



Historic Preservation Board Agenda Item

DATE: DECEMBER 18, 2024
TO: DOUGLAS COUNTY HISTORIC PRESERVATION BOARD
FROM: BRITTANY CASSELL, CURATOR
LAUREN PULVER, PLANNING SUPERVISOR
SUBJECT: PTHROS FUNDING REQUEST – HIGH LINE CANAL CONSERVANCY
ORIGIN TRAILHEAD

SUMMARY

Staff has attached the information for a funding request from the High Line Canal Conservancy.

Parks and Trails, Open Space, and Historic Resources – Funding Application

APPLICATION SUBMITTAL DEADLINE: FEBRUARY 29th

PRESUBMITTAL MEETING DATE: JANUARY 30th

APPLICATION ACCEPTANCE DATE: 10/21/24

PROJECT NAME: *High Line Canal Origin Trailhead*

Summary Information:

Applicant Name: High Line Canal Conservancy

Type of Entity: Non-Profit Organization

Authorized Representative: Josh Phillips

Contact Information: josh.p@highlinecanal.org, 303-503-6114

Project Summary (brief description of scope and function): The 71-mile High Line Canal is a regional Recreational asset and landmark of our agricultural heritage. As Denver Water reduces its reliance on the Canal for irrigation delivery, the High Line Canal Conservancy (Conservancy) is working with communities across the region to plan for the Canal's long-term future, enhance the recreational experience on the Canal and interpret the Canal's unique history. The small, informal parking lot at the High Line Canal and Waterton Road is being reimagined as the High Line Canal Origin Trailhead. The Conservancy has worked closely with Parks, Trails and Building Grounds and engaged the surrounding community to develop a site plan that improves access and accessibility at the start of the High Line Canal trail while providing interpretation and education about the Canal where the ditch emerges from Waterton Canyon. The trailhead has the potential to be a regional draw, beckoning recreation users and history buffs from across the region to the enhanced trailhead and interpretive area. The site plan includes:

- Resurfacing the parking lot
- A restroom in the parking lot (porta potty)
- Improved connection to the Canal trail
- Two pause places along the trail with interpretation about the Canal's history
- A series of interpretive signage educating users about the Canal and its contribution to the County

Project Type (property acquisition, cultural resource protection, park or trail design and construction):
Trail design and construction

Property address or State Parcel #'s: 10401 Waterton Road, Littleton, CO 80125

State Parcel Number(s): N/A

Total acreage: The Canal includes 186 acres in Douglas County

Geographic area to be benefitted by the project (local, community, regional): Regional

Population to be benefitted by the project (including any special population groups): The project is regional and will benefit all of Douglas County. The accessibility improvements will benefit active adults and those with mobility challenges. Educational opportunities will benefit youth. Interpretation will serve the historic preservation community.

Environmental, cultural, scenic, landmark, or historic resource to be protected: The Canal, now over 140-years old, is an important environmental, cultural and historic resource that will be interpreted through the project.

Total project cost:

Requested Amount of County Funding: \$450,000

Applicant's financial contribution: \$150,000

Financial contributions from other grants or project partners: N/A

In-kind contributions from other project partners: N/A

Project Narrative

Overview

The High Line Canal (Canal) was built in the 1880s as a means of delivering irrigation water to serve the growing population of the region. Water was diverted from the South Platte in Waterton Canyon and followed the high point of the topography, dropping just two feet per mile as the Canal meandered 71 miles across the region. Originally a private venture, the Canal was acquired by Denver Water in 1924. In the 1970s, the old ditch rider's road was opened for recreation as Denver Water entered into lease agreements with the local jurisdictions along the Canal to maintain a regional trail for bikers, pedestrians and equestrians. Today, the Canal is in a time of transition as Denver Water reduces its reliance on the Canal for irrigation delivery. This corner of the County is also in a time of transition, as large-scale residential development changes the rural character that has been defined by the Canal for over 140 years. During this time of transition, the High Line Canal Origin Trailhead provides the opportunity to preserve this historic and natural resource while educating the community about the history of the Canal and its origins in Douglas County.

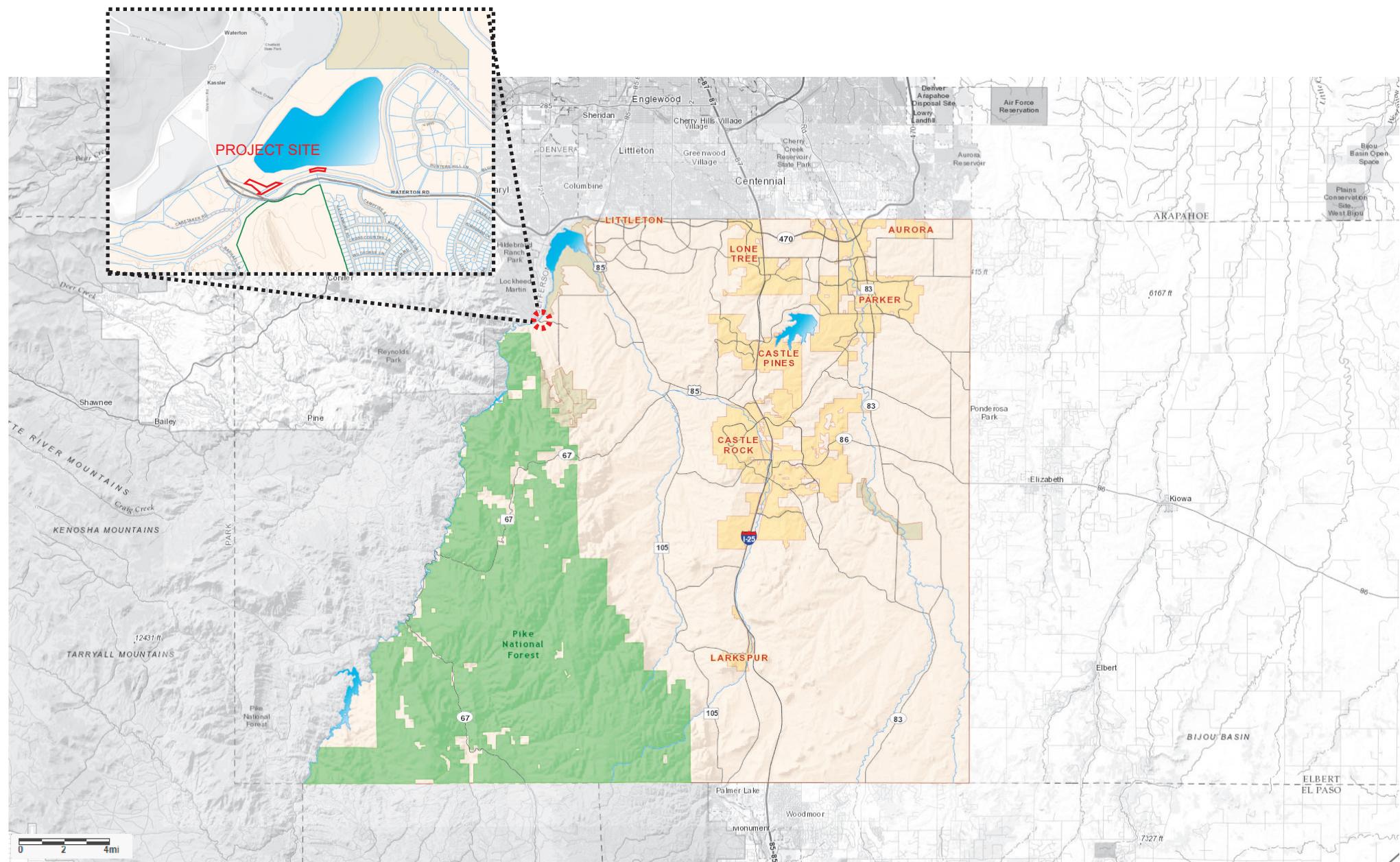
As use of the Canal changes, Douglas County has partnered with the High Line Canal Conservancy (Conservancy) and all of the jurisdictions along the Canal to plan for the Canal's long-term future. The Plan for the High Line Canal (The Plan), was completed in 2019 and it identified this small, informal parking lot on Waterton Road as regional opportunity to improve access to the Canal and share the Canal's origin story with the region. Design of the Origin Trailhead began in 2022 with funding from the Conservancy and Parks, Trails and Building Grounds. Through a series of public meetings, site walks and engagement of a community panel representing local neighborhoods, historic preservationists and recreation users, the Origin Trailhead site plan was completed in 2023. The Conservancy continues to manage design and engineering of these improvements and is requesting funding from the County to

construct these improvements in 2025. The funding request to the County is \$450,000 with a match of \$150,000 from the Conservancy.

The project is strongly aligned with the Board's core priority of historic & natural resources. The Canal is a unique combination of historic asset and natural resource and the Origin Trailhead will celebrate the unique history of the Canal while connecting County residents to the regional trail. The project would support the goals of the Comprehensive Master Plan, cementing the Canal as a center for community, providing opportunities for engagement with the natural environment and building community awareness about the Canal as a regional recreation and historic resource.

If this funding request is successful, the project will be constructed in 2025. Once constructed, the Conservancy will be responsible for maintaining signage at the project site while Parks, Trails and Building Grounds will maintain the trailhead and structures. The project will require a Location and Extent (L+E) review with the County and a pre-submittal meeting was held in 2023 to understand that process. A license will also be required from Denver Water to build improvements on the Canal property and they have reviewed the site plan.

[An excerpt from The Plan for the High Line Canal is included in the application materials but the full plan can be viewed at this link.](#)



HIGH LINE CANAL ORIGIN TRAILHEAD VICINITY MAP

PUBLIC ENGAGEMENT AND INPUT SUMMARY

Survey open from February 20th, 2023 through May 15th, 2023

Feedback Reach

205 Survey Respondents

80% of survey respondents have been to the Origin Trailhead

17 participants for in-person site walks, open house and meetings



Trail Use

92.1% Recreational

42% Walking

36% Biking

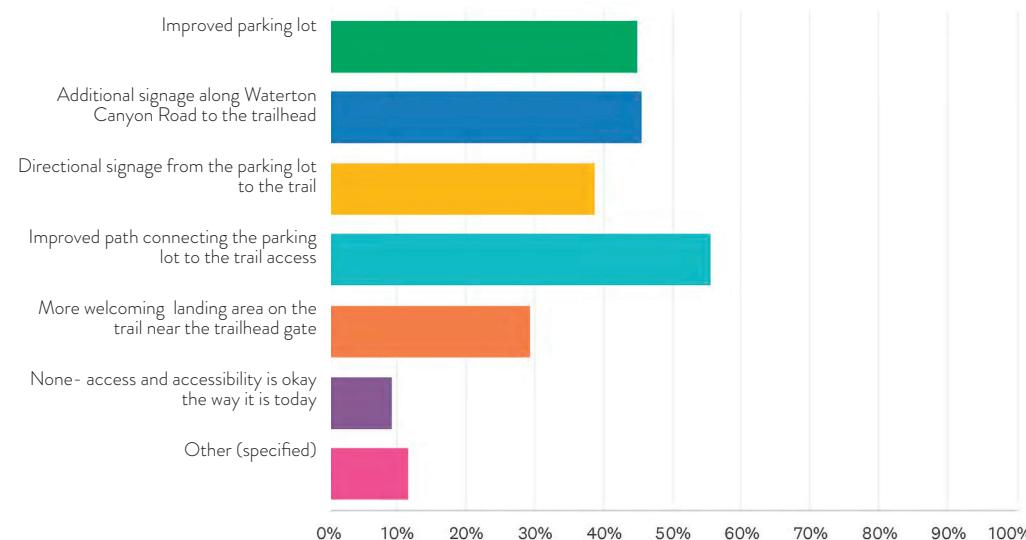
9% Running

9% Birding

WHAT WE HEARD

- A bathroom at the trailhead is important
- Accessibility of the trail for people with disabilities is a priority
- Respect the quiet, natural aesthetic of the trail in this location
- Trail surface improvements could help make trail more accessible
- Prioritize sun and rain shelters
- Safety and trail etiquette education are important
- Telling the story of the Canal, water and local history is a priority

