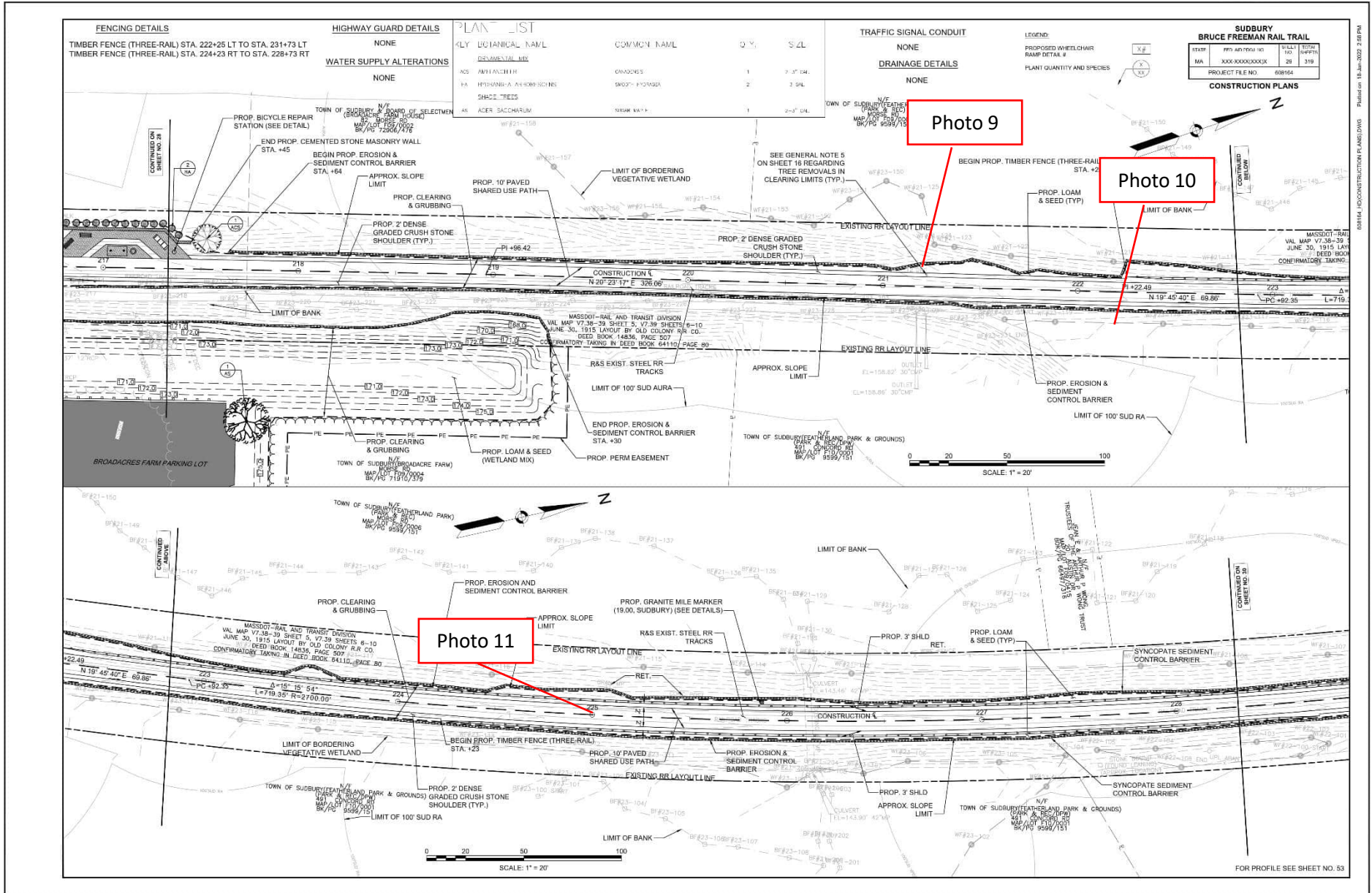
BETA PLANT CONSTRUCTION PLANS.DWG Published: 27-Jun-2022 10:53 AM

