

Project Vicinity

Legend

- Project Features
- Existing Power Facility
- Town Boundary

Q143/R144 Lines Rebuild Project

Figure 1-1 - Project Overview Map

State of Rhode Island
Providence County:
City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

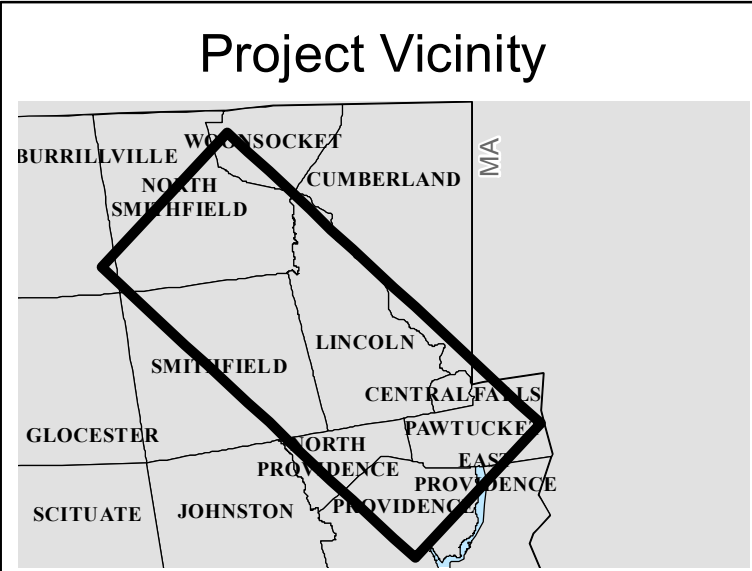
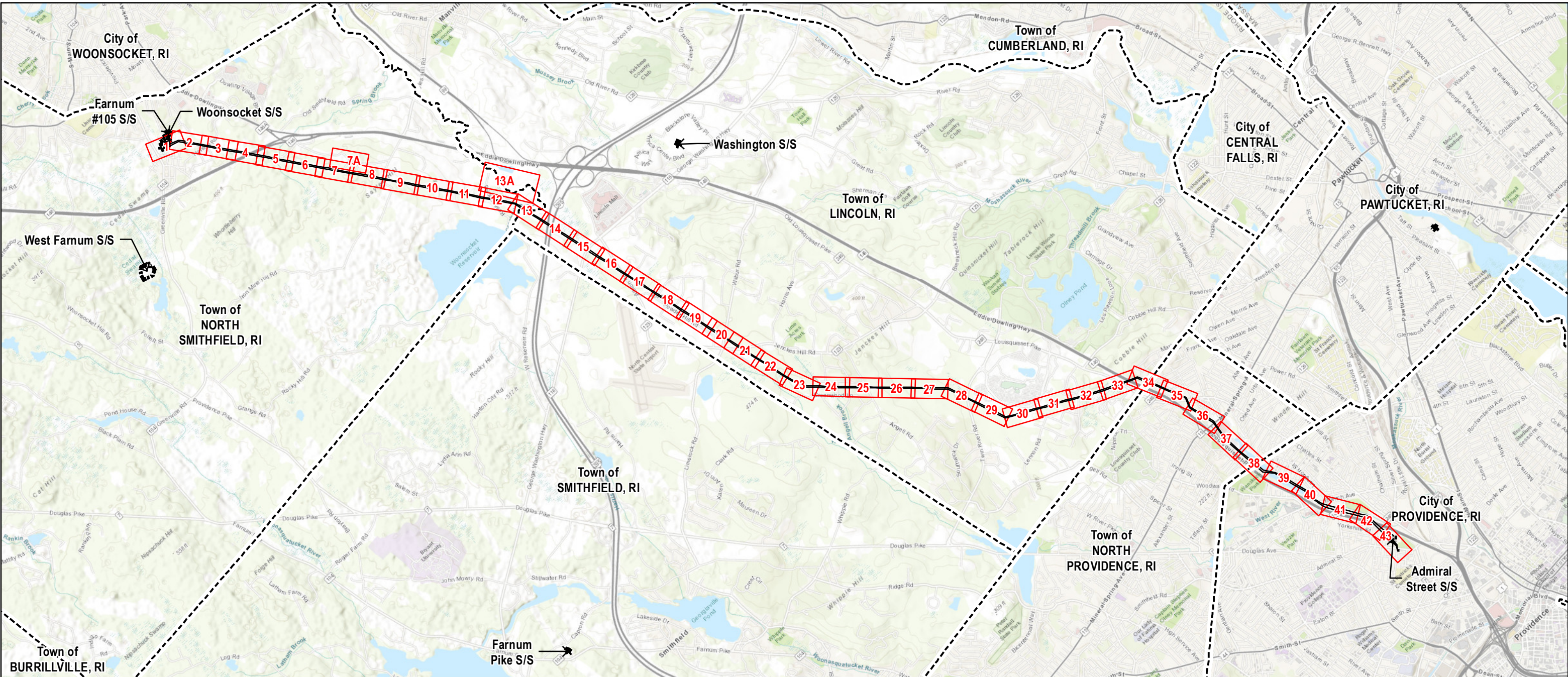
NAD 1983 2011 StatePlane Rhode Island FIPS 3800 F1 US

1" = 4,250'

DATE: May 2025

NOT FOR CONSTRUCTION

AUTHOR: KANDREWS



- Legend**
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Q143/R144 Lines Rebuild Project

Figure 3 -1 - Project Alignment Drawings Index Map

State of Rhode Island

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NAD 1983 2011 StatePlane Rhode Island FIPS 3800 F1 US

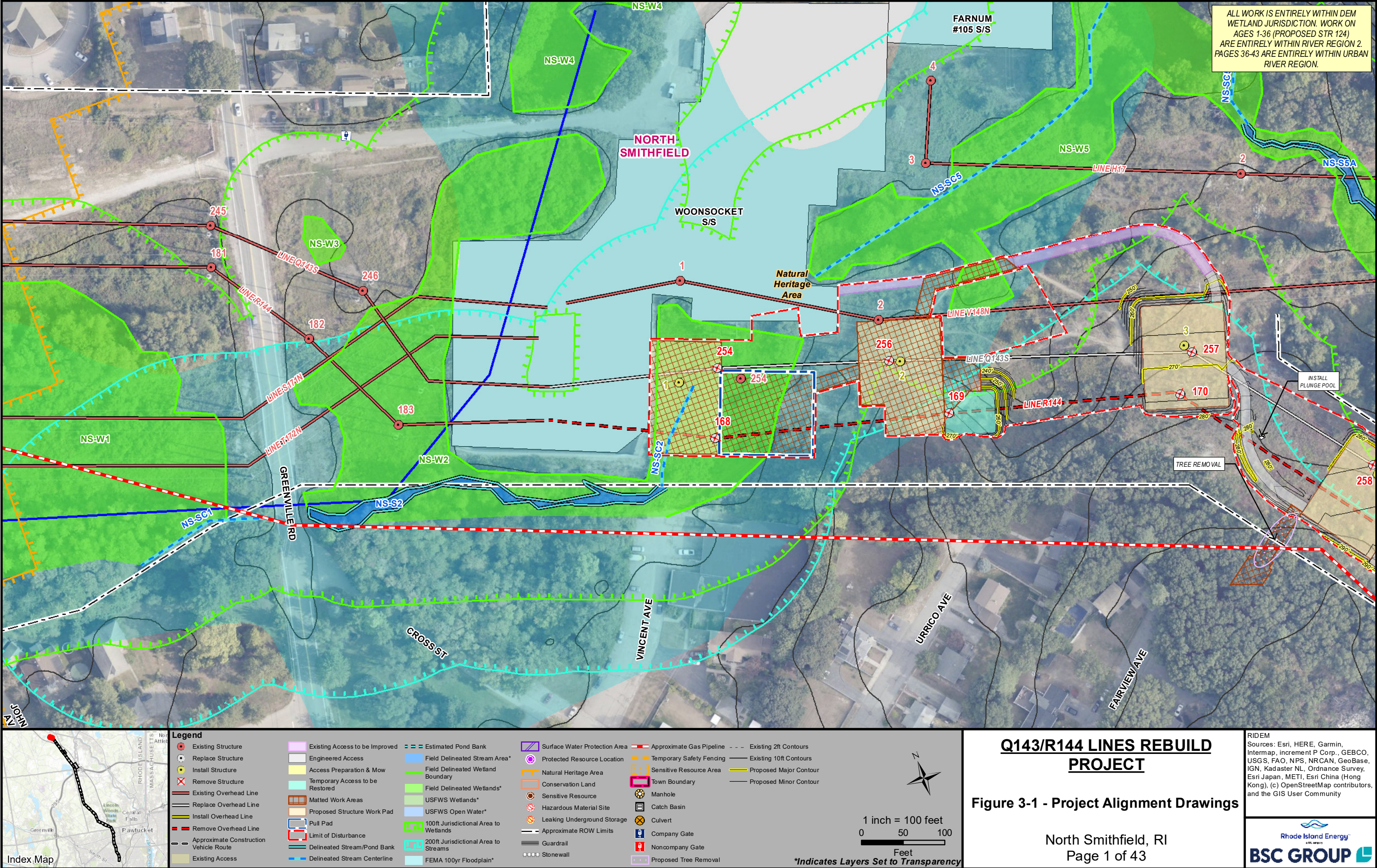
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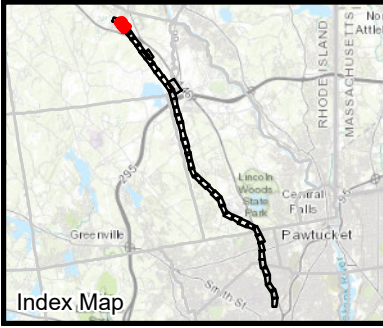
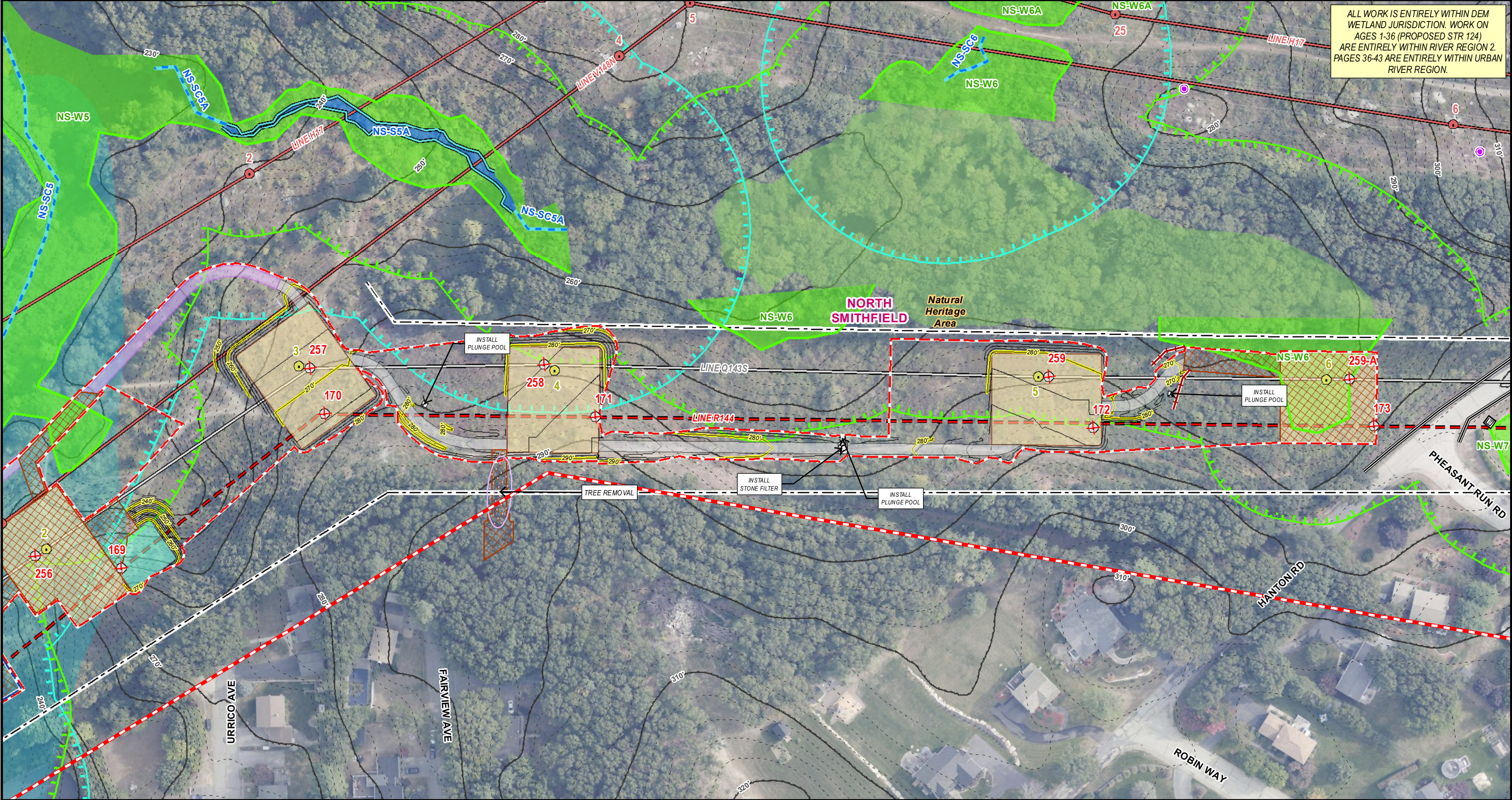
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*Indicates Layers Set to Transparency

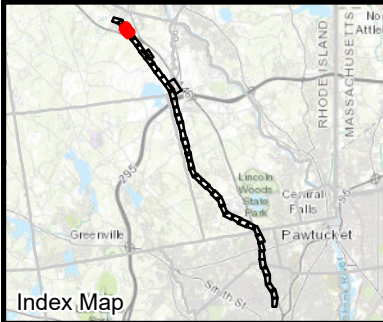
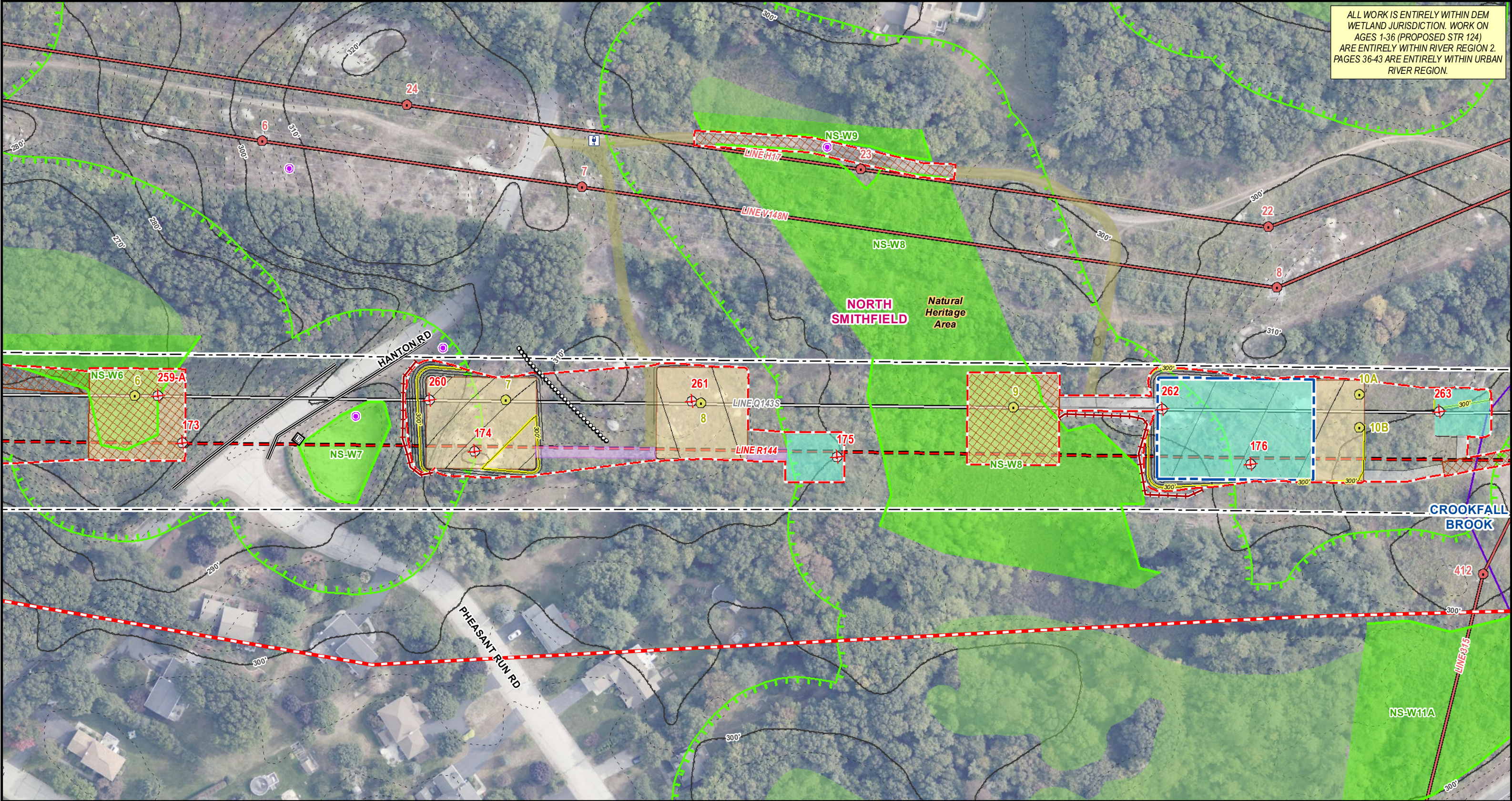
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

North Smithfield, RI
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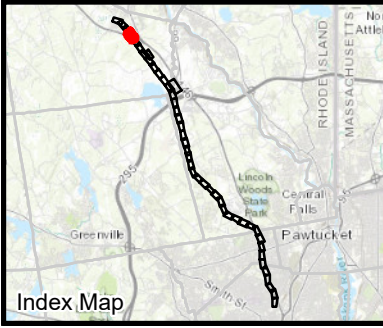
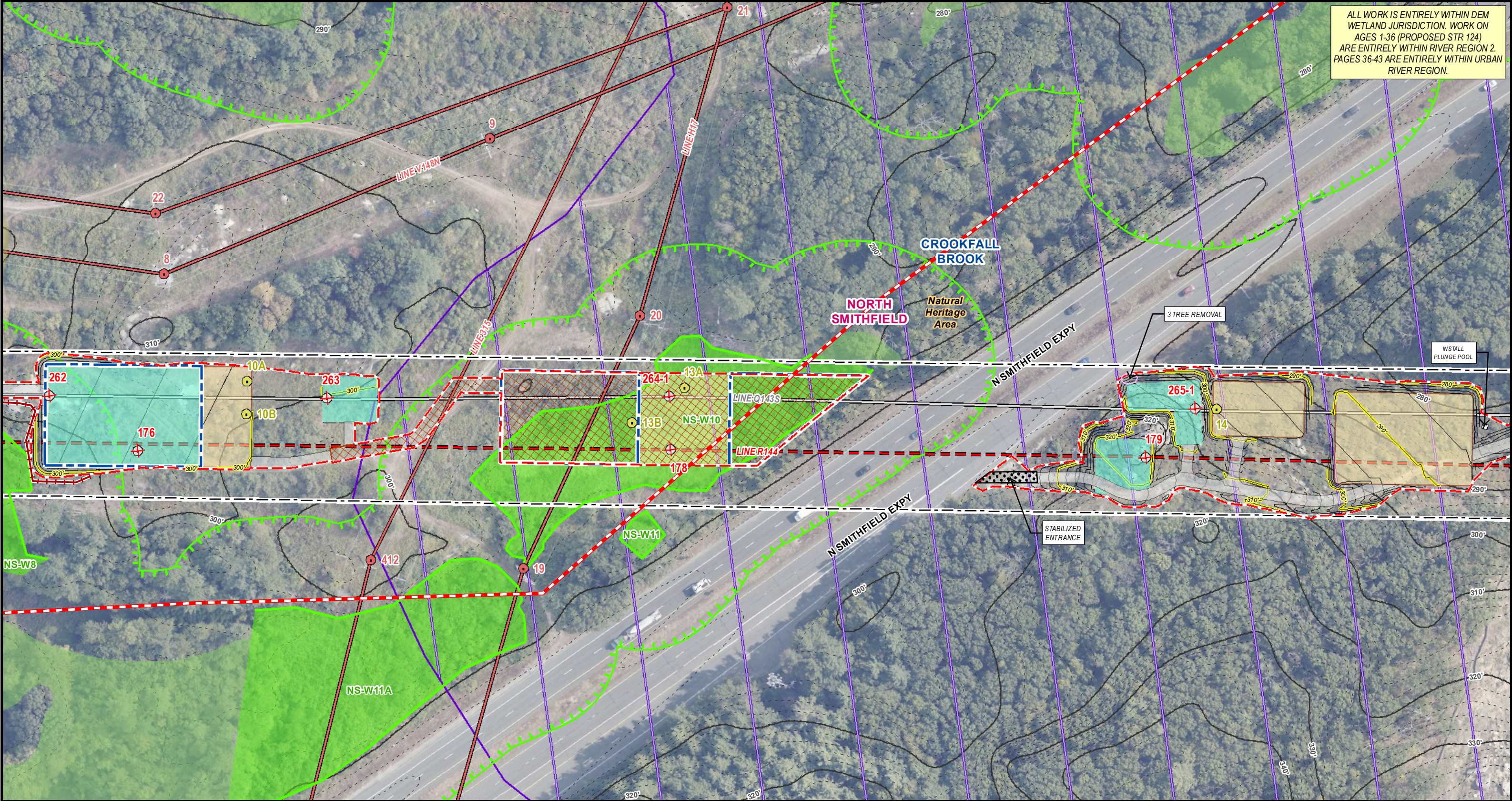
Q143/R144 LINES REBUILD PROJECT

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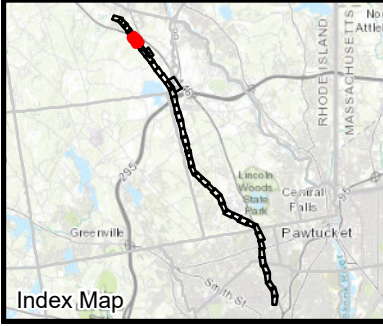
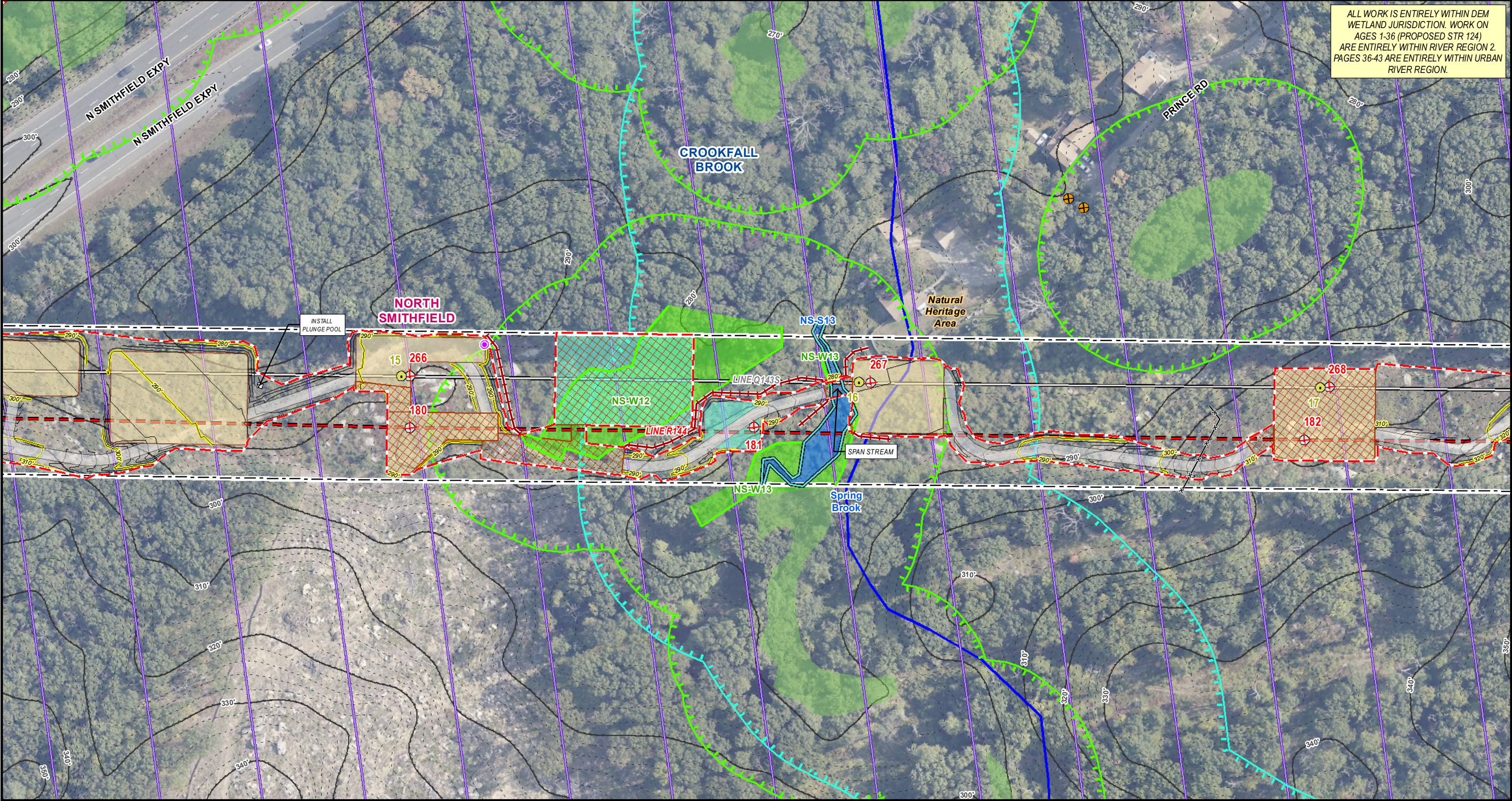
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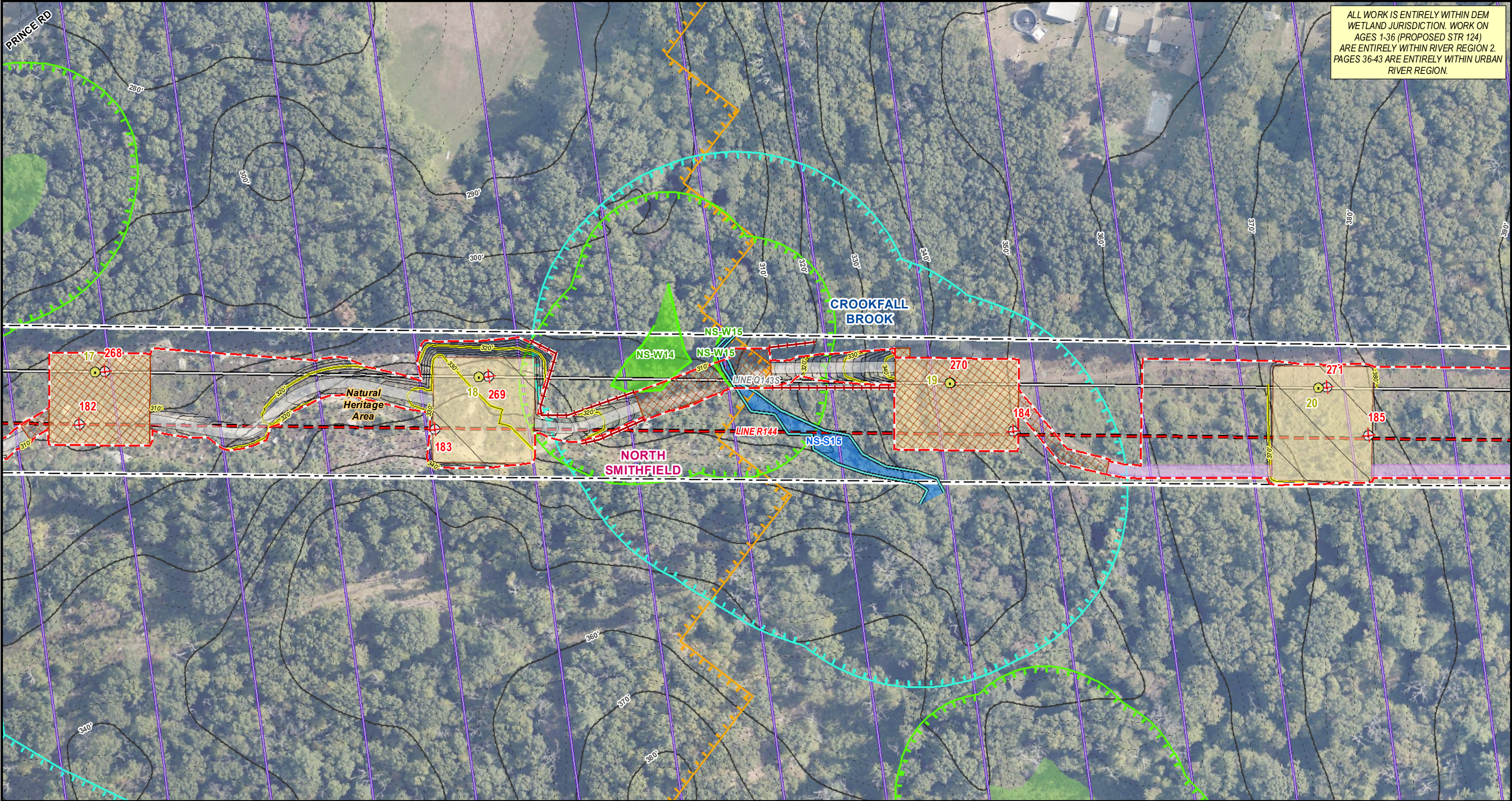
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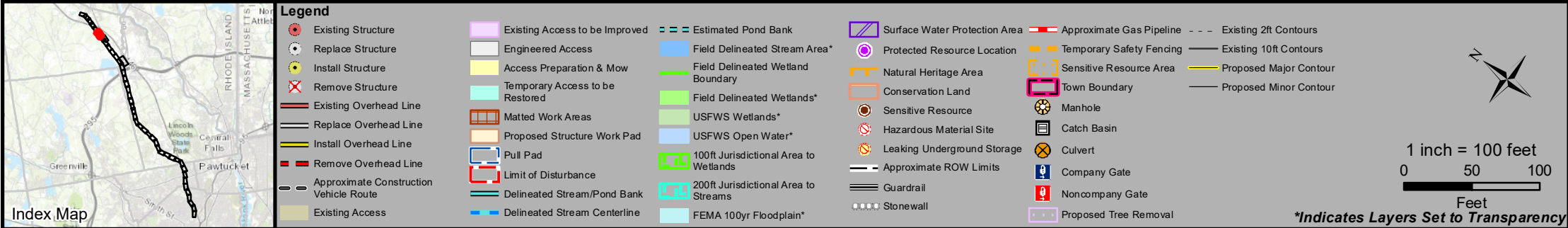
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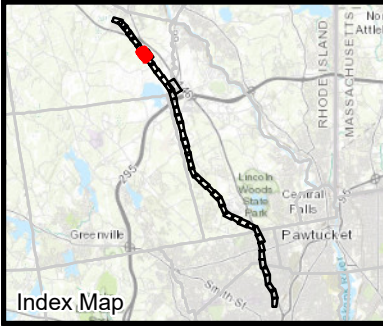
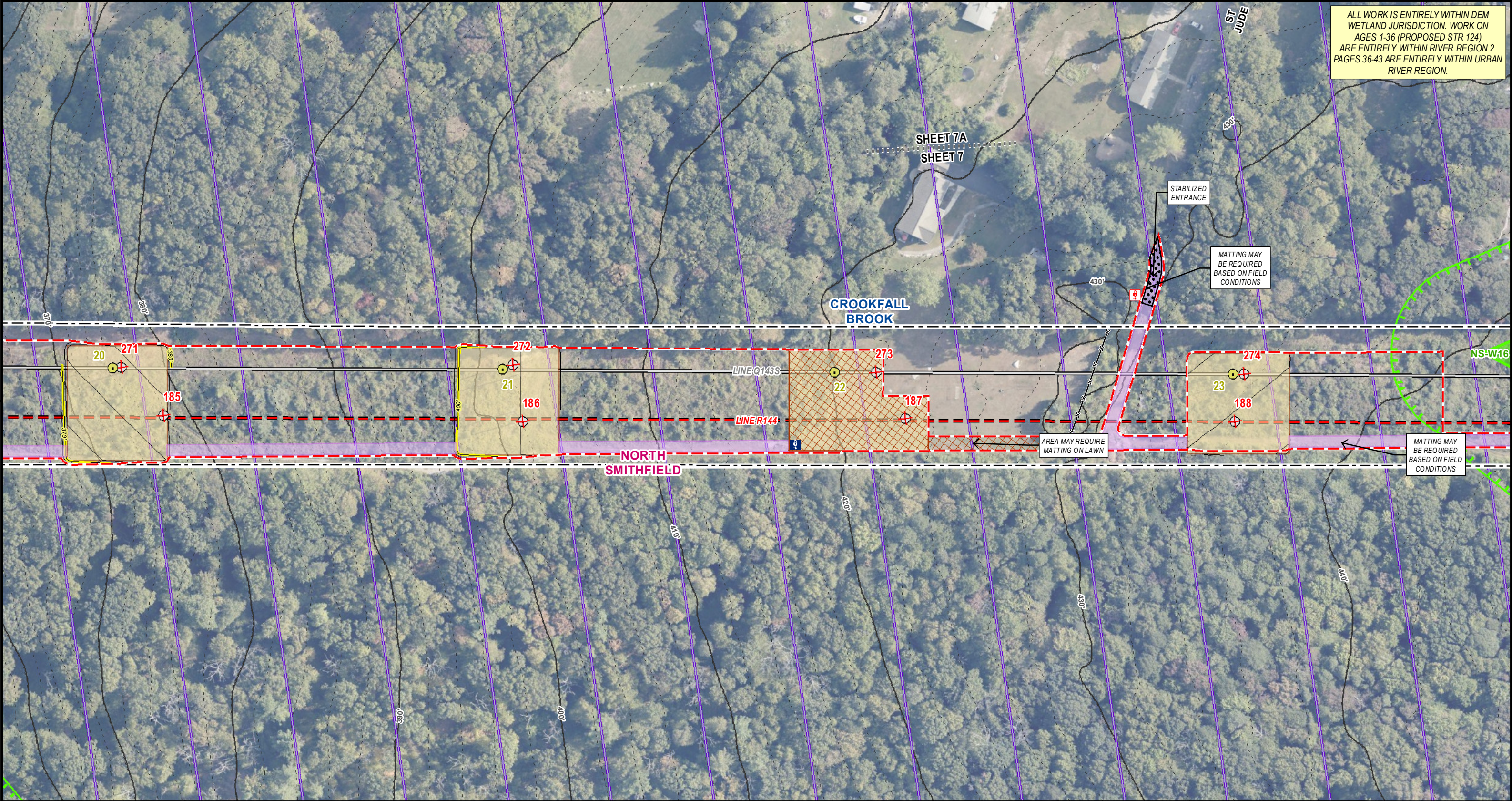
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

North Smithfield, RI
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Legend

Existing Structure	Existing Access to be Improved	Estimated Pond Bank	Surface Water Protection Area	Approximate Gas Pipeline	Existing 2ft Contours
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Existing Access	Delineated Stream Centerline		Stonewall	Proposed Tree Removal	

1 inch = 100 feet

0 50 100

Feet

**Indicates Layers Set to Transparency*

Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

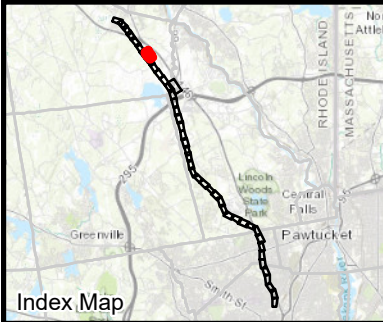
North Smithfield, RI

Page 7 of 43

RIDEM
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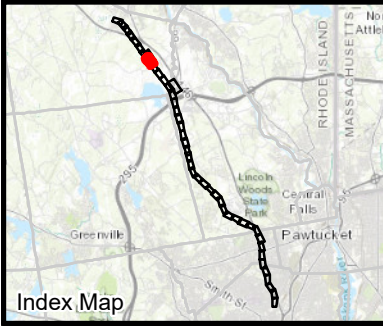
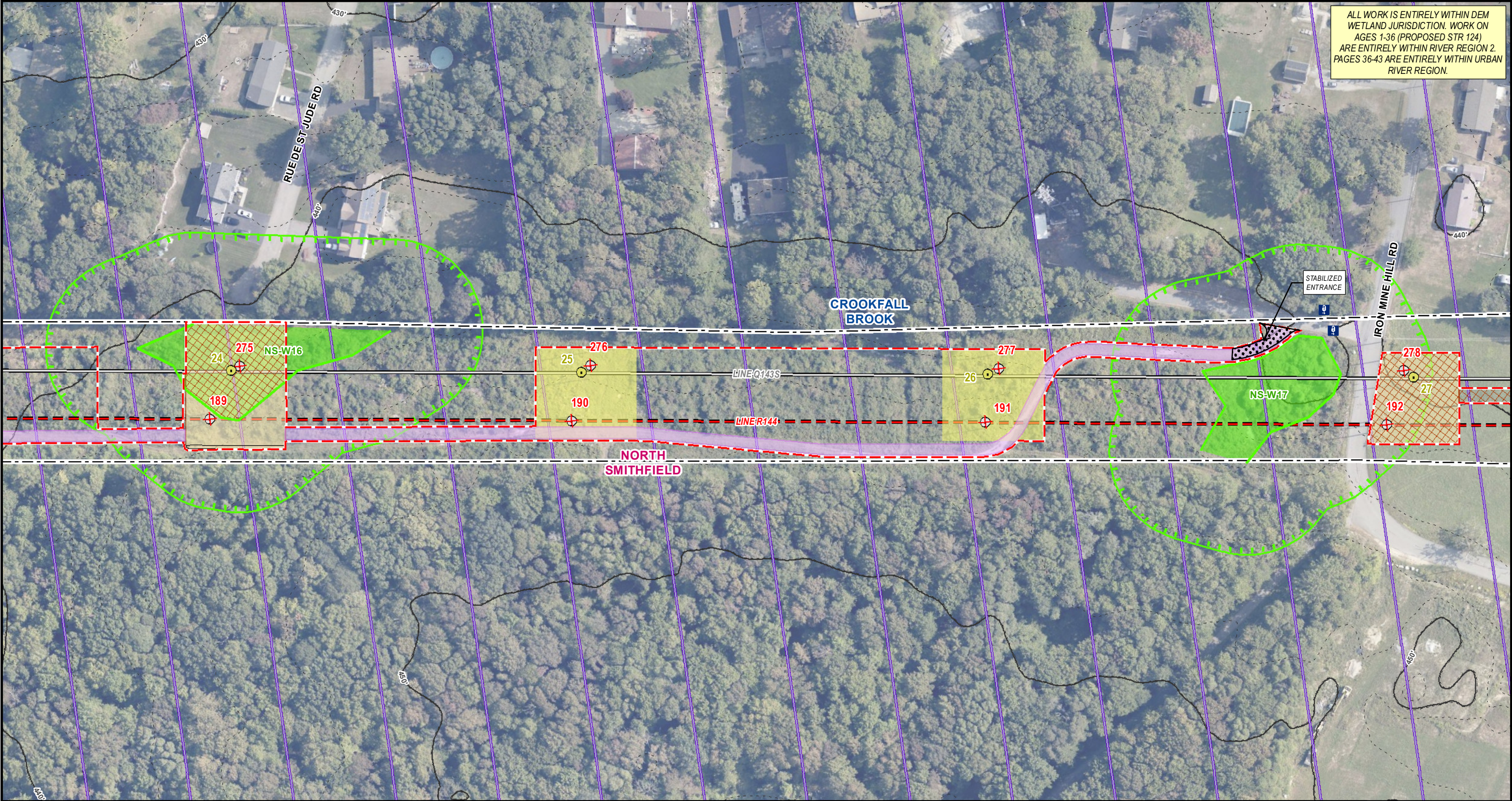
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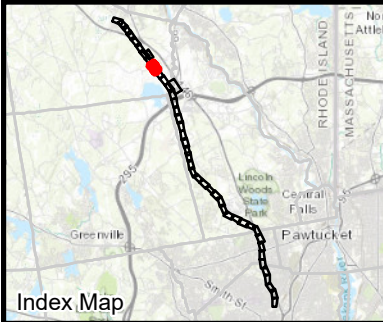
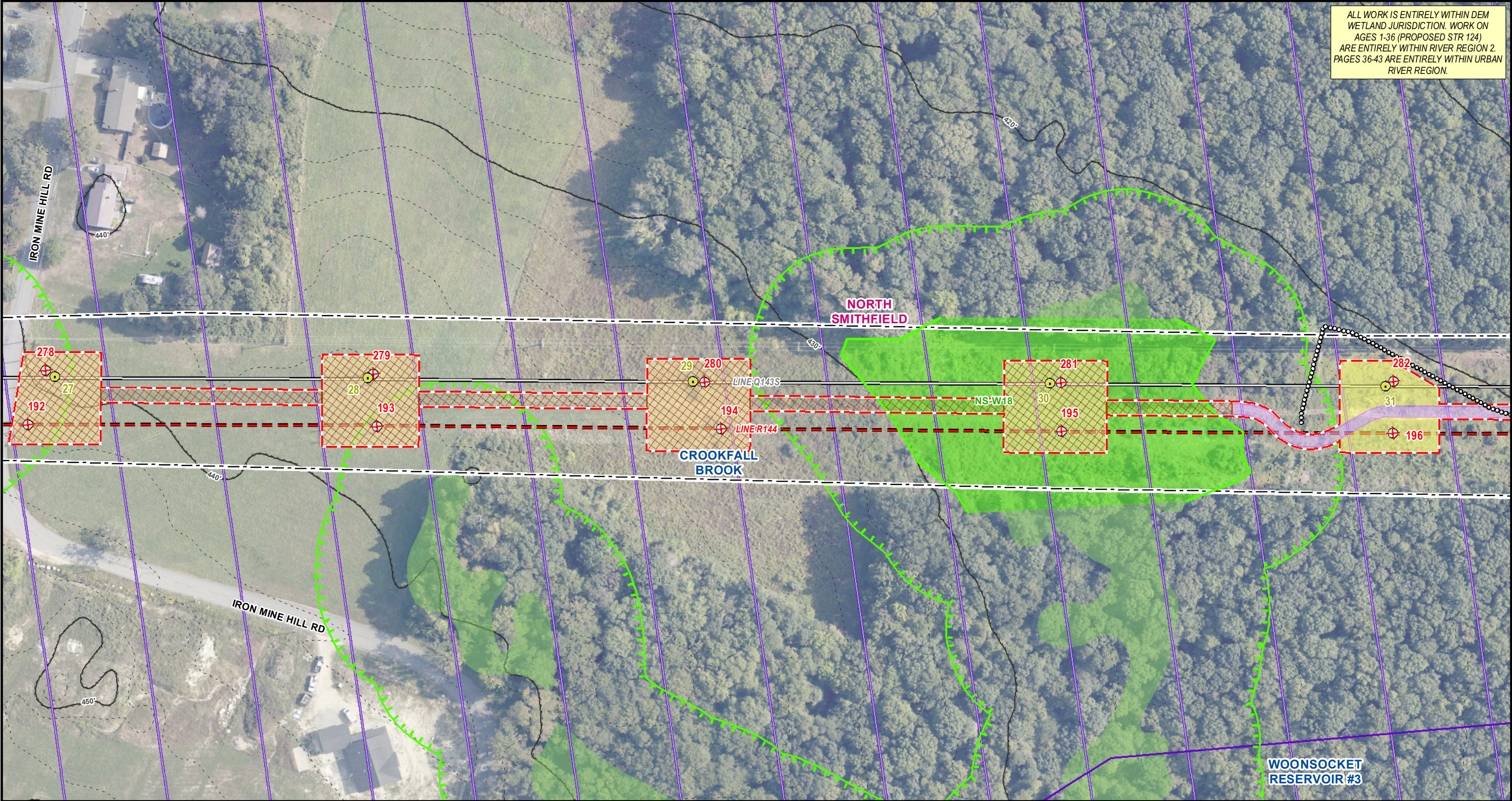
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

