Subject: SWEEP Meeting #2

Client: CDOT Region 1

Project: I-70 Peak Period Shoulder Lane

Meeting Date: December 5, 2013

Meeting Location: CDOT Golden

Project No: 215164

Notes by: Sandy Beazley and Britton Marchese

ATTENDEES:

	Sandy Beazley, Gina McAfee, Tammy Heffron, Britton Marchese Holly Huyck, David Singer, Francesca Tordonato, Samer Alhaj
	Sarah Fowler
THK:	Kevin Shanks
Atkins:	Allan Brown
CH2M Hill:	Mandy Whorton
PB:	Jason Longsdorf
Matrix Design:	Robert Krehbiehl
Clear Creek County:	Trent Hyatt, Jo Ann Sorenson

DISTRIBUTION: Attendees, SWEEP members, Project File

SUMMARY OF DISCUSSION:

- 1. Introductions
- 2. PPSL Project Overview
 - a. Gina provided an overview of the project.
 - b. Sarah asked what the cross section is—it was described as primarily a signage and striping effort, with minimal widening throughout the corridor. The number of entry points is currently unknown.
- 3. Wetland impacts
 - a. Sandy discussed wetland impacts. Five wetlands were delineated; others were conservatively assumed to be wetlands based upon a windshield survey (because they were inaccessible for safety reasons during flooding).
 - b. Potential impacts are limited to wetlands #1 and #3. Impacts at wetland #1 will likely be avoided entirely.
 - c. Wetland impacts to #3 would result from improvements to Water Wheel Park. This will be mitigated by creating additional wetlands, potentially resulting in more wetland acreage than currently present.
 - d. Once wetland impacts have been determined, this information will be communicated to the SWEEP group electronically.

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- 4. Floodplain impacts
 - a. Robert noted the success of the team in avoiding floodplain impacts. The only adverse impact is adjacent to the retaining wall at the upstream side of SH 103. The crib wall is being scoured and adding sediment to the Creek. The wall will be refaced—expanding the width into the creek. This will include stabilizing the creek edge in front of the wall, leaving large boulders in place. Material will be removed and the bed lowered to result in a net zero effect to floodplains. Coordination with Trent (CCC) has occurred to discuss permitting. Since there are no impacts a CLOMR is not needed but a LOMR will be necessary. Samer clarified that there will be no adverse effect.
 - b. It is not currently known how much the wall will be lengthened to the west; additional analyses will be conducted to ensure that the tailings to the west are avoided. CDPHE directed that tailings be reburied or taken to a depository.
 - c. Review borings taken to determine if they were taken far enough west (Brian Partington with Pinyon has that data). This has been completed, see Action Items below.
 - d. Coordination with Rena (USACE) has occurred, resulting in the stacking of the NWP permits (#3 and #42), one for maintenance and one for recreation.
 - e. Sarah Fowler had questions about the permitting process and will follow up with the Corps.
 - f. Coordination has not begun with the rafting community, but is forthcoming. The team is trying to schedule a meeting with rafting representatives in early January.
- 5. Riparian vegetation impacts
 - a. Riparian impacts are currently calculated to be 0.5 acre. This number is conservative as it is based on a 10-foot buffer, including the west portion of the study area where improvements will be limited to signage only.
 - b. If impacts to riparian vegetation change, it will be communicated to the group.
- 6. Sarah Fowler had questions about the NEPA approval process—Gina noted that there will be Technical Memos developed to support a CATEX and FHWA approval is expected in March.
- 7. CPW fish data
 - a. CPW conducted limited surveys: brown trout are present throughout Clear Creek, but there are no redds upstream or downstream of SH 103. There will be no impacts to spawning habitat.
 - b. A CPW macro invertebrate survey is in process. The project team will incorporate this data into the analysis if it is received in time.
- 8. Proposed permanent BMPs
 - a. BMPs will be developed.
- 9. Water Quality treatment during construction (Robert)
 - a. ~50 acres of existing pavement in EB
 - b. Project will add ~1.5 acres in EB throughout the corridor (a 3% increase)

- c. The goal is to ensure that WQ is not made worse, meaning that we must capture at least 3% of the runoff, but we are able to capture and treat 20% to 25% of runoff with the proposed BMPs.
- d. Eight sediment basins are proposed (treats 15% of the runoff)
- e. Nine inlets are proposed, and typically integrated with the retaining walls (inliets treats 10% of the runoff).
- f. Curb and gutter will be implemented, ~4500 feet, to direct water to water treatment structures.
- g. Recommendations from SCAP document will be implemented, where feasible.
- h. Will water quality improvements be developed at pull outs to catch spills? This conversation has not yet occurred.
- i. Jo Ann asked who owns the port-of-entry parcel at MP 234. Ownership will be confirmed and this parcel will be used for water quality if possible. Date of right-of-way surveys needs to be confirmed.
- j. The table below summarizes water equality treatment in the study area.

Current Impervious Roadway Area	54.1 acres	
EB I-70 PPSL Added Impervious Area	1.5 acres	
Proposed Impervious Area	55.6 acres	
Proposed Treatment Area	14.0 acres	
Proposed Capture—8 Sediment Basins	7.7 acres	
Proposed Capture—9 Inlet Basins	6.3 acres	
Required C&G	4524 linear feet	
Proposed Capture and Treatment Rate	25%	

EB I-70 WQ Treatment

Action Items

- 1. Share the Water Wheel park design with the SWEEP committee upon availability.
- 2. Provide updates should wetland impacts change.
- 3. Provide updates as riparian impacts are refined.
 - a. In process, new calculations likely distributed week of 12/16/14.
- 4. Provide information regarding the construction techniques of the retaining wall upstream of SH 103.
- 5. Arrange a meeting with rafting interests.
 - a. In process, targeting a meeting the week of 1/16/14/

- 6. Determine the length of the retaining wall and proximity to Big 5 tailings and ensure the Yeh borings included areas of new wall construction.
 - a. Per Brian Partington, another boring beyond the one completed adjacent to the existing wall is unnecessary. CDPHE has given the project permission to simply bury any mine wastes that are found beneath the road or behind the walls. Therefore, the most practical method of dealing with it is to notify the contractor, and have him address with the forthcoming Materials Management Plan.
- Include a discussion of right-of-way at the port-of-entry at the next Tech Team prep meeting. Who owns it? Can CDOT obtain an easement? Date of right-of-way surveys needs to be confirmed.
 - a. In process, follow up discussions with the Clear Creek County to occur 12/16/13.

