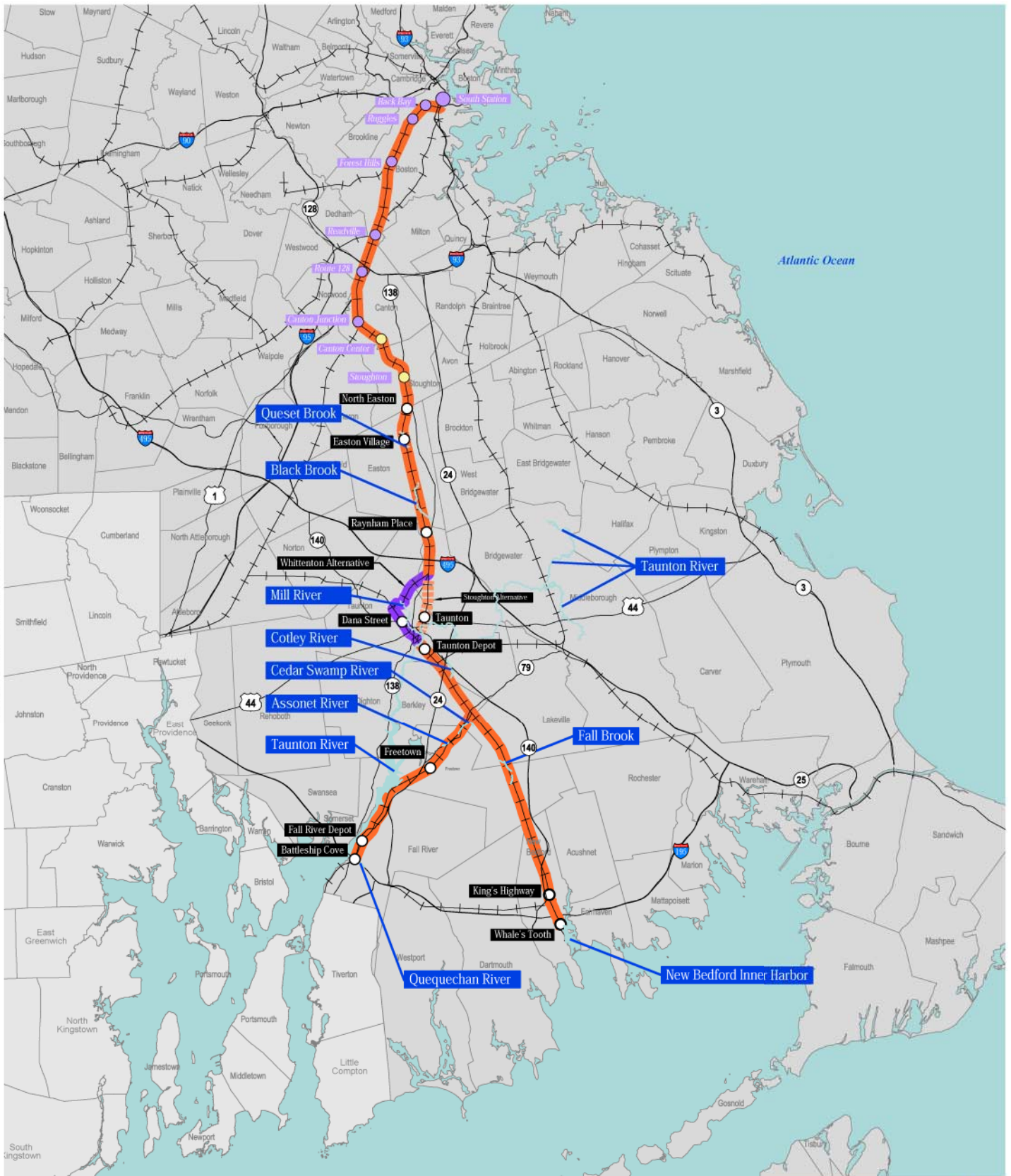


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Legend



Whittenton Alternative



Existing Stations



Proposed Stations



Existing Stations to be Reconstructed



Figure 4.17-1

Major Water Bodies



Printing Date: 6/18/2009
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- Legend**
- MBTA Commuter Rail Station
 - MBTA Commuter Rail
 - Town Boundaries
 - Proposed Alternative Alignments
 - ▭ Limit of Work for Proposed Station/Layover Facility
 - ▭ Limit of Permanent Impact for Proposed Rail
 - ▭ Traction Power Station*
 - Open Water
 - Public Water Supply Well
 - Zone I (400ft buffer of Public Water Supplies)
 - Zone II DEP Wellhead Protection Areas
 - IWPA DEP Wellhead Protection Areas
 - Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

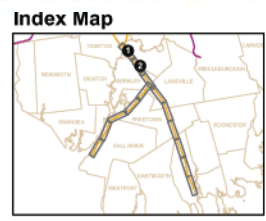


Figure 4.17-2a
 All Rail Alternatives
 New Bedford Main Line (Sheet 1 of 5)



Printing Date: 6/17/2009
 The information on this map was prepared by the Massachusetts Department of Transportation (MassDOT) and is for informational purposes only.

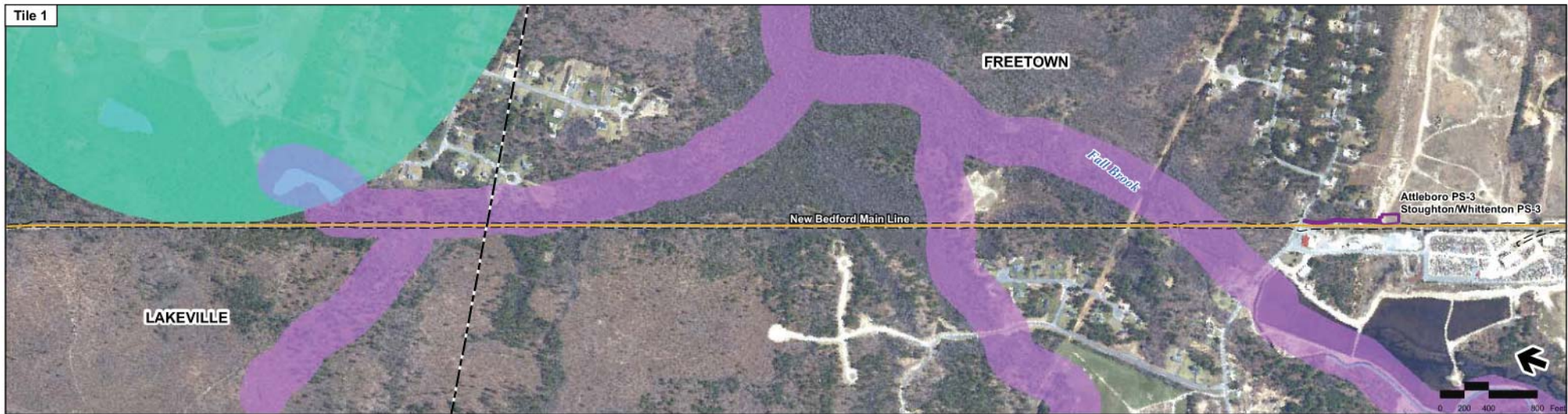
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 - MBTA Commuter Rail
 - Town Boundaries
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 - Limit of Permanent Impact for Proposed Rail
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 - Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map



Figure 4.17-2b
 All Rail Alternatives
 New Bedford Main Line (Sheet 2 of 5)



Printing Date: 6/17/2009
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- Legend**
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 - MBTA Commuter Rail
 - - - Town Boundaries
 - Proposed Alternative Alignments
 - ▭ Limit of Work for Proposed Station/Layover Facility
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* Traction power stations are only required for electric rail alternative

Index Map



Figure 4.17-2c
 All Rail Alternatives
 New Bedford Main Line (Sheet 3 of 5)



- Legend**
- MBTA Commuter Rail Station
 - MBTA Commuter Rail
 - Town Boundaries
 - Proposed Alternative Alignments
 - ▭ Limit of Work for Proposed Station/Layover Facility
 - ▭ Limit of Permanent Impact for Proposed Rail
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 - Zone II DEP Wellhead Protection Areas
 - IWPA DEP Wellhead Protection Areas
 - Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

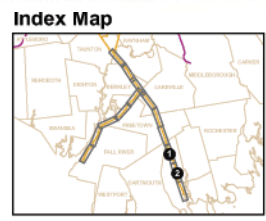


Figure 4.17-2d
 All Rail Alternatives
 New Bedford Main Line (Sheet 4 of 5)



Printing Date: 6/17/2009
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Legend

- MBTA Commuter Rail Station
- MBTA Commuter Rail
- Town Boundaries
- Proposed Alternative Alignments
- Limit of Work for Proposed Station/Layover Facility
- Limit of Permanent Impact for Proposed Rail
- Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map



Figure 4.17-2e
All Rail Alternatives
New Bedford Main Line (Sheet 5 of 5)



- Legend**
- MBTA Commuter Rail Station
 - Proposed Alternative Alignments
 - Open Water
 - Zone I (400ft buffer of Public Water Supplies)
 - MBTA Commuter Rail
 - ▭ Limit of Work for Proposed Station/Layover Facility
 - Public Water Supply Well
 - Zone II DEP Wellhead Protection Areas
 - - - Town Boundaries
 - ▭ Limit of Permanent Impact for Proposed Rail
 - IWPA DEP Wellhead Protection Areas
 - ▭ Traction Power Station*
 - Zone A Surface Water Supply Protection Areas

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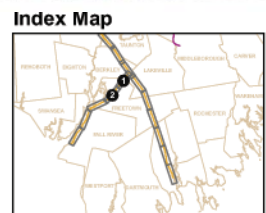


Figure 4.17-3a

All Rail Alternatives

Fall River Secondary (Sheet 1 of 3)



Printing Date: 8/16/2019
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| — MBTA Commuter Rail | ○ Limit of Work for Proposed Station/Layover Facility | ● Public Water Supply Well | ■ Zone II DEP Wellhead Protection Areas |
| --- Town Boundaries | □ Limit of Permanent Impact for Proposed Rail | | ■ IWPA DEP Wellhead Protection Areas |
| | □ Traction Power Station* | | ■ Zone A Surface Water Supply Protection Areas |

* Traction power stations are only required for electric rail alternative

Index Map



Figure 4.17-3b

All Rail Alternatives

Fall River Secondary (Sheet 2 of 3)



Drawing Date: 6/16/2020
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- MBTA Commuter Rail Station
- MBTA Commuter Rail
- - - Town Boundaries
- Proposed Alternative Alignments
- ▭ Limit of Work for Proposed Station/Layer Facility
- ▭ Limit of Permanent Impact for Proposed Rail
- ▭ Traction Power Station*
- Open Water
- Public Water Supply Well
- Zone I (400ft buffer of Public Water Supplies)
- Zone II DEP Wellhead Protection Areas
- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

* Traction power stations are only required for electric rail alternative

Index Map



Figure 4.17-3c
All Rail Alternatives
Fall River Secondary (Sheet 3 of 3)



Printing Date: 6/17/2009
 The information on this map was prepared by the Massachusetts Department of Transportation (MassDOT) on 6/17/2009.

- Legend**
- MBTA Commuter Rail Station
 - Proposed Alternative Alignments
 - MBTA Commuter Rail
 - - - Town Boundaries
 - Limit of Work for Proposed Station/Layover Facility
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 - Zone I (400ft buffer of Public Water Supplies)
 - Zone II DEP Wellhead Protection Areas
 - IWPA DEP Wellhead Protection Areas
 - Zone A Surface Water Supply Protection Areas

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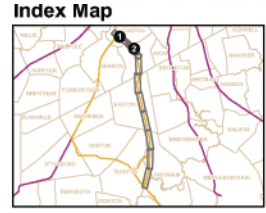
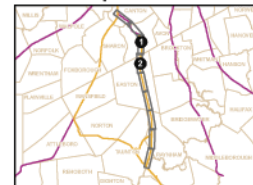


Figure 4.17-4a
 Stoughton Alternative
 Stoughton Line (Sheet 1 of 5)



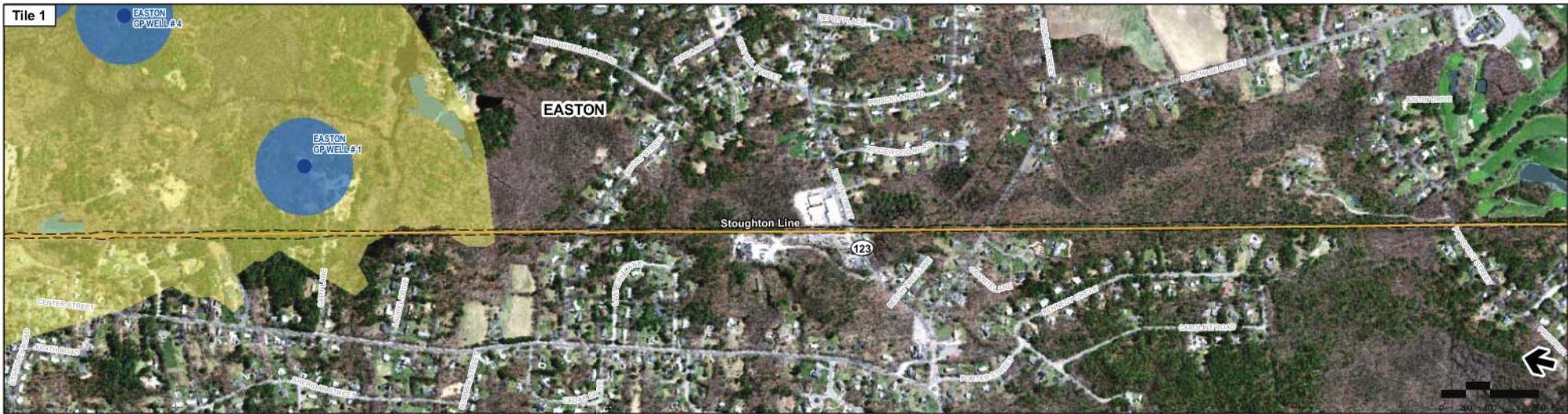
- Legend**
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 - Proposed Alternative Alignments
 - Open Water
 - Zone I (400ft buffer of Public Water Supplies)
 - Limit of Work for Proposed Station/Layover Facility
 - Zone II DEP Wellhead Protection Areas
 - IWPA DEP Wellhead Protection Areas
 - Town Boundaries
 - Limit of Permanent Impact for Proposed Rail
 - Public Water Supply Well
 - Zone A Surface Water Supply Protection Areas
 - Traction Power Station*

Index Map



* Traction power stations are only required for electric rail alternative

Figure 4.17-4b
 Stoughton Alternative
 Stoughton Line (Sheet 2 of 5)



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- | | | | |
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| — MBTA Commuter Rail | ▭ Limit of Work for Proposed Station/Layover Facility | ● Public Water Supply Well | ■ Zone II DEP Wellhead Protection Areas |
| --- Town Boundaries | ▭ Limit of Permanent Impact for Proposed Rail | | ■ IWPA DEP Wellhead Protection Areas |
| | ▭ Traction Power Station* | | ■ Zone A Surface Water Supply Protection Areas |

* Traction power stations are only required for electric rail alternative

Index Map

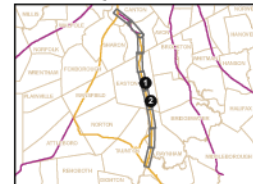
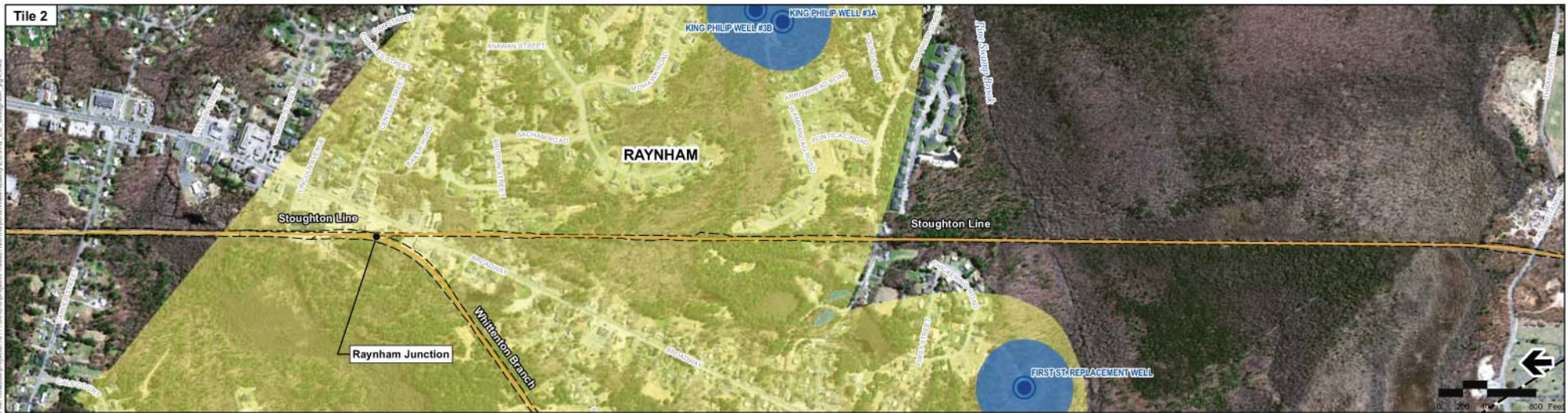