North Smithfield, RI
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North Arrow

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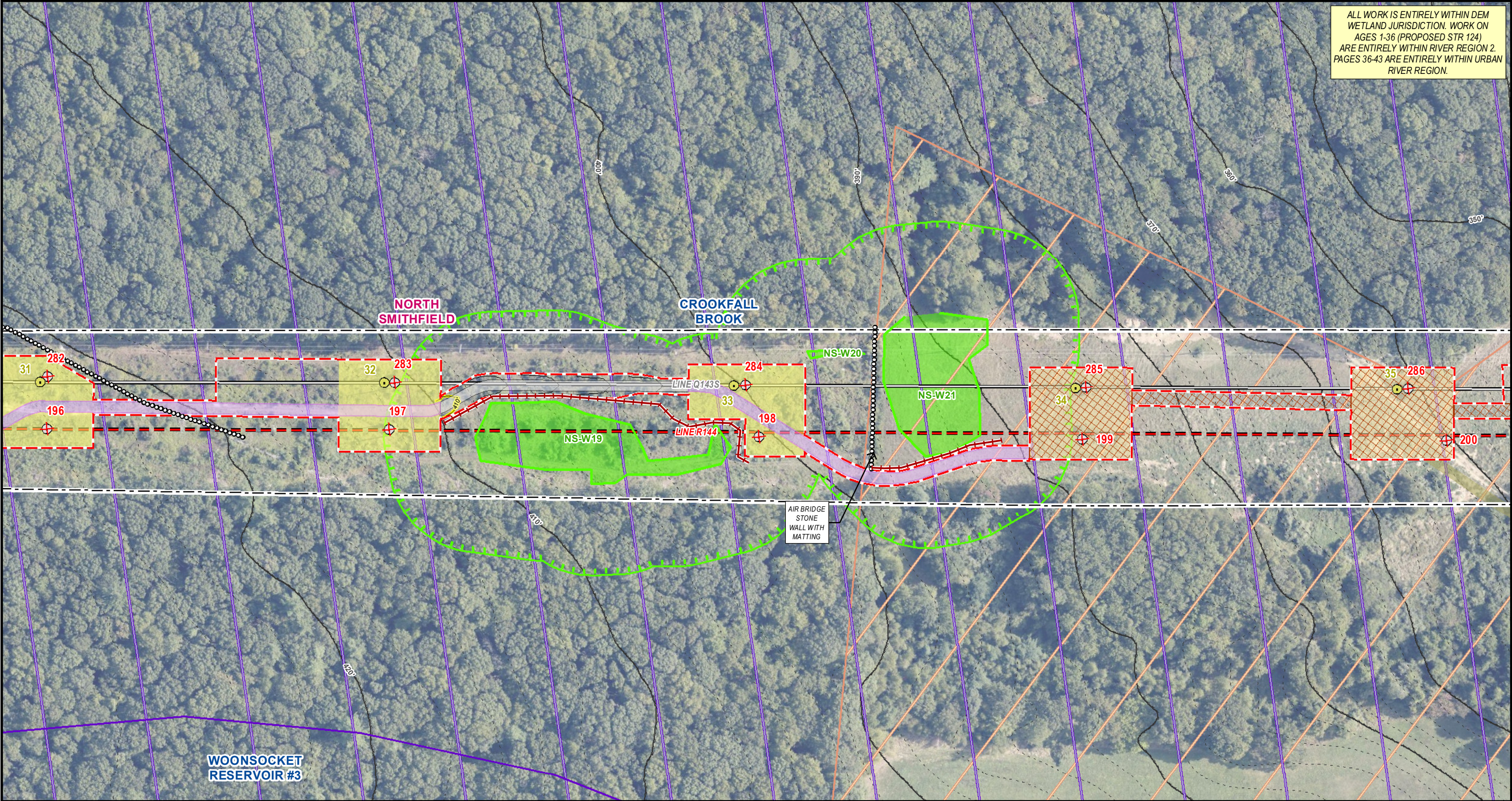
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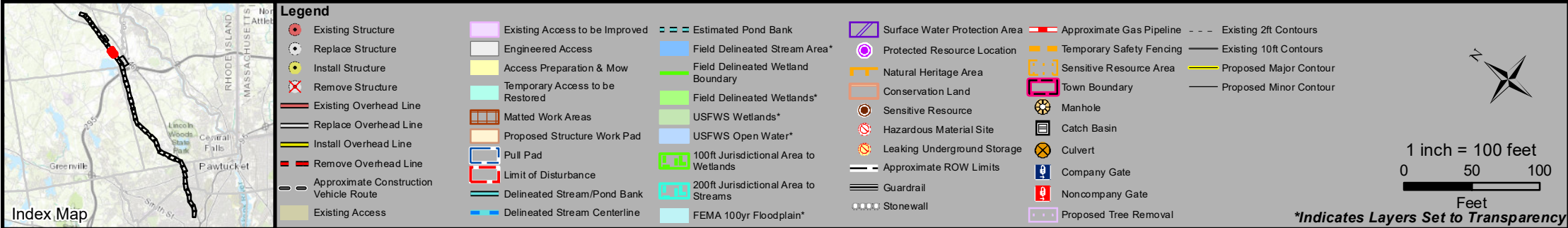
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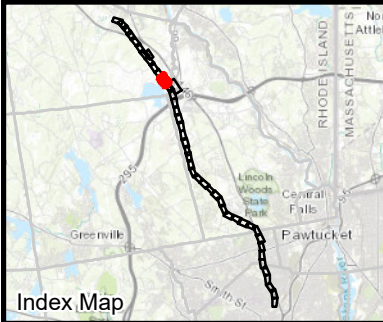
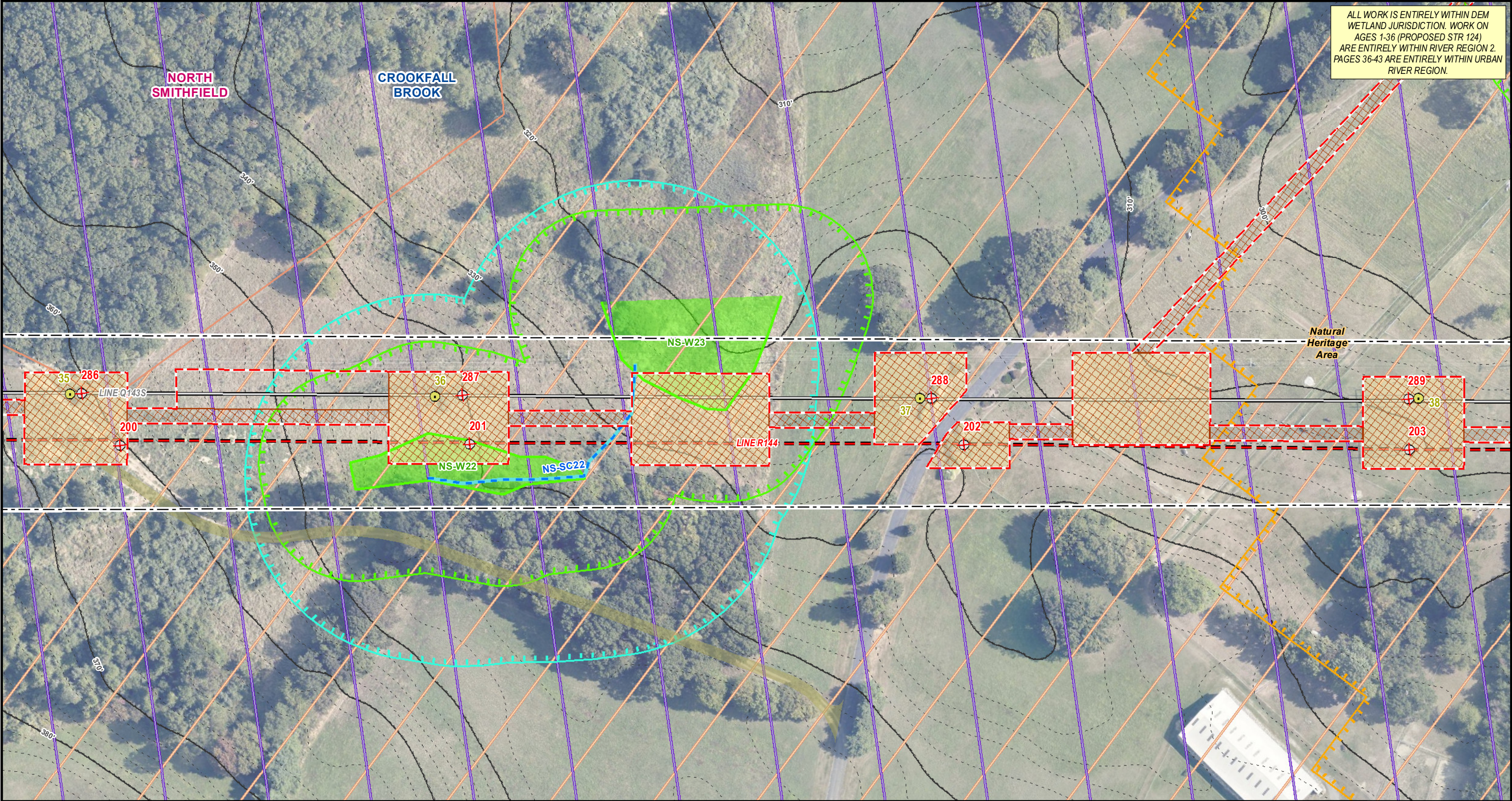
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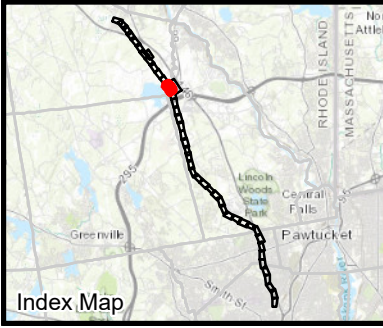
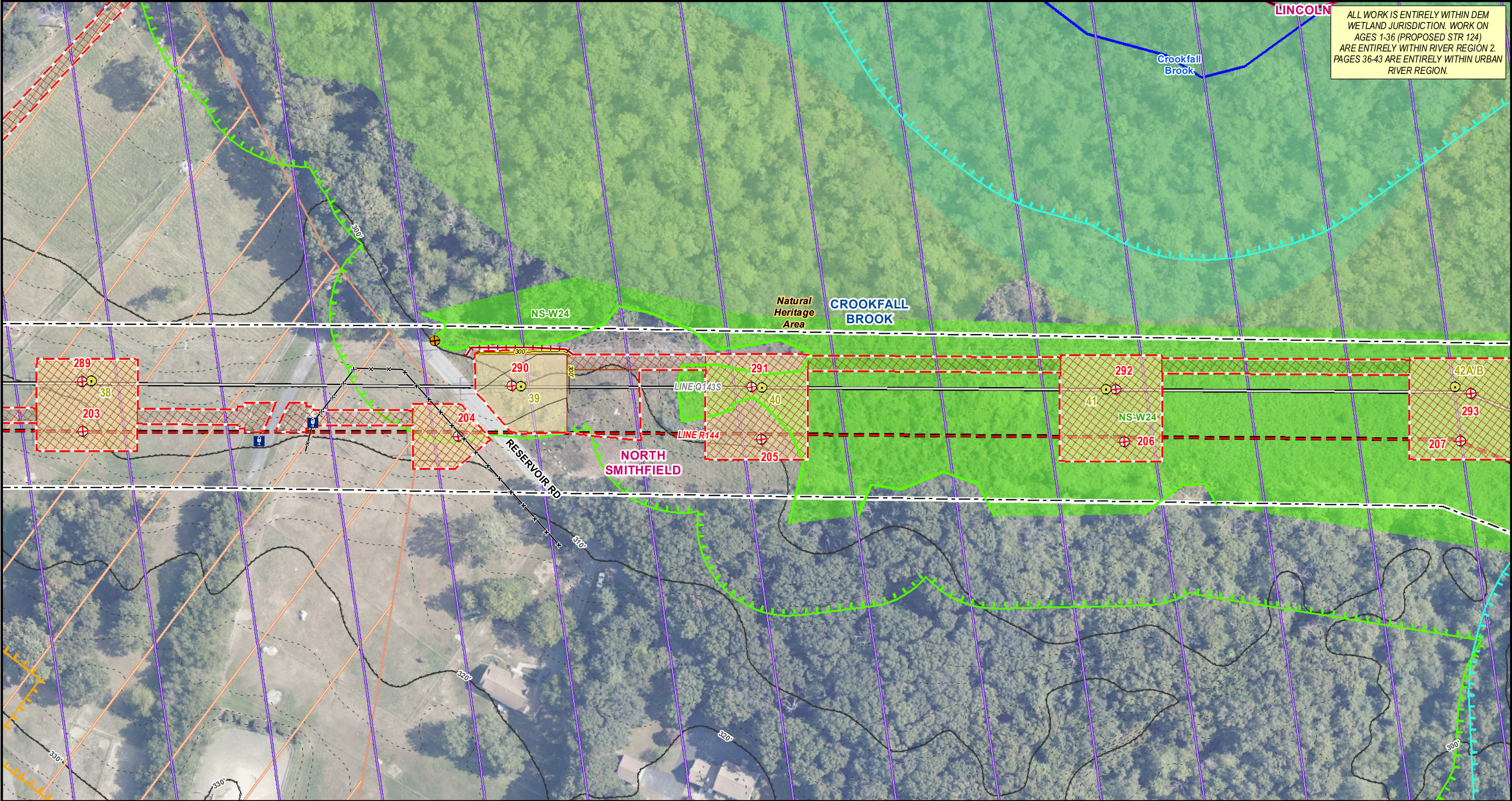
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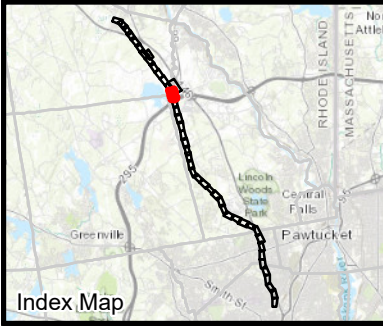
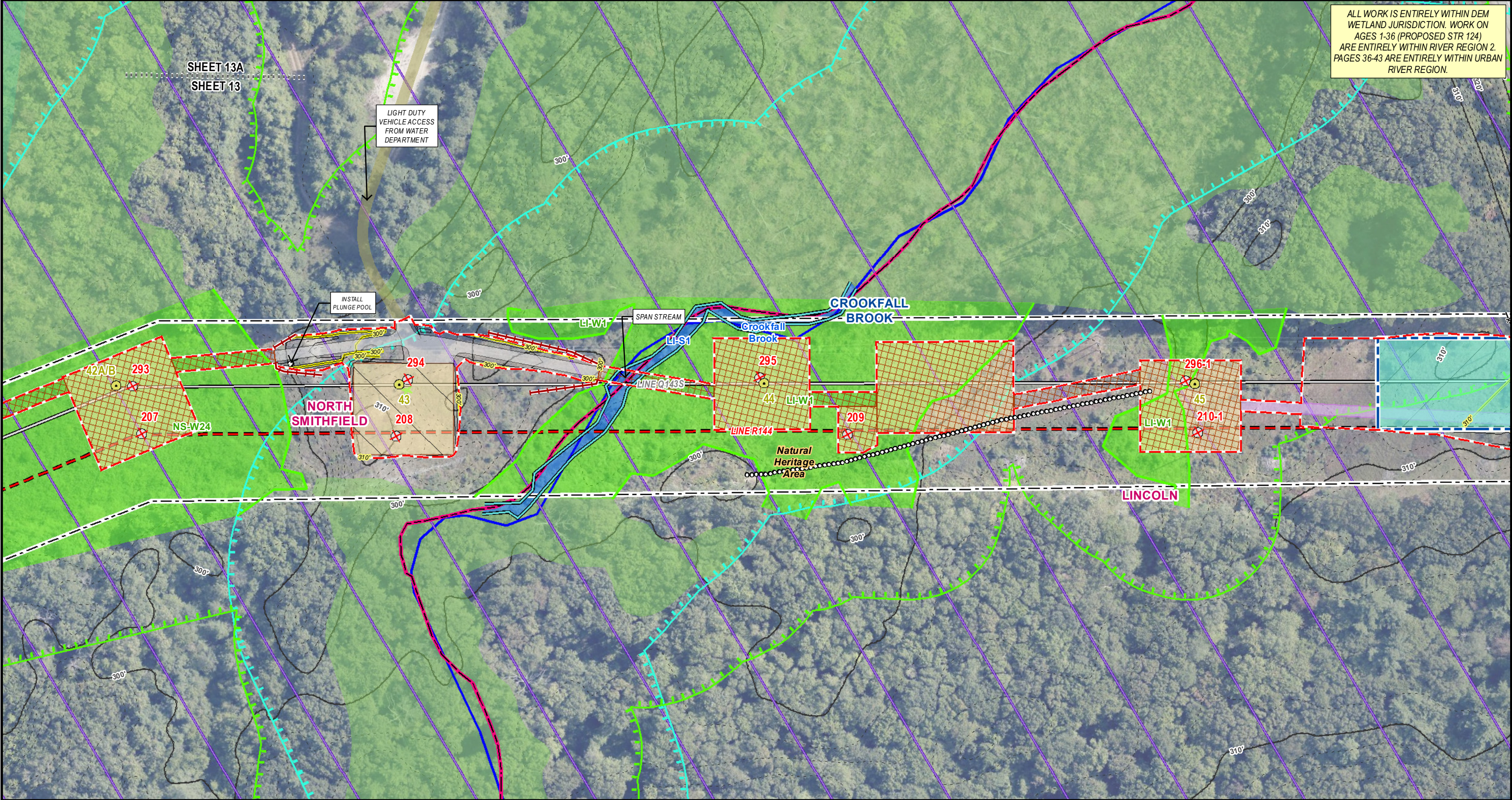
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0 50 100

Feet

**Indicates Layers Set to Transparency*

Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

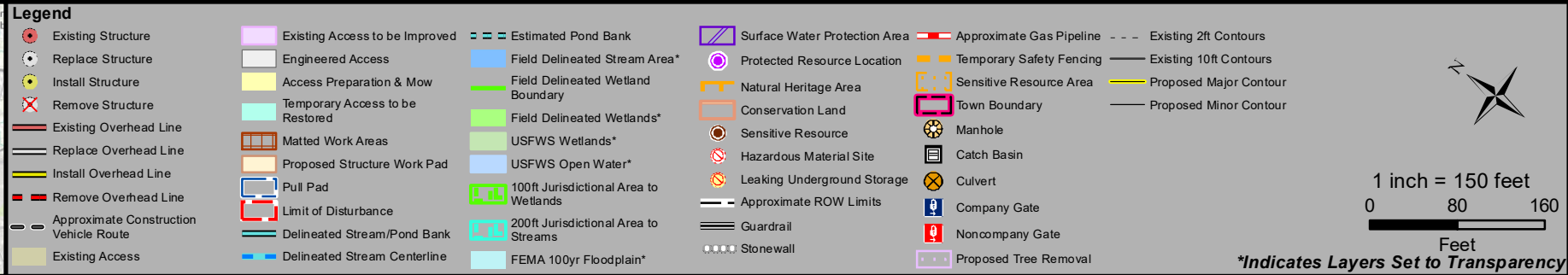
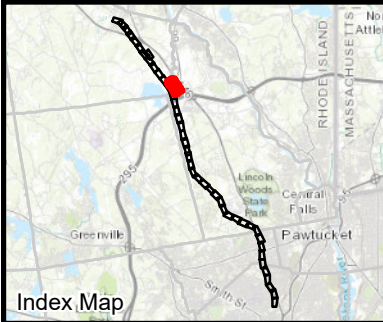
North Smithfield & Lincoln, RI

Page 13 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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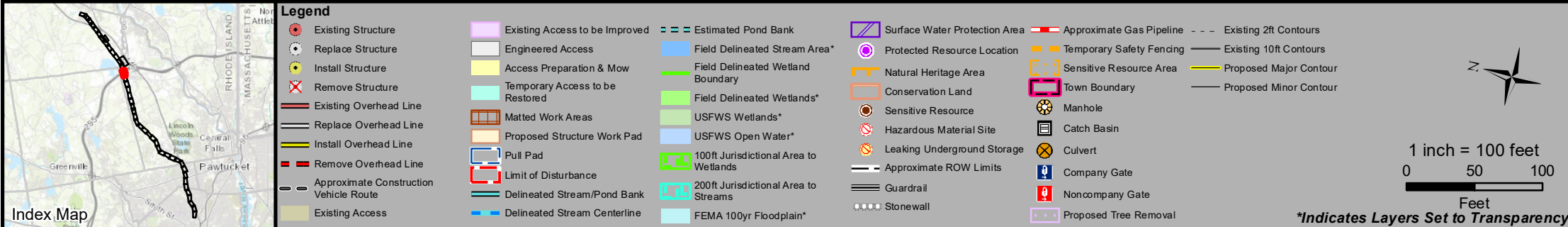
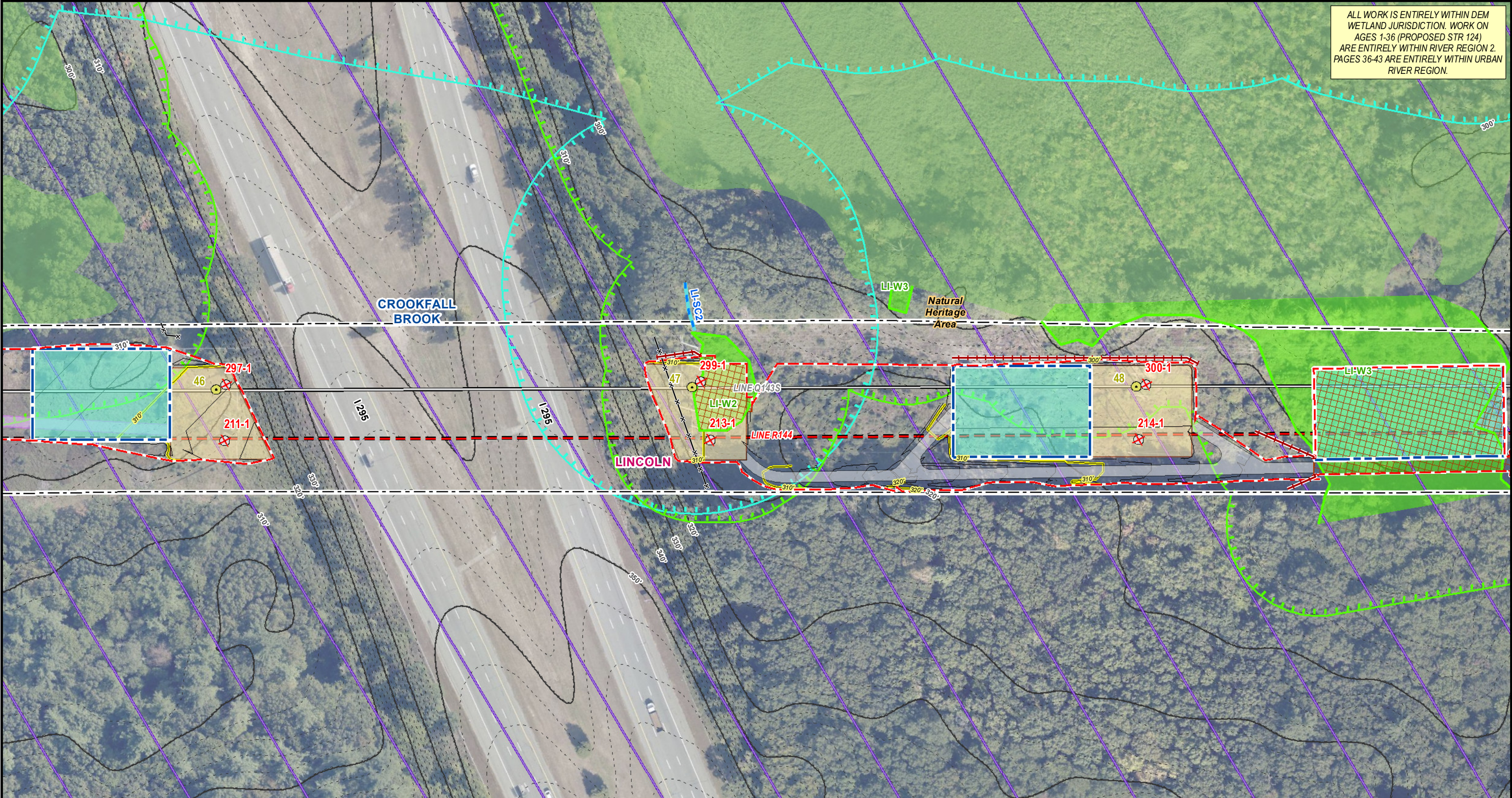
Figure 3-1 - Project Alignment Drawings

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RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



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PAGES 36-43 ARE ENTIRELY WITHIN URBAN
RIVER REGION.



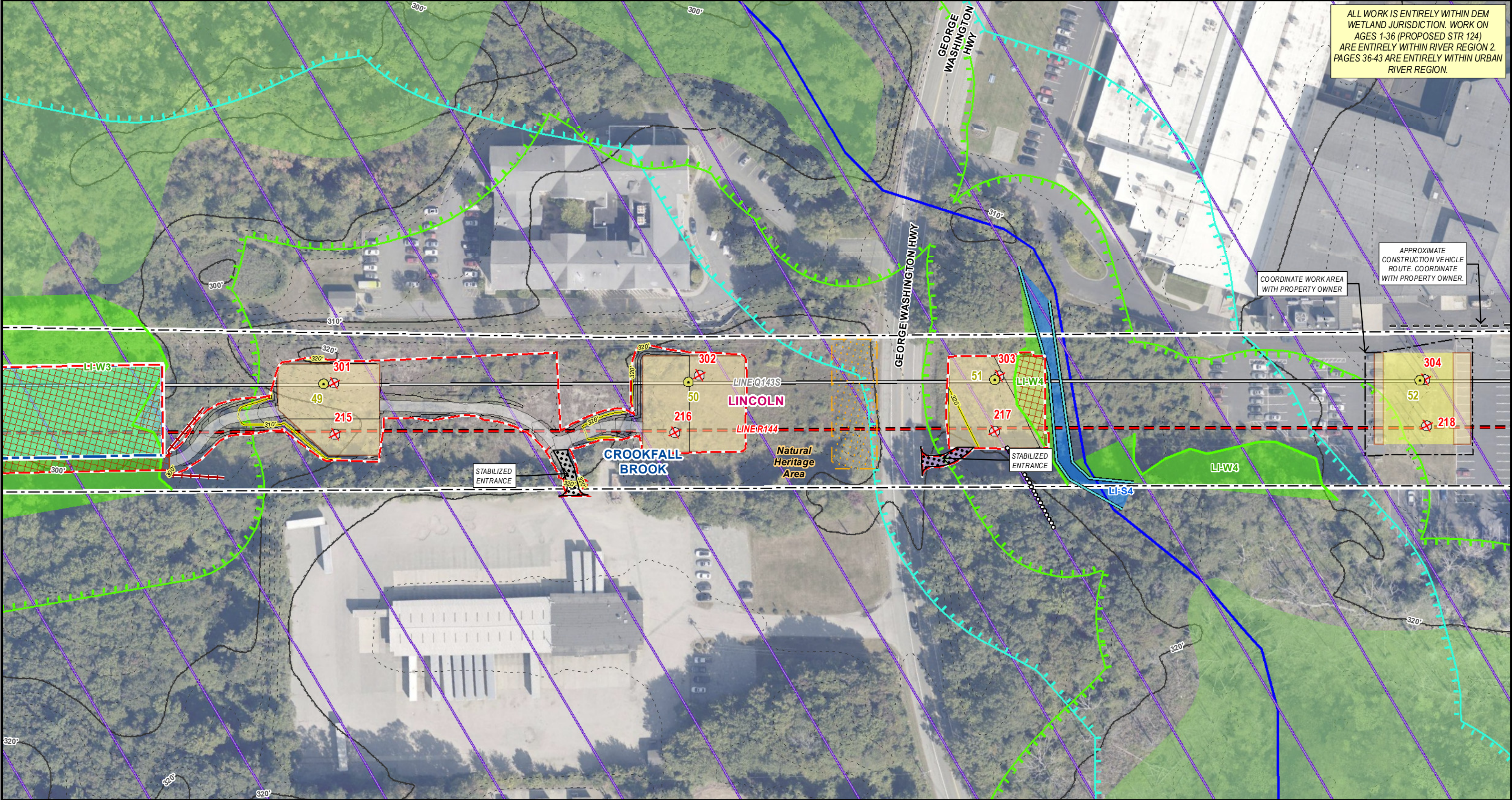
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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RIDEM
Sources: Esri, HERE, Garmin,
Intermap, increment P Corp., GEBCO,
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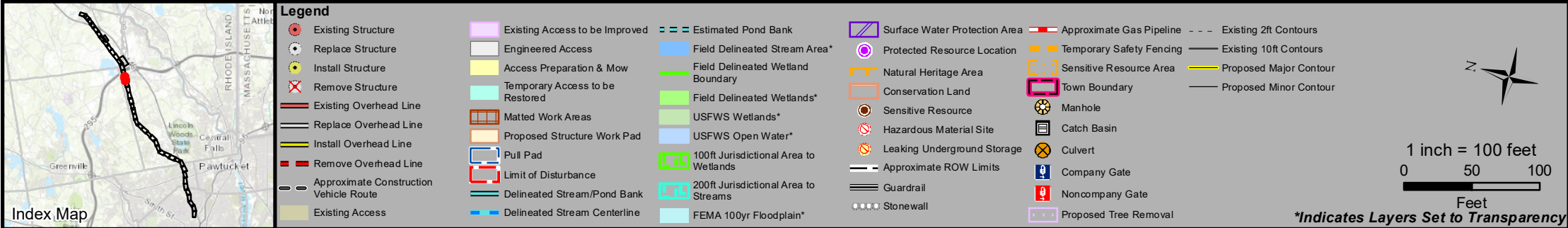




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APPROXIMATE CONSTRUCTION VEHICLE ROUTE. COORDINATE WITH PROPERTY OWNER.

COORDINATE WORK AREA WITH PROPERTY OWNER

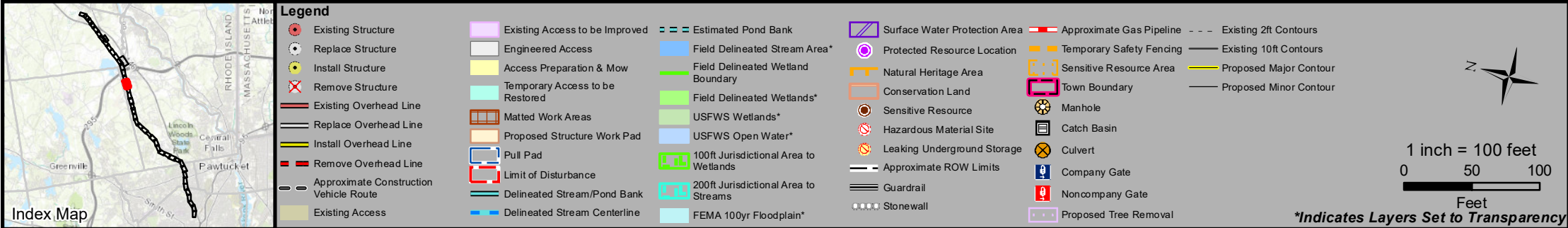
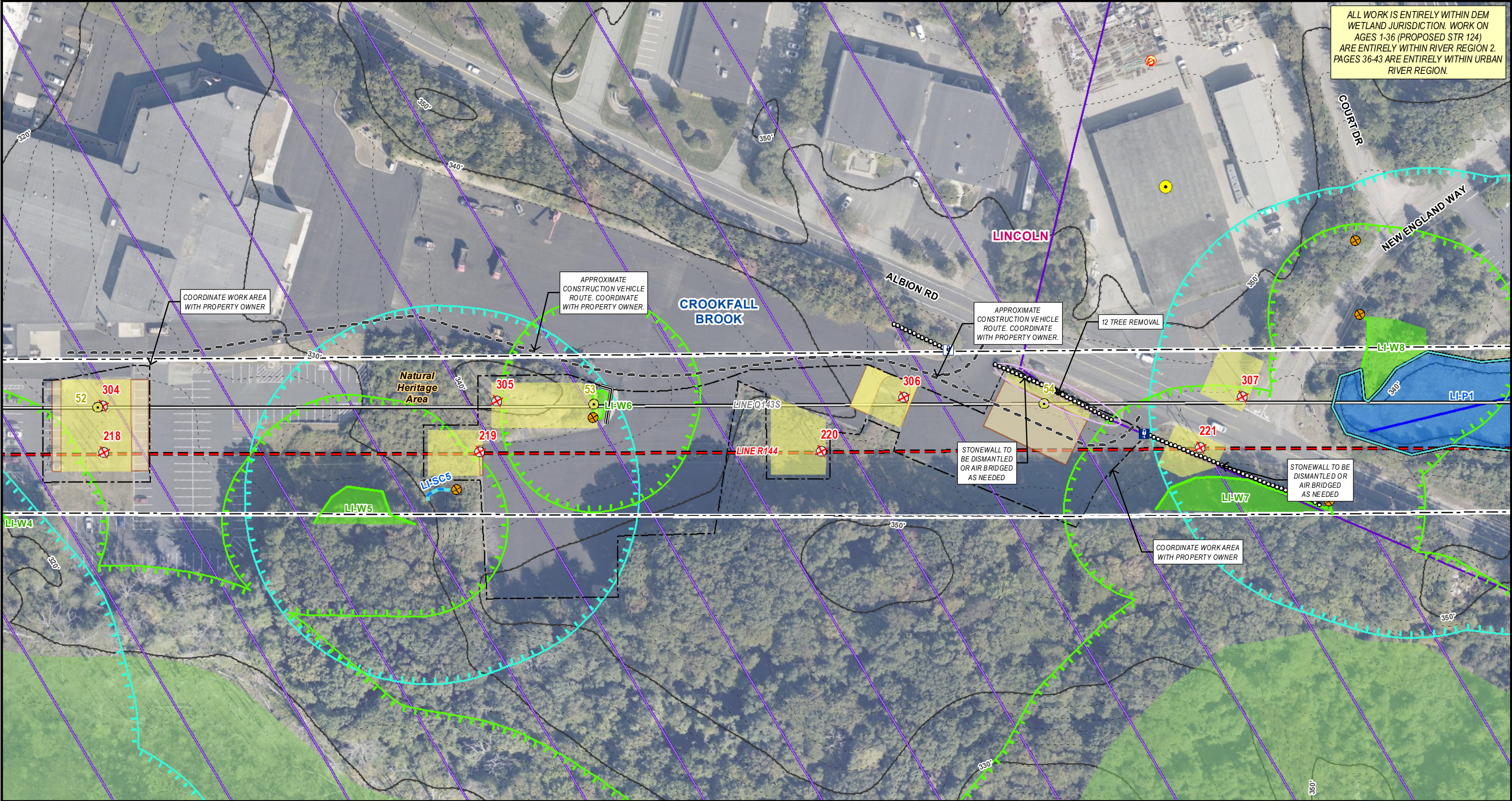


Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





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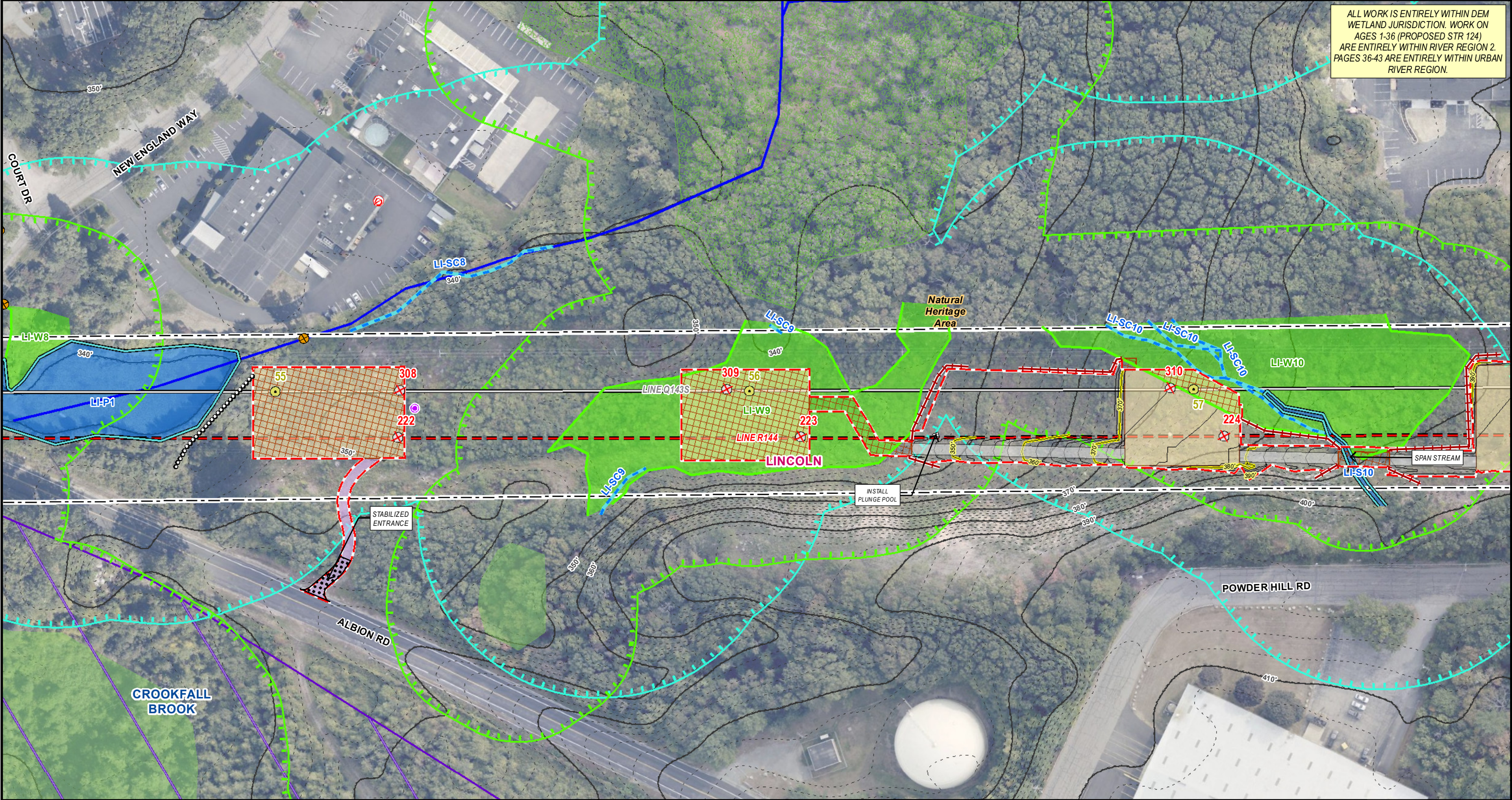
Figure 3-1 - Project Alignment Drawings

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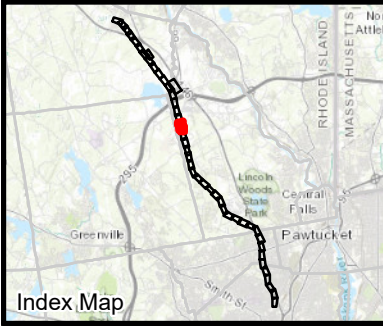
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend

Existing Structure	Existing Access to be Improved	Estimated Pond Bank	Surface Water Protection Area	Approximate Gas Pipeline	Existing 2ft Contours
Replace Structure	Engineered Access	Field Delineated Stream Area*	Protected Resource Location	Temporary Safety Fencing	Existing 10ft Contours
Install Structure	Access Preparation & Mow	Field Delineated Wetland Boundary	Natural Heritage Area	Sensitive Resource Area	Proposed Major Contour
Remove Structure	Temporary Access to be Restored	Field Delineated Wetlands*	Conservation Land	Town Boundary	Proposed Minor Contour
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Replace Overhead Line	Proposed Structure Work Pad	USFWS Open Water*	Hazardous Material Site	Catch Basin	
Install Overhead Line	Pull Pad	200ft Jurisdictional Area to Wetlands	Leaking Underground Storage	Company Gate	
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Approximate Construction Vehicle Route	Delineated Stream/Pond Bank	FEMA 100yr Floodplain*	Guardrail	Proposed Tree Removal	
Existing Access	Delineated Stream Centerline		Stonewall		

1 inch = 100 feet

0 50 100

Feet

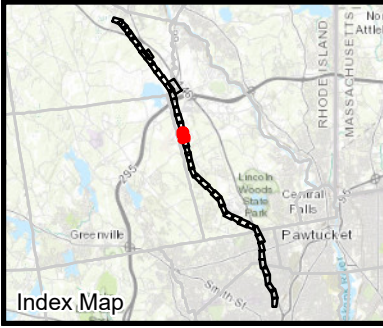
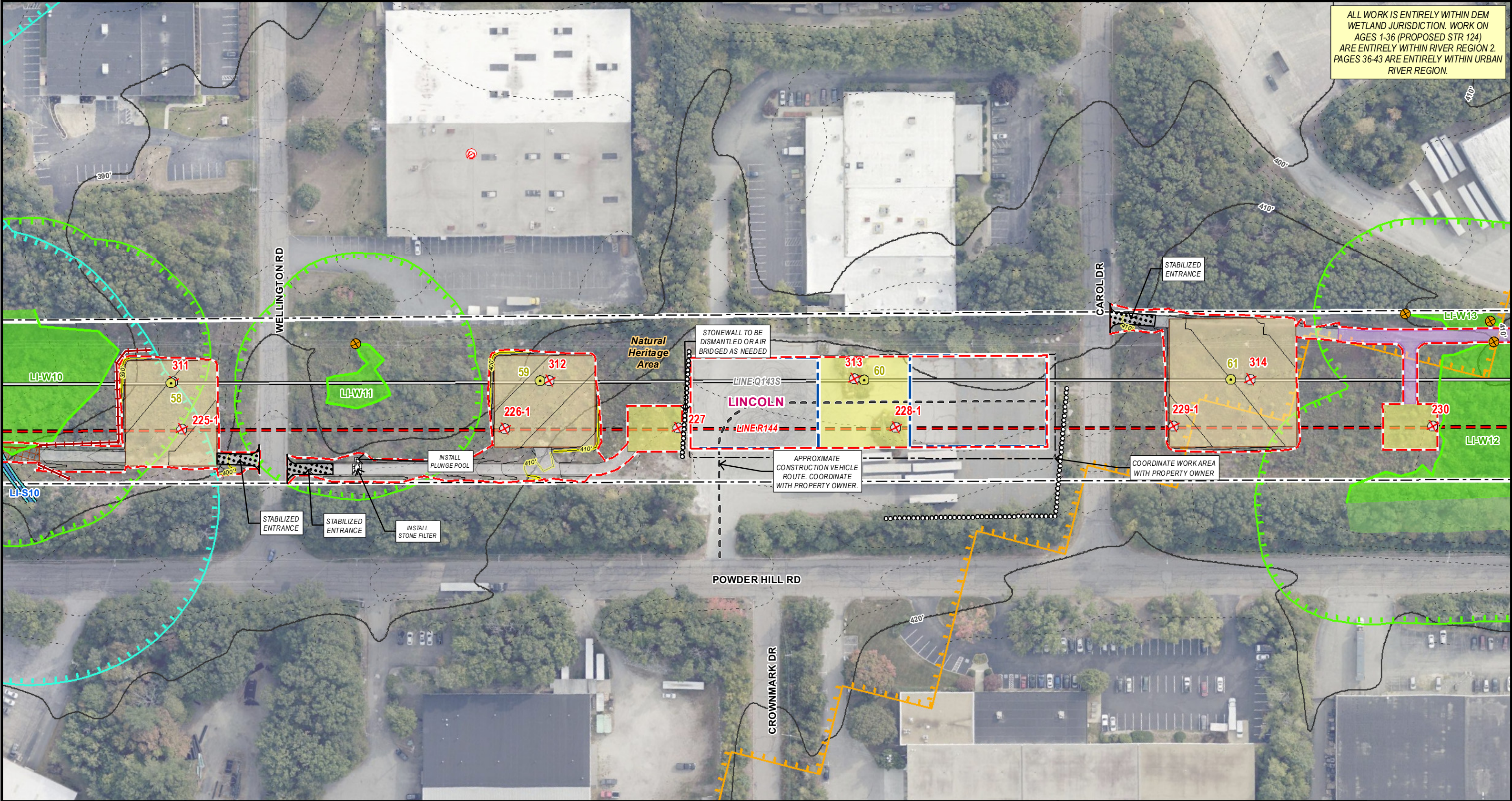
*Indicates Layers Set to Transparency

Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





Legend

<ul style="list-style-type: none">Existing StructureReplace StructureInstall StructureRemove StructureExisting Overhead LineReplace Overhead LineInstall Overhead LineRemove Overhead LineApproximate Construction Vehicle RouteExisting Access	<ul style="list-style-type: none">Existing Access to be ImprovedEngineered AccessAccess Preparation & MowTemporary Access to be RestoredMatted Work AreasProposed Structure Work PadPull PadLimit of DisturbanceDelineated Stream/Pond BankDelineated Stream Centerline	<ul style="list-style-type: none">Estimated Pond BankField Delineated Stream Area*Field Delineated Wetland BoundaryField Delineated Wetlands*USFWS Wetlands*USFWS Open Water*100ft Jurisdictional Area to Wetlands200ft Jurisdictional Area to StreamsFEMA 100yr Floodplain*	<ul style="list-style-type: none">Surface Water Protection AreaProtected Resource LocationNatural Heritage AreaConservation LandSensitive ResourceHazardous Material SiteLeaking Underground StorageApproximate ROW LimitsGuardrailStonewall	<ul style="list-style-type: none">Approximate Gas PipelineTemporary Safety FencingSensitive Resource AreaTown BoundaryManholeCatch BasinCompany GateNoncompany GateProposed Tree Removal	<ul style="list-style-type: none">Existing 2ft ContoursExisting 10ft ContoursProposed Major ContourProposed Minor Contour
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1 inch = 100 feet
0 50 100 Feet

**Indicates Layers Set to Transparency*

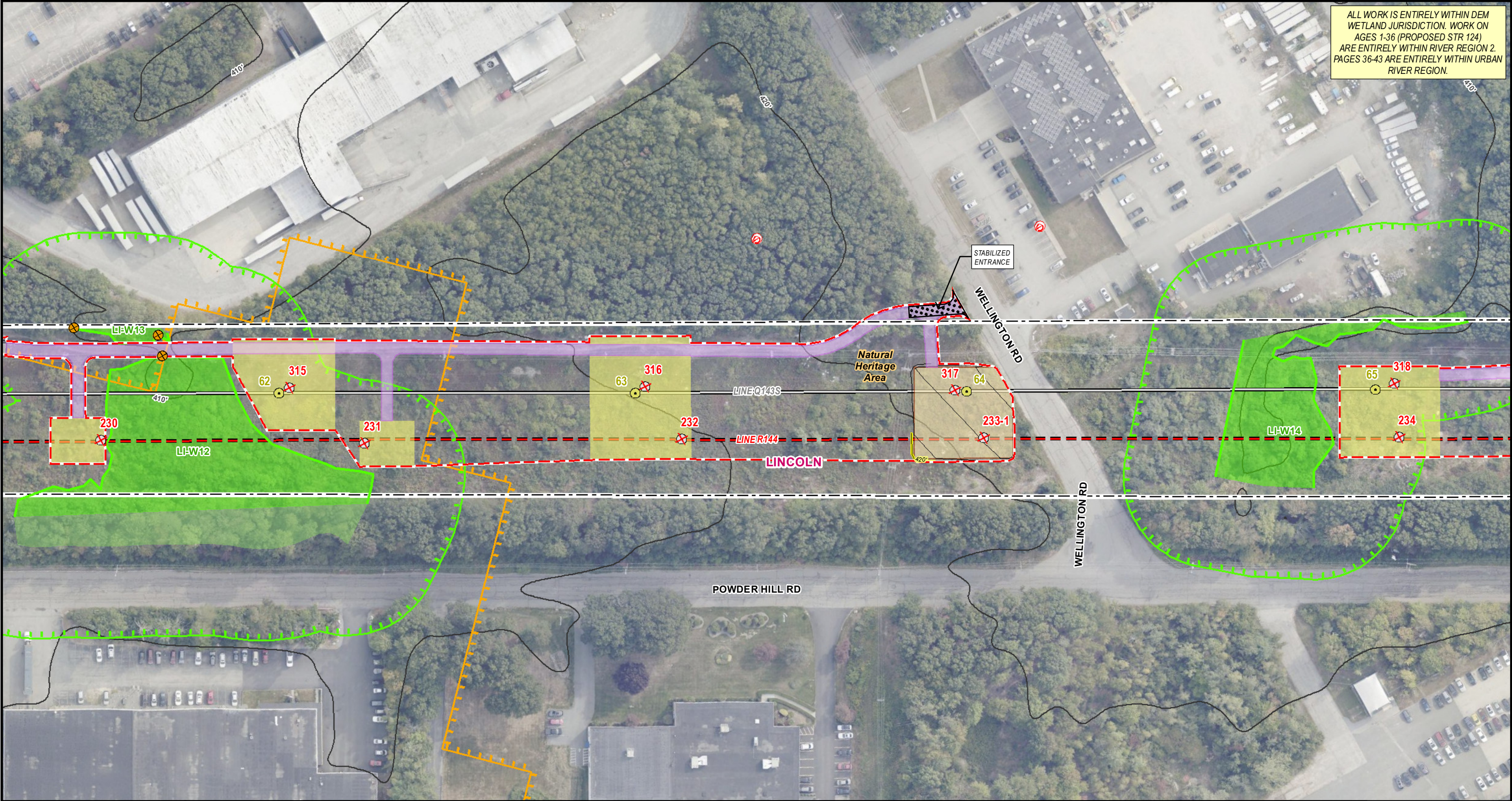
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

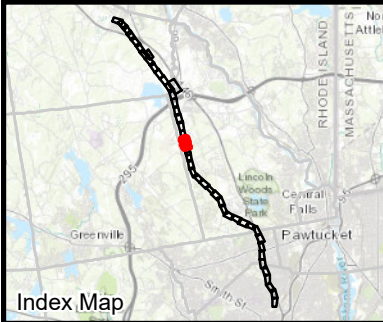
Lincoln, RI
Page 18 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend

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Replace Structure	Engineered Access	Field Delineated Stream Area*	Protected Resource Location	Temporary Safety Fencing	Existing 10ft Contours
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Existing Access	Delineated Stream Centerline		Stonewall		

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0 50 100

Feet

**Indicates Layers Set to Transparency*

Q143/R144 LINES REBUILD PROJECT

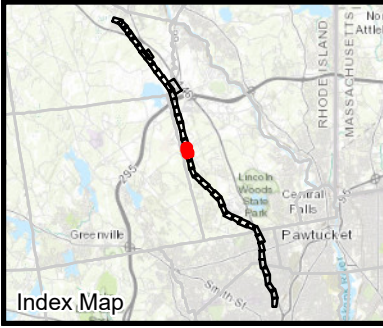
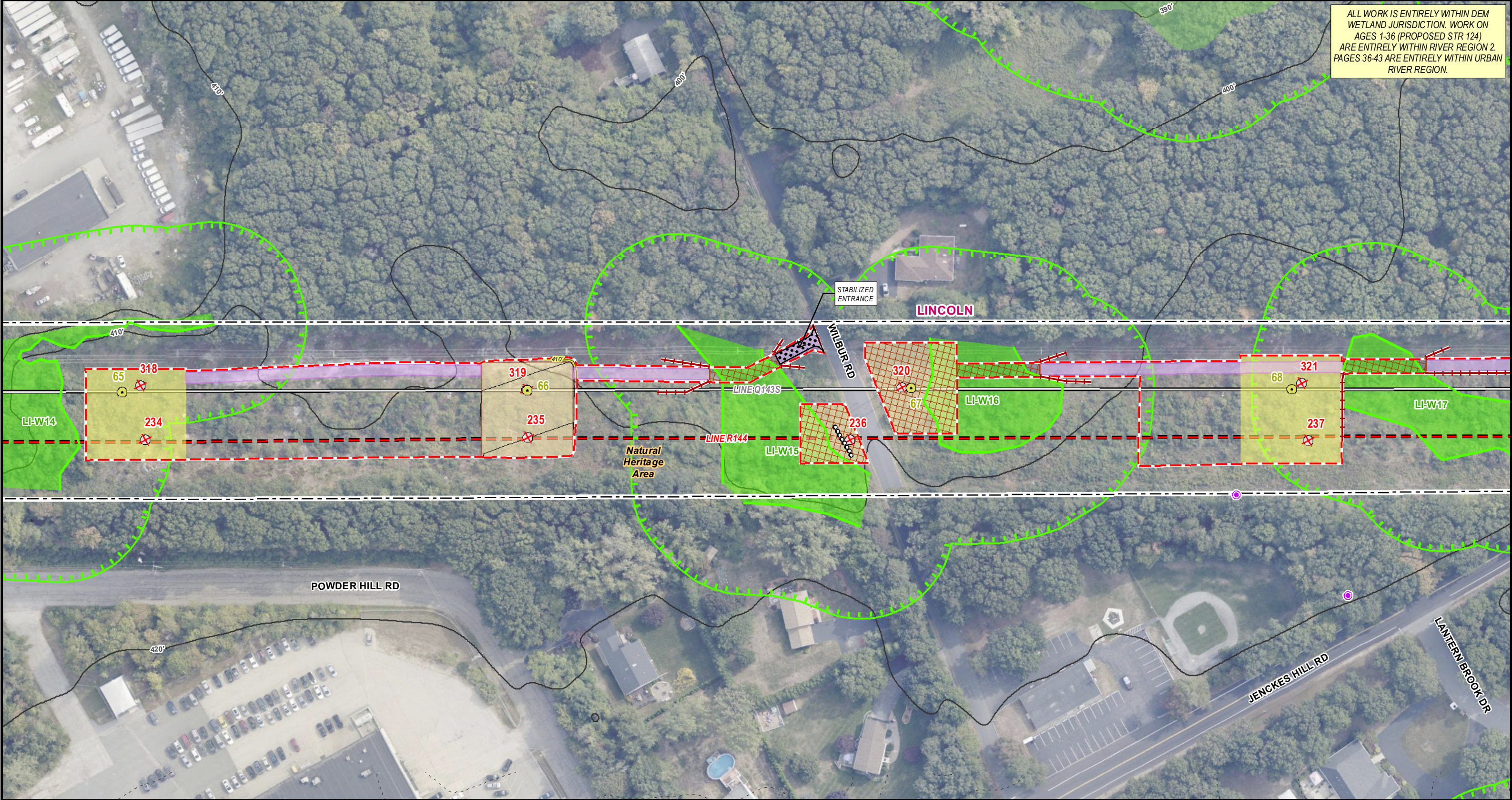
Figure 3-1 - Project Alignment Drawings

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Page 19 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend

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1 inch = 100 feet
0 50 100
Feet

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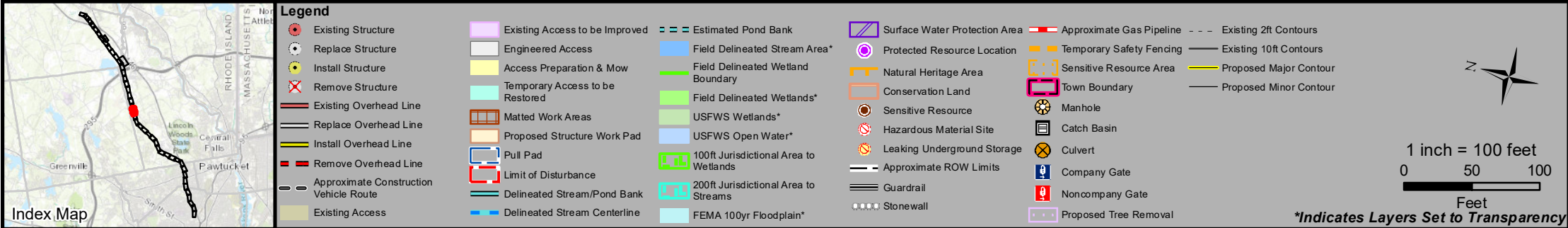
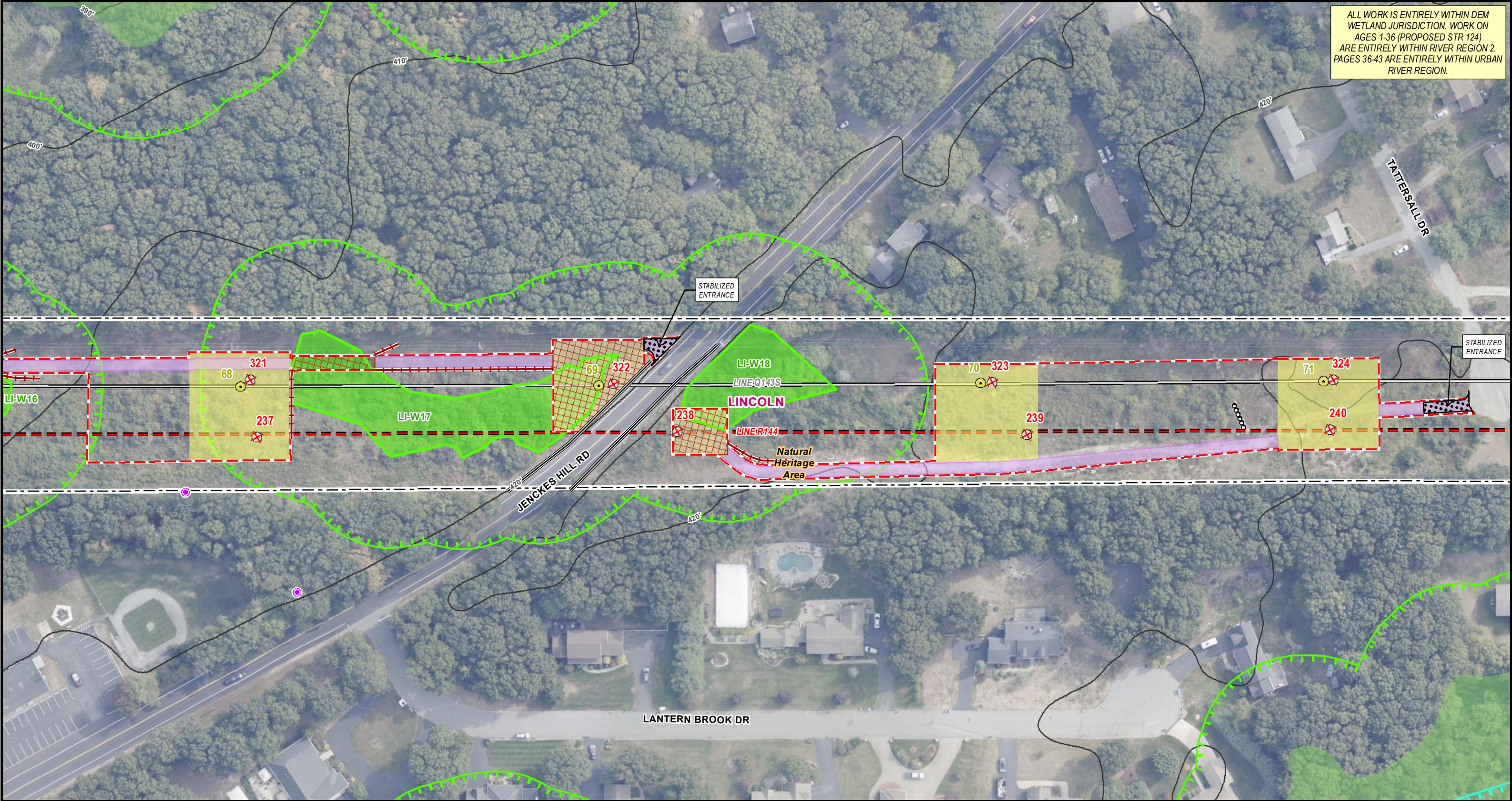
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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Page 20 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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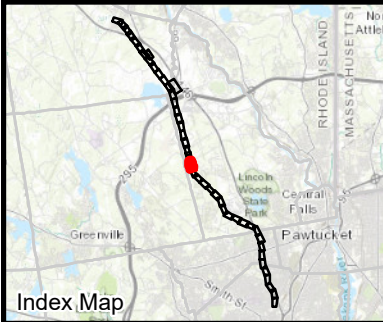
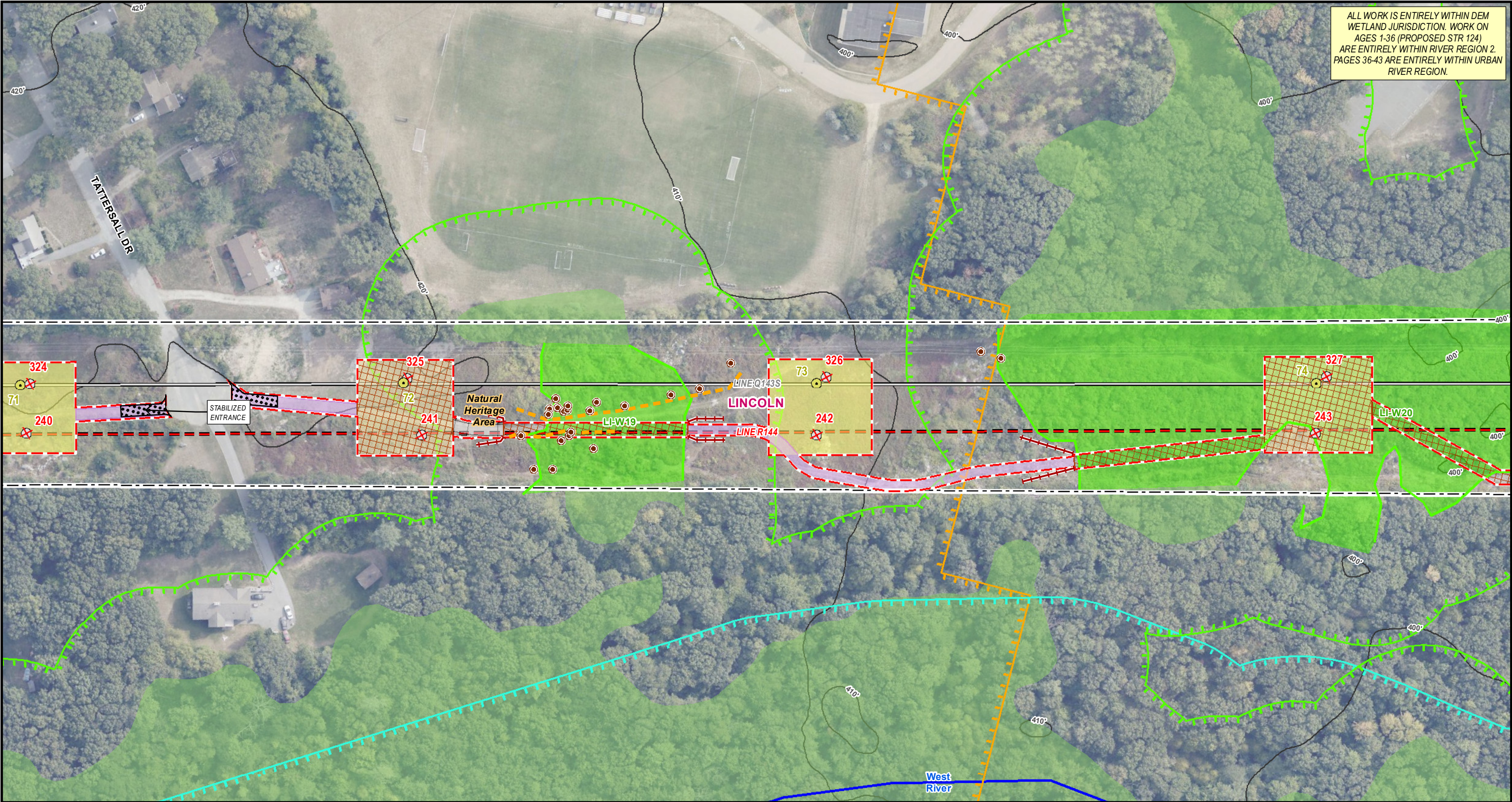
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 21 of 43

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Legend

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Existing Access	Delineated Stream Centerline		Stonewall	Proposed Tree Removal	

Scale: 1 inch = 100 feet
0 50 100 Feet

North Arrow

**Indicates Layers Set to Transparency*

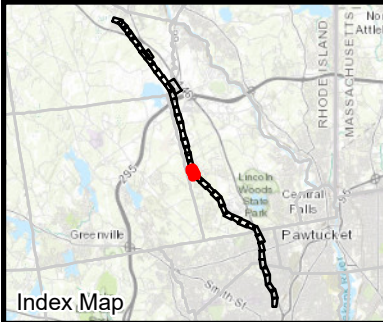
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 22 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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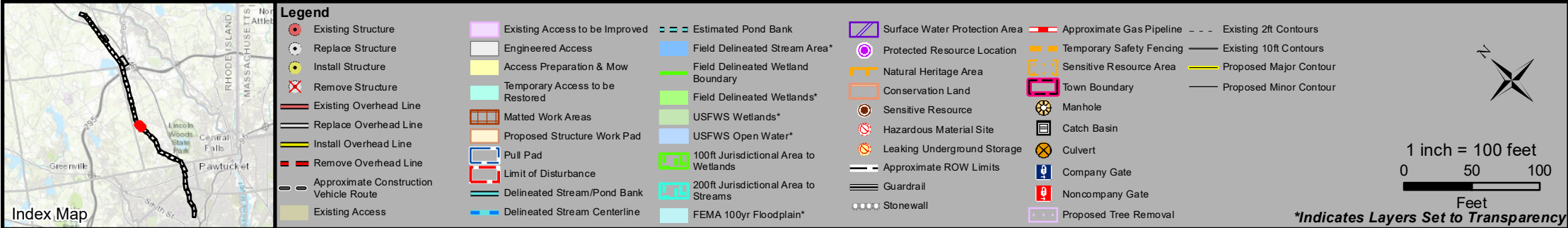
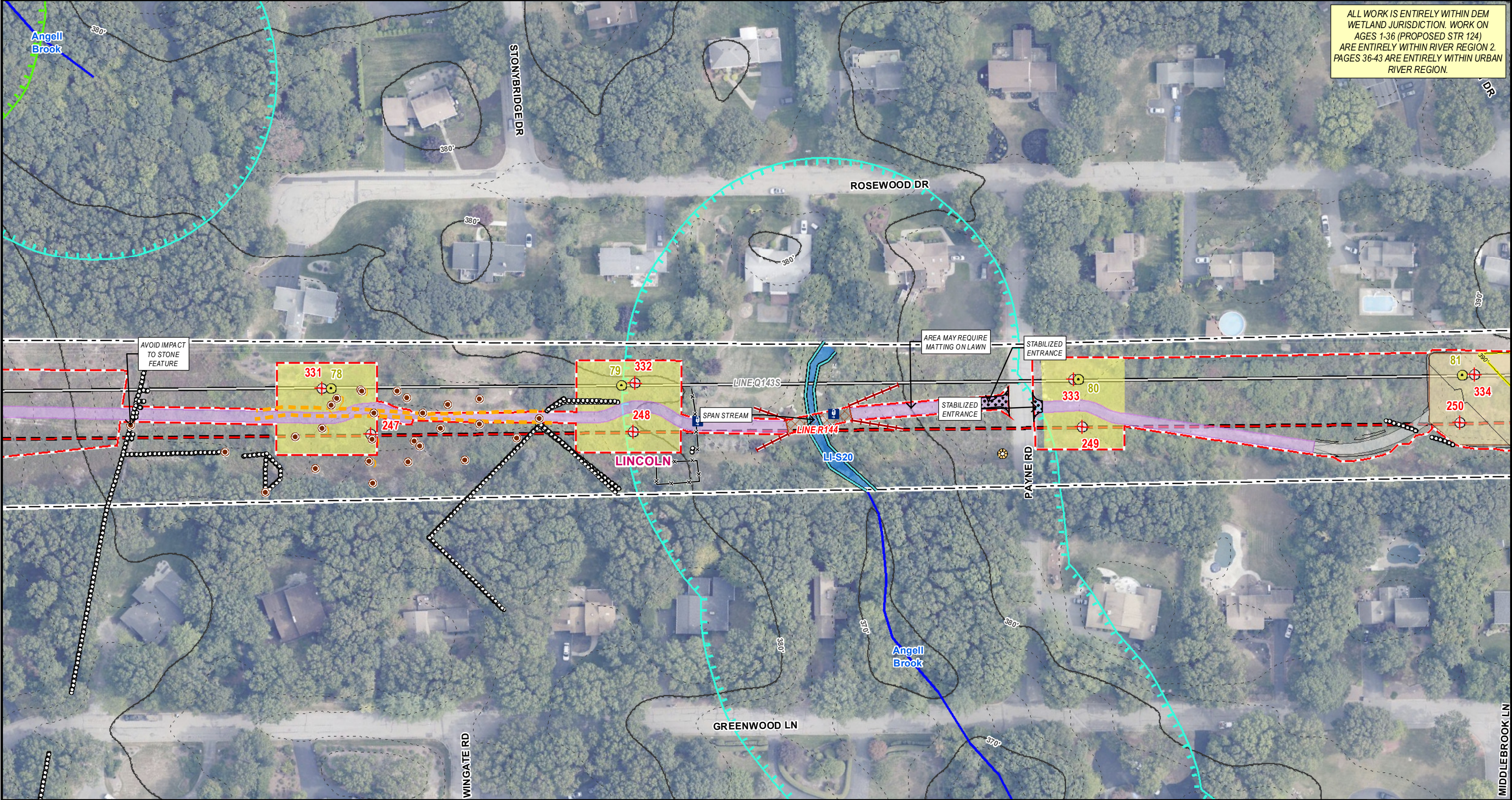
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 23 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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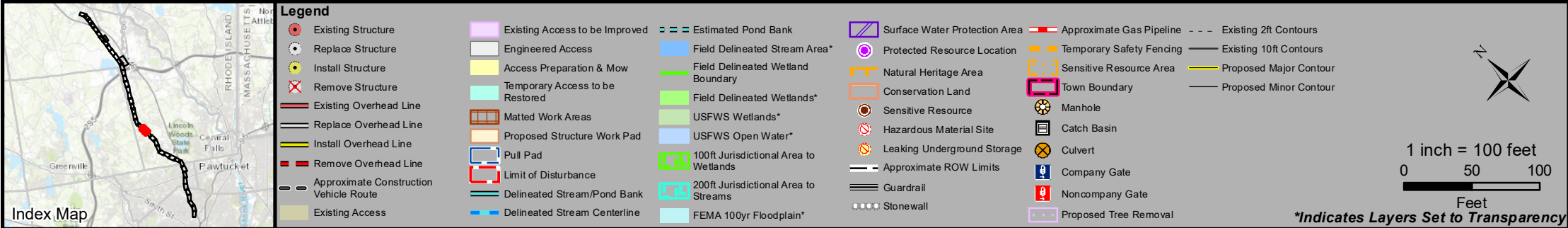
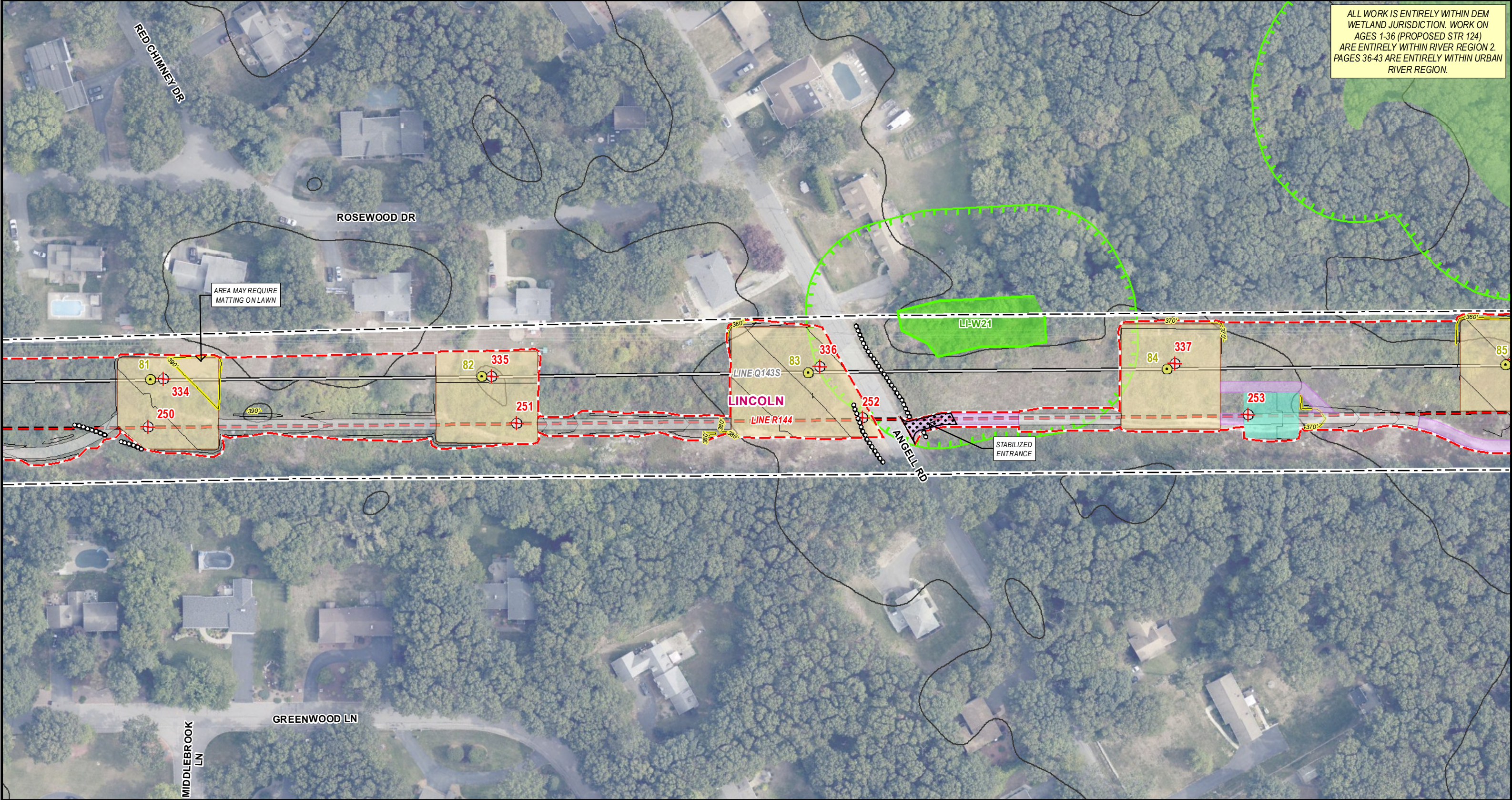
Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 24 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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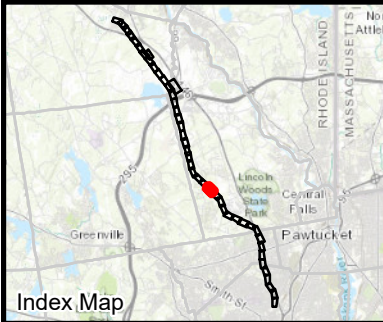
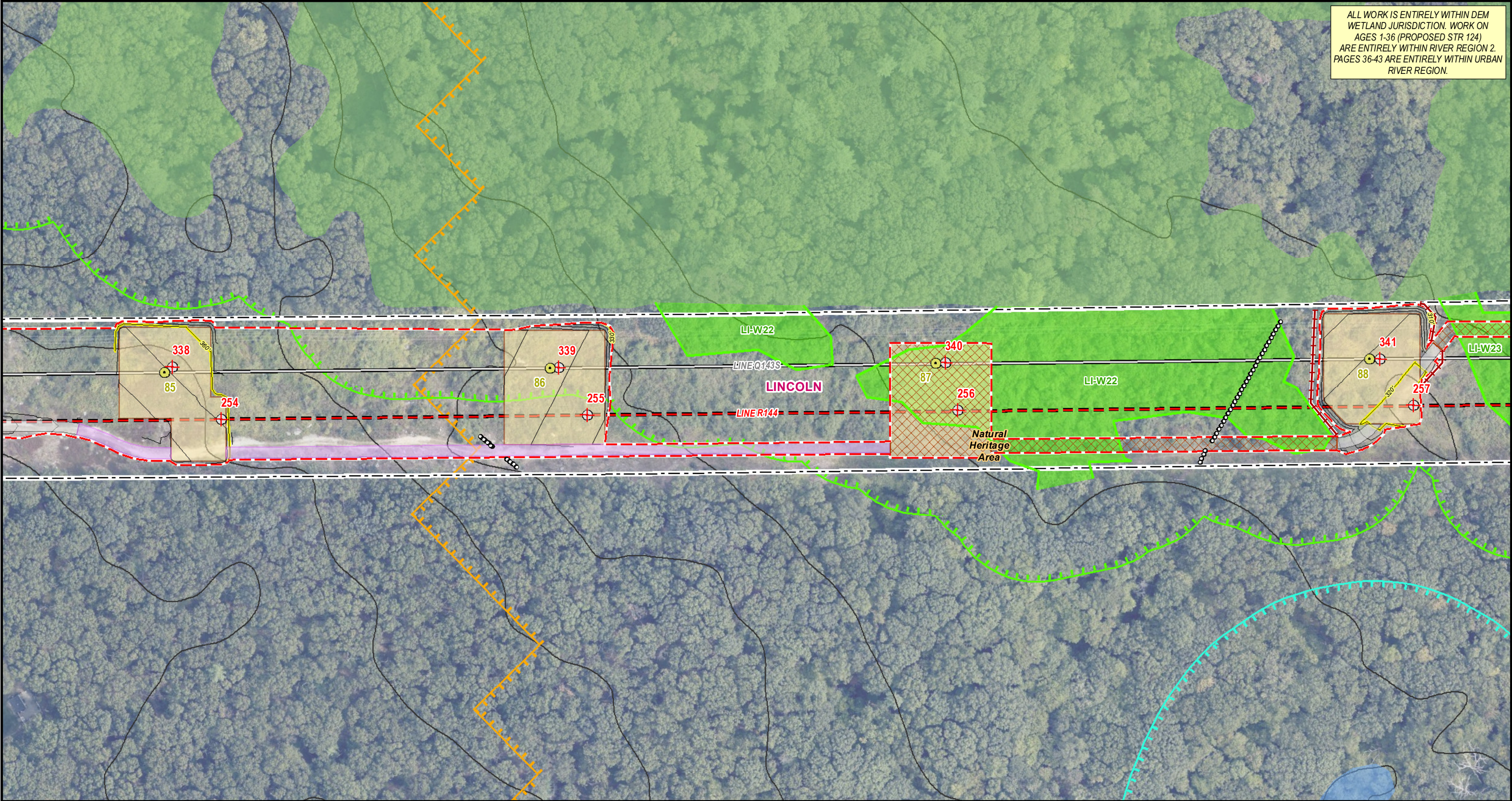
Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 25 of 43

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Legend

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0 50 100

Feet

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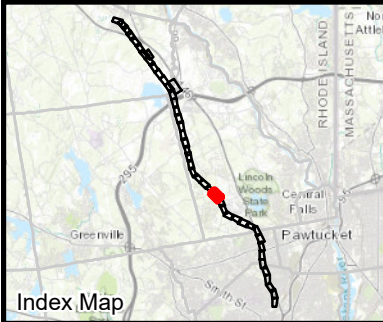
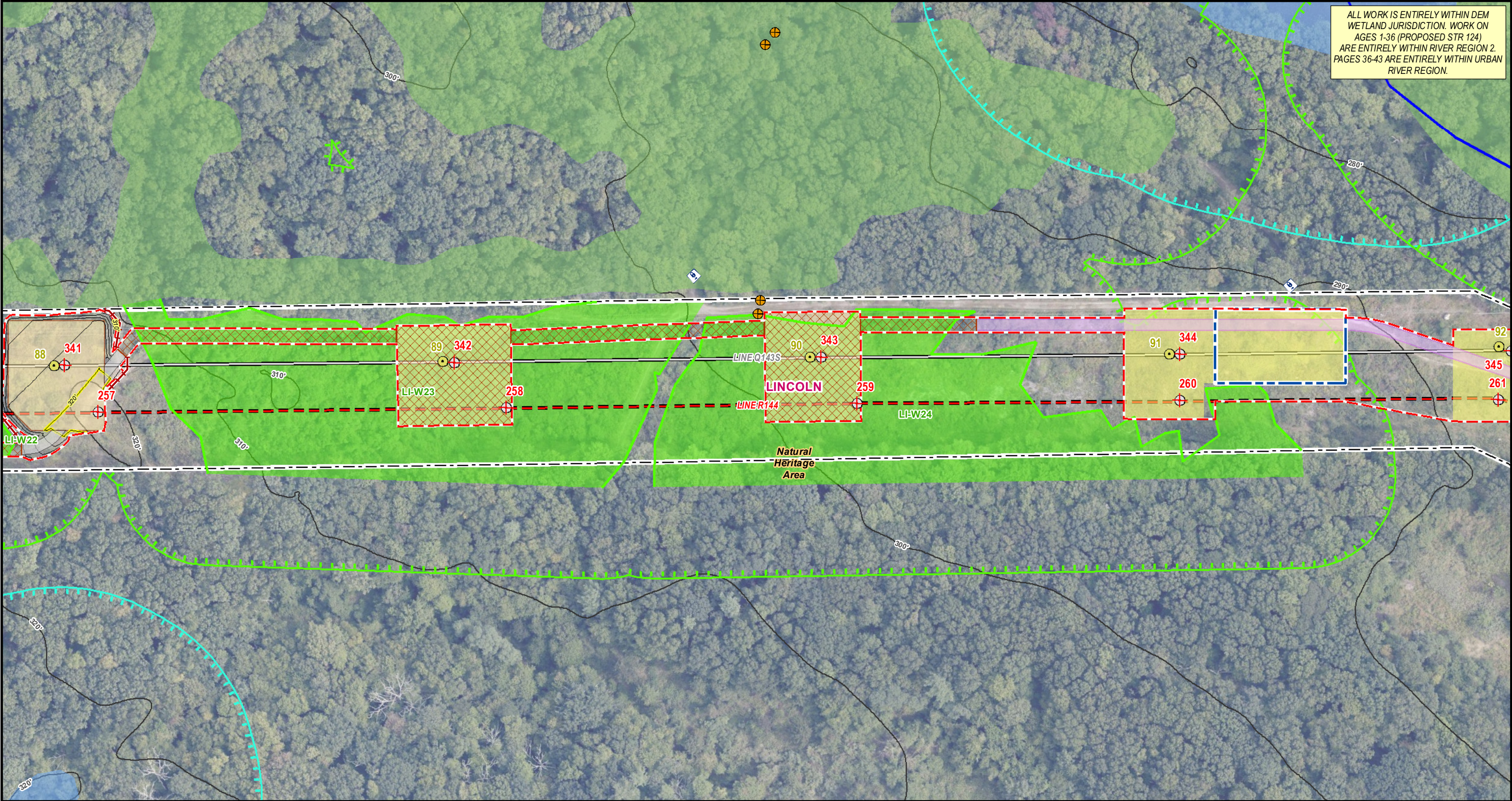
**Q143/R144 LINES REBUILD
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Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 26 of 43

RIDEM
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Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 27 of 43

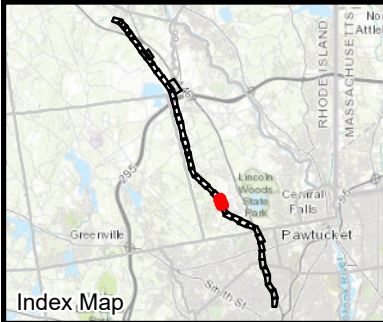
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Feet

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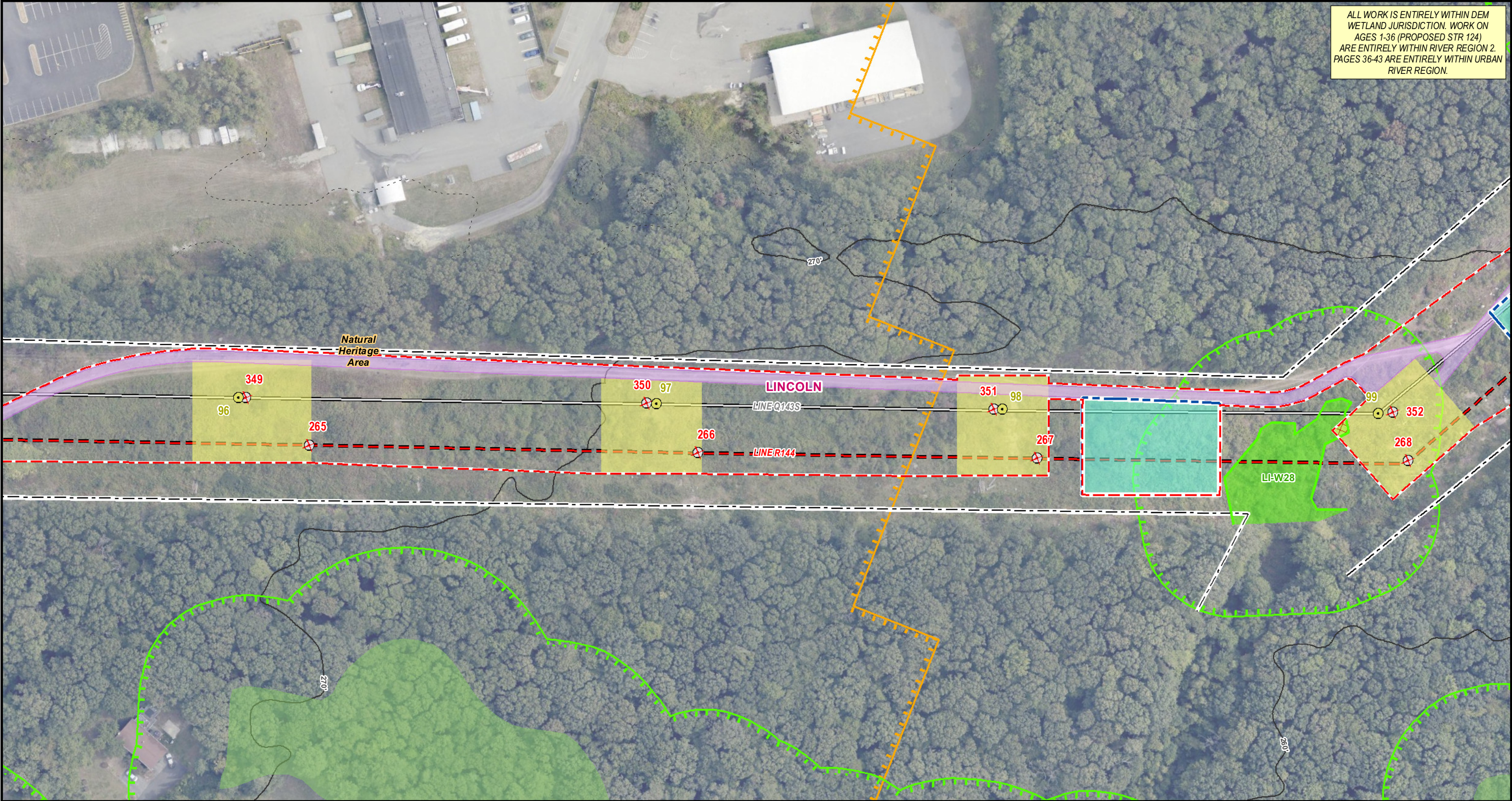
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

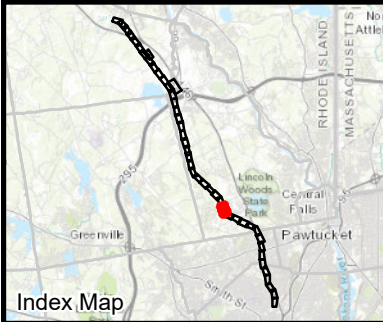
Lincoln, RI
Page 28 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





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PAGES 36-43 ARE ENTIRELY WITHIN URBAN
RIVER REGION.