HR

I - 70 EASTBOUND PEAK PERIOD SHOULDER LANE

AGENDA

SWEEP ISSUES TASK FORCE MEETING #2 December 5, 2013 8:30 a.m. to 10:30 a.m. FHWA Trail Ridge and Central Conf. Rooms 12300 West Dakota Avenue, Suite 180, Lakewood

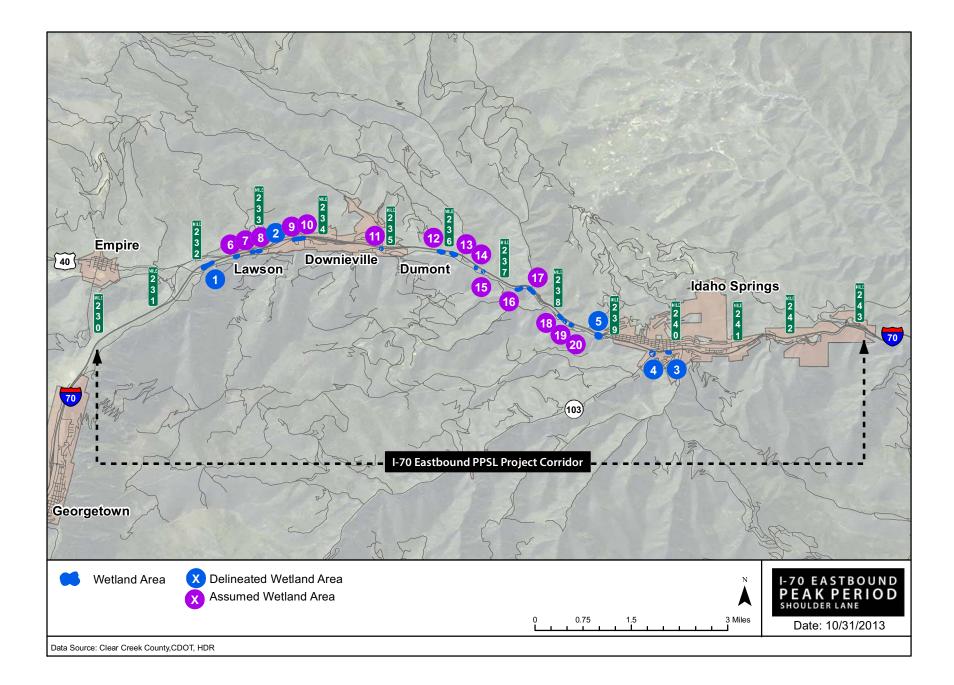
1. Introductions

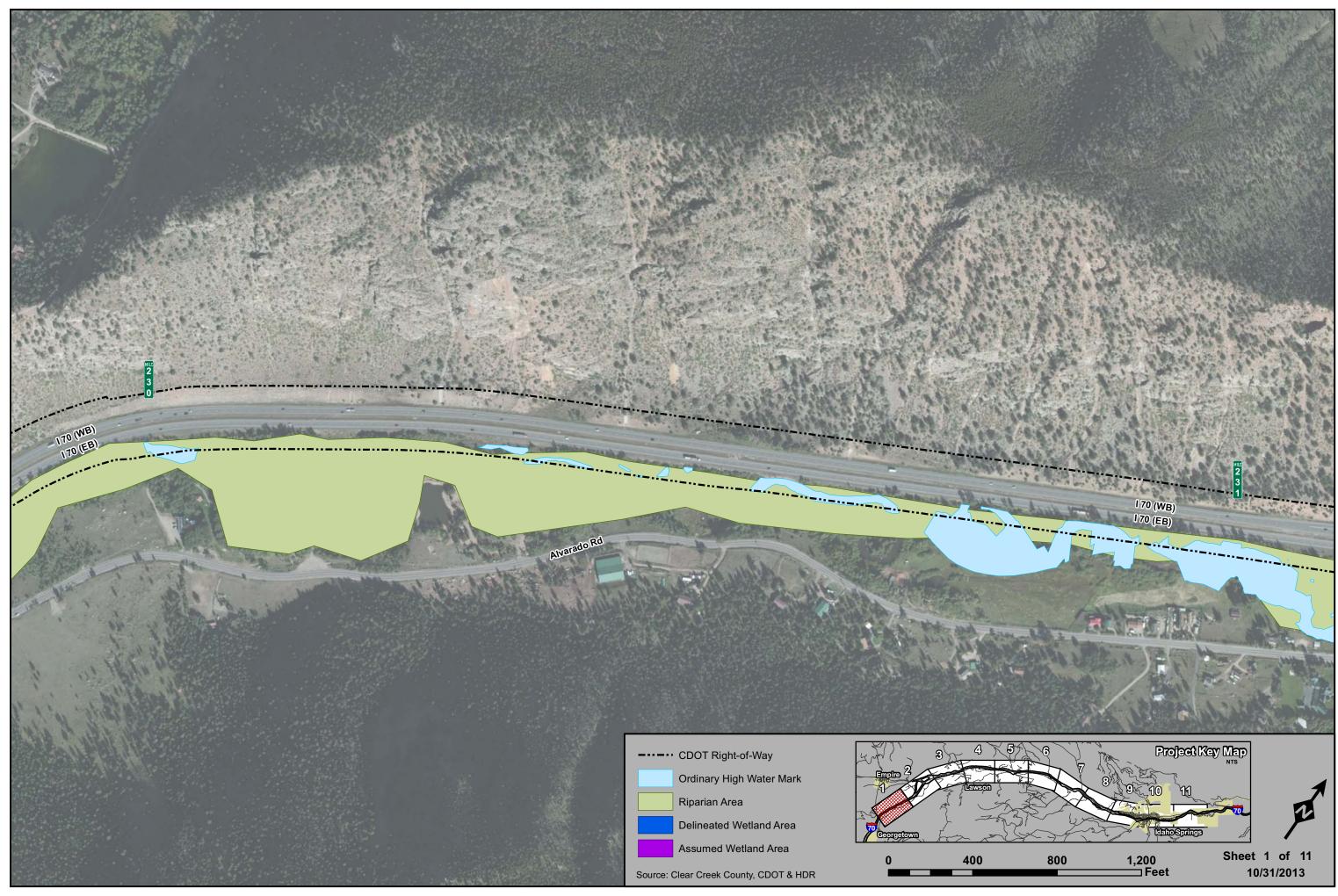
2. PPSL Project Overview

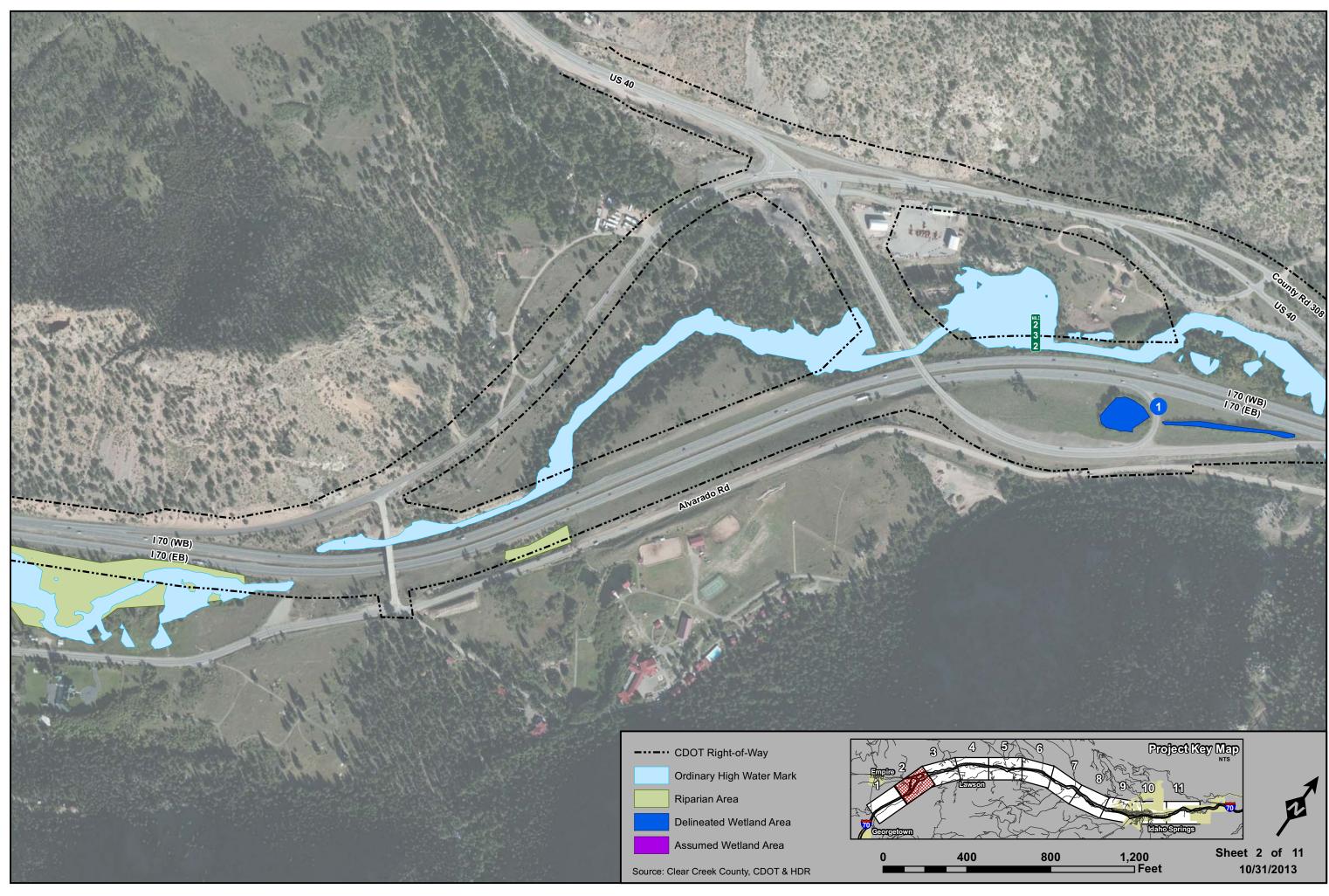
- a. Review of likely wetland impacts
