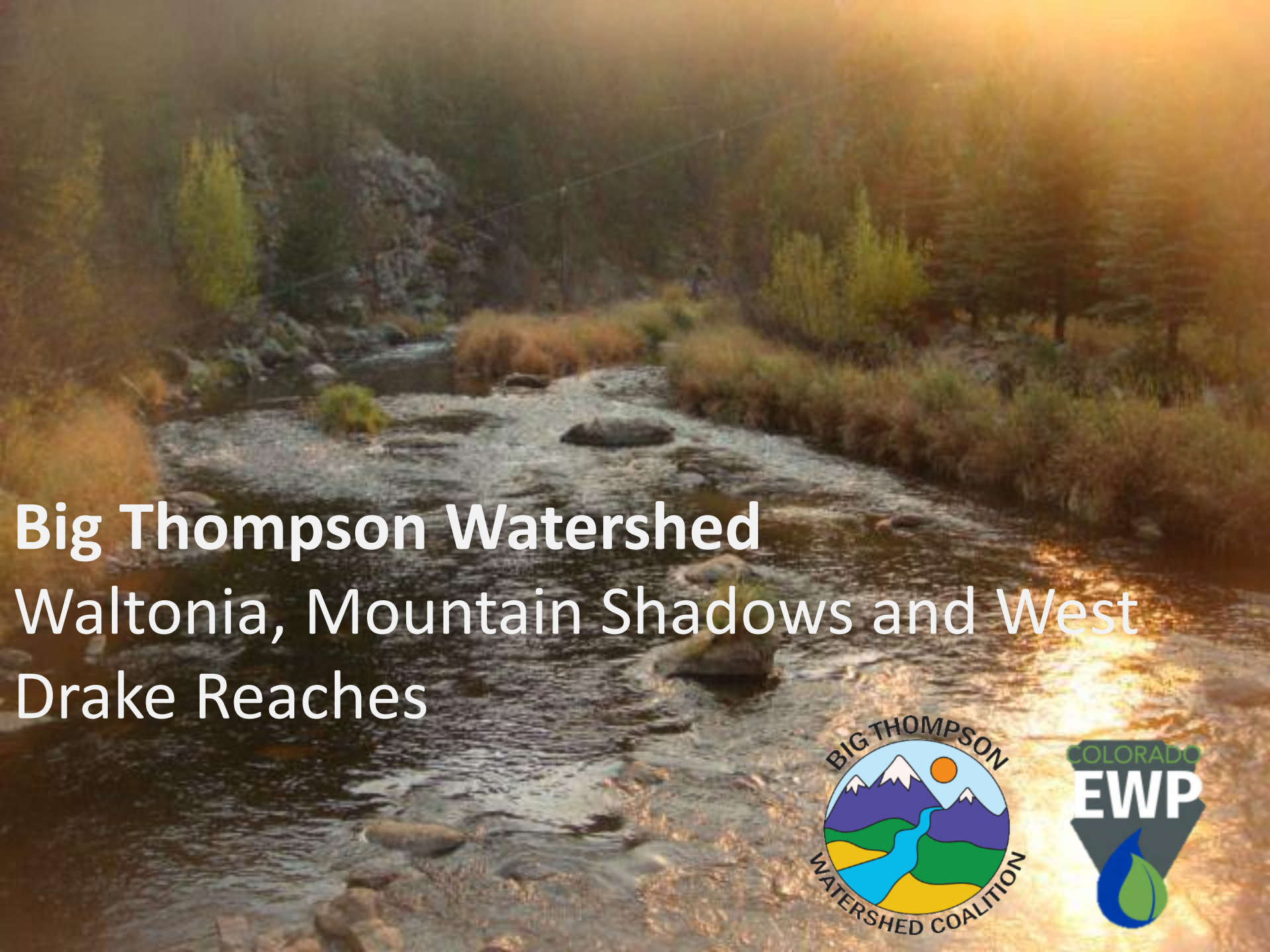


Big Thompson Watershed

Waltonia, Mountain Shadows and West Drake Reaches

BIG THOMPSON WATERSHED COALITION

COLORADO EWP

Agenda

1. Open house / sign in
2. Welcome and introductions
3. Project overview
4. Design overview
5. Open house / plan viewing and comments

