

CITY OF HIGHLAND SPECIAL MEETING OF THE COMMUNITY TRAILS COMMITTEE AGENDA

SPECIAL MEETING

December 8, 2022

6:00 p.m.

City Hall

Donahue Council Chambers

27215 Base Line

Highland, California

MEMBERS

Robert La Chausse, Chair
Erwin Fogerson, Vice Chair
Richard Bowman, Member
Michael McMillan, Member
Brent Merideth, Member

STAFF

Lawrence A. Mainez, Community Development Director
Kim Stater, Assistant Community Development Director
Angela Tafolla, Assistant Planner
Camille Goritz, Administrative Assistant III

MISSION STATEMENT

Highland is dedicated to the betterment of the individual, the family, the neighborhood and the community. The City Council and the staff of Highland are dedicated to providing the quality of public facilities and services that its citizens are willing to fund and will do so as efficiently as possible.

Visit the City's Website at: www.cityofhighland.org

CITY OF HIGHLAND • 27215 BASE LINE • HIGHLAND, CALIFORNIA 92346 • (909) 864-6861 ☎ • (909) 862-3180 📠

In compliance with the Americans with Disabilities Act (ADA), if you need special assistance, please contact the City Clerk's office at (909) 864-6861, ext. 226, at least 72 hours prior to the meeting for any requests for reasonable accommodation to include interpreters.

Pursuant to Government Code Section 54957.5, any disclosable public records related to an open session item on a regular meeting agenda and distributed by the City of Highland to all or a majority of the Planning Commission, less than 72 hours prior to that meeting, are available for public inspection at Highland City Hall, 27215 Base Line, Highland, CA 92346, during normal business hours.

Submission of Public Comments: For those wishing to make public comments by email, please submit your comments by email to be read aloud at the meeting. Email comments must be submitted by 5:00 p.m. on December 8, 2022 to publiccomment@cityofhighland.org. If you are submitting a public comment pertaining to an item on the December 8, 2022 agenda, please identify the agenda item number in the subject line.

Members of the public will be permitted to make public comments in person.

**COMMUNITY TRAILS COMMITTEE
SPECIAL MEETING AGENDA
December 8, 2022 - 6:00 P.M.**

CALL TO ORDER

Pledge of Allegiance

COMMUNITY INPUT (ITEMS NOT ON THE AGENDA)

To address the Community Trails Committee please complete a speaker form located at the entrance and give it to the Administrative Assistant prior to the beginning of the meeting. Your name will be called when it is your turn to speak. Individual speakers are limited to three minutes each. Comments received via email by December 8, 2022, 5:00 p.m., will be read into the record, provided that the reading shall not exceed three (3) minutes.

CONSENT CALENDAR

1. Minutes from August 11, 2022 Special Meeting.

RECOMMENDATION: That the Community Trails Committee approve the minutes, as submitted.

BUSINESS ITEMS

2. Update on the Highland/Redlands Regional Connector Project (bikeway/trail along Orange Street between City of Highland and City of Redlands)

RECOMMENDATION: Staff recommends the Community Trails Committee receive and file Staff's update on the Highland/Redlands Regional Connector Project and provide comments as appropriate.

3. Update on the City Creek / Alabama Street Bikeways Project

RECOMMENDATION: Staff recommends the Community Trails Committee receive and file Staff's update on the City Creek / Alabama Street Bikeways Project.

4. Update on the Recreational Trails Program Grant (RTP)

RECOMMENDATION: Staff recommends the Community Trails Committee (CTC) receive and file Staff's presentation on the RTP Grant.

ANNOUNCEMENTS

ADJOURN

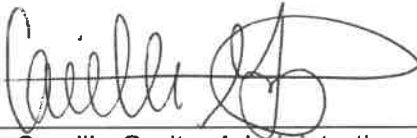
I, Camille Goritz, Administrative Assistant III of the City of Highland, California, certify that I caused to be posted this agenda on or before the 1st of December 2022 by 5:30 p.m. on our website at www.cityofhighland.org and in the following designated areas:

Highland Branch Library
7863 Central Avenue

Fire Station No. 1
26974 Base Line

City Hall
27215 Base Line

Date: December 1, 2022



Camille Goritz, Administrative Assistant III



STAFF REPORT

TO THE COMMUNITY TRAILS COMMITTEE

DATE: December 8, 2022

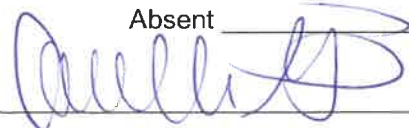
FROM: Lawrence Mainez, Community Development Director

PREPARED BY: Camille Goritz, Administrative Assistant III 

SUBJECT: Minutes from the August 11, 2022 Community Trails Committee Special Meeting.

RECOMMENDATION: Staff recommends the Community Trails Committee approve the Minutes as submitted.

PUBLIC NOTICE: The agenda for this item was posted at the three locations per Resolution No. 2011-047 and on the City's website.

Approved _____	Motion _____	Second _____	Agenda Item No. <u>1</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
 Recording Secretary		 Community Development Director	

**COMMUNITY TRAILS COMMITTEE
SPECIAL MEETING MINUTES
August 11, 2022**

CALL TO ORDER

The Special meeting of the Community Trails Committee of the City of Highland was called to order at 6:00 p.m. by Chair La Chausse at the Donahue Council Chambers, 27215 Base Line, Highland, California.

Present:	Chair	Robert LaChausse
	Vice Chair	Erwin Fogerson
	Member	Richard Bowman
	Member	Brent Merideth

Absent:	Member	Michael McMillan
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Staff Present: Lawrence Mainez, Community Development Director
Carlos Zamano, City Engineer
Jim Richardson, Public Works Manager
Angela Tafolla, Assistant Planner
Camille Goritz, Administrative Assistant III

Pledge of Allegiance led by Chair La Chausse.

COMMUNITY INPUT (ITEMS NOT ON THE AGENDA)

CONSENT CALENDAR

1. Minutes from the June 9, 2022 Special Meeting.

A MOTION was made by Member Merideth, seconded by Member Bowman, to approve the minutes as submitted. Motion carried, 4-0-1, with Member McMillan being absent.

BUSINESS ITEMS

2. Tres Lagos Property – San Bernardino Valley Municipal Water District Board of Directors Workshop update.

Community Development Director Mainez and Assistant Planner Tafolla presented the staff report.

Member Merideth stated regarding the future San Bernardino Valley Municipal Water District Board (SBVMWD) Master Plan, the Santa Ana River Trail drops off right by the property and is supposed to continue onto the Santa Ana River, I'd like to make sure that if I am unable to attend the meeting, I'd certainly hope that's something that they're considering.

Community Development Director Mainez stated yes it was discussed, we had a conversation with staff and there will be that connection eventually. SBVMWD recognizes our historic bridge as a staging area and as a starting point for some of those trails.

Brent Merideth stated I'm also talking about the northeastern part of the property. There's a walking path, it is an established route, I want to make sure it doesn't get covered in a pool of water or something to that effect.

Community Development Director Mainez stated ok, we will forward comments to SBVMWD.

Chair LaChausse asked is there history in California where they've taken land that was used for mitigation and turned it into a trail?

Community Development Director Mainez stated yes, there is thousands of cases where governments use public funds to build trails and parks. There probably hundreds of cases where government has bought land for environmental mitigation purposes, this is not new, however we will bring in more details in the future.

Chair LaChausse asked based on your experience, what are the common barriers or challenges that would confront the city and the trail system?

Community Development Director Mainez stated that's inherent. There's a risk of injury, erosion, and potential for endangered species, whether it's plants or animals, but mostly the environmental concerns. Maintenance is also huge concern and ensuring people don't litter, picking up after animals, and do not introduce invasive species that could grow and harm native vegetation.

Community Trails Committee receives and files Staff presentation.

3. Trails Masterplan Update and Maintenance Overview.

Assistant Planner Tafolla presented the staff report.

Community Development Director Mainez stated Margaret Wright was a member of the original Trails Committee that was established by our City Council after right after we incorporated. There were tons of orange groves, maintenance roads and a lot of equestrian users in our city. Browning Road was almost a hub of where a lot of the horse's owners lived and so Margaret had this idea to implement a trail system. There's this gap still on Browning Road that we haven't acquired that right of way to put a trail in. I don't think there's any curb and gutter on that side of Browning Rd.

City Engineer Zamano stated, so there is gaps of curb and gutter in this area on primarily on the westside. On the eastside we don't have curb and gutter throughout. In fact, the roadway narrows, so it's not to the ultimate width either so the challenge is we don't have the right of way. We don't prohibit parking, when people park on the eastside of the street, it doesn't narrow it when they're parked on both sides, only one car can go through at a time, so there's really no opportunity to go in and carve out an area that would allow people to use part of the paved area.