Legend

Existing Structure	Existing Access to be Improved	Estimated Pond Bank	Surface Water Protection Area	Approximate Gas Pipeline	Existing 2ft Contours
Replace Structure	Engineered Access	Field Delineated Stream Area*	Protected Resource Location	Temporary Safety Fencing	Existing 10ft Contours
Install Structure	Access Preparation & Mow	Field Delineated Wetland Boundary	Natural Heritage Area	Sensitive Resource Area	Proposed Major Contour
Remove Structure	Temporary Access to be Restored	Field Delineated Wetlands*	Conservation Land	Town Boundary	Proposed Minor Contour
Existing Overhead Line	Matted Work Areas	USFWS Wetlands*	Sensitive Resource	Manhole	
Replace Overhead Line	Proposed Structure Work Pad	USFWS Open Water*	Hazardous Material Site	Catch Basin	
Install Overhead Line	Pull Pad	100ft Jurisdictional Area to Wetlands	Leaking Underground Storage	Culvert	
Remove Overhead Line	Limit of Disturbance	200ft Jurisdictional Area to Streams	Approximate ROW Limits	Company Gate	
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Existing Access	Delineated Stream Centerline		Stonewall	Proposed Tree Removal	

1 inch = 100 feet

0 50 100

Feet

**Indicates Layers Set to Transparency*

Q143/R144 LINES REBUILD PROJECT

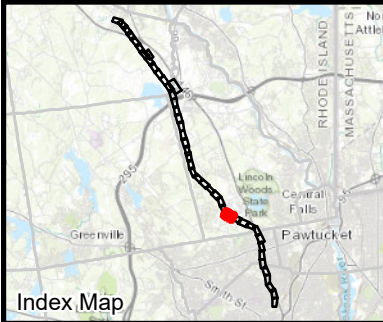
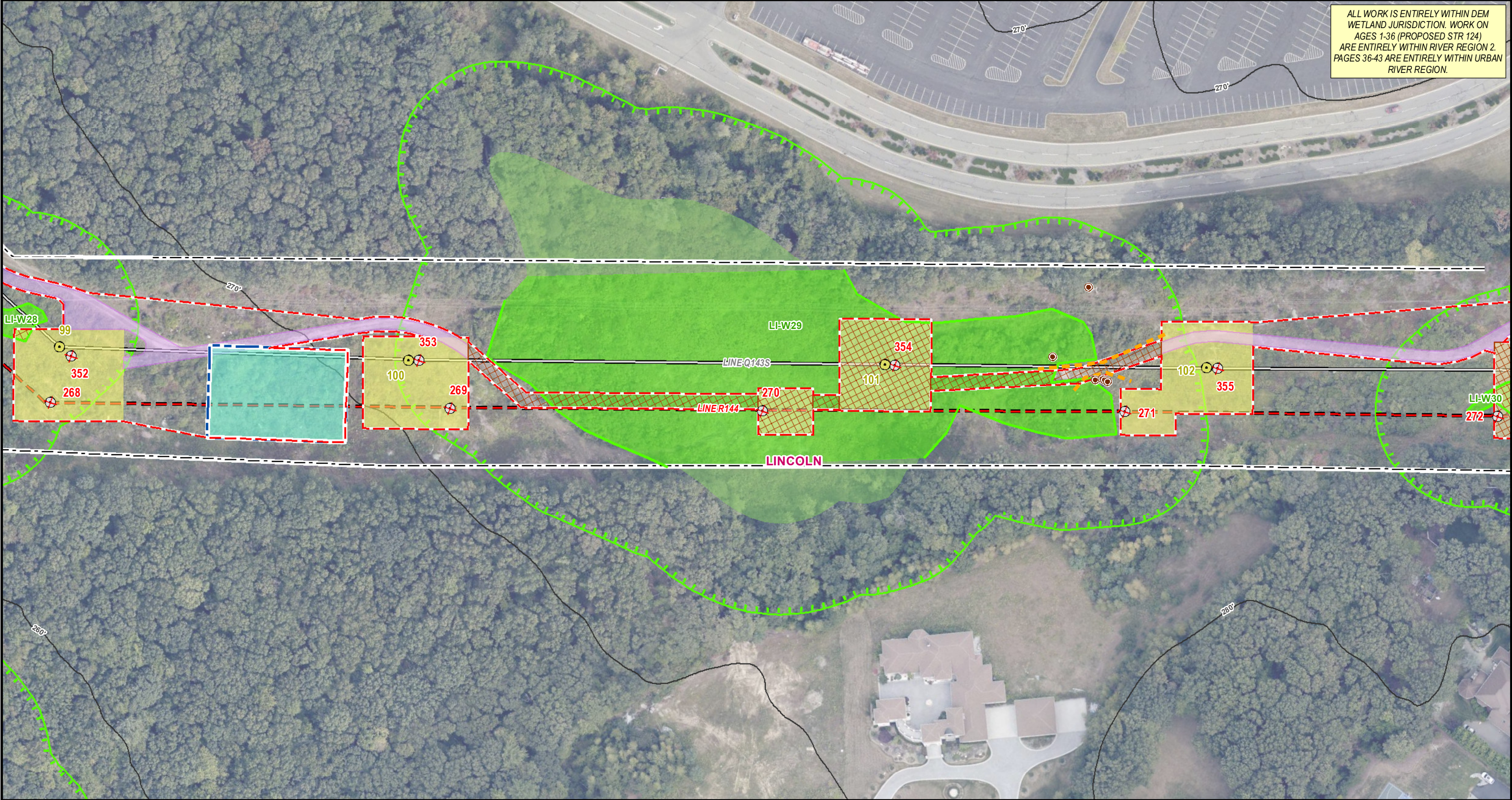
Figure 3-1 - Project Alignment Drawings

Lincoln, RI
Page 29 of 43

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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Legend

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Scale: 1 inch = 100 feet
0 50 100 Feet

North Arrow

**Indicates Layers Set to Transparency*

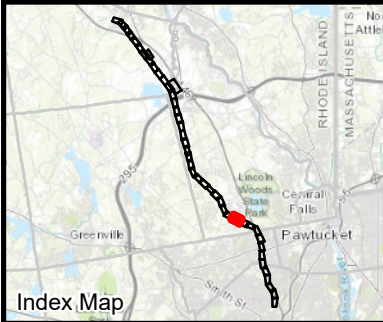
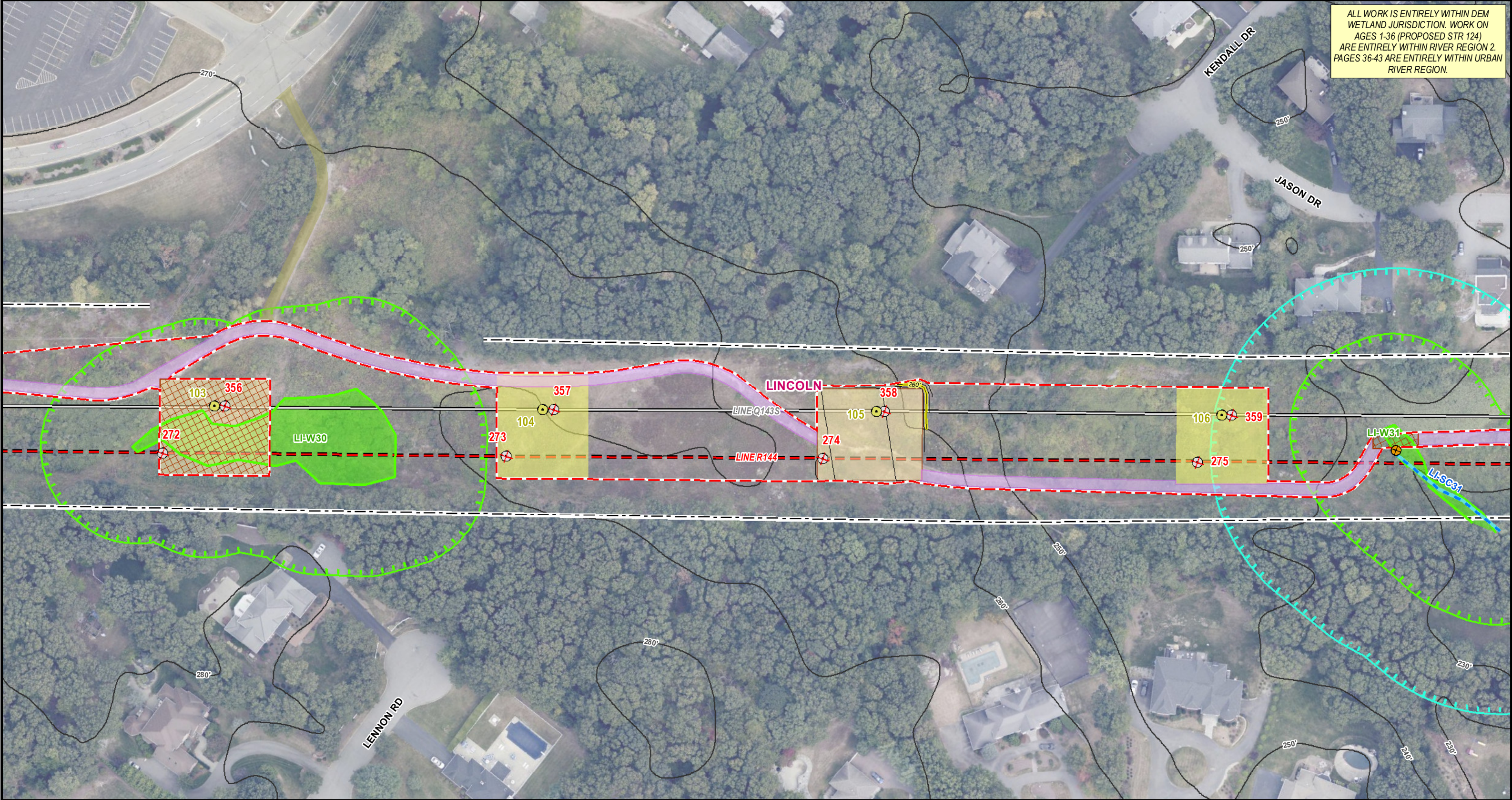
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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Page 30 of 43

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Legend

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Existing Access	Delineated Stream Centerline		Stonewall		

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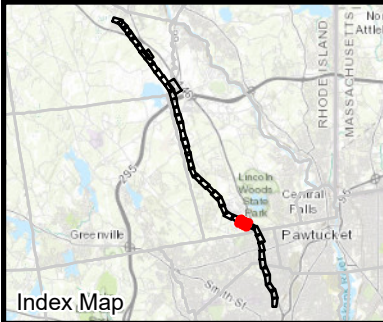
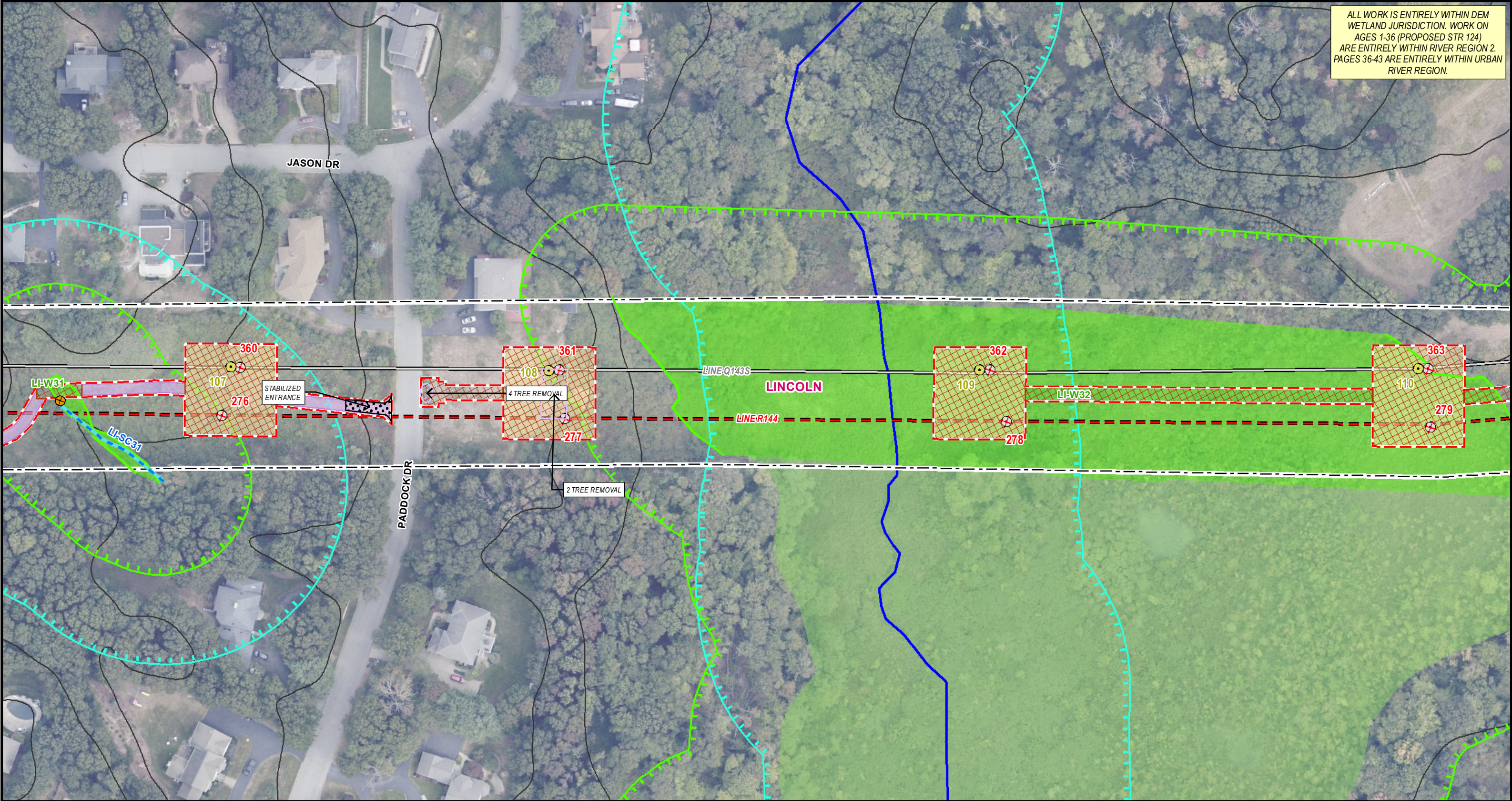
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

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Page 31 of 43

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Legend

<ul style="list-style-type: none">Existing StructureReplace StructureInstall StructureRemove StructureExisting Overhead LineReplace Overhead LineInstall Overhead LineRemove Overhead LineApproximate Construction Vehicle RouteExisting Access	<ul style="list-style-type: none">Existing Access to be ImprovedEngineered AccessAccess Preparation & MowTemporary Access to be RestoredMatted Work AreasProposed Structure Work PadPull PadLimit of DisturbanceDelineated Stream/Pond BankDelineated Stream Centerline	<ul style="list-style-type: none">Estimated Pond BankField Delineated Stream Area*Field Delineated Wetland BoundaryField Delineated Wetlands*USFWS Wetlands*USFWS Open Water*100ft Jurisdictional Area to Wetlands200ft Jurisdictional Area to StreamsFEMA 100yr Floodplain*	<ul style="list-style-type: none">Surface Water Protection AreaProtected Resource LocationNatural Heritage AreaConservation LandSensitive ResourceHazardous Material SiteLeaking Underground Storage100ft Jurisdictional Area to WetlandsApproximate ROW LimitsGuardrailStonewall	<ul style="list-style-type: none">Approximate Gas PipelineTemporary Safety FencingSensitive Resource AreaTown BoundaryManholeCatch BasinCompany GateNoncompany GateProposed Tree Removal	<ul style="list-style-type: none">Existing 2ft ContoursExisting 10ft ContoursProposed Major ContourProposed Minor Contour
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1 inch = 100 feet
0 50 100 Feet

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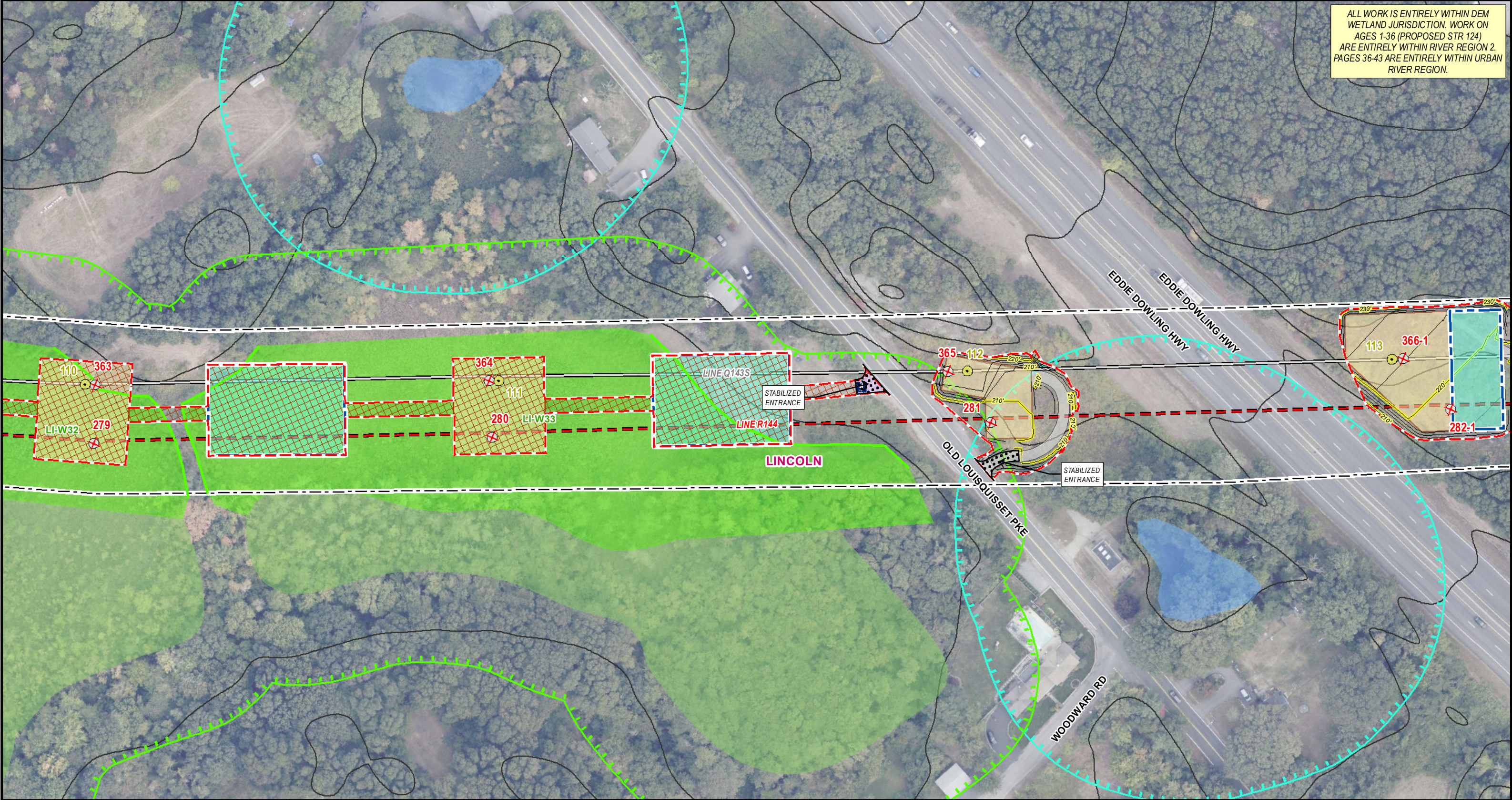
Q143/R144 LINES REBUILD PROJECT

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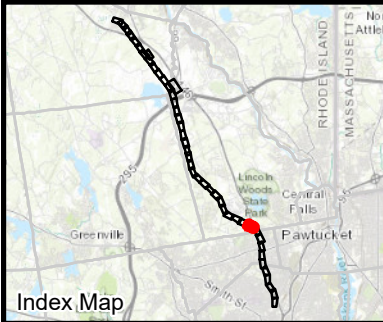
Lincoln, RI
Page 32 of 43

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1 inch = 100 feet
0 50 100
Feet

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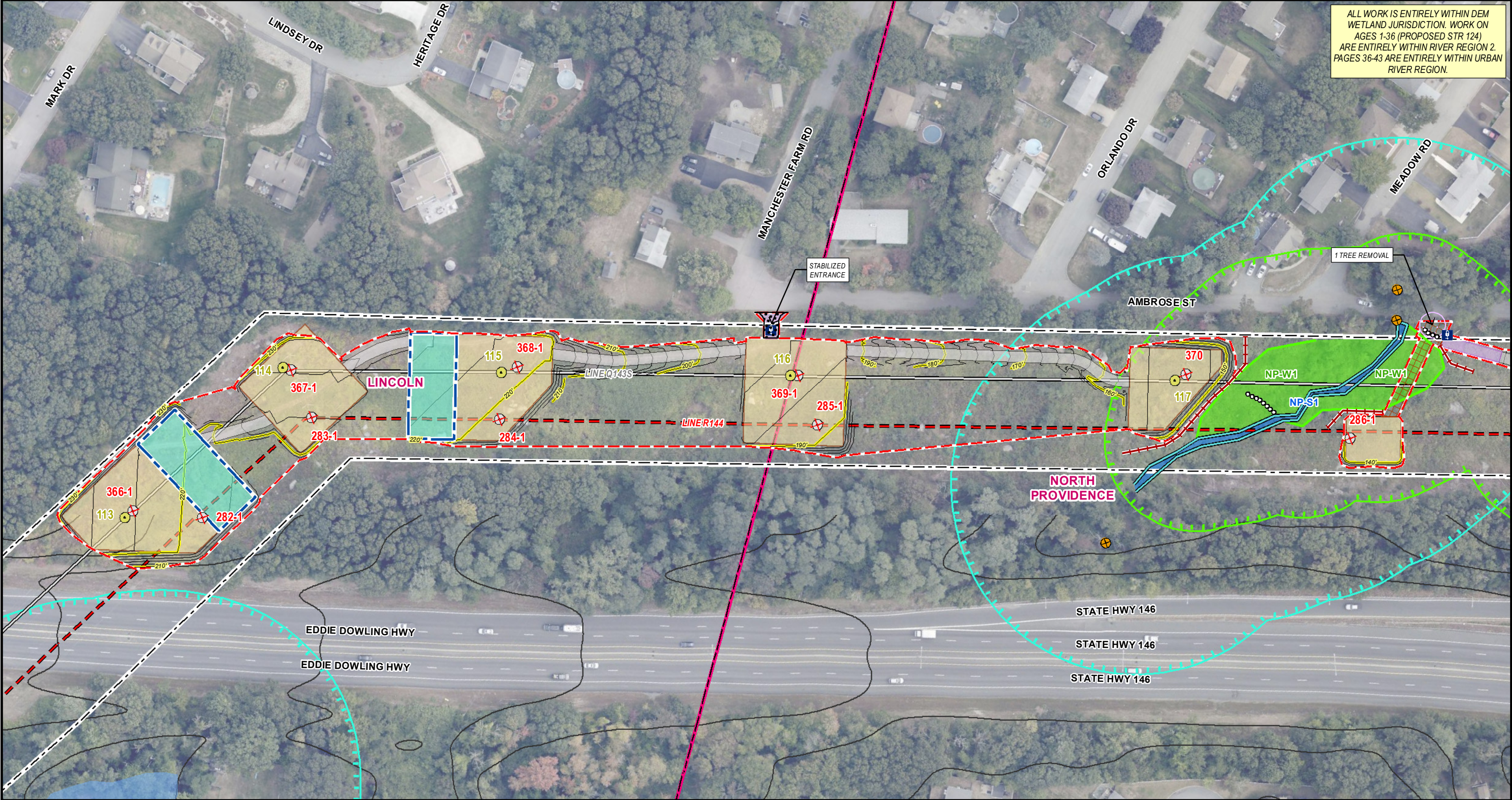
**Q143/R144 LINES REBUILD
PROJECT**

Figure 3-1 - Project Alignment Drawings

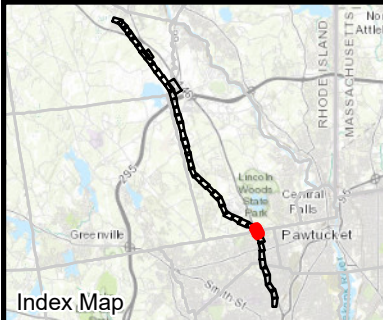
Lincoln, RI
Page 33 of 43

RIDEM
Sources: Esri, HERE, Garmin,
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0 50 100

Feet

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Q143/R144 LINES REBUILD PROJECT

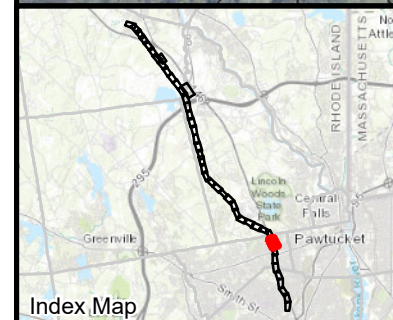
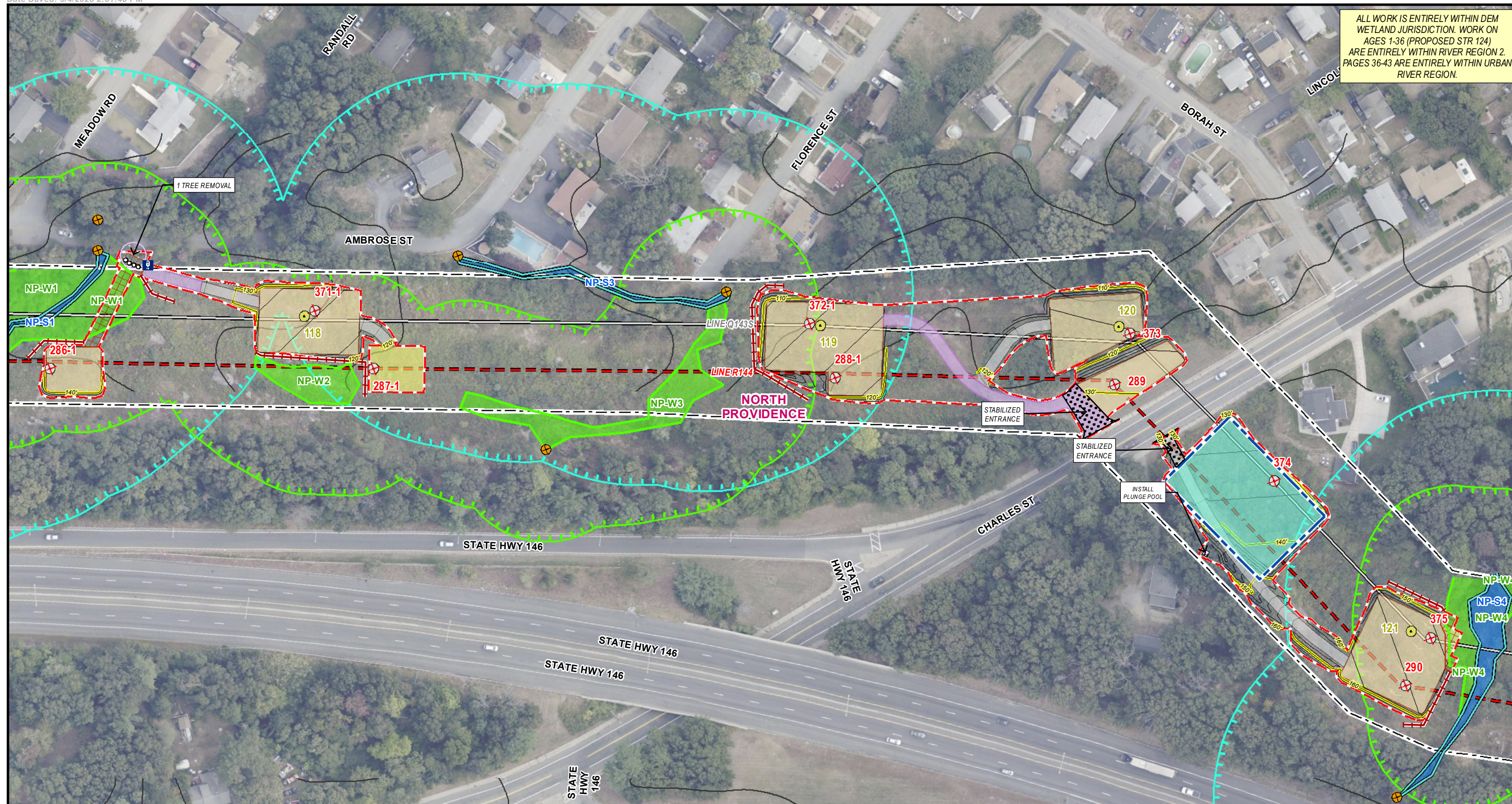
Figure 3-1 - Project Alignment Drawings

Lincoln & North Providence, RI
Page 34 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community




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Feet

***Indicates Layers Set to Transparency**


Q143/R144 LINES REBUILD PROJECT


Figure 3-1 - Project Alignment Drawings

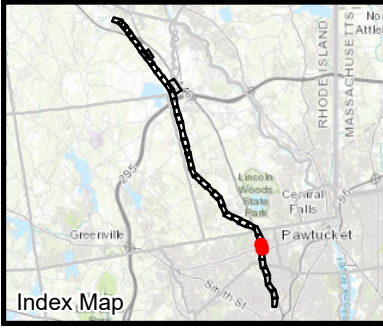
North Providence, RI

Page 35 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributor and the GIS User Community


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Legend

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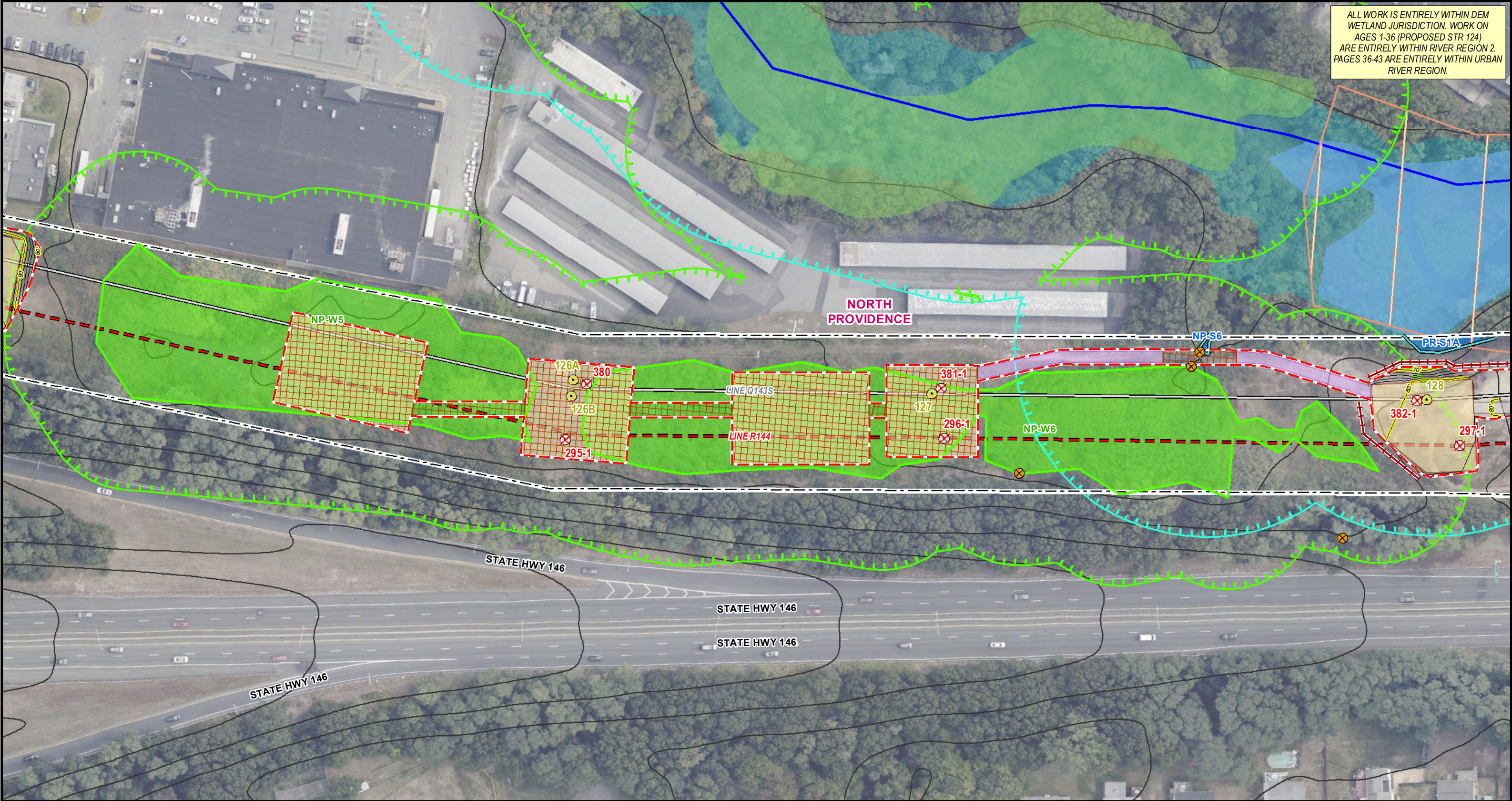
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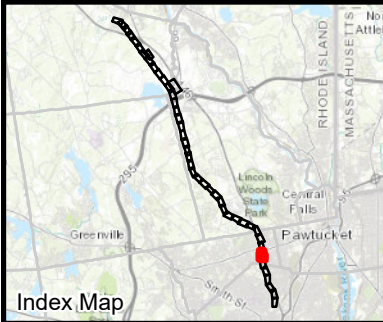
North Providence, RI
Page 36 of 43

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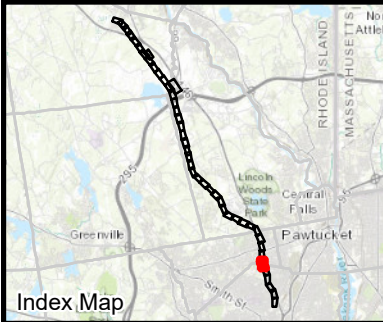
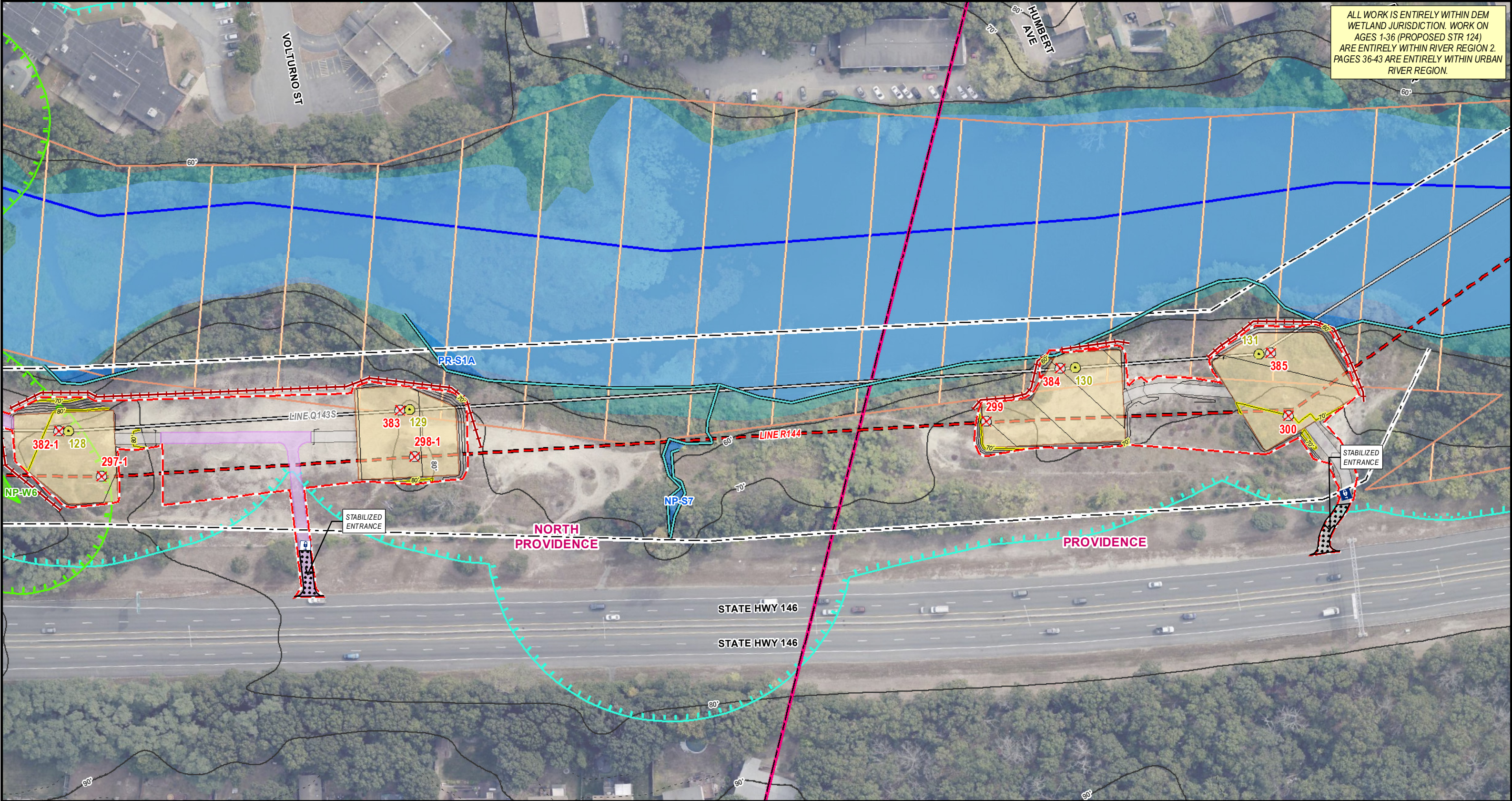
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

North Providence, RI
Page 37 of 43

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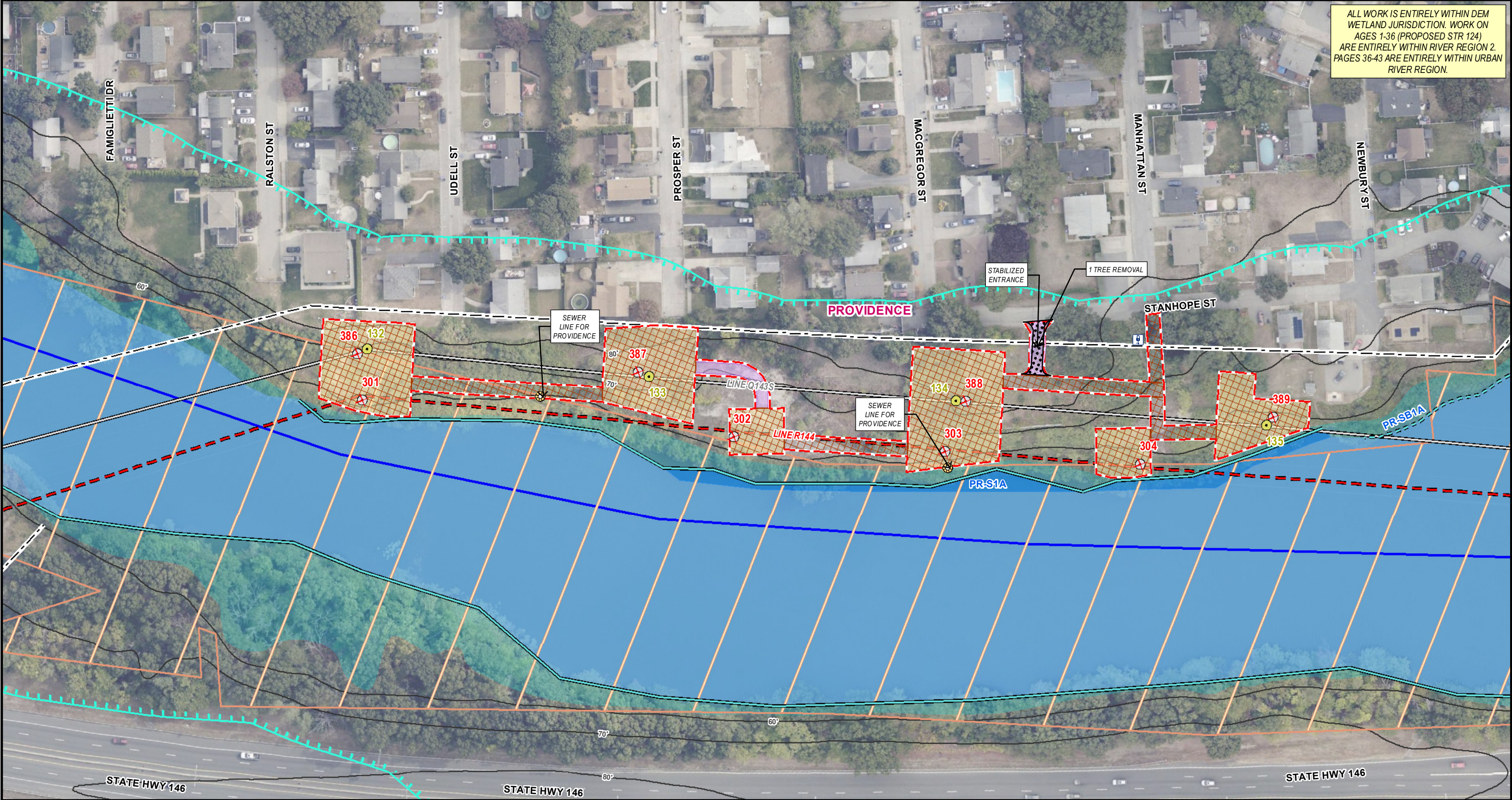
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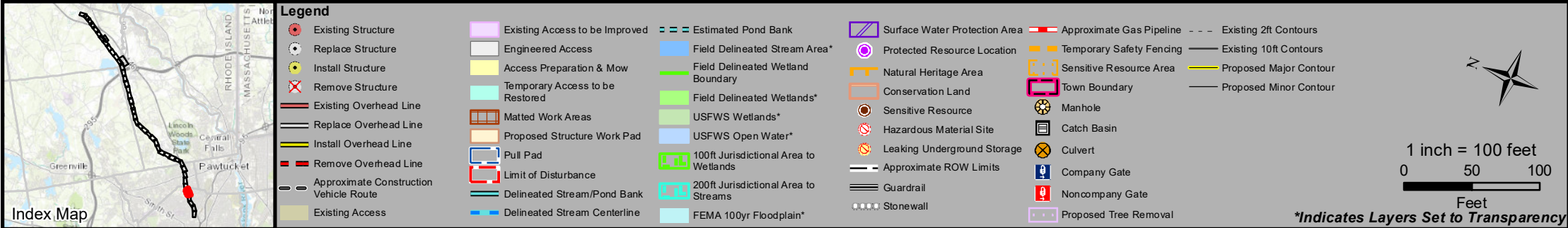
North Providence & Providence, RI
Page 38 of 43