Figure 4.17-4c
Stoughton Alternative
Stoughton Line (Sheet 3 of 5)



Legend

MBTA Commuter Rail Station	Proposed Alternative Alignments	Open Water	Zone I (400ft buffer of Public Water Supplies)
MBTA Commuter Rail	Limit of Work for Proposed Station/Layover Facility	Public Water Supply Well	Zone II DEP Wellhead Protection Areas
Town Boundaries	Limit of Permanent Impact for Proposed Rail		IWPA DEP Wellhead Protection Areas
	Traction Power Station*		Zone A Surface Water Supply Protection Areas

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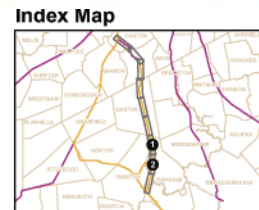


Figure 4.17-4d

Stoughton Alternative

Stoughton Line (Sheet 4 of 5)



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- MBTA Commuter Rail Station
- MBTA Commuter Rail
- - - Town Boundaries
- Proposed Alternative Alignments
- ▭ Limit of Work for Proposed Station/Layover Facility
- ▭ Limit of Permanent Impact for Proposed Rail
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- IWPA DEP Wellhead Protection Areas
- Zone A Surface Water Supply Protection Areas

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Index Map

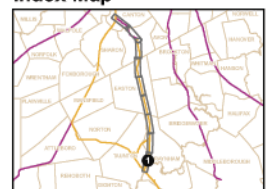
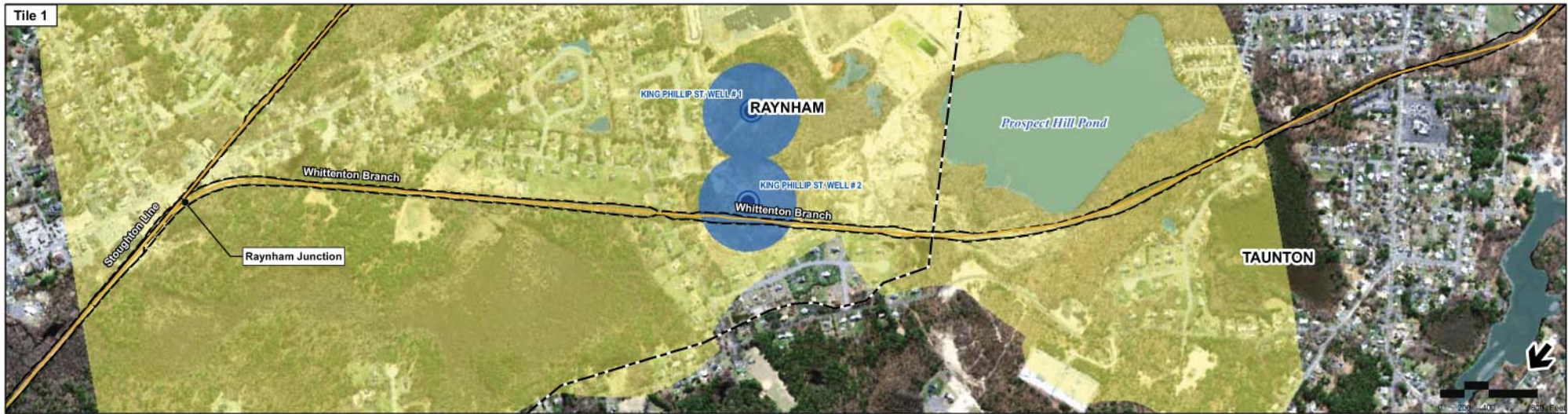


Figure 4.17-4e
Stoughton Alternative
Stoughton Line (Sheet 5 of 5)



- Legend**
- MBTA Commuter Rail Station
 - MBTA Commuter Rail
 - - - Town Boundaries
 - Proposed Alternative Alignments
 - ▭ Limit of Work for Proposed Station/Layover Facility
 - ▭ Limit of Permanent Impact for Proposed Rail
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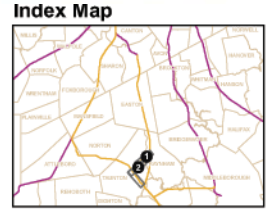
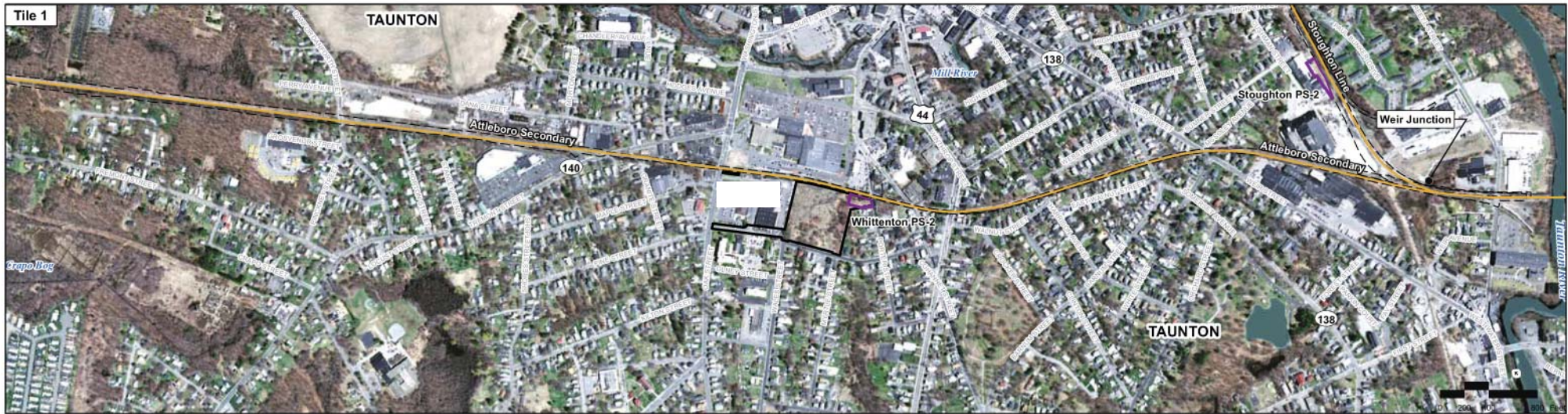


Figure 4.17-5a
 Whittenton Alternative
 Whittenton Branch (Sheet 1 of 2)



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- Legend**
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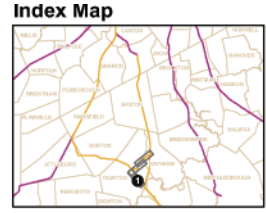


Figure 4.17-5b
 Whittenton Alternative
 Whittenton Branch (Sheet 2 of 2)

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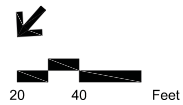
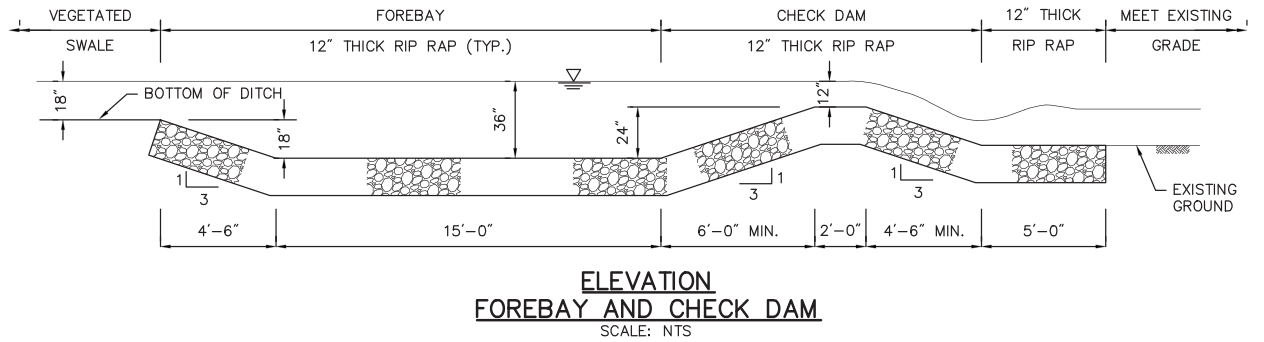
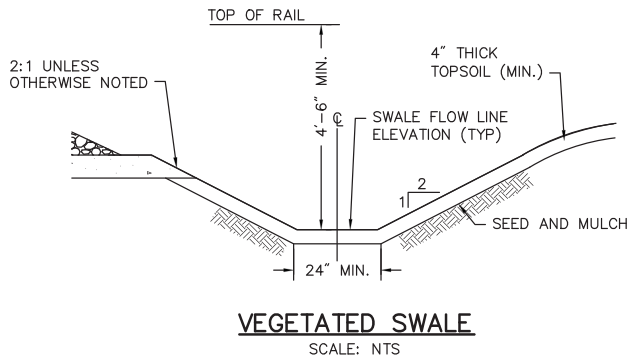
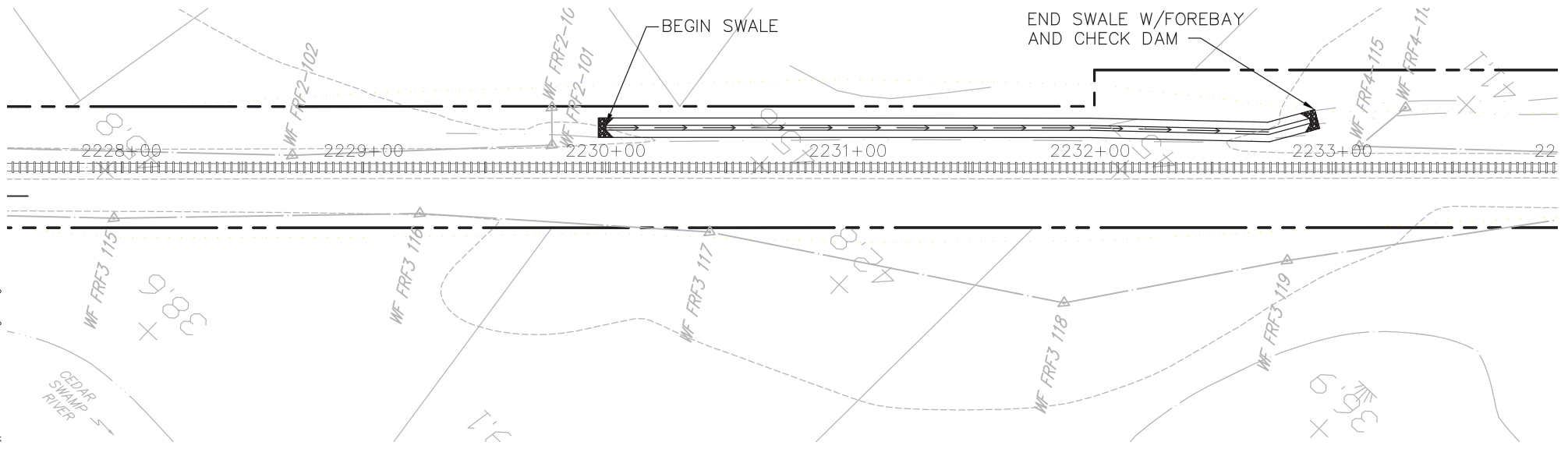
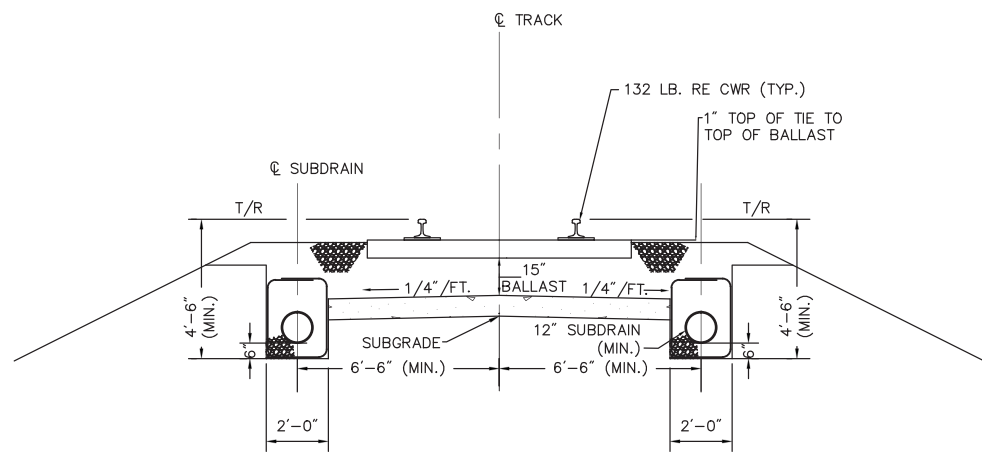
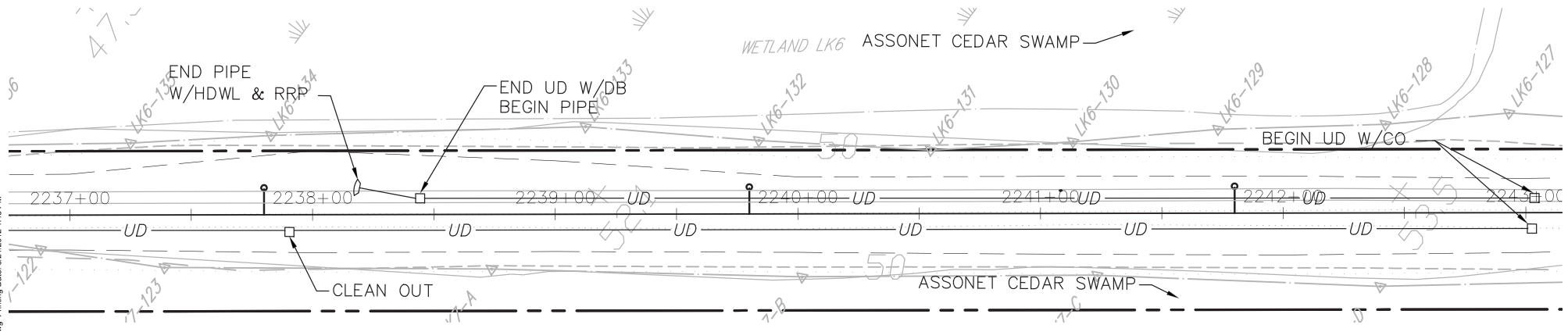


Figure 4.17-6
Typical Stormwater Treatment
Vegetated Swale with Forebay
Discharging to Stream

