Legend

- River Miles
- Groundwater Well
- Surface Gauge
- Streams
- Roads
- Parcel Boundary

Feet

0 500 1,000 2,000

Data sources:
USDA National Agriculture Imagery Program 2011
2012 LiDAR from Watershed Sciences, Inc.

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Gold Creek Monitoring Network Locations

Northeast of Snoqualmie Pass
Kittitas County, Washingon

FIGURE 1 – Monitoring network locations

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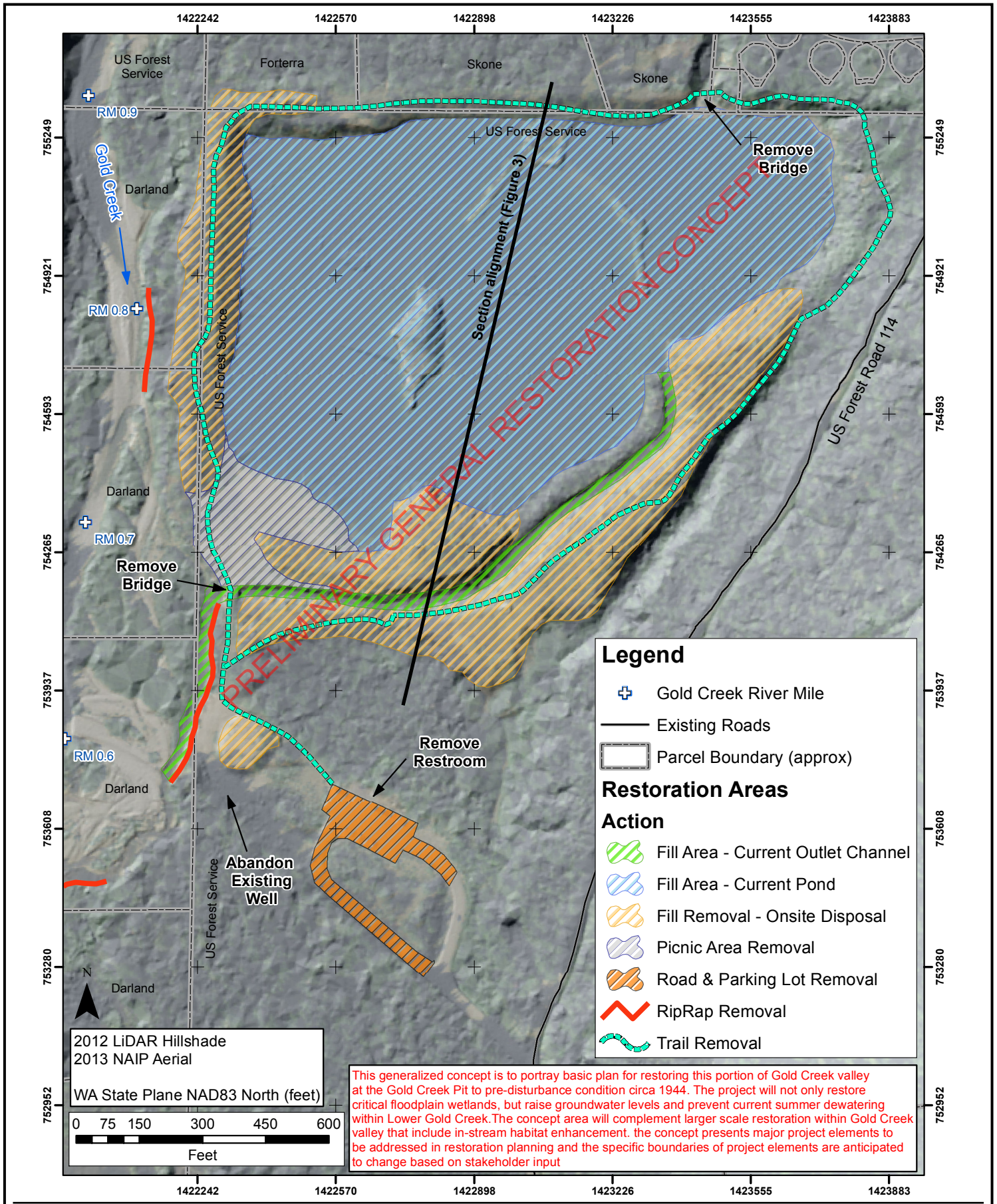