PUBLIC ENGAGEMENT AND INPUT SUMMARY

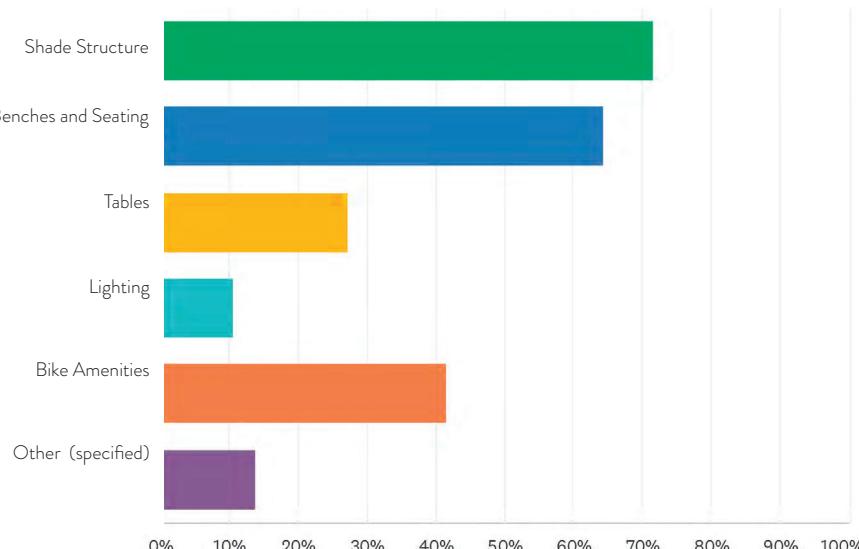


Access and Accessibility Feedback

56% *Improved path connecting the parking lot to the trail access*

46% *Additional signage along Waterton Canyon Road to the trailhead*

45% *Improved parking lot*

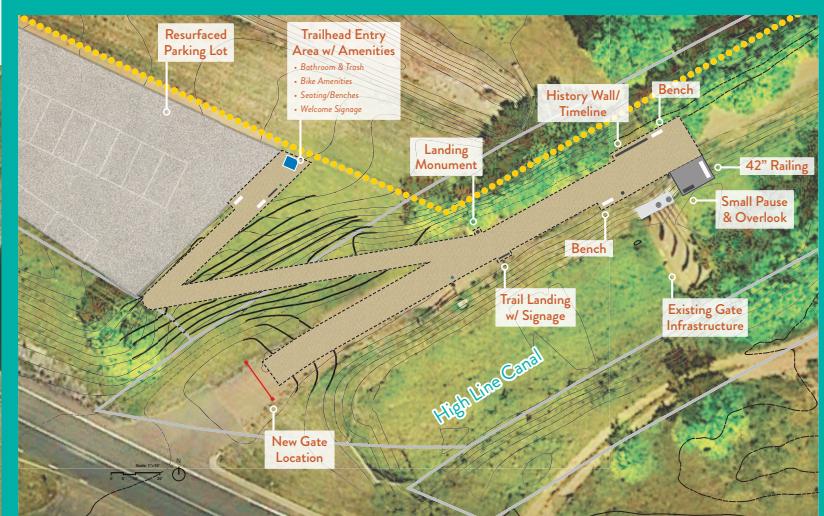


Site Elements

72% *Shade Structure*

64% *Benches/ Seating*

42% *Bike Amentities*



Trailhead Landing and North Overlook

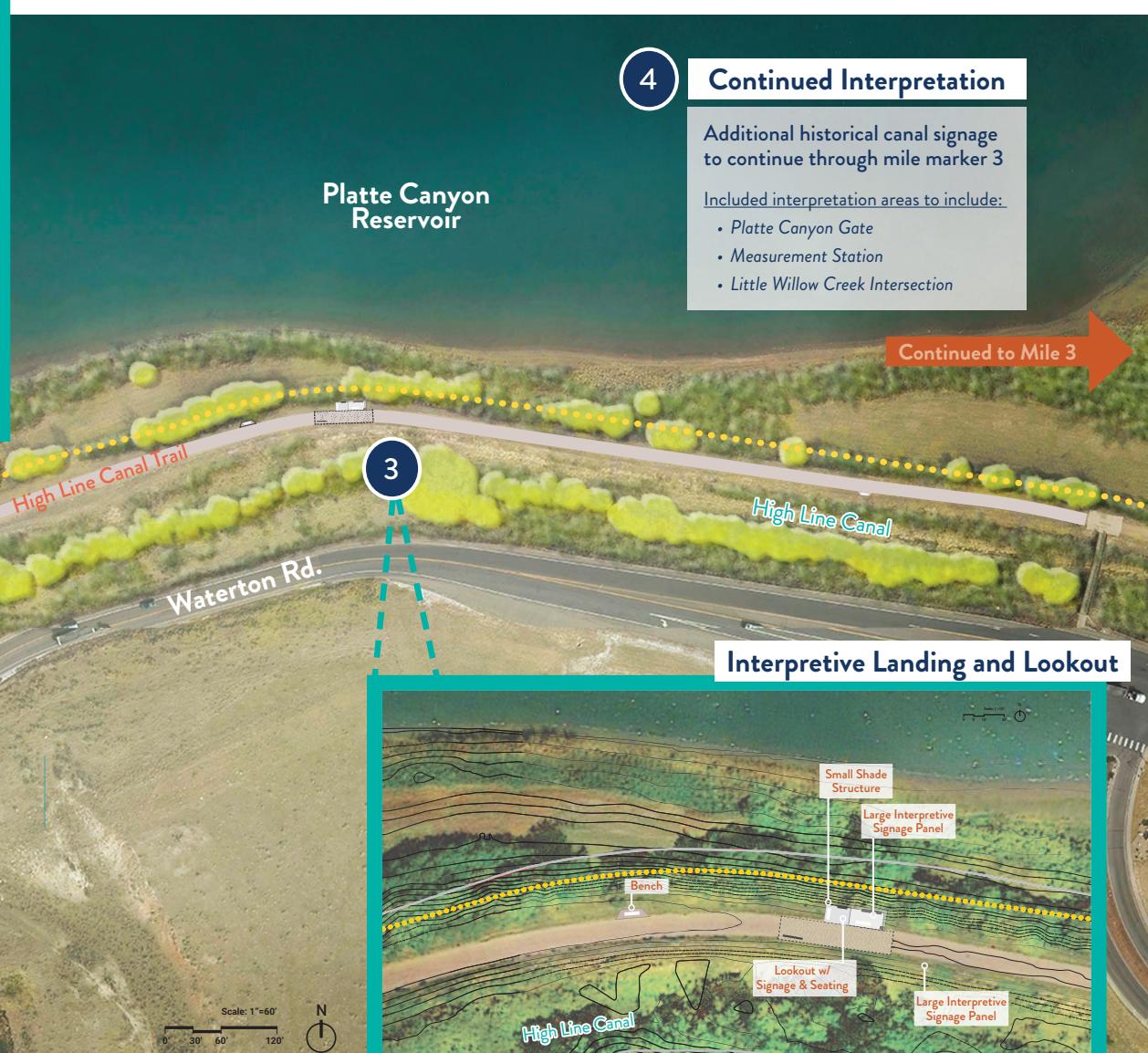
1

Resurfaced Lot and Proposed Restroom

2

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HIGH LINE CANAL ORIGIN TRAILHEAD IMPROVEMENTS



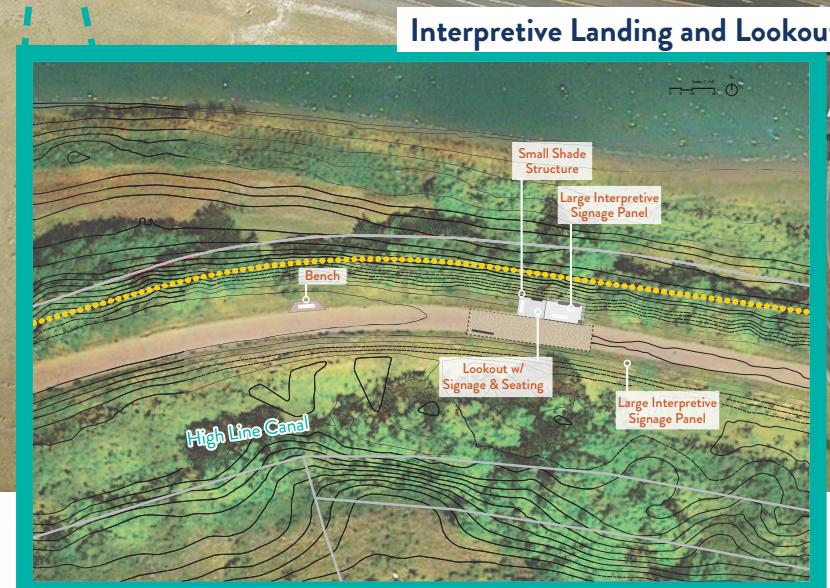
Continued Interpretation

Additional historical canal signage to continue through mile marker 3

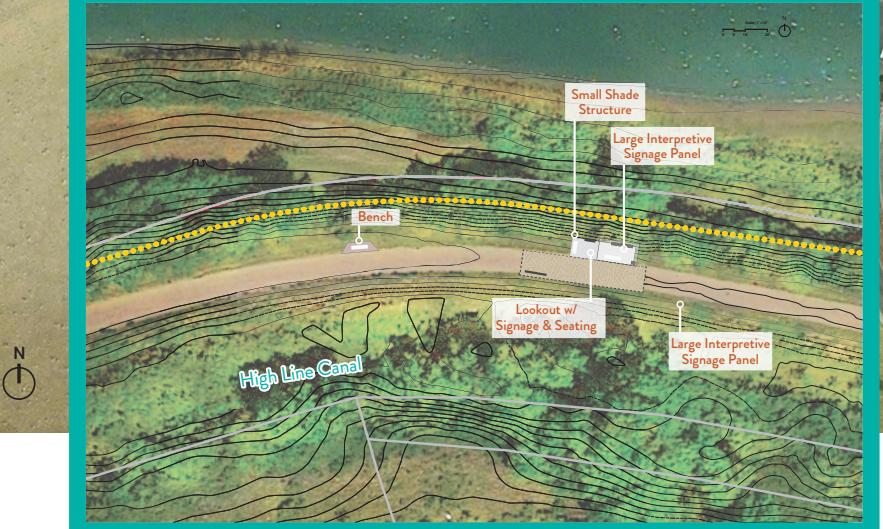
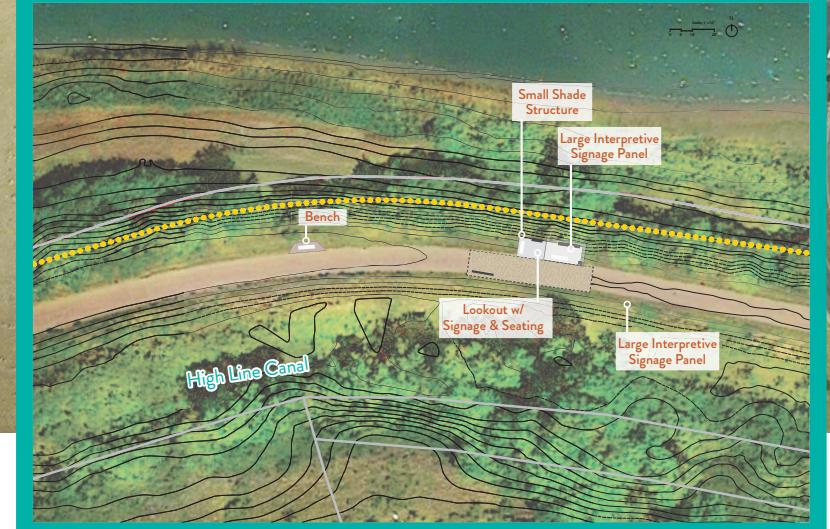
Included interpretation areas to include:

- Platte Canyon Gate
- Measurement Station
- Little Willow Creek Intersection

Continued to Mile 3



Interpretive Landing and Lookout



Trailhead



Landing monuments at nodes that orient users and define pause moments



Small pause moments set off of path and framed by landscape

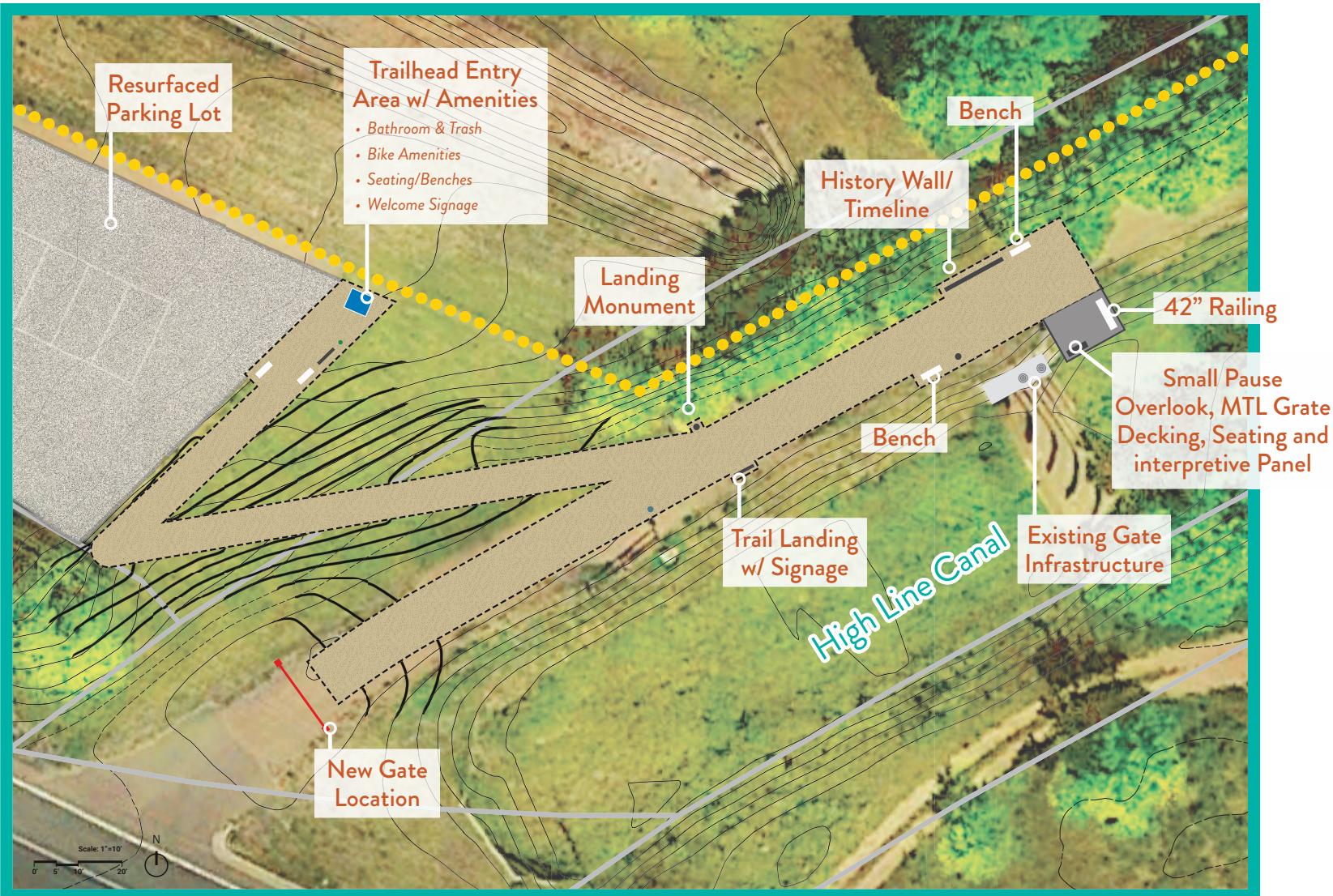


Historic Timeline



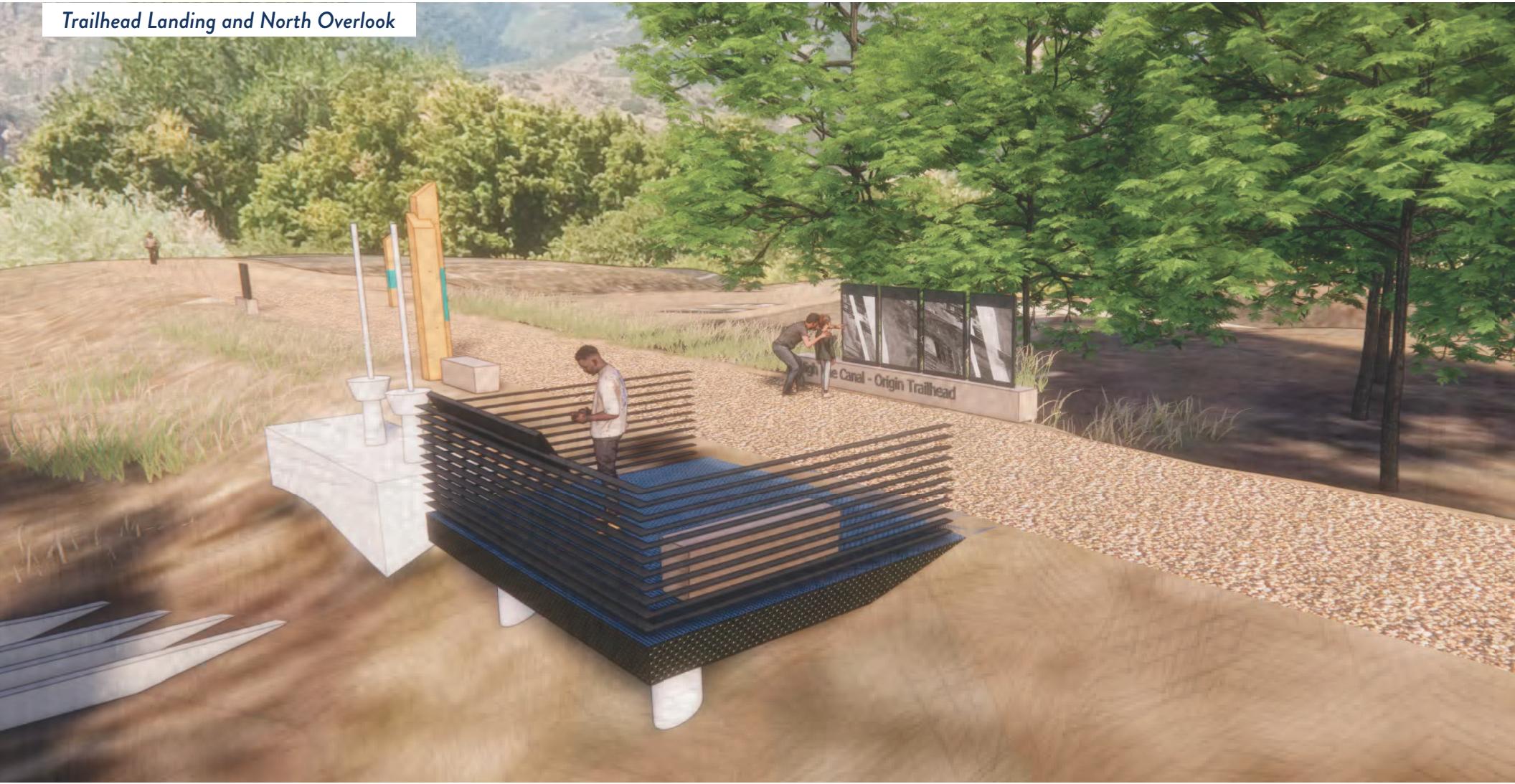
Port-o-potty Enclosure

Trailhead Landing and North Overlook



Trailhead

Trailhead Landing and North Overlook



Interpretive Landing and Lookout



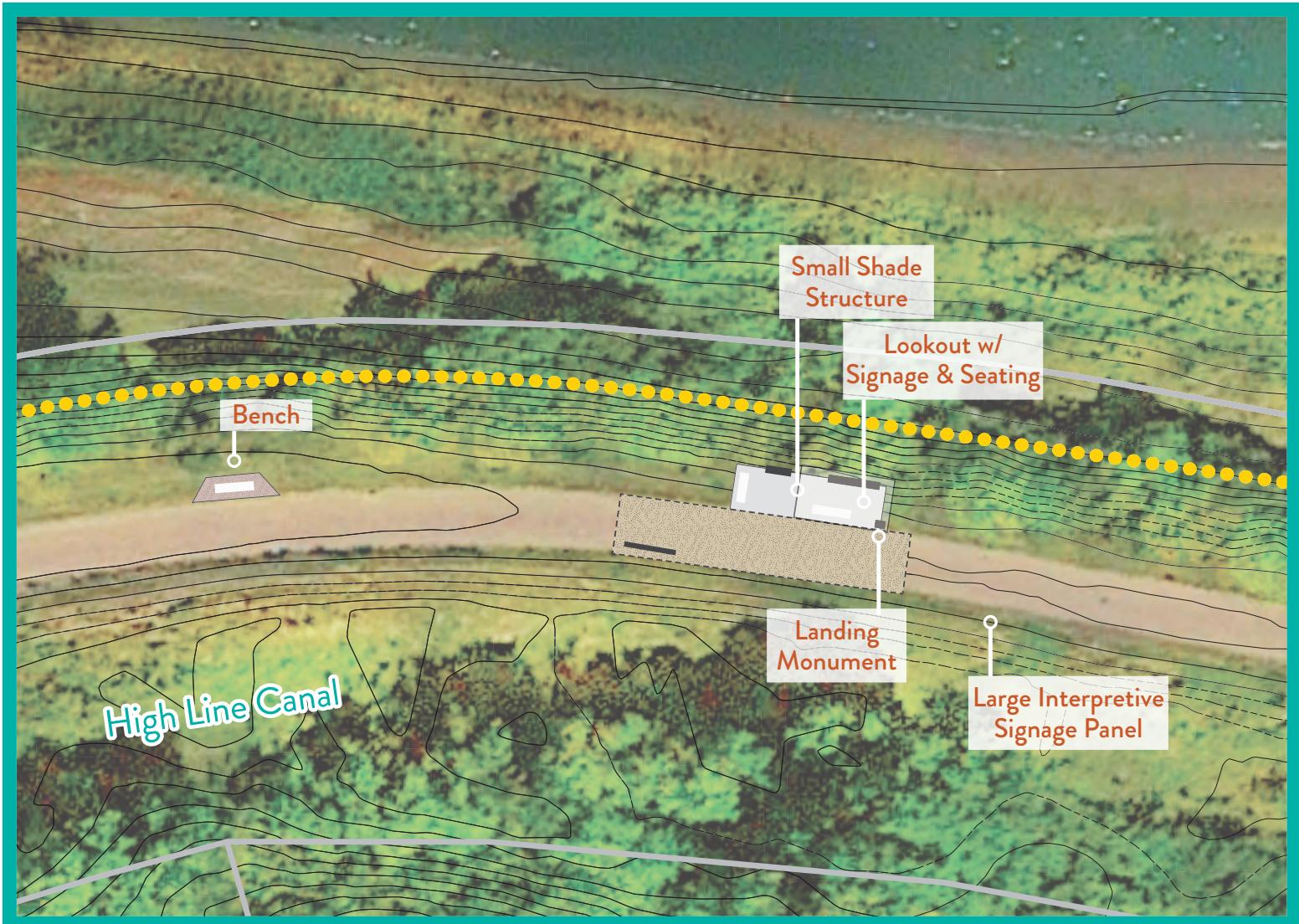
Small structure as destination for pause and rest



Metal, concrete and stone tie to Waterton Canyon Diversion Dam



Large scale mapping/visual interpretation



Interpretive Landing and Lookout



GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING.
2. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE SURVEY INFORMATION AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORK.
3. THE LOCATIONS OF UTILITIES ARE FOR GRAPHIC REPRESENTATION ONLY AND DO NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL DETERMINE LOCATION, DEPTH, AND SIZE OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ALL DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
4. THE CONTRACTOR SHALL OBTAIN, AT THEIR EXPENSE, ALL REQUIRED PERMITS FROM THE APPROPRIATE AGENCIES AND JURISDICTIONS.
5. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
6. THE CONTRACTOR SHALL PLAN TO WORK AROUND ANY SCHEDULED STREET OR PARK EVENTS OR CLOSURES, OR OTHER SPECIAL EVENTS IN THE AREA.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PAVEMENT MARKINGS, SIGNS, TRAFFIC SIGNALS, CONDUIT, OR ANY OTHER TRAFFIC CONTROL DEVICES THAT ARE AFFECTED OR DAMAGED DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPE TREES, HARDCAP, SITE FURNISHINGS, OR ANY OTHER AMENITIES TO REMAIN ON-SITE AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IF DAMAGE OCCURS.
9. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
10. THE CONTRACTOR SHALL KEEP A CURRENT SET OF CONSTRUCTION RECORD DRAWINGS (AS-BUILTS) ON SITE AT ALL TIMES. MARK ALL INFORMATION WITH A CONTRASTING COLOR, BE PREPARED TO REVIEW DOCUMENTS WITH THE PROJECT MANAGER. MAINTAIN RECORD DOCUMENTS IN A CLEAN, DRY, LEGIBLE CONDITION, APART FROM DOCUMENTS USED FOR CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARITY WITH ALL CONSTRUCTION DOCUMENTS.
12. ANY FILL MATERIAL OR SOILS TO BE MOVED TO AND PLACED ONGRADE NOTES:

 - 1. EXISTING CONTOUR INTERVAL IS 1 FOOT/FEET. PROPOSED CONTOUR INTERVAL IS 1 FOOT/FEET.
 - 2. PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN ON THE PLANS ARE DEFINED AS ELEVATED AREA AFTER PAVING, LANDSCAPING, ETC. THE CONTRACTOR SHALL COORDINATE THE SUBGRADE ELEVATIONS TO PROPERLY ACCOMMODATE PAVEMENT THICKNESS AND THICKNESS OF TOPSOIL AND SOD.
 - 3. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS.
 - 4. ALL TOPSOIL WHERE PHYSICALLY PRACTICABLE SHALL BE SALVAGED. NO TOPSOIL SHALL BE REMOVED FROM THE SITE EXCEPT AS SET FORTH IN THE APPROVED PLANS. TOPSOIL AND 5. SUBGRADE SHALL BE SEGREGATED AND STOCKPILED SEPARATELY. ALL TOPSOIL SHALL BE REMOVED FREE OF WEEDS, TOPSOIL AND SUBGRADE SHALL BE RESTRICTED TO WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS THAT WILL BE SEADED AND PLANTED. RUNOFF FROM THE STOCKPILED AREA SHALL BE CONTROLLED TO PREVENT EROSION AND RESULTING SEDIMENTATION OF RUNOFF.
 - 6. MATCH GRADE OF EXISTING PAVEMENT OR EARTHWORK WHERE NEW CONSTRUCTION MEETS EXISTING FEATURES.
 - 7. MAINTAIN A 1.5% MINIMUM, 2.0% MAXIMUM CROSS SLOPE FOR THE SIDEWALK TO ALLOW FOR PROPER DRAINAGE.
 - 8. ALL UTILITY COVERS, GRATES, ETC. EXISTING AND PROPOSED SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
 - 9. THE CONTRACTOR SHALL PROVIDE A SMOOTH, CONTINUOUS FINISHED GRADE FREE OF RUTS, DEPRESSIONS, AND IRRREGULARITIES. LANDSCAPE AREAS SHALL HAVE A MINIMUM SLOPE OF 2.0% AND BE PITCHED TO DRAIN UNLESS OTHERWISE SHOWN ON THE PLANS.
 - 10. DISCREPANCIES IN THE GRADING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
 - 11. MAXIMUM SLOPES IN LANDSCAPE AREAS SHALL NOT EXCEED 4:1 AND MINIMUM SLOPES IN LANDSCAPE AREAS SHALL BE 2% UNLESS OTHERWISE NOTED.
 - 12. FINAL GRADING TO BE REVIEWED AND APPROVED BY THE PROJECT MANAGER PRIOR TO LANDSCAPING.
 - 13. THE CONTRACTOR TO GRADE AND REPAIR ALL DISTURBED AREAS IN ORDER TO CREATE A SMOOTH TRANSITION FROM NEW GRADE, TO EXISTING GRADE, INCLUDING HARDCAP AND SOFTSCAPE AREAS. NOTIFY THE PROJECT MANAGER OF ANY CONFLICTS.
 - 14. PLANT MATERIAL TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR WHILE THE PROJECT IS UNDER CONSTRUCTION. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

15. SUITABLY IDENTIFY TREES AND IMPROVEMENTS INDICATED TO REMAIN.

SITE PROTECTION:

1. AT ALL TIMES THE CONTRACTOR SHALL TAKE PRECAUTIONS FOR PROTECTION OF EXISTING PUBLIC AND PRIVATE INSTALLATIONS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. ANY DAMAGED INSTALLATIONS, PUBLIC OR PRIVATE, SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
2. EXISTING PARKING LOT PAVING, SIDEWALK, OR CURB AND GUTTER DAMAGED BY CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION STAGING AREA WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE WORK.
3. TREE PROTECTION SHALL BE INSTALLED AND APPROVED BY THE CITY FORESTER PRIOR TO THE COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITIES. TREE PROTECTION SHALL REMAIN IN PLACE UNTIL SUBSTANTIAL COMPLETION IS ISSUED BY THE PROJECT MANAGER.
4. ONCE TREE PROTECTION IS APPROVED BY THE CITY FORESTER, THE TREE PROTECTION ZONE SHALL NOT BE RESIZED, MODIFIED, REMOVED, OR ALTERED IN ANY MANNER WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY FORESTER.
5. NO MATERIALS, DEBRIS, EQUIPMENT, OR SITE AMENITIES SHALL BE STORED WITHIN THE TREE PROTECTION ZONE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTENANCE OF ALL TREES IMPACTED DURING CONSTRUCTION UNTIL SUBSTANTIAL COMPLETION. THIS INCLUDES TREES WITHIN THE LIMIT OF WORK AND OUTSIDE THE PROJECT LIMITS.
7. AFFECTED BY IRRIGATION ZONES THAT ARE SHUT DOWN TO ACCOMMODATE WORK.
8. VERIFY EXISTING SITE INFORMATION INCLUDING, BUT NOT LIMITED TO, STREET GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS, AND GUTTERS TAKEN FROM THE CIVIL ENGINEERING DRAWINGS.

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www.livablecitiesstudio.com

SUBCONSULTANT NAME
Contractor
Address Line 1
Address Line 2
City
State
Zip
Phone
Fax
Email
Website URL

| REVISIONS / SUBMISSIONS | | |
|-------------------------|-----------|------------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 1/12/2024 | 30% PROGRESS DOCUMENTS |
| | | WY |
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HIGHLANDS RANCH, CO 80130

PROJECT

**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

ISSUE
30% PROGRESS SET

SHEET INFO

SHEET TITLE
GENERAL INFORMATION

SHEET NO.
2 OF 14

G002



LEGEND

- LIMIT OF WORK
- EXISTING FENCE
- EXISTING DECIDUOUS TREE
- TREE PROTECTION FENCE
- TREE PROTECTION ZONE
- EXISTING PAVING
- EXISTING VEGETATION
- EXISTING SHRUB/TREE STAND

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PROJECT
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TRAILHEAD IMPROVEMENTS**

ISSUE
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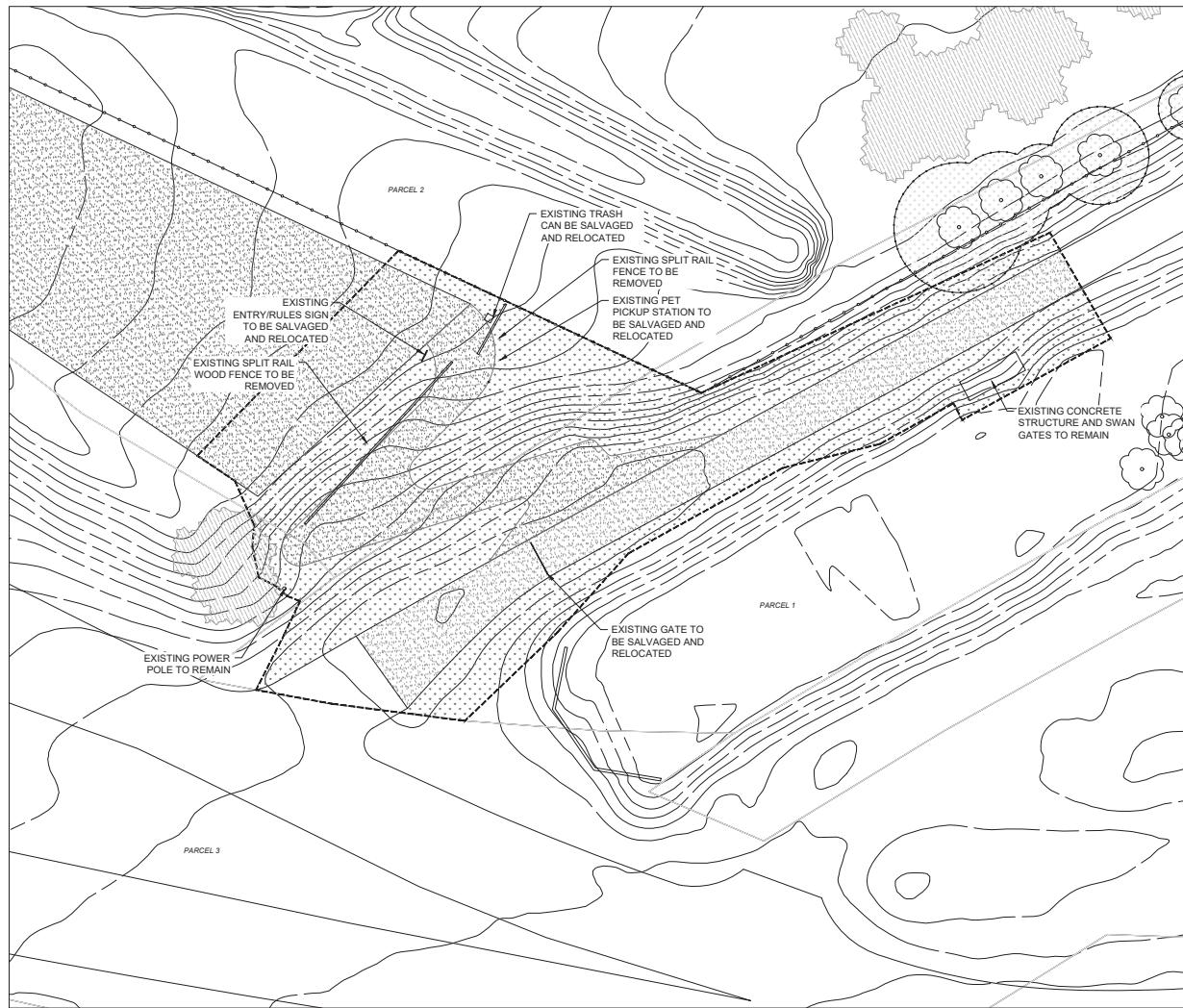
SHEET INFO

SHEET TITLE
**EXISTING CONDITIONS & TREE
CONSERVATION PLAN**

SHEET NO.