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TYPICAL SECTION FOR SINGLE TRACK WITH UNDERDRAINS

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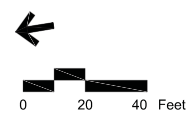
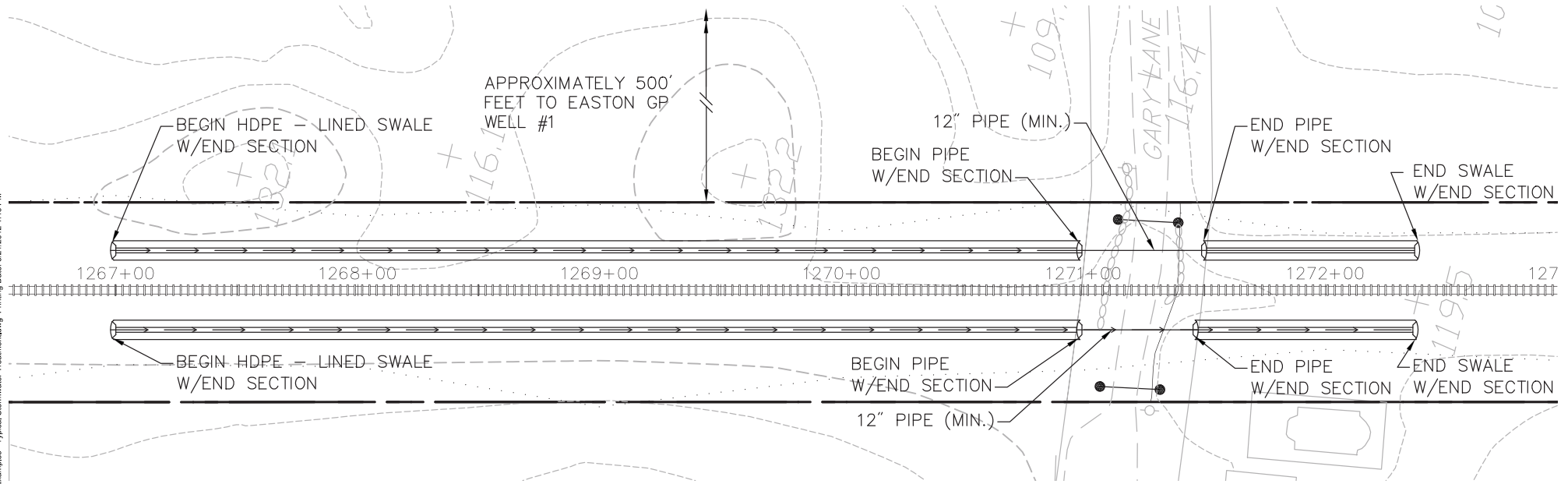
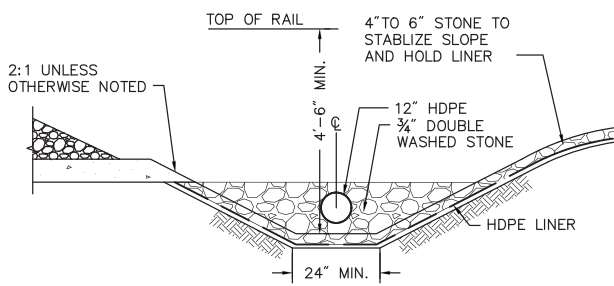


Figure 4.17-7
Typical Stormwater Treatment
Underdrain With Cleanouts Near Critical Wetland Resources

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APPROXIMATELY 500' FEET TO EASTON GP WELL #1



HDPE - LINED SWALE
SCALE: NTS

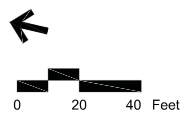
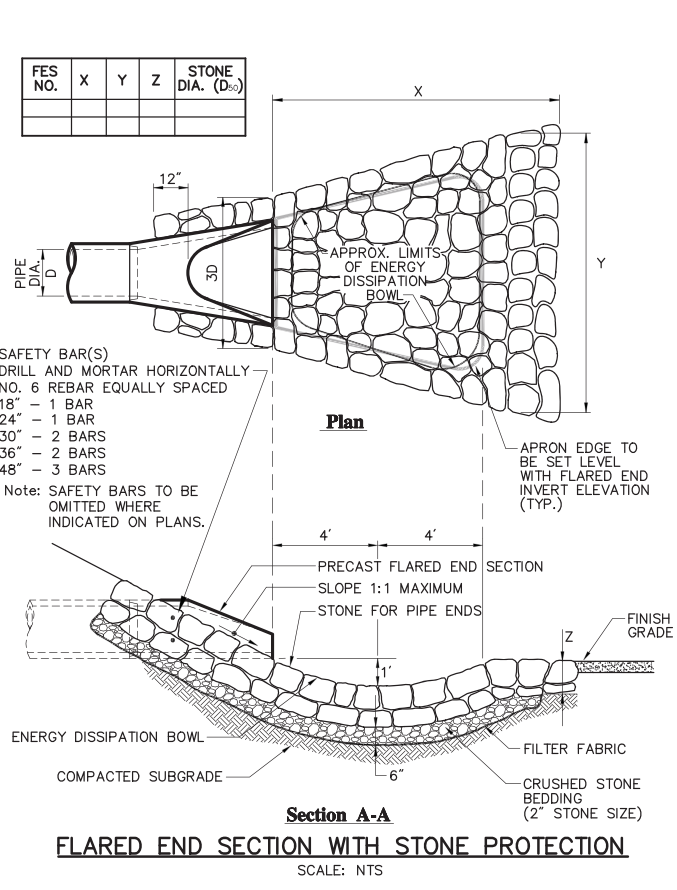


Figure 4.17-8
Typical Stormwater Treatment
HDPE - Lined Swale Near Vernal Pool or Zone 1



SAFETY BAR(S)
 DRILL AND MORTAR HORIZONTALLY
 NO. 6 REBAR EQUALLY SPACED
 18" - 1 BAR
 24" - 1 BAR
 30" - 2 BARS
 36" - 2 BARS
 48" - 3 BARS
 Note: SAFETY BARS TO BE OMITTED WHERE INDICATED ON PLANS.

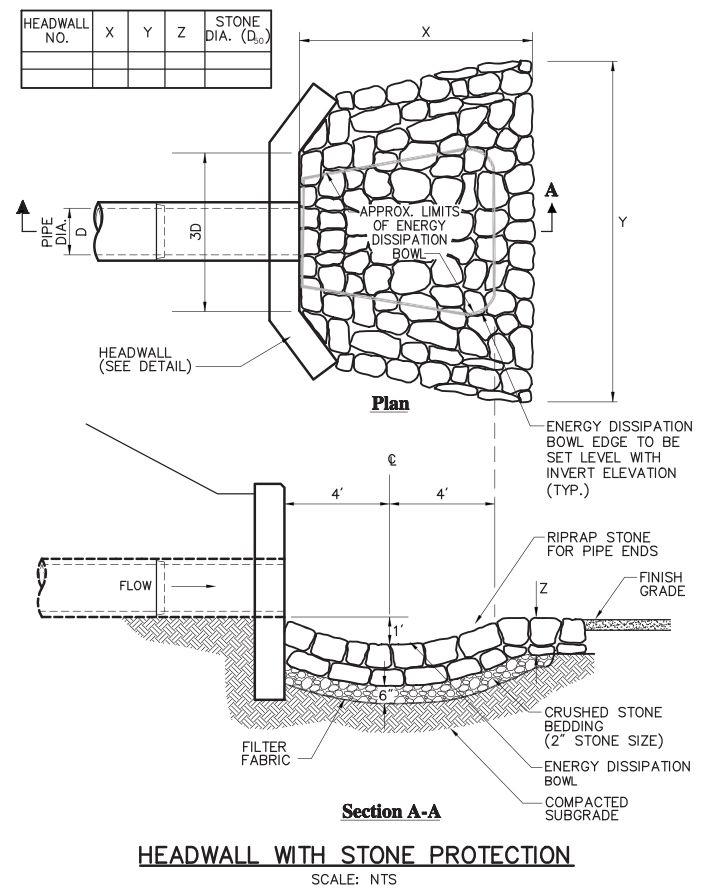


Figure 4.17-9
Typical Stormwater Treatment
Headwall and Flared End Section Details

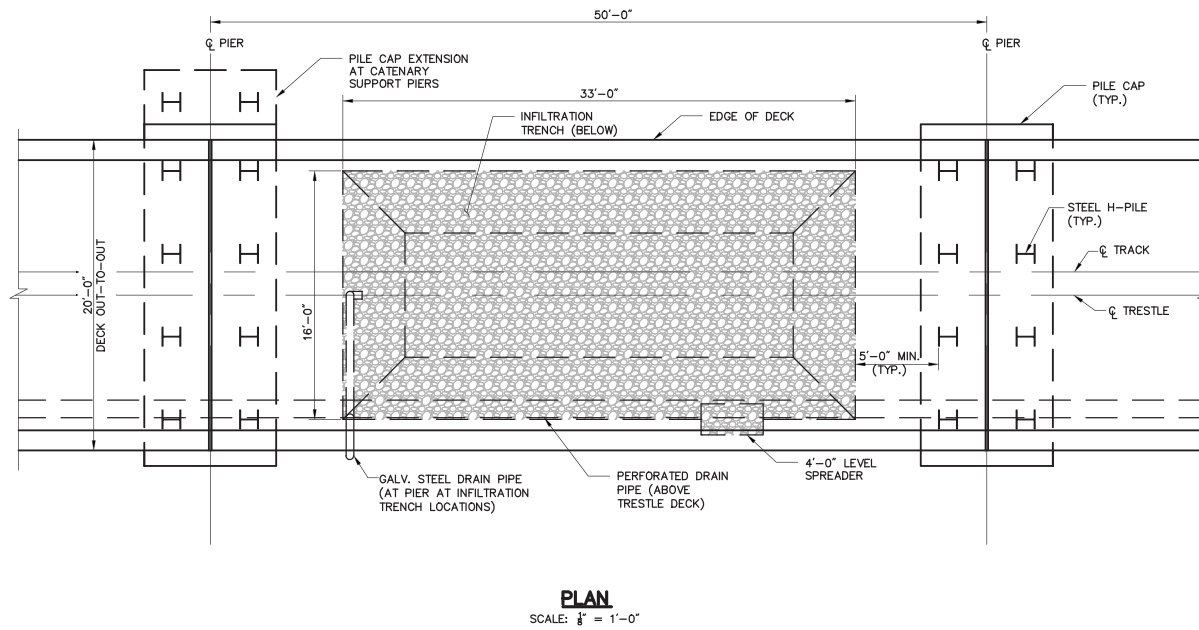


Figure 4.17-10
Trestle Through Hockomock Swamp
Typical Plan

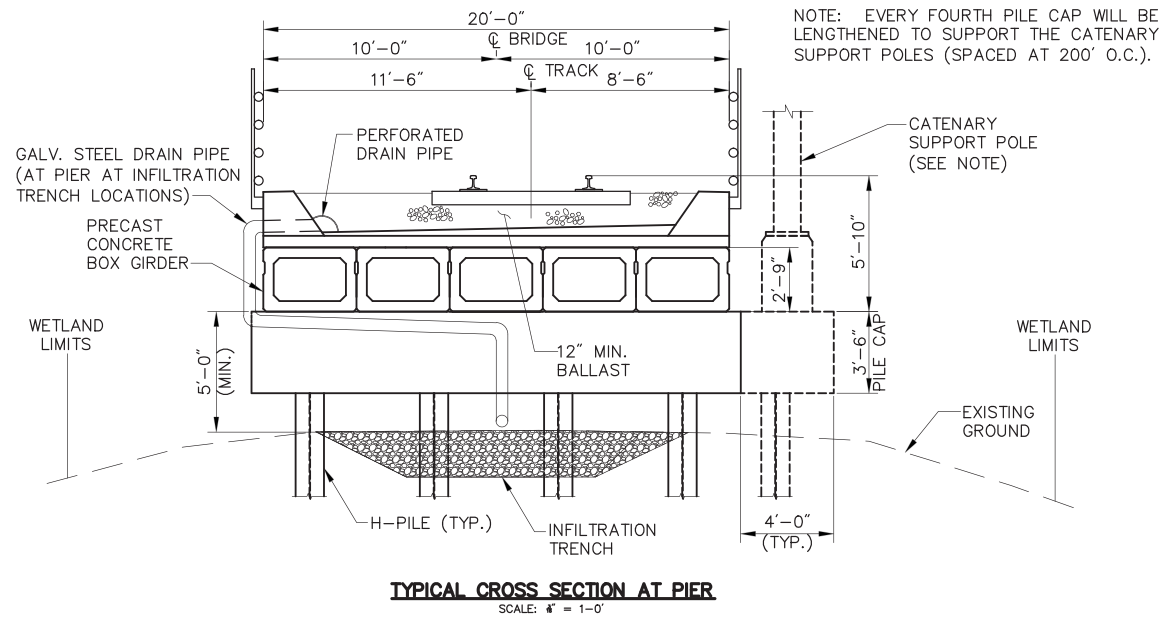


Figure 4.17-11
Trestle Through Hockomock Swamp
Typical Section

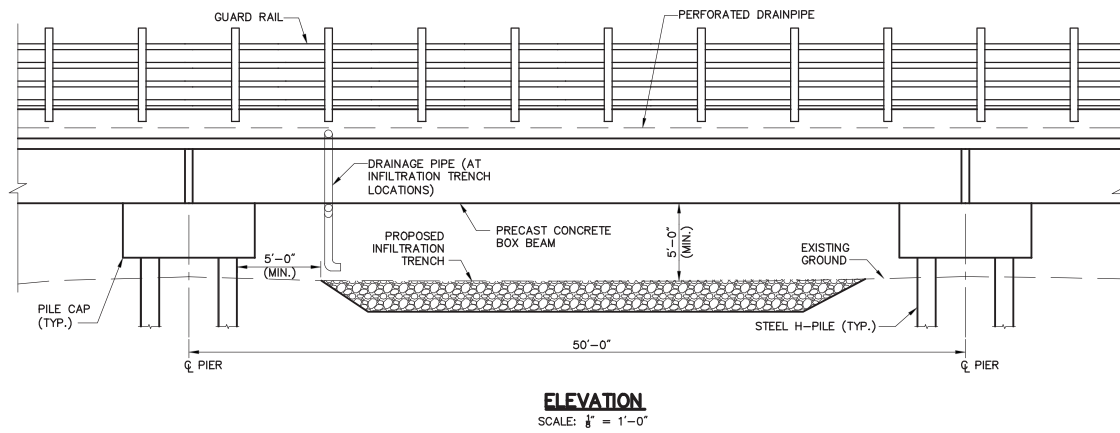
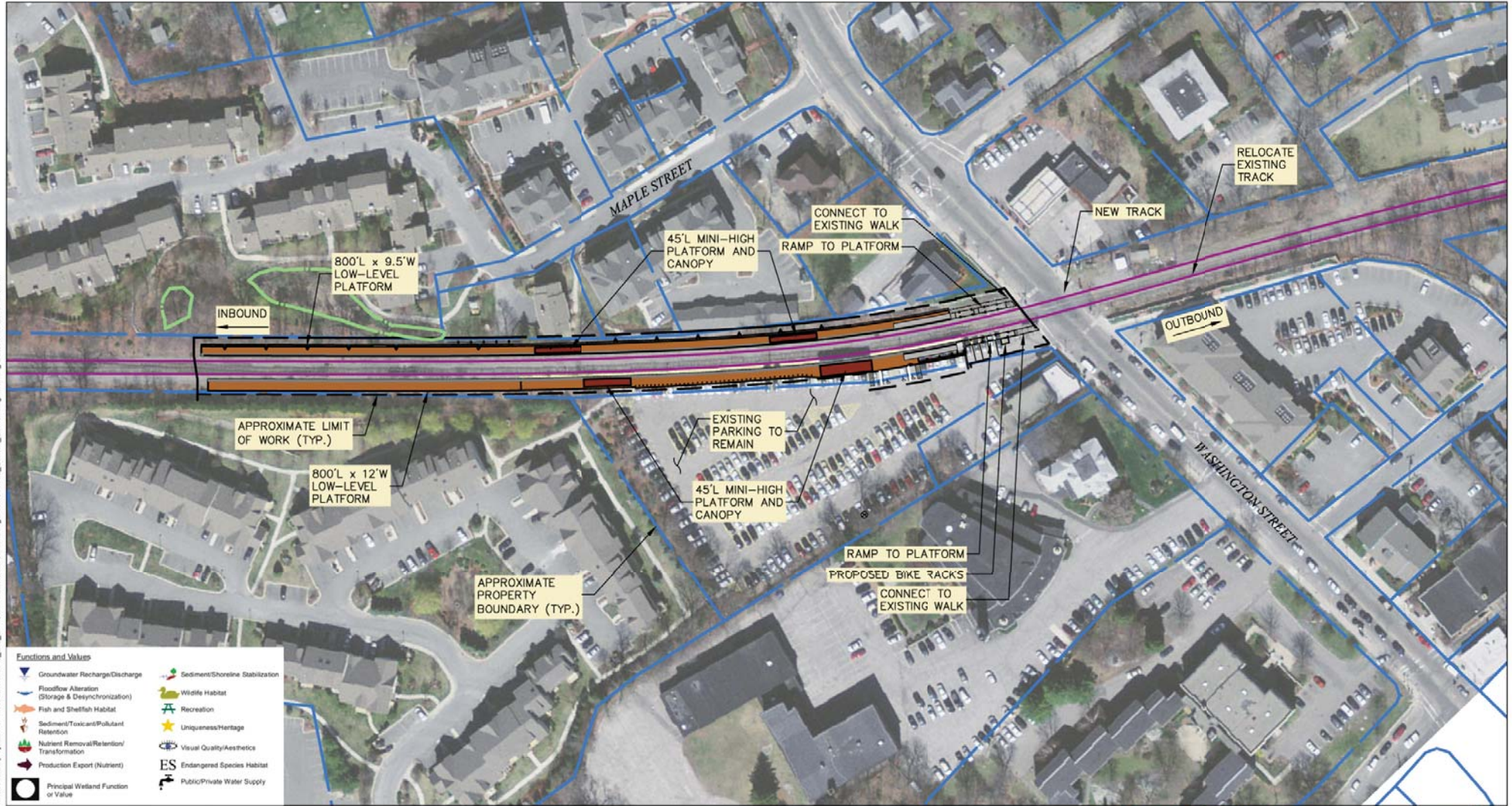