FIGURE 2 – Gold Creek Pond Restoration Actions

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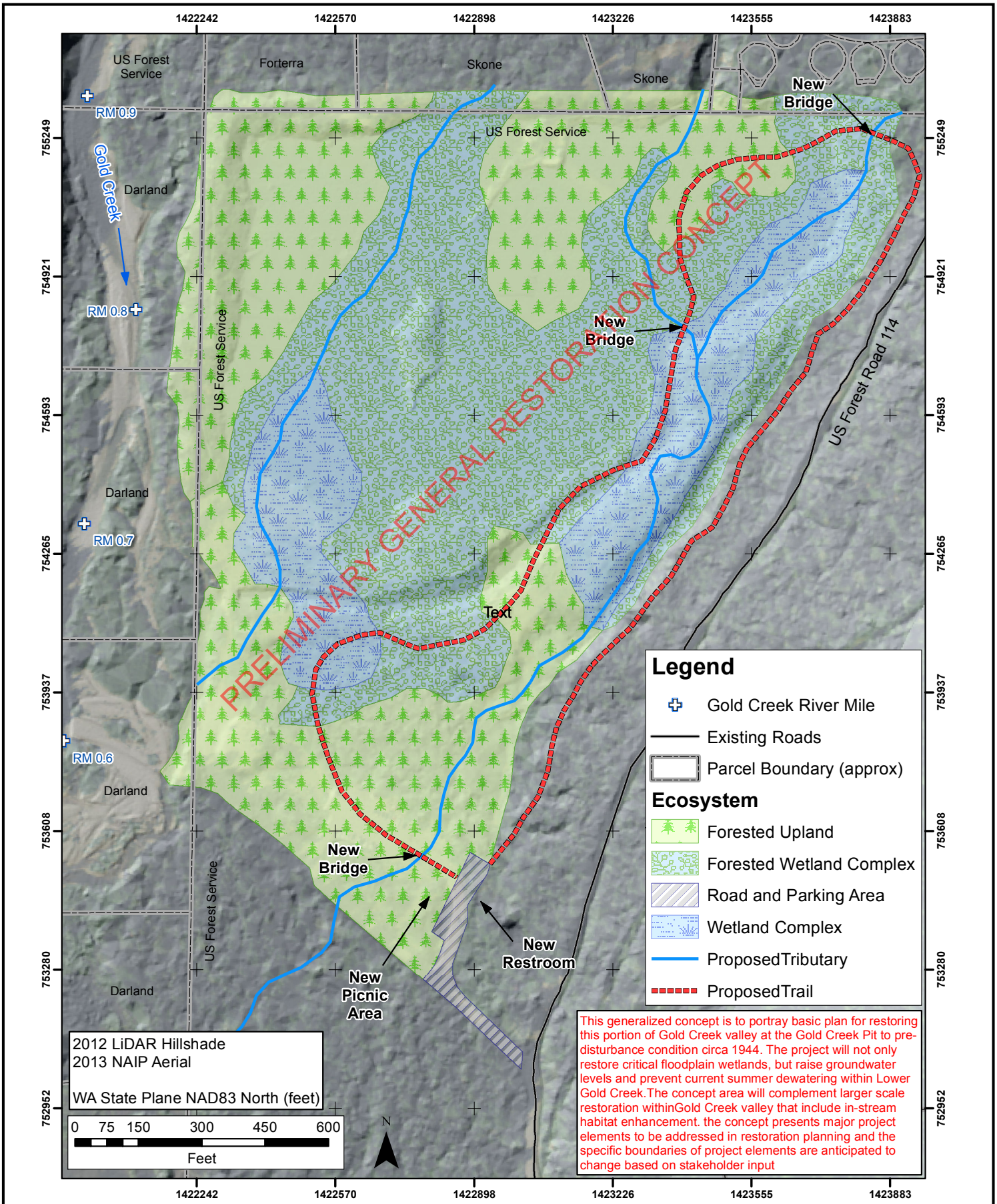

FIGURE 3 – Gold Creek Pond Restoration Concept Design

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Off-channel wetland complex on western floodplain near RM 1.1. Beaver dam creating 2-ft difference in water elevation in foreground

Mardee Lake open water wetland with emergent wetland edge. West of Gold Creek Valley approx. 0.3 miles.