Project Overview - Goals

- Reduce risk to life and property
- Improve resilience of river corridor
- Stabilize stream channel
- Restore flood conveyance
- Manage sediment/improve water quality
- Establish vegetative cover
- Improve aquatic and riparian habitat

Project Overview - Work Completed

1. Data Collection
   (site visits/geotech/environmental fieldwork)
2. 1st round of property owner coordination
3. Floodplain coordination with Larimer Co.
4. Ongoing collaboration with CDOT
5. Conceptual layout of proposed improvements
6. Began hydraulic analysis

Project Overview - Remaining Schedule

1. 2nd Landowner Meeting - today
2. 15% site review meeting – Oct 27th
3. Submit 15% plans – Oct/Nov
4. Submit 30% report and plans – Nov/Dec
5. Finalize floodplain coordination – Nov/Dec
6. Complete enviro permitting – early 2017
7. Complete final design – early 2017
8. Construction – 2017

Review of Restoration Treatment Types

In-Stream Structure

Riffle-Pool/Boulder cascades/Etc.
Cross Vanes/J-Hooks
Habitat Enhancement Structures

Floodplain and Bank Protection

Bioengineered Bank Protection
Root Wads / Wood
Floodplain Benches

Vegetation

Woody Plants – trees and shrubs
Herbaceous Vegetation - grasses
Wetlands

Riffles

Boulder Cascades

Cross Vanes & J-Hooks

Source: Rosgen

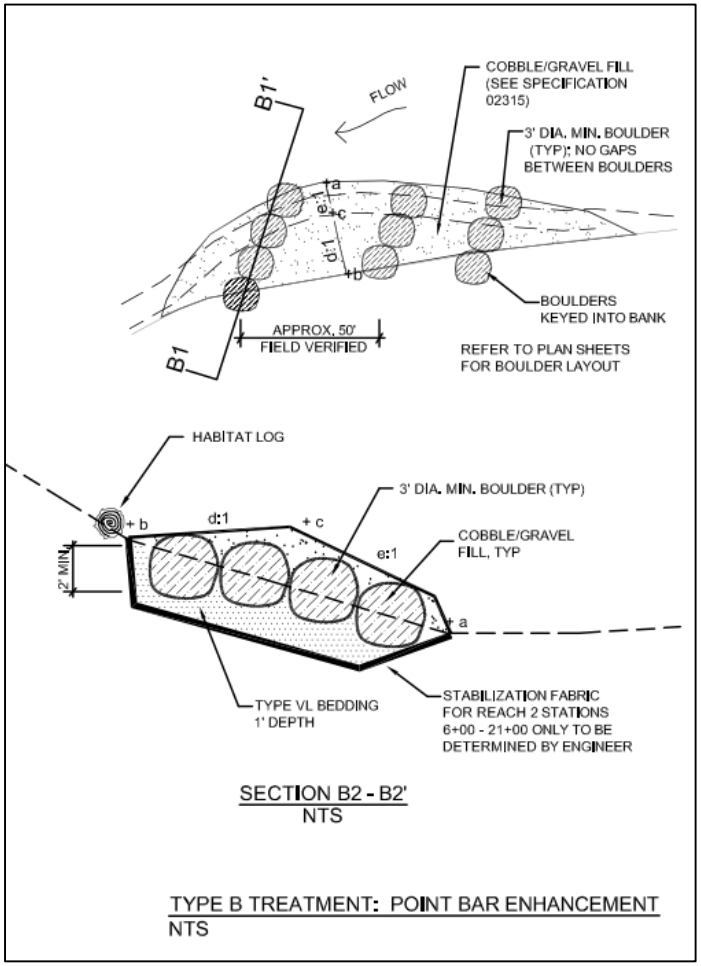
Habitat Structures

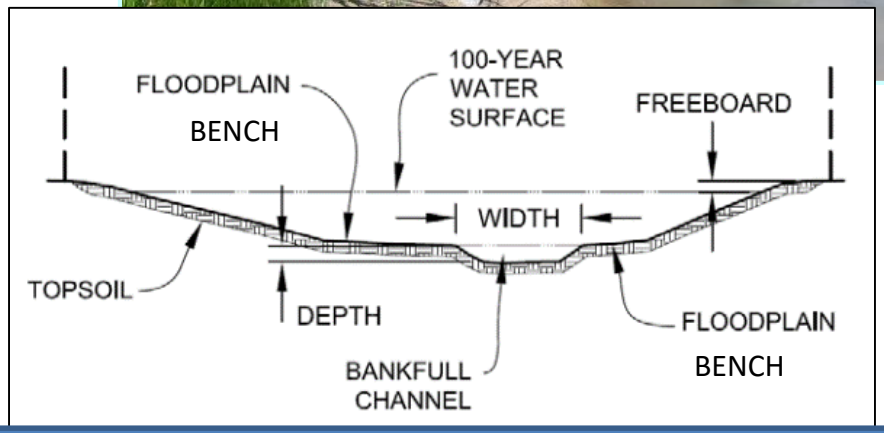
Habitat Structures

Bioengineered Bank Protection

Root Wad Bank Protection

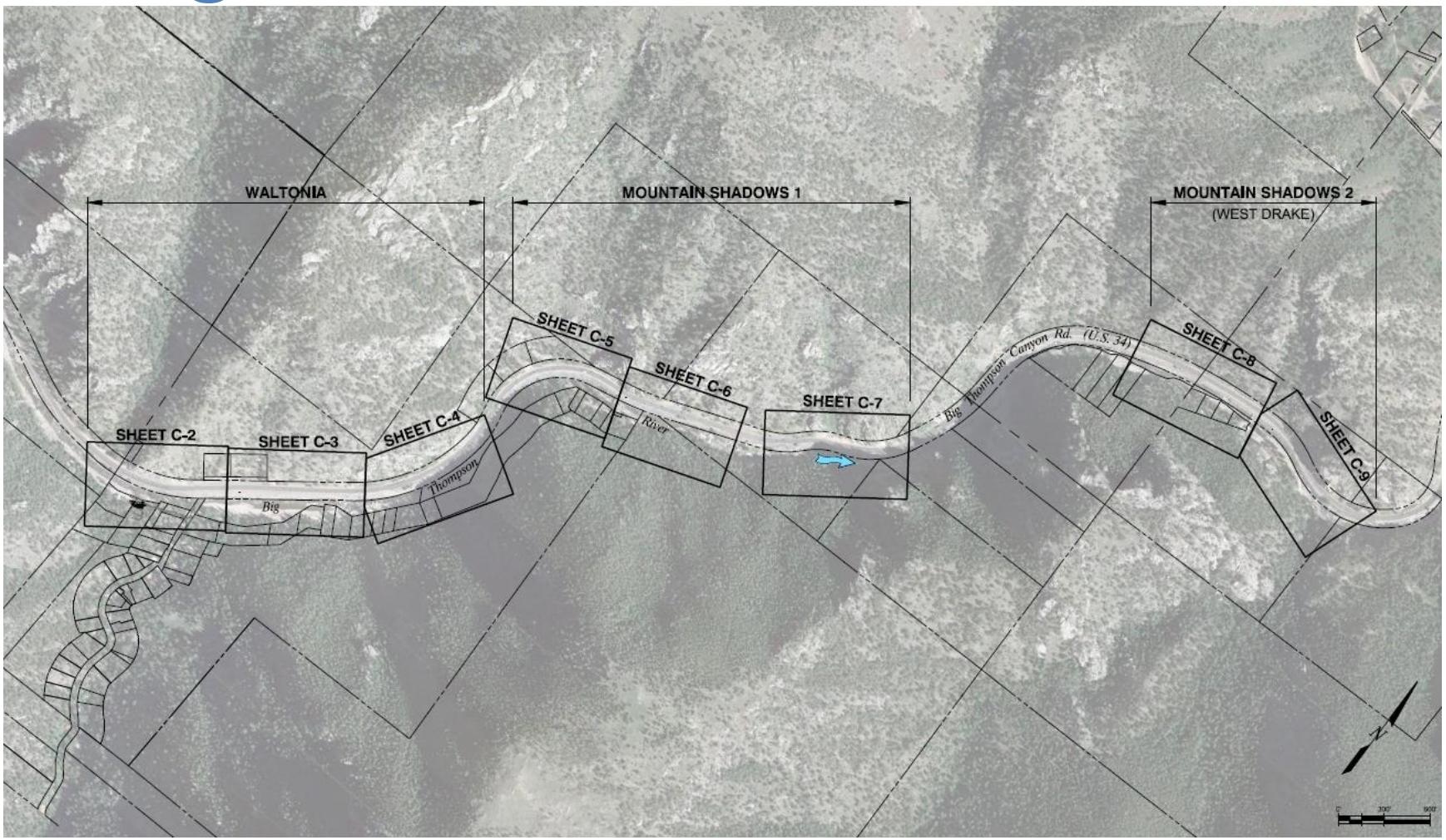
Floodplain Benches



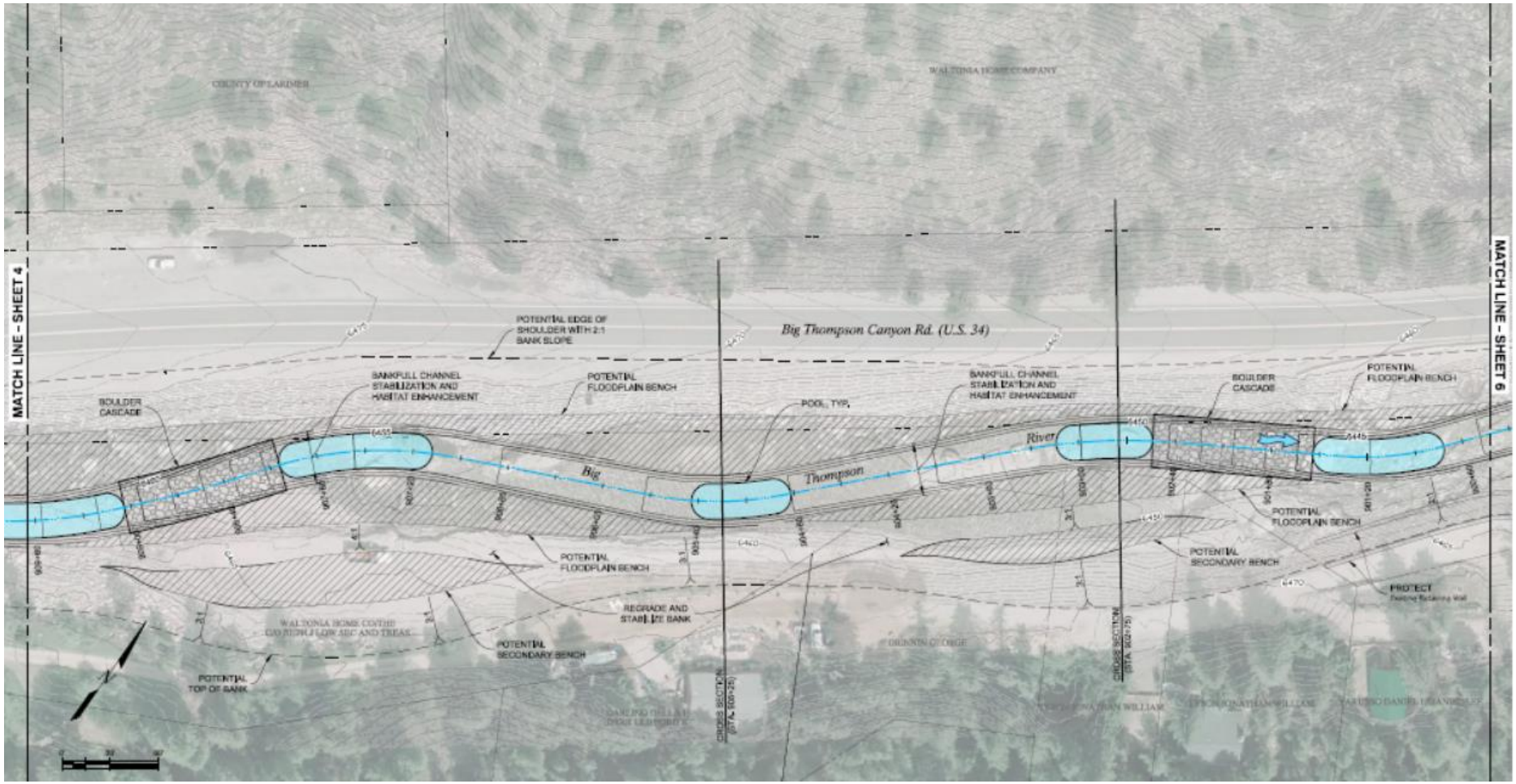


Vegetation