4 OF 14

L102



LEGEND

| | | |
|-------------------------|------|----------------------------|
| LIMIT OF WORK | 0-01 | TREE PROTECTION ZONE |
| EXISTING DECIDUOUS TREE | 0-02 | REMOVE CRUSHER FINES |
| EXISTING FENCE | 0-03 | REMOVE EXISTING VEGETATION |

NOTE: PRIOR TO ANY DEMOLITION AND/OR REMOVALS CONTRACTOR TO WALK SITE WITH DOUGLAS COUNTY PM AND LANDSCAPE ARCHITECT AND REVIEW CLEARING AND CHUBBING EXTENTS.

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PROJECT

**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

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SHEET INFO

SHEET TITLE
DEMO PLAN - PHASE ONE

SHEET NO.
5 OF 14

L103



LEGEND

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| PARCEL | LIMIT OF WORK | 0-01 | TREE PROTECTION ZONE |
| | EXISTING DECIDUOUS TREE | 0-02 | REMOVE CRUSHER FINES |
| | EXISTING FENCE | 0-03 | REMOVE EXISTING VEGETATION |

NOTE: PRIOR TO ANY DEMOLITION AND REMOVALS CONTRACTOR TO WALK SITE WITH DOUGLAS COUNTY PM AND LANDSCAPE ARCHITECT AND REVIEW CLEARING AND GRUBBING EXTENTS.

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PROJECT
**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

ISSUE
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SHEET INFO

SHEET TITLE
DEMO PLAN - PHASE 2

SHEET NO.
6 OF 14

L104

| REVISIONS / SUBMISSIONS | | | |
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Colorado

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Highlands Ranch, CO 80130

PROJECT

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TRAILHEAD IMPROVEMENTS

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SHEET INFO

SHEET TITLE
REFERENCE SITE PLAN

SHEET NO.
8 OF 14

L201



NORTH
0 20 50 100
ORIGINAL SCALE: 1:500

LEGEND

| | | |
|--------------|---------------------------|----------------------|
| MEASURE LINE | LIMIT OF WORK | CRUSHER FINES GRAVEL |
| - 5510 - | EXISTING MAJOR CONTOUR | NATIVE SEE AREA |
| - - - | EXISTING MINOR CONTOUR | METAL GRATING |
| — | PROPOSED CONTOUR | LANDSCAPE BOULDER |
| ██████ | TREE PROTECTION ZONE | |
| — | EXISTING FENCE | |
| ▢▢▢▢ | EXISTING SHRUB/TREE STAND | |

REFERENCE NOTES

- 1 FIELD VERIFY TREE PROTECTION LIMITS ON SITE WITH OWNER AND PROJECT MANAGER. ALL LANDSCAPING WITHIN TREE PROTECTION TO BE PRESERVED. ANY WORK CONDUCTED IN THE TREE PROTECTION ZONE TO BE DONE BY HAND.
- 2 CONTRACTOR TO LIMIT DISTURBANCE/REMOVAL OF EXISTING VEGETATION AS MUCH AS POSSIBLE. VEGETATION / DEBRIS CLEARING TO BE CONFIRMED WITH PM PRIOR TO REMOVAL.
- 3 APPROXIMATE EXTENTS OF CRUSHER FINE TRAIL WORK. EXACT EXTENTS DEPENDENT ON CONSTRUCTION IMPACT / DISTURBANCE.

SITE DETAIL KEYNOTES

| | | |
|------|------------------------------------|-------------------------------|
| 1.0 | EXISTING CONDITIONS | SEE EXISTING CONDITIONS |
| 1.0 | EXISTING CRUSHER FINE TRAIL | SEE EXISTING CONDITIONS |
| 0.3 | EXISTING GRAVEL PARKING LOT | SEE EXISTING CONDITIONS |
| 0.4 | EXISTING SIGN | FIELD VERIFY- TO BE RELOCATED |
| 0.5 | EXISTING GATE | FIELD VERIFY- TO BE RELOCATED |
| 1.0 | SURFACES | DTL 1 / SHT. L401 |
| 1.1 | CRUSHER FINES | SEE SPECS |
| 1.0 | EXTERIOR IMPROVEMENTS | DTL 4 / SHT. L401 |
| 2.0 | LANDSCAPE BOULDER | DTL 4 / SHT. L401 |
| 2.1 | LANDSCAPE BENCH | DTL 4 / SHT. L401 |
| 2.2 | POST WITH DUST BAG DISPENSER | DTL 3 / SHT. L401 |
| 2.3 | BIKE PUMP STATION | DTL 7 / SHT. L401 |
| 2.4 | PORTA-POTTY | BY OWNER |
| 2.5 | METAL RAILING | DTL 2 / SHT. L404 |
| 2.6 | INTERPRETIVE SIGN - ENTRY | DTL 4 / SHT. L402 |
| 2.7 | INTERPRETIVE SIGN - TIME LINE | DTL 4 / SHT. L402 |
| 2.8 | INTERPRETIVE SIGN - LOW | DTL 1 / SHT. L402 |
| 2.10 | INTERPRETIVE SIGN - RAILING | DTL 6 / SHT. L401 |
| 2.11 | MONUMENT SIGN - SINGLE | DTL 3 / SHT. L404 |
| 2.12 | MONUMENT SIGN - DOUBLE | DTL 3 / SHT. L402 |
| 2.13 | SIDE STRUCTURE | DTL 1 / SHT. L403 |
| 2.14 | SIGN TYPE B - WAYFINDING MAP KIOSK | DTL 1 / SHT. L404 |
| 2.15 | TRASH | FIELD VERIFY- TO BE RELOCATED |
| 2.16 | RELOCATED GATE | FIELD VERIFY- TO BE RELOCATED |
| 2.17 | OVERLOOK | DTL 1 / SHT. L404 |
| 3.0 | PLANTING | SEE SPECS |
| 3.1 | TREE | SEE SPECS |
| 3.1 | NATIVE SEEDING | SEE SPECS |

| REVISIONS / SUBMISSIONS | | | |
|-------------------------|-----------|------------------------|----|
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| 2 | | | |
| 3 | | | |

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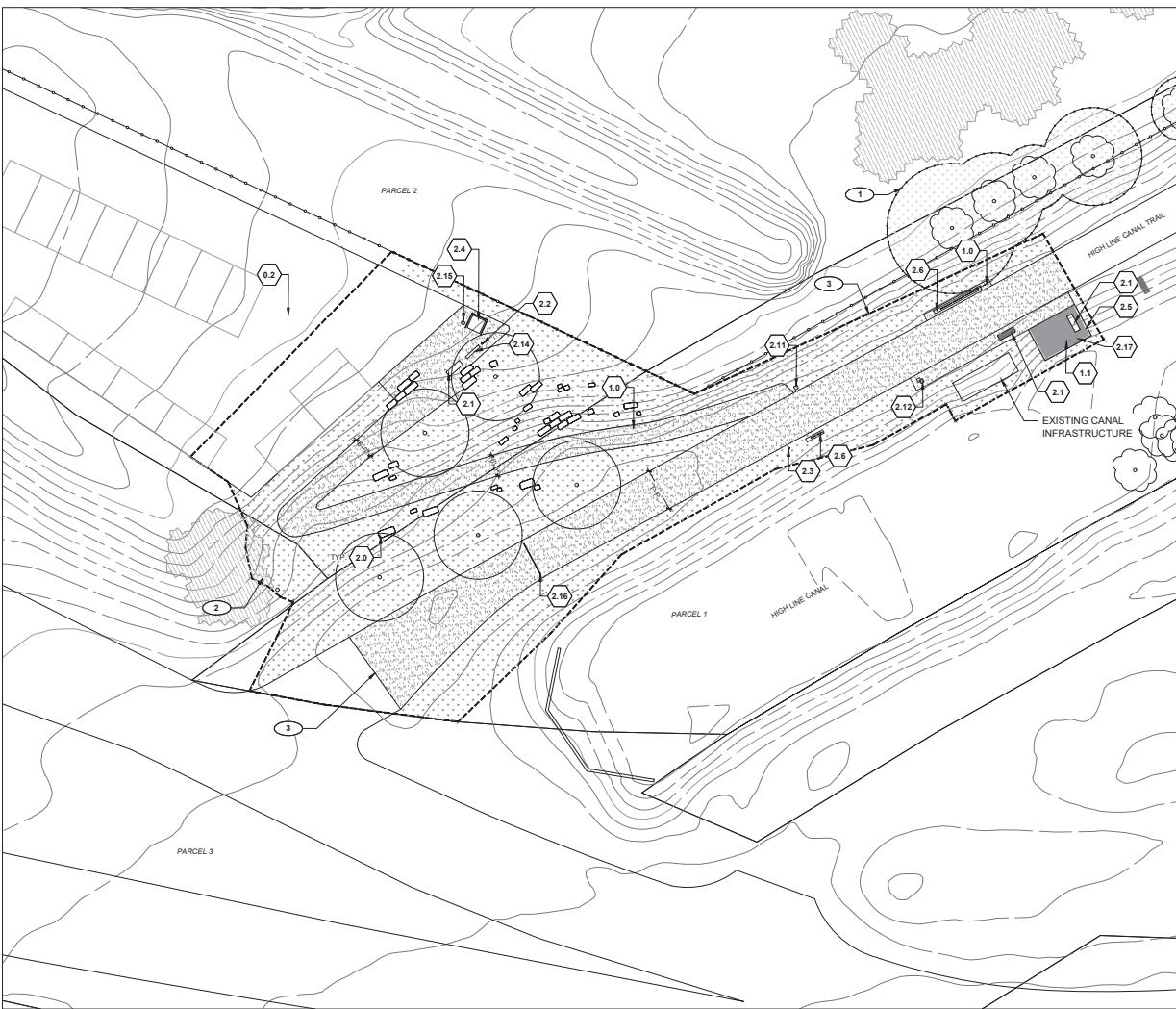
HIGH LINE CANAL CONSERVANCY
4010 E ORCHARD ROAD
CENTENNIAL, CO 80121



Douglas
County
Colorado

Douglas County Colorado
300 E. Colfax Avenue
Highlands Ranch, CO 80130

PROJECT
HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS



NORTH
0 2 4 6 8 10 12
ORIGINAL SCALE: 1"=16'

SITE DETAIL KEYNOTES

| | | |
|------|------------------------------------|-----------------------------|
| 0.0 | EEXISTING CONDITIONS | SEE EXISTING CONDITIONS |
| 0.1 | EXISTING GRAVEL TRAIL | SEE EXISTING CONDITIONS |
| 0.2 | EXISTING GRAVEL PARKING LOT | SEE EXISTING CONDITIONS |
| 0.3 | TREE PROTECTION | FIELD VERIFY- TO BE LOCATED |
| 0.4 | EXISTING SIGN | FIELD VERIFY- TO BE LOCATED |
| 0.5 | EXISTING GATE | FIELD VERIFY- TO BE LOCATED |
| 1.0 | SURFACES | |
| 1.0 | CRUSHER FINES | DTL 1 / SHT. L401 |
| 1.1 | MESH GRADING | SEE SPECS |
| 2.0 | EXTERIOR IMPROVEMENTS | |
| 2.1 | LANDSCAPE BENCH | DTL 4 / SHT. L401 |
| 2.2 | POST WITH DOG BAG DISPENSER | DTL 8 / SHT. L401 |
| 2.3 | BIKE PUMP STATION | DTL 3 / SHT. L401 |
| 2.4 | PORTA-POTTY | BY OWNER |
| 2.5 | METAL RAILING | DTL 7 / SHT. L401 |
| 2.6 | HIGH LINE CANAL ENTRY | DTL 2 / SHT. L404 |
| 2.7 | INTERPRETIVE SIGN - TIMELINE | DTL 4 / SHT. L402 |
| 2.8 | INTERPRETIVE SIGN - LOW | DTL 1 / SHT. L402 |
| 2.9 | INTERPRETIVE SIGN - RAILING | DTL 6 / SHT. L401 |
| 2.10 | MONUMENT SIGN - SINGLE | DTL 3 / SHT. L404 |
| 2.11 | MONUMENT SIGN - DOUBLE | DTL 7 / SHT. L402 |
| 2.12 | PIPE STRUCTURE | DTL 9 / SHT. L403 |
| 2.13 | SIGN TYPE B - WAYFINDING MAP KIOSK | DTL 4 / SHT. L404 |
| 2.14 | TRASH | FIELD VERIFY- TO BE LOCATED |
| 2.15 | RELOCATED GATE | FIELD VERIFY- TO BE LOCATED |
| 2.16 | OVERLOOK | DTL 1 / SHT. L404 |
| 3.0 | PLANTING | |
| 3.0 | TREE | SEE SPECS |
| 3.1 | NATIVE SEEDING | SEE SPECS |

LEGEND

| | |
|----------|---------------------------|
| — | LIMIT OF WORK |
| — 5510 - | EXISTING MAJOR CONTOUR |
| — 5510 - | EXISTING MINOR CONTOUR |
| — | PROPOSED CONTOUR |
| — | TREE PROTECTION ZONE |
| — | EXISTING FENCE |
| — | EXISTING SHRUB/TREE STAND |
| — | CRUSHER FINES GRAVEL |
| — | NATIVE SEE AREA |
| — | METAL GRATING |
| — | LANDSCAPE BOULDER |

REFERENCE NOTES

- FIELD VERIFY TREE PROTECTION LIMITS ON SITE WITH OWNER AND PROJECT MANAGER. ALL LANDSCAPING WITHIN TREE PROTECTION TO BE PRESERVED. ANY WORK CONDUCTED IN THE TREE PROTECTION ZONE TO BE DONE BY HAND.
- CONTRACTOR TO LIMIT DISTURBANCE/REMOVAL OF EXISTING VEGETATION AS MUCH AS POSSIBLE. VEGETATION / DEBRIS CLEARING TO BE CONFIRMED WITH PM PRIOR TO REMOVAL.
- APPROXIMATE EXTENTS OF CRUSHER FINE TRAIL WORK. EXACT EXTENTS DEPENDENT ON CONSTRUCTION IMPACT / DISTURBANCE.