- b. Review of likely floodplain impacts
- c. Review of riparian vegetation impacts
- d. CPW fish data
- e. Review of proposed permanent BMPs
- f. Water quality treatment during construction

3. Westbound Twin Tunnels Project

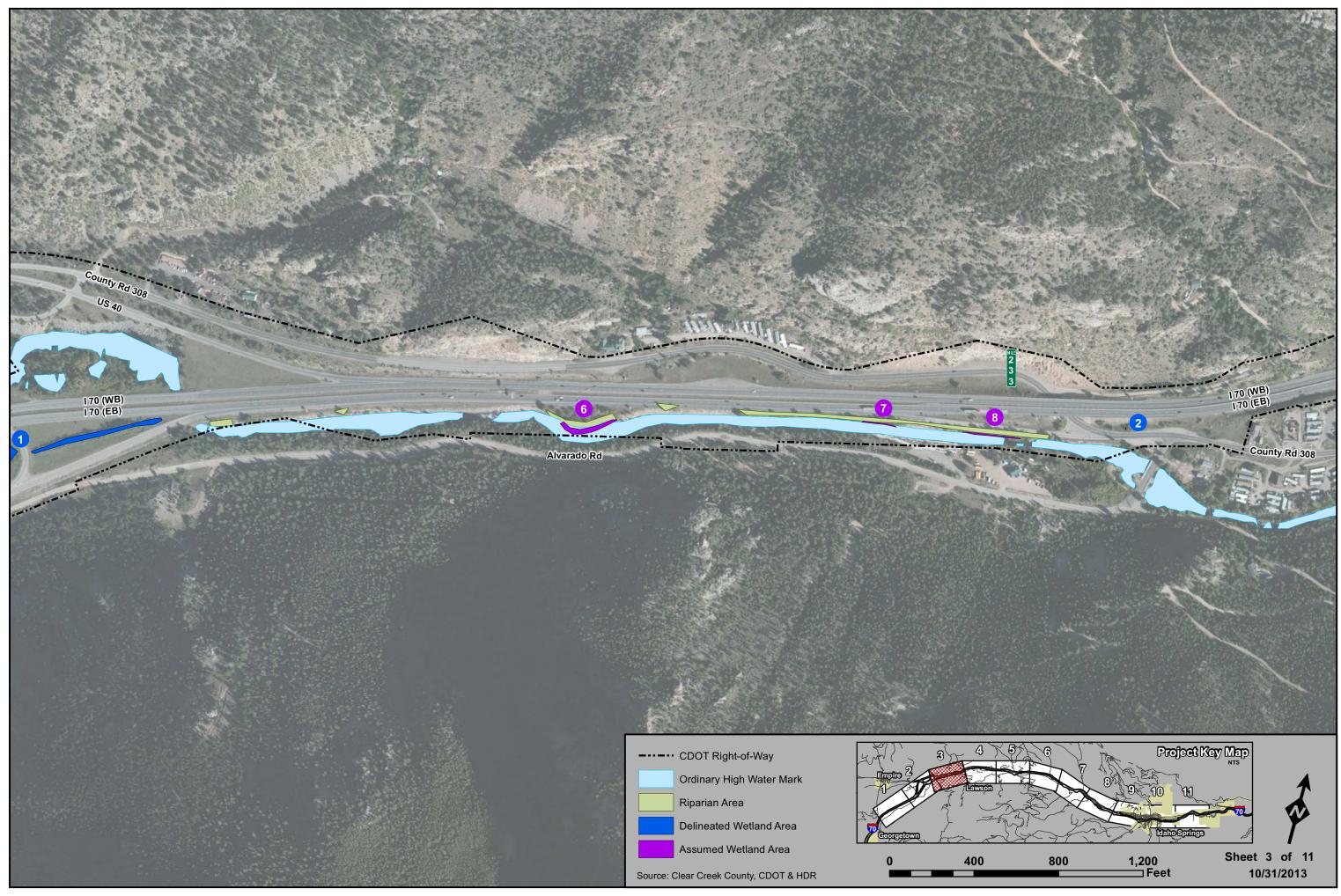
- a. Description of proposed action
- b. Schedule
- c. SCAP improvements
- d. Delay in trailhead improvements and stream restoration
- 4. Next Steps