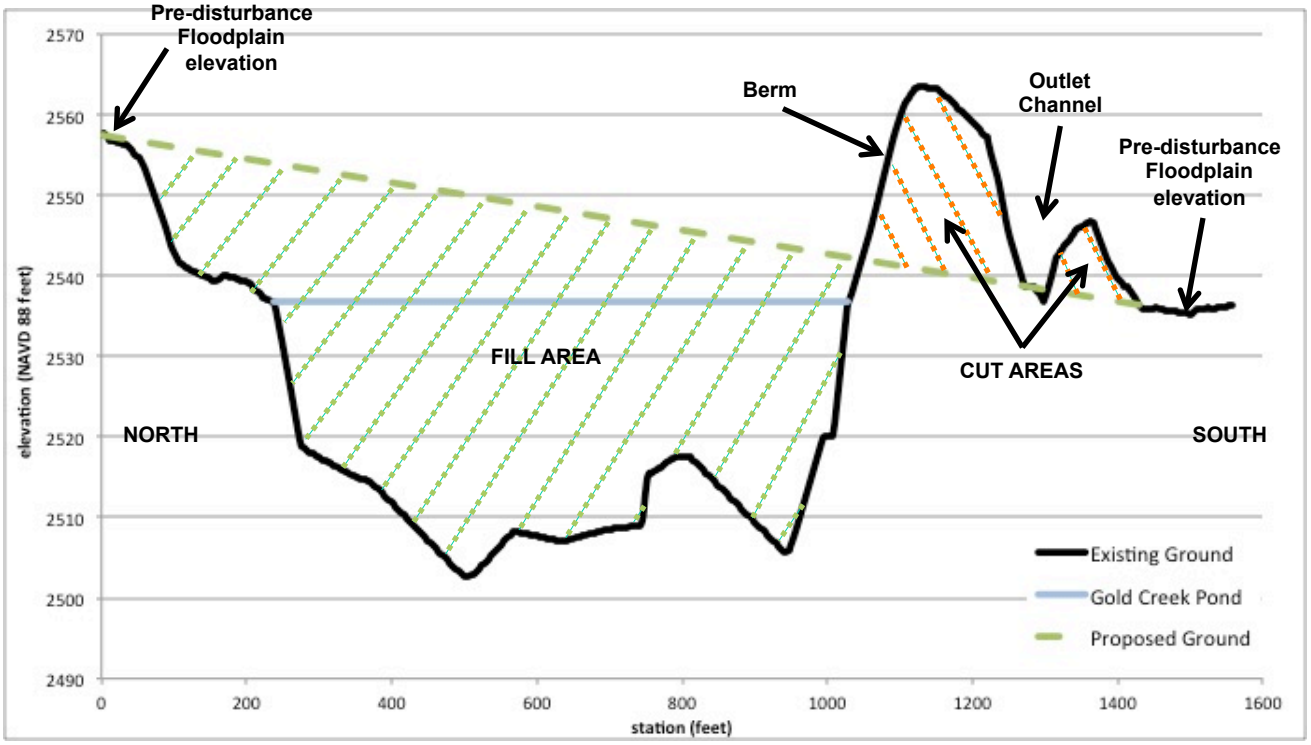

FIGURE 4 – Gold Creek Pond Restoration Profile and Reference Photos

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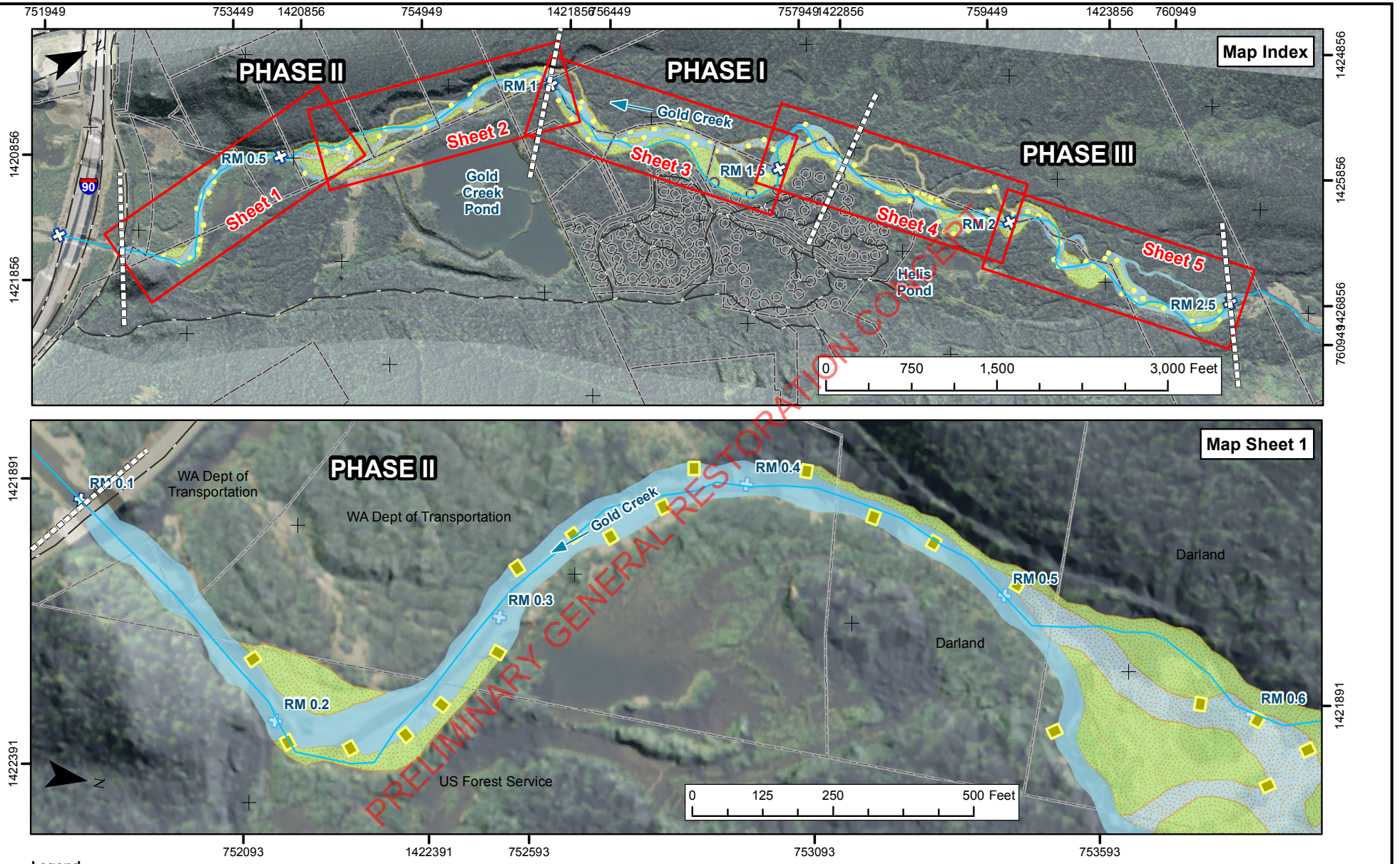