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SHEET INFO

SHEET TITLE
MATERIAL PLAN - PHASE ONE -
TRAILHEAD

SHEET NO.
9 OF 14

L202

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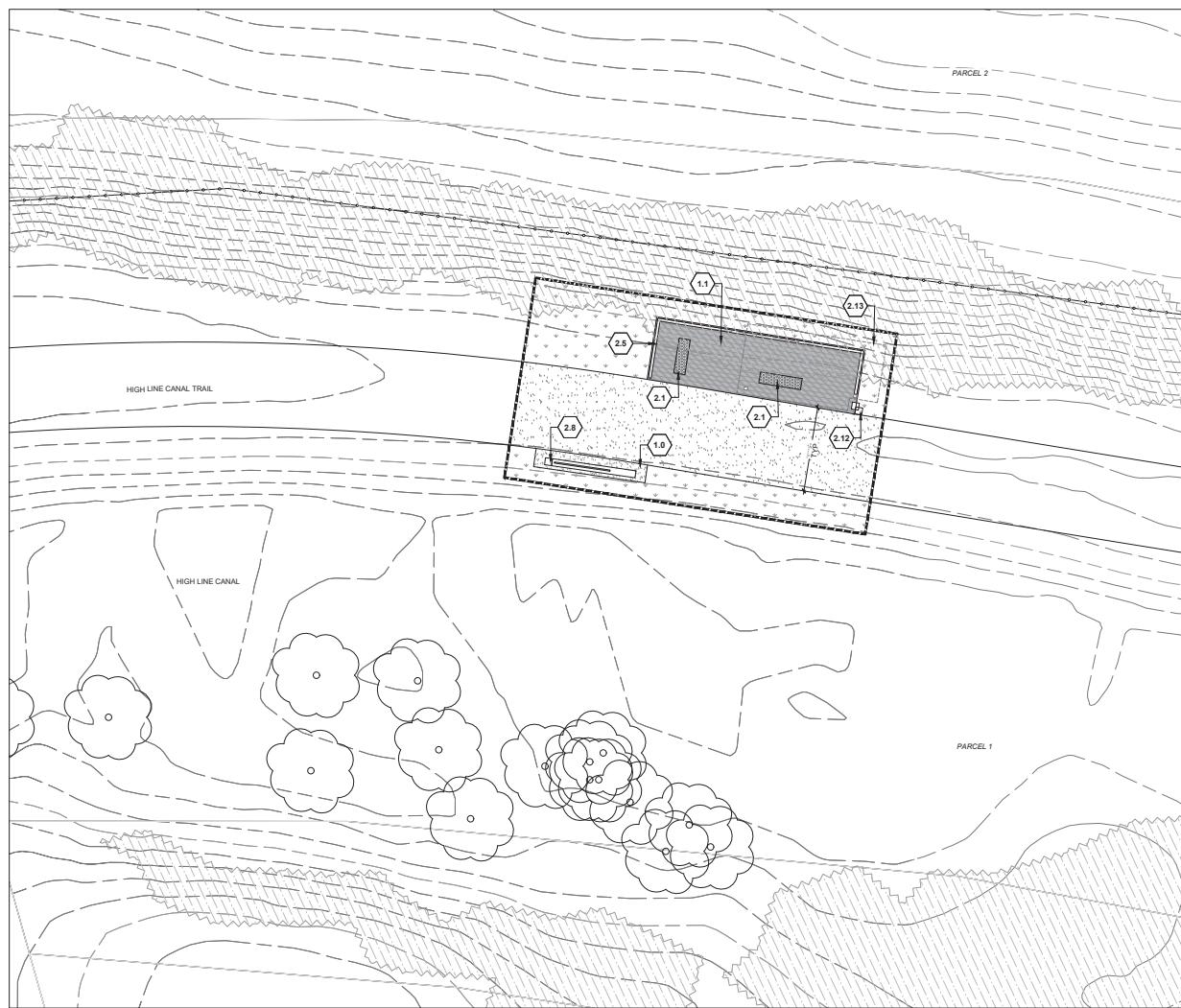
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CENTENNIAL, CO 80121



DOUGLAS
COUNTY
COLORADO

DOUGLAS COUNTY COLORADO
300 E COLUMBIA AVENUE
HIGHLANDS RANCH, CO 80130

PROJECT
HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS



NORTH
0 4' 8' 12' 16'
ORIGINAL SCALE: 1/8"=1'

SITE DETAIL KEYNOTES

| | | |
|------------------------|--|-----------------------------|
| 1.0 | EXISTING CONDITIONS | SEE EXISTING CONDITIONS |
| 1.0.1 | EXISTING GRAVEL TRAIL | SEE EXISTING CONDITIONS |
| 1.0.2 | EXISTING GRAVEL PARKING LOT | SEE EXISTING CONDITIONS |
| 1.0.3 | TREE PROTECTION | DTL, 5 / SHT, L401 |
| 1.0.4 | EXISTING SIGN | FIELD VERIFY- TO BE LOCATED |
| 1.0.5 | EXISTING GATE | FIELD VERIFY- TO BE LOCATED |
| 1.0 | SURFACES | |
| 1.0.1 | CRUSHER FINES | DTL, 1 / SHT, L401 |
| 1.0.2 | MESH GRATING | SEE SPECS |
| 2.0 | EXTERIOR IMPROVEMENTS | |
| 2.1 | LANDSCAPE BOULDER | DTL, 4 / SHT, L401 |
| 2.1 | LANDSCAPE BENCH | DTL, 8 / SHT, L401 |
| 2.2 | POST WITH DOG BAG DISPENSER | DTL, 3 / SHT, L401 |
| 2.3 | BIKE PUMP STATION | DTL, 7 / SHT, L401 |
| 2.4 | PORTA-POTTY | BY OWNER |
| 2.5 | METAL RAILING | DTL, 2 / SHT, L404 |
| 2.6 | HIGH LINE CANAL ENTRY | DTL, 4 / SHT, L402 |
| 2.7 | INTERPRETIVE SIGN - ENTRY | DTL, 4 / SHT, L402 |
| 2.8 | INTERPRETIVE SIGN - TIMELINE | DTL, 1 / SHT, L402 |
| 2.9 | INTERPRETIVE SIGN - LOW | DTL, 1 / SHT, L401 |
| 2.10 | INTERPRETIVE SIGN - RAILING | DTL, 6 / SHT, L401 |
| 2.11 | MONUMENT SIGN - SINGLE | DTL, 3 / SHT, L404 |
| 2.12 | MONUMENT SIGN - DOUBLE | DTL, 3 / SHT, L402 |
| 2.13 | PIPE STRUCTURE | DTL, 1 / SHT, L403 |
| 2.14 | SIGN TYPE B - WAYFINDING MAP KIOSK | DTL, 4 / SHT, L404 |
| 2.15 | TRASH | FIELD VERIFY- TO BE LOCATED |
| 2.16 | RELOCATED GATE | FIELD VERIFY- TO BE LOCATED |
| 2.17 | OVERLOOK | DTL, 1 / SHT, L404 |
| 3.0 | PLANTING | |
| 3.0.1 | TREE | SEE SPECS |
| 3.0.2 | NATIVE SEEDING | SEE SPECS |
| LEGEND | | |
| | LIMIT OF WORK | |
| - - - | EXISTING MAJOR CONTOUR | |
| - - - | EXISTING MINOR CONTOUR | |
| - - - | PROPOSED CONTOUR | |
| | CRUSHER FINES GRAVEL | |
| | NATIVE SEE AREA | |
| | METAL GRATING | |
| | LANDSCAPE BOULDER | |
| | TREE PROTECTION ZONE | |
| | EXISTING FENCE | |
| | EXISTING SHRUB/TREE STAND | |
| REFERENCE NOTES | | |
| 1 | FIELD VERIFY TREE PROTECTION LIMITS ON SITE WITH OWNER AND PROJECT MANAGER. ALL LANDSCAPING WITHIN TREE PROTECTION TO BE PRESERVED. ANY WORK CONDUCTED IN THE TREE PROTECTION ZONE TO BE DONE BY HAND. | |
| 2 | CONTRACTOR TO LIMIT DISTURBANCE/REMOVAL OF EXISTING VEGETATION AS MUCH AS POSSIBLE. VEGETATION / DEBRIS CLEARING TO BE CONFIRMED WITH PM PRIOR TO REMOVAL. | |
| 3 | APPROXIMATE EXTENTS OF CRUSHER FINE TRAIL WORK. EXACT EXTENTS DEPENDENT ON CONSTRUCTION IMPACT / DISTURBANCE. | |

ISSUE
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SHEET INFO

SHEET TITLE
MATERIAL PLAN - PHASE TWO - STRUCTURE AT BEND

SHEET NO.

10 OF 14

L203

| REVISIONS / SUBMISSIONS | | | |
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PROJECT
**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

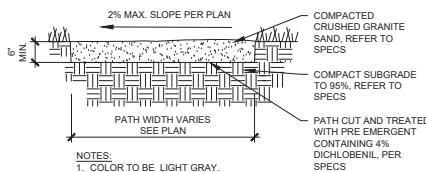
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SHEET INFO

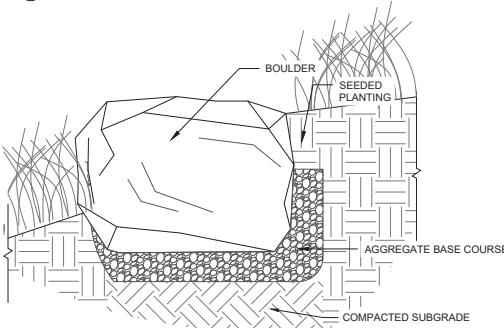
SHEET TITLE
LANDSCAPE DETAILS

SHEET NO.
11 OF 14

L401

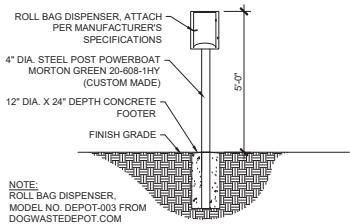


1 CRUSHED GRAVEL 1.6

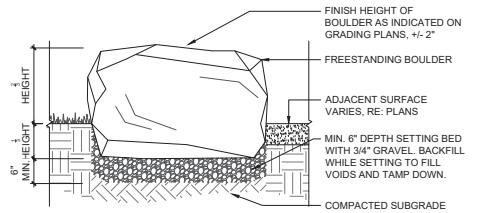


NOTES:
1. ENSURE APPROX. $\frac{1}{2}$ OF BOULDER IS BURIED BELOW ADJACENT GRADE ON LOW SPOTS.
2. BOULDER PLACEMENT SHALL BE STAKED AND APPROVED BY LA AND PROJECT MANAGER.
3. POSITION BOULDERS TO MINIMIZE GAPS BETWEEN ADJACENT BOULDERS OR REPLACE BOULDERS THAT CREATED GAPS GREATER THAN 3" UNLESS NOTED OTHERWISE ON PLANS.

2 RETAINING BOULDER 2.2

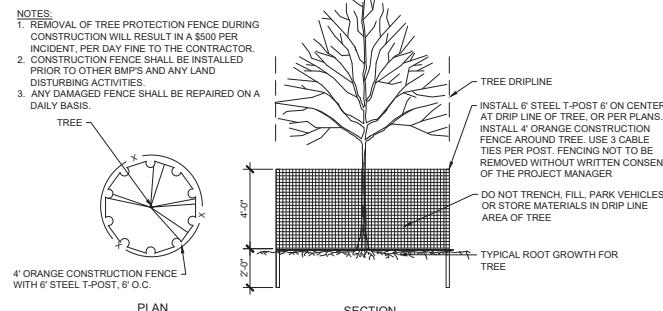


3 DOG POOP BAG DISPENSER 2.2

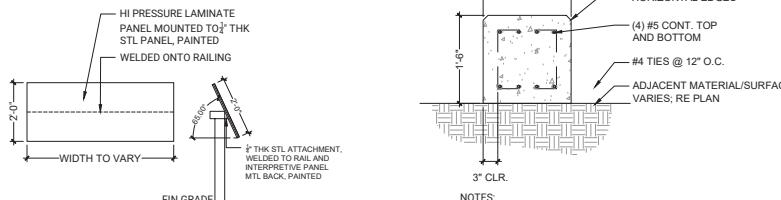


NOTES:
1. PLACE BOULDERS TO CONFIGURATIONS AND LOCATION AS SHOWN ON PLANS
2. CONTRACTOR TO STAKE LOCATIONS W/ WOODEN STAKE (W/ SIZE NOTED). STAKED LOCATIONS SHALL BE APPROVED PRIOR TO INSTALLATION BY LANDSCAPE ARCHITECT OR OWNER.
3. BOULDERS SET WITHIN DRIP LINE OF TREES TO BE HAND EXCAVATED TO DEPTH TO AVOID ROOT DAMAGE
4. DO NOT FRACURE BOULDER DURING PLACEMENT, SUCH ACTION WILL BE CAUSE FOR REJECTION
5. WASH OFF BOULDERS COMPLETELY AFTER PLACEMENT

4 LANDSCAPE BOULDER 2.9



5 TREE PROTECTION 6.3



6 INFORMATIONAL SIGNAGE - RAILING 6.0

6 LANDSCAPE BENCH 6.1

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PROJECT
**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

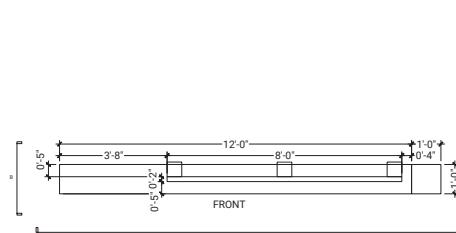
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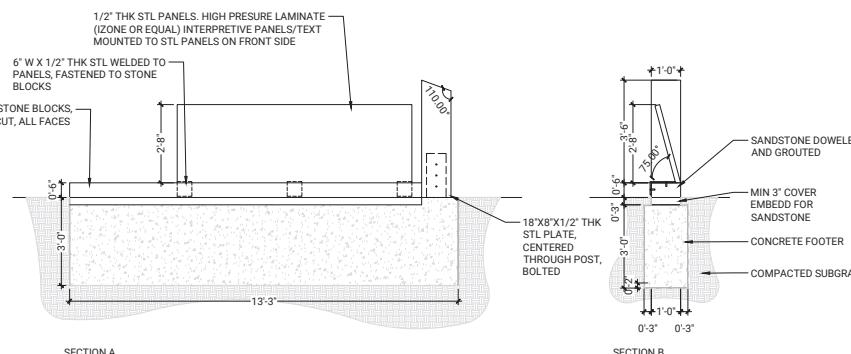
SHEET TITLE
LANDSCAPE DETAILS

