

Twin Tunnels Design/Construction Technical Team Meeting #14

**May 23, 2013
9:00AM – 12:00PM**

**Elks Lodge
Idaho Springs, Colorado**



Agenda

1. Introductions
2. Agenda Review
3. Other Corridor Updates
4. Construction update
 - » Blasting progress
 - » Rafting protection
 - » Input on stream improvements
5. Trailhead and Portal area aesthetics update
 - » 30% design grading plan
 - » Trailhead update
 - » In-stream enhancements
5. Update on Status of CSS document and survey
6. Next Steps



Step 1

Define Desired Outcomes and Actions

Step 2

Endorse the Process

Step 3

Establish Criteria

Step 4

Develop Alternatives and Options

Step 5

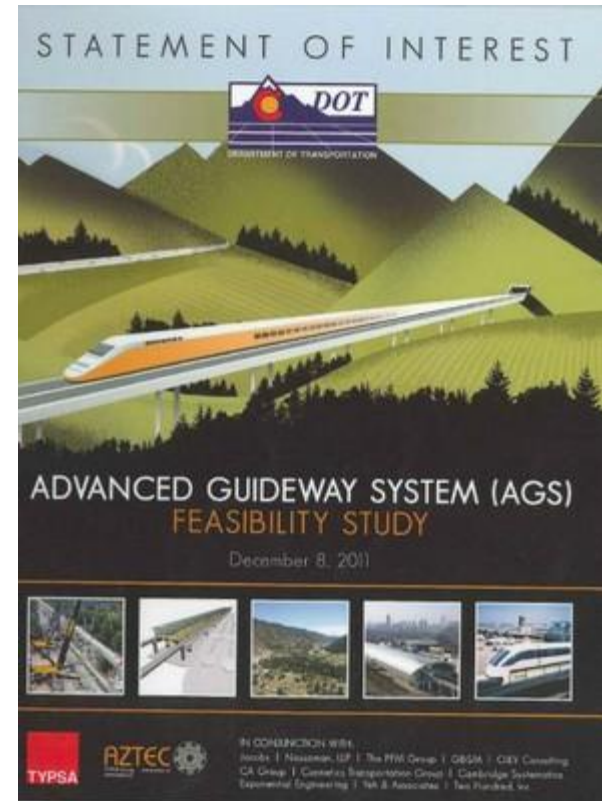
Evaluate, Select, and Refine Alternatives and Options

Step 6

Finalize Documentation and Evaluation Process

Other Corridor Updates

- AGS Study
- Peak Period Shoulder Lanes
- Traffic and Revenue Study
- Smart Work Zone
- Georgetown rockfall
- 106 PA meeting recap



Core Values

- **Safety**
- **Mobility**
- **Gateway**
- **Wildlife**
- **The Creek**
- **Destination**
- **History**
- **Constructability**
- **Inclusivity**
- **Schedule**
- **Schedule**