Legend

- River Mile
- Gold Creek (2013)
- Existing Roads
- Parcel Boundary (approx)

Instream Restoration

- Channel
- Channel Excavation
- Roughened Floodplain
- Engineered Wood Structure

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley within Gold Creek to pre-disturbance condition circa 1944. The project will restore critical instream habitat by emulating natural processes that once sustained habitat and stabilized the channel. The concept area will complement larger scale restoration within Gold Creek valley that include restoration of Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

Gold Creek Instream Restoration Concept Design

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FIGURE 5 – Gold Creek Restoration Actions (Map Index & Downstream Section)

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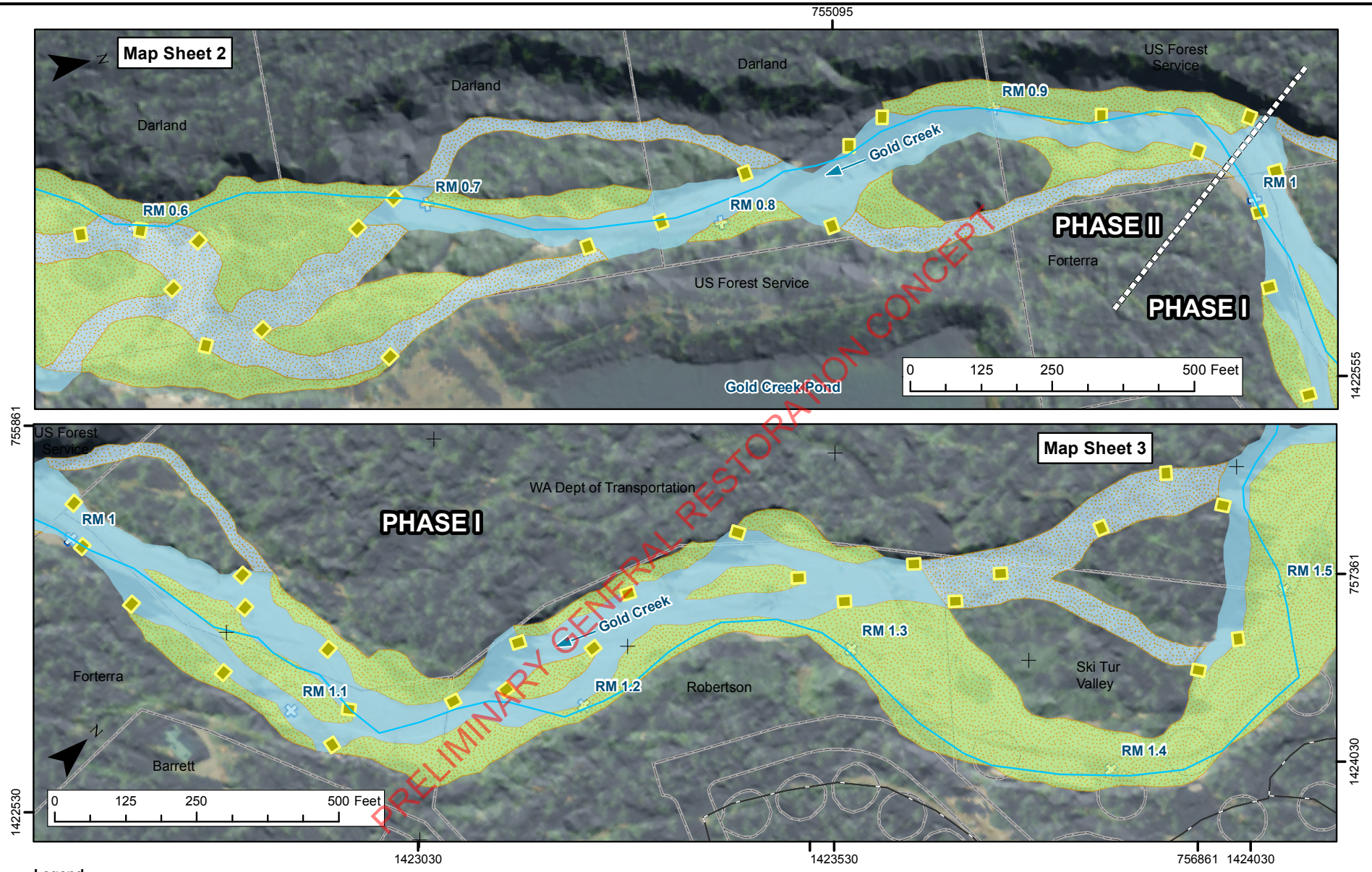

