



**TO: GCSB Board of Directors**

**FROM: Peter Kampa, General Manager**

**DATE: October 25, 2022**

**SUBJECT: Agenda Item 5D: Update Report on the Status of Current and Ongoing District Infrastructure Projects**

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**Big Creek/2G Clearwell – (Under budget and nearly a year over schedule):**

Attached please find the most recent progress meeting agenda. All components of this project are completed except for minor repairs to be completed by the contractor. We have submitted a proposal to the state for a contract amendment to allow us to use the remaining funds to replace the rusted floor of Tank 5. We have negotiated a proposed change order with the contractor to perform this work.

**WWTP Pond 1 Liner – (on time and within budget):**

The failed pond liner has been removed and new liner installed. Concrete drainage improvements have been completed and the contractor will complete the fence work soon.

**WWTP Phase 1 Improvements – (On time and within budget):**

The project involves road and sludge drying bed drainage improvements, sludge drying bed and processing area improvements, and improvements to all the gravel roads including culverts for the road servicing the wastewater plant ponds 1 and two and other internal roads on the treatment plant campus. The contractor is currently completing the installation of culverts, conduits and other pipes crossing the road, as well as preparing for the final concrete pour.

**Sewer Collection System Rehabilitation – (On time and within budget):**

Attached you will find the most recent progress meeting agenda. The project is moving along nicely and on schedule with no major damages, claims, or unforeseen conditions that could cause major change orders. The contractor is keeping staff updated on their construction schedule so that we can inform the public and make sure that they have a clear construction right of way.

**Groveland Asset Rehabilitation and Beautification (Clean California Grant):**

We are in the final selection process of the restroom, which will be ordered directly by the District, manufactured by the supplier in their warehouse, delivered to the site and installed with a huge crane. We expect the restroom fabrication to be 9-12 months, with installation taking one day. Please see the attached implementation plan which describes the next steps in project implementation.

**Hetch Hetchy Railroad Trail:**

Included with this agenda item are copies of the current project location maps, initial drawings, and budget as they were submitted to the Caltrans Active Transportation Program in the funding application. We are more than thrilled to announce to the Board that the project was one of the highest ranked grant applications when the funding recommendations were published on October

20th, 2022. This project involves the complete construction of the 12 foot wide paved trail from the Leon Rose baseball field to the resilience center, and from the resilience center to Mary Laveroni Park and on to Deer Flat Rd. As you will see in the project preliminary drawings, the trail includes numerous benches, lighting along its length, three bridges crossing the creek, extensive signage for both wayfinding and interpretation. The California Transportation Commission will consider approval of their staff recommendation in early December and contracts could be executed by spring 2023.

As soon as we receive authorization to proceed from the state, we were secure proposals for the engineering and landscape design. We plan to review the draft and final design with our project partners and the park committee as they are developed. Please give thanks to Rachel and Jennifer for their unrelenting energy and diligence in leading this project to the successes it has seen. This was truly a team effort as everyone throughout the organization jumped in to keep things running smoothly as we were buried in this process. Best team ever.

**GROVELAND COMMUNITY SERVICES DISTRICT  
BIG CREEK AND SECOND GARROTTE CLEARWELLS REHABILITATION  
PROJECT**

**22<sup>nd</sup> CONSTRUCTION PROGRESS MEETING**

October 19, 2022 @ 9:00 AM

**AGENDA**

I. INTRODUCTION

II. CONSTRUCTION PROGRESS SNAPSHOT

a. Total Project Cost	\$3,118,200.00
b. Total Change Order Costs	\$109,897.81
c. Budget Spent to Date	\$3,098,386.31
d. Percentage Funding Used to Date	99.4%
e. Days for Completion	141 Working Days
f. Elapsed Days	317 Working Days (March 18, 2022)
g. Weather Days	4 Weather Day
h. Remaining Days	-172 Working Days

III. CONSTRUCTION SITE REPORTS

- a. Progress to Date
- b. Contractor (1-MONTH LOOK AHEAD)