Assistant Planner Tafolla stated moving onto the Shelton Trail at Highland Avenue and Church Street Looking at our Master Planned Trail Map, it looks like it abruptly ends at Highland Ave, but what it is branching off into the East Highlands Ranch Homeowners Association which they have multiple private trails throughout their property. I would like to go over the Emmerton Lane trail update.

Brent Merideth stated I'm also talking about the northeastern part of the property. There's a walking path, it is an established route, I want to make sure it doesn't get covered in a pool of water or something to that effect.

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don't introduce *and remove from native vegetation*

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Public Works Manager Richardson stated we have a project that is in the process of design right now, it is on the West side of Emmerton Lane, it is 1,000 feet. That is a pretty steep south facing trail that we have erosion problems that we have been dealing with for years. We got approval to come up with a design to better deal with the water issues. The East Highland Ranch is cooperating with us to allow us to cut through the landscape about every 50 feet and put a concrete water bar in, similar to what you see on Base Line.

Chair LaChausse asked are those effective in mitigating the flooding that occurs there?

Public Works Manager Richardson stated we anticipate the construction of the concrete water bars that we're planning right now, it'll take the water all the way out to the gutter line and that will help us to resolve the major erosion.

Assistant Planner Tafolla stated next, we will talk about the trail between Water Street and Base Line, there will be several private property easements would have to be acquired.

Member Merideth asked what path would require the least number of dedicated easements?

Assistant Planner Tafolla stated once this property develops, that's when we would require the easement to be dedicated.

Community Development Director Mainez stated if you look at this exhibit (shown on PowerPoint) showing one large parcel at the corner of Base Line and Weaver Street, in the past there was an interest to subdivide that property with two or more parcels, and the city would condition that developer to somehow dedicate a trail.

Assistant Planner Tafolla stated the missing trail link between Plunge Creek West Levee Trail and Northfork Trail, which this one is a little bit more complex, related to the CEQA process to connect over Plunge Creek. The cost will be in the millions, and we would have to coordinate with East Valley Water District and the San Bernardino County Flood Control District, there is not an estimated time that could actually take place.

Community Development Director Mainez stated there's a little crossing where the Canyon narrows coming through the city's Natural Parkland and there's a pipe that's called the North Fork pipeline and we were envisioning in the General Plan that would be a pedestrian bridge crossing. Our city would coordinate with East Valley Water District, because right now people are crossing in the river. It is a sensitive habitat and that will connect all the way to the Highland Historic Iron Bridge through the housing development Mediterra.

Member Fogerson asked is it possible to reroute that, so you come down the access road or Flood Control and cross on Greenspot Road?

Community Development Director Mainez stated yes.

Member Merideth pointed to the arrow on the PowerPoint, and stated it is not open anymore. It was at one time, but now it's completely closed off to the west entrance of the trail. Is the temporary?

Community Development Director Mainez stated housing Development Director Mainez stated Toll Brothers were required to build the trail to a certain point and we need to work with Flood Control again to have that gate open again. It seems to be closed temporarily.

Assistant Planner Tafolla stated now we will go over area 6 the Plan Trail for Plan B. We currently are in process with the City of Redlands, San Bernardino Valley Water Conservation District for an MOU, and we are about six months out from completing the MOU process. Right now, there is existing access roads which will become our trails.

Chair LaChausse asked what does Plan B stand for?

Community Development Director Mainez stated Santa Ana River Water Wash Habitat Conservation Plan and Land Use Plan which is everything south of Greenspot Road. We are not building any new trails and through Conditional Use permits with both two mining operators, Cemex and Robinsons. Both agencies have Conditional Use Permit entitlements for those agencies, and we put in our condition that any trails proposed in that wash plan would have to be funded by the mining operators. We will partner with our Trails committee for signage and programs and events.

Assistant Planner Tafolla stated next is the the trail link between Northfork Trail and Alder Creek Trail. Currently there is no access agreement between San Bernardino County Flood Control District along our maintenance area in Highland. We would need to get an access agreement and install some walkthroughs, instead of a gate to access that area. Next, we will discuss Alder Creek Trail and 1N 16 Fire Access Road through Mediterra. I'm not sure if anyone has seen this. This is in the Mediterra Specific Plan. This will be the ultimate setup of bike lanes, the entrances, the trails, and access.

Community Development Director Mainez stated eventually the trail along the north part of Mediterra will connect to Oak Creek Park to Plunge Creek. That is the vision of the General Plan to connect all these trails along the Foothill. This is under construction; it is going through phases.

Assistant Tafolla next, we will go over the Historic Iron Bridge, we want to remind everyone that this will be the future staging connection area for the Tray Logos and Plan B trails area.

Chair LaChausse asked are we going to go over it with a crosswalk with lights or are we going to go underneath it?

Community Development Director Mainez stated the idea is to get pedestrians to cross the street, not under the bridge, because on both sides of that bridge there's an access road to Flood Control and in our bridge.

Chair LaChausse asked how are we going to get people safely from the southwest side to the northeast side?

Public Works Manager Richardson stated I'm not aware of any plan for crossing there. I know we're talking about the width of that bridge, and right now to divide that bridge and block off the east side to create a standard width roadway at Greenspot Road.

Assistant Planner Tafolla stated next, we will go over gap on Streater Trail, this is requiring additional private property easements to connect it and a significant amount of Capital Improvement Funds.

City Engineer Zamano stated there is a project that we started to do, but unfortunately, we weren't able to finish it because of funding and is an open channel through there. What we have a design for today is to underground that, put a pipe underground and then use the top of the pipe as the trail to make that connection. This is about \$1,000,000 project to construct.

Assistant Planner Tafolla stated that concludes the discussion about the missing links we did have letter B for trail maintenance protocol.

Member Merideth stated regarding Browning Trail north of Browning Street, it seems like it's a goat head weed farm. I am wondering, have you ever come across anything that?

Public Works Manager Richardson stated no, not really. As far as the vegetation, I can definitely look into it. That's one of the things we do maintain is weed growth.

Chair LaChausse asked are there any other maintenance issues?

Public Works Manager Richardson stated our maintenance pretty much is limited to weed control, trash pickup and erosion type issues. We respond to calls if we receive calls with concerns.

Member Merideth stated Cram Elementary School, every time it rains the dirt goes onto the sidewalk where the kids are running downhill to school, and it becomes marbles after every rain fall. Is there any way that can be solved, but it's such a short distance that it wouldn't be a costly repair.

Public Works Manager Richardson stated we sandbag some areas of that trail and try to minimize the washouts, but we do especially down at the corner at Water Street it washes out. We can look at it and see if there are options.

Community Trails Committee (CTC) received and filed Staff's presentation on the implementation of the City's Trail Master Plan and Maintenance.

4. Update on the Recreational Trails Program Grant (RTP)

Assistant Planner Tafolla presented the staff report.

Member Merideth asked when do we expect that design plan might come before this committee?

Community Development Director Mainez stated we're almost at that point to present something to you, however, I'm really cautious about bringing anything to this committee until we have a contract from the State.

City Engineer Zamano stated we would be able to finish the design at the end of this calendar year and or at least have 95% level. And at that point, by then we should have that grant agreement done and then bring this back to the committee.

Community Trails Committee (CTC) received and filed Staff's presentation on the RTP Grant.

ANNOUNCEMENTS

None.

ADJOURN

There being no further business, Chair La Chausse declared the meeting adjourned at 7:46 P.M.

Submitted by:

Approved by:

Camille Goritz,
Administrative Assistant III

Robert La Chausse,
Community Trails Committee Chair



STAFF REPORT

TO THE COMMUNITY TRAILS COMMITTEE

DATE: December 8, 2022

FROM: Lawrence A. Mainez, Community Development Director

PREPARED BY: Angela Tafolla, Assistant Planner

SUBJECT: Update on the Highland/Redlands Regional Connector Project (bikeway/trail along Orange Street between City of Highland and City of Redlands)

RECOMMENDATION: Staff recommends the Community Trails Committee receive and file Staff's update on the Highland/Redlands Regional Connector Project and provide comments as appropriate.

PUBLIC NOTICE: As required by City Council Resolution, notice of the CTC meeting was posted at the City's three (3) designated posting locations within the City. In addition, the agenda was posted on the City's website. No other notice is required.

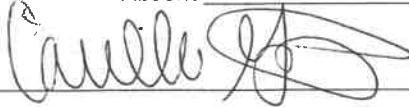
BACKGROUND/UPDATE: As the Community Trail Committee is aware, the City of Highland and City of Redlands have collaborated to construct a new 4.7 mile long bikeway/trail (generally along Orange Street) from Arroyo Verde Elementary School in Highland to Citrus Valley High School in Redlands.