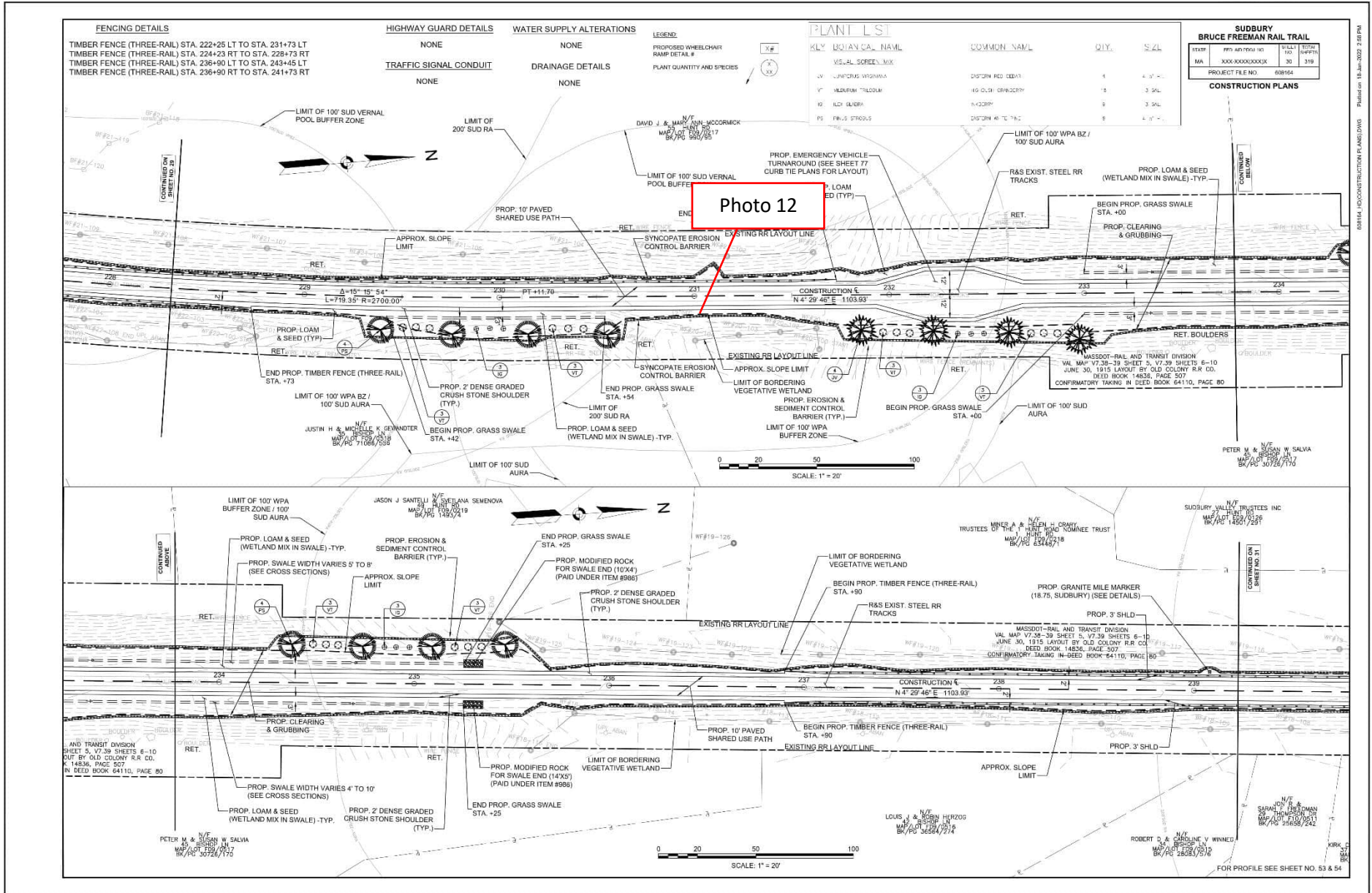


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