Figure 4.17-12
Trestle Through Hockomock
Typical Elevation

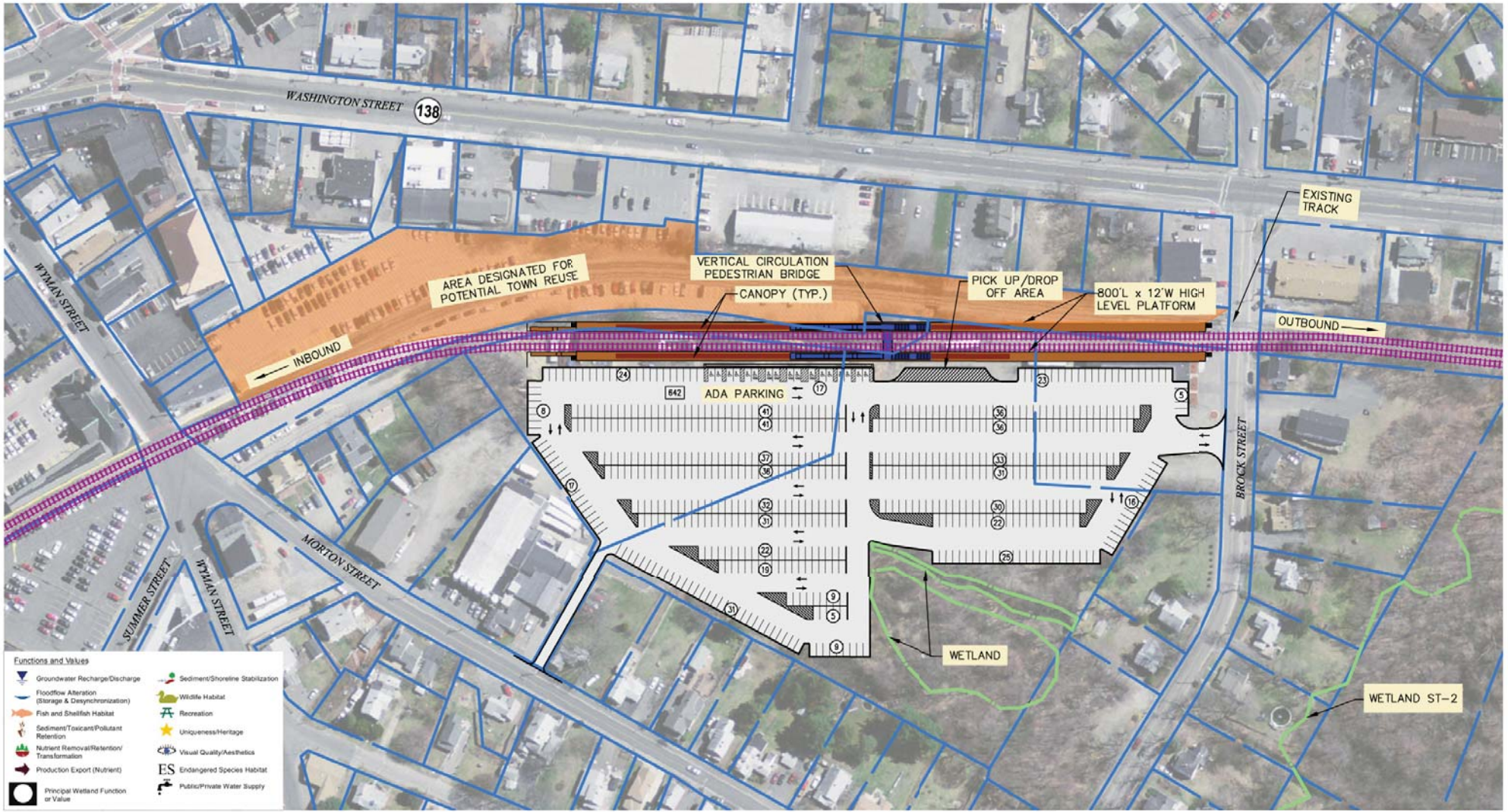
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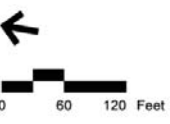
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	Canopy		Stormwater Management Area
	Transitional Plaza		Limit of Work
	Proposed Track		Wetlands
			Impacted Wetlands

Figure 4.17-13
 Canton Center Station
 Conceptual Station Design

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Functions and Values	
	Groundwater Recharge/Discharge
	Floodflow Alteration (Storage & Desynchronization)
	Fish and Shellfish Habitat
	Sediment/Toxicant/Pollutant Retention
	Nutrient Removal/Retention/Transformation
	Production Export (Nutrient)
	Principal Wetland Function or Value
	Sediment/Shoreline Stabilization
	Wildlife Habitat
	Recreation
	Uniqueness/Heritage
	Visual Quality/Aesthetics
	Endangered Species Habitat
	Public/Private Water Supply



Legend			
	Platform		Property
	Canopy		Stormwater Management Area
	Transitional Plaza		Limit of Work
	Proposed Track		Wetlands
			Impacted Wetlands

Figure 4.17-14
Stoughton Station
Conceptual Station Design

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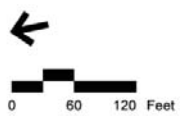
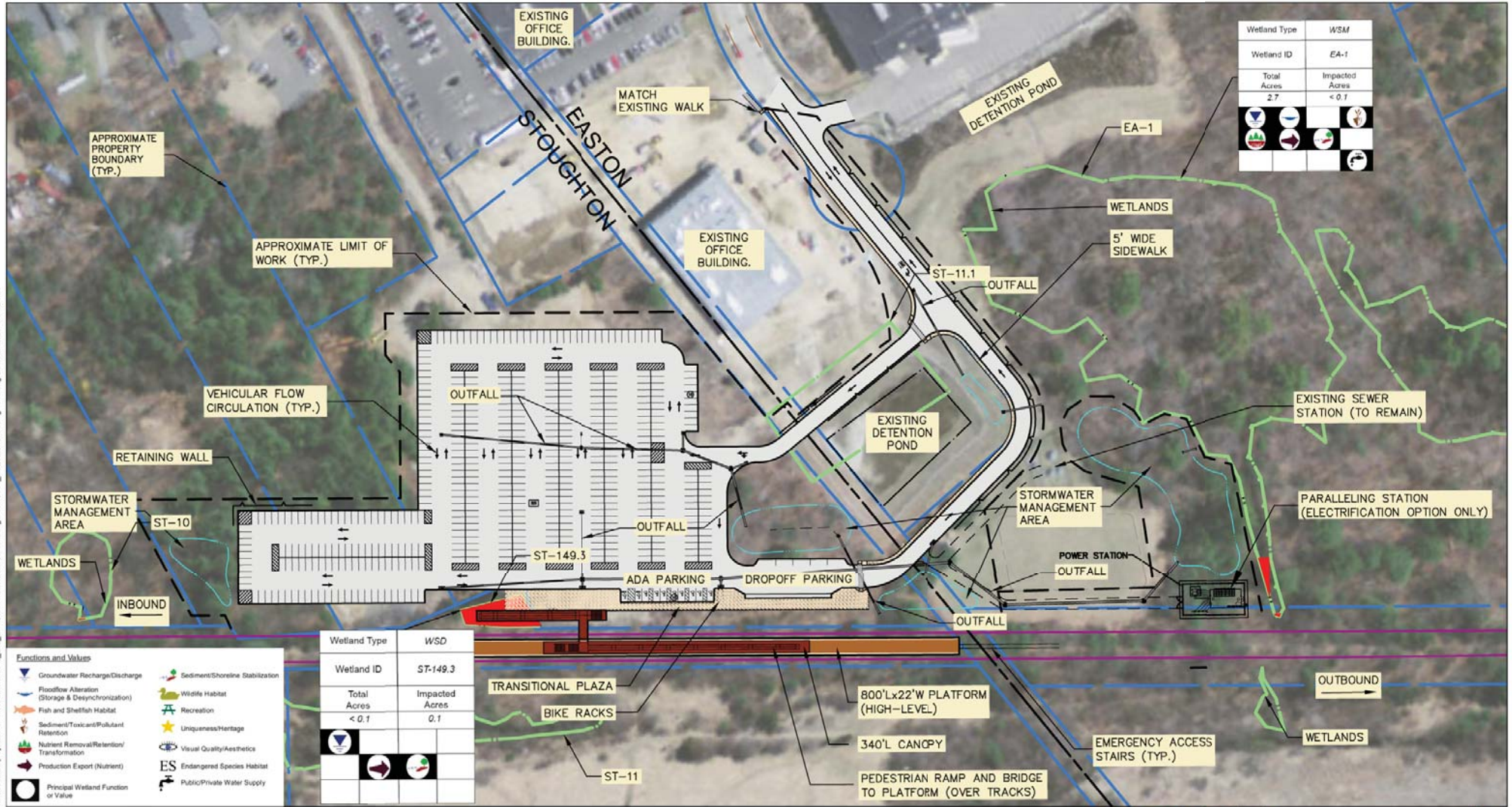
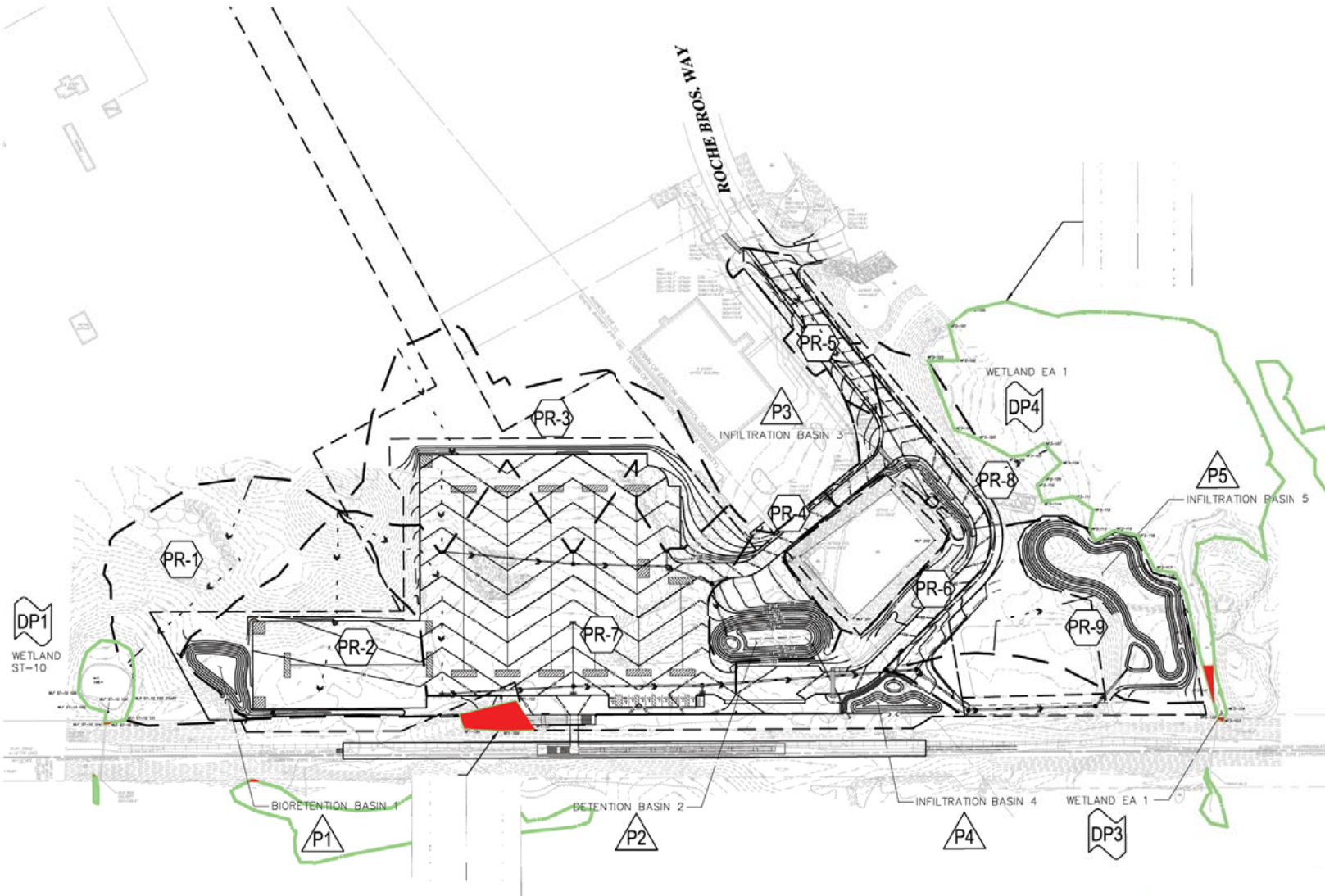


Figure 4.17-15a
 North Easton Station
 Conceptual Station Design

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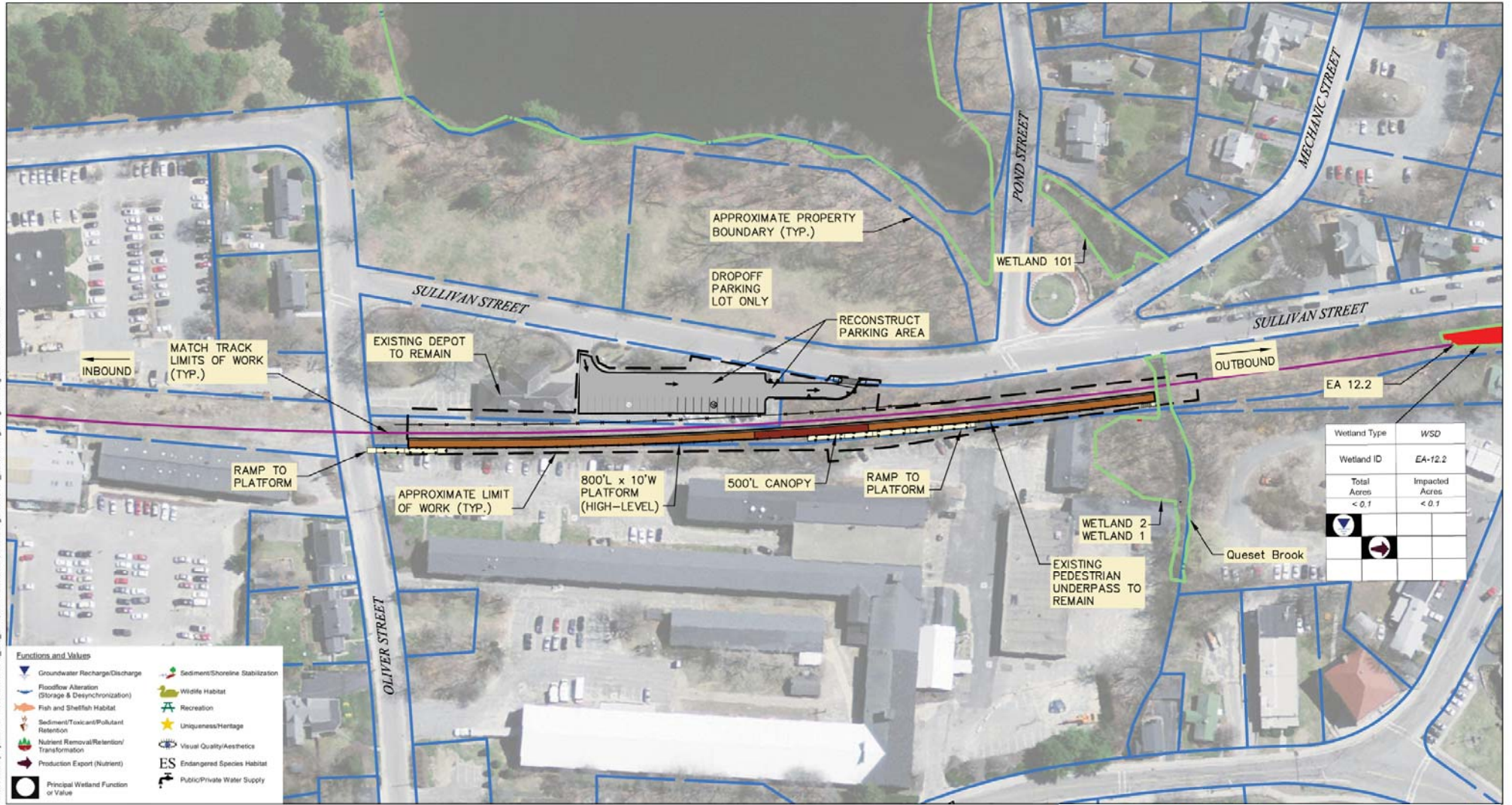