SHEET NO.
12 OF 14

L402

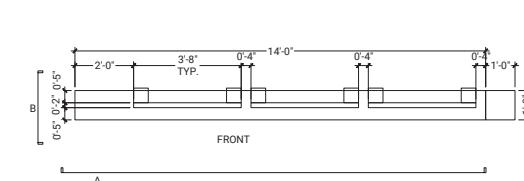
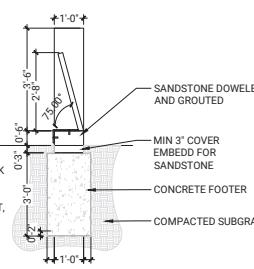


1 INFORMATIONAL SIGNAGE - LOW
SCALE: 1/2" = 1'-0"

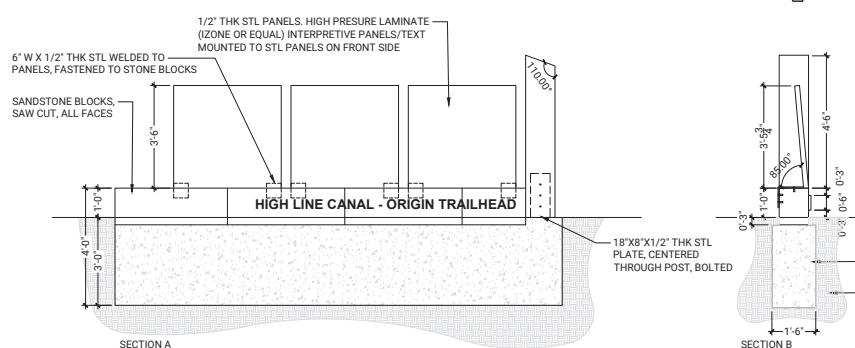


PLAN

SECTION A

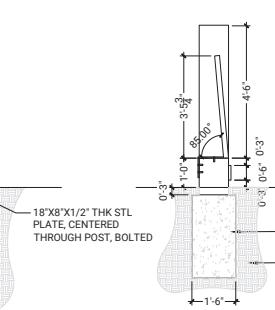


2 INFORMATIONAL SIGNAGE - HISTORICAL TIMELINE
SCALE: 1/2" = 1'-0"



PLAN

SECTION A

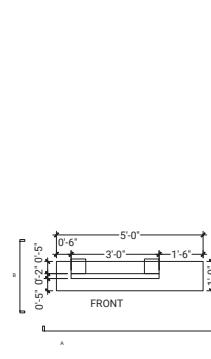


SECTION B

SECTION B

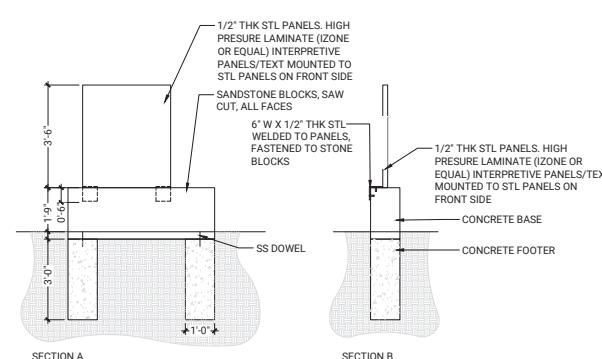
3 MONUMENT TOTEM - DOUBLE
SCALE: 1/2" = 1'-0"

PLAN ELEVATION A ELEVATION B



4 INFORMATIONAL SIGNAGE - ENTRY
SCALE: 1/2" = 1'-0"

PLAN



SECTION A

SECTION B

8.5

| REVISIONS / SUBMISSIONS | | | |
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PROJECT
**HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS**

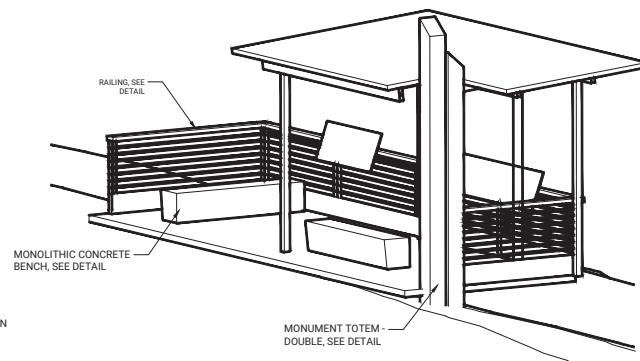
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SHEET INFO

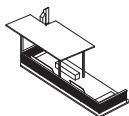
SHEET TITLE
LANDSCAPE DETAILS

SHEET NO.
13 OF 14

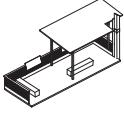
L403



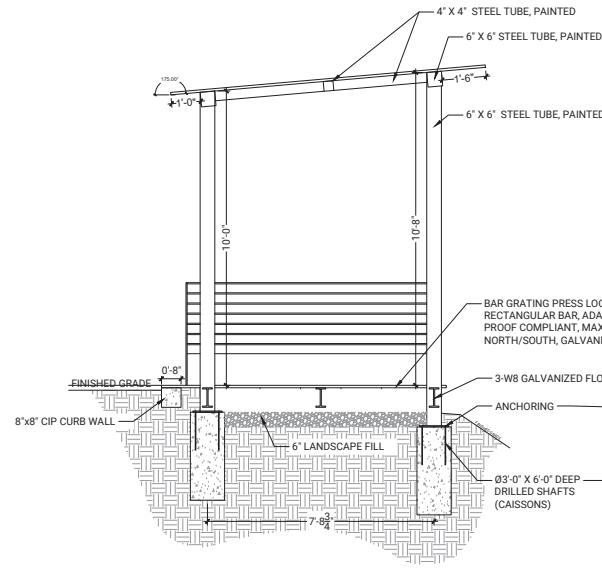
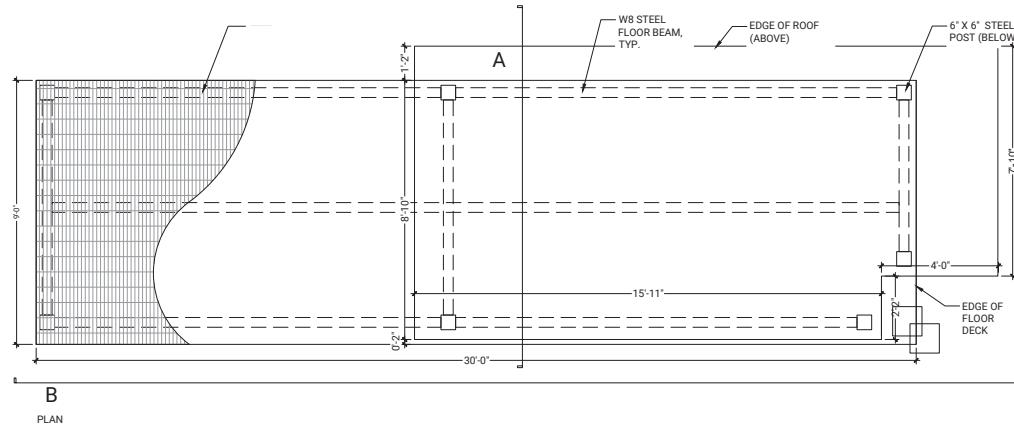
AXON



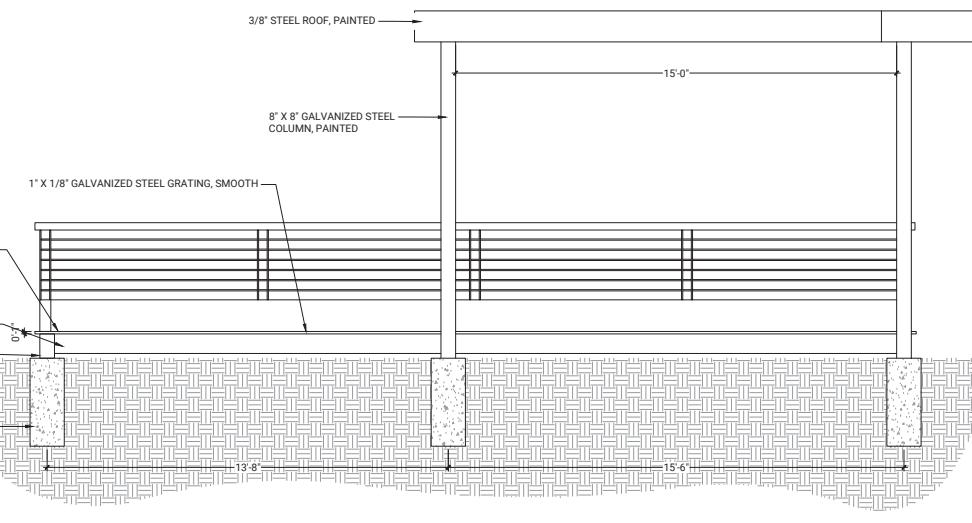
AXON



AXON



SECTION A



SECTION B

① **LANDING SHADE STRUCTURE**
SCALE: 1/2" = 1'-0"

13

| REVISIONS / SUBMISSIONS | | | |
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Highlands Ranch, CO 80130

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HIGH LINE CANAL - ORIGIN
TRAILHEAD IMPROVEMENTS

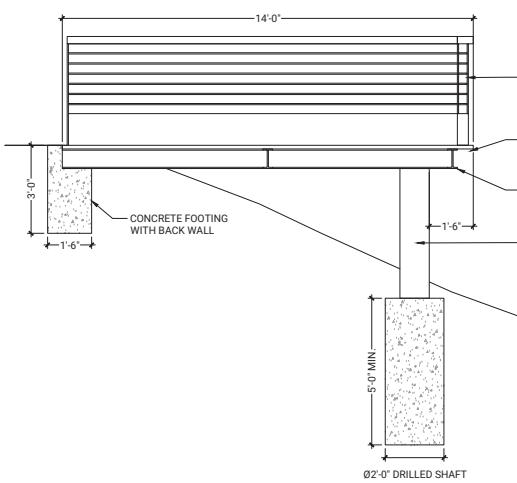
ISSUE
30% PROGRESS SET

SHEET INFO

SHEET TITLE
LANDSCAPE DETAILS

SHEET NO.
14 OF 14

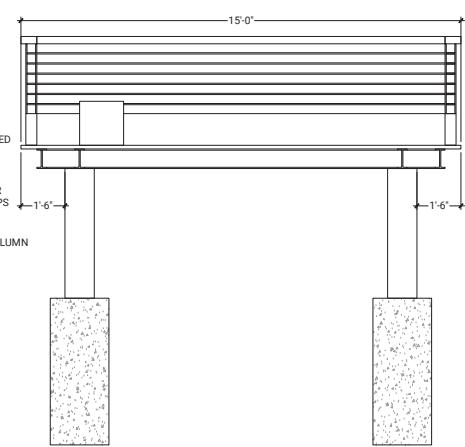
SECTION A



① OVERLOOK

SCALE: 1/2" = 1'-0"

SECTION B

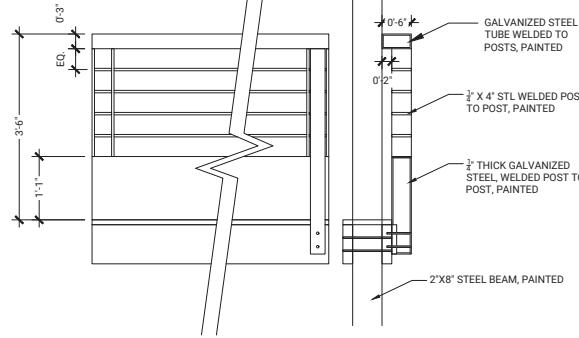


SCALE: 1" = 1'-0"

INTERIOR

EXTERIOR

SECTION



② RAILING

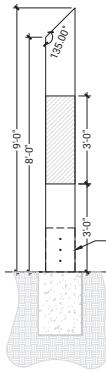
SCALE: 1" = 1'-0"

*NOTE: All sign messages, locations to be determined
BY THE HIGH LINE CANAL CONSERVANCY STAFF, FABRICATOR
TO FIELD VERIFY ALL SIGN LOCATIONS PRIOR TO SHOP
DRAWINGS, FABRICATION OR INSTALLATION.

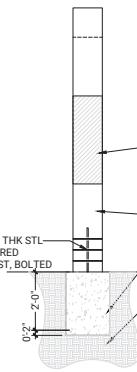
*NOTE: Relevant projection logo
and character zone color to be
used based on sign location.



PLAN



ELEVATION A



ELEVATION B

③ MONUMENT TOTEM - SINGLE

SCALE: 1/2" = 1'-0"

④ HLC SIGNAGE

SCALE: 1" = 1'-0"

① Sign Type B: Lg. Wayfinding Map Kiosk - Plan View
Scale: 1" = 1'-0"

② Sign Type B: Lg. Wayfinding Map Kiosk - Back View
Scale: 1" = 1'-0"

③ Sign Type B: Lg. Wayfinding Map Kiosk - Side View
Scale: 1" = 1'-0"

④ Sign Type B: Lg. Wayfinding Map Kiosk
Scale: 1" = 1'-0"

⑤ Sign Type B: Lg. Wayfinding Map Kiosk - Side View
Scale: 1" = 1'-0"

⑥ Sign Type B: Lg. Wayfinding Map Kiosk - Outline Plan View
Scale: 1" = 1'-0"

⑦ Sign Type B: Lg. Wayfinding Map Kiosk - Side View
Scale: 1" = 1'-0"

⑧ Sign Type B: Lg. Wayfinding Map Kiosk - Side View
Scale: 1" = 1'-0"

*NOTE: Relevant projection logo
and character zone color to
be used based on sign location.

*NOTE: Icon background color to
match relevant character zone color,
based on sign location.