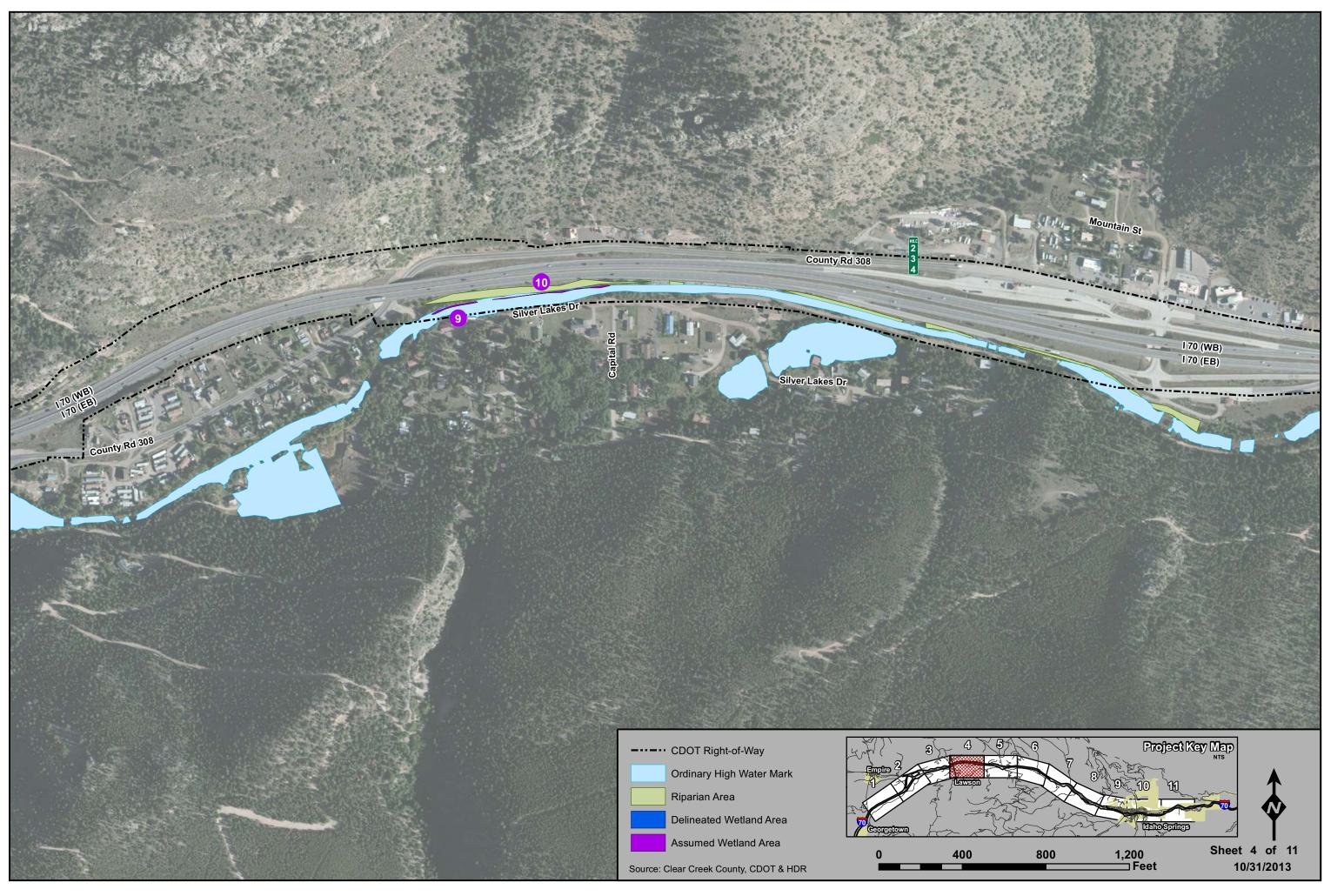




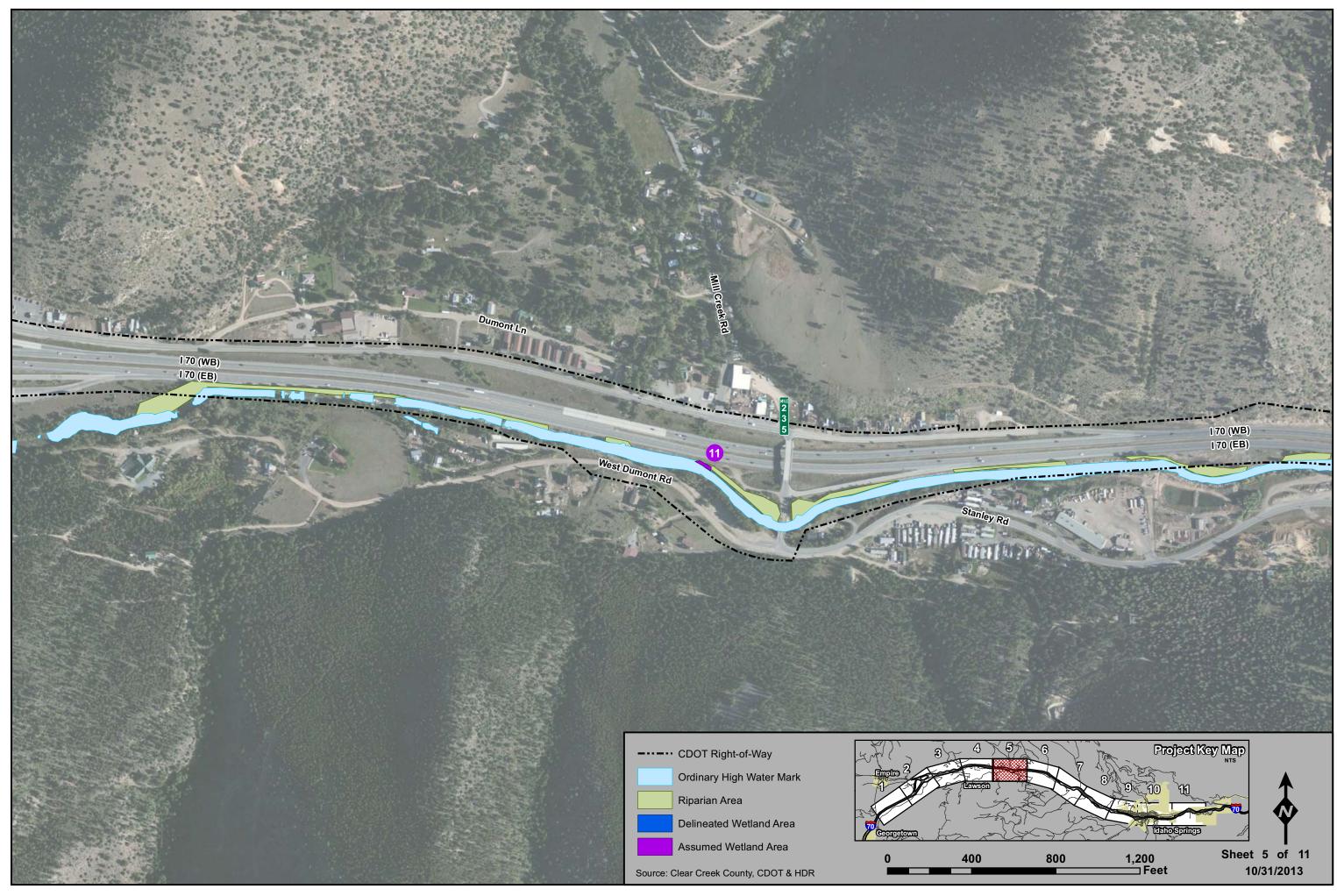


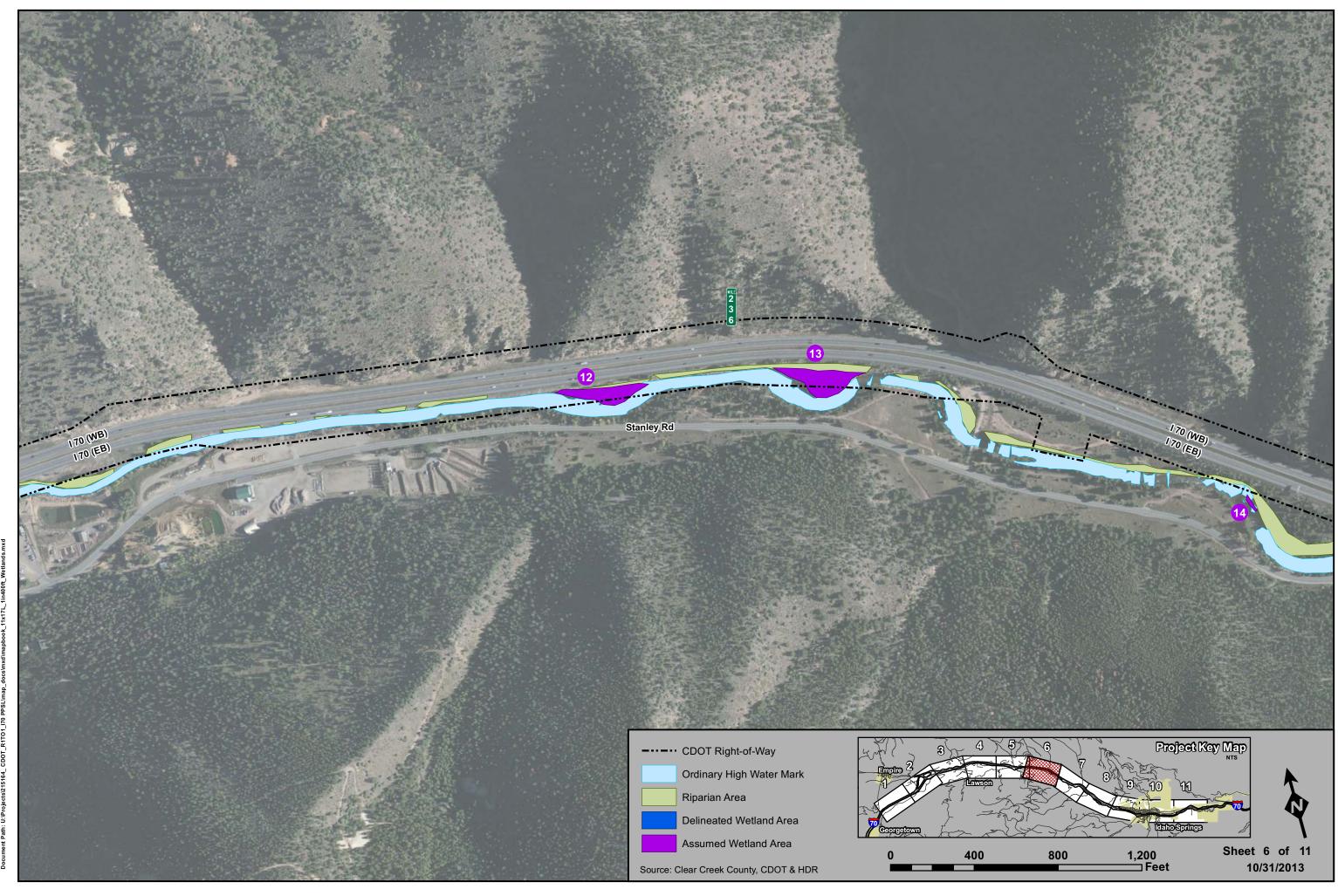