LEGEND	
	SUBCATCHMENT DRAINAGE AREA DESIGNATION
	POND
	DESIGN POINT
	DRAINAGE AREA BOUNDARY
	TIME OF CONCENTRATION FLOW LINE
	LIMIT OF ACQUISITION
	LIMIT OF WORK
	WETLANDS
	WETLAND IMPACTS



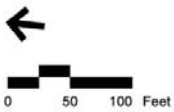
Figure 4.17-15b
North Easton Station
Proposed Conditions Drainage Areas

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Functions and Values

	Sediment/Shoreline Stabilization
	Wildlife Habitat
	Recreation
	Uniqueness/Heritage
	Visual Quality/Aesthetics
	ES Endangered Species Habitat
	Public/Private Water Supply



Legend

	Platform		Property
	Canopy		Stormwater Management Area
	Transitional Plaza		Limit of Work
	Proposed Track		Wetlands
			Impacted Wetlands

Figure 4.17-16
 Wetland Impacts
 Easton Village Station

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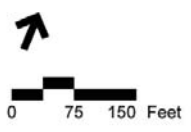
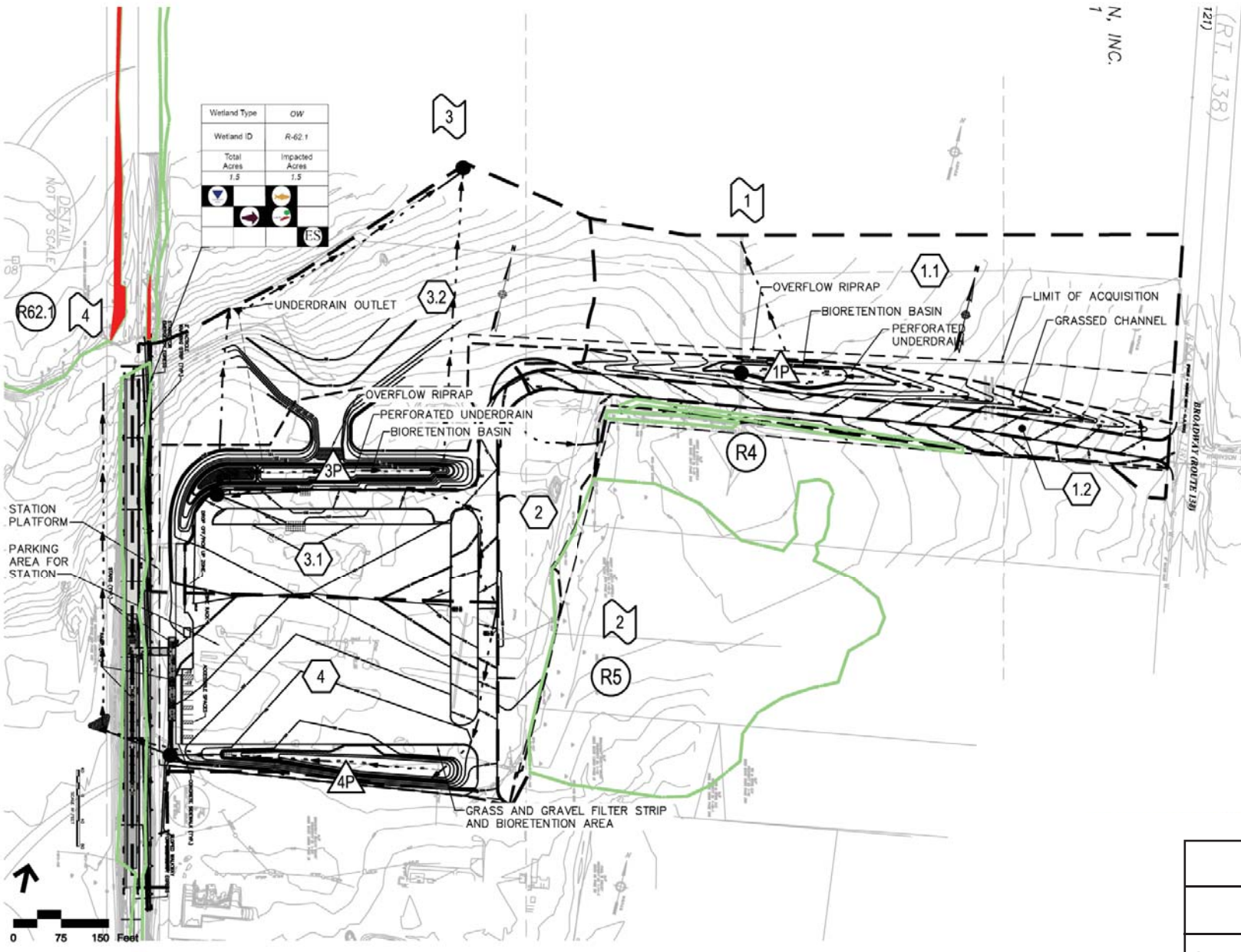


Figure 4.17-17a
 Raynham Park Station
 Conceptual Station Design

\\nas03\proj\proj\10111\04\04\FINAL_ES_ESR\Somerset\04a\StationRaynham Park\Somerset Figure 4.17-17b Proposed Conditions Drainage Areas



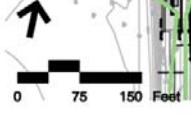
LEGEND

- SUBCATCHMENT DRAINAGE AREA DESIGNATION
- POND/BIORETENTION AREA
- DESIGN POINT
- WETLAND RESOURCE AREA

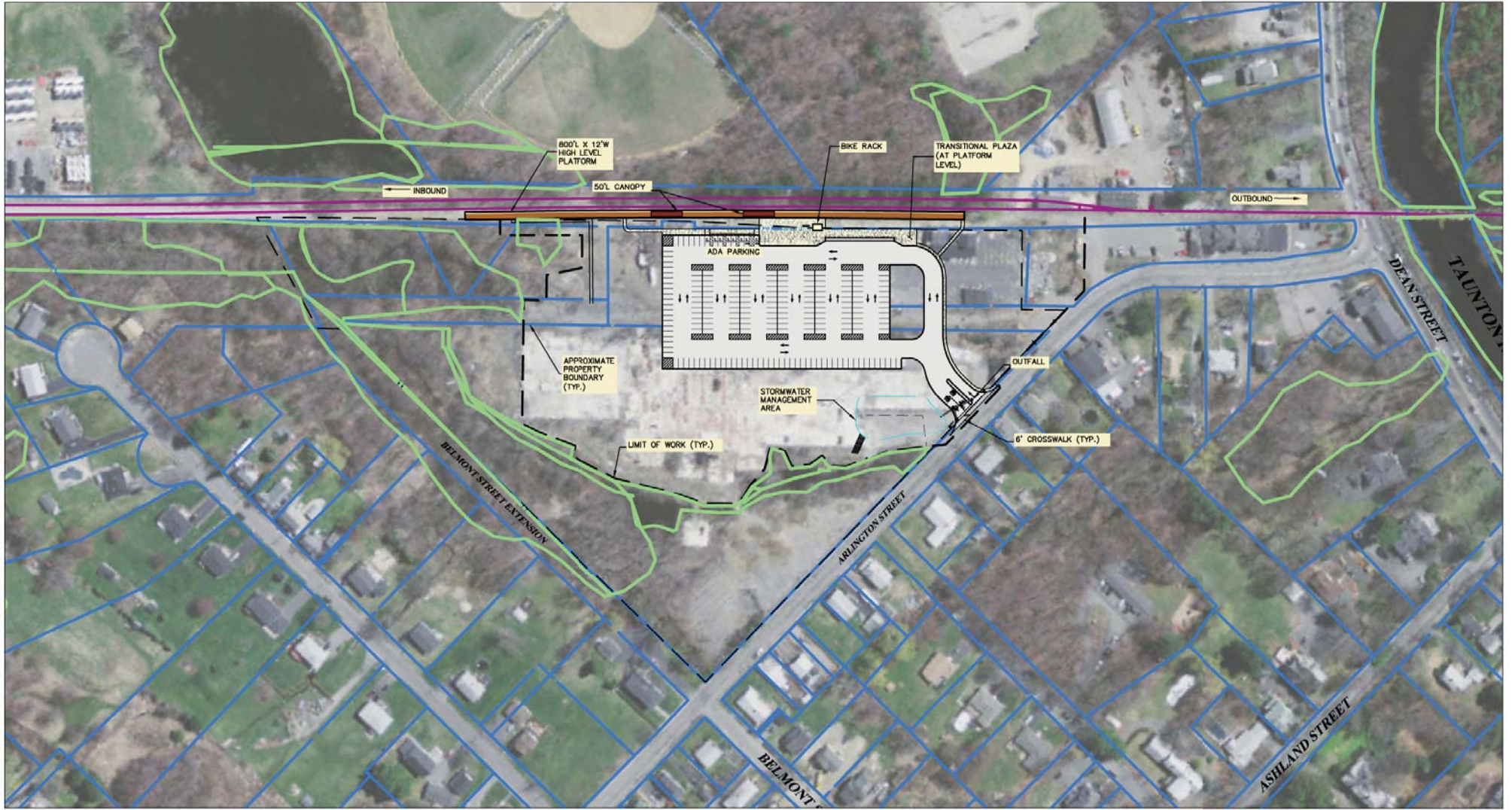
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW LINE
- 100' BUFFER ZONE
- WETLANDS
- WETLAND IMPACTS

4-220 4-219

Figure 4.17-17b
 Raynham Park Station
 Proposed Conditions Drainage Areas



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Legend

-  Platform
-  Canopy
-  Transitional Plaza
-  Proposed Track
-  Property
-  Stormwater Management Area
-  Limit of Work
-  Wetlands

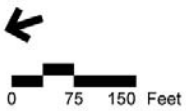


Figure 4.17-18a
Taunton Station
Conceptual Station Design

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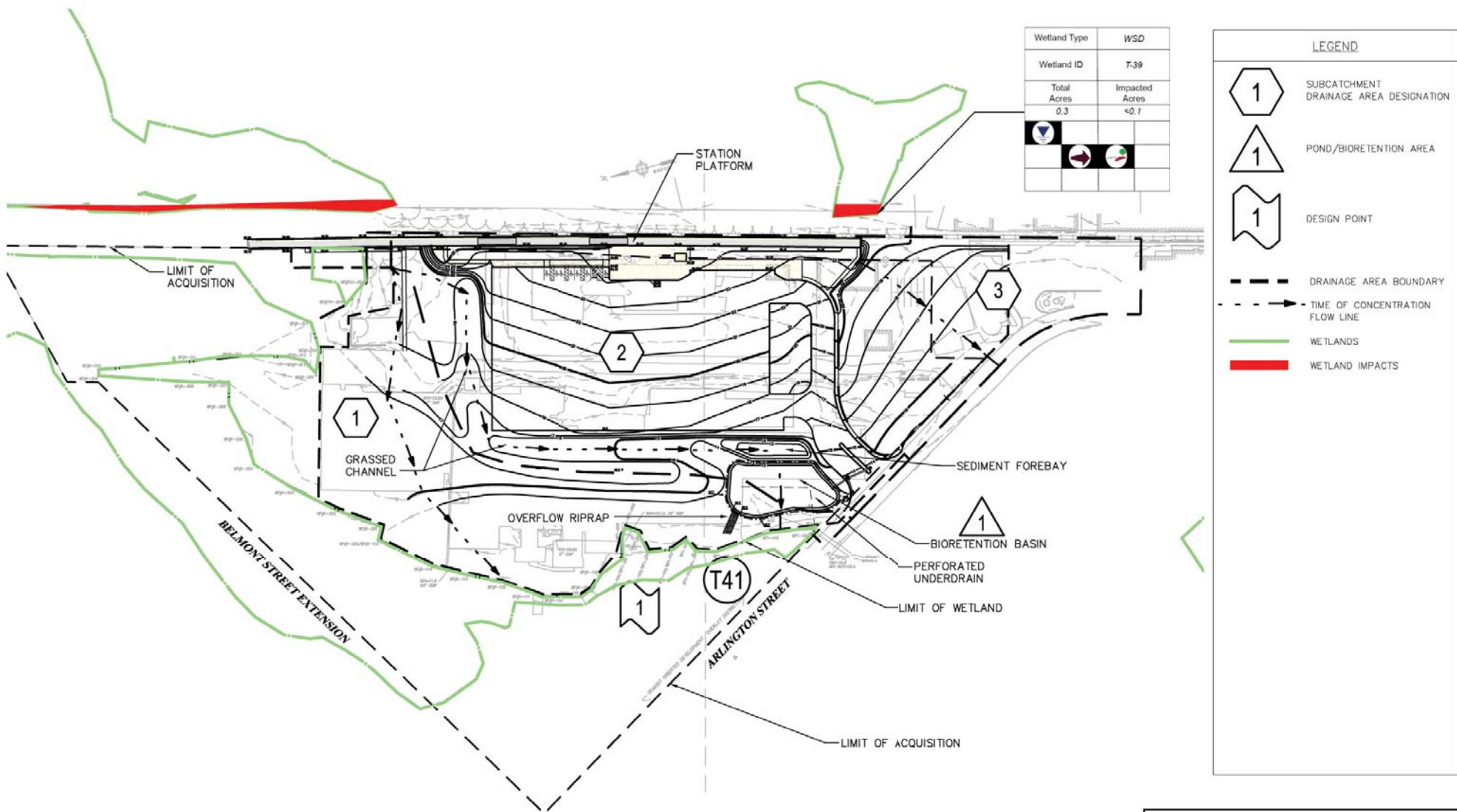