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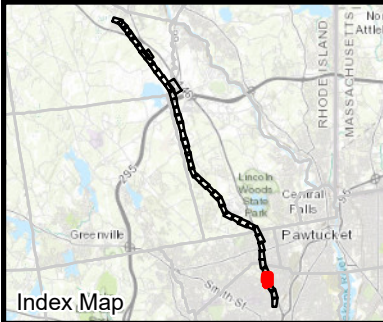
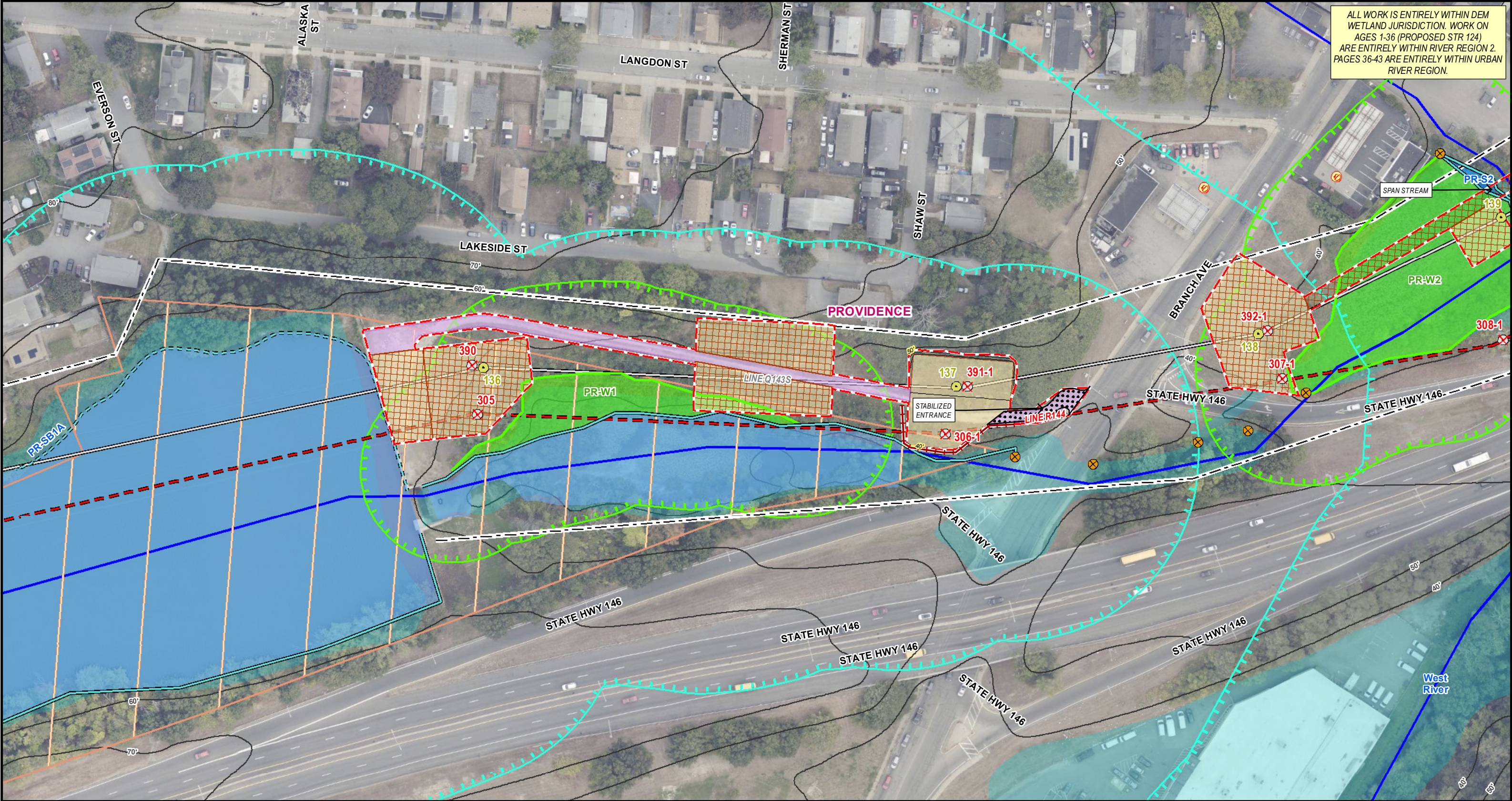
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Providence, RI
Page 39 of 43

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Legend

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0 50 100 Feet

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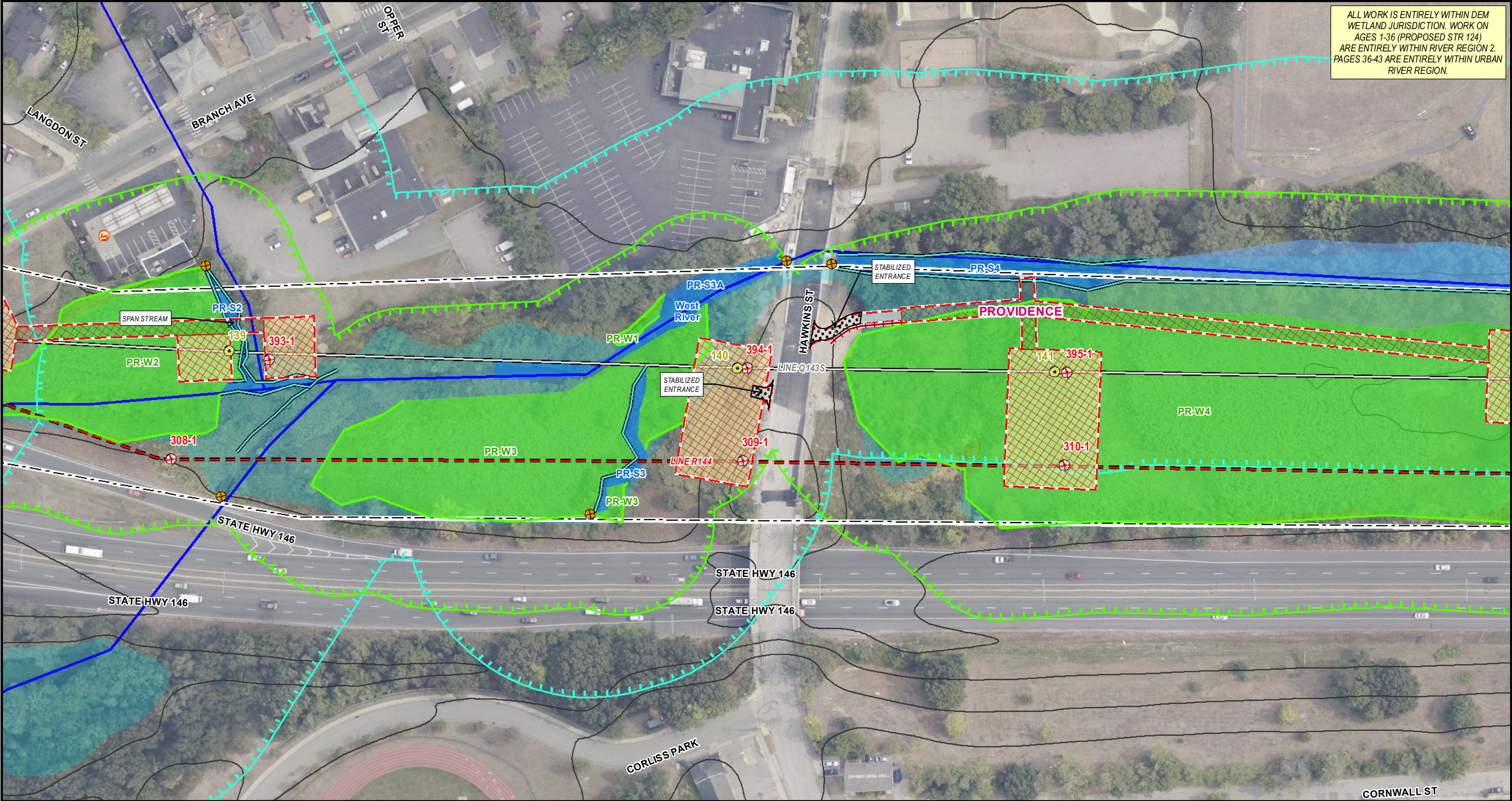
Q143/R144 LINES REBUILD PROJECT

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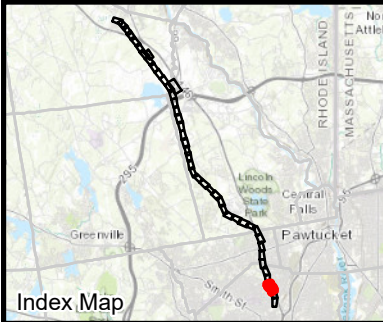
Providence, RI
Page 40 of 43

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Replace Structure	Engineered Access	Field Delineated Stream Area*	Protected Resource Location	Temporary Safety Fencing	Existing 10ft Contours
Install Structure	Access Preparation & Mow	Field Delineated Wetland Boundary	Natural Heritage Area	Sensitive Resource Area	Proposed Major Contour
Remove Structure	Temporary Access to be Restored	Field Delineated Wetlands*	Conservation Land	Town Boundary	Proposed Minor Contour
Existing Overhead Line	Matted Work Areas	USFWS Wetlands*	Sensitive Resource	Manhole	
Replace Overhead Line	Proposed Structure Work Pad	USFWS Open Water*	Hazardous Material Site	Catch Basin	
Install Overhead Line	Pull Pad	100ft Jurisdictional Area to Wetlands	Leaking Underground Storage	Company Gate	
Remove Overhead Line	Limit of Disturbance	200ft Jurisdictional Area to Streams	Approximate ROW Limits	Noncompany Gate	
Approximate Construction Vehicle Route	Delineated Stream/Pond Bank	FEMA 100yr Floodplain*	Guardrail	Proposed Tree Removal	
Existing Access	Delineated Stream Centerline		Stonewall		

1 inch = 100 feet

0 50 100

Feet

**Indicates Layers Set to Transparency*

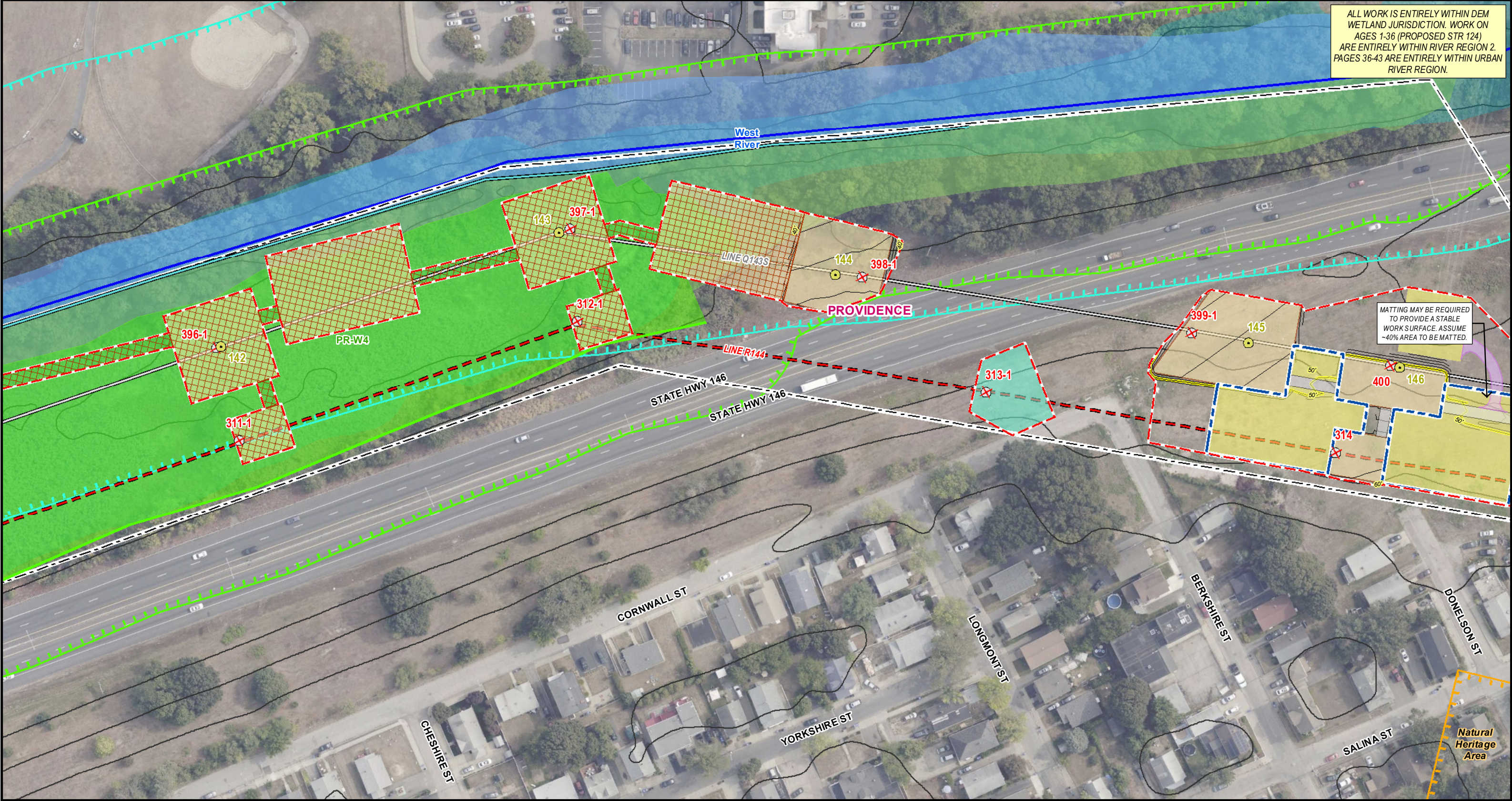
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Providence, RI
Page 41 of 43

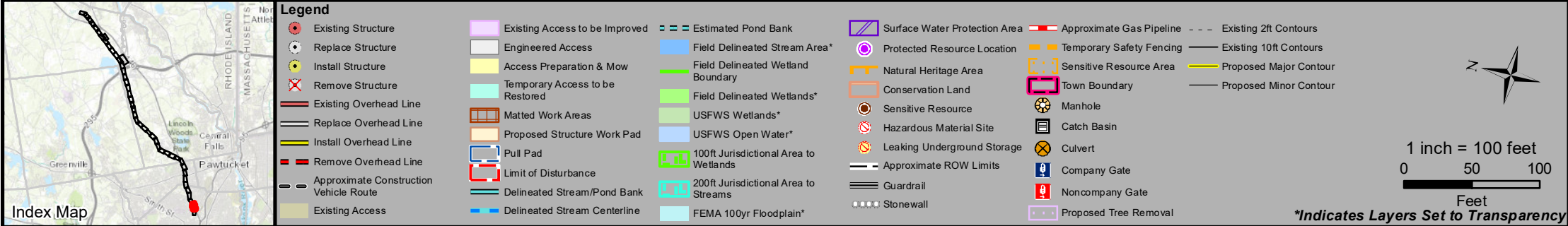
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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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ALL WORK IS ENTIRELY WITHIN DEM WETLAND JURISDICTION. WORK ON AGES 1-36 (PROPOSED STR 124) ARE ENTIRELY WITHIN RIVER REGION 2. PAGES 36-43 ARE ENTIRELY WITHIN URBAN RIVER REGION.

MATting MAY BE REQUIRED TO PROVIDE A STABLE WORK SURFACE. ASSUME ~40% AREA TO BE MATTED.



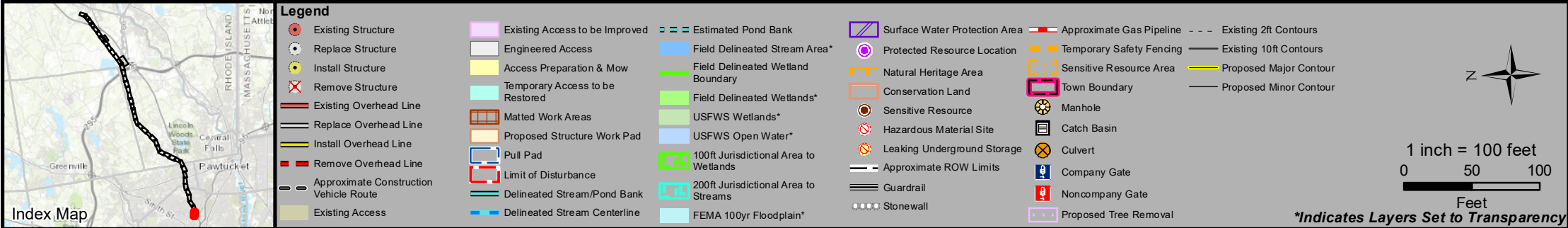
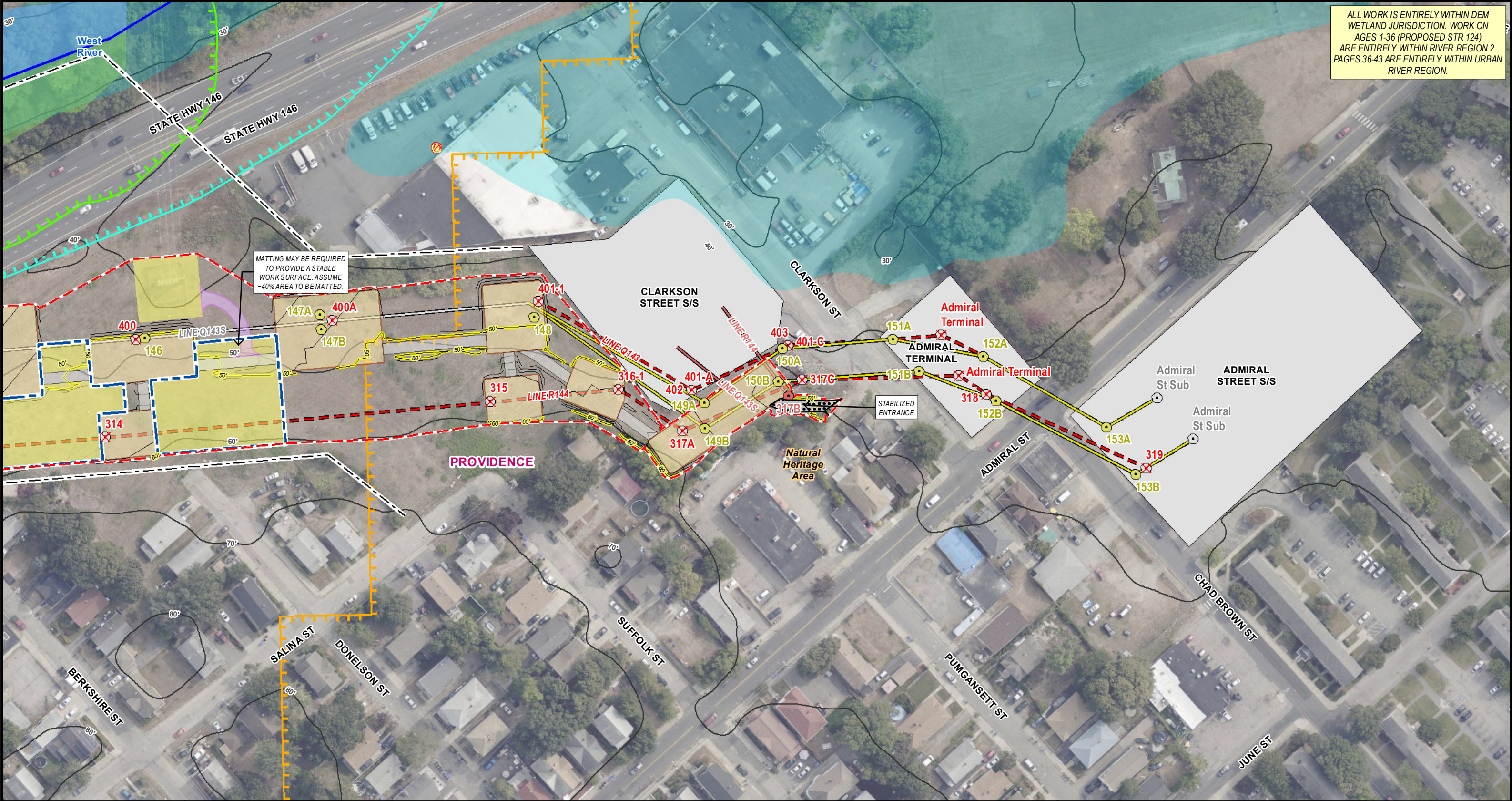
Q143/R144 LINES REBUILD PROJECT

Figure 3-1 - Project Alignment Drawings

Providence, RI
Page 42 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





Q143/R144 LINES REBUILD PROJECT

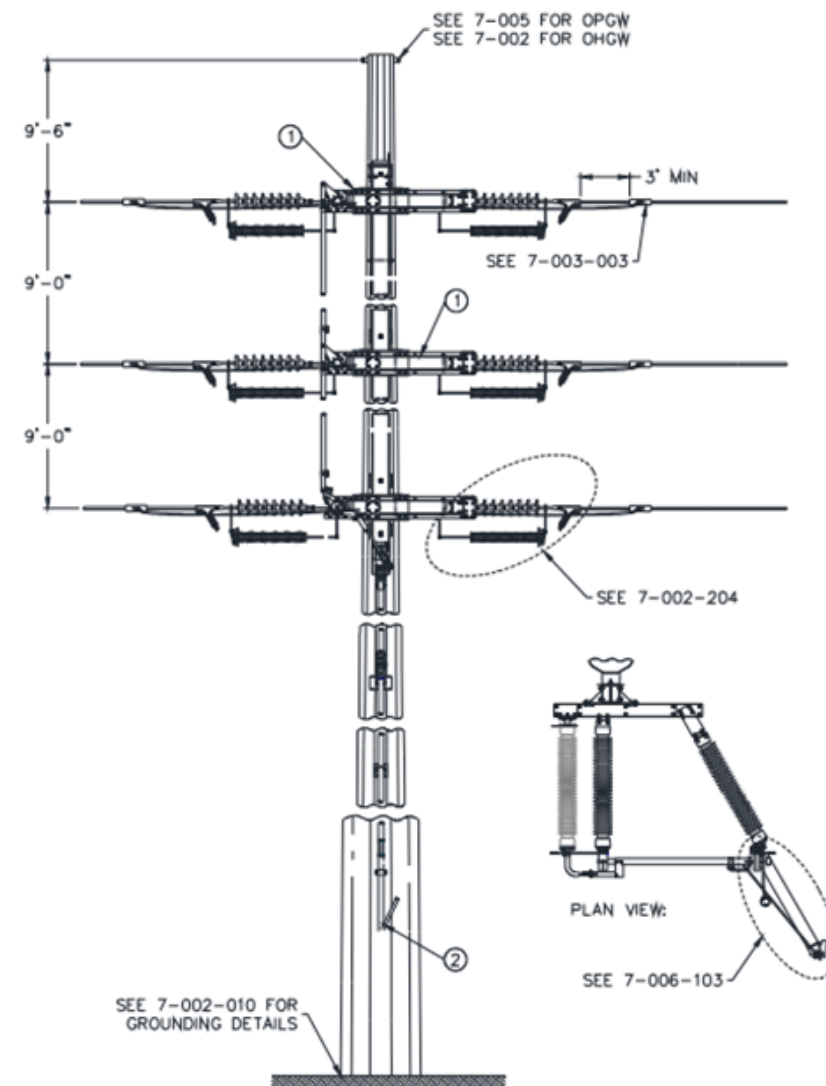
Figure 3-1 - Project Alignment Drawings

Providence, RI

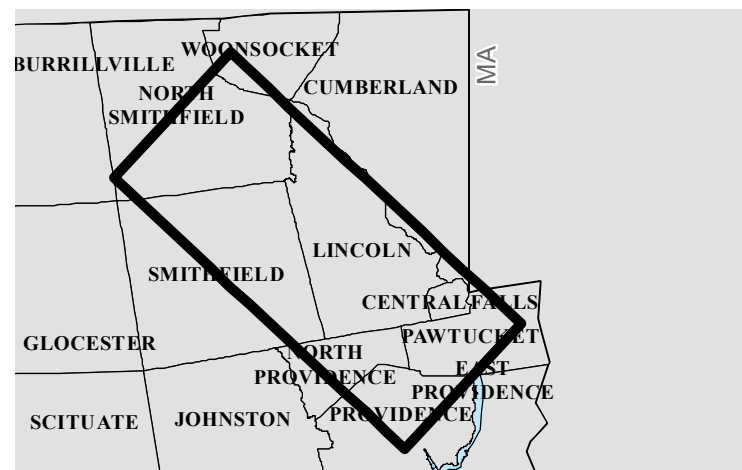
Page 43 of 43

RIDEM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Rhode Island Energy
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 1

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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DATE: 4/14/2025

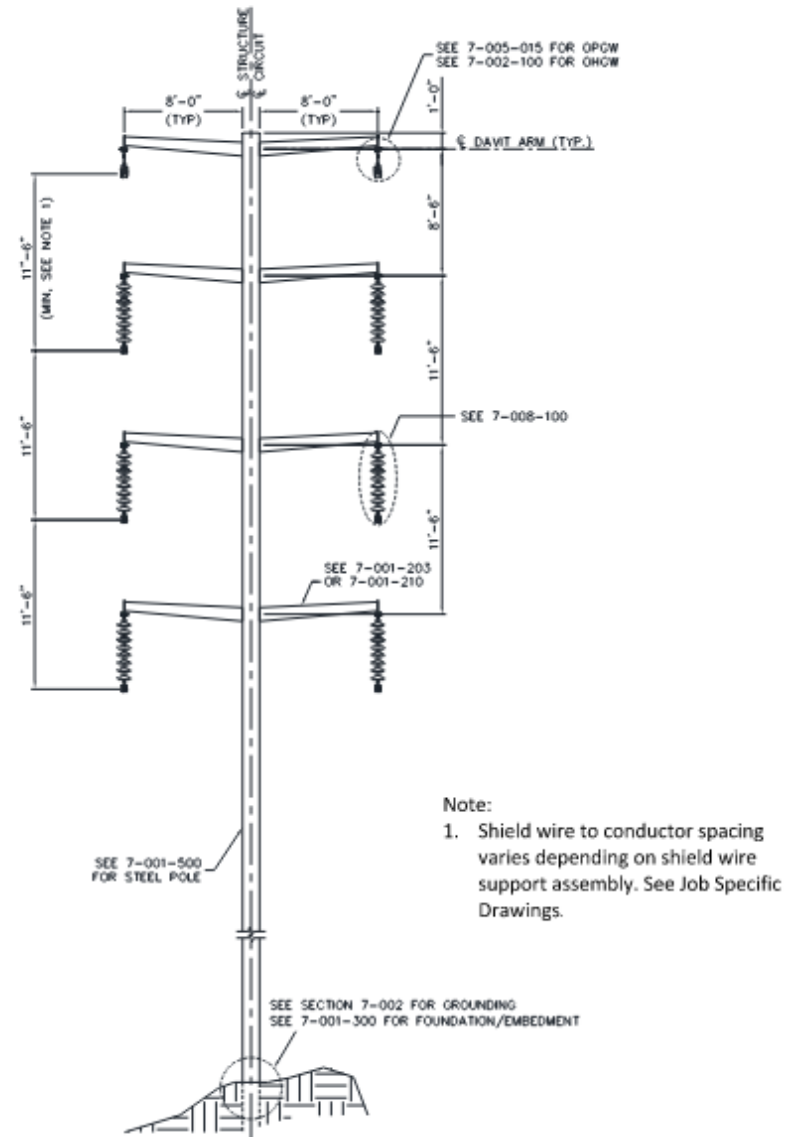
AUTHOR: KANDREWS



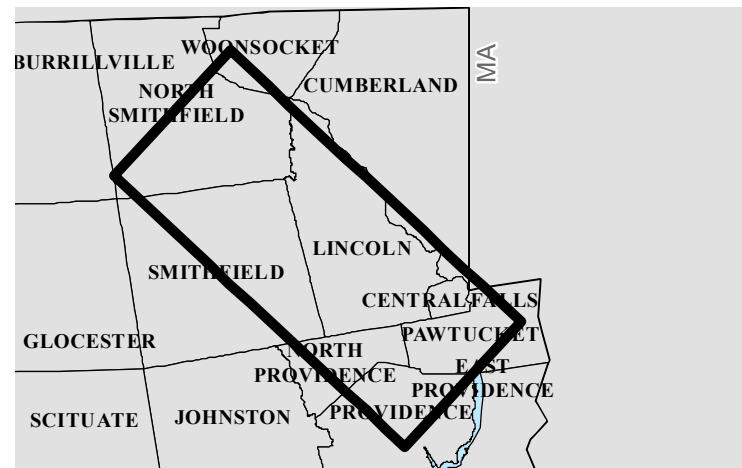
7-008-001
115/138kV Double Circuit Steel Pole
Tangent Suspension Structure

Revision: 02
Effective Date: 05/21/2023
Sheet 1 of 1

T-7-008-001



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 2

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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DATE: 4/14/2025

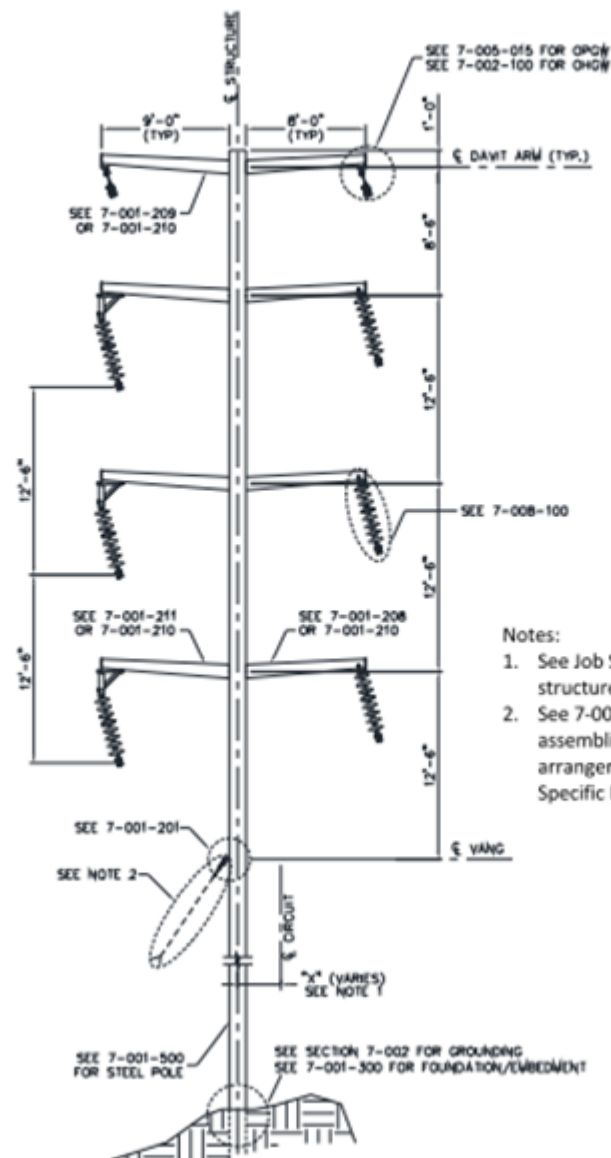
AUTHOR: KANDREWS



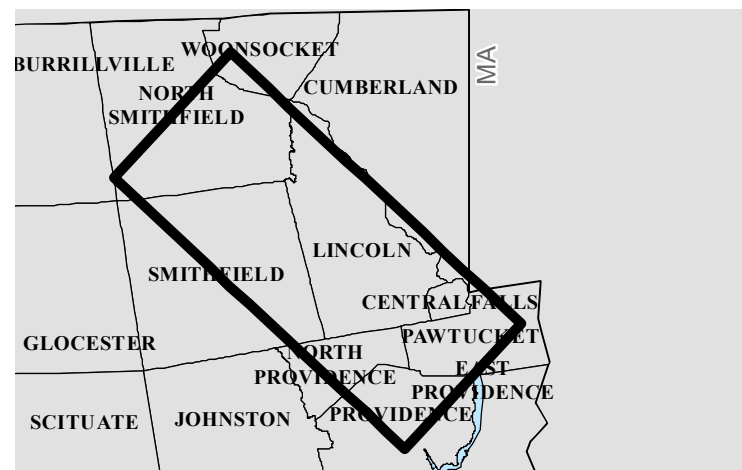
7-008-002
115/138kV Double Circuit Steel Pole
Light Angle Suspension Structure

Revision: 02
Effective Date: 05/21/2023
Sheet 1 of 1

T-7-008-002



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 3

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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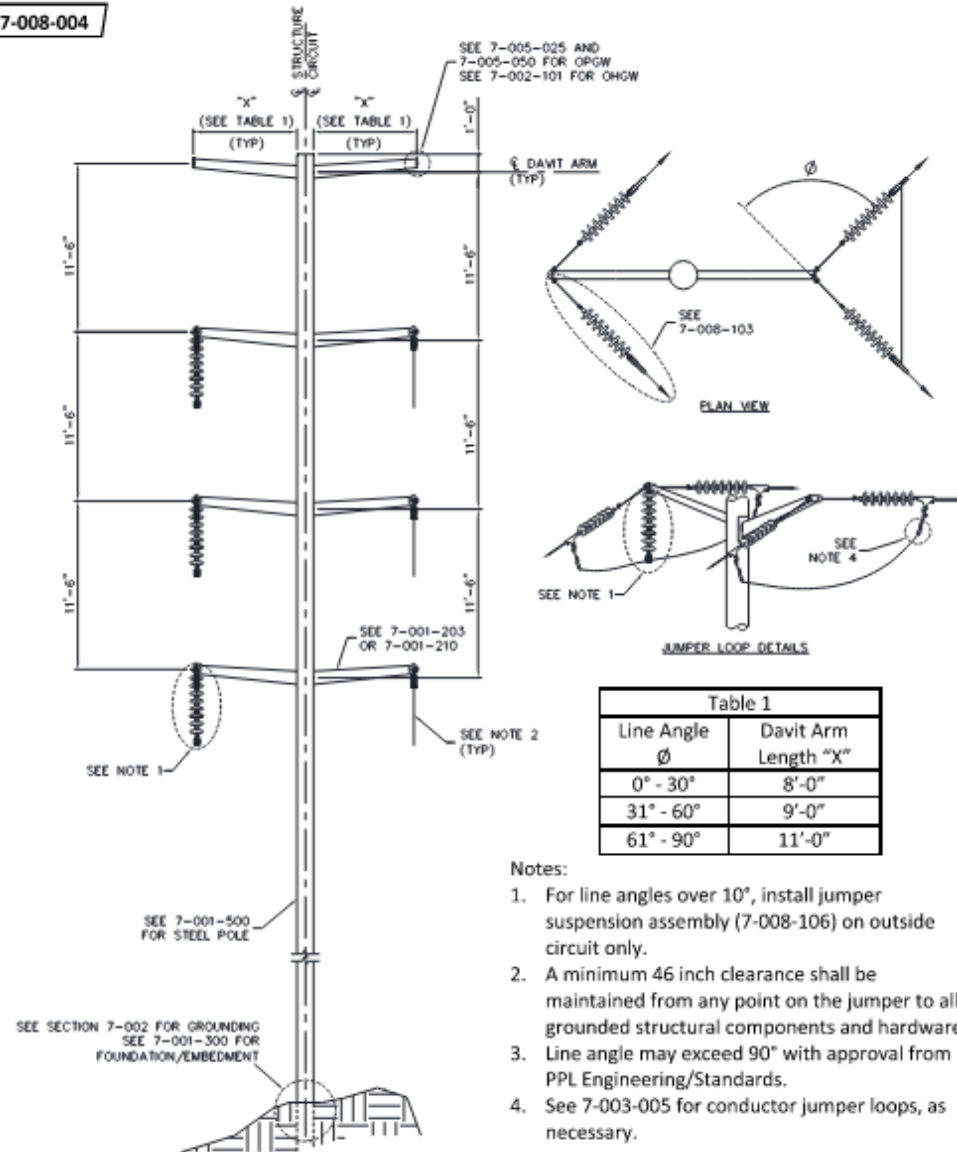
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CONSTRUCTION

DATE: 4/14/2025

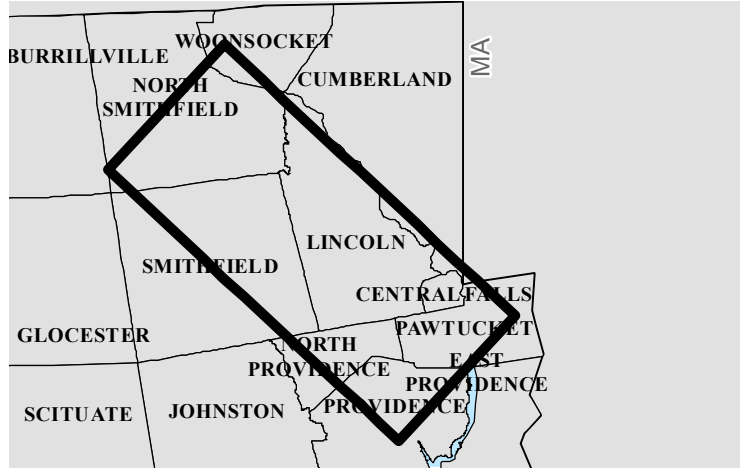
AUTHOR: KANDREWS



T-7-008-004



Project Vicinity



Q143/R144 Lines
Rebuild Project

Figure 3-2 - Typical Structure Details - Page 4

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence



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7-008-005
115/138kV Double Circuit Steel Pole
Tension on Pole Structure

Revision: 02
Effective Date: 05/21/2023
Sheet 1 of 1

T-7-008-005

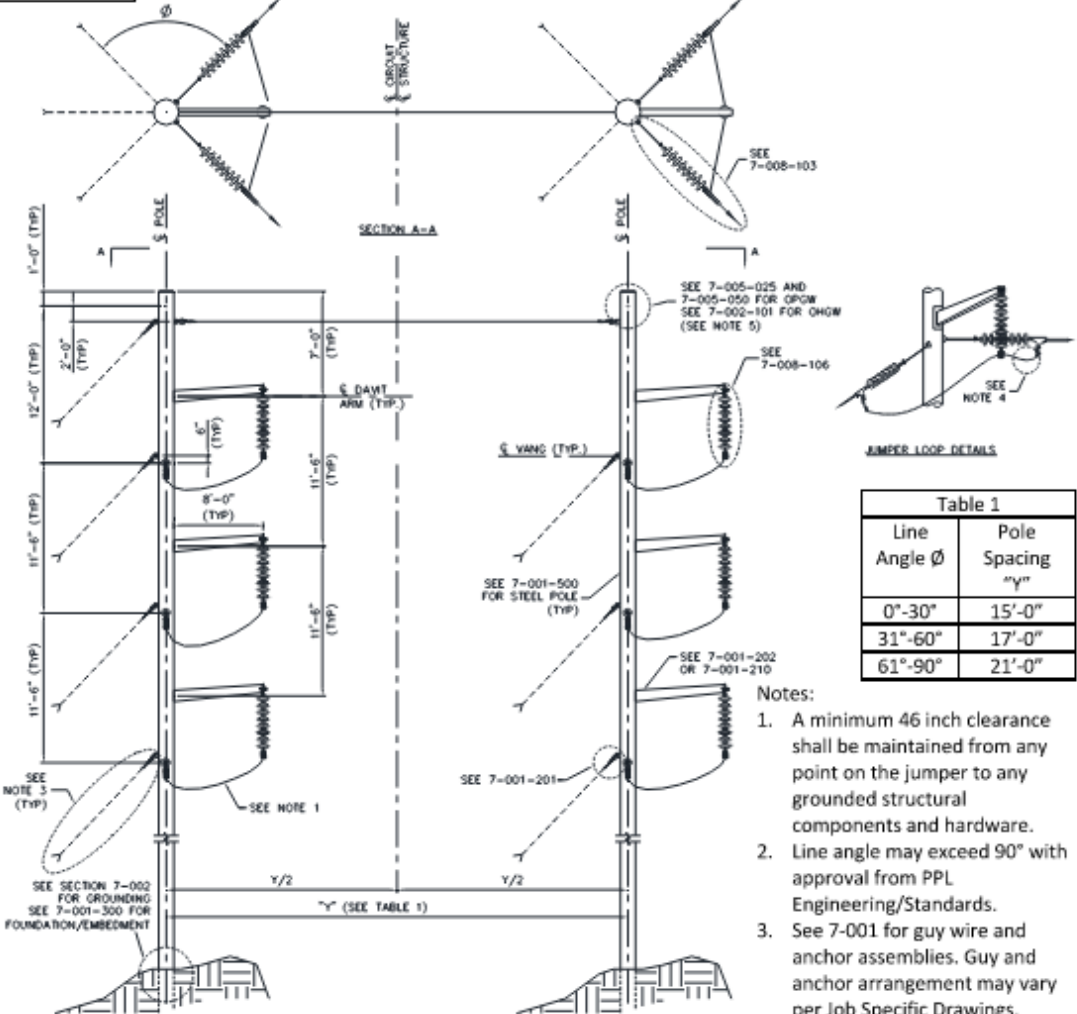
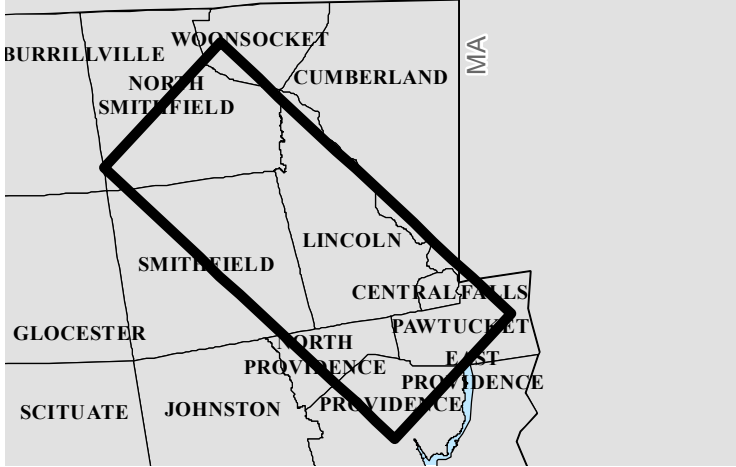


Table 1	
Line Angle Ø	Pole Spacing "V"
0°-30°	15'-0"
31°-60°	17'-0"
61°-90°	21'-0"

- Notes:
1. A minimum 46 inch clearance shall be maintained from any point on the jumper to any grounded structural components and hardware.
 2. Line angle may exceed 90° with approval from PPL Engineering/Standards.
 3. See 7-001 for guy wire and anchor assemblies. Guy and anchor arrangement may vary per Job Specific Drawings.

4. See 7-003-005 for conductor jumper loops, as necessary.
5. Shield wire assembly may be installed on the pole top plate for standard class poles.
6. For areas with side slopes or uneven terrain, see Job Specific Drawings for potential differences in attachment points as measured from the pole top.