During the process of securing an Incidental Take Permit from the California Department of Fish and Wildlife (CDFW), an estimated cost \$6.4 million was identified in mitigation measures. The estimated construction cost is \$4.45 million. The extremely high environmental mitigation costs were not budgeted by City of Redlands or Highland.

Efforts were made with CDFW to identify reasonable mitigation measures that satisfy all parties, but no agreement could be reached.

Design and environmental clearance from CEQA and NEPA have been completed. The City of Highland will seek other grant fund opportunities to complete this project in the near future.

Staff will keep the Trails Committee updated when additional progress is made towards funding.

Approved _____	Motion _____	Second _____	Agenda Item No. <u>2</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
 Recording Secretary		 Community Development Director	



STAFF REPORT

TO THE COMMUNITY TRAILS COMMITTEE

DATE: December 8, 2022

FROM: Lawrence A. Mainez, Community Development Director

PREPARED BY: Angela Tafolla, Assistant Planner

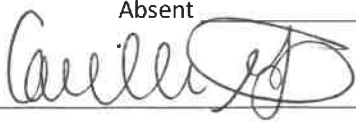
SUBJECT: Update on the City Creek / Alabama Street Bikeways Project

RECOMMENDATION: Staff recommends the Community Trails Committee receive and file Staff's update on the City Creek / Alabama Street Bikeways Project.

PUBLIC NOTICE: As required by City Council Resolution, notice of the CTC meeting was posted at the City's three (3) designated posting locations within the City. In addition, the agenda was posted on the City's website. No other notice is required.

BACKGROUND: The City of Highland City Creek/Alabama Street Bikeways project would build 1.7 miles of new Class I bikeway on the west City Creek levee between Base Line and Alabama Street and 0.6 miles of new Class I/Class II bikeways along Alabama Street between 3rd Street and the south limits of the cities of Highland and San Bernardino (see Attachment 1).

The Class I bikeway located along the west City Creek levee would consist of a 14-foot-wide Portland cement concrete (PCC) trail with two five-foot wide bicycle lanes, one four-foot-wide pedestrian lane, and two-foot graded shoulders on each side. The Class I bikeway would connect to the existing Boulder Avenue bridge undercrossing and a new State Route 210 (SR-210) undercrossing would be built as part of the Proposed Project. The proposed Class I bikeway would connect to existing Class II bikeways along 5th Street/Greenspot Road. Trail users would use the existing crosswalk at the intersection of 5th Street and Church Street to travel to the south side of 5th Street and connect to the Class I bikeway on the south side of 5th Street/Greenspot Road. The Class I bikeway would also include a crossing at its intersection with the existing Robertson's Ready Mix driveway located approximately 500 feet northeast of City Creek. A rest area would also be included along the trail. Potential locations for the rest area would be along the trail near Base Line Street or near Boulder Avenue.

Approved _____	Motion _____	Second _____	Agenda Item No. <u>3</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
			
Recording Secretary		Community Development Director	

On the northbound side (east side) of Alabama Street, a Class I bikeway would be provided from the southern limits of the Proposed Project north to approximately the City Creek levee. From this point north to 3rd Street the Class I bikeway would become a Class II bikeway. The northbound Class I bikeway in this area would include a two-foot-wide barrier separating the bikeway from vehicle travel lanes, a four-foot-wide pedestrian lane, two four-foot-wide bicycle lanes, and a two-foot-wide buffer. The northbound Class II bikeway would consist of a six-foot wide asphalt concrete (ac) bicycle lane.

On the southbound side (west side) of Alabama Street, a Class II bikeway would be provided from the intersection of Alabama Street and 3rd Street to the southern limits of the Proposed Project. The southbound Class II bikeway on the west side of Alabama St. would include a bicycle lane that varies from six to eight feet wide. The southern portion of the Class II bikeway would also include a 16-foot-wide buffer separating the bicycle lane from vehicle travel lanes.

The Planning Commission at there November 15, 2022, meeting adopted the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the project.

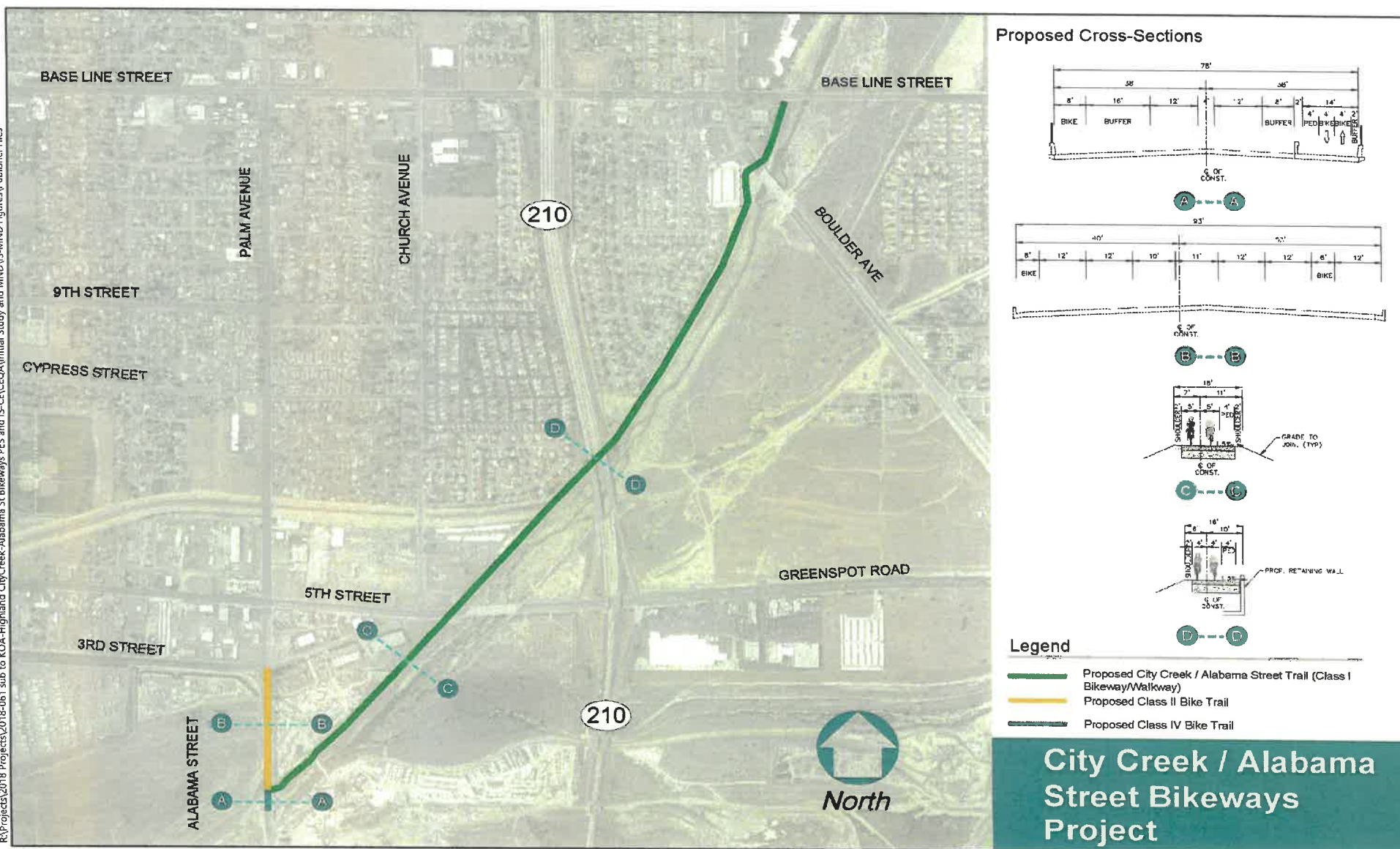
Construction is estimated to begin in late April or May of 2023.

ATTACHMENT 1



Figure 2. Project Location

2018-061 City Creek-Alabama Street Bikeways Project



ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

Map Date: 9/8/2022
Source: KOA Corporation

Figure 3. Proposed Cross-Sections
2018-061 City Creek-Alabama Street Bikeways Project



STAFF REPORT

TO THE COMMUNITY TRAILS COMMITTEE

DATE: December 8, 2022

FROM: Lawrence A. Mainez, Community Development Director

PREPARED BY: Angela Tafolla, Assistant Planner

SUBJECT: Update on the Recreational Trails Program Grant (RTP)

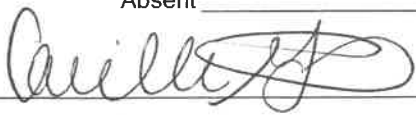
RECOMMENDATION: Staff recommends the Community Trails Committee (CTC) receive and file Staff's presentation on the RTP Grant.