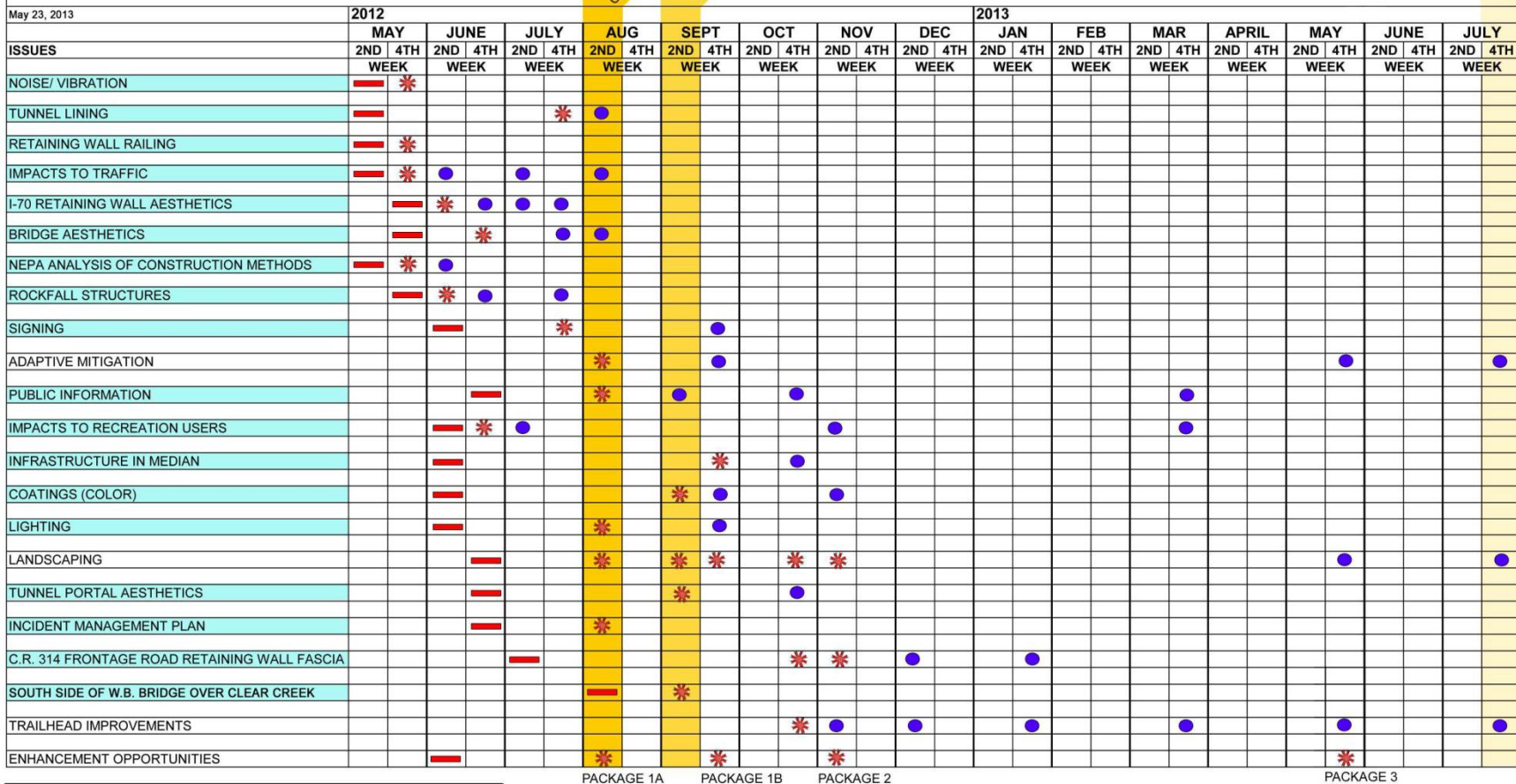


Technical Team Discussions Issues Timeline



TWIN TUNNELS WIDENING

ISSUES FOR TECHNICAL TEAM PRELIMINARY SCHEDULE



LEGEND:

- Shaded Items are Complete
- Discuss Criteria
- * Presentation of Concepts
- Follow-up (As Needed)

NOTE: FINAL DESIGN AND CONSTRUCTION WILL CONTINUE THROUGH MARCH 2014. AFTER FEBRUARY 2013, TECHNICAL TEAM MEETINGS WILL OCCUR ON AN AS NEEDED BASIS, LESS THAN ONCE A MONTH

AESTHETICS REVIEW
East Portal, West Portal, Game Check, Landscape

AESTHETICS REVIEW
Creek Walls, Railing, Landscape

AESTHETICS REVIEW
Bridge Area, Landscape

Twin Tunnels Schedule

Package 1A and 1B

- Under Construction

Package 2 (Tunnel construction)

- Under Construction
- Detour began April 1, 2013
- Blasting began mid-April

Tentative Timelines for Package 3

Package 3

- Concept design began January 2013
- FIR Meeting: May 29, 2013
- FOR Meeting: August 14, 2013
- NTP: October 1, 2013



Construction Update

- No work this Saturday, Sunday and Monday
- Portal protection canopies
- Work continues on eastbound I-70 bridge over Clear Creek
- Retaining walls throughout project corridor
- Overhead sign bridges installed in June
- Chain station finished this summer