Project Vicinity



Q143/R144 Lines
Rebuild Project

Figure 3-2 - Typical Structure Details - Page 5

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence



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DATE: 4/14/2025

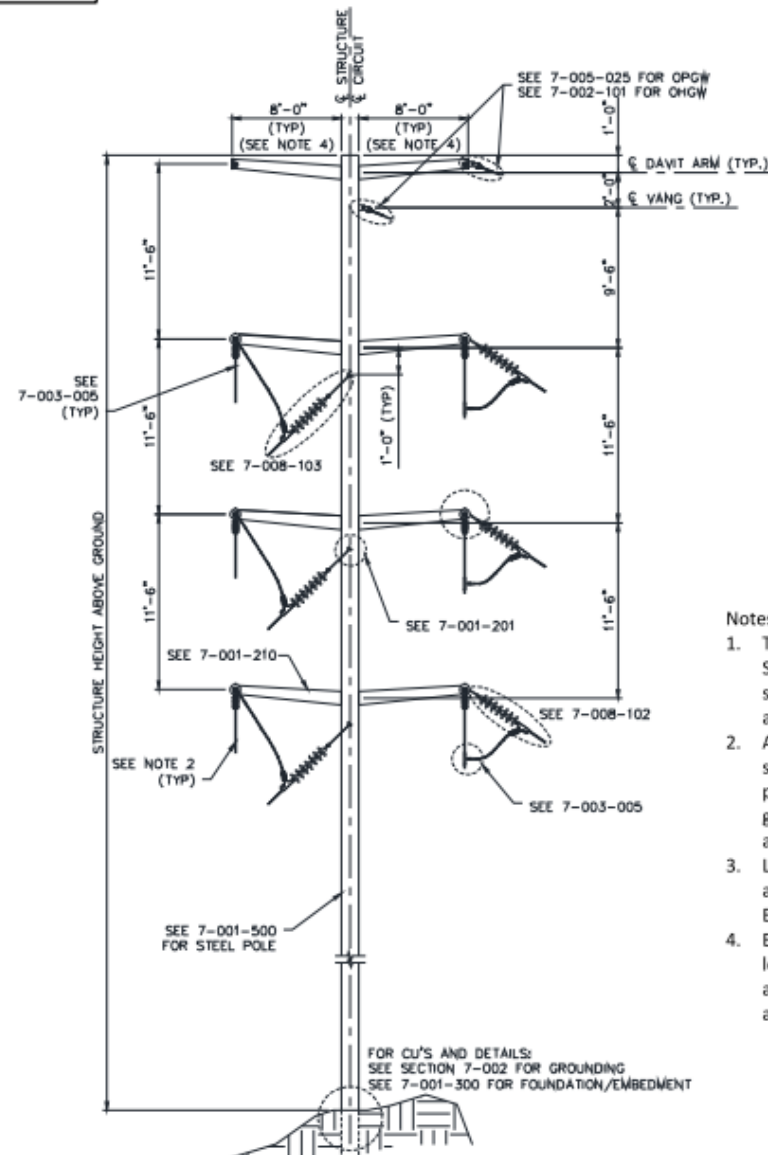
AUTHOR: KANDREWS



7-008-006
115/138kV Double Circuit Steel Pole
0° to 90° Tap Structure

Revision: 01
Effective Date: 05/21/2023
Sheet 1 of 2

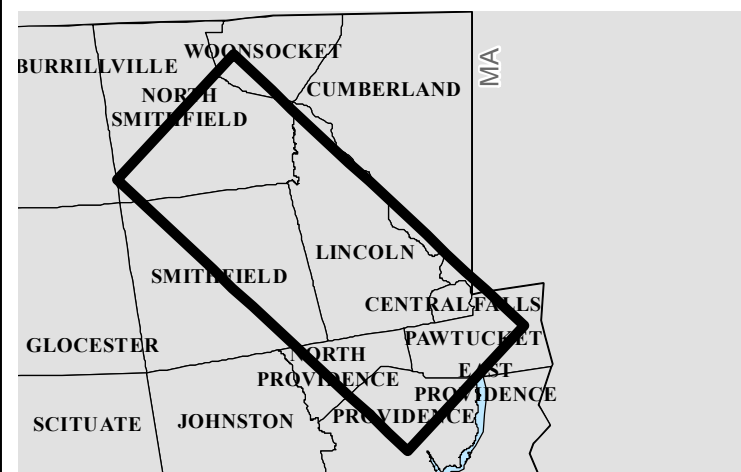
T-7-008-006



Notes:

1. Typical shield wire layout shown. See Job Specific Instructions for structure specific shield wire arrangement.
2. A minimum 46 inch clearance shall be maintained from any point on the jumper to all grounded structural components and hardware.
3. Line angle may exceed 90° with approval from PPL Engineering/Standards.
4. Engineer may increase arm length as necessary to accommodate specific line arrangement.

Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 6

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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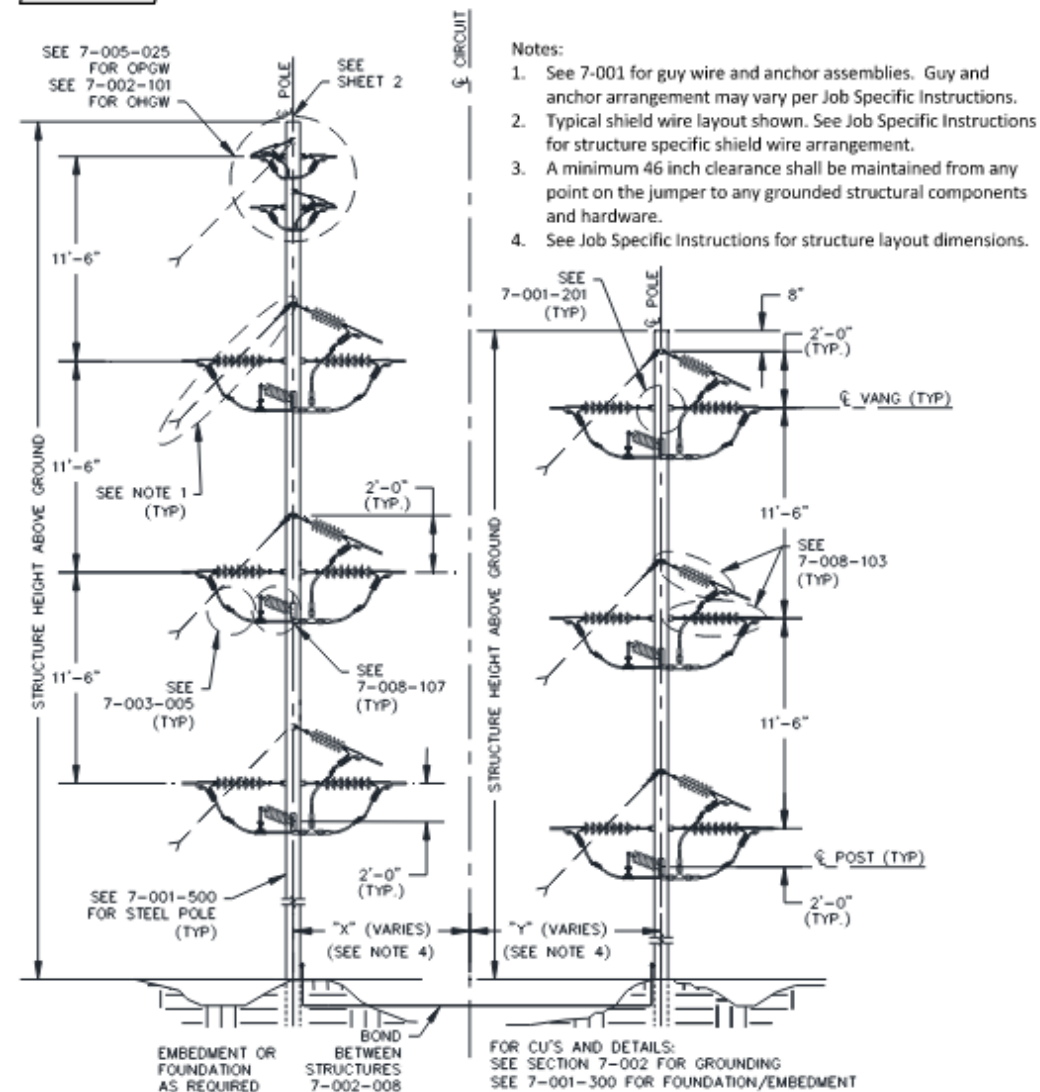
AUTHOR: KANDREWS



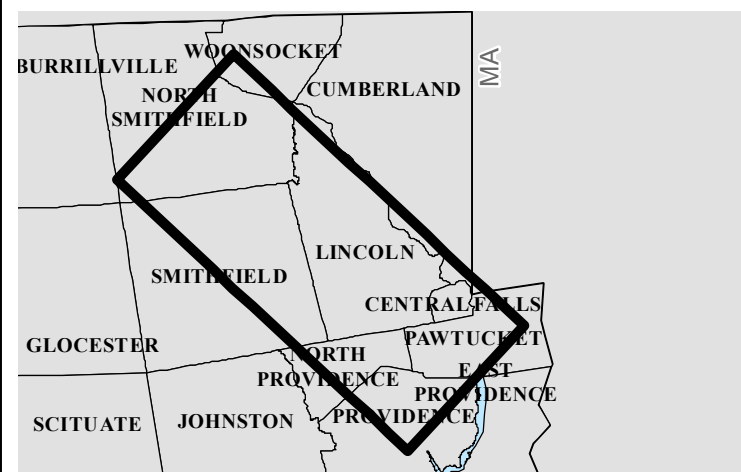
7-008-007
115/138kV Double Circuit Steel Pole
High-Low Tap Structure

Revision: 01
Effective Date: 05/21/2023
Sheet 1 of 4

T-7-008-007



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 7

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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DATE: 4/14/2025

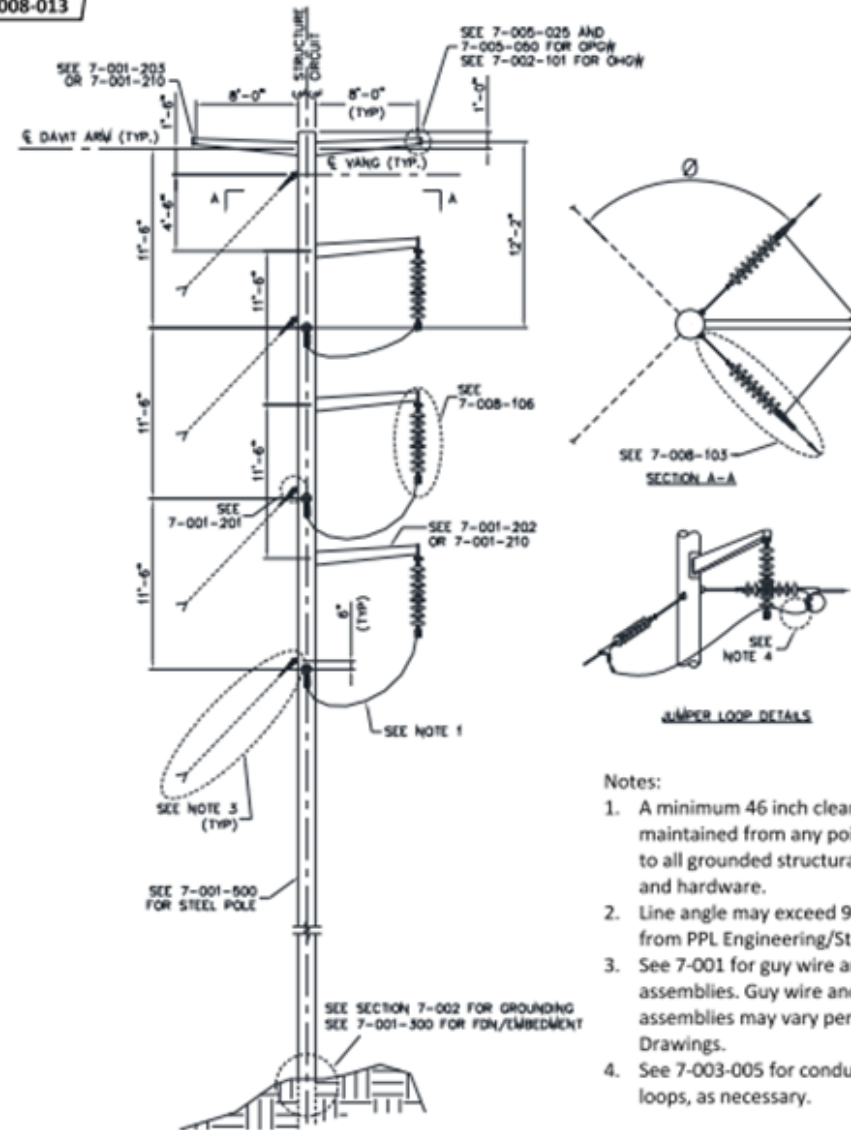
AUTHOR: KANDREWS



7-008-013
115/138kV Single Circuit Steel Pole
Tension on Pole Structure

Revision: 02
Effective Date: 05/21/2023
Sheet 1 of 1

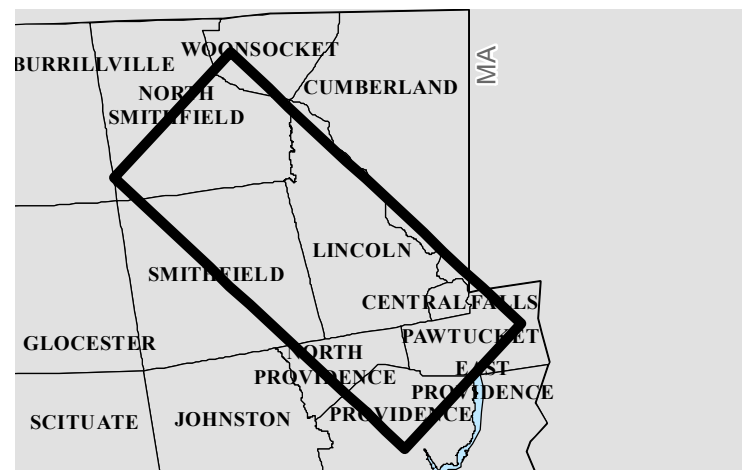
T-7-008-013



Notes:

1. A minimum 46 inch clearance shall be maintained from any point on the jumper to all grounded structural components and hardware.
2. Line angle may exceed 90° with approval from PPL Engineering/Standards.
3. See 7-001 for guy wire and anchor assemblies. Guy wire and anchor assemblies may vary per Job Specific Drawings.
4. See 7-003-005 for conductor jumper loops, as necessary.

Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 3-2 - Typical Structure Details - Page 8

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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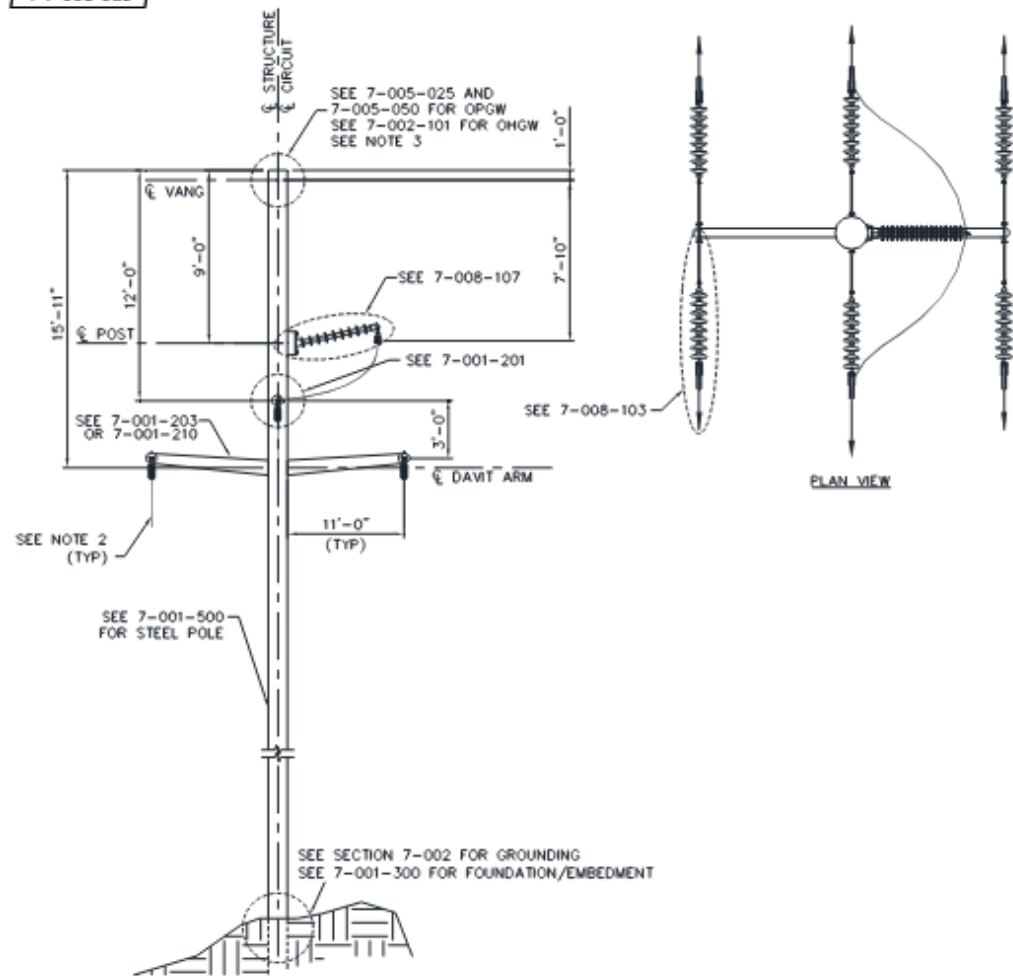
AUTHOR: KANDREWS



7-008-015
115/138kV Single Circuit Steel Pole
Transposition Structure

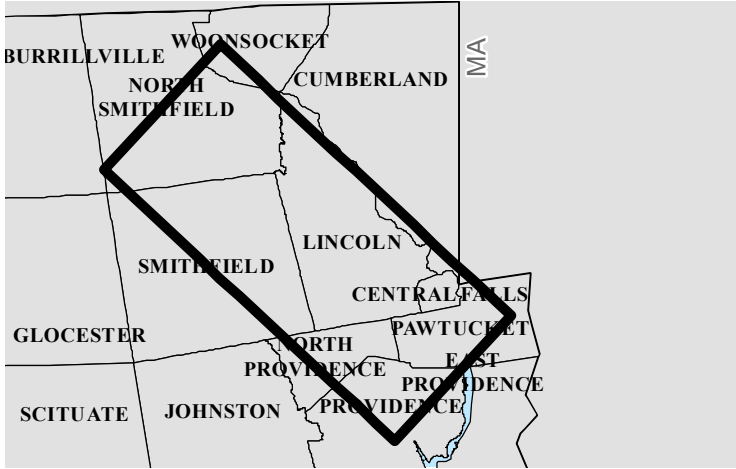
Revision: 02
Effective Date: 05/21/2023
Sheet 1 of 1

T-7-008-015



- Notes:
1. Typical shield wire layout shown. See Job Specific Drawings for structure specific shield wire arrangement.
 2. A minimum 46-inch clearance shall be maintained from any point on the jumper to all grounded structural components and hardware.
 3. Shield wire assembly may be installed on the pole top plate for standard class poles.

Project Vicinity



**Q143/R144 Lines
Rebuild Project**

Figure 3-2 - Typical Structure Details - Page 9

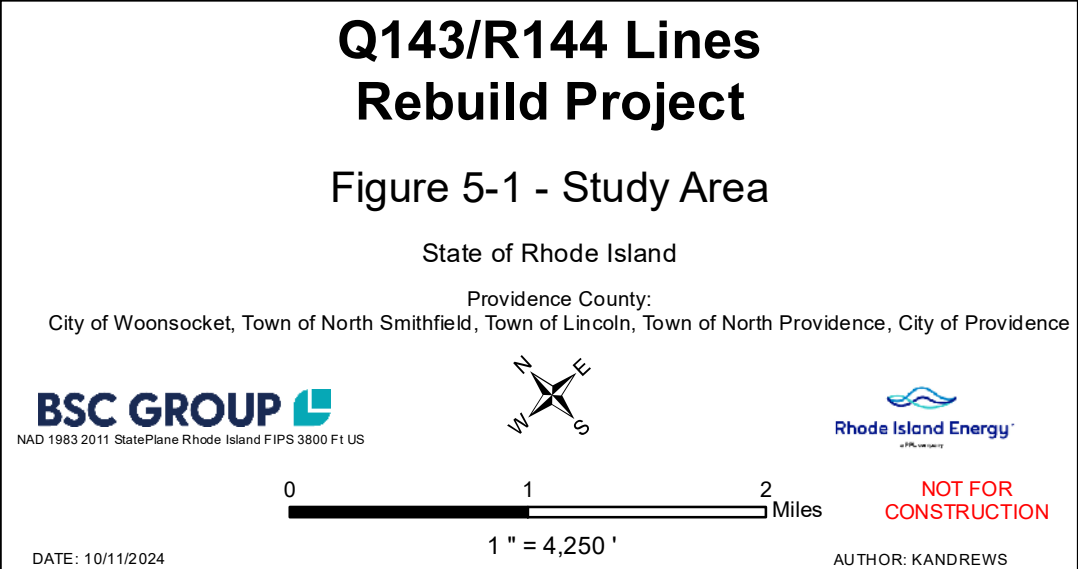
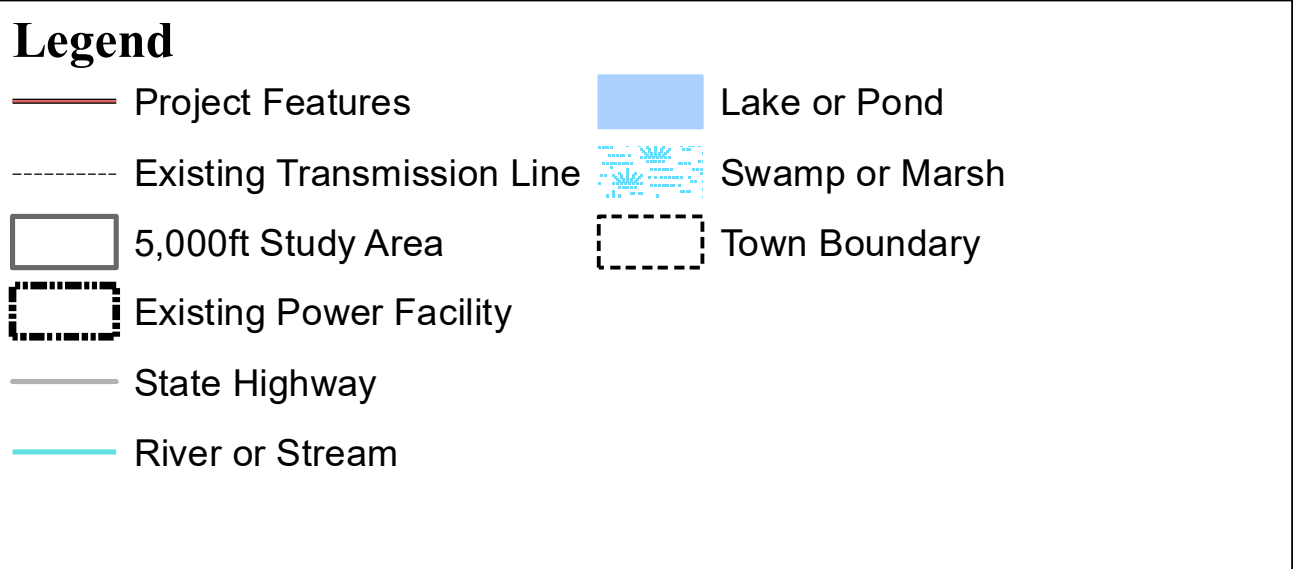
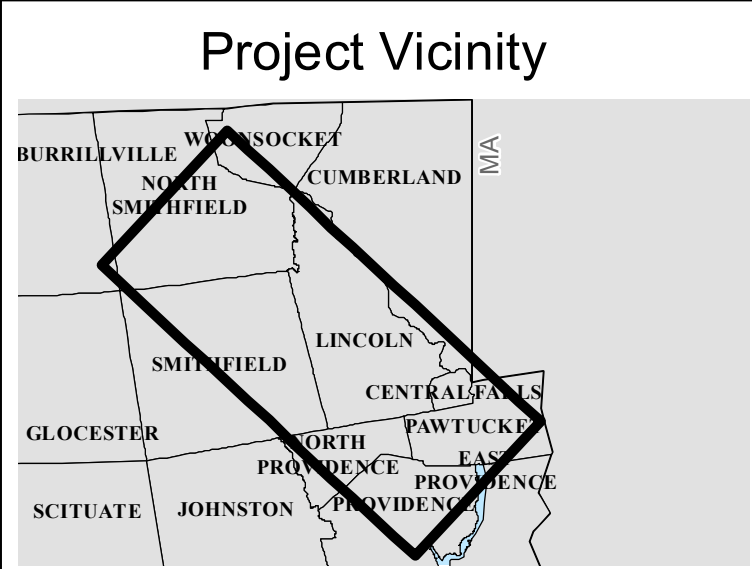
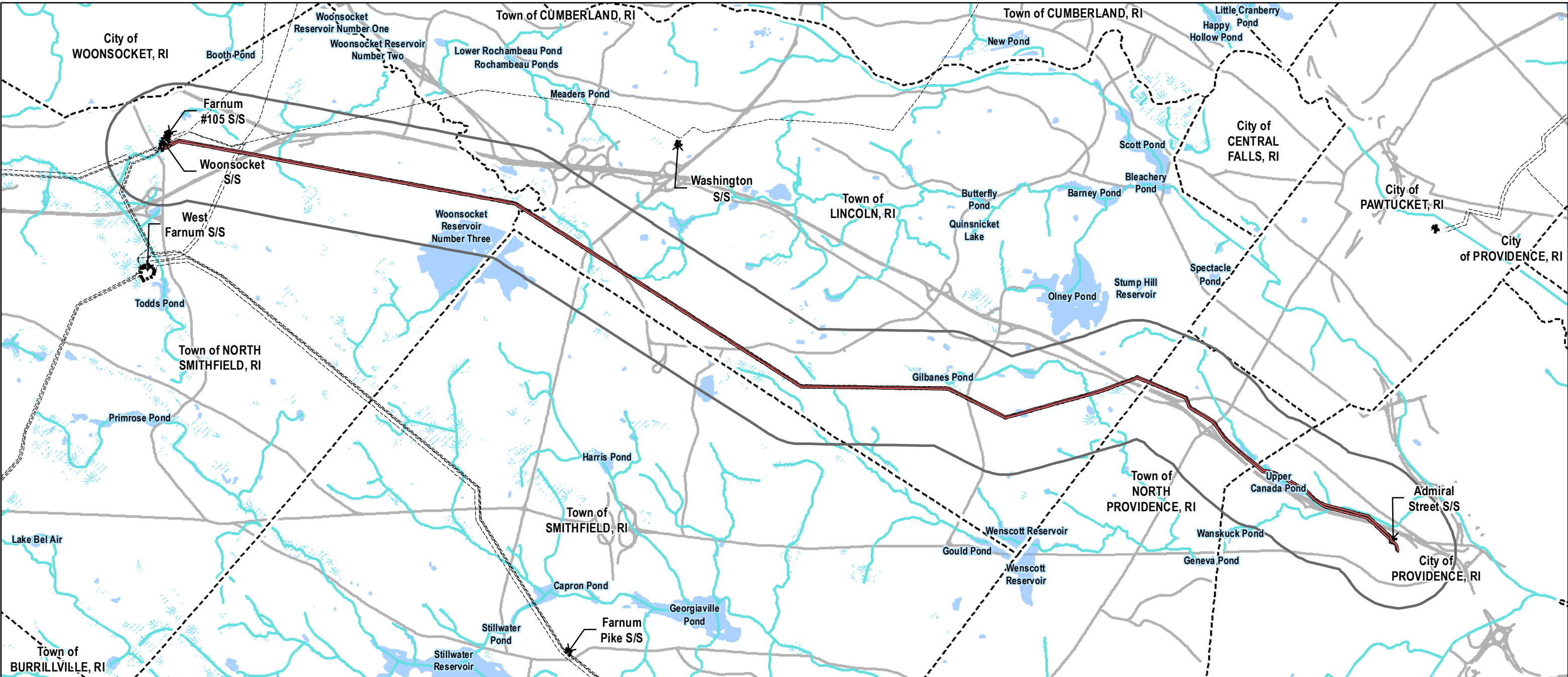
State of Rhode Island
Providence County:
City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

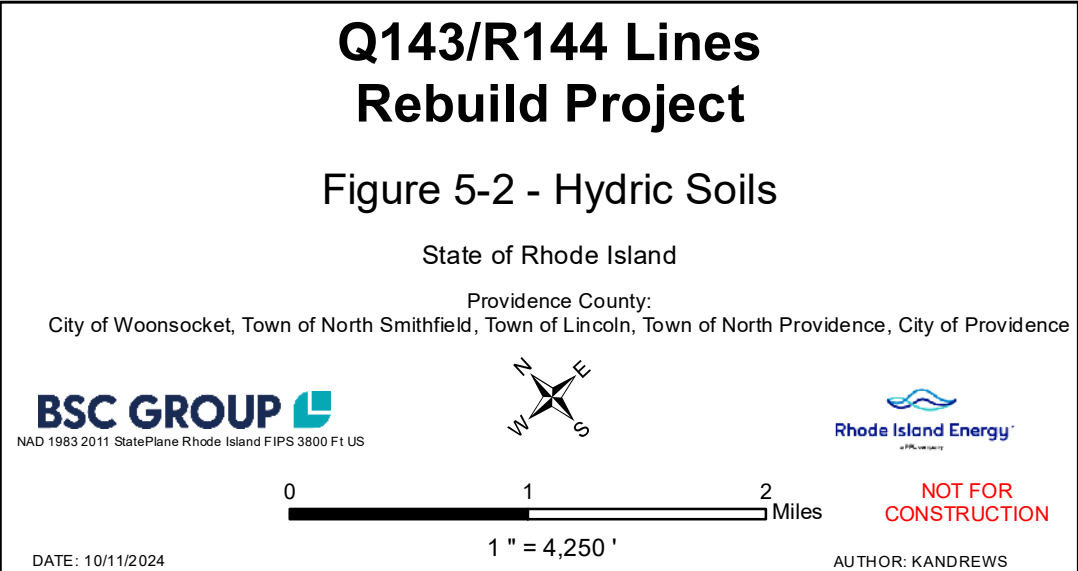
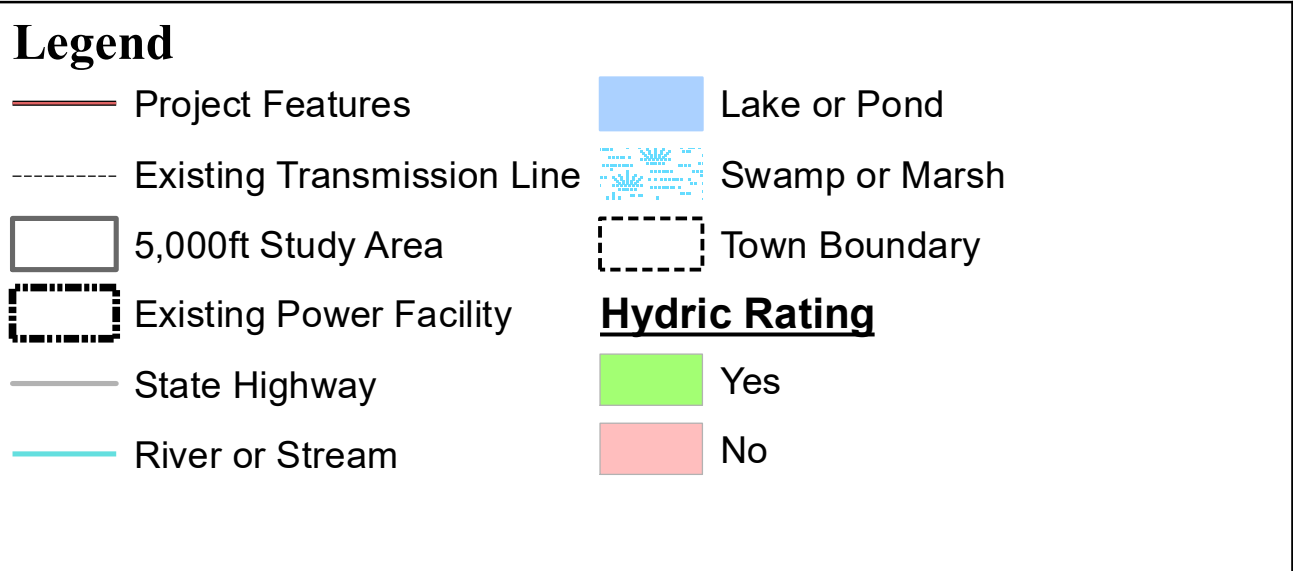
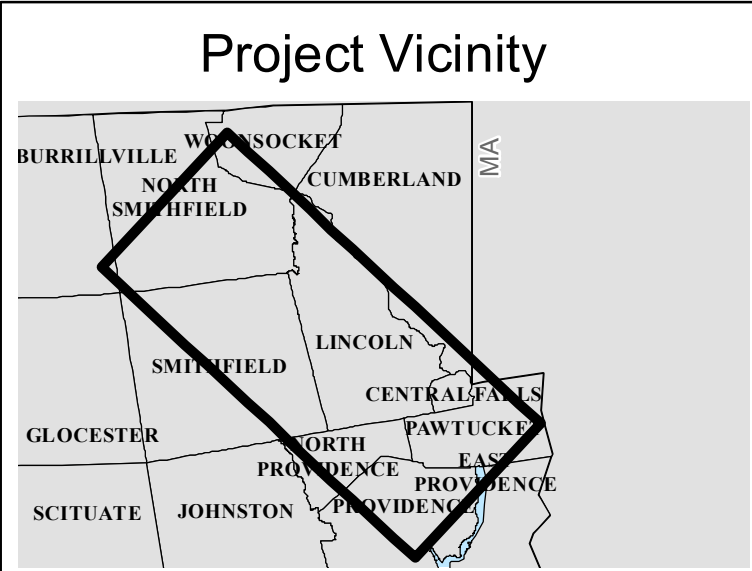
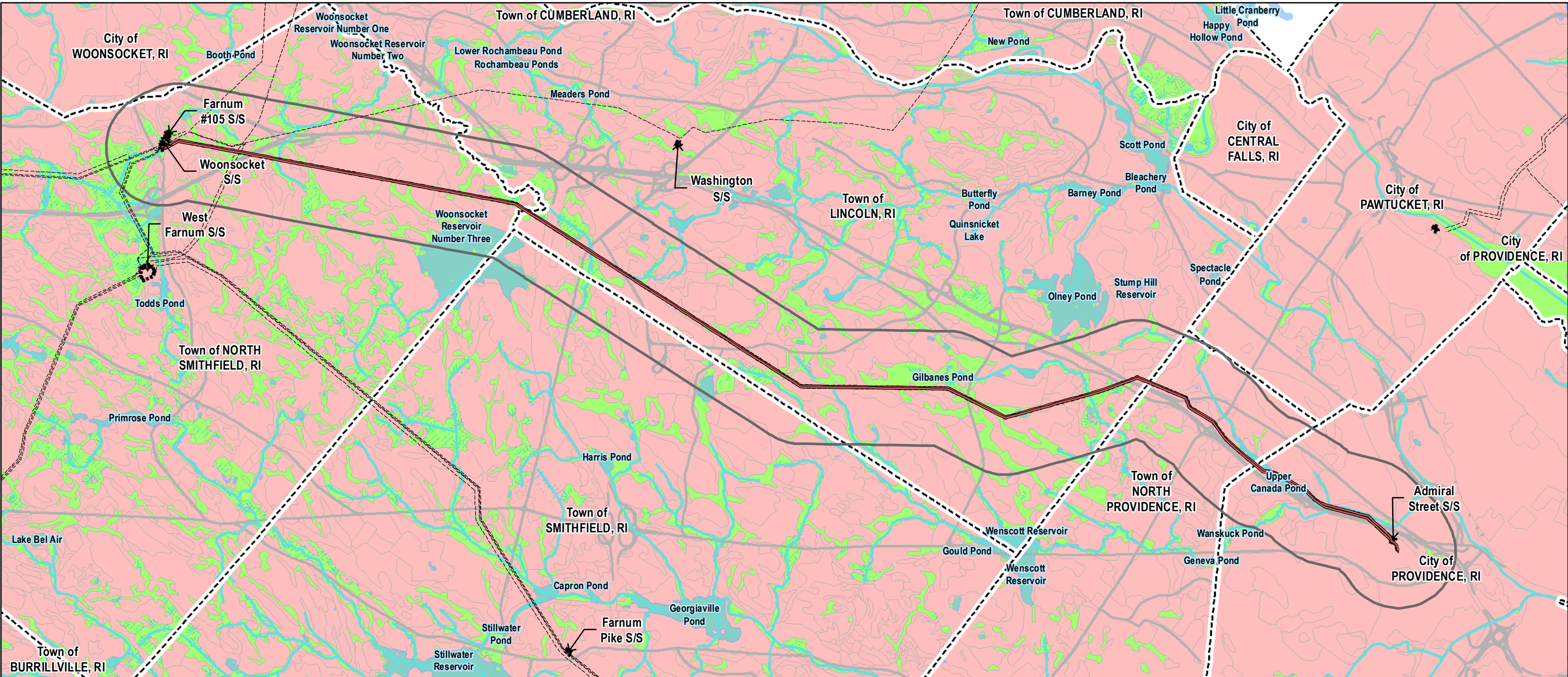