PUBLIC NOTICE: As required by City Council Resolution, notice of the CTC's meeting was posted at the City's three (3) designated posting locations within the City. In addition, the agenda was posted on the City's website. No further notice is required.

BACKGROUND/UPDATE:

Recreational Trails Program:

- On September 25, 2020, a \$1.5 million RTP grant application was selected by the State of California Department of Parks and Recreation for funding by the Department to renovate the 'City's Natural Parkland'.
- On August 17, 2021, the City completed the required Preliminary Environmental Study (PES) and submitted to CALTRANS as required under Item 1 above. CALTRANS is the agency responsible for administering funds from the California Department of Parks and Recreation.
- On May 31, 2021, the proposed project was included in the local Transportation Improvement Plan (TIP). The local agency responsible for implementing the local TIP is the San Bernardino County Transportation Authority (SBCTA).

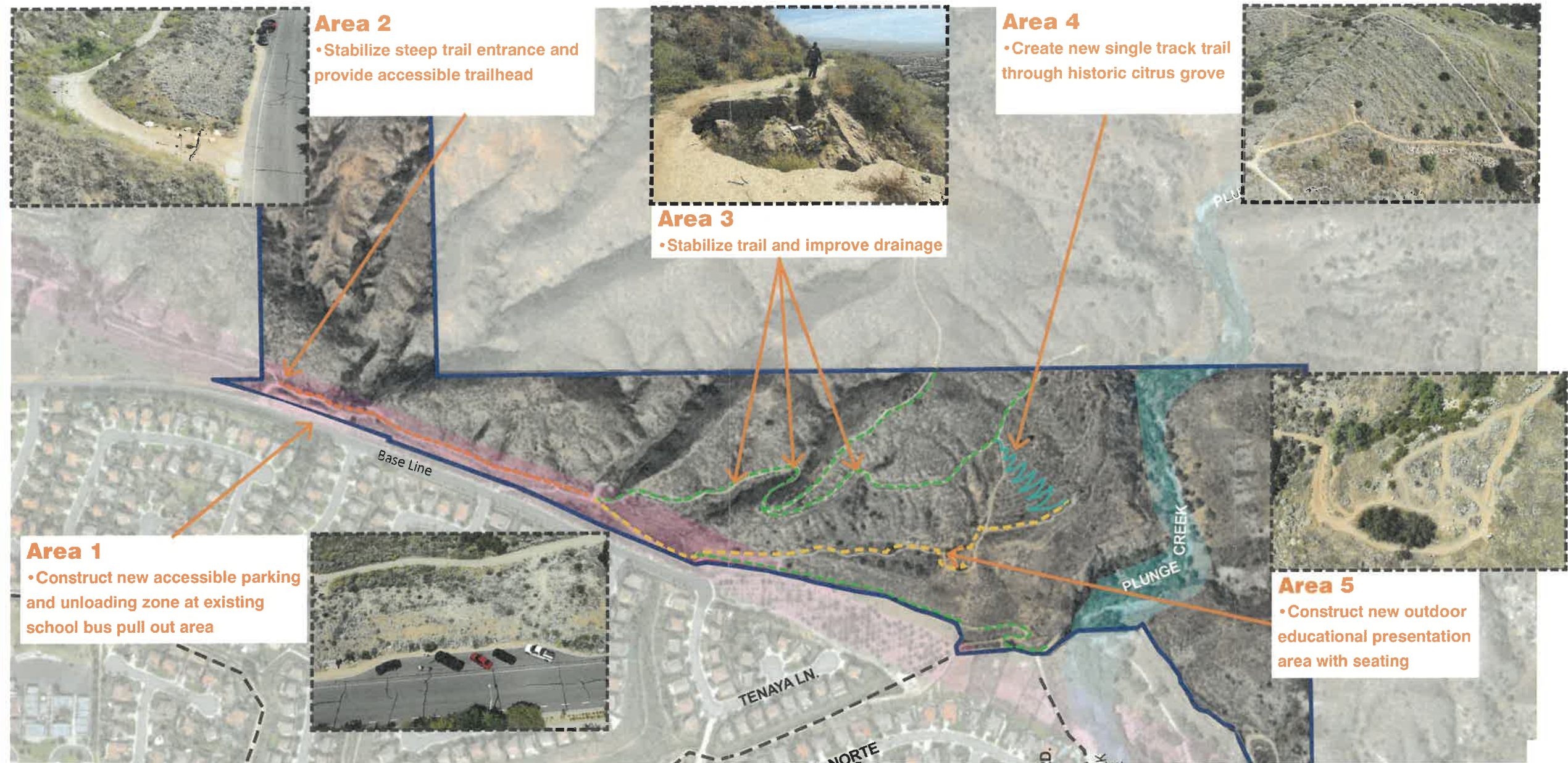
Approved _____	Motion _____	Second _____	Agenda Item No. <u>4</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
			
Recording Secretary		Lawrence A. Mainez, Community Development Director	

- On July 7, 2022, the Preliminary Environmental Study (PES) was signed off by CALTRANS triggering special studies to commence.
- On July 28, 2022, Initial Section 106 Tribal Consultation letters were mailed to four (4) local tribes and AB52 consultation with San Manuel Band of Mission Indians for their review and comments on the project.
- On November 9, 2022, a final document was provided to the Senior Archaeologist completing the cultural resource study. A draft cultural study will be ready for review by mid-December.

Next Steps:

The City's lead project Manager (Community Works Design Group) is continuing to work on related environmental work and design elements. To date the design is 95% complete.

Although there are no design components ready for the CTC to review and comment on, the attached are "draft" cut sheets of the proposed entry improvements, new trail section and the lecture/seating area planned for the project. Most of the grant funding will be for drainage improvement. The CTC will also be asked to assist with new interpretive signage and wayfinding signage in the Natural Parkland and surrounding trails once the grant is awarded by the State.