IV. CHANGE ORDERS

- a. Fully Executed
  - i. Change Order No. 1 – Additional Structural Repairs in Big Creek Clearwell (\$33,217.80 and 8 Additional Working Days)
  - ii. Change Order No. 2 – Relocation of ARV to Adjacent Wye Fitting at Butler Way Pump Station (No Cost and 2 Additional Working Days)
  - iii. Change Order No. 3 – Installation of Insulation in Both the Big Creek and Second Garrotte New Electrical Cabinets (\$953.00 and No Working Days)
  - iv. Change Order No. 4 – Inspection Sand Blast (Time & Material) (\$46,457.90 and 4 Additional Working Days)
  - v. Change order No. 5 – Addition of Inlet ARV at Butler Way Pump Station (\$2,116.00 and 1 Working Day)

- vi. Change order No. 6 – Upgrade of Pressure Transmitter at Butler Way Pump Station (\$3,832.50 and 0 Working Day)
- vii. Change Order No. 7 – Additional Communications Between Tank1 and Butler Way Pump Station (\$5,637.45 and 1 Working Day)
- viii. Change Order No. 8 – Additional Big Creek Punch List Items (\$10,800 and 1 Working Day)
- ix. Change Order No. 9 – Additional Work at Butler Way Pump Station (Discharge Piping) (\$2,837.44 and 1 Working Day)
- x. Change Order No. 10 – Additional Work at Second Garrotte for surface preparation and coating of exterior influent/effluent pipelines (T&M) (\$7,500.00 and 3 Working Day)
- xi. Change Order No. 11 – Credits for Butler Way Pump Station (Gate Valve/Pressure Transducer) (-\$3,454.28 and 0 Working Day)

b. Denied

- i. Pending Change Order No. 1 – Oil in Tank (\$48,539.00 and 14 additional Working Days)
- ii. Pending Change Order No. 6 – Lid Pin Holes Repairs (\$14,200 and 2 additional Working Days)
- iii. Pending Change Order No. 11 – Oil Removal from Big Creek Clearwell Baffles (\$39,078.00 and 7 Working Days)
- iv. Pending Change Order No. 15 – Oil in Second Garrotte Clearwell (\$22,000 and 4 Working Days)
- v. Pending Change Order No. 16 – Oil in Second Garrotte Clearwell Baffles (\$10,600 and 2 Working Days)
- vi. Pending Change Order No. 18 – Additional Endura flex Coating Expenses (\$72,450.00 and 0 additional Working Days)

V. SUBMITTAL REVIEW

- a. Approved Submittals
  - i. Submittal No. 1 – 44
- b. Remaining Submittals
  - i. None

VI. REVIEW RFI LOG

- a. Responded RFI's
  - i. RFI No. 1 – 37
- b. Pending RFI's

i. None

VII. CLAIMS

- a. Claim No. 1 – Oil in the Big Creek Clearwell
  - i. Responded
- b. Claim No. 2 – Additional Expenses Incurred for Big Creek Clearwell Coating
  - ii. Responded
- c. Claim No. 3 – Relocation of ARV at Butler Way Pump Station
  - iii. Claim Removed on March 12, 2021.
- d. Claim No. 4 – Mill Scale in Big Creek and CCT Tanks
  - iv. Responded
- e. Claim No. 5 – Oil Removal from Big Creek Baffles
  - v. Responded
- f. Claim No. 6 – Oil in Second Garrotte Clearwell
  - vi. Responded
- g. Claim No. 7 - Oil Removal from Second Garrotte Baffles
  - vii. Responded
- h. Claim No. 8 – Additional Expenses Incurred for Second Garrotte Clearwell Coating
  - viii. Responded
- b. Tank 5 Improvements Proposed to Remove Claims and Liquidated Damages
  - i. Next steps with Project
    - 1. \$265,000
      - a. Farr Construction to provide subcontractors name and experience
    - 2. Additional documentation being submitted
      - a. 3-month review process
        - i. Cant execute change order until State has approved the additional documentation.
      - b. Technical Memorandum and Biological Assessment submitted September 29, 2022

VIII. PAYMENT REQUESTS

- a. Processed
  - i. Disbursement Request No. 1 (\$267,200.00)
  - ii. Disbursement Request No. 2 (\$258,750.00)