Construction Update



Construction Update



Construction Update



Construction Update



Construction Update



Construction Update



Construction Update



Construction Update



Construction Update - Blasting



Construction Update - Blasting



Construction Update - Blasting



Construction Update - Blasting



Construction Update - Blasting



PROJECT LIMITS

POTENTIAL INTERPRETIVE SIGNS

EXISTING PEDESTRIAN BRIDGE

EXISTING ABOVE GROUND UTILITY LINE TO BE RELOCATED UNDERGROUND SO THE BANKS CAN BE LOWERED

EXISTING COTTONWOOD TREES TO REMAIN

RAFT LAUNCH

SOIL COVERED BOULDER PROTECTION

POTENTIAL INTERPRETIVE SIGNS

RESTROOMS/CONCESSION AREA (BENCHES/PICNIC AREA)

TRAILHEAD PARKING - 27 CARS - 6 BUS/VANS

FUTURE RETAIL OPPORTUNITY

CLEAR CREEK GREENWAY TRAIL

THALWEG

RIPIARIAN BENCH

CONSTRUCTED POINT BAR

PAINTED CROSSWALK

BOULDER EDGE

BOULDER EDGE

CONSTRUCTED POINT BAR

RIPIARIAN BENCH

RIFFLE BOULDERS

PROPOSED DECIDUOUS TREES

UPLAND GRAZING AREA

LAY BACK RIVER BANK

EVERGREEN TREES

EVERGREEN TREES