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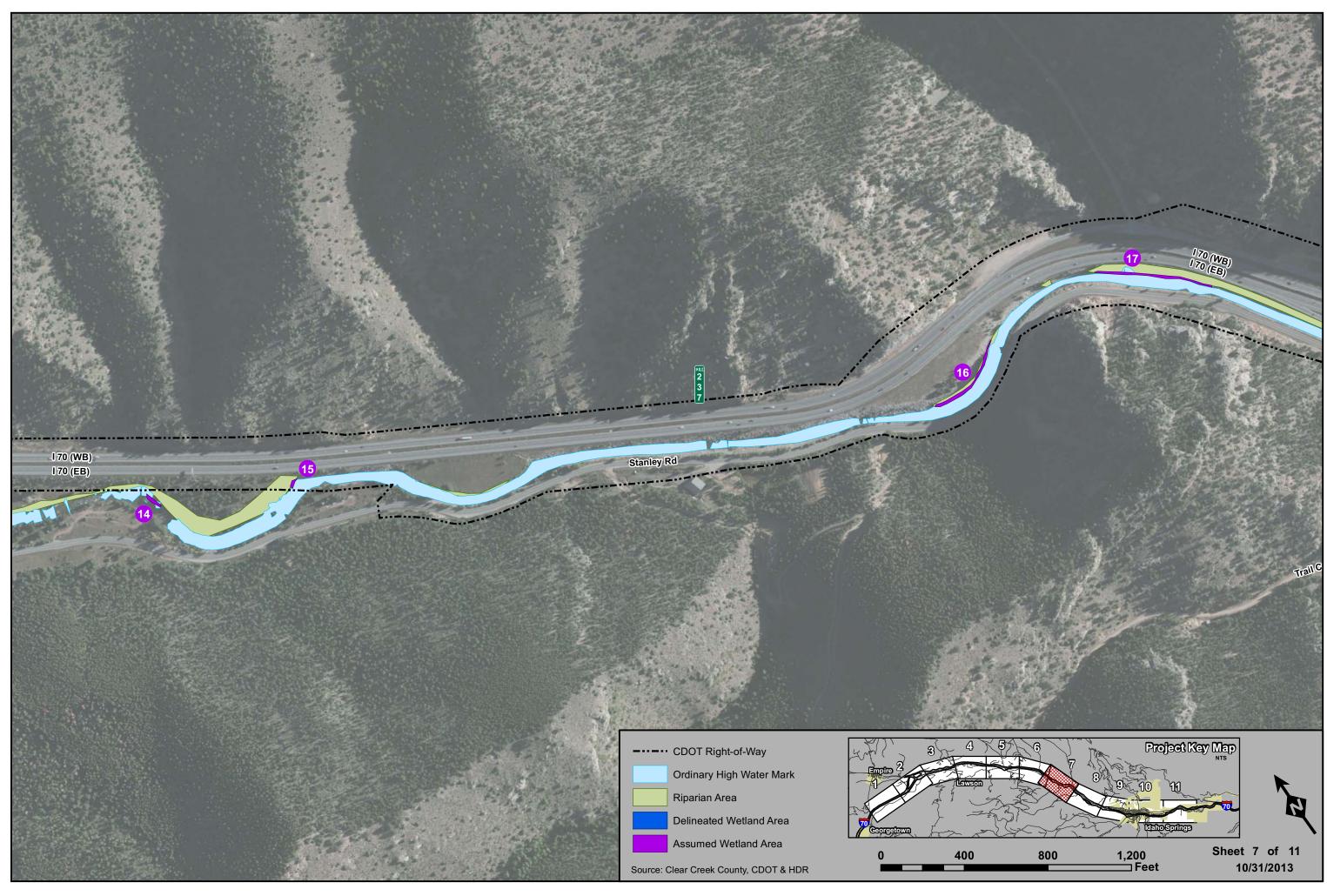