- iii. Disbursement Request No. 3 (\$597,892.00)
- iv. Disbursement Request No. 4 (\$485,441.00)
- v. Disbursement Request No. 5 (\$58,082.34)
- vi. Disbursement Request No. 6 (\$35,625.00)
- vii. Disbursement Request No. 7 (\$291,650.00)
- viii. Disbursement Request No. 8 (\$326,571.00)
- ix. Disbursement Request No. 9 (\$272,175.00)
- x. Disbursement Request No. 10 (\$245,575.00)
- xi. Disbursement Request No. 11 (\$35,625.00)
- xii. Disbursement Request No. 12 (\$75,477.50)
- xiii. Disbursement Request No. 13 (\$47,847.70)
- xiv. Disbursement Request No. 14 (\$26,125.00)
- xv. Disbursement Request No. 15 (\$7,125.00)
  - 1. Once Tank 5 agreement is in place, withheld payments will be released.
    - a. Groveland CSD has been advised by their attorney to not issue any further payments summing to a total of 100% to 150% of the contractor claims until Claims No. 1 through 8 have been removed.
  - 2. Lighthouse Electrical contacted the District regarding payment that has not been issued.

IX. PROJECT SCHEDULE

- i. Butler Way Pump Station
  - 1. Sound enclosure installed
    - a. Manufacturer provided submittal package for our review and approval to alleviate defects.
      - i. Standing seam roof with gutter (Leaks in Roof)
        - 1. Weatherproof
          - a. AMCE provided response to comments 10/5/2022
      - ii. Coat exterior onsite with airless sprayer utilizing same material as factory coating and color match.

- ii. Second Garrotte
  - 1. All punch list Items addressed
    - a. Dive inspection to occur March 2023.
- iii. Big Creek
  - 1. All punch list Items addressed
    - a. Dive inspection completed July 21, 2022
      - i. Repairs will be fixed during the second year inspection.

X. SUBSTANTIAL COMPLETION

- a. As the furnish of the sound enclosure panel for the fan is out of Farr Constructions control, substantial completion was granted once the electrical work at Second Garrotte was completed, and the heater and lights were installed at the Butler Way Pump Station (March 18, 2022).
- b. Substantial completion letter
  - i. Farr Construction provided a letter stating that substantial completion was achieved on December 16, 2022.
    - 1. AM Consulting will provide a response letter.

XI. CONCERNS

- a. Project Completion Date
  - i. Liquidated Damages will be assessed per Section 005200 – Agreement Between Owner and Contractor for Construction Contract, Paragraph 4.03 (A).

XII. ADJOURN

**GROVELAND COMMUNITY SERVICES DISTRICT  
SEWER COLLECTION SYSTEM IMPROVEMENTS PROJECT  
CONSTRUCTION PROGRESS MEETING**

October 17, 2022 @ 8:30 AM

AGENDA

- I. INTRODUCTIONS
- II. CONSTRUCTION PROGRESS SNAPSHOT
  - a. Total Project Cost (Contractor) \$3,653,429.00
  - b. Total Funding Agreement (Total Project) \$5,845,568.00
  - c. Budget Spent to Date (Contractor) \$898,107.10
  - d. Budget Spent to Date (Total Project) \$1,423,308.36 (+59,758.29 CCO 3-4, 6, 8-9)
  - e. Total Project Contingency \$922,877.00
  - f. Contingency Used to Date \$89,576.47 (+59,758.29 CCO 3-4, 6, 8-9)
  - g. Percentage Funding Used to Date (Contractor) 24.6%
  - h. Percentage Funding Used to Date (Total Project) 24.3%
  - i. Percent Contingency Used to Date 9.7%
  - j. Days for Completion 348 Calendar Days (All CCO's)
  - k. Elapsed Days 126 Calendar Days
  - l. Weather Day 0 Weather Day
  - m. Remaining Days 222 Calendar Days
- III. CONSTRUCTION SITE REPORTS
  - a. Progress to Date
  - b. Contractor (1-MONTH LOOK AHEAD)
- IV. CHANGE ORDERS
  - a. Executed Change orders
    - i. Change Order No. 1 – MH-2003 to MH-2004 Trench Rock Break (T&M) (\$2,352.97 and 0 .50 calendar days) (To be included in DR No. 4)
    - ii. Change Order No. 2 – MH-101 Removal (\$2,550.00 and 0 .50 calendar days) (To be included in DR No. 4)
    - iii. Change Order No. 3 – MH-3 to MH-4 Replacement in Lieu of Spot Repair (\$38,790.00 and 3 calendar days) (Improvement Pending)
    - iv. Change Order No. 4 – MH-37 to MH-38 Improvement Revisions (-\$3,900.00 and 1 calendar day) (CIPP Improvement Pending)
    - v. Change Order No. 5 – Trash Disposal & Potholing for MH-20 to MH-21 (\$5,383.50 and 1 calendar day) (To be included in DR No. 4)