High Line Canal Origin Trailhead Budget and Cost Estimates Overview

Revenue Budget

| Design and Engineering | Cost | Notes |
|---|------------------|--|
| Douglas County Parks, Trails and Building Grounds | \$36,000 | Funding provided in November 2021 |
| High Line Canal Conservancy | \$98,000 | Includes spending to date and planned spending in 2024 |
| Total | \$134,000 | |

Construction Drawings and Construction Costs

| | | Notes |
|-----------------------------------|------------------|---------------------------------|
| Funding Request | \$450,000 | Funding requested February 2024 |
| High Line Canal Conservancy Match | \$150,000 | Funding secured |
| Total | \$600,000 | |

Construction Cost Estimates

| | | Notes |
|--|------------------|-------------------|
| Final Design and Construction Drawings | \$22,000 | |
| Phase 1 - Trailhead Improvements and Landing | \$334,000 | See budget detail |
| Phase 2 - Interpretive Area and Lookout | \$244,000 | |
| Total | \$600,000 | |

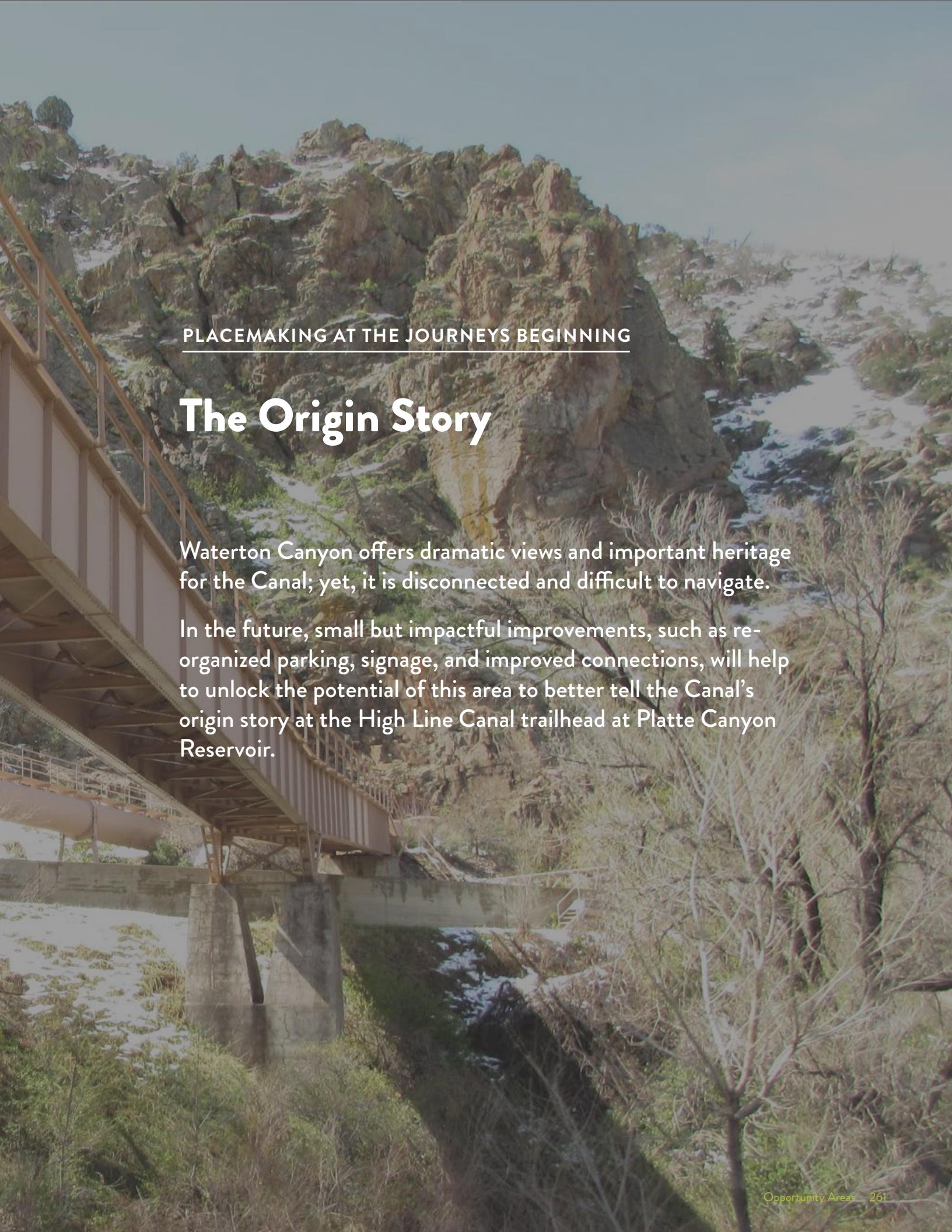
| High Line Canal Origin Trailhead Construction Costs | | | | | | |
|---|--|------|-------------|----------|---------------------|---|
| Phase 1: Trailhead Improvements and Landing | | | | | | |
| Item No. | Description | Unit | Unit Price | Quantity | Cost | Notes |
| | GENERAL REQUIREMENTS | | | | | |
| NHPP0703-442 | Tree Retention and Protection Fencing | EA | \$2,500.00 | 1 | \$2,500.00 | Allowance |
| | Tree Pruning | LS | \$2,500.00 | 1 | \$2,500.00 | Allowance |
| | SITE WORK | | | | | |
| 202-00xxx | Removal of Crusher Fines | SF | \$ 2.00 | 623 | \$ 1,246.00 | |
| 207-00205 | Topsoil | CY | \$ 50.00 | 4 | \$ 200.00 | 2" tilled to native |
| 208-00035 | Aggregate Bag | EA | \$ 1,500.00 | 1 | \$ 1,500.00 | Allowance |
| 208-00045 | Concrete Washout Structure | EA | \$ 2,000.00 | 1 | \$ 2,000.00 | |
| 208-00070 | Vehicle Tracking Pad | EA | \$ 3,000.00 | 1 | \$ 3,000.00 | |
| 304-06000 | Aggregate Base Course (Class 6) | Ton | \$ 35.00 | 13 | \$ 455.00 | Sign Wall (13x2x.5) |
| 607-11525 | Fence (Plastic) | LF | \$ 4.00 | 161 | \$ 644.00 | |
| 625-00000 | Construction Surveying | LS | \$ 3,500.00 | 1 | \$ 3,500.00 | |
| | EARTHWORK | | | | | |
| 201-00000 | Clearing and Grubbing | LS | \$ 2,000.00 | 1 | \$ 2,000.00 | |
| | Earthwork Grading | CY | \$ 40.00 | 14 | \$ 553.20 | Approx 3" over site |
| | EXTERIOR IMPROVEMENTS | | | | | |
| | Crushed Stone Paving | SF | \$ 3.50 | 623 | \$ 2,180.50 | Per Drawings |
| | Finish Grading, Soil Preparation and Soil Amendments | SF | \$ 0.60 | 556 | \$333.60 | |
| 208 | Mulching (Weed Free Straw) | Acre | \$ 3,000.00 | 0.05 | \$ 150.00 | |
| 212-00006 | Seeding (Native) | Acre | \$ 4,000.00 | 0.05 | \$ 200.00 | |
| 212-00006 | Temporary Watering | Acre | \$ 8,000.00 | 0.05 | \$ 400.00 | |
| | Interpretive Signage Wall | LF | \$ 1,100.00 | 13.00 | \$ 14,300.00 | Concrete base rough formed, stone curb, angled metal sign, high pressure laminate sign panels mounted |
| | Stone Bench in Structure | EA | \$3,000.00 | 2 | \$6,000.00 | 12CF EA. 2 Total |
| | Monument at Structure | EA | \$6,000.00 | 1 | \$6,000.00 | Allowance |
| | OVERHEAD SHADE STRUCTURE | | | | | |
| 206-00000 | Structure Excavation | CY | \$ 30.00 | 15 | \$ 450.00 | |
| 304-06000 | Aggregate Base Course (Class 6) | Ton | \$ 35.00 | 10 | \$ 350.00 | for 6" gravel material under floor grating |
| 503-00024 | Drilled Caisson (24 Inch) | LF | \$ 400.00 | 12 | \$ 4,800.00 | |
| 503-00036 | Drilled Caisson (36 Inch) | LF | \$ 600.00 | 18 | \$ 10,800.00 | at posts for overhead shade support |
| 509-00000 | Structural Steel | LB | \$ 10.00 | 4,900 | \$ 49,000.00 | either galvanized or painted steel |
| 509-xxxxx | Steel Bar Grating | SF | \$ 40.00 | 245 | \$ 9,800.00 | galvanized ADA compliant |
| 509-xxxxx | Metal Panel Roof | SF | \$ 45.00 | 204 | \$ 9,180.00 | |
| 514-00200 | Pedestrian Railing (Steel) | LF | \$ 450.00 | 50 | \$ 22,500.00 | |
| 601-03XXX | Concrete Class D | CY | \$ 1,800.00 | 1.7 | \$ 3,060.00 | |
| 602-00000 | Reinforcing Steel | LB | \$ 2.00 | 300 | \$ 600.00 | |
| | SUBTOTAL | | | | \$160,402.30 | |
| | GENERAL COSTS | | | | | |
| | Mobilization and Demobilization (includes construction survey) | | | 11% | \$17,644.25 | |
| | General Contractor | | | 5% | \$6,020.12 | |
| | Erosion Control | | | 3% | \$4,812.07 | Includes F/A Minor Obtain Permits and Erosion Control Pay Items |
| | Materials Testing | | | 2% | \$3,208.05 | |
| | Hard Cost Contingency (15%) | | | 15% | \$24,060.35 | Includes Estimate Gaps |
| | SUBTOTAL | | | 36% | \$57,744.83 | |
| | SUBTOTAL BEFORE ADDITIONAL OWNER COSTS | | | | \$218,147.13 | |
| | Permitting and Enviro Oversight (DADS) | | | 3% | \$4,812.07 | |
| | Owner Contingency (10%) | | | 10% | \$16,040.23 | |
| | SUBTOTAL | | | 13% | \$20,852.30 | |
| | Interpretive Panels on Railing | LS | \$ 2,500.00 | 2.00 | \$ 5,000.00 | 2 Panels total (roughly 15 LF of panels) |
| | TOTAL | | | | \$243,999.43 | |

| High Line Canal Origin Trailhead Construction Costs | | | | | | |
|---|--|------|-------------|----------|---------------------|---|
| Phase 2: Interpretive Area and Lookout | | | | | | |
| Item No. | Description | Unit | Unit Price | Quantity | Cost | Notes |
| | GENERAL REQUIREMENTS | | | | | |
| NHPP0703-442 | Tree Retention and Protection Fencing | EA | \$2,500.00 | 1 | \$2,500.00 | Allowance |
| | Tree Pruning | LS | \$2,500.00 | 1 | \$2,500.00 | Allowance |
| | SITE WORK | | | | | |
| 202-00xxx | Removal of Crusher Fines | SF | \$ 2.00 | 623 | \$ 1,246.00 | |
| 207-00205 | Topsoil | CY | \$ 50.00 | 4 | \$ 200.00 | 2" tilled to native |
| 208-00035 | Aggregate Bag | EA | \$ 1,500.00 | 1 | \$ 1,500.00 | Allowance |
| 208-00045 | Concrete Washout Structure | EA | \$ 2,000.00 | 1 | \$ 2,000.00 | |
| 208-00070 | Vehicle Tracking Pad | EA | \$ 3,000.00 | 1 | \$ 3,000.00 | |
| 304-06000 | Aggregate Base Course (Class 6) | Ton | \$ 35.00 | 13 | \$ 455.00 | Sign Wall (13x2x.5) |
| 607-11525 | Fence (Plastic) | LF | \$ 4.00 | 161 | \$ 644.00 | |
| 625-00000 | Construction Surveying | LS | \$ 3,500.00 | 1 | \$ 3,500.00 | |
| | EARTHWORK | | | | | |
| 201-00000 | Clearing and Grubbing | LS | \$ 2,000.00 | 1 | \$ 2,000.00 | |
| | Earthwork Grading | CY | \$ 40.00 | 14 | \$ 553.20 | Approx 3" over site |
| | EXTERIOR IMPROVEMENTS | | | | | |
| | Crushed Stone Paving | SF | \$ 3.50 | 623 | \$ 2,180.50 | Per Drawings |
| | Finish Grading, Soil Preparation and Soil Amendments | SF | \$ 0.60 | 556 | \$333.60 | |
| 208 | Mulching (Weed Free Straw) | Acre | \$ 3,000.00 | 0.05 | \$ 150.00 | |
| 212-00006 | Seeding (Native) | Acre | \$ 4,000.00 | 0.05 | \$ 200.00 | |
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| | GENERAL COSTS | | | | | |
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| | SUBTOTAL | | | 13% | \$20,852.30 | |
| | Interpretive Panels on Railing | LS | \$ 2,500.00 | 2.00 | \$ 5,000.00 | 2 Panels total (roughly 15 LF of panels) |
| | TOTAL | | | | \$243,999.43 | |

High Line Canal Conservancy

Capital Campaign Cash Flow Projection (Approved January 2024)

| Category | Actuals | | Projected 2024 | Projected 2025 | Projected 2026 | Projected 2027 and beyond | Total |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------|-------------------|
| | 2019 - Dec 2023 | Projected 2024 | | | | | |
| Northeast Projects | | | | | | | |
| Total Cash Inflow from Confirmed Pledges | 2,968,910 | 36,486 | | | | | 3,005,396 |
| - Total Pending Grants/Donations | - | 4,637,667 | 631,167 | 631,167 | - | - | 5,900,000 |
| Total Cash Outflow | (1,905,469) | (6,963,876) | (974,807) | (496,843) | - | - | (10,340,995) |
| Southwest Projects | | | | | | | |
| Total Cash Inflow from Confirmed Pledges | 777,162 | 242,197 | | | | | 1,019,359 |
| - Total Pending Grants/Donations | | | | | | | |
| Expenses SW | | | | | | | |
| Tree Planting (Outside Northeast) | (146,895) | (335,500) | (300,000) | (270,000) | | | (1,052,395) |
| LDC Prelim Planning | (938) | (61,250) | | | | | (62,188) |
| Dry Creek Court Trailhead (Littleton YMCA) | (38,885) | | | | | | (38,885) |
| Horseshoe Park Amenities | (50,227) | (142,905) | | | | | (193,132) |
| Elati Street Pedestrian Bridge | (46,964) | (89,000) | | | | | (135,964) |
| HRMD Shared Trail | - | | (22,750) | | | | (22,750) |
| Little Willow Creek Gathering Area | - | | (10,000) | (30,625) | | | (40,625) |
| HLC Origin Trailhead | (29,130) | (78,444) | (142,799) | | | | (250,373) |
| Admin and Development | (168,701) | (40,317) | (26,180) | (17,453) | | | (252,652) |
| Total Cash Outflow | (481,739) | (747,416) | (501,729) | (318,078) | - | - | (2,048,963) |
| General Canal Wide (Capital) | | | | | | | |
| Total Cash Inflow from Confirmed Pledges | 354,319 | 210,000 | 110,000 | - | - | - | 674,319 |
| - Total Pending Grants/Donations | - | 190,681 | - | - | - | - | 190,681 |
| Total Cash Outflow | (105,648) | (192,293) | (134,930) | (360,940) | - | - | (793,811) |
| Other Revenue/Pledges | | | | | | | |
| Total Cash Inflow from Grant Overhead | 148,876 | 140,000 | - | - | | | 288,876 |
| Total Cash Inflow from Confirmed Pledges | 1,378,961 | 674,041 | 486,541 | 311,668 | | | 2,851,211 |
| - Total Pending Grants/Donations | - | - | - | - | - | - | - |
| Total Confirmed Project Revenue | 5,628,228 | 1,302,724 | 596,541 | 311,668 | - | - | 7,839,161 |
| - Total Pending Grants/Donations | - | 4,828,348 | 631,167 | 631,167 | - | - | 6,090,681 |
| Total Project Revenue | 5,628,228 | 6,131,072 | 1,227,708 | 942,835 | - | - | 13,929,842 |
| Total Expenses | (2,492,856) | (7,903,585) | (1,611,466) | (1,175,862) | - | - | (13,183,769) |
| Surplus/Deficit | 3,135,372 | (1,772,513) | (383,759) | (233,028) | - | - | 746,073 |
| Ending Cash Balance for Campaign Projects | 3,135,372 | 1,362,859 | 979,101 | 746,073 | 746,073 | | |
| Stewardship Fund | | | | | | | |
| Total Cash Inflow Long-term Confirmed Pledges | 3,777,442 | 2,540,000 | 1,615,000 | 1,175,000 | 125,000 | | 9,232,442 |
| - Total Pending Grants/Donations (Long-term) | - | 1,200,000 | - | - | - | - | 1,200,000 |
| Total Cash Inflow Short-term Confirmed Pledges | 525,000 | - | - | - | - | - | 525,000 |
| - Total Pending Grants/Donations (Short-term) | - | 1,100,000 | - | - | - | - | 1,100,000 |
| Total Stewardship Fund Balance | 4,302,442 | 4,840,000 | 1,615,000 | 1,175,000 | 125,000 | 125,000 | 12,057,442 |
| In-kind Property | | 5,000,000 | | | | | 5,000,000 |
| Total Campaign Revenue (Cash Basis) | 9,930,670 | 15,971,072 | 2,842,708 | 2,117,835 | 125,000 | 125,000 | 30,987,284 |



PLACEMAKING AT THE JOURNEY'S BEGINNING

The Origin Story

Waterton Canyon offers dramatic views and important heritage for the Canal; yet, it is disconnected and difficult to navigate.