Figure 4.17-18b
 Taunton Station
 Proposed Conditions Drainage Areas

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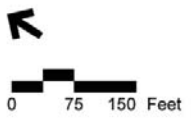
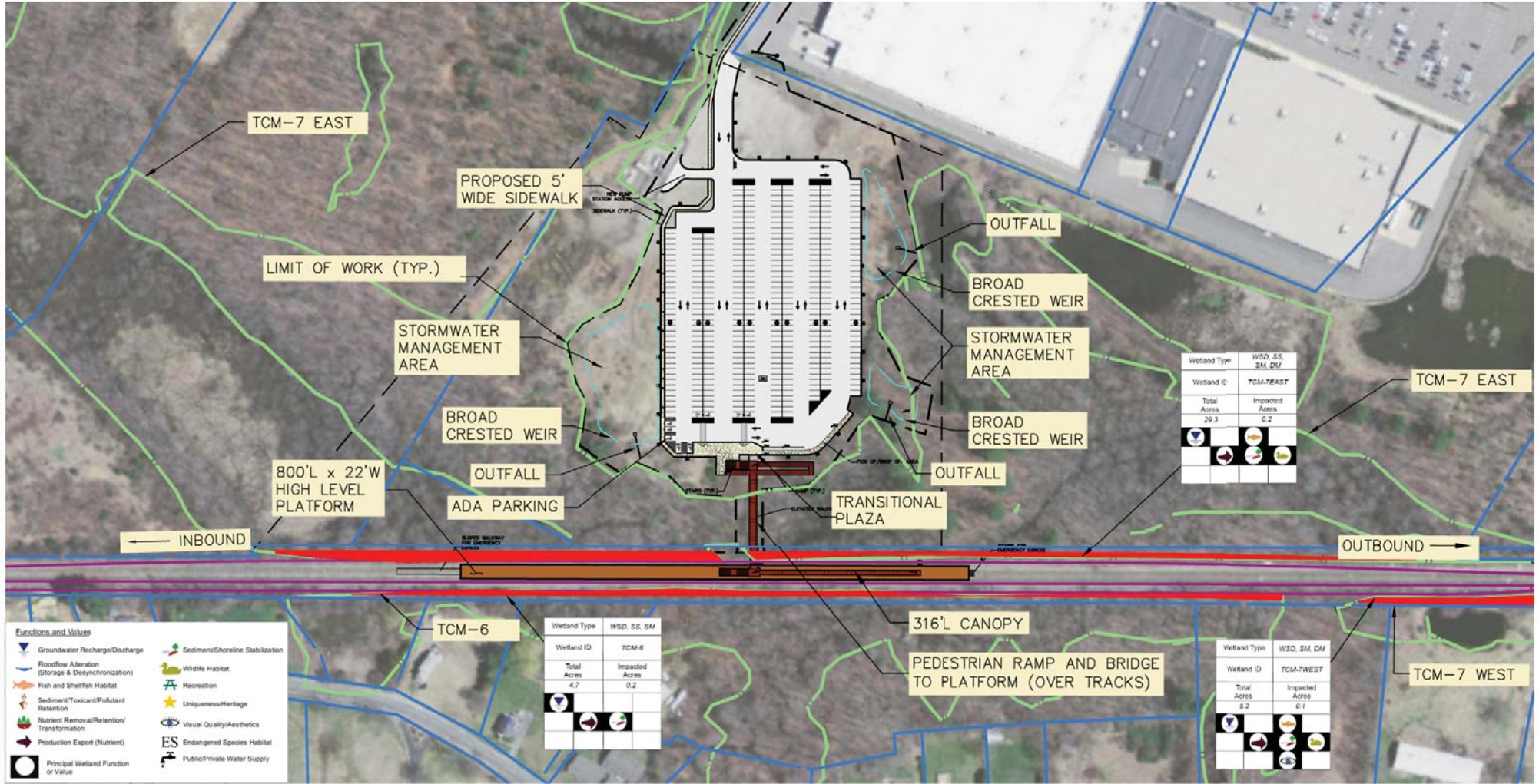
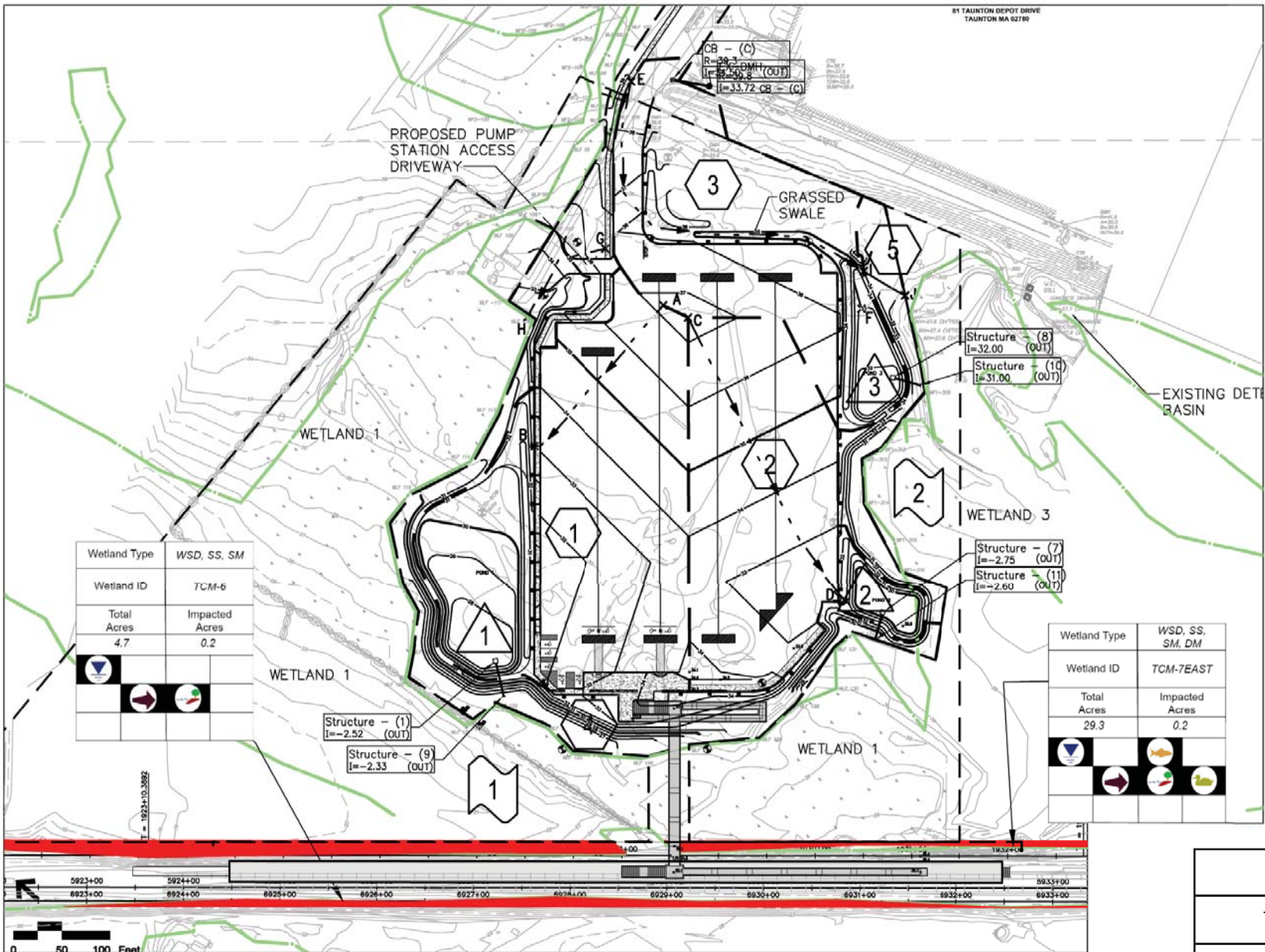


Figure 4.17-19a
 Taunton Depot Station
 Conceptual Station Design

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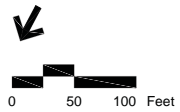
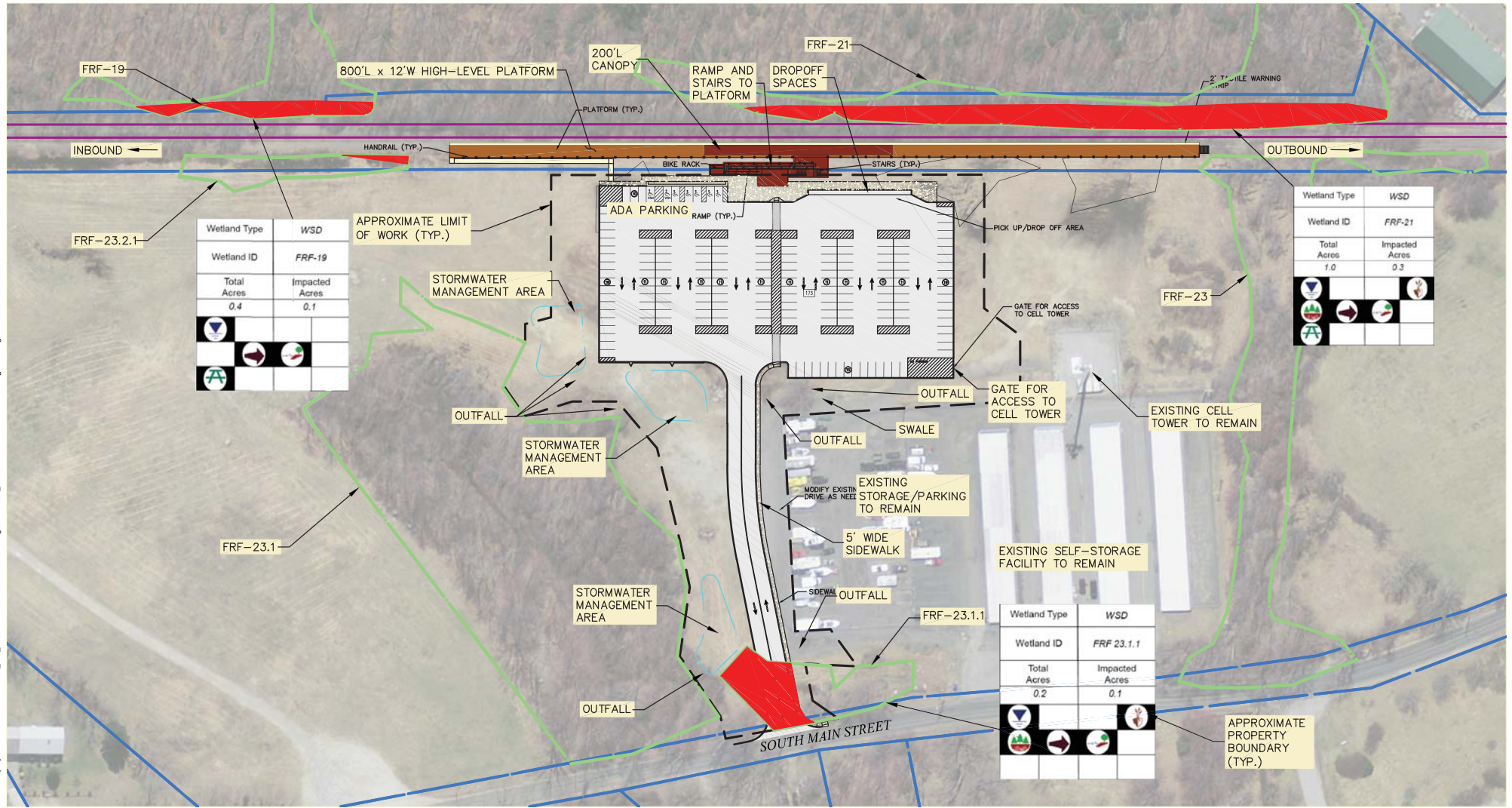
LEGEND

- SUBCATCHMENT DRAINAGE AREA DESIGNATION
- POND
- DESIGN POINT
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW LINE
- SOIL TYPE BOUNDARY
- WETLAND BOUNDARY
- LIMIT OF ACQUISITION
- LIMIT OF WORK
- WETLANDS
- WETLAND IMPACTS

Wetland Type	WSD, SS, SM
Wetland ID	TCM-6
Total Acres	4.7
Impacted Acres	0.2

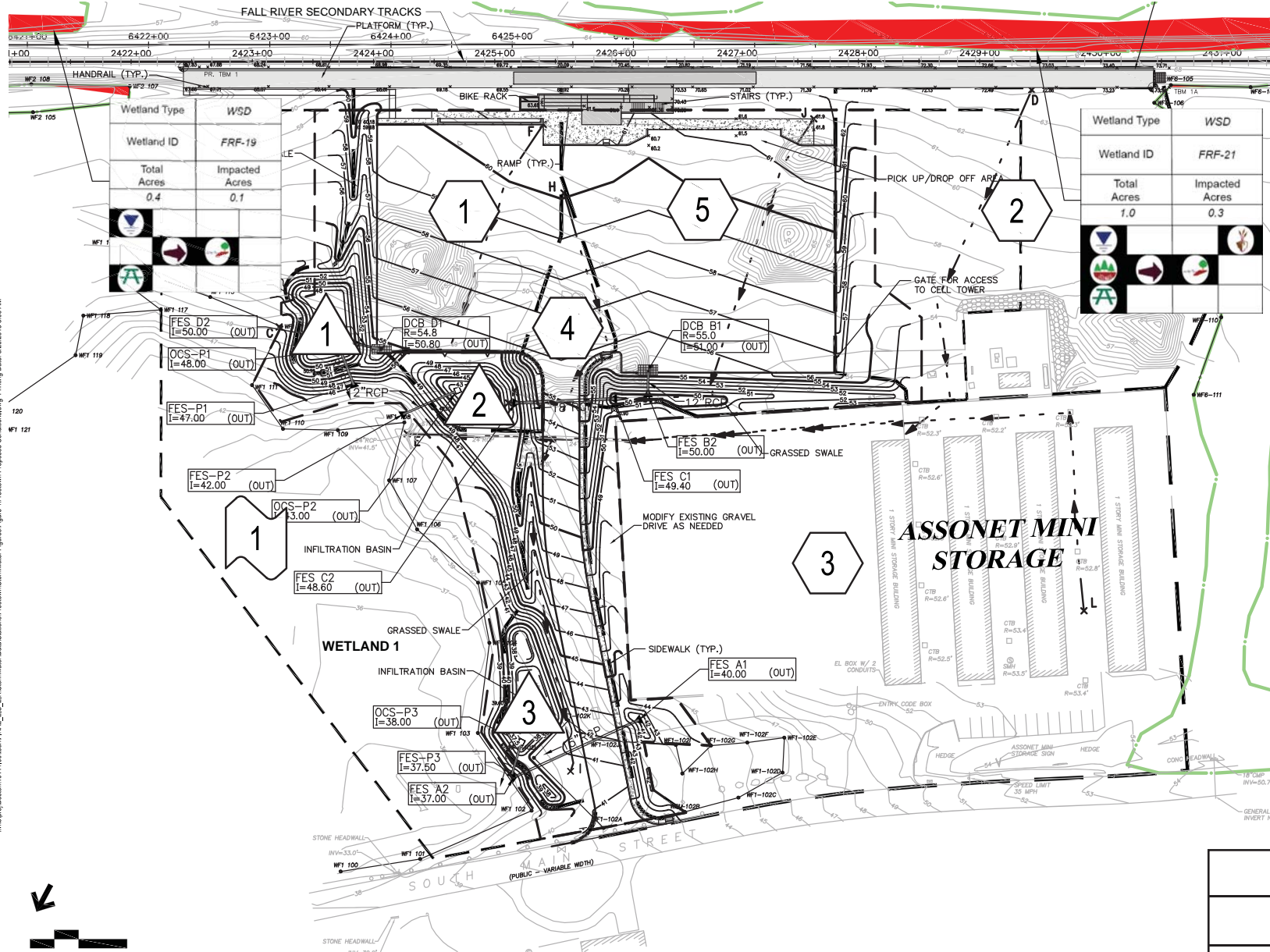
Wetland Type	WSD, SS, SM, DM
Wetland ID	TCM-7EAST
Total Acres	29.3
Impacted Acres	0.2

Figure 4.17-19b
 Taunton Depot Station
 Proposed Conditions Drainage Areas



- Legend**
- Platform
 - Canopy
 - Transitional Plaza
 - Proposed Track
 - Property
 - Stormwater Management Area
 - Limit of Work
 - Wetlands
 - Impacted Wetlands

Figure 4.17-20a
Wetland Impacts
Freetown Station

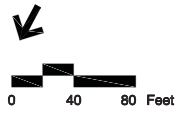


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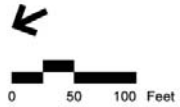
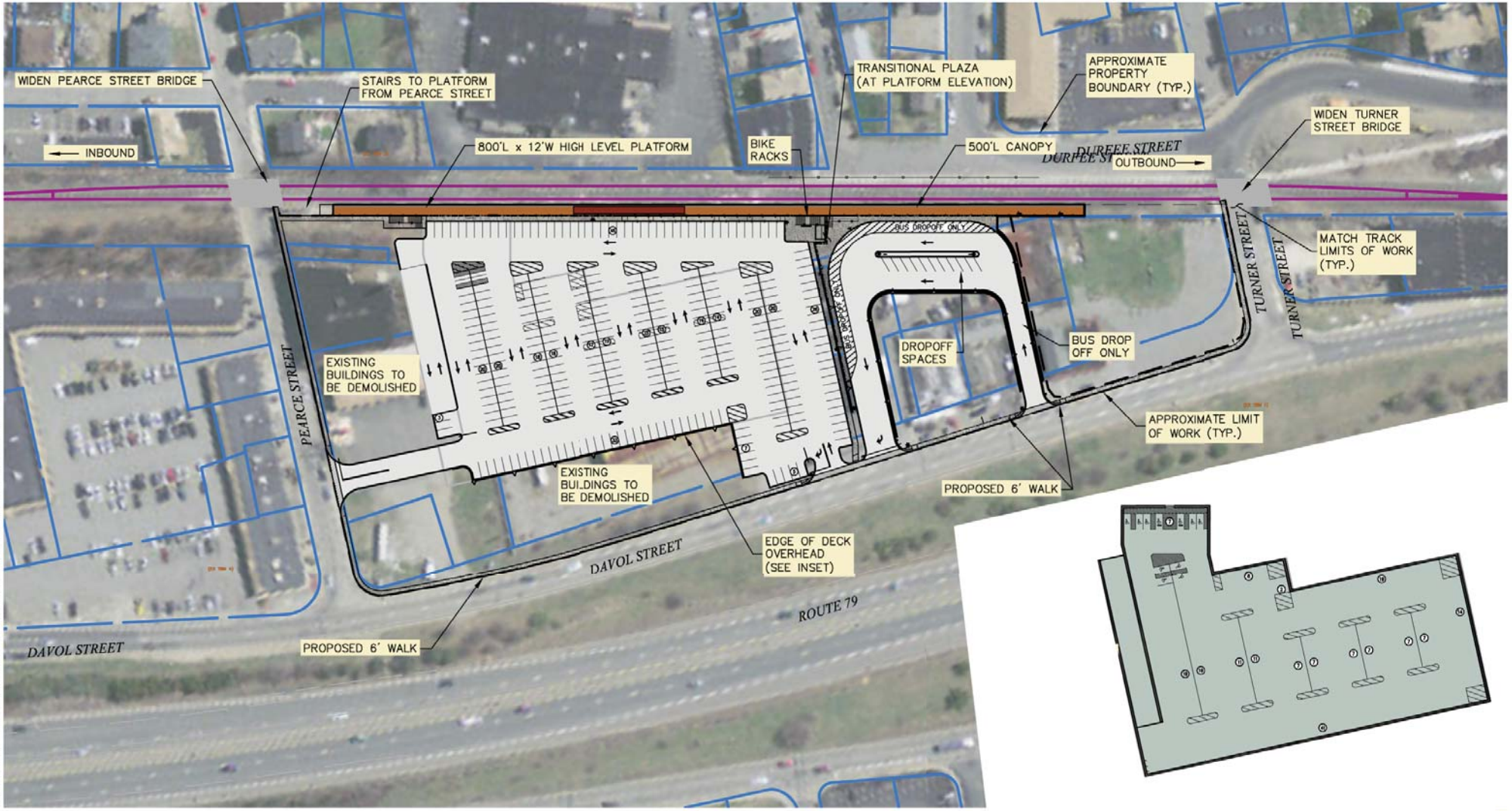
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- POND
- DESIGN POINT
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW LINE
- SOIL TYPE BOUNDARY
- WETLAND BOUNDARY
- ACQUISITION LIMIT
- LIMIT OF WORK
- WETLANDS
- WETLAND IMPACTS