Overall Site Plan

Priority Design Challenges



Natural Parkland Trail Improvements





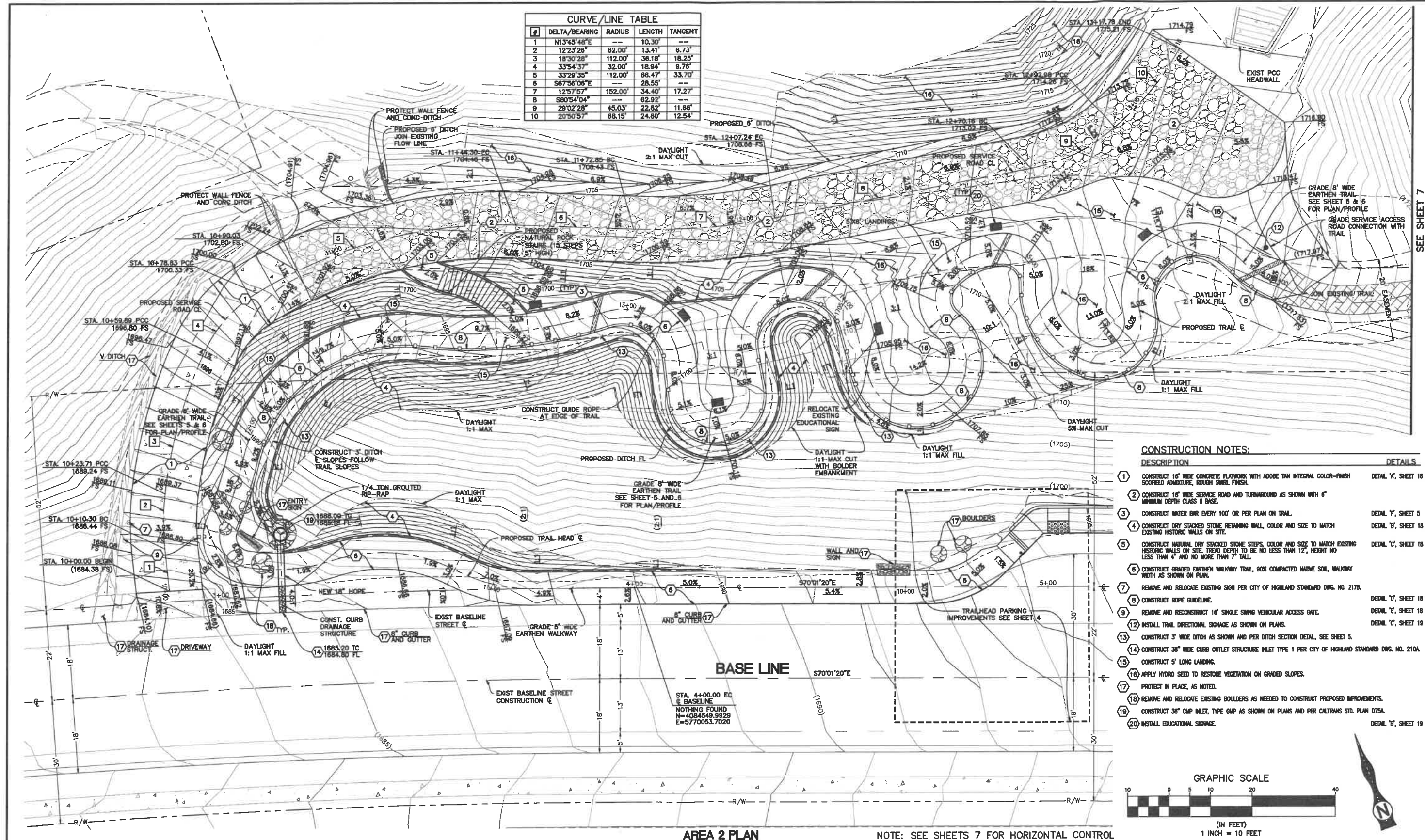
Area 2: Natural Parkland Trailhead

Accessible Trailhead and Improved Trail

Date: June 4, 2021

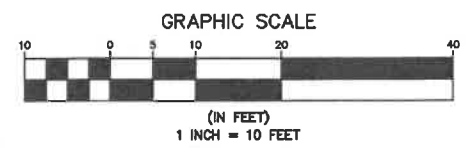
Natural Parkland Trail Improvements





CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	N13°45'48"E	---	10.30'	---
2	12°23'28"	82.00'	13.41'	8.73'
3	18°30'28"	112.00'	38.18'	18.25'
4	33°54'37"	32.00'	18.94'	9.76'
5	33°28'35"	112.00'	88.47'	33.70'
6	S67°56'06"E	---	28.55'	---
7	12°57'57"	152.00'	34.40'	17.27'
8	S80°54'04"	---	82.92'	---
9	29°02'28"	45.03'	22.82'	11.66'
10	20°50'57"	68.15'	24.80'	12.54'

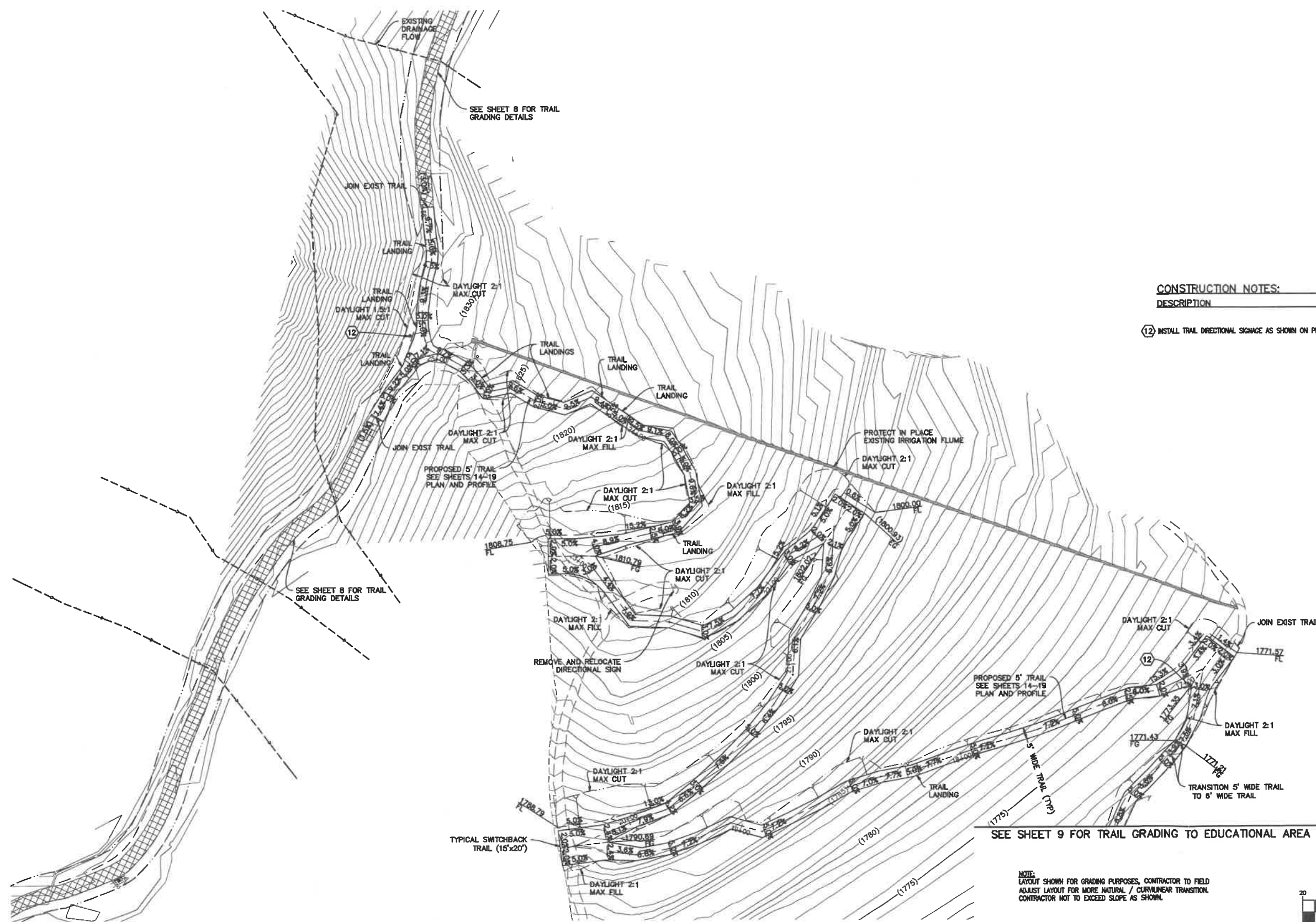
- CONSTRUCTION NOTES:**
- | DESCRIPTION | DETAILS |
|---|----------------------|
| 1. CONSTRUCT 18" WIDE CONCRETE FLATWORK WITH ADORSE TAN INTEGRAL COLOR-FINISH SCORFED ADORNATURE, ROUGH SWIRL FINISH. | DETAIL 'A', SHEET 18 |
| 2. CONSTRUCT 18" WIDE SERVICE ROAD AND TURNAROUND AS SHOWN WITH 6" MINIMUM DEPTH CLASS 1 BASE. | |
| 3. CONSTRUCT WATER BAR EVERY 100' OR PER PLAN ON TRAIL. | DETAIL 'F', SHEET 5 |
| 4. CONSTRUCT DRY STACKED STONE RETAINING WALL, COLOR AND SIZE TO MATCH EXISTING HISTORIC WALLS ON SITE. | DETAIL 'B', SHEET 18 |
| 5. CONSTRUCT NATURAL DRY STACKED STONE STEPS, COLOR AND SIZE TO MATCH EXISTING HISTORIC WALLS ON SITE. TREAD DEPTH TO BE NO LESS THAN 12", HEIGHT NO LESS THAN 4" AND NO MORE THAN 7" TALL. | DETAIL 'C', SHEET 18 |
| 6. CONSTRUCT GRADED EARTHEN WALKWAY TRAIL, 30% COMPACTED NATIVE SOIL, WALKWAY WIDTH AS SHOWN ON PLAN. | |
| 7. REMOVE AND RELOCATE EXISTING SIGN PER CITY OF HIGHLAND STANDARD DWG. NO. 217B. | |
| 8. CONSTRUCT ROPE GUIDELINE. | DETAIL 'D', SHEET 18 |
| 9. REMOVE AND RECONSTRUCT 16" SINGLE SWING VEHICULAR ACCESS GATE. | DETAIL 'E', SHEET 18 |
| 12. INSTALL TRAIL DIRECTIONAL SIGNAGE AS SHOWN ON PLANS. | DETAIL 'G', SHEET 19 |
| 13. CONSTRUCT 3" WIDE DITCH AS SHOWN AND PER DITCH SECTION DETAIL, SEE SHEET 5. | |
| 14. CONSTRUCT 36" WIDE CURB OUTLET STRUCTURE INLET TYPE 1 PER CITY OF HIGHLAND STANDARD DWG. NO. 210A. | |
| 15. CONSTRUCT 5' LONG LANDING. | |
| 16. APPLY HYDRO SEED TO RESTORE VEGETATION ON GRADED SLOPES. | |
| 17. PROTECT IN PLACE, AS NOTED. | |
| 18. REMOVE AND RELOCATE EXISTING BOULDERS AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS. | |
| 19. CONSTRUCT 36" CMP INLET, TYPE GMP AS SHOWN ON PLANS AND PER CALTRANS STD. PLAN 075A. | |
| 20. INSTALL EDUCATIONAL SIGNAGE. | DETAIL 'B', SHEET 19 |