- vi. Change Order No. 6 – MH-97 to MH-97B Culvert T&M (\$6,929.52 and 1 calendar day) (To be included in DR No. 4 – School to refund costs) (Sent Contractor 8/23/22)
  - vii. Change Order No. 7 – MH-10-24 to MH-10-20 Replacement in Lieu of Spot Repair (\$79,290.00 & 2 Calendar Days) (To be included in DR No. 4)
  - viii. Change Order No. 8 – MH-123 to MH-124 (-\$8,271.00 and 1 Calendar Day) (Concrete Improvements Pending)
  - ix. Change Order No. 9 – MH-4-93 to MH-4-95, MH-4-93 to MH-4-276 & MH-4-276 to MH-4-275B Improvement Revisions (\$26,210.00 & 3 Calendar Days) (Sent Contractor 9/1/2022)
- b. Pending Change Orders
- i. Change Order No. 10 – MH-10-10 to MH-10-8 Creek Crossing/2 Lateral Improvements (Pending Materials/T&M Documents – 2 T&M Documents Received)
  - ii. Change Order No. 11 – MH-4-251 Alignment Revisions (RFI No. 2) (Pending T&M Documents)
  - iii. Change Order No. 12 – MH-97 to MH-97B Culvert T&M Paving Work (Pending T&M Documents)
  - iv. Change Order No. 13 – MH-1-325A to MH-1-324 Creek Crossing (Pending Materials/T&M Documents)
  - v. Change Order No. 14 – MH-1-315 to MH-1-320 Creek Crossing (Pending Materials/T&M Documents)
- c. Final Change Order List
- i. Budget of \$500,000 until project is completed
  - ii. Estimate approximately 1 to 1.5 million remaining at end of project
    - 1. Final Direction Received and provided to Moyle regarding material procurement and additional improvements.
    - 2. AMCE developed change order tracking list that separates out the change order costs incurred for this list and the project in general.

## V. SUBMITTAL REVIEW

- a. Approved Submittals
  - i. Submittal No. 1 – 15.1 & 17 – 20
- b. Rejected
  - i. Submittal No. 16
- c. Remaining Submittals
  - i. Additional Requirements for Bore & Jack/Creek Crossings

VI. REVIEW RFI LOG

- a. Received/Pending RFI's
  - i. RFI No. 1 – Bore and Jack Information
    - 1. Response sent 8/9/2022
  - ii. RFI No. 2 – MH-4-251 Alignment Revisions
    - 1. Direction Provided via Email 8/17/2022
    - 2. Formal Response provided 8/25/2022
  - iii. RFI No. 3 – MH-1-325A to MH-1-324 Creek Crossing
    - 1. Formal response sent 9/15/2022
  - iv. RFI No. 4 – Reid Circle Tree
    - 1. Formal response sent 9/29/2022
  - v. RFI No. 5 – Use of Grade Rings to bring Manhole's to Grade
    - 1. Formal Response provided 10/10/2022