Figure 4.17-20b
 Freetown Station
 Proposed Conditions Drainage Areas

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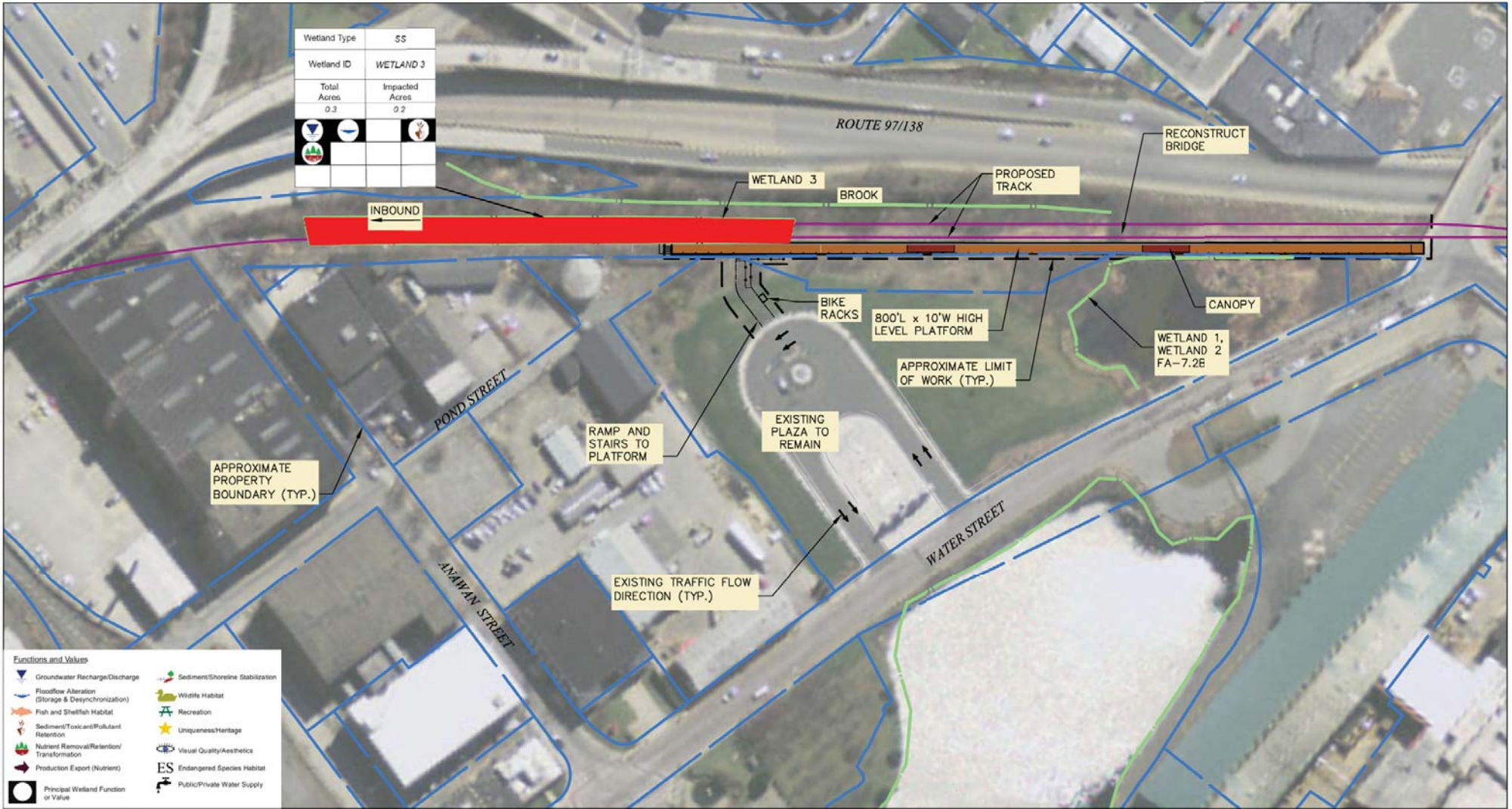
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Legend			
	Platform		Property
	Canopy		Stormwater Management Area
	Transitional Plaza		Limit of Work
	Proposed Track		Wetlands

Figure 4.17-21
Fall River Depot Station
Conceptual Station Design

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- Functions and Values**
- Groundwater Recharge/Discharge
 - Floodflow Alteration (Storage & Desynchronization)
 - Fish and Shellfish Habitat
 - Sediment/Toxicant/Pollutant Retention
 - Nutrient Removal/Retention/Transformation
 - Production Export (Nutrient)
 - Principal Wetland Function or Value
 - Sediment/Shoreline Stabilization
 - Wildlife Habitat
 - Recreation
 - Uniqueness/Heritage
 - Visual Quality/Aesthetics
 - ES Endangered Species Habitat
 - Public/Private Water Supply



- Legend**
- Platform
 - Canopy
 - Transitional Plaza
 - Proposed Track
 - Property
 - Stormwater Management Area
 - Limit of Work
 - Wetlands
 - Impacted Wetlands

Figure 4.17-22
 BattleShip Cove Station
 Conceptual Station Design

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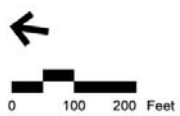
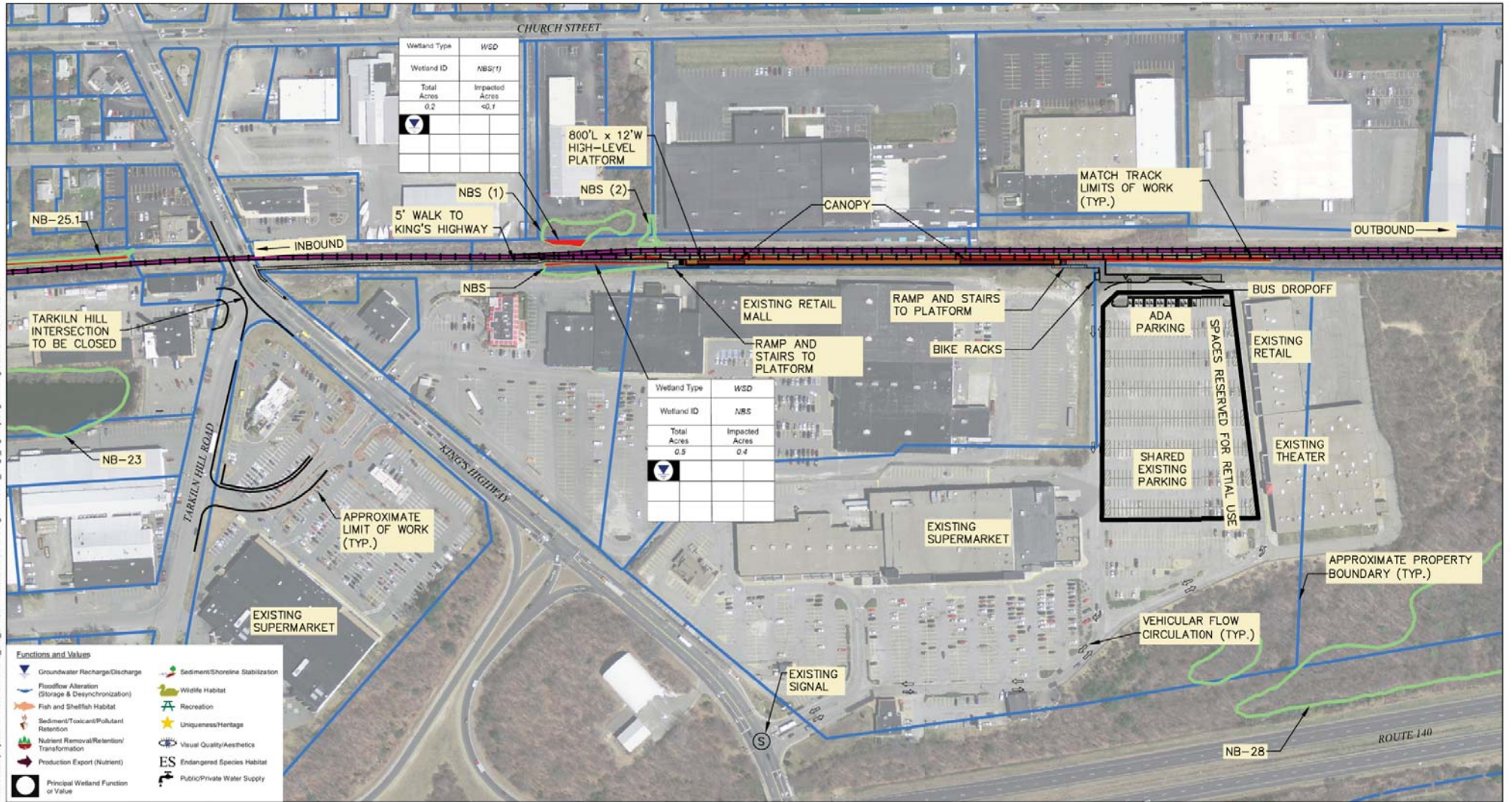
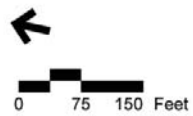
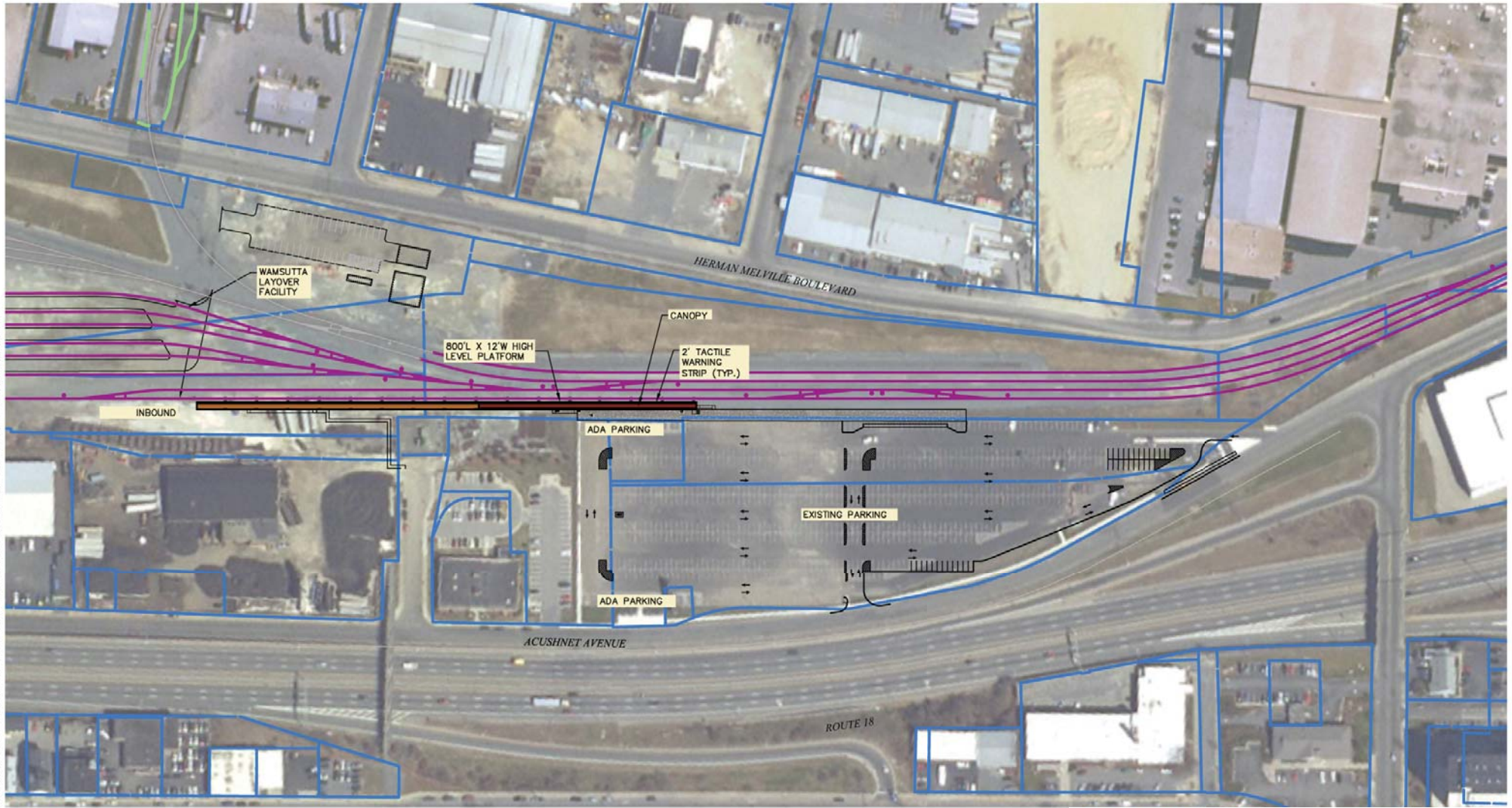