AREA 2 PLAN

NOTE: SEE SHEETS 7 FOR HORIZONTAL CONTROL

DIAL BEFORE YOU DIG TOLL FREE 811 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT	BENCHMARK B.M. No. 12 15 ELEVATION= 1546.84 ADJUSTED (1545.02) DESCRIPTION: NATIONAL GEODETIC SURVEY (NGS) 1988 MONUMENT DESCRIBED BY METRO WATER DISTRICT SOUTHERN CALIFORNIA 1983 EAST HIGHLAND, 2 MILES EAST ALONG GREENSPOT ROAD FROM CHURCH STREET 80 FEET SOUTH OF GREENSPOT ROAD ON TOP OF A RISE SOUTH SIDE OF A SMALL WASH, 144 FEET EAST AND 64 FEET SOUTH OF THE SOUTH END WALL, IN TOP OF A CONCRETE POST FLUSH.	SEAL TERRY M. RENNER REGISTERED PROFESSIONAL ENGINEER No. 69984 Exp. 5-30-24 CIVIL STATE OF CALIFORNIA	PLANS PREPARED UNDER THE SUPERVISION OF: DATE: _____	PLANS PREPARED BY: TKE TERRY M. RENNER RE No. 69984	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>APPR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	APPR.	DATE					CITY OF HIGHLAND RECOMMENDED BY: _____ APPROVED BY: _____ DATE: _____	NATURAL PARKLAND TRAIL IMPROVEMENTS ACCESSIBLE PARKING AND TRAILHEAD ENTRANCE GRADING AREA 2 DRAWING NO. _____ SHEET 3 OF 19
	NO.	DESCRIPTION	APPR.	DATE											
RECOMMENDED BY: _____ APPROVED BY: _____ DATE: _____															

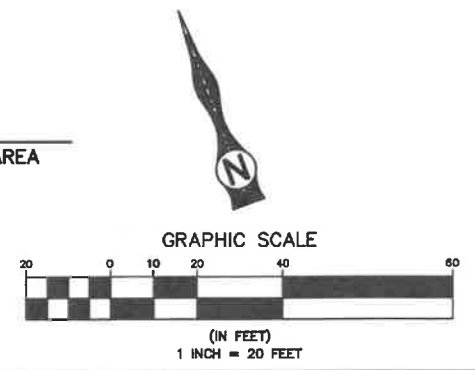


CONSTRUCTION NOTES:	
DESCRIPTION	DETAIL
(12) INSTALL TRAIL DIRECTIONAL SIGNAGE AS SHOWN ON PLANS.	DETAIL 'C', SHEET 19

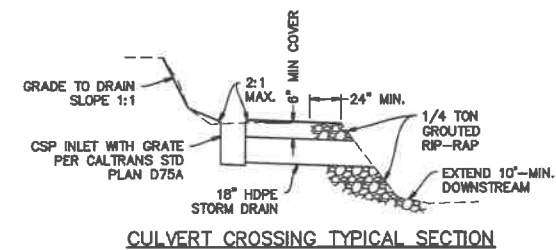
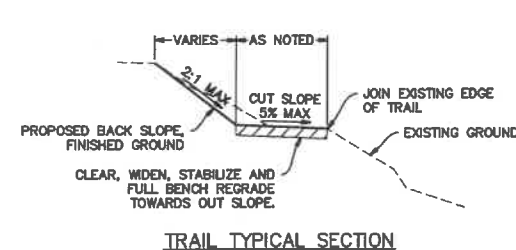
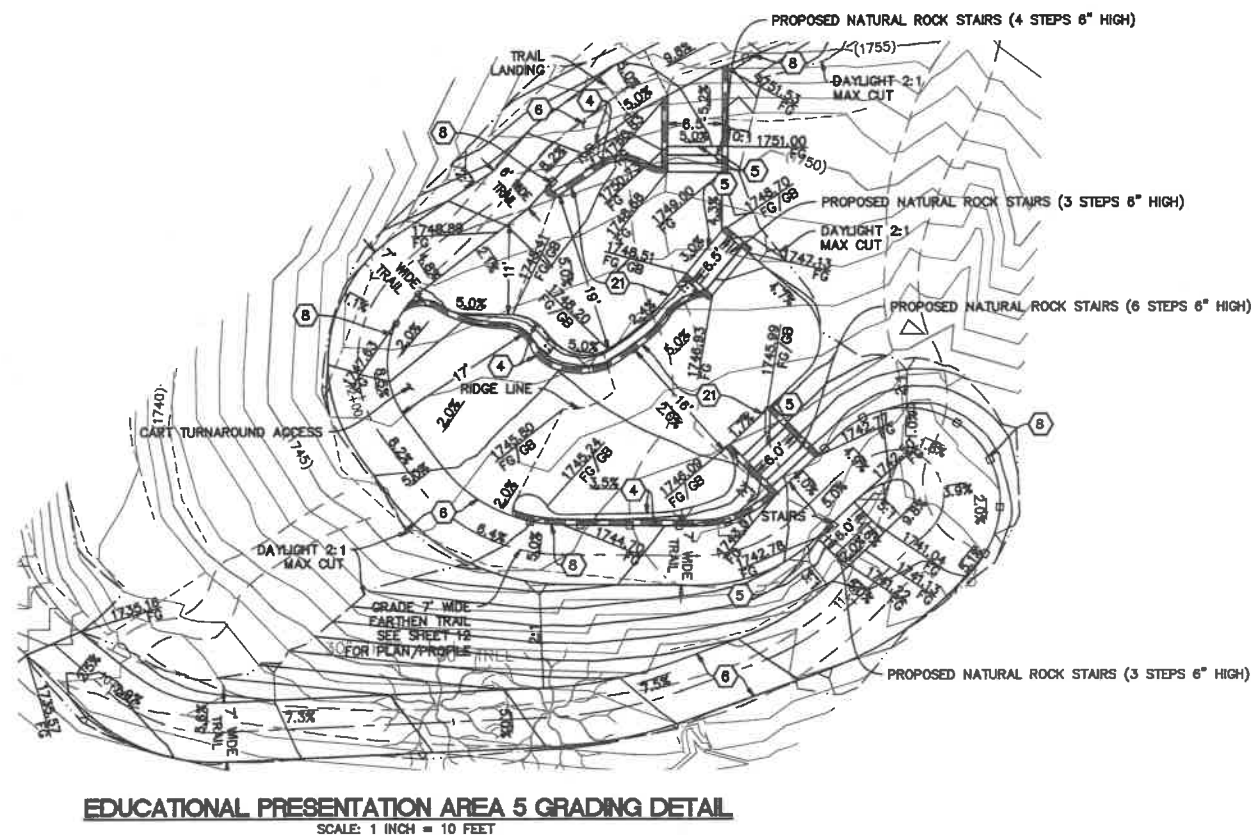
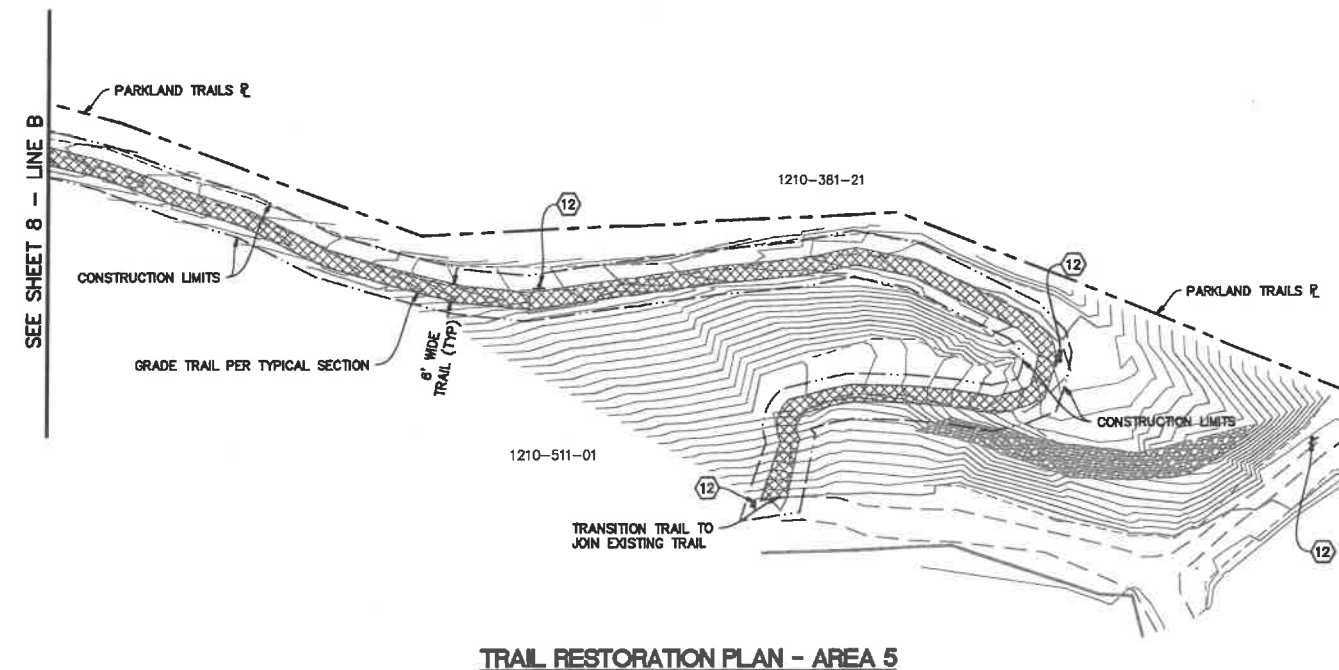
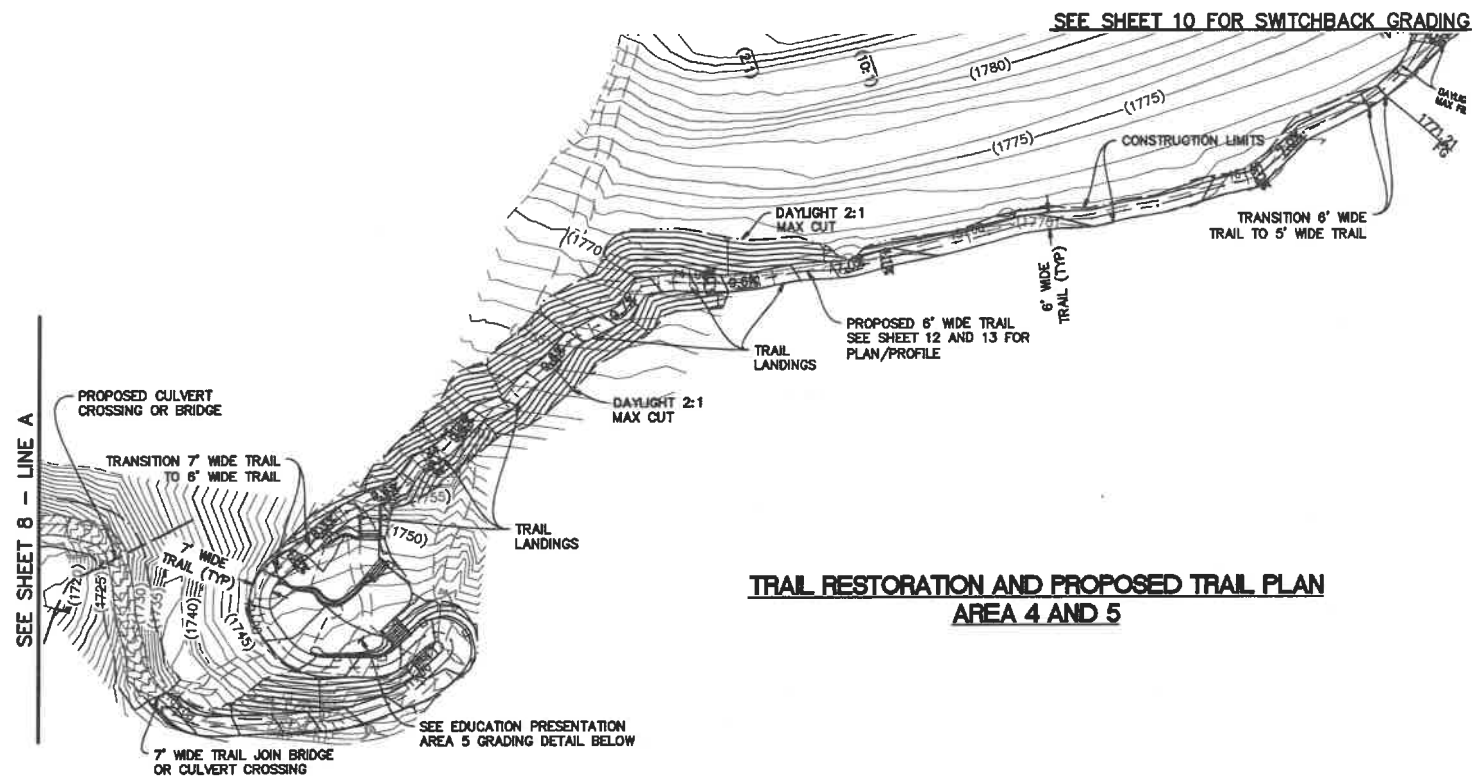
AREA 4 PLAN