Legend

- River Mile
- Gold Creek (2013)
- Existing Roads
- Parcel Boundary (approx)

Instream Restoration

- Channel
- Channel Excavation
- Roughened Floodplain
- Engineered Wood Structure

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley within Gold Creek to pre-disturbance condition circa 1944. The project will restore critical instream habitat by emulating natural processes that once sustained habitat and stabilized the channel. The concept area will complement larger scale restoration within Gold Creek valley that include restoration of Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

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FIGURE 6 – Gold Creek Restoration Actions (Middle Section)

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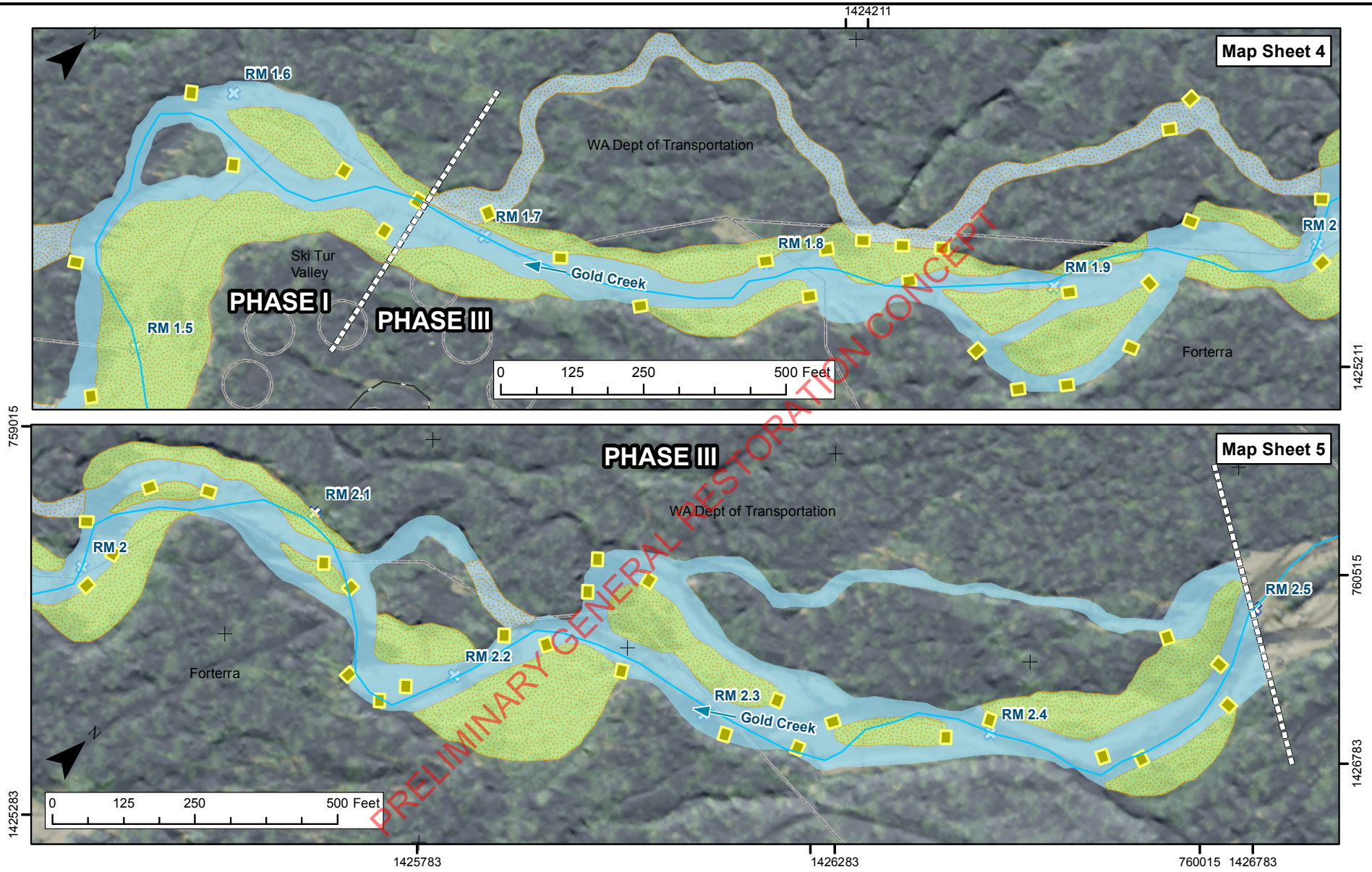