PROPOSED DECIDUOUS TREES

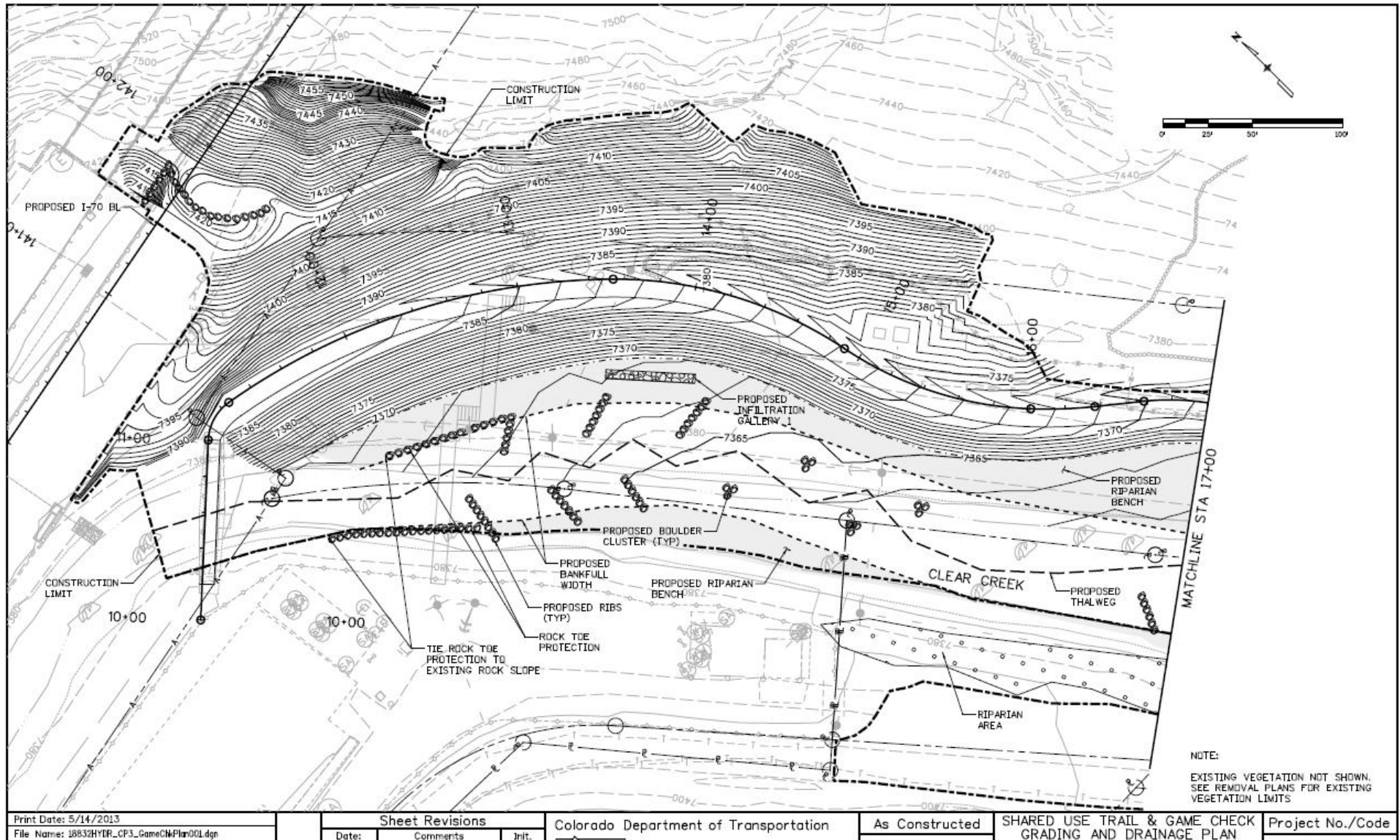
TREE STRUCTURES

PROJECT LIMIT

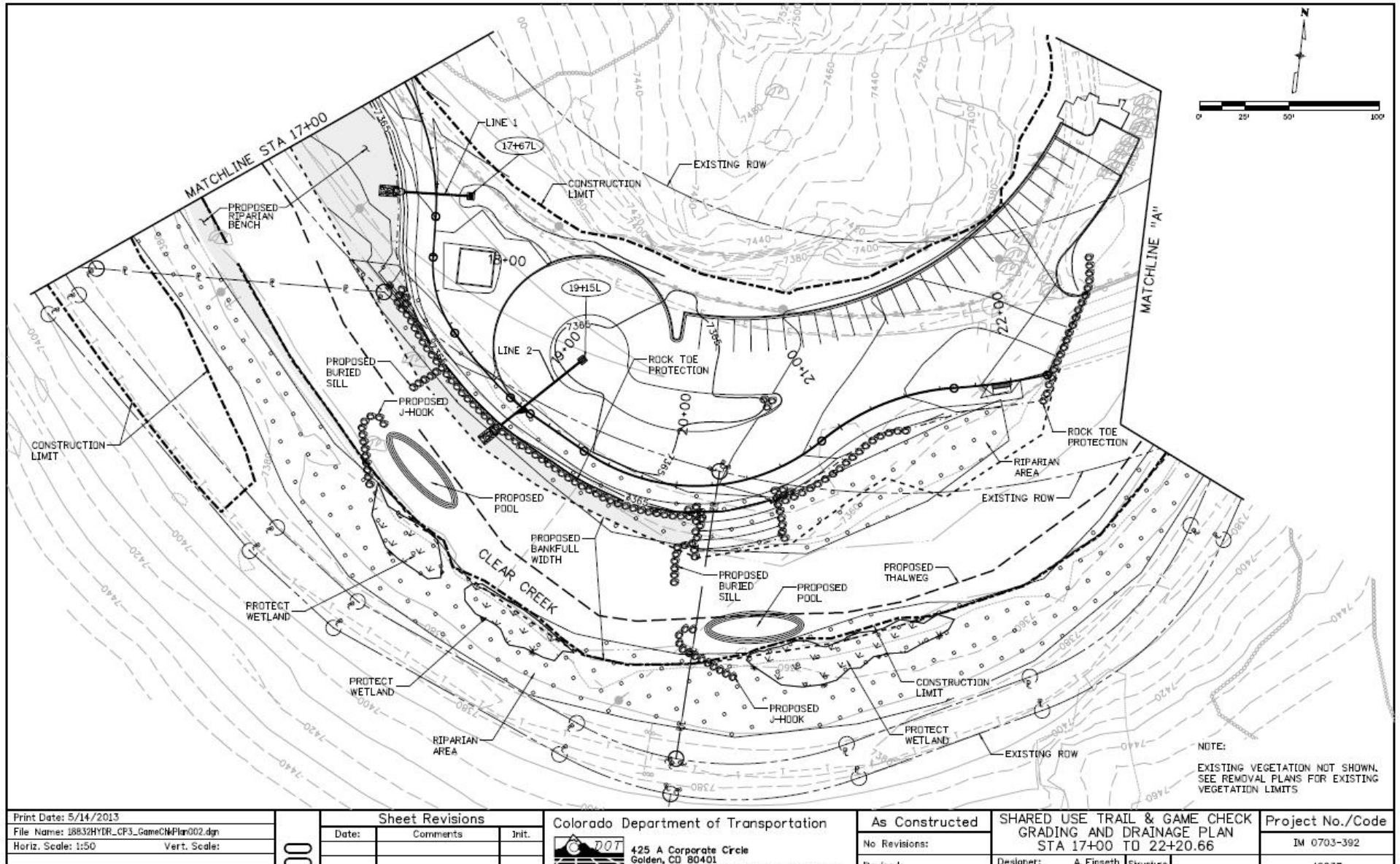
LEGEND

- INTERPRETIVE SIGNAGE
- NEW EVERGREEN TREE
- NEW DECIDUOUS TREE
- CLEAR CREEK GREENWAY TRAIL
- PROJECT LIMITS - 2,150 L.F. OF RIVER RESTORATION
- AREAS TO BE RESEED (VARYING SEED MIXES BASED ON PROXIMITY TO BANKFULL ELEVATION)
- FISHING ACCESS POINTS

Trailhead Area Design



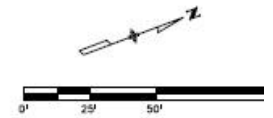
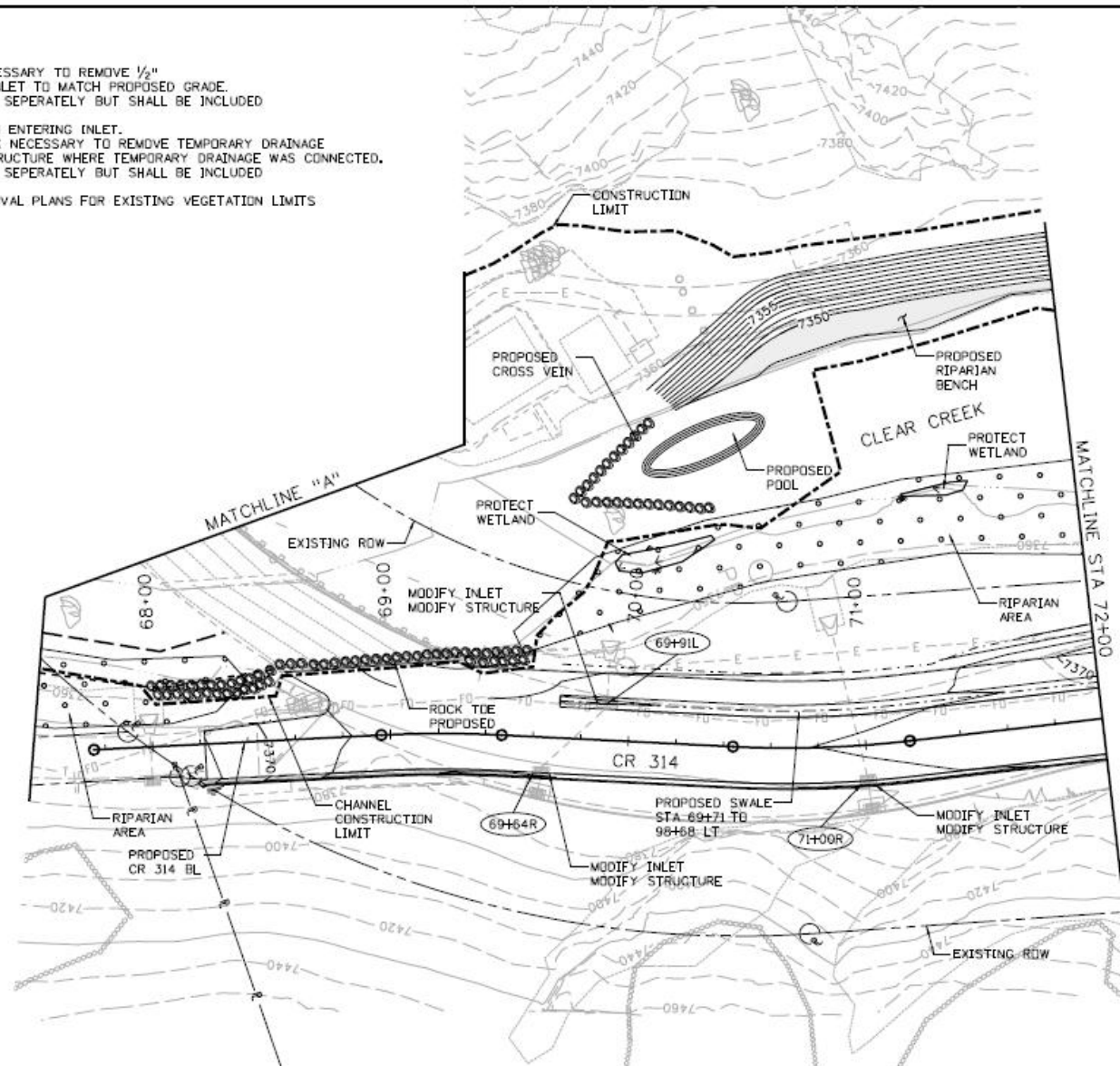
Trailhead Area Design