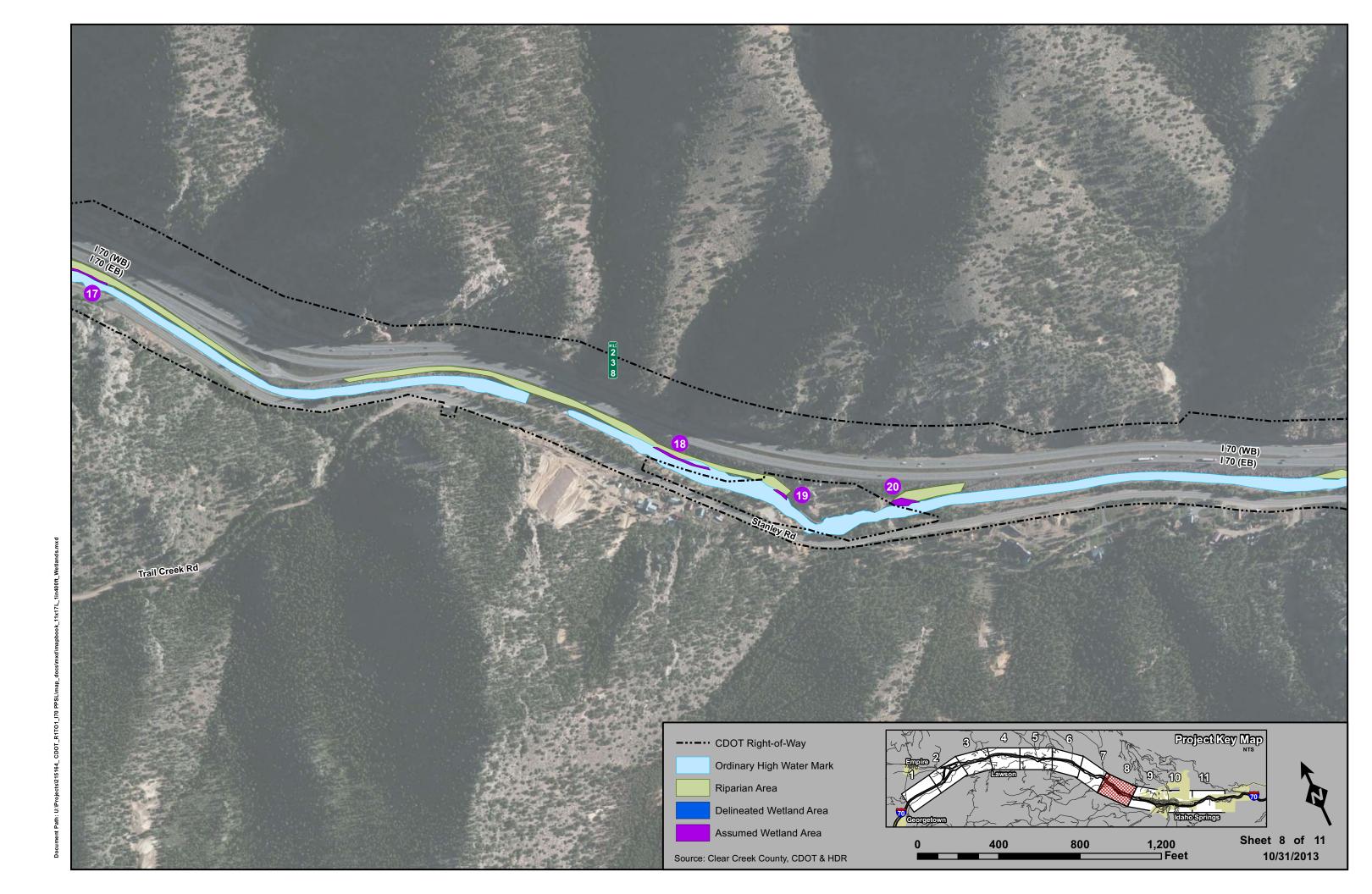


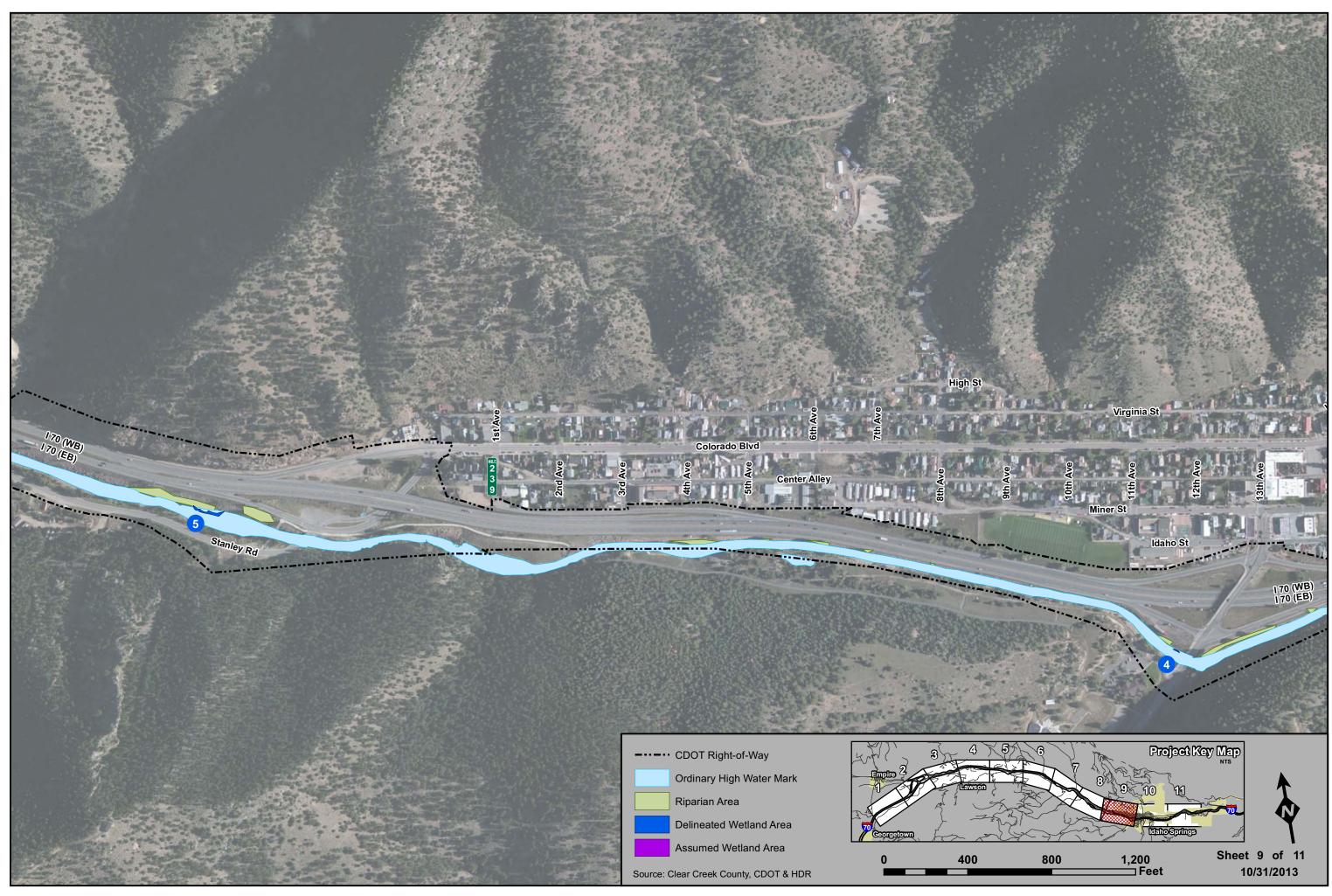