Legend

- River Mile
- Gold Creek (2013)
- Existing Roads
- Parcel Boundary (approx)

Instream Restoration

- Channel
- Channel Excavation
- Roughened Floodplain
- Engineered Wood Structure

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley within Gold Creek to pre-disturbance condition circa 1944. The project will restore critical instream habitat by emulating natural processes that once sustained habitat and stabilized the channel. The concept area will complement larger scale restoration within Gold Creek valley that include restoration of Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

Gold Creek Instream Restoration Concept Design

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FIGURE 7 – Gold Creek Restoration Actions (Upstream Section)

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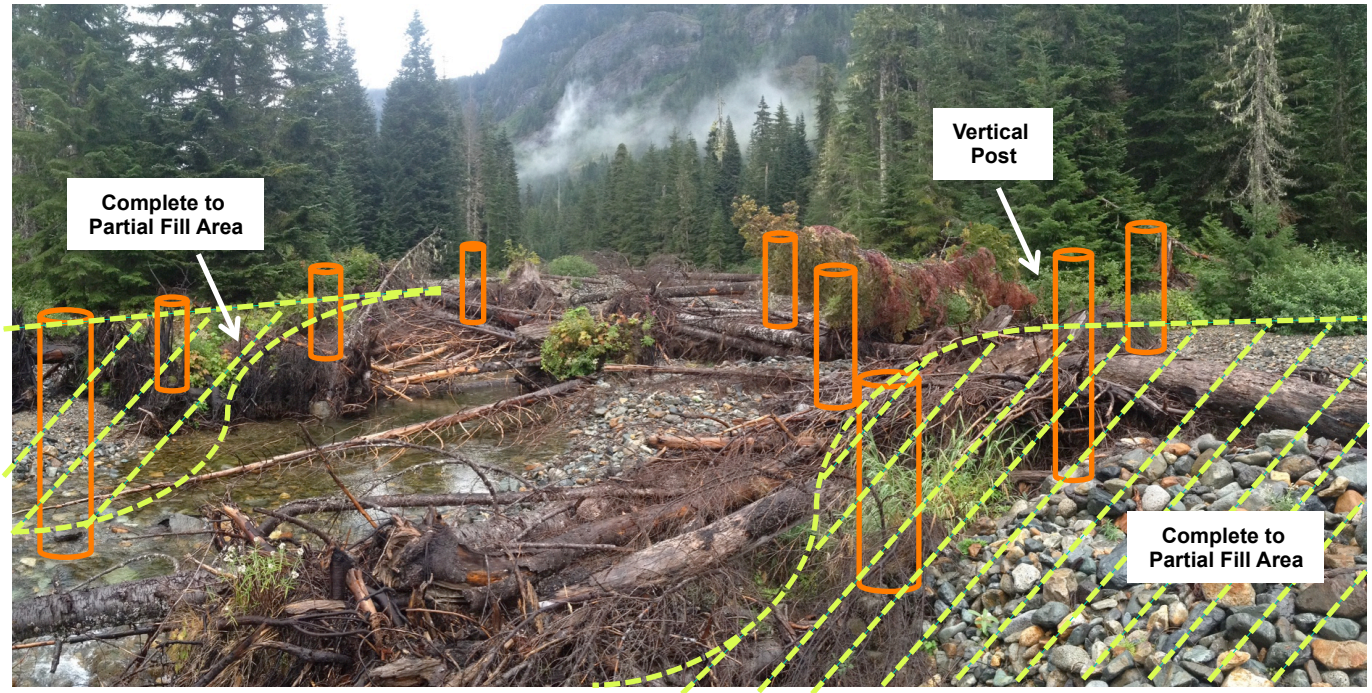
Example of existing natural wood accumulation in Gold Creek near RM 1.25 creating deep pool with cover. Logjam is 40-ft wide X 40-ft long and is creating a stable hardpoint in the channel that has persisted for 6-9 years.



View of current channel near RM 2.25 where channel has eroded adjacent channel banks and recruited multiple large trees. This site serves as a reference condition location for the proposed roughened floodplain structure. Tree placement is a varied, forming a complex arrangement on unvegetated gravel bars where proposed. Vertical and/or inclined posts, combined with partial to complete backfilling, will be used to stabilize the structure.