Trailhead Area Design

NOTES:

1. MODIFY INLET SHALL CONSIST OF WORK NECESSARY TO REMOVE 1/2" STRUCTURAL STEEL PLATE OVER EXISTING INLET TO MATCH PROPOSED GRADE. ALL WORK REQUIRED WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN ITEM 210-04020 MODIFY INLET.
CONTRACTOR SHALL PREVENT MATERIAL FROM ENTERING INLET.
2. MODIFY STRUCTURE SHALL CONSIST OF WORK NECESSARY TO REMOVE TEMPORARY DRAINAGE STRUCTURE(S) AND REPAIR THE EXISTING STRUCTURE WHERE TEMPORARY DRAINAGE WAS CONNECTED. ALL WORK REQUIRED WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN ITEM 210-04025 MODIFY STRUCTURE.
3. EXISTING VEGETATION NOT SHOWN. SEE REMOVAL PLANS FOR EXISTING VEGETATION LIMITS



Trailhead Area Design



| | | | | | |
|---|--------------------------------|---------------------------------------|----------------|---------------------------|---------------|
| Print Date: 5/14/2013 | Sheet Revisions | Colorado Department of Transportation | As Constructed | CR 314 | Project No./C |
| File Name: I8832HYDR_CP3_CR314Plan002.dgn | Date: Comments Init. | DOT 495 & Concrete Shop | No Revisions: | GRADING AND DRAINAGE PLAN | IM 0703-392 |
| Horiz. Scale: 1:50 Vert. Scale: | | | | STA 72+00 TO 78+00 | |

CSS Documentation

- Draft CSS Decision Tracking document provided for TT review
 - » Incorporated many minor suggestions
 - » Clarified construction and permanent improvements
 - » Added aesthetic guidance compliance (handout)
- Opportunities for Step 6 – Evaluation
 - » Design evaluation in 2013
 - » Construction evaluation in 2014
 - » Each process will include a brief survey, followed by a workshop as part of a TT meeting



Recap of Rafting Call May 16

- Portal blasting would be complete by the middle of next week so no more raft stops required over the Memorial Day Weekend – or for the rest of the summer.
- Signs to alert users of Clear Creek what to expect and how to get additional information have been posted at put-in locations
- Call participants agreed that they would like an email with basic information about the trailhead and in-stream improvements which we agreed to provide. If necessary, CDOT will convene to group to review their input.



I-70 Mountain Corridor

I-70 TWIN TUNNELS
eastbound



Next Steps

- Recap Action Items from Today's Discussion
- Upcoming project meetings
 - » Ongoing trailhead partnership meetings
 - » Package 3 FIR – May 29, 2013
 - » TT will meet as needed in 2013 – July 25, Sept. 26



END OF PRESENTATION



Aesthetics review of portals