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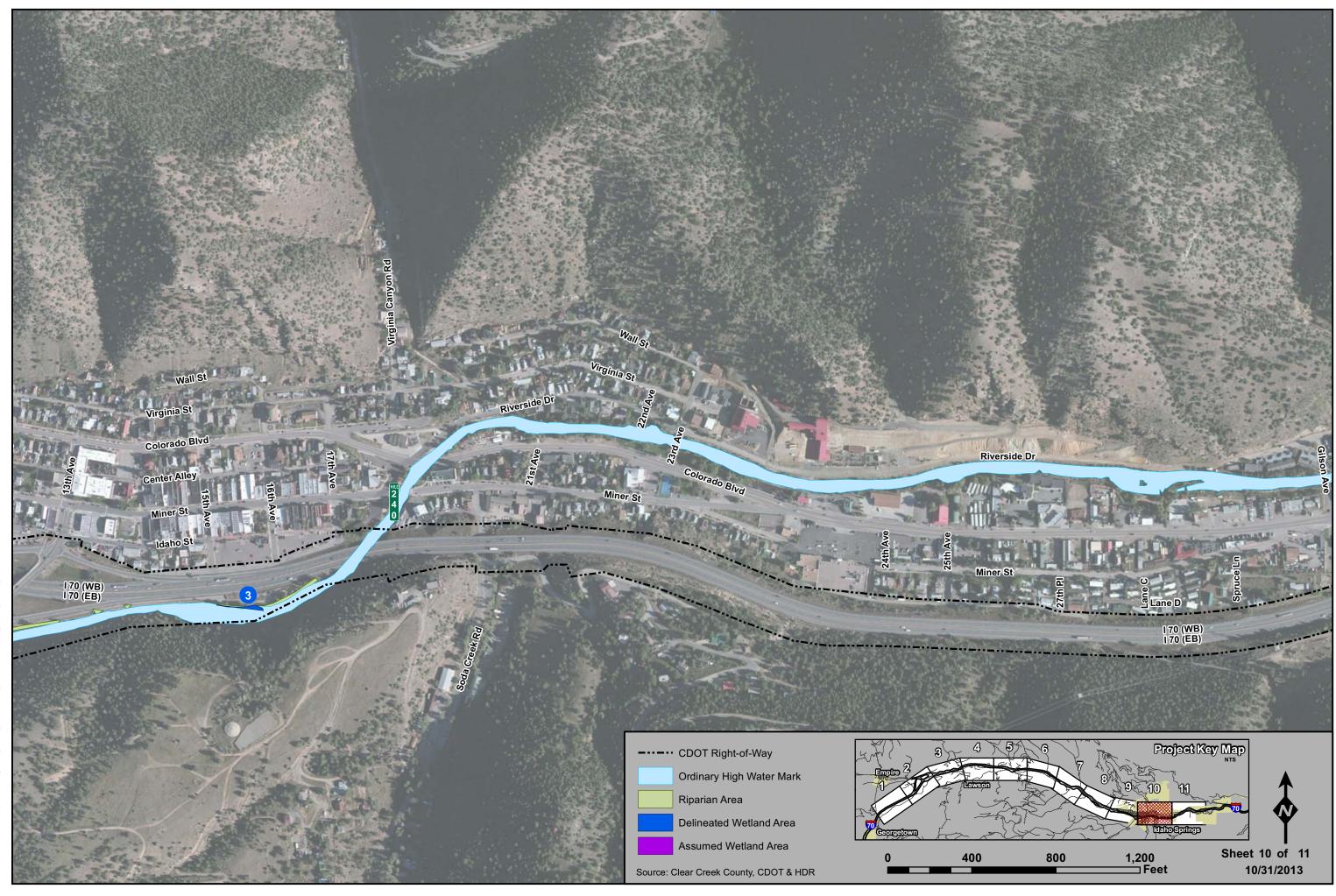