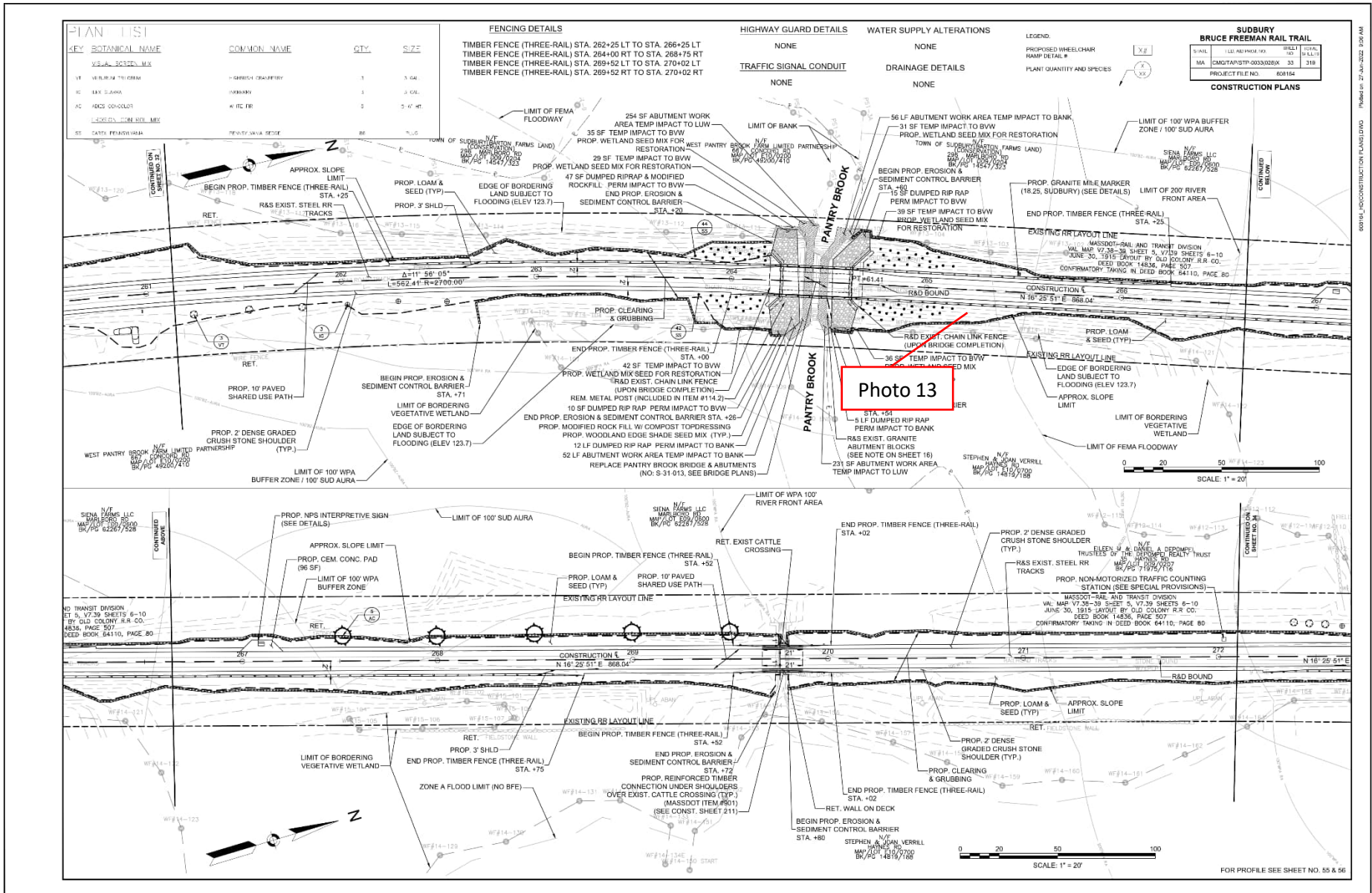