SEE SHEET 9 FOR TRAIL GRADING TO EDUCATIONAL AREA

NOTE:
LAYOUT SHOWN FOR GRADING PURPOSES. CONTRACTOR TO FIELD
ADJUST LAYOUT FOR MORE NATURAL / CURVILINEAR TRANSITION.
CONTRACTOR NOT TO EXCEED SLOPE AS SHOWN.



	BENCHMARK B.M. No. 12 15 ELEVATION= 1546.84 ADJUSTED (1545.02) DESCRIPTION: NATIONAL GEODETIC SURVEY (NGS) 1988 MONUMENT DESCRIBED BY METRO WATER DISTRICT SOUTHERN CALIFORNIA 1993 EAST HIGHLAND, 2 MILES EAST ALONG GREENSPOT ROAD FROM CHURCH STREET 80 FEET SOUTH OF GREENSPOT ROAD ON TOP OF A RISE SOUTH SIDE OF A SMALL WASH 144 FEET EAST AND 84 FEET SOUTH OF THE SOUTH END WALL, IN TOP OF A CONCRETE POST FLUSH.		PLANS PREPARED UNDER THE SUPERVISION OF: DATE: _____	PLANS PREPARED BY: TKE ENGINEERING, INC. 2305 CHICAGO AVENUE RIVERSIDE, CA 92507 (951) 680-0440 (951) 680-0490 FAX	REVISIONS <table border="1"> <tr> <th>MARK</th> <th>DESCRIPTION</th> <th>APPR.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	MARK	DESCRIPTION	APPR.	DATE					CITY OF HIGHLAND RECOMMENDED BY: _____ APPROVED BY: _____ CARLOS ZALAZAR, CITY ENGINEER DATE: _____ R.C.E. 60153 EXP. 6-30-24	NATURAL PARKLAND TRAIL IMPROVEMENTS PROPOSED SINGLE TRACK SWITCHBACK TRAIL AREA 4 (HISTORIC CITRUS GROVE) DRAWING NO. _____ SHEET 10 OF 19
	MARK	DESCRIPTION	APPR.	DATE											

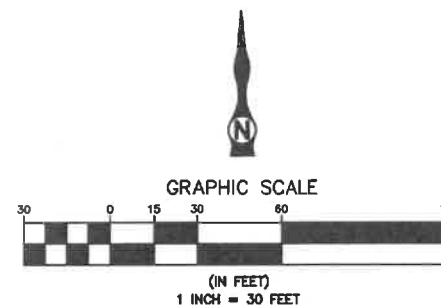


CONSTRUCTION NOTES:

DESCRIPTION	DETAILS
4) CONSTRUCT DRY STACKED STONE RETAINING WALL, COLOR AND SIZE TO MATCH EXISTING HISTORIC WALLS ON SITE.	DETAIL 'B', SHEET 18
5) CONSTRUCT NATURAL DRY STACKED STONE STEPS, COLOR SIZE TO MATCH EXISTING HISTORIC WALLS ON SITE. TREAD DEPTH TO BE NO LESS THAN 12", HEIGHT NO LESS THAN 4" AND NO MORE THAN 7" TALL.	DETAIL 'C', SHEET 18
6) CONSTRUCT GRADED EARTHEN WALKWAY TRAIL, 90% COMPACTED NATIVE SOIL, WALKWAY WIDTH AS SHOWN ON PLAN.	DETAIL 'D', SHEET 18
8) CONSTRUCT ROPE GUIDELINE.	DETAIL 'C', SHEET 19
12) INSTALL TRAIL DIRECTIONAL SIGNAGE AS SHOWN ON PLANS.	DETAIL 'A', SHEET 19
21) CONSTRUCT SITTING AND EDUCATIONAL AREA GRADE AS SHOWN AND COMPACT AT 90% NATIVE SOIL. INSTALL FIXTURES AND SIGNAGE AS REQUIRED.	