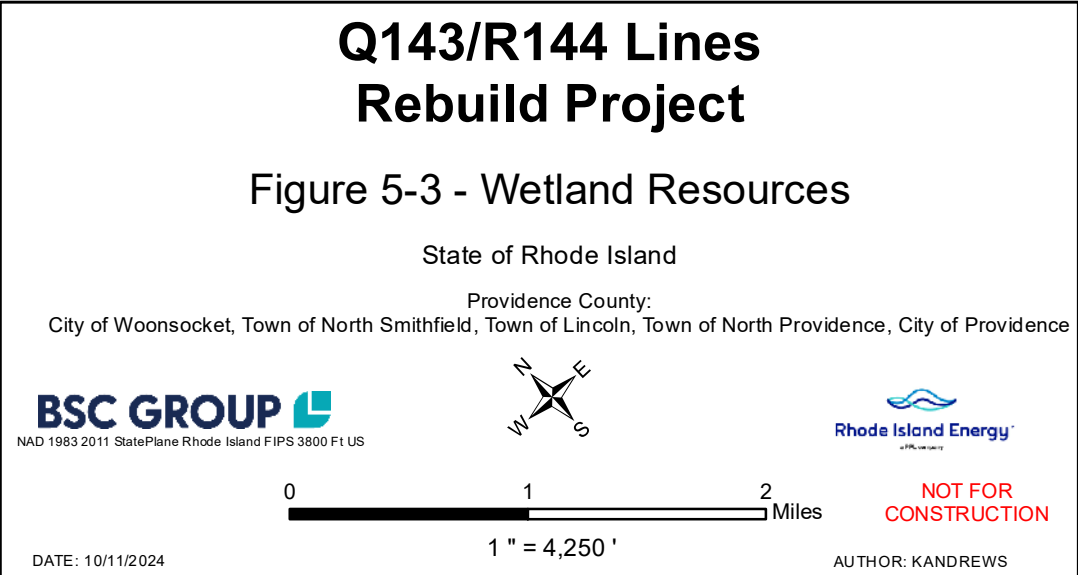
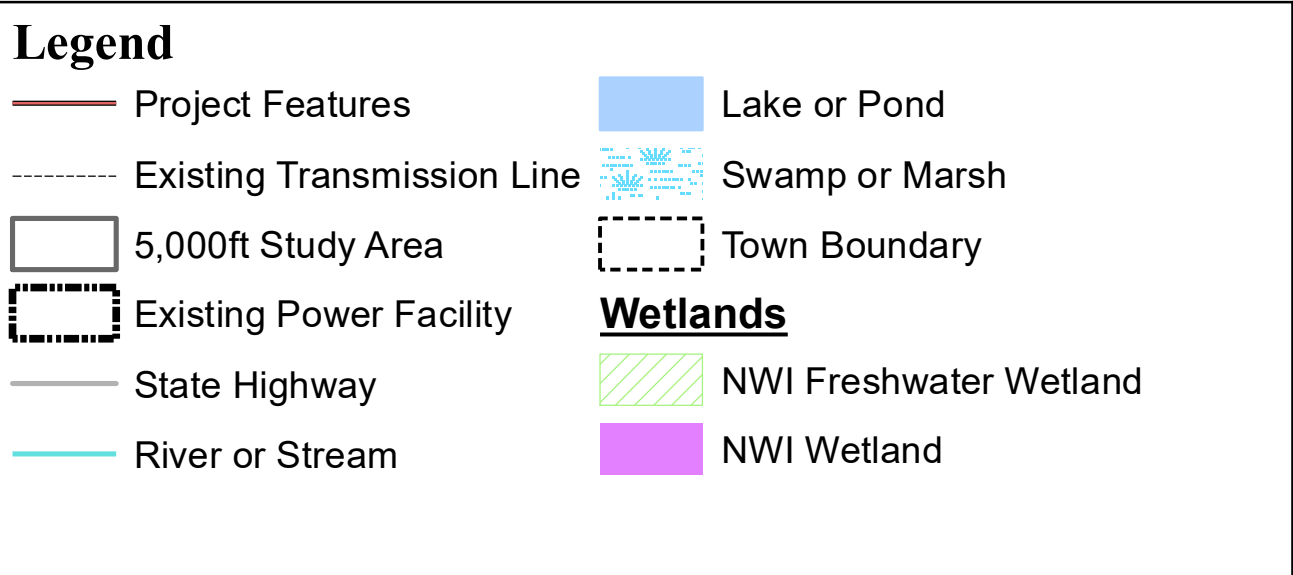
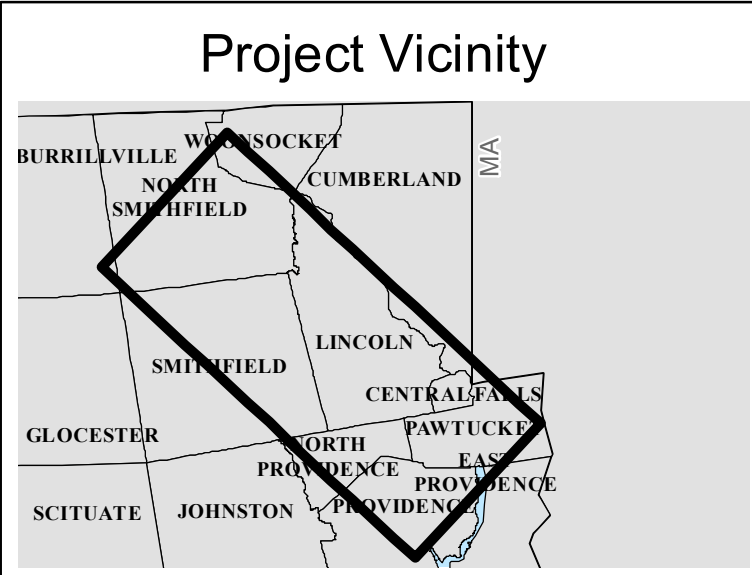
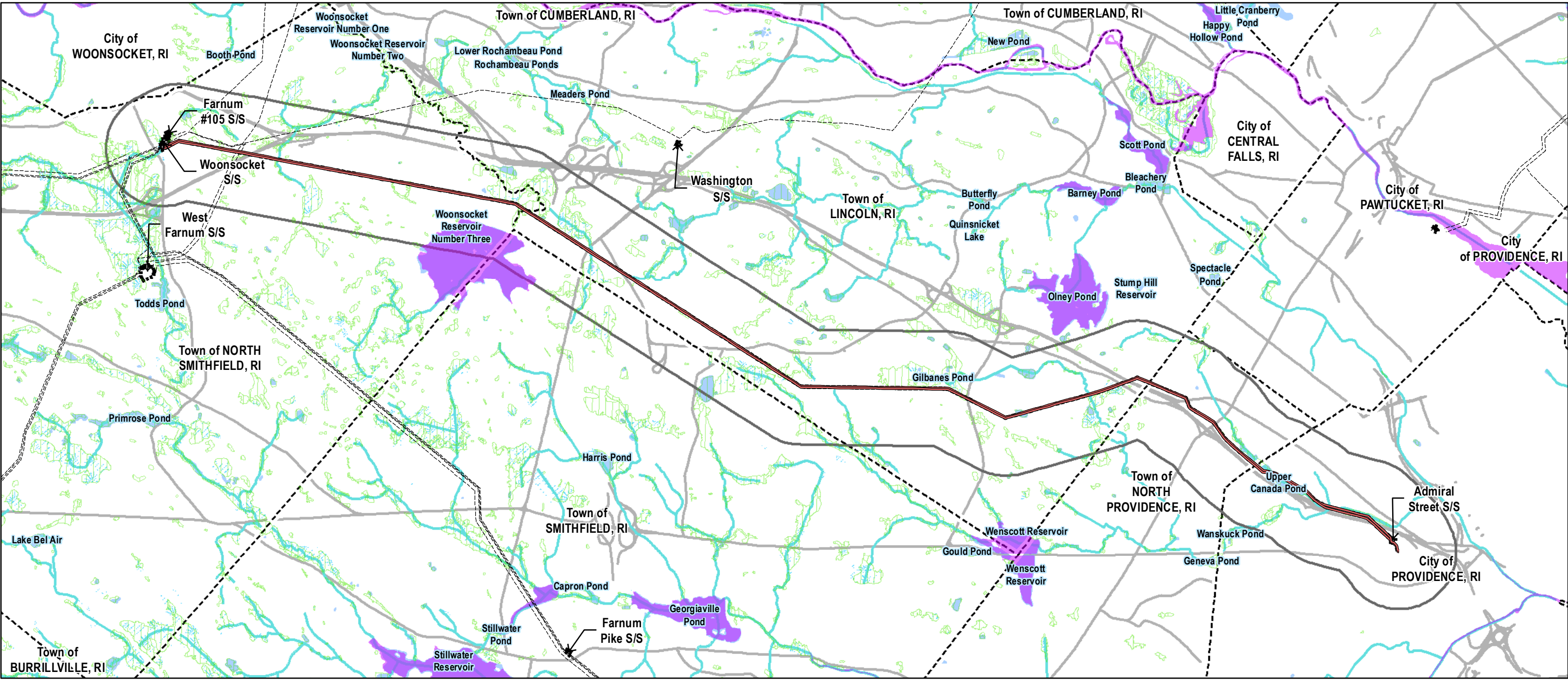
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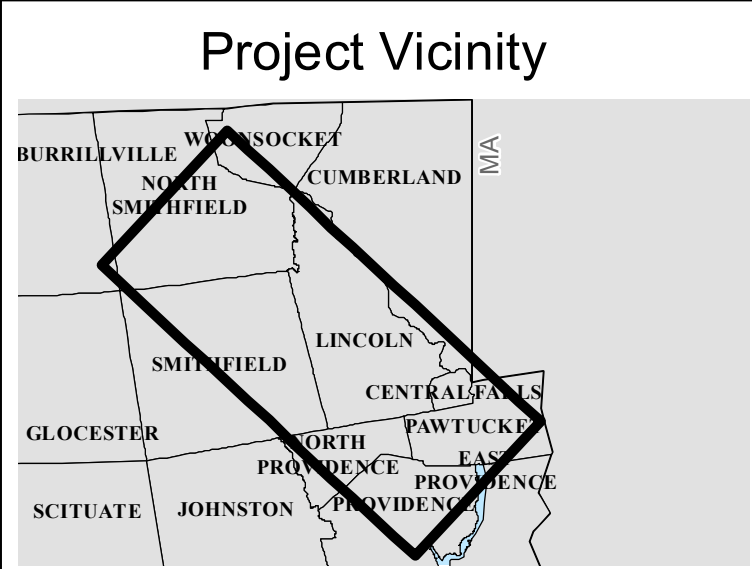
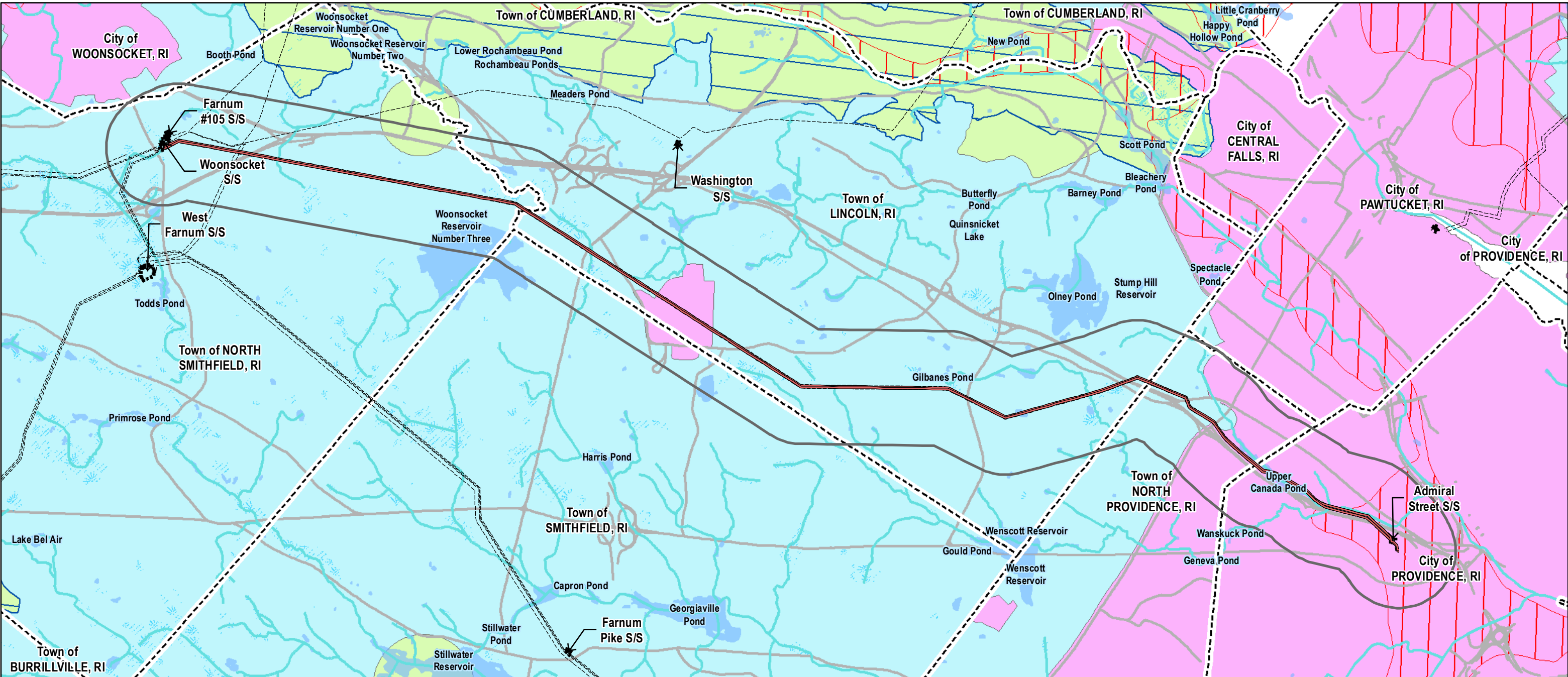
DATE: 4/14/2025

AUTHOR: KANDREWS









Legend

- Project Features
- Existing Transmission Line
- 5,000ft Study Area
- Existing Power Facility
- State Highway
- River or Stream
- Lake or Pond
- Swamp or Marsh
- Town Boundary
- Groundwater Reservoir
- Groundwater Recharge Areas

Groundwater Quality Standard

- GA
- GAA
- GB

Q143/R144 Lines Rebuild Project

Figure 5-4 - Groundwater Resources

State of Rhode Island
Providence County:
City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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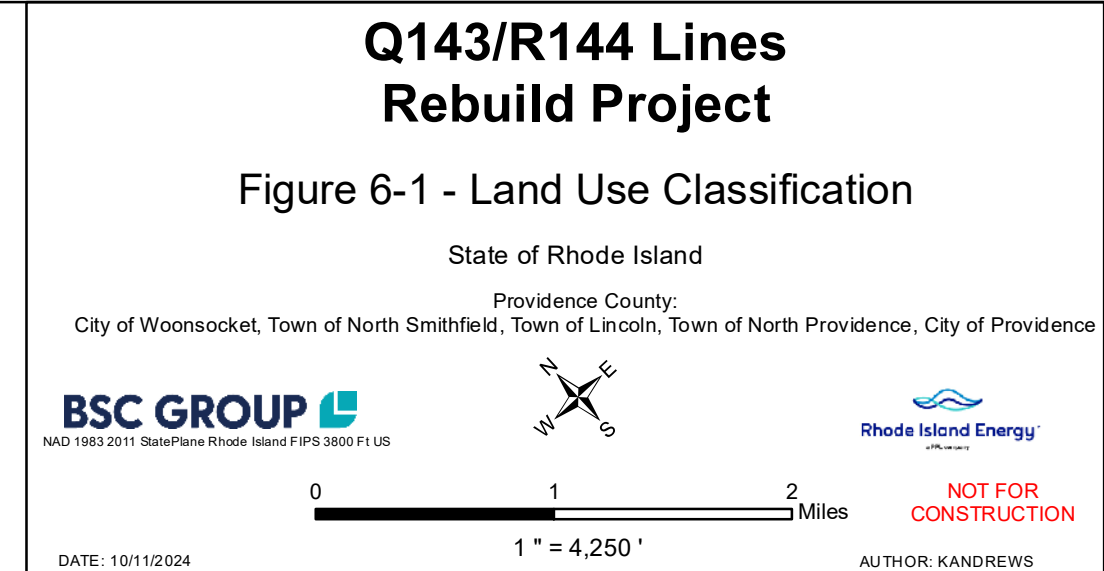
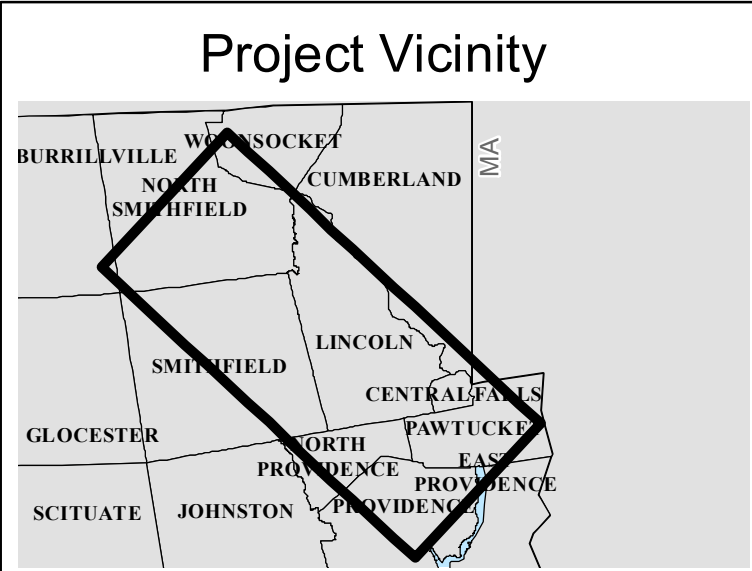
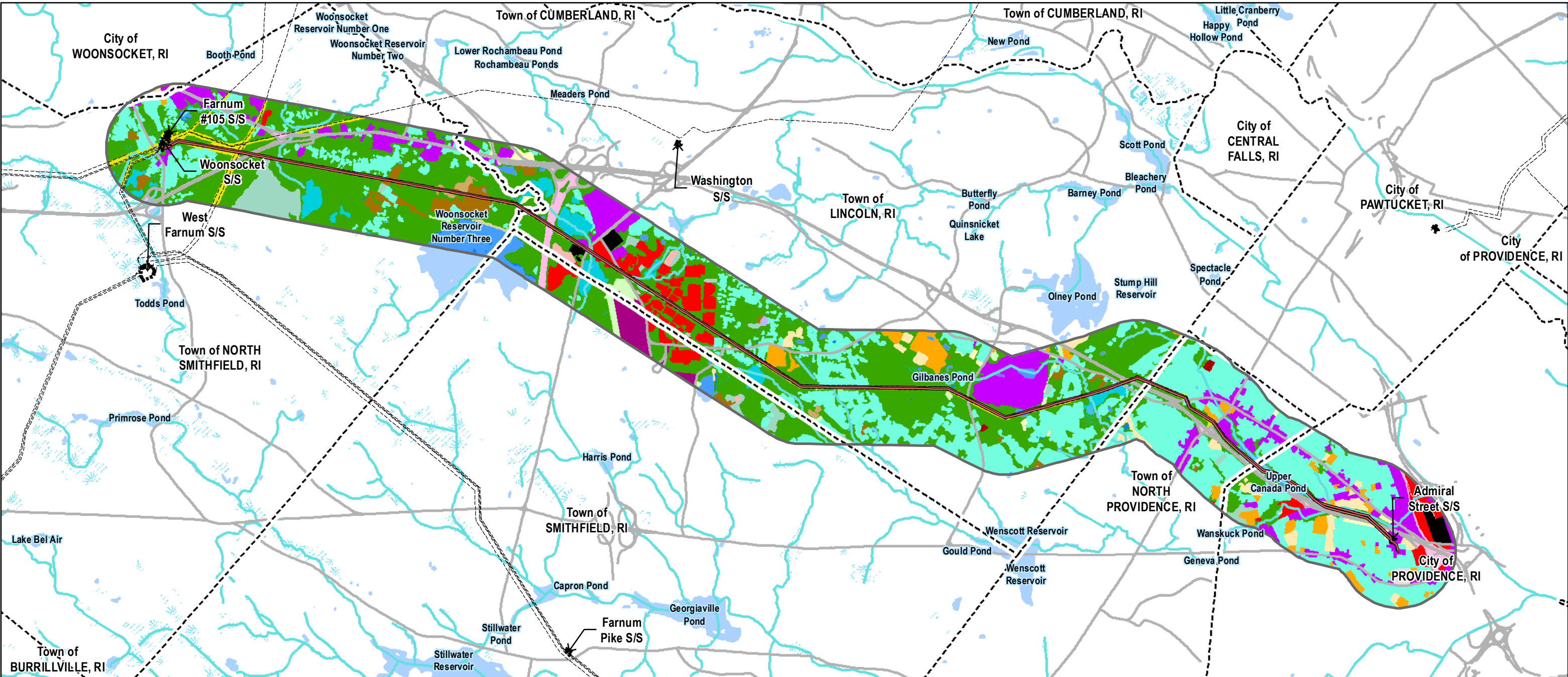
Rhode Island Energy
a BP company

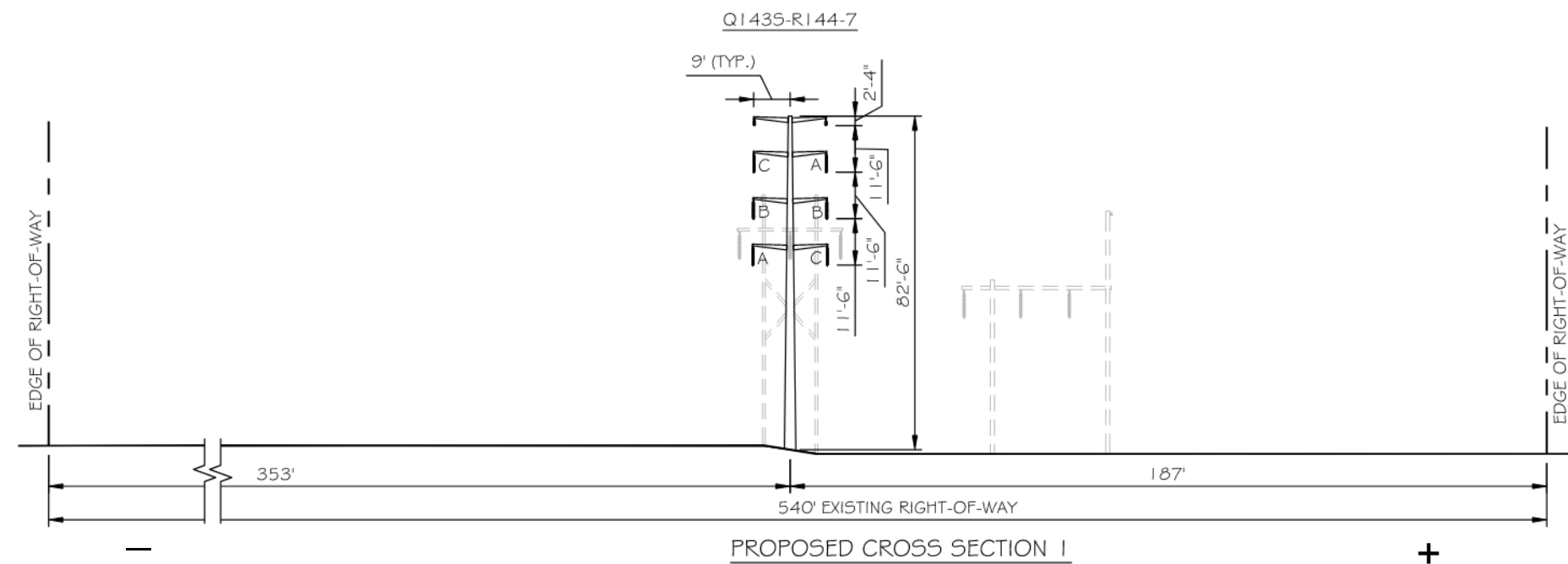
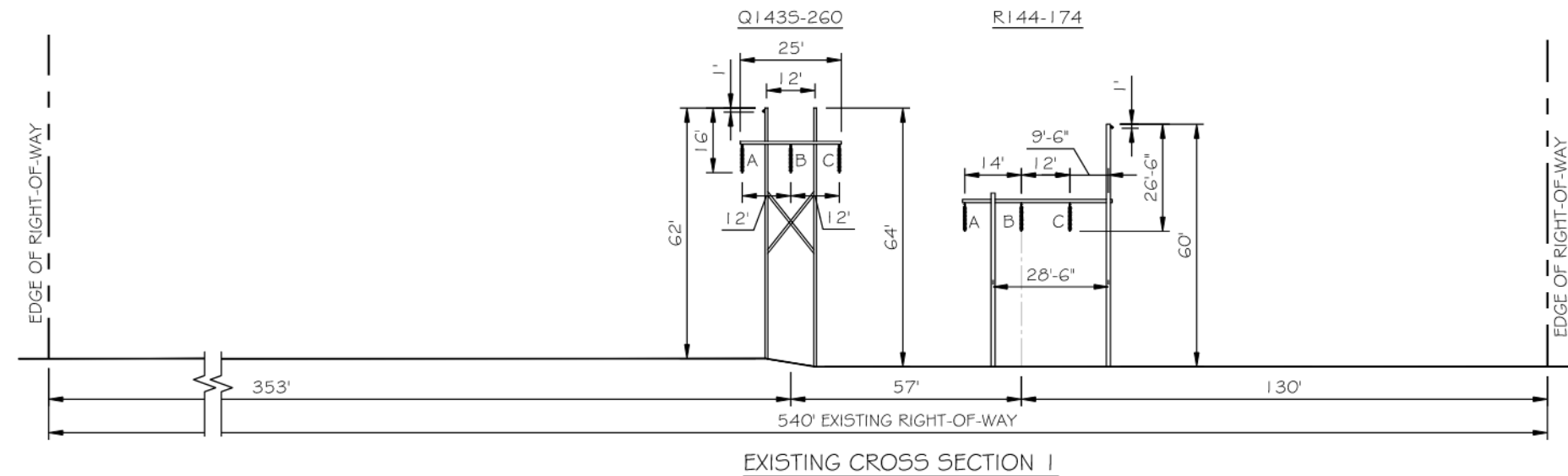
DATE: 10/11/2024

1" = 4,250'

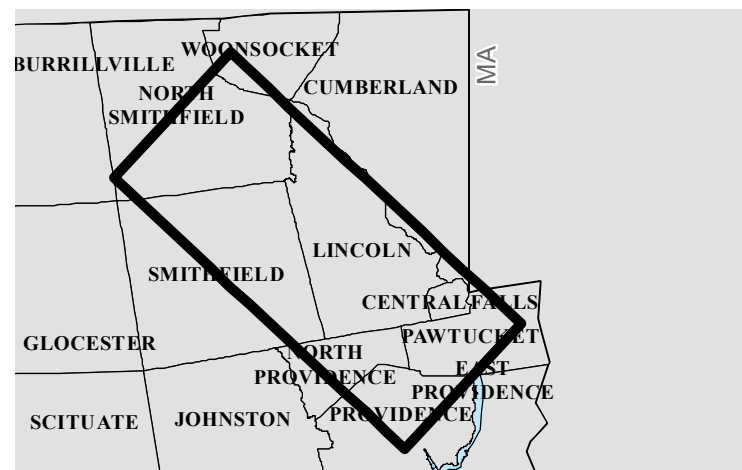
AUTHOR: KANDREWS

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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 1

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

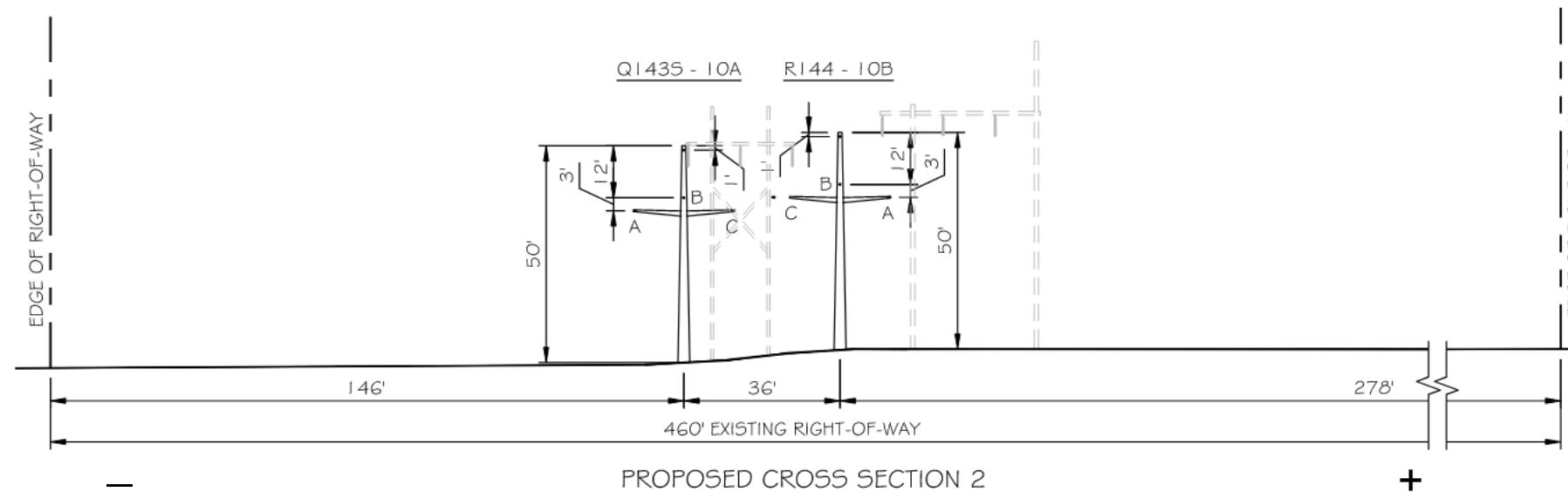
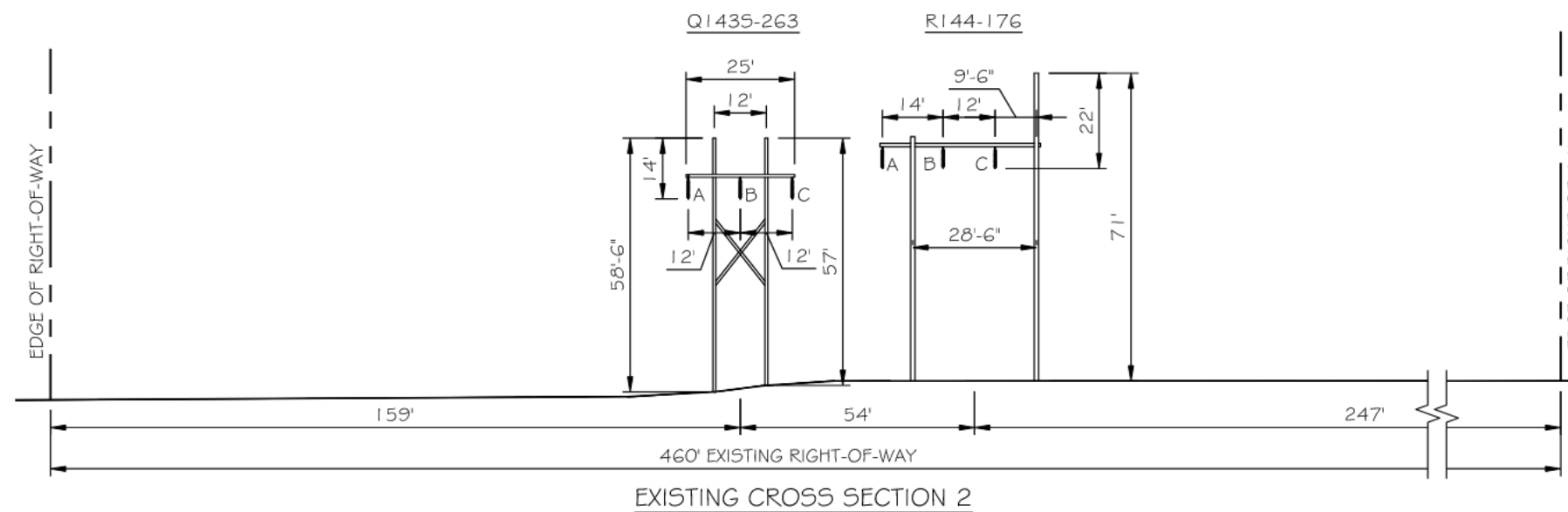
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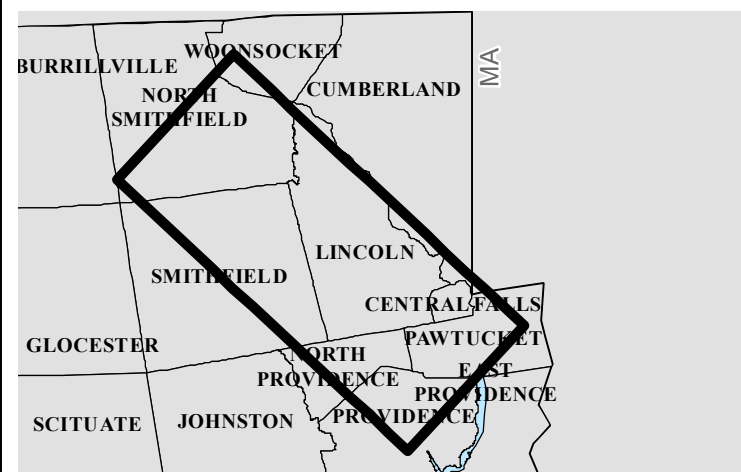
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CONSTRUCTION**

DATE: 4/14/2025

AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 2

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

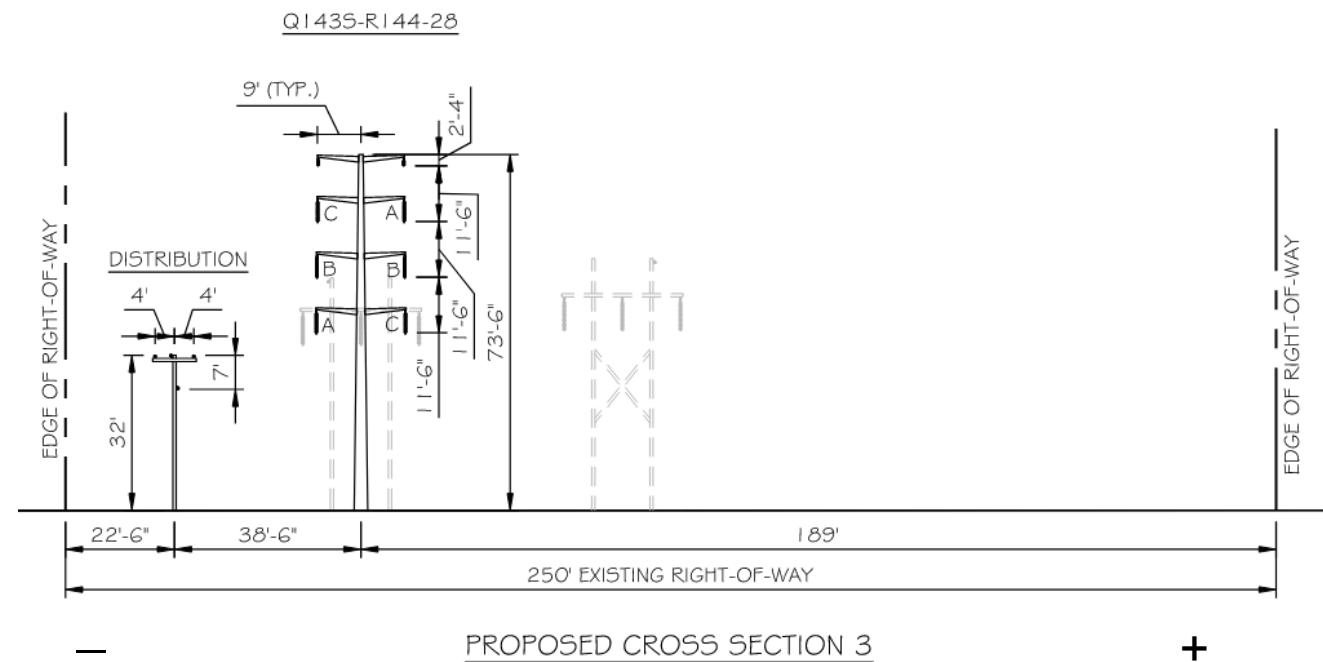
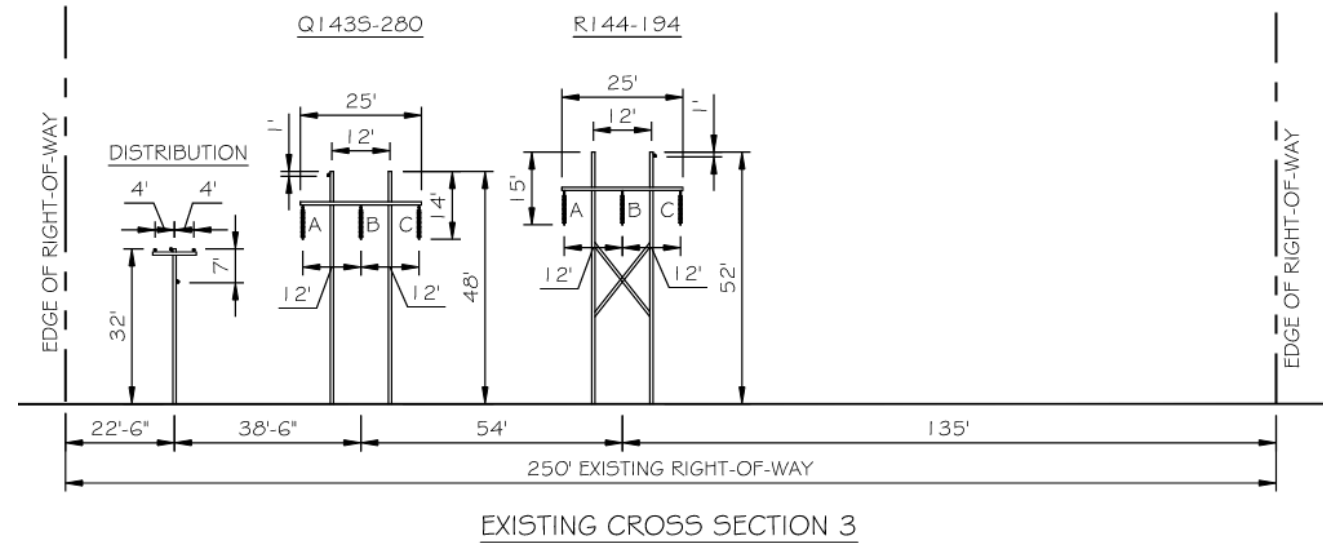
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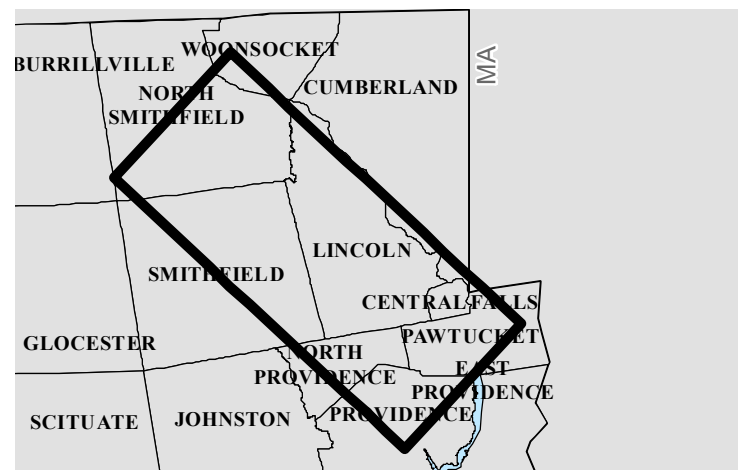
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CONSTRUCTION

DATE: 4/14/2025

AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 3

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

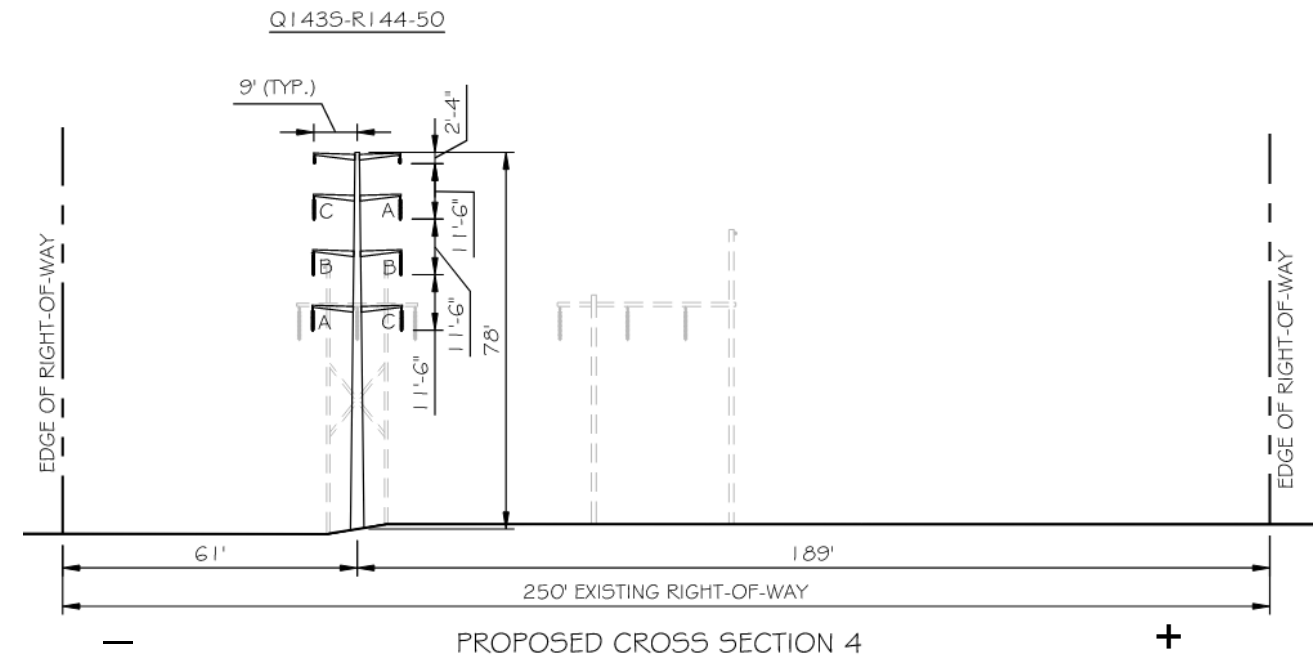
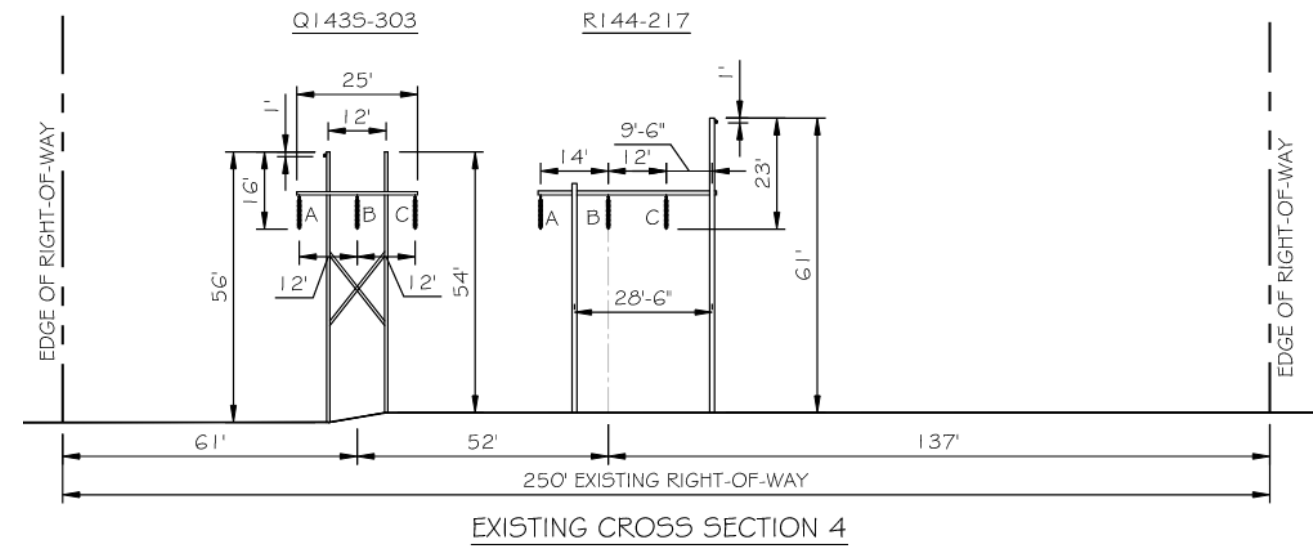
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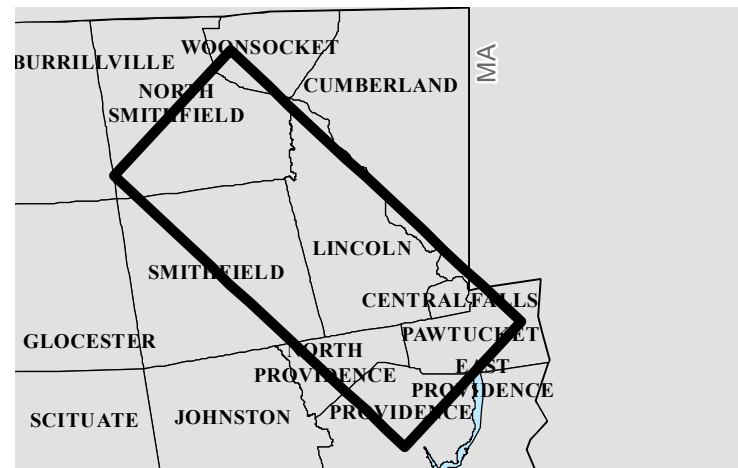
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CONSTRUCTION

DATE: 4/14/2025

AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 4

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

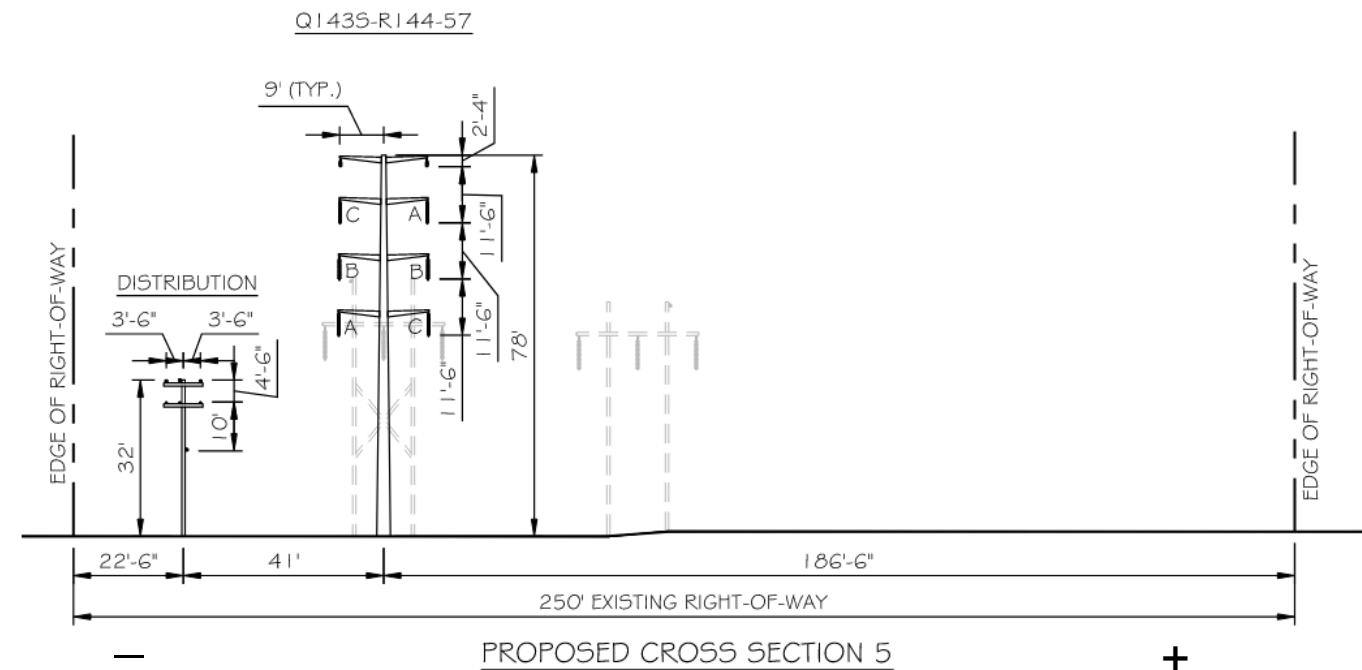
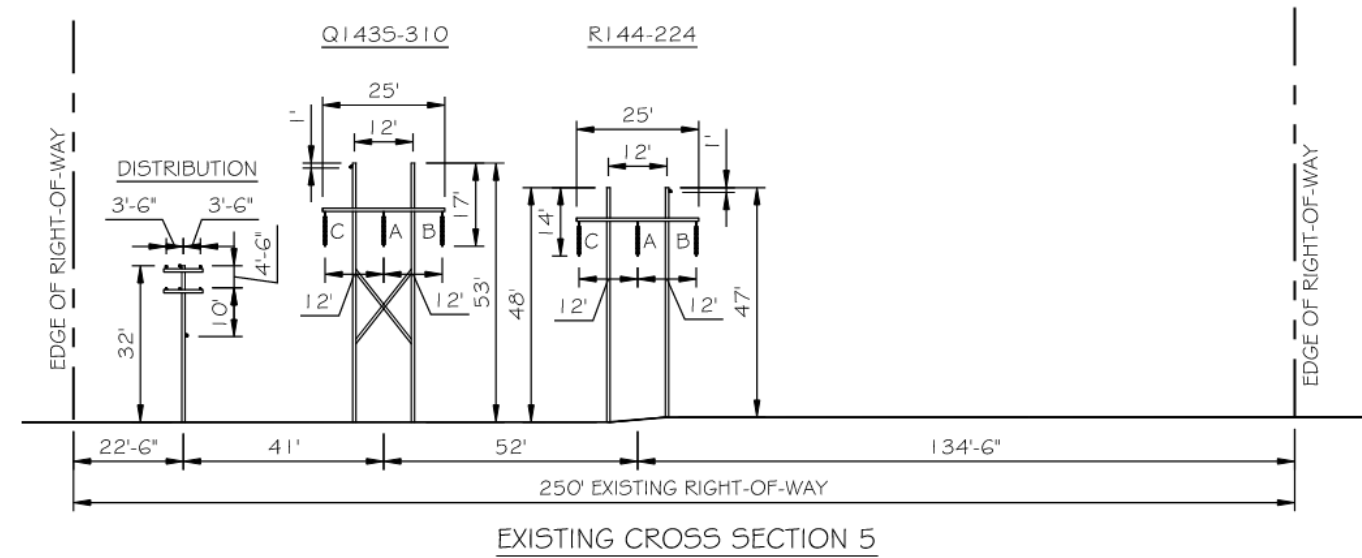
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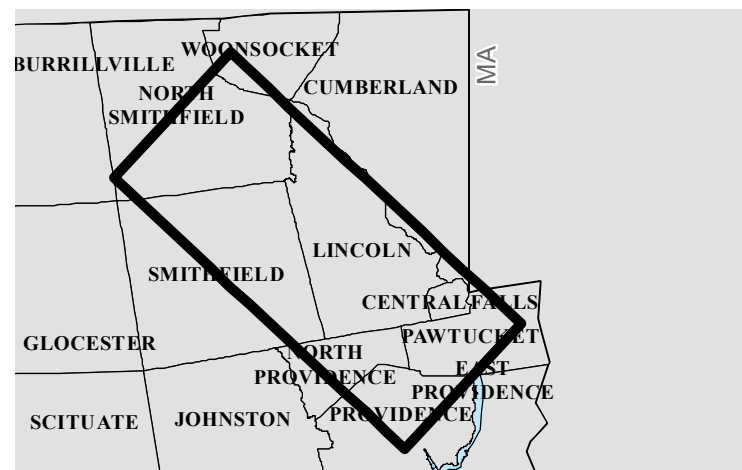
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CONSTRUCTION