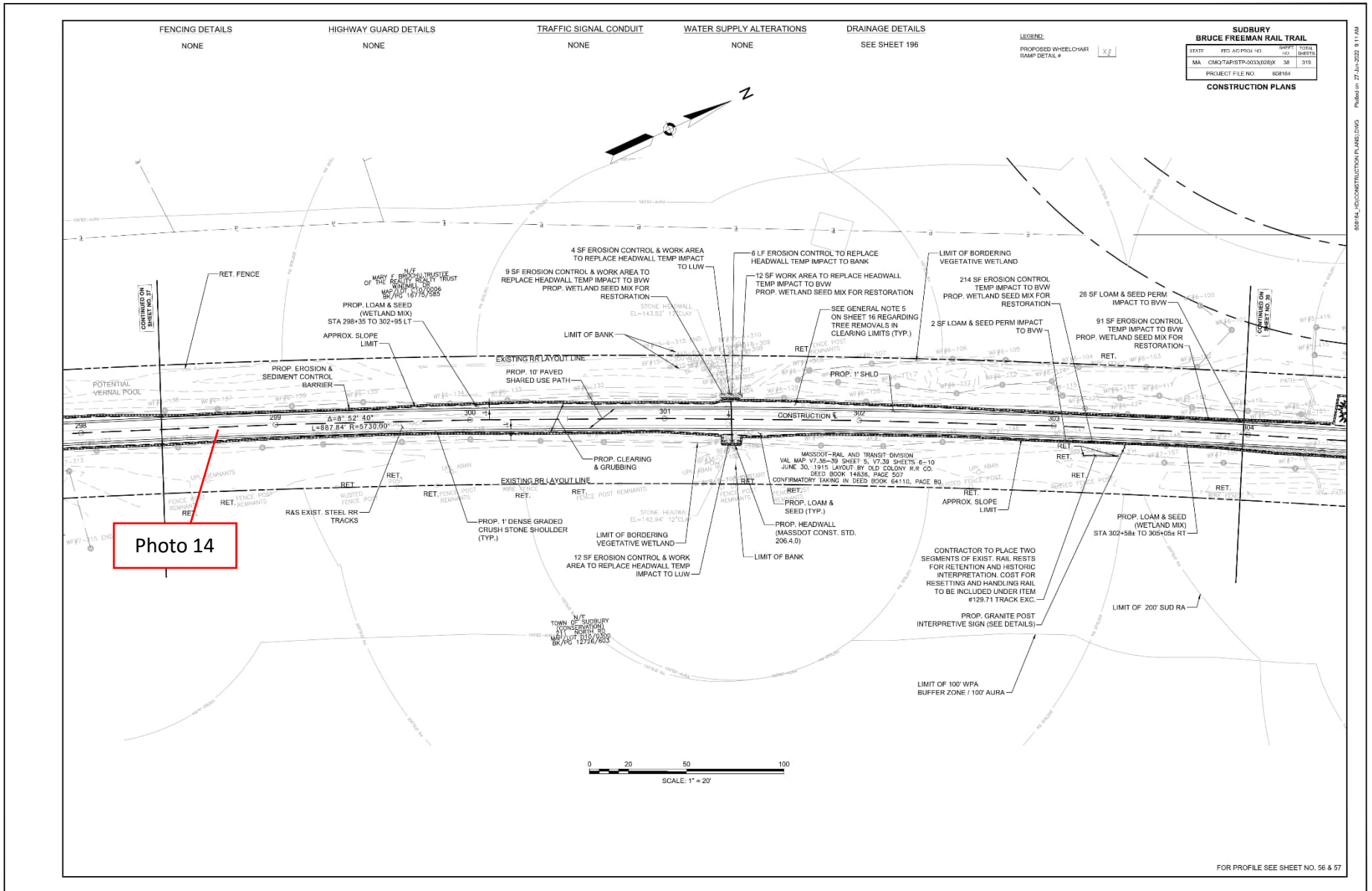


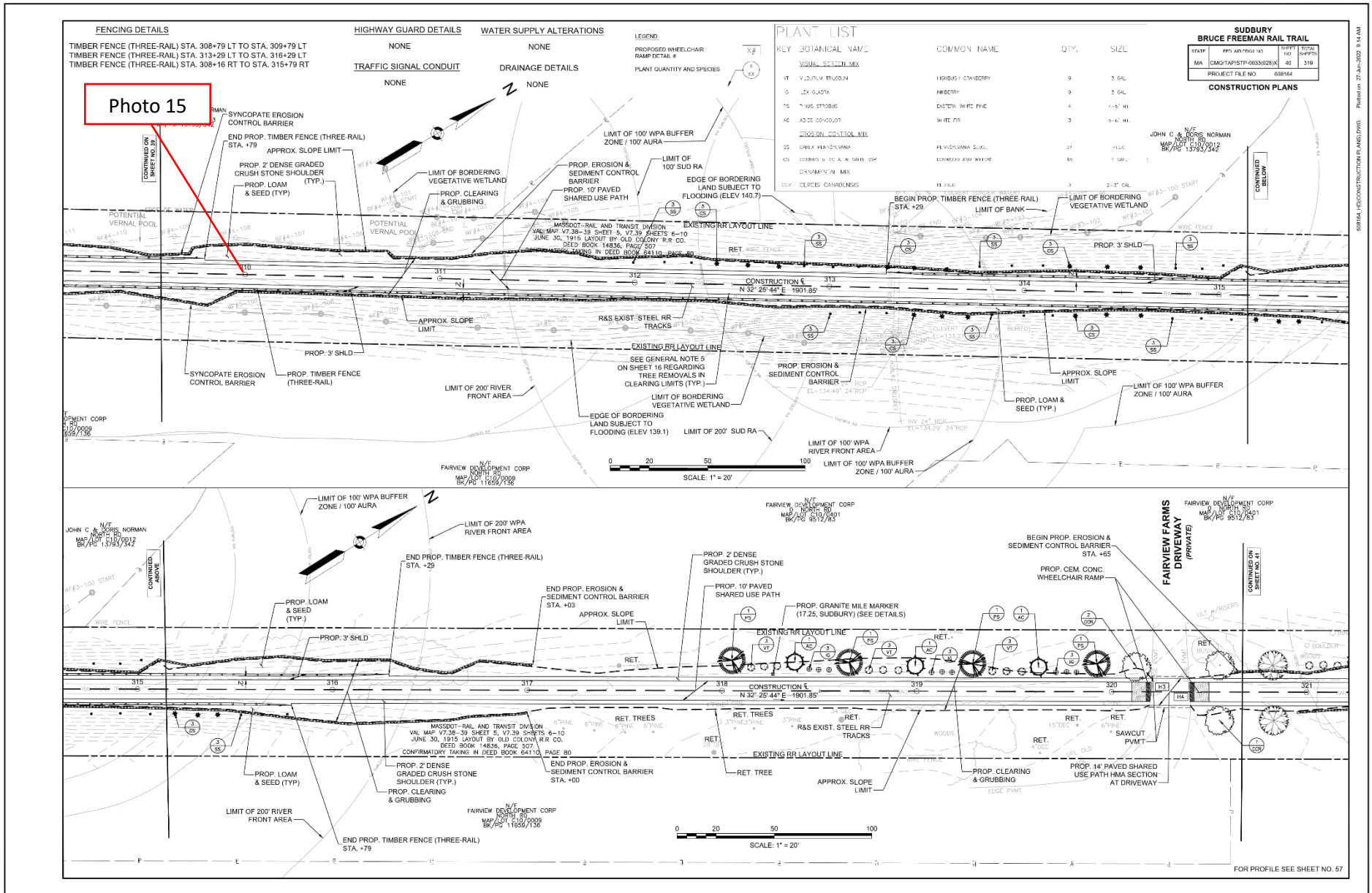


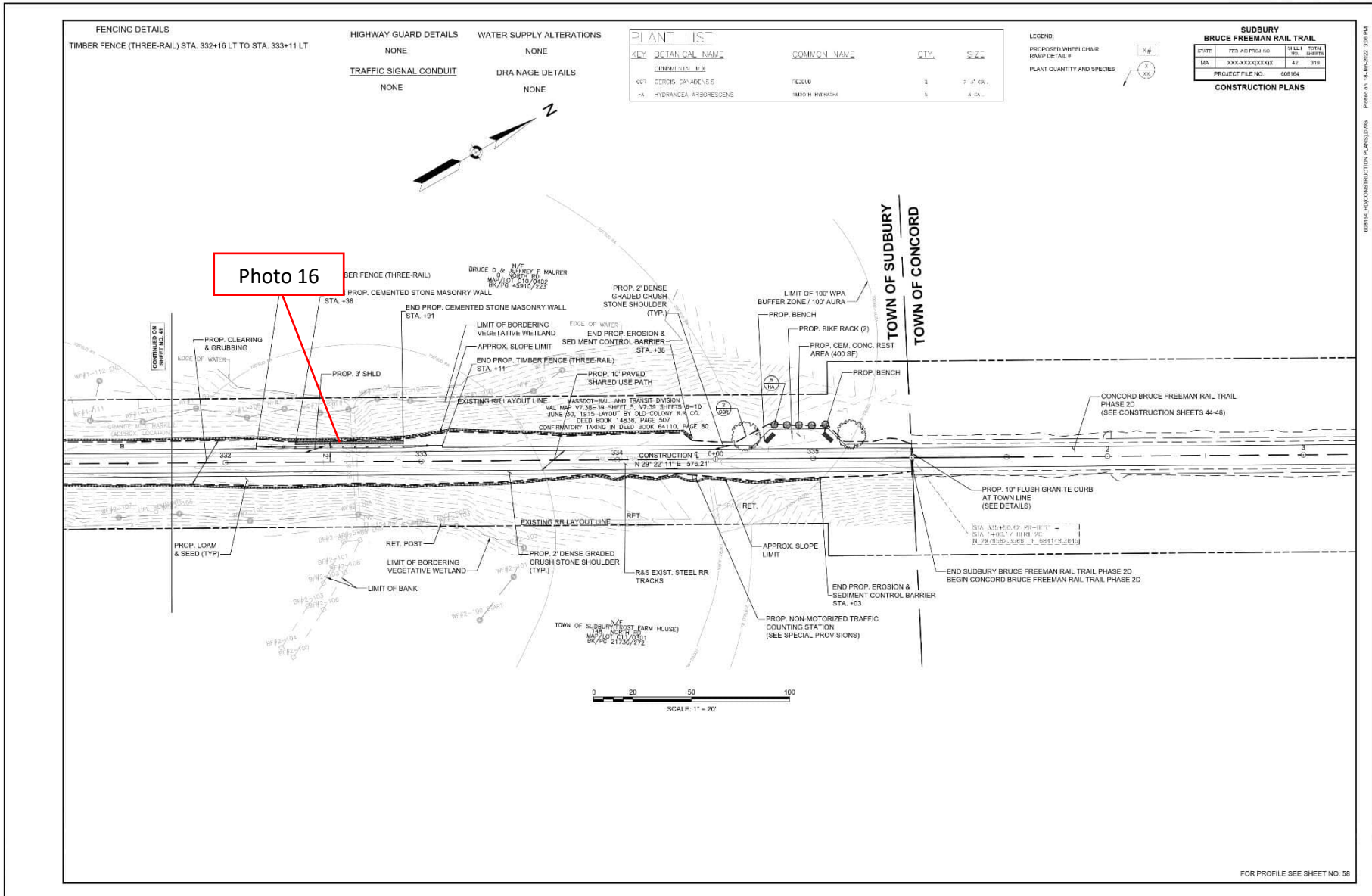


08/14/24 CONSTRUCTION PLANS.DWG | Printed on 14-Jun-2024 2:58 PM









Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 1	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of slopes requiring stabilization and overtopped compost filter tubes at Station 105+00 to 106+00 per Compliance Action Items 43 and 44.		

Photo No. 2	Date: 6/14/2024	
Direction Photo Taken: Toward the South		
Description: View of the location where stabilization and sediment removal is required near Station 162+00 per Compliance Action Item 3.		

Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 3 **Date:**
6/14/2024

Direction Photo Taken:

Toward the East

Description:

View of active construction and exposed soils near Station 174+00 per Compliance Action Item 6.



Photo No. 4 **Date:**
6/14/2024



Direction Photo Taken:

Toward the East

Description:

Another view of active construction and exposed soils near Station 174+00 per Compliance Action Item 6.



Site Location Bruce Freeman Rail Trail Right-of-Way		BETA Project No. 24.10326.23
Photo No. 5	Date: 6/14/2024	
Direction Photo Taken: Toward the Northwest		