In the future, small but impactful improvements, such as re-organized parking, signage, and improved connections, will help to unlock the potential of this area to better tell the Canal's origin story at the High Line Canal trailhead at Platte Canyon Reservoir.

Existing Condition

This reach of the High Line Canal offers dramatic views and important histories; yet it is difficult for visitors to navigate and disconnected.





ASSETS

- ◊ Beginning of trail and existing trailhead
- ◊ Wildlife
- ◊ Kassler Center and other historic resources
- ◊ South Platte River
- ◊ Foothills landscape
- ◊ Scenic views

CHALLENGES

- ◊ Visitor experience and orientation to the Canal
- ◊ Pedestrian connection from High Line Canal Trail to the Waterton Canyon Trailhead
- ◊ Balancing visitor use with wildlife
- ◊ Waterton road crossings



* The Canal will not be open to public access upstream of the trailhead at Platte Canyon Reservoir and Waterton Road.



Platte Canyon Reservoir

DESIGN STRATEGIES

1

Interpretive Moment

Create a scenic overlook with seating, shade and interpretive signage.

2

Improve Entrance

Create vehicular scale signage that alerts visitors of parking / Canal trail entrance. Shift the locked gate closer to Waterton Road to clarify entrance.

3

Make Waterton Road Safer

Improvements could include enhancing sidewalks, narrowing roadway widths and providing better pedestrian access at the bridge and allowing for future enhanced connections to local, regional and state wide trail systems.

CAPITAL COSTS

Overall Project Cost-\$2,445,000-\$3,250,000

Potential Phases

Improving the Entrance-\$225,000-\$290,000

Placemaking at the Origin-\$770,000-\$960,000

Connecting to Waterton Canyon-\$1,450,000-\$2,000,000

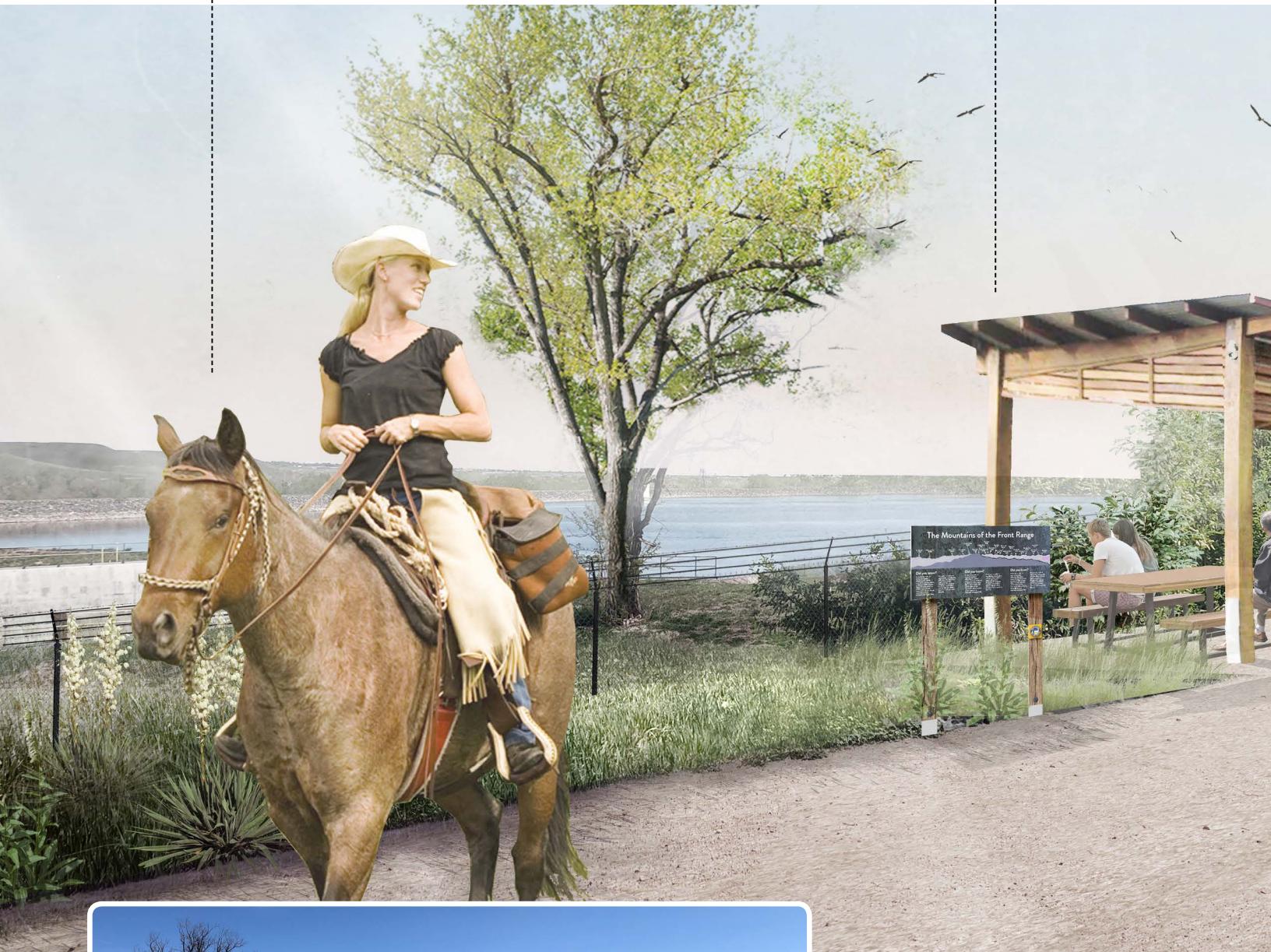
PROPOSED ENHANCEMENTS

Access and Connectivity

Ensure the trail allows for a variety of different user types.

Human Health and Comfort

Provide shaded places to sit, gather and enjoy the view.



Existing Condition

Innovative and Adaptive Reuse
Preserve, celebrate and interpret
heritage assets along the Canal.

Environmental Health
Introduce more shade and
tree canopy.



Approach to Transformation

In the future, small but impactful improvements (reorganized parking, a shaded viewing terrace, and interpretive and wayfinding signage) will help to unlock the potential of this area to better tell the Canal's origin story.

Brian D. O'Malley

10561 E. Arrowhead Lane

Parker, CO 80138-6803

Douglas County Parks Advisory Board

Douglas County Parks, Trails, & Building Grounds

9651 S. Quebec Street

Highlands Ranch, CO 80130

To the Douglas County Parks Advisory Board:

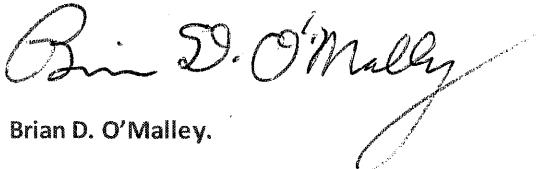
My name is Brian O'Malley and I am a 10-year Douglas County volunteer. I am writing to you regarding an exciting project pertaining to the Highline Canal and the Waterton Road Trailhead. The Highline Canal offers a rich history with Douglas County, starting with the canal's inception as an agriculture ditch in the 1880s to today's use as a 8.6-mile-long recreational amenity through our County. I have been a 6-year volunteer with the Highline Canal Conservancy, presently serving as a Conservation Corp Leader, as well as a citizen volunteer on the Highline Canal Origin Trailhead Committee.

The Origin Trailhead concept involves improvements of the Waterton Canyon Trailhead and connecting trail including handicap accessibility as well as highlighting the rich history of the canal. Both accessibility and historic preservation have been priorities of our Douglas County Commissioners and our citizen led advisory boards and committees.

The Origin concept will involve parking lot improvements, accessibility to the canal trail, historical interpretive signs, and destination features. Douglas County has been generous in matching funds to advance the design process. Now the time is upon us to proceed with the implementation and construction of the Origin Trailhead. With the accessibility and historical aspects of the Origin Trailhead, the trailhead will become a destination for Douglas County citizens as well as visitors from the Greater Denver Metro area and beyond. This destination will enhance the economic development of Roxborough commercial district and provide more incentive to live and work in the Sterling Ranch community.

Thank you for your past support and your time and consideration of this exciting development and enhancement of the Highline Canal in Douglas County.

Sincerely,


Brian D. O'Malley

Evan D. Ela
10500 Wildlife Way
Littleton, Colorado 80125

February 20, 2024

Dear Members of the Douglas County Parks Advisory Board,

I am writing to express my support for the Origin Trailhead project as proposed by the High Line Canal Conservancy. As a Board Member of the Conservancy, a member of the project community panel, a Douglas County resident, and a long-time user of the High Line Canal, I am excited to see this project moving forward. The Origin Trailhead will be the “front door” of the 71-mile High Line Canal corridor. There are plans for the improvements all along the 71-mile corridor and the Origin Trailhead presents a unique opportunity to tell the story of the historical operations of the Canal and its importance to farmers and ranchers in Douglas County. The Origin Trailhead will also present an opportunity to explain the importance of irrigated agriculture was for the economic growth and development of the Front Range and the western United States. Several interpretive exhibits are planned to tell these stories to all ages of visitors.

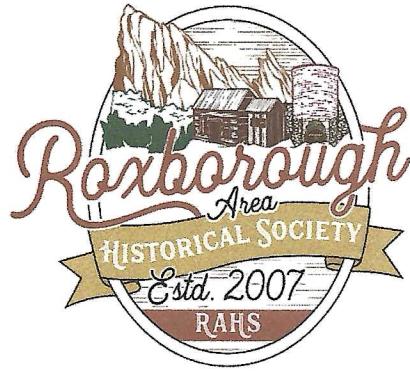
In addition to the interpretive information, the Origin Trailhead project will include modifications to the parking lot, a restroom, and improved access to the canal trail that will accommodate users of all abilities—by foot, bike, horse, and all other forms of mobility. The Conservancy and the design team have incorporated the comments received through local Douglas County community feedback to include the restroom, and to style shade structures and interpretive signage.

The High Line Canal is a place for all who value healthy living and enjoyment of Colorado’s beautiful outdoors. I support the on-going efforts of the Conservancy and their partners to preserve, protect, and enhance the historical, environmental, and ongoing recreational benefits the Canal corridor can provide—linking several counties and communities through a significant portion of the greater metropolitan region. I ask that you support the High Line Canal Conservancy’s application for funding through Douglas County.

Thank you,



Evan D. Ela
303-915-0227



February 22, 2024

Dear Members of the Douglas County Parks Advisory Board,

The Roxborough Area Historical Society (RAHS) urges your support of the High Line Canal Conservancy's application for the Origin Trailhead project. This area was identified as a critical location for improvements for many years in the ongoing planning efforts completed by the Conservancy, its partners, and the community. Given the proximity of the existing trailhead to Waterton Canyon, Platte Canyon Reservoir, Roxborough State Park, and Chatfield State Park and the views to the plains and Denver skyline and given the continued growth of the area near the trailhead, this is the perfect location to tell the story of the Canal's role in Colorado and Roxborough-area history.

Members of the RAHS have participated in a number of community meetings and fully support the improvements proposed for this project. We know that our membership and the members of our board look forward to the parking lot improvements, access to the trail, and new restroom at the trailhead. The addition of shade and educational signage will be very welcome by regular trail users and will also surely bring new trail users and improve the experience for Douglas County residents.

Thank you for considering funding for this important community project.

Sincerely,

A handwritten signature in blue ink that reads "Mike Thomas".

Mike Thomas
President, Roxborough Area Historical Society

Dear Members of the Douglas County Parks Advisory Board,

I am writing this letter as a retired employee with 35 years working for the Denver Water Board. I spent my entire career working on the Highline Canal. When I started there was no recreation on the canal. The first recreation started at Havana St., by Denver Parks. Since then other recreation districts have made improvements such as surfacing the trail, adding park benches, and picnic tables etc. Improvements have also included planting 1000 trees in one day. The canal is the largest park in the metro area, providing recreation opportunities for local residents throughout the 71 miles.

Please support the HLC conservancy for the Origin Trailhead project and maintain its history. I support this effort to preserve and enhance the canal for futures generations.

Thank you,

Tom Mulligan

A handwritten signature in black ink, appearing to read "Tom Mulligan".

| 2024 - External Historic Resources Funding Requests | | | Project Name: Highline Canal Conservancy Project Origin: BOCC, Advisory Board, Public, Other Municipalities Requested Amount: | |
|---|---|---|---|--------------------|
| Criteria and Scoring | | | | |
| Total Points | Criteria | Points | Score | Comments |
| 10 | Historic Significance | 0 = No discernible historic significance 5 = Potential landmark site with role in County historic narrative 9 = Landmarked or in historic register, major role in County historic narrative 10 = Landmarked and in historic register, major role in County historic narrative sites or contributing value to Conservation Easement | | |
| 9 | Disrepair/Urgency | 0 = No urgent need to act to preserve 5 = Risk of degradation but urgent needs have been addressed 9 = Virtually certain to experience major damage/collapse within next 12 months | | |
| 8 | Outside Funding Opportunities | 0 = No opportunities 5 = One outside funding opportunity identified 8 = Multiple outside funding opportunities identified | | |
| 7 | Public Access Benefits | 0 = No opportunities 5 = Opportunities for regular guided public access 7 = Opportunities for daily public access | | |
| 6 | Partnership with Historical Societies or External Organizations | 0 = No partnerships 2 = Working closely with 1 external organization 6 = Working closely with 3+ external organizations | | |
| 5 | Collaboration with other Department | 0 = No collaboration opportunities 4 = Synergy with Open Space or Parks for joint project 5 = Synergy with Open Space and Parks for joint project, BCC level PR | | |
| 4 | Shovel/Trowel Ready | 0 = 9+ months of up front work needed to get started 2 = 6-9 months of up front work needed to get started 3 = 1-6 months of up front work needed to get started 4 = Project can start immediately | | |
| 3 | Can it wait? | 0 = Opportunity can wait 12 months 2 = Opportunity to act/obtain partnership funds will lessen within next 12 months 3 = Opportunity to act/obtain partnership funds will close within next 12 months | | |
| 2 | District Balance | 0 = District has larger than average share of HP projects/dollars 1 = District has average quantity of HP projects/dollars 2 = District is underrepresented with HP projects/dollars | | |
| | | | | Total Score |

| | | |
|---|-----------------|--|
| 2024 - Historic Resources Requests External Criteria and Scoring | | Project Name: Highline Canal Conservancy Project Origin: BOCC, Advisory Board, Public, Other Municipalities Requested Amount: |
| Page 2 | | |
| Project Score | Comments | |
| | | |