VII. PAYMENT REQUESTS

- a. FBA Approval (Phase 2)
  - i. Fully Executed Agreement
- b. Processed
  - i. Disbursement Request No. 1 (\$58,259.00)
    - 1. Received. (Submitted 1/28/2021)
  - ii. Disbursement Request No. 2 (\$111,500.00)
    - 1. Received. (Submitted 3/24/2021)
  - iii. Disbursement Request No. 3 (\$183,773.00)
    - 1. Received. (Submitted 7/6/2022)
  - iv. Disbursement Request No. 4 (\$1,020,392.00)
    - 1. Payment in Hand by 11/16/2022
  - v. Disbursement Request No. 5 (Pending)
    - 1. Requested documents 9/22/2022

VIII. ENCROACHMENT PERMITS

- i. CalTrans Encroachment Permits
  - 1. MH-2 to MH-3 (July 8, 2023 Expires)
    - a. Shoulder Close Permit with Flagging
    - b. Traffic control plan completed
      - i. AMCE/Contractor Permit Received

1. Requested Schedule to Completion update
  2. MH-48A to MH-49 (July 8, 2023 Expires)
    - a. Shoulder Close Permit
    - b. Traffic control plan completed
      - i. AMCE/Contractor Permit Received
        1. Requested Schedule to Completion update
  3. MH-17 to FB-105 (July 8, 2023 Expires)
    - a. No Traffic Control Required
      - i. AMCE/Contractor Permit Received
        1. Requested Schedule to Completion update
  4. MH-47 to MH-48 (March 31, 2023 Expires)
    - a. No Traffic Control Plan
    - b. Must be completed by August 31, 2022
      - i. Provide 7-day notice to CalTrans
      - ii. Requested extension 8/11/22
        1. Extending to March 31, 2022.
- ii. Tuolumne County Encroachment Permits (January 28, 2023 Expires)
    1. The following sewer pipelines will be replaced/rehabilitated within the County right of way:
      - a. Anderson St/Vassar St, Big Oak Flat, CA - replacement of approximately 140 LF of sewer pipe,
      - b. School St, Big Oak Flat, CA - replacement of approximately 195 LF of sewer pipe and the addition of a new manhole,
      - c. Black Rd, Big Oak Flat, CA - cured in place pipe (CIPP) rehabilitation approximately 160 LF,
      - d. Clements Rd, Pine Mountain Lake - replacement of approximately 602 LF of sewer pipe,
      - e. Clements Rd, Pine Mountain Lake - replacement of 6 LF of cracked sewer pipe,
      - f. Clements Rd, Pine Mountain Lake - Replacement of approximately 328 LF of sewer pipe,
      - g. Catholic Cemetery St, Big Oak Flat, CA, replacement of factor tap (lateral connection),
      - h. Ponderosa Ln, Groveland CA, CIPP rehabilitation approximately 162 LF

- iii. Hetch Hetchy Encroachment Permits
  - 1. Must commence construction of Hetch Hetchy improvements within 240 days (November 6, 2022).
    - a. Notify Hetchy of start of work 10 day in advance
      - i. Work to be started on October 3, 2022
      - ii. Notice sent 9/15/2022
  - 2. Complete improvements within 365 days (March 11, 2023).
- iv. Contractor concurrence with all encroachment permits
  - 1. Sent 9/6/2022
- v. GIS Data Gathering
  - 1. Adam to train Les to use Trimble R2 unit
  - 2. Les to store unit at Adams office
    - a. Use only to gather points then return

## IX. PROJECT SCHEDULE

- i. Schedule
  - 1. 3-week look ahead (updated 9/22/2022)
    - a. Emailed update 10/12/2022
  - 2. To completion (Updated 7/20/22)
    - a. Emailed update 10/12/2022
- ii. Notices to Homeowners
  - 1. Notices to be sent out for two-month work period.
    - a. From schedule to completion
  - 2. Notices to be sent out for three work period.
    - a. Once on short schedule
  - 3. Notices to be sent out for one week work period (with exact tentative dates provided).
    - a. Door hangers to be provided to Les for placement on doors when construction is about to take place in specific areas.
- iii. Construction Staking
  - 1. All alignments have been staked for Pine Mountain Lake, Groveland and Big Oak Flat
  - 2. CCTV marked spot repairs and laterals
  - 3. PUE staking locations only for PML hardware store (Completed)
- iv. Completion Reports
  - 1. Les to develop list of completed pipelines and update weekly.