Figure 4.17-23
King's Highway Station
Conceptual Station Design

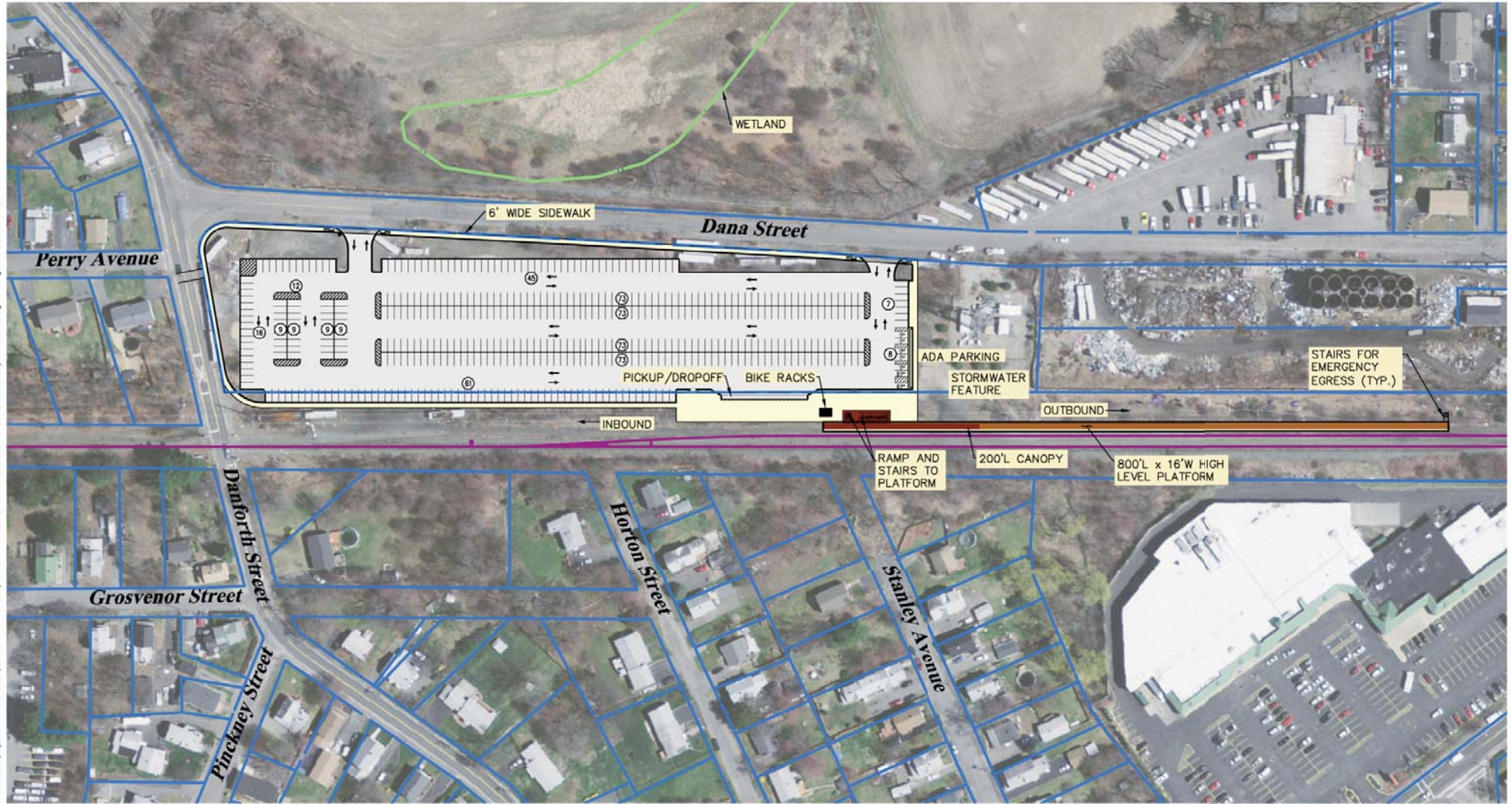
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Legend	
	Platform
	Canopy
	Transitional Plaza
	Proposed Track
	Property
	Stormwater Management Area
	Limit of Work
	Wetlands

Figure 4.17-24
Whale's Tooth Station
Conceptual Station Design

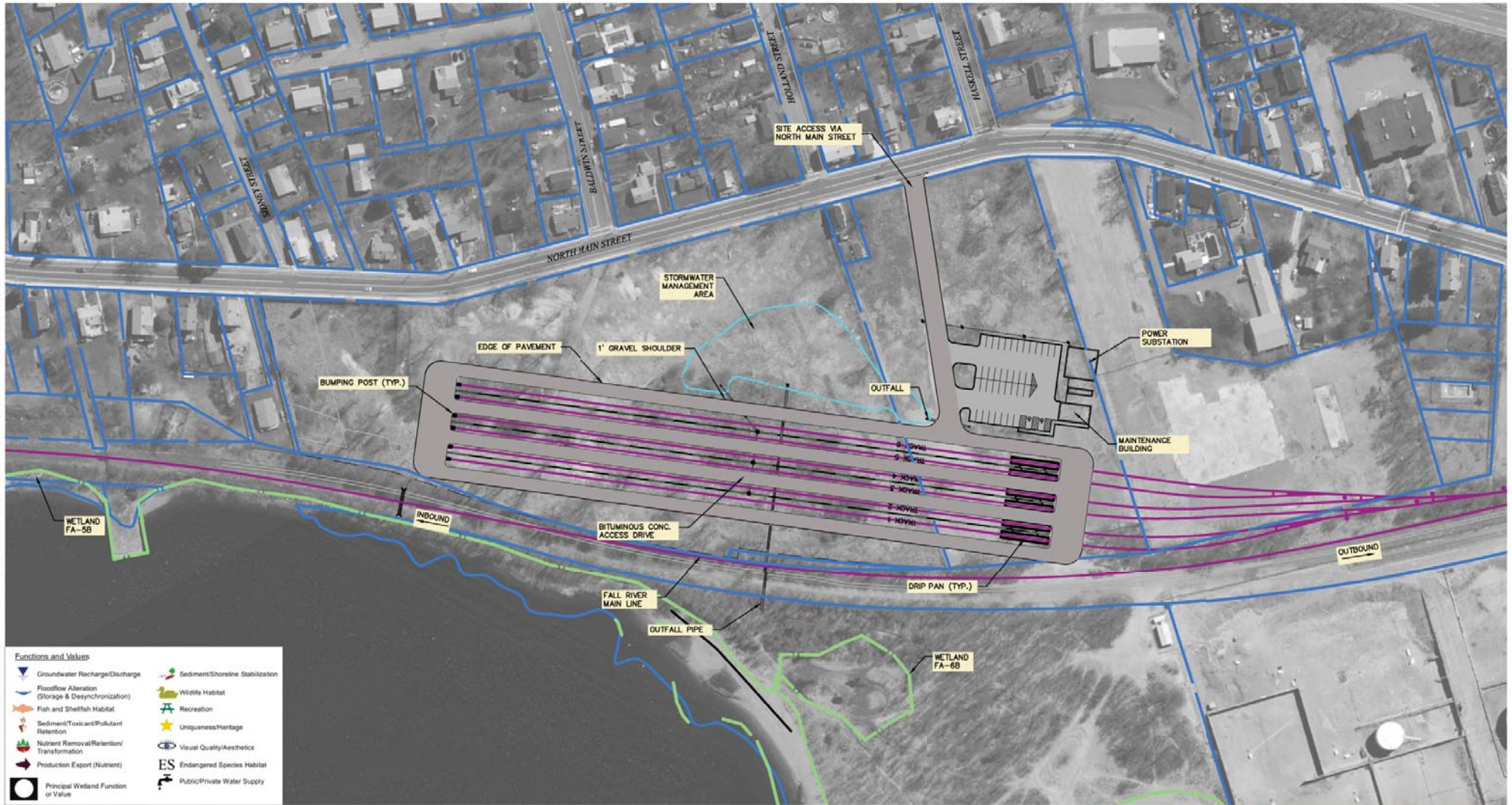
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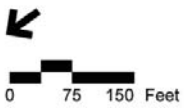
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|---|---|
| <p>Legend</p> <ul style="list-style-type: none"> Platform Canopy Transitional Plaza Proposed Track | <ul style="list-style-type: none"> Property Stormwater Management Area Limit of Work Wetlands Impacted Wetlands |
|---|---|

Figure 4.17-25
Dana Street Station
Conceptual Station Design

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Functions and Values	
Groundwater Recharge/Discharge	Sediment/Shoreline Stabilization
Floodflow Alteration (Storage & Desynchronization)	Wildlife Habitat
Fish and Shellfish Habitat	Recreation
Sediment/Toxicant/Pollutant Retention	Uniqueness/Heritage
Nutrient Removal/Retention/Transformation	Visual Quality/Aesthetics
Production Export (Nutrient)	Endangered Species Habitat
Principal Wetland Function or Value	Public/Private Water Supply



Legend	
Platform	Property
Canopy	Stormwater Management Area
Transitional Plaza	Limit of Work
Proposed Track	Wetlands
	Impacted Wetlands

Figure 4.17-26a
 Weaver's Cove East Layover Facility
 Conceptual Facility Design

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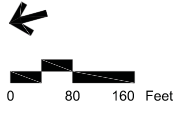
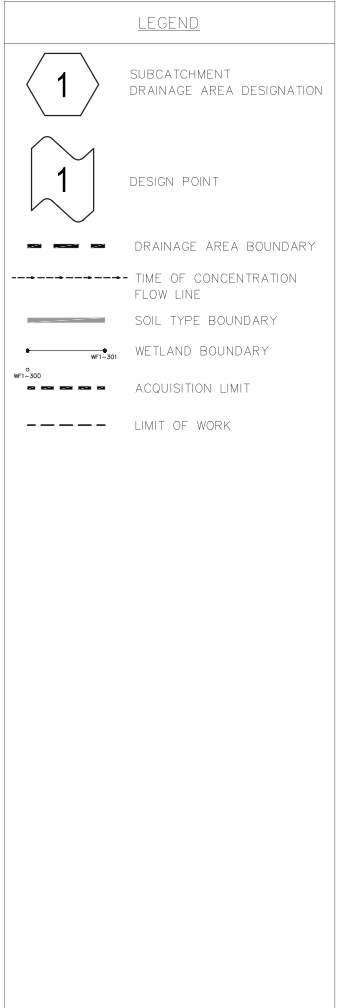
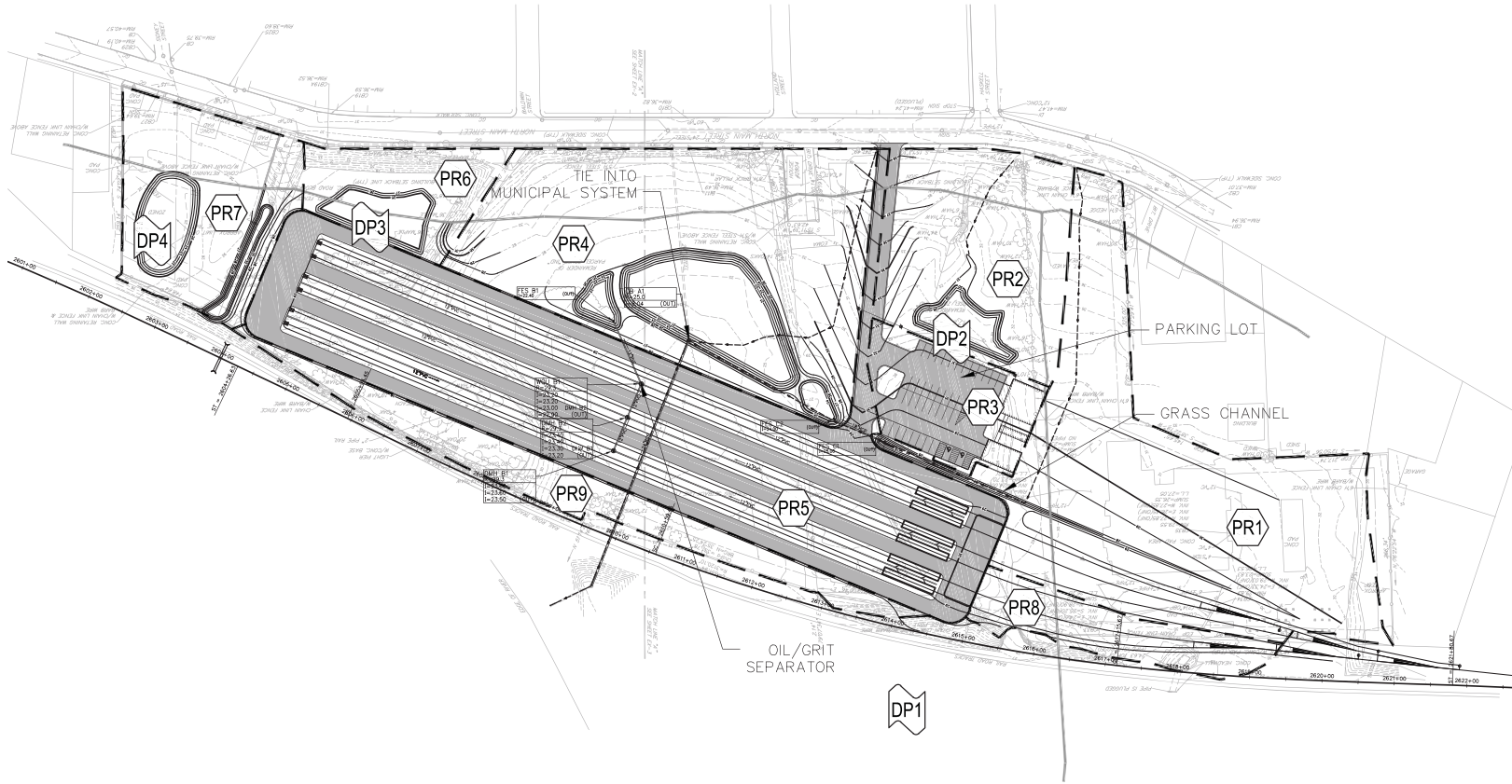
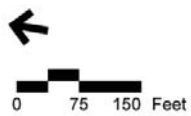
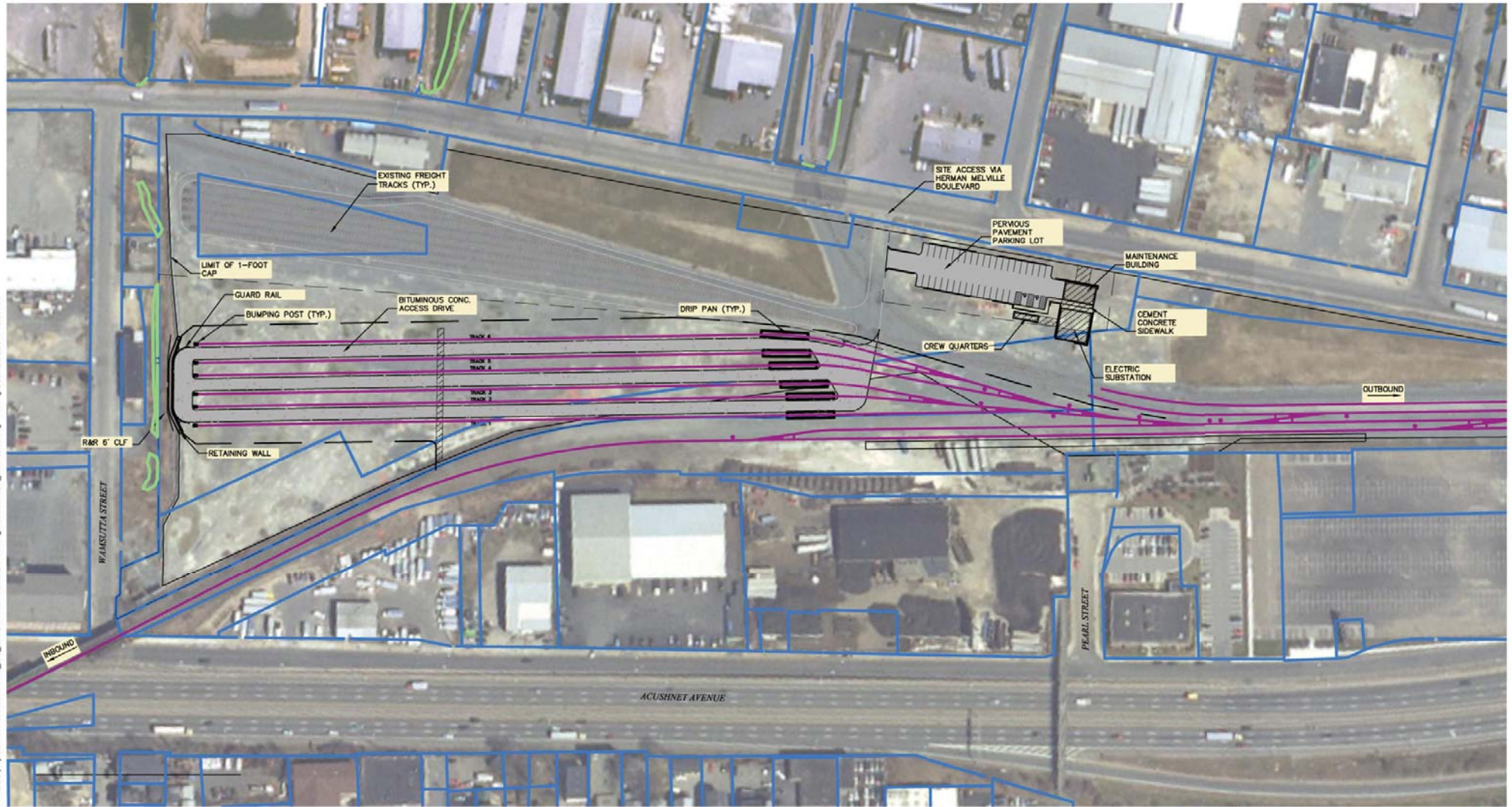


Figure 4.17-26b
Weaver's Cove East Layover Facility
Proposed Conditions Drainage Areas

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- Legend**
- Platform
 - Canopy
 - Transitional Plaza
 - Proposed Track
 - Property
 - Stormwater Management Area
 - Limit of Work
 - Wetlands

Figure 4.17-27
Wamsutta Layover Facility
Conceptual Facility Design