LEGEND:

	PROPOSED BRIDGE OR CULVERT CROSSING (PENDING CITY DECISION)
	PROPOSED MINOR CLEARING/GRADING TRAIL RESTORATION
	PROPOSED 6' MINIMUM WIDE TRAIL RESTORATION PER TYPICAL SECTION
	PROPOSED 7' MINIMUM WIDE TRAIL RESTORATION PER TYPICAL SECTION
	EXISTING EDGE OF TRAIL
	PROPOSED EDGE OF TRAIL
	CONSTRUCTION LIMITS/DAYLIGHT
	CONCENTRATED FLOW PATH



BENCHMARK
B.M. No. 12 15 ELEVATION= 1546.84 ADJUSTED (1545.02)
DESCRIPTION: NATIONAL GEODETIC SURVEY (NGS) 1988 MONUMENT DESCRIBED BY METRO WATER DISTRICT SOUTHERN CALIFORNIA 1993 EAST HIGHLAND, 2 MILES EAST ALONG GREENSPOT ROAD FROM CHURCH STREET 80 FEET SOUTH OF GREENSPOT ROAD ON TOP OF A RISE SOUTH SIDE OF A SMALL WASH, 144 FEET EAST AND 64 FEET SOUTH OF THE SOUTH END WALL, IN TOP OF A CONCRETE POST FLUSH.



PLANS PREPARED UNDER THE SUPERVISION OF:

DATE: _____



PLANS PREPARED BY:
TKE
TERRY M. RENNER RE No. 69984
TKE ENGINEERING, INC.
2305 CHICAGO AVENUE
RIVERSIDE, CA 92507
(951) 880-0440
(951) 880-0490 FAX

REVISIONS	MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

RECOMMENDED BY	APPROVED BY
SCOTT RICE R.C.E. 5111 EXP. 12-31-22	CARLOS ZAMANA, CITY ENGINEER R.C.E. 00153 EXP. 6-30-24

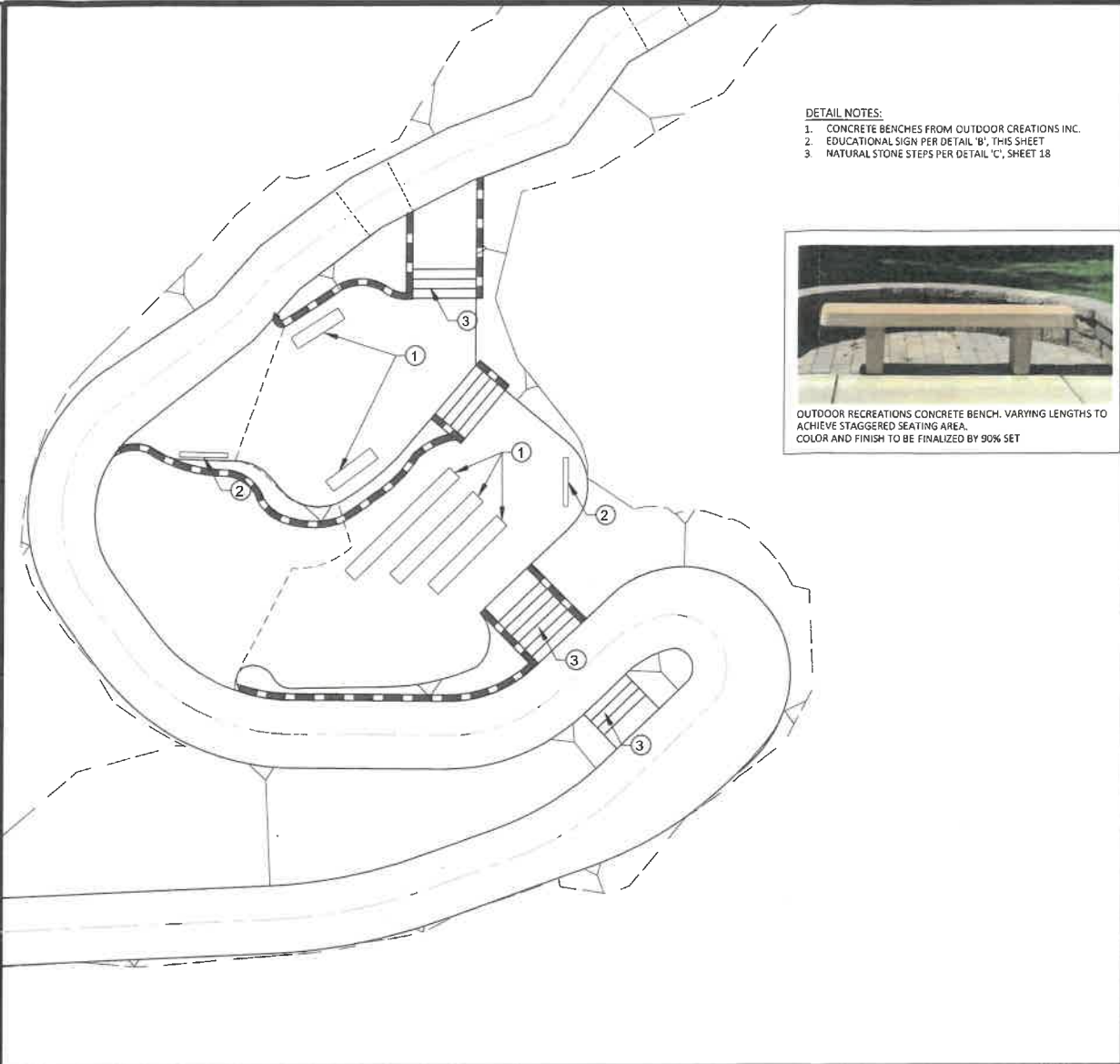
NATURAL PARKLAND TRAIL IMPROVEMENTS

EXISTING TRAIL REGRADING PLAN
AREA 5

DRAWING NO.

SHEET 9 OF 19

Oct 05, 2022 - 3:50pm luke morris
F:\Highland Natural Park Trail\CDs\Construction_recover.dwg



- DETAIL NOTES:
1. CONCRETE BENCHES FROM OUTDOOR CREATIONS INC.
 2. EDUCATIONAL SIGN PER DETAIL 'B', THIS SHEET
 3. NATURAL STONE STEPS PER DETAIL 'C', SHEET 18



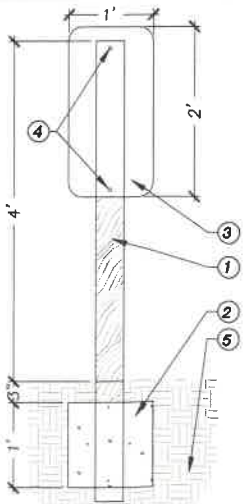
OUTDOOR RECREATIONS CONCRETE BENCH. VARYING LENGTHS TO ACHIEVE STAGGERED SEATING AREA
COLOR AND FINISH TO BE FINALIZED BY 90% SET

A Educational Seating Area

SCALE: 1/8"=1'



- DETAIL NOTES:
- EDUCATIONAL SIGN STYLE AND CONSTRUCTION TO MATCH EXISTING EDUCATIONAL SIGNS AT TRAIL.
 - CONTRACTOR TO COORDINATE WITH CITY REPRESENTATIVE FOR SIGN GRAPHIC CONTENT.
 - CONTRACTOR TO LAYOUT ORIENTATION OF SIGN FOR APPROVAL BY CITY REPRESENTATIVE PRIOR TO INSTALLATION.
 - CONTRACTOR TO ACCOUNT FOR INSTALLATION OF 19 NEW SIGNS. FINAL LOCATIONS TO BE SUPPLIED BY CITY.



- DETAIL NOTES:
1. WOOD 4"x4" POST
 2. 12" X 12" 2500 PSI CONCRETE FOOTING.
 3. INFORMATIONAL STEEL SIGN, BOTH SIDES WHERE APPLICABLE.
 4. 3/8" X 2" ZINC COATED HEX LAG SCREW, (2) PER SIGN.
 5. COMPACTED SUBGRADE PER SOILS REPORT
 6. CONTRACTOR TO COORDINATE WITH CITY REPRESENTATIVE FOR SIGN GRAPHIC CONTENT.

B Educational Sign

SCALE: NTS

C Trail Directional Sign

SCALE: 1"=1'



BENCHMARK



PLANS PREPARED UNDER THE SUPERVISION OF:

DATE: _____

PLANS PREPARED BY:



LANDSCAPE ARCHITECTURE
4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.cwdg.fun

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

CITY OF HIGHLAND

RECOMMENDED BY

APPROVED BY

SCOTT RICE, R.C.E. 5111, EXP. 12-31-22
CARLOS ZAMANO, CITY ENGINEER, R.C.E. 60153, EXP. 8-30-24

NATURAL PARKLAND TRAIL IMPROVEMENTS

CONSTRUCTION DETAILS 2

DRAWING NO.

SHEET 19 OF 19