- v. Final Deliverable Dates:
  - 1. Construction Completion Date: December 31, 2024.
  - 2. Final Disbursement Date: June 30, 2025.

X. CONCERNS

- a. Pine Mountain Lake Hardware Store Sign
  - i. Adam is working with the store owner to get the sign taken down/additional construction easement.
    - 1. Adam talked with PML hardware store owner 9/19/22
  - ii. Sign should be relocated away from new sewer pipeline.
    - 1. Encroachment permit to be filed and reviewed.
  - iii. Easement Found for this location.
    - 1. Additional land to be requested from owner.
  - iv. Schedule to be provided for work to provide ample notice to the homeowner.
- b. Easement and Access Agreements
  - i. Land and Structure to gather and process
    - 1. \$2,500 to \$3,500
  - ii. Yosemite Title Company
    - 1. \$150 /hr
  - iii. County website providing access to District documented easements.
  - iv. Pine Mountain Lake, Big Oak Flat and Groveland Easements Found in District Storage.
  - v. AMCE holding off on easement letter until required
    - 1. 10' each side of pipe along centerline

XI. ADJOURN

## Groveland Asset Rehabilitation and Beautification Project – Implementation Plan

Complete **environmental** planning and **design** of the three (3) mile Hetch Hetchy Railroad trail along the historic railroad grade

1. WRT Proposal needed to prepare:
  - a. Sod removal area landscape plan, irrigation.
  - b. Shade structure and trail kiosk location(s) and layout/design
  - c. Circulation plan – sidewalks and bike facilities
  - d. Wayfinding signage and layout
2. Trail environmental (Complete)
3. Trail survey, engineering design, plans and specifications development (AM-CE, with landscape/aesthetic design input from WRT?) Brandon is securing proposals for surveying.
4. Complete engineering design (maybe survey?) for restroom retaining wall and utilities (after we ensure restroom location with WRT if needed)

**Replacement** of an undersized, non-functional public **restroom** with a new restroom in Mary Laveroni Park, sized appropriately to handle peak usage rates of 300 persons per hour, including site lighting, ADA drinking fountains and heating for winter use. Constructing a new covered transit shelter and bike facilities in Mary Laveroni Park.

1. Complete restroom specifications
2. Get input from TCTC (YARTS), Chamber
3. Place restroom order
4. GCSD install sewer/water/power connections to site (in kind) or combine with construction contract below if too much work
5. Supplier performs installation and connections to relocated utilities

**Removing** approximately 50-80 cubic yards of **debris and trash** from a GCSD property adjacent to the park allowing this new 37 acres amenity to be opened to the public. Clearing and regrading roads to make safely passable.

1. Separate small contract (and CCC crew to control cost?)

### **ANTICIPATED CONSTRUCTION CONTRACT – Assume Competitive Bid Process (Brandon)**

**[Budget \$426,600]**

1. Removing approximately 3000 square feet of irrigated turf grass
2. Demolition of old restroom (potential in-house for in kind?)
3. Construct new walkways and paths connecting and providing handicapped access to the new restrooms, bus shelter, picnic area and benches to the existing benches and playground area
4. Install 2000 square feet of drought tolerant California native plantings along walkways and paths, adjacent to the new picnic area, bus shelter and restrooms
5. Installation of an information kiosk with wayfinding signage in Mary Laveroni Park, directing pedestrians to the existing and new park recreation amenities and trails, to local downtown connections and the future pedestrian bridge planned to connect the downtown core with the future Hetch Hetchy trail in the natural area adjacent to the park. Installation of interpretive and educational signage regarding the Hetch Hetchy Railroad and Jefferson Mine.
  - Signage install could be by GCSD, CCC, Chamber or Rotary? This frees up the loan money for trail work?
6. Construction of retaining wall, backfill and compact at restroom location

### **New 37 acres (CALFIRE CREW and/or FEMA Hazard Mitigation Grant (Application in progress))**

1. Removing downed trees, overgrown brush and moving boulders to allow opening of the new 37-acre fantastic natural area to hiking, biking and future camping.
2. Need to submit an application to County to rezone the property as Public