Description: View of typical rill erosion and sediment runoff along the west side of the trail from Station 201+00 through 204+00 per Compliance Action Item 13.		
Photo No. 6	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of improperly disposed of concrete pile in parking lot next to rest stop near Station 216+00 per Compliance Action Item 48.		

Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 7 **Date:**
6/14/2024

Direction Photo Taken:

Toward the Southeast

Description:

View of grading of the stream Bank beyond the limits of work at Station 216+00 per Compliance Action Item 41.



Photo No. 8 **Date:**
6/14/2024

Direction Photo Taken:

Toward the East

Description:



View of exposed soils along a newly constructed masonry wall that require stabilization at Station 217+45 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. 9	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of washout overtopping compost filter tubes at Station 221+50 per Compliance Action Item 15.		

Photo No. 10	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of soil and organic debris placed within the wetland between flags WF#23-119 and WF#23-118 at Station 224+00 per Compliance Action Item 32.		

Site Location Bruce Freeman Rail Trail Right-of-Way		BETA Project No. 24.10326.23
Photo No. 11	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of erosion observed along east side of trail at Station 225+50 per Compliance Action Item 45.		
Photo No. 12	Date: 6/14/2024	
Direction Photo Taken: Toward the East		
Description: View of washout overtopping compost filter tubes at Station 231+00 per Compliance Action Item 16.		

Site Location	Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 13	Date: 6/14/2024	
Direction Photo Taken: Toward the East		
Description: View of slopes requiring stabilization near Station 265+50 per Compliance Action Item 47.		

Photo No. 14	Date: 6/14/2024	
Direction Photo Taken: Toward the East		
Description: View of an area at Station 299+00 where gravel should be removed from the wetland and seed should be applied per Compliance Action Item 26.		

Site Location	Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 15	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of the location where erosion controls were observed to have been covered with sediment at Station 310+00 per Compliance Action Item 46.		

Photo No. 16	Date: 6/14/2024	
Direction Photo Taken: Toward the West		
Description: View of rip rap slope that appears to extend beyond the limits of work between Stations 312+00 and 313+00 per Compliance Action Item 42.		