DATE: 4/14/2025

AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 5

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

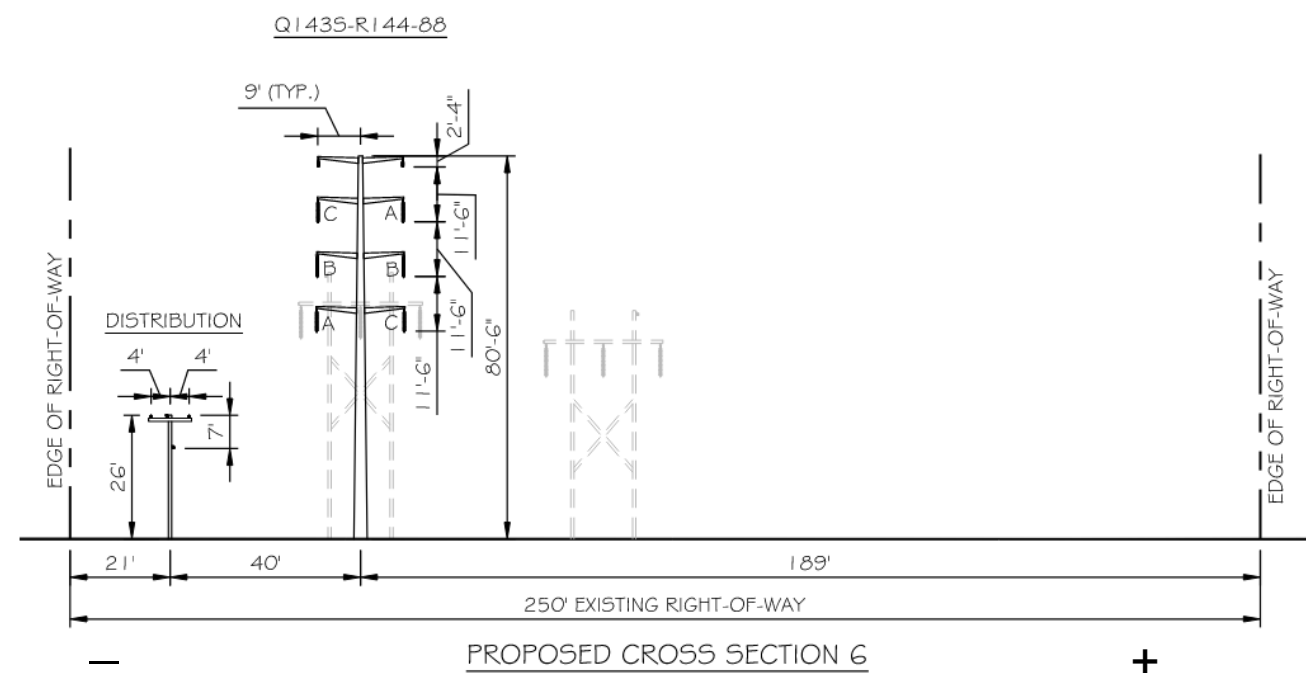
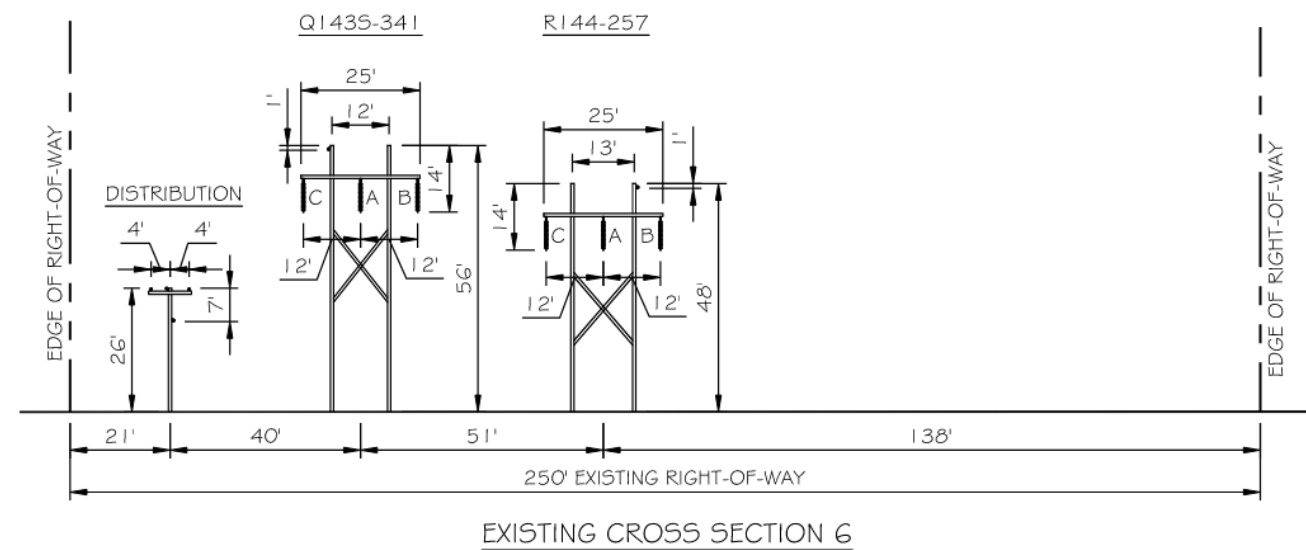
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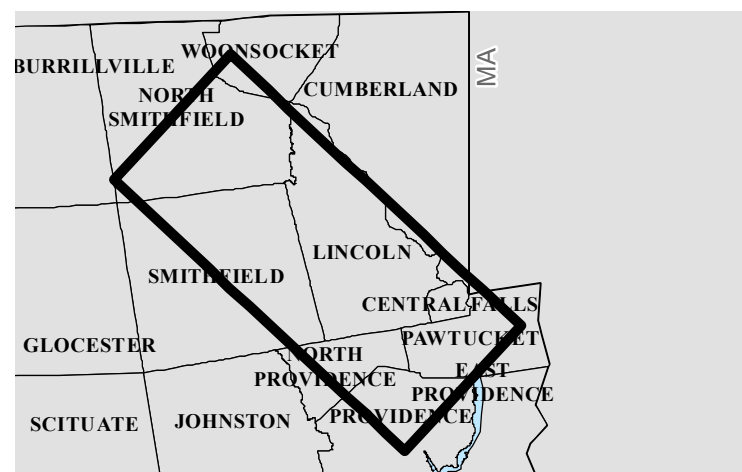
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 6

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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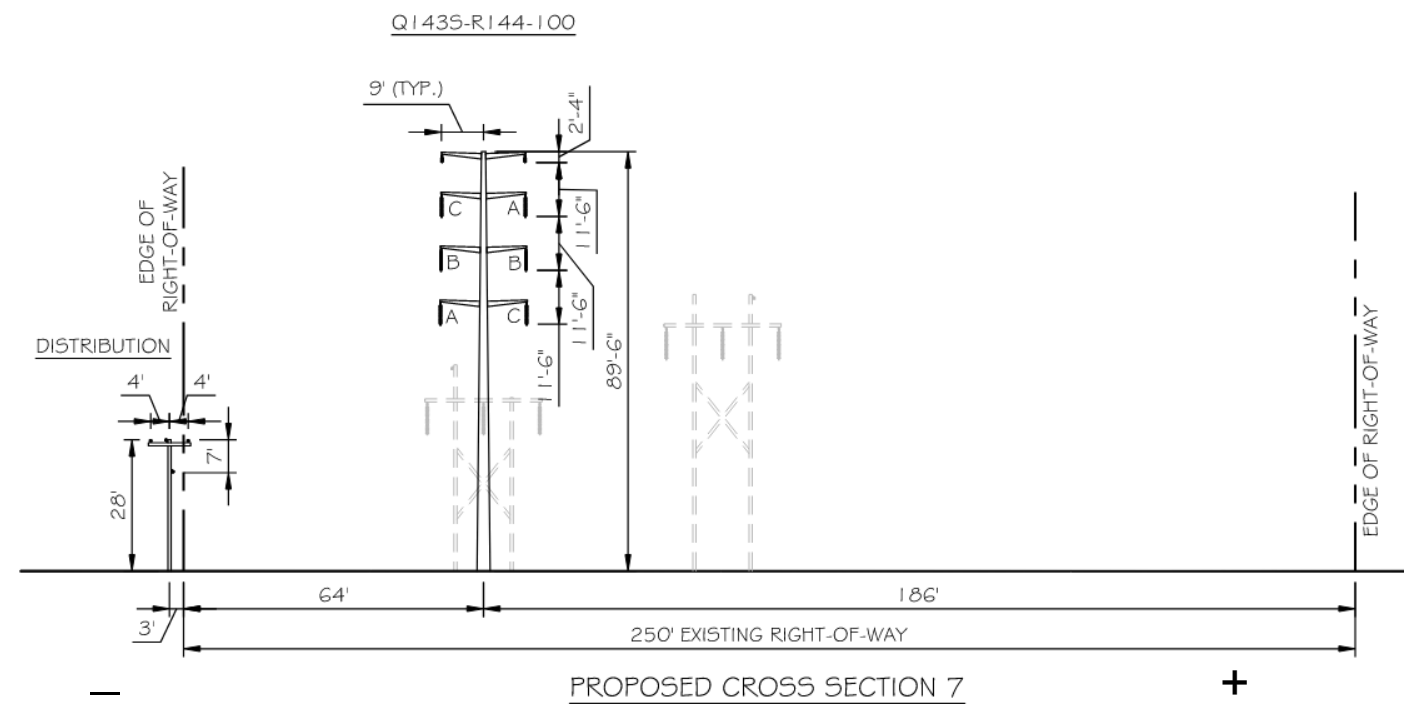
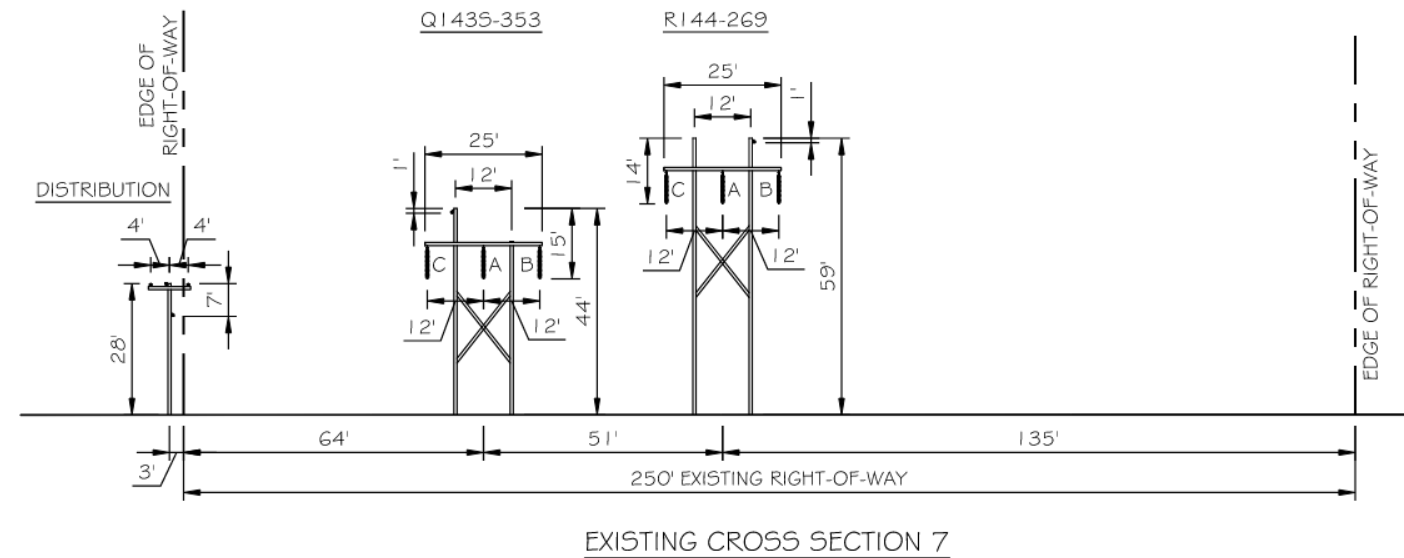
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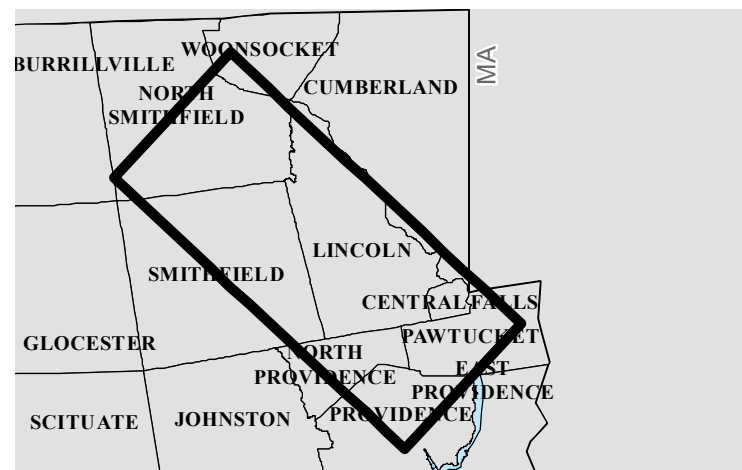
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 7

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

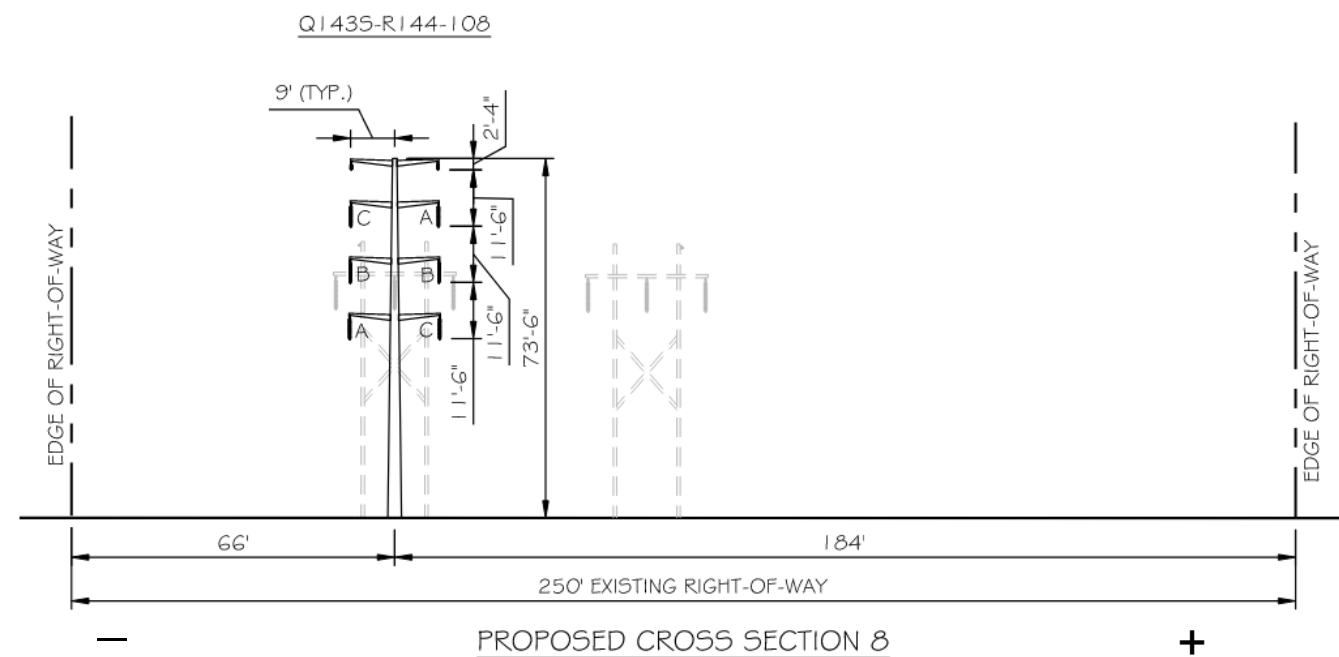
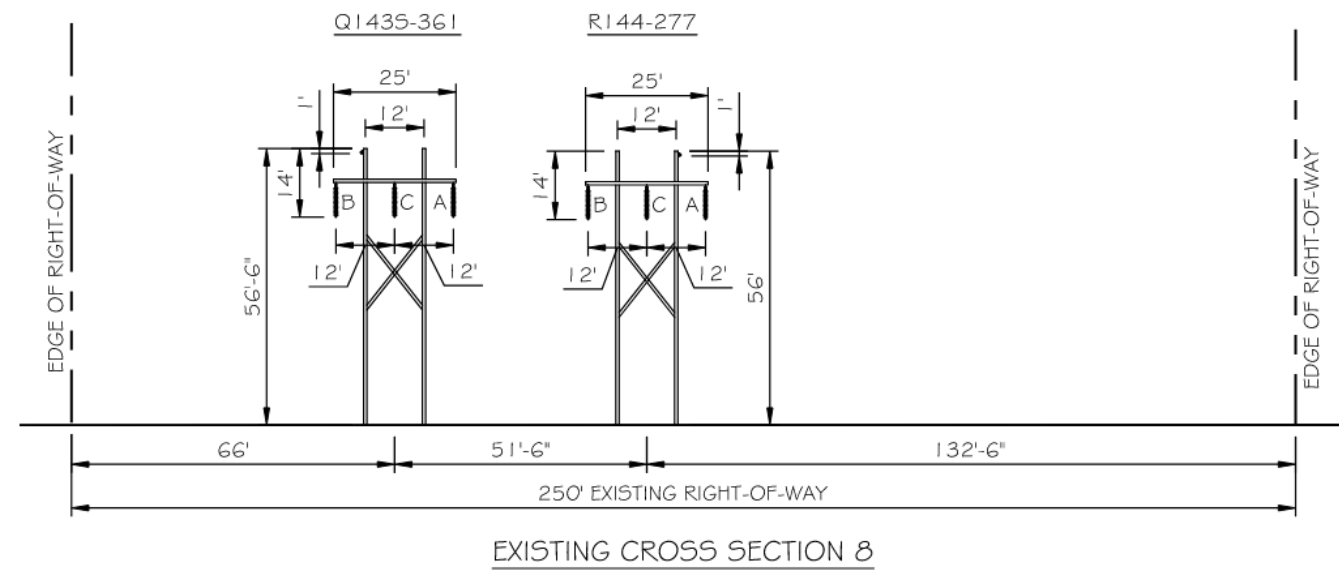
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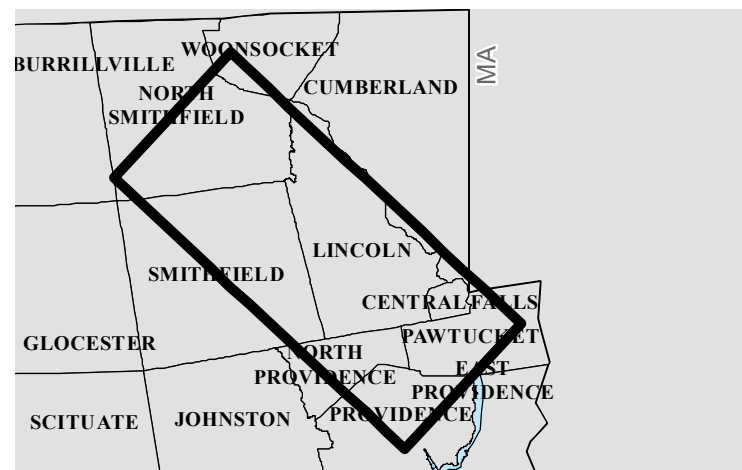
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AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 8

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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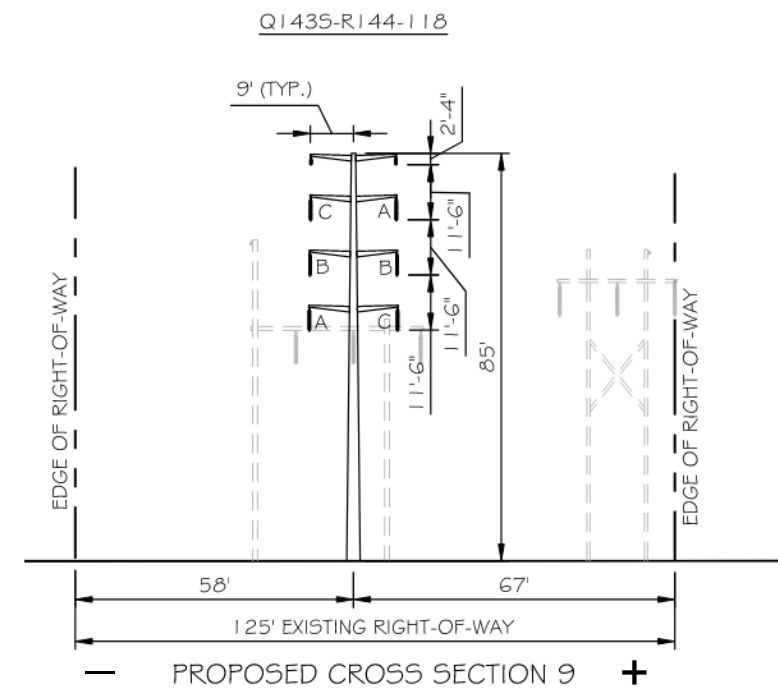
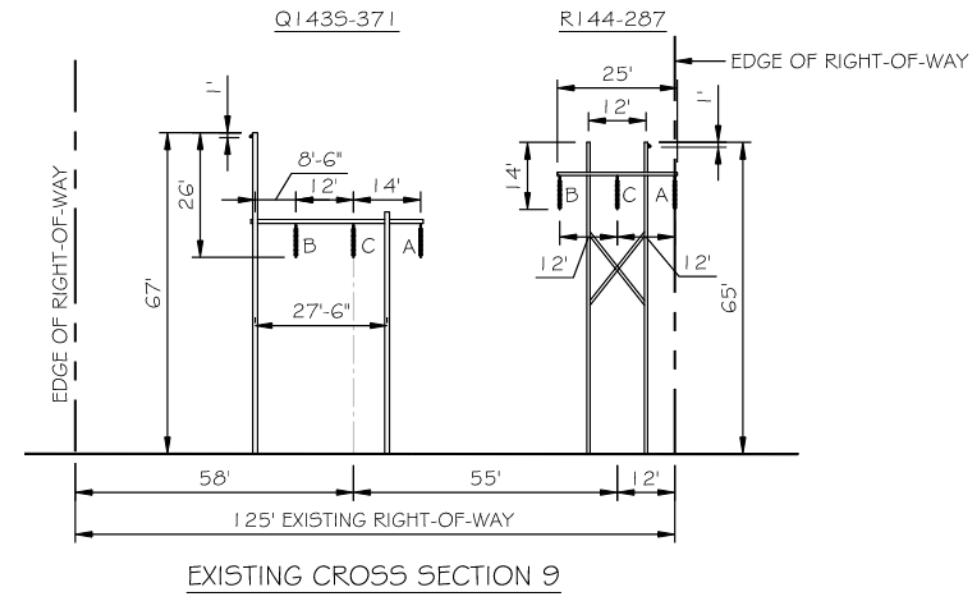
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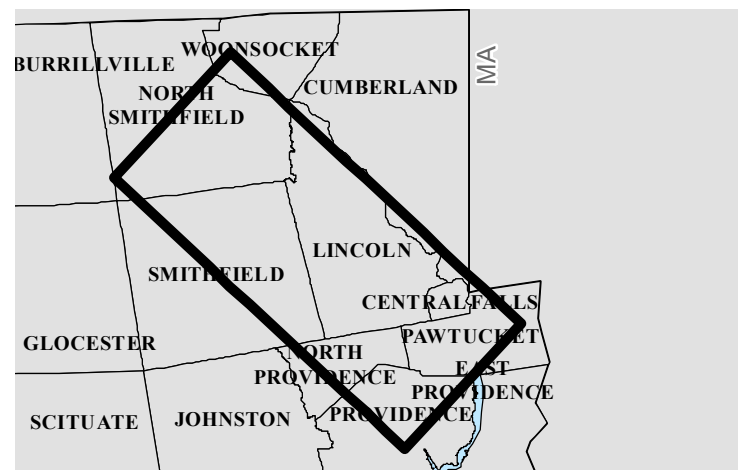
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AUTHOR: KANDREWS



Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 9

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

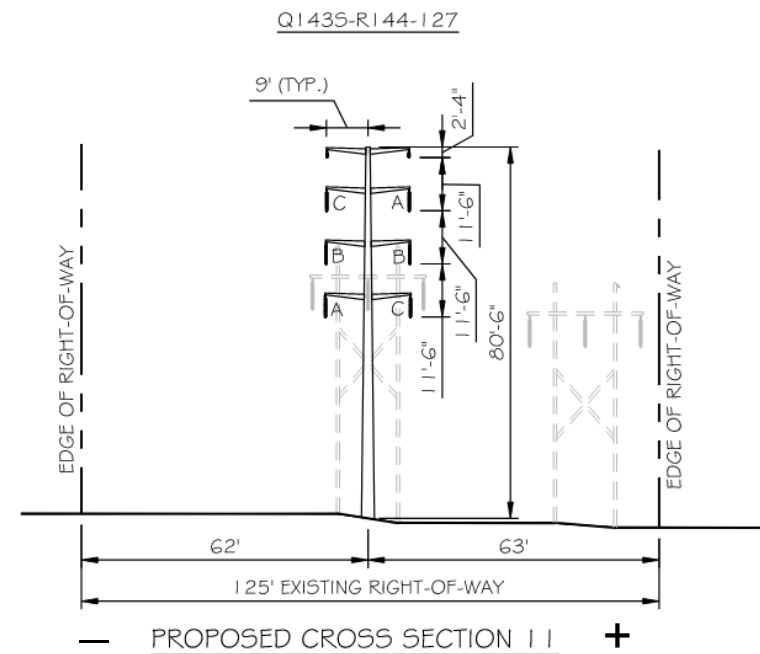
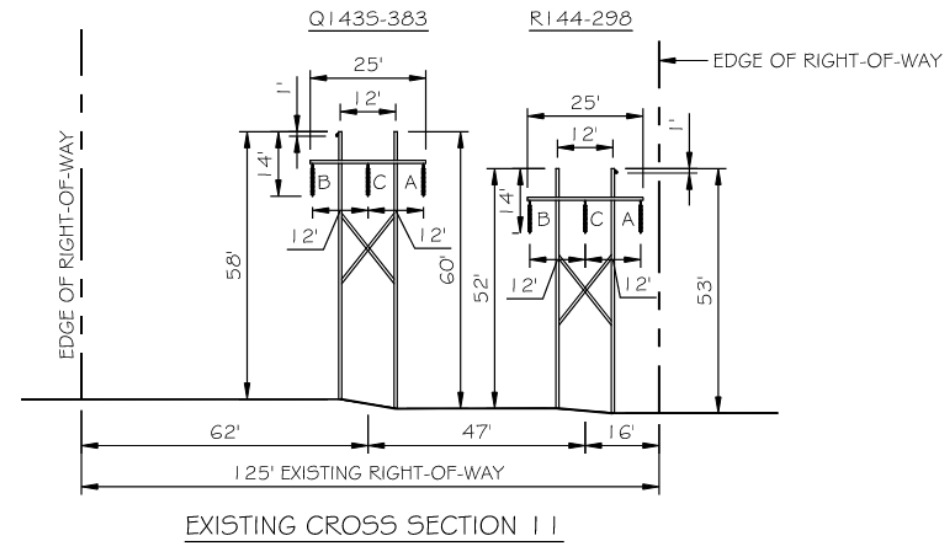
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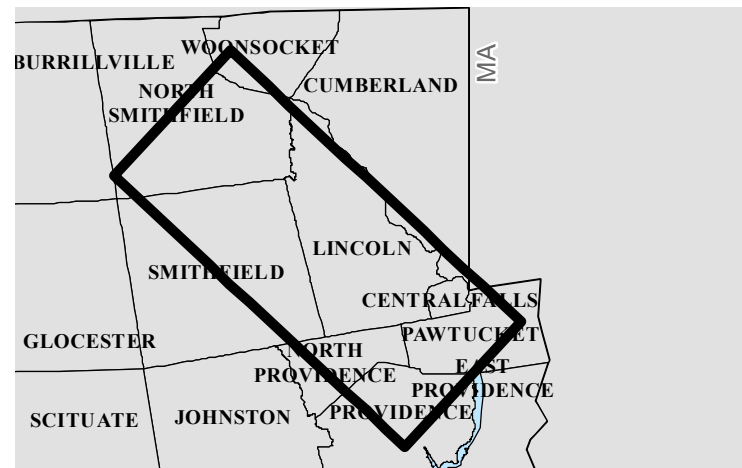
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 11

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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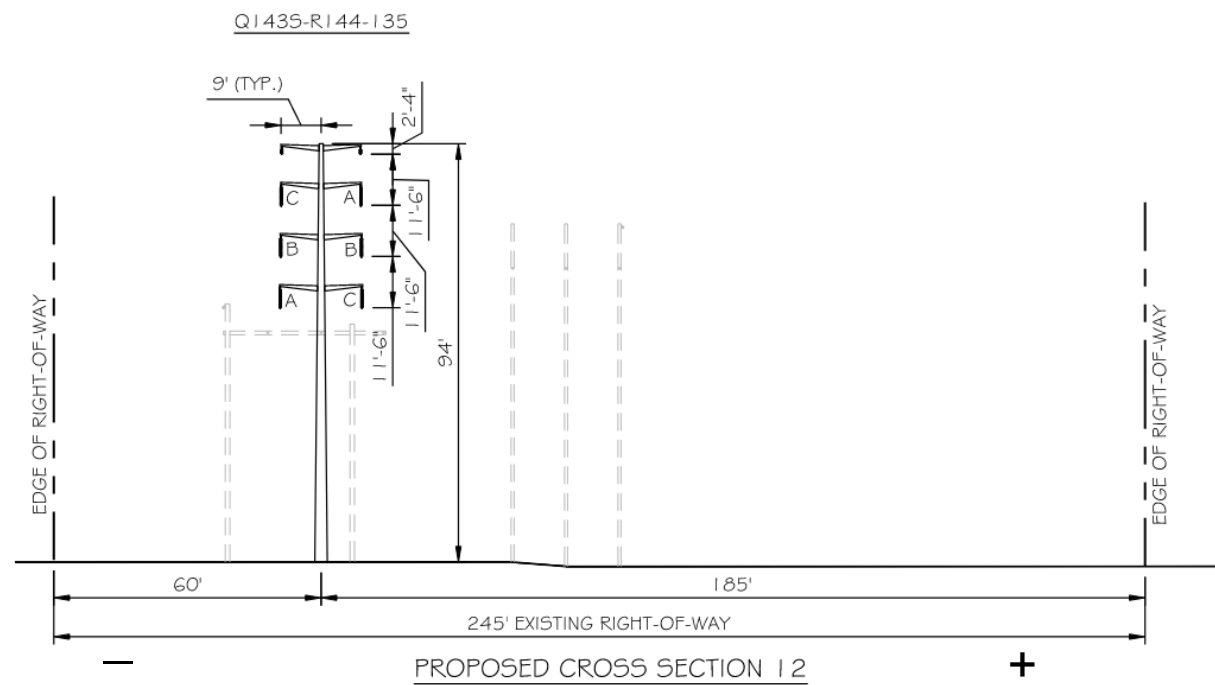
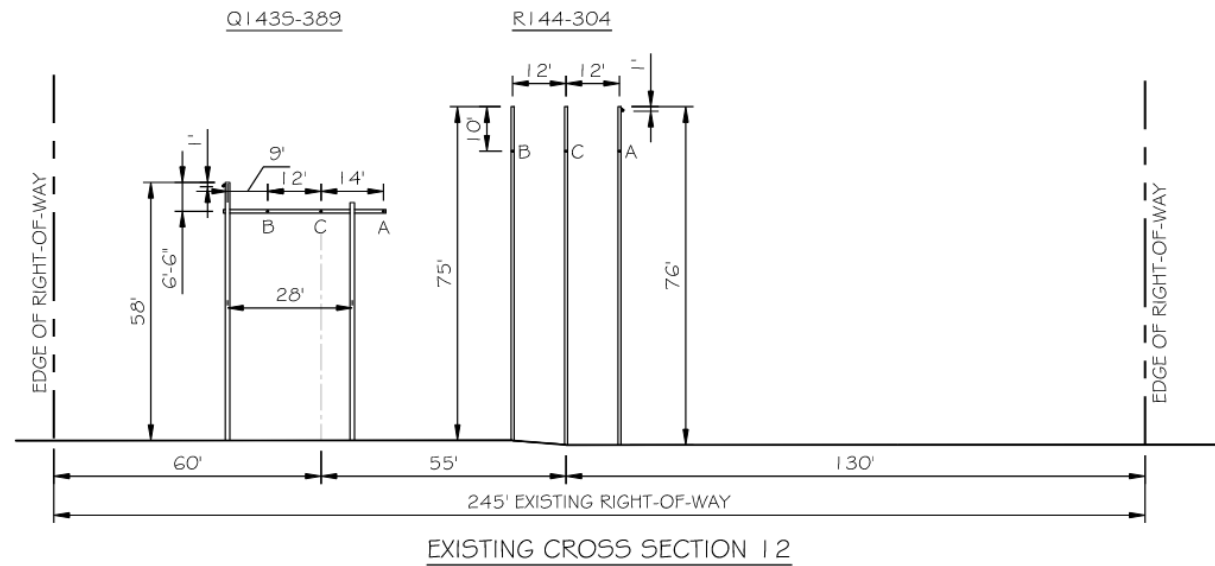
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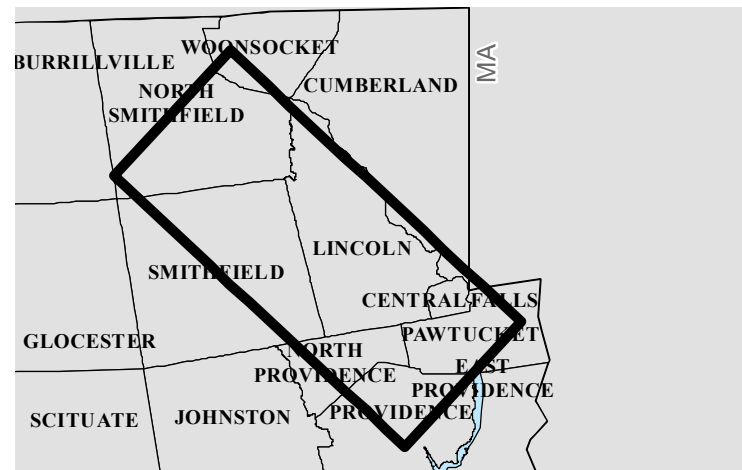
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 12

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

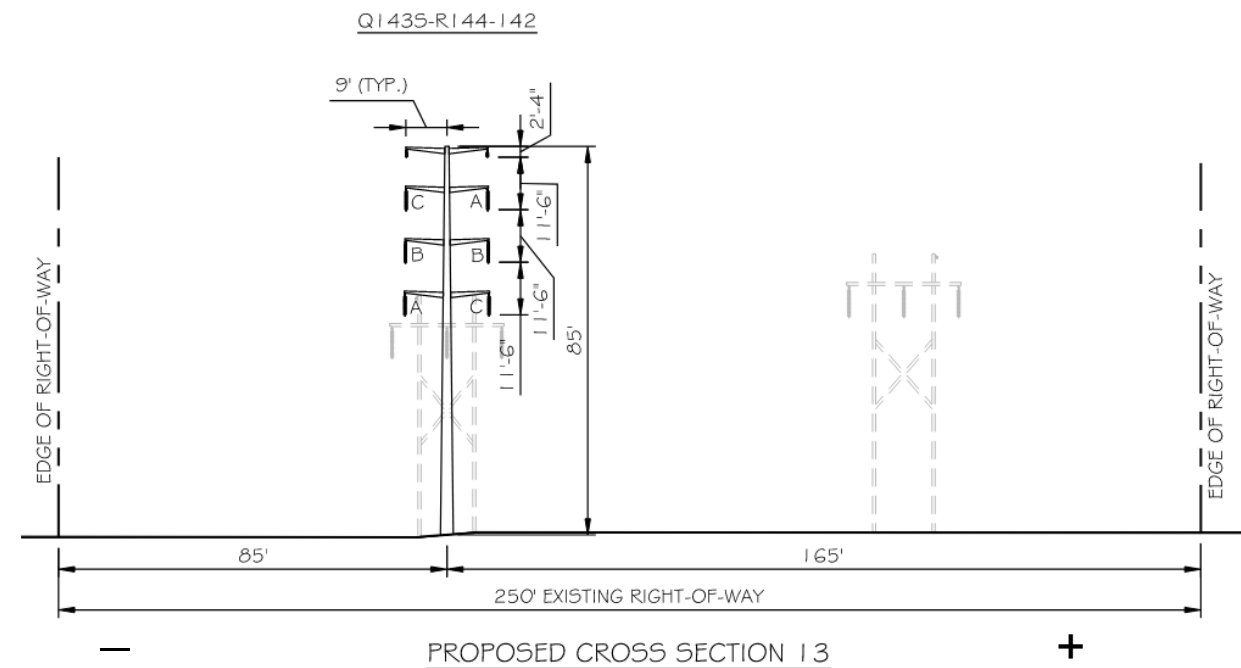
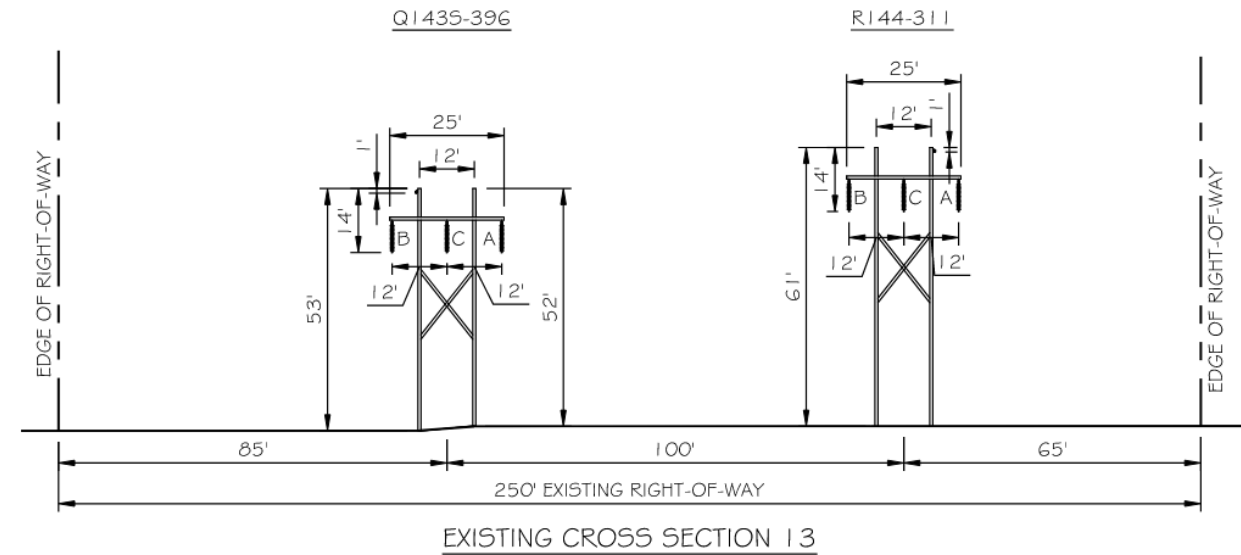
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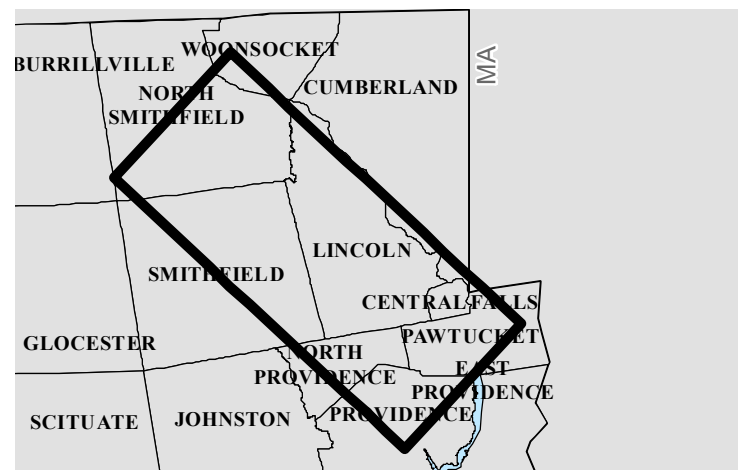
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Project Vicinity



Q143/R144 Lines Rebuild Project

Figure 7-1 - Typical Cross Section Details - Page 13

State of Rhode Island

Providence County:

City of Woonsocket, Town of North Smithfield, Town of Lincoln, Town of North Providence, City of Providence

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