FIGURE 8 – Gold Creek Restoration Reference Photos

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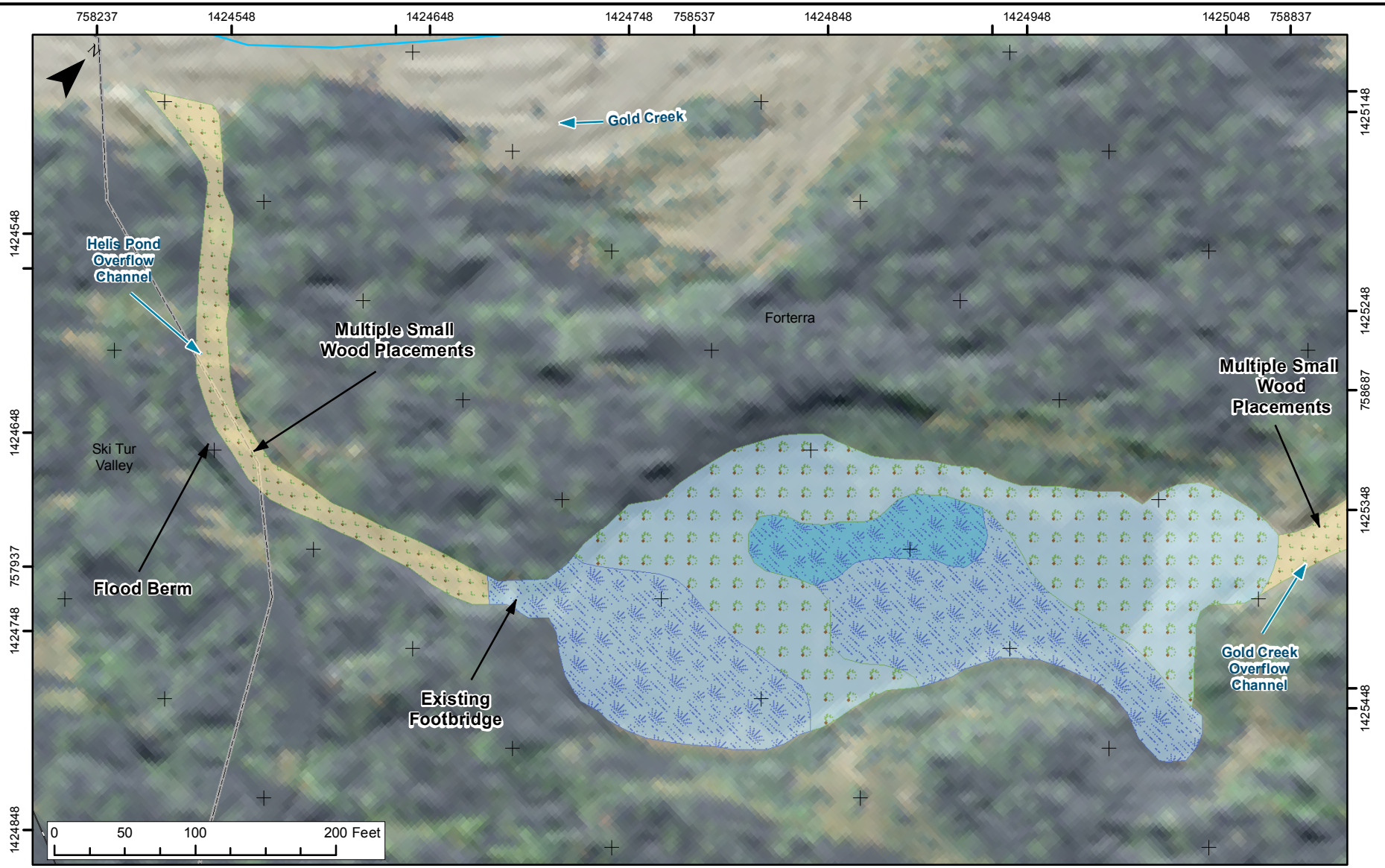

Legend

Helis Pond Restoration

- Emergent Wetland
- Forested Seasonal Wetland Complex
- Seasonal Wetland Complex
- Small Wood Placements
- Gold Creek (2013)
- Parcel Boundary (approx)

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley at Helis Pit to a seasonal wetland complex. The project will not only restore critical floodplain wetlands, but raise groundwater levels and potentially to limit current summer dewatering within Lower Gold Creek. The concept area will complement larger scale restoration within Gold Creek valley that include in-stream habitat enhancement and restoration of Gold Creek Pit (Pond). The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input.