### **GCSD and Chamber in-kind**

1. Install new planters and benches along Main Street furnishing improvements will be on local, publicly controlled property, or with agreements with private property owners. Each receptacle installed on Main Street will be painted by local artists; the purpose of which is to display the mining, California water and railroad history, as well as to depict the Yosemite National Park, National Forest and Sierra Nevada Gateway identity of Groveland.
2. Installing eight (8) new, animal resistant trash and recycling receptacles in the park and twelve (12) along the adjacent downtown Main Street.
3. Complete receptacle, bench and planter specifications
4. Caltrans and/or county encroachment permit (Brandon and Rachel) if needed
5. Get input from County? And Chamber
6. Place order
7. GCSD install trash receptacles, hopefully downtown benches and planters installed by Chamber – or could be a good job for Rotary or CCC
8. Purchase and install gate on 37 acre parcel entrance from BLM, place boulders

### Budget

General Overhead-Related Construction Items							
1	Mobilization/Demobilization	1	LS	\$25,000.00	\$25,000	100%	\$25,000
2	Clearing and Grubbing Trail	1	LS	\$30,000.00	\$30,000	100%	\$30,000
3							
4							
5							
6							
7							
8							
9							
0							

General Construction Items							
1	Demolition and Disposal of Old Restroom	1	EA	\$35,000.00	\$35,000	100%	\$35,000
2	Public Restroom Hookups and Site Prep	1	LS	\$6,500.00	\$6,500	100%	\$6,500
3	Prefab Public Restroom Purchase and Install	1	EA	#####	\$342,768	100%	\$342,768
4	Pedestrian Paths Throughout Upper Park	500	LF	\$30.00	\$15,000	100%	\$15,000
5	Wayfinding, Interpretive and Educational Signage	1	EA	\$50,000.00	\$50,000	100%	\$50,000
6	Trailhead Information Kiosk	1	EA	\$10,000.00	\$10,000	100%	\$10,000
7	Drought Tolerant Landscaping and Drip Irrigation	2000	SF	\$25.00	\$50,000	100%	\$50,000
8	New Picnic Area with Tables and Shade Cover	1	EA	\$60,000.00	\$60,000	100%	\$60,000
9	Transit Shelter Construction With Benches	1	EA	\$12,500.00	\$12,500	100%	\$12,500
0	Purchase and Install Bicycle Parking	1	EA	\$5,000.00	\$5,000	100%	\$5,000
1	Bench Installations - Park, Downtown and Trail	16	EA	\$3,200.00	\$51,200	100%	\$51,200
2	Trash/Recycle Receptacles - Park and Trail	8	EA	\$3,500.00	\$28,000	100%	\$28,000
3	Construct Retaining Wall at Restroom	15	CY	\$3,500.00	\$52,500	100%	\$52,500
4	Backfill and Compact at Retaining Wall	1	EA	\$10,000.00	\$10,000	100%	\$10,000
5	Concrete Flatwork at Restroom	600	SF	\$30.00	\$18,000	100%	\$18,000
6	Recycling Receptacles With Artwork - Main Street	12	EA	\$2,625.00	\$31,500	100%	\$31,500
7	Trash Receptacles With Artwork - Main Street	12	EA	\$2,625.00	\$31,500	100%	\$31,500
8	Beautification Planters - Main Street	65	EA	\$1,100.00	\$71,500	100%	\$71,500
9	Vehicle Gate and Barrier Install on 37 Acres	1	EA	\$9,200.00	\$9,200	100%	\$9,200
0	Refuse Removal on 37 Acre Parcel	80	CY	\$450.00	\$36,000	100%	\$36,000

52	Subtotal of Construction Items:	\$981,168		\$981,168			
	Construction Item Contingencies (% of Construction Items):	20.00%	\$196,234	\$196,234			
	<b>Total (Construction Items &amp; Contingencies) cost:</b>		\$1,177,402	\$1,177,402			
Project Delivery Costs:							
Type of Project Cost	Cost \$	CCLGP Participating Costs	CCLGP