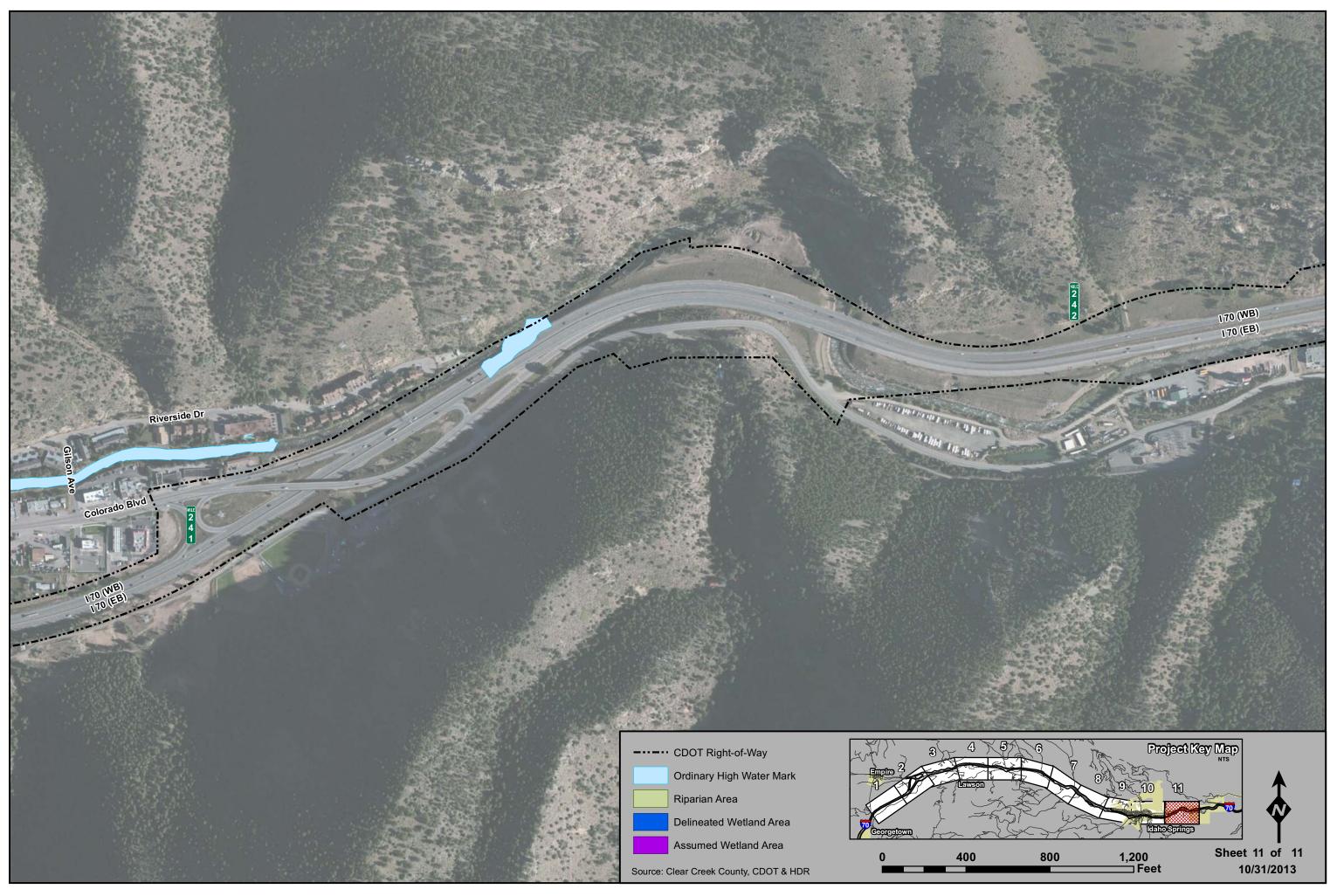












PPSL: Floodplain Impacts, East of SH 103



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