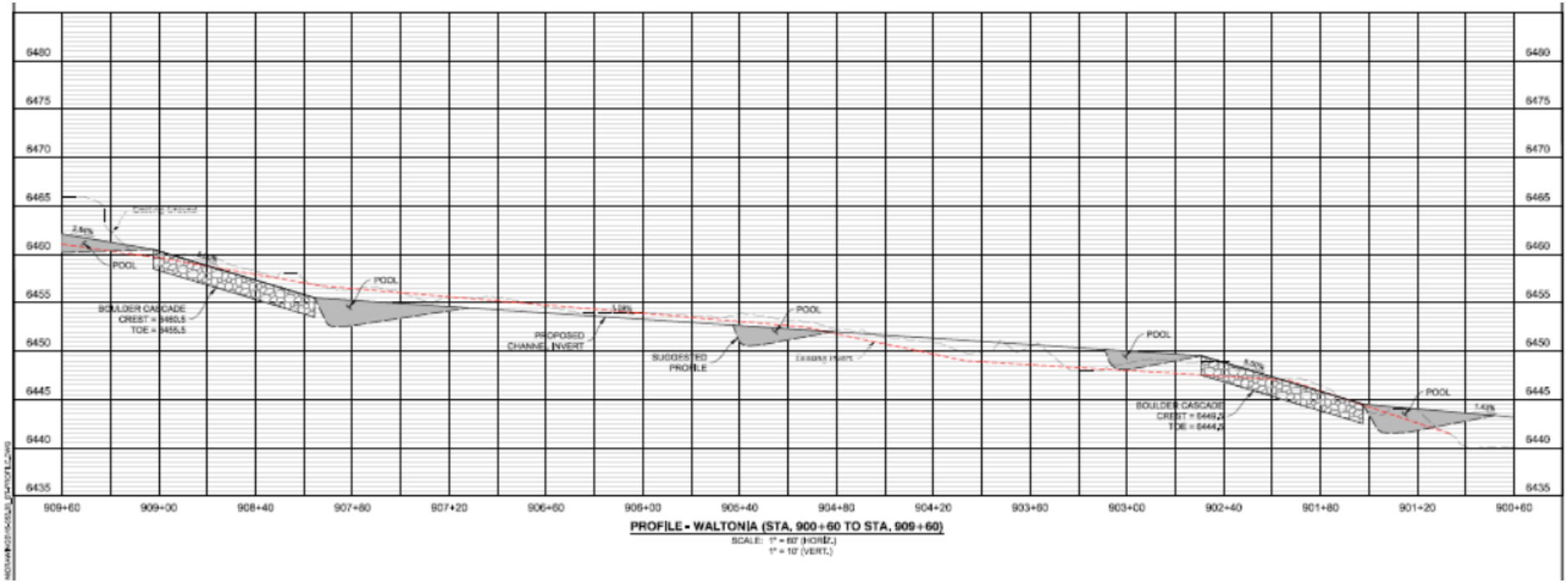
Design Overview – Plan Views



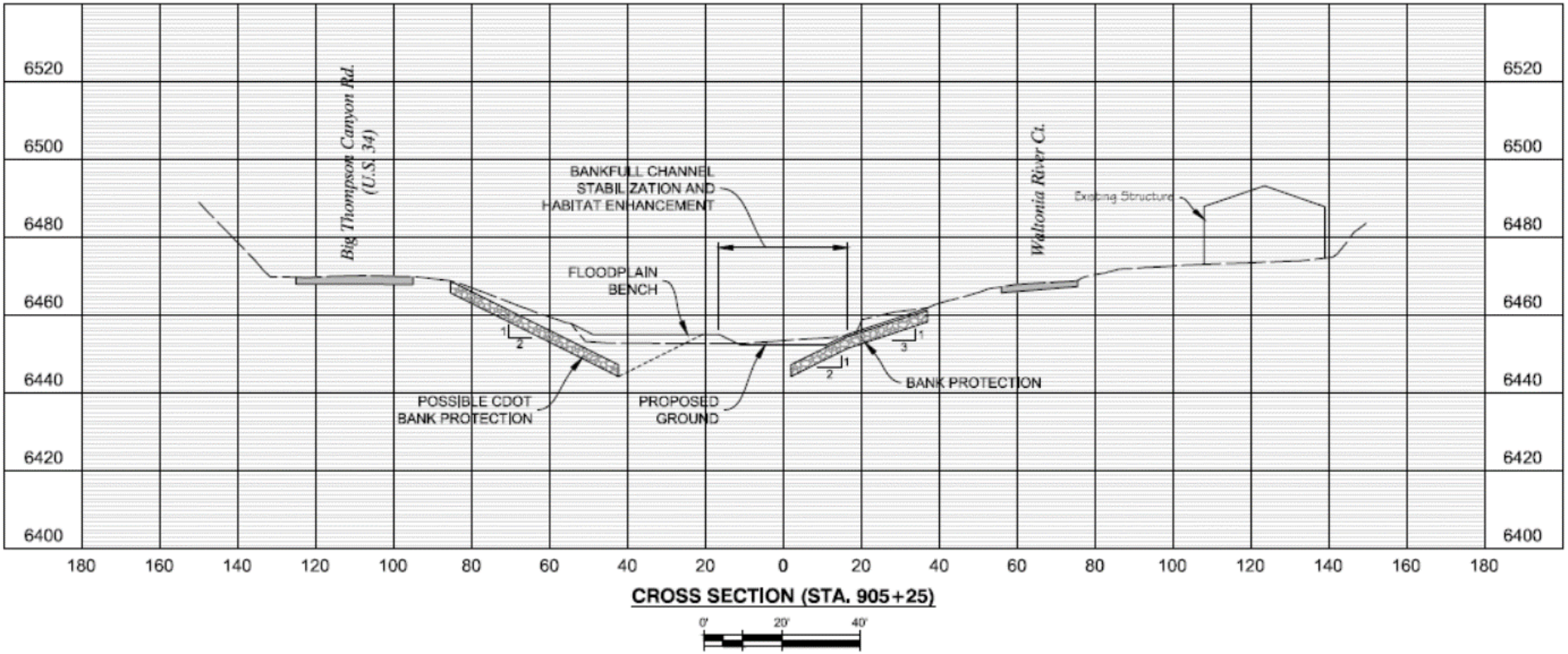
Design Overview – Plan Views



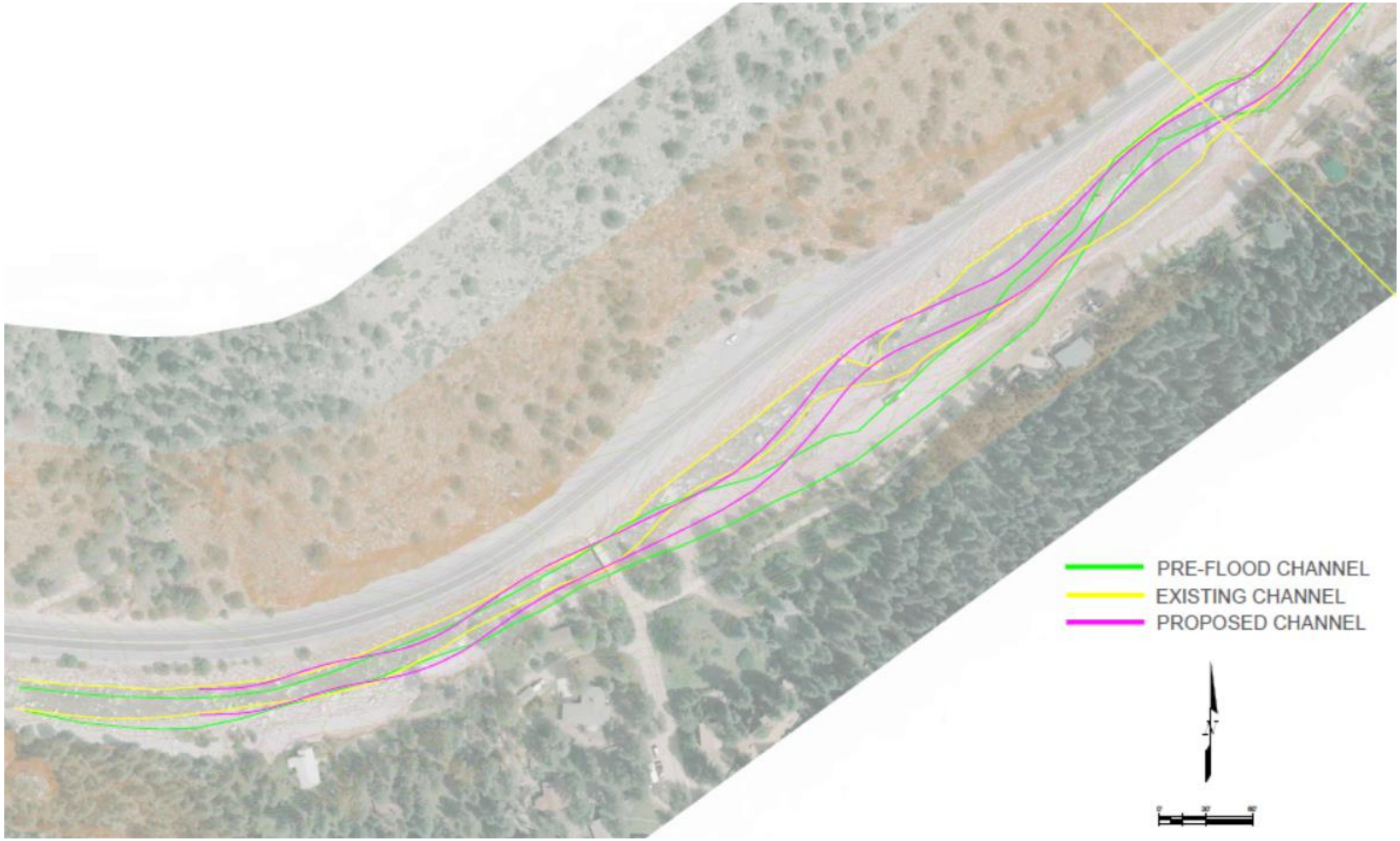
Design Overview – Profiles



Design Overview – Cross Sections



Design Overview – River Changes



Landowner Permission to Enter Form

Big Thompson Watershed Coalition

PERMISSION TO ENTER

Return to:
Big Thompson Watershed Coalition
2525 West 1st St.
Loveland, CO 80537

Location: Big Thompson Watershed
Landowner:
Property Address:

The undersigned landowner or landowner's representative hereby grants permission to the Big Thompson Watershed Coalition (BTWC), its contractors, agents, and all others deemed necessary by BTWC, to enter the property identified above and perform the following activities:

DESCRIPTION OF WORK TO BE DONE

Stream restoration (project), which may include:

- Planning and/or evaluation activities such as survey, assessment of wildlife, botanical, riparian and hydrological conditions, and performance of such other activities as may be reasonably necessary for planning or evaluation of a stream restoration project
- Establishing construction access routes (if needed)
- Earthmoving
- Stream alignment modification, as necessary
- Changes to the contours of the stream and banks
- Placement of root wads, earth fill, logs and/or rocks for bank stabilization or habitat improvement
- Revegetation of disturbed areas.

Operations and maintenance, which may include:

- Annual monitoring and assessment
- Repair and maintenance of improvements as needed

PERMISSIONS

Questions