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

Helis Pond Restoration Concept Design

Northeast of Snoqualmie Pass
Kittitas County, Washington

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FIGURE 9 – Helis Pond Restoration Concept Design

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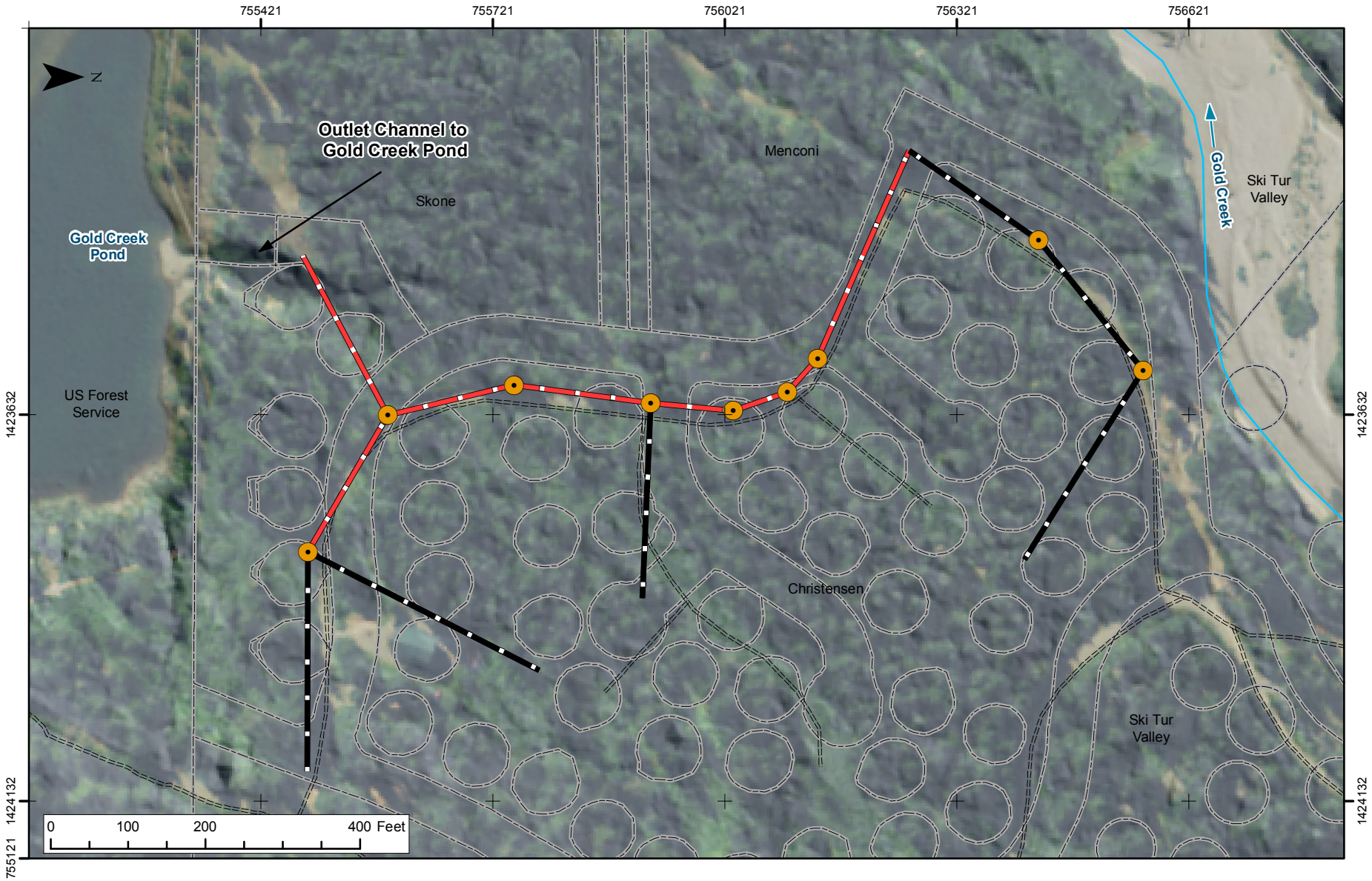

Legend

- Gold Creek (2013)
- Parcel Boundary (approx)
- Existing Roads
- Manhole
- Filled and Sealed Section
- Drainage Line

This generalized concept is to portray basic plan for restoring this portion of Gold Creek valley at the existing drainage line. The project will raise groundwater levels during the summer months when dewatering in Gold Creek occurs. The concept is to fill and seal the lower section of the drainage line to prevent piping of groundwater directly into Gold Creek Pond. The concept presents major project elements to be addressed in restoration planning and the specific boundaries of project elements are anticipated to change based on stakeholder input.

Coordinate System
Washington State Plane NAD 83 South (feet)

Data sources
USDA National Agriculture Imagery Program 2013
2012 LiDAR from Watershed Sciences, Inc.

Drainage Line Restoration Concept Design

Northeast of Snoqualmie Pass
Kittitas County, Washingon

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FIGURE 10 – Drainage Line Restoration Concept Design

Gold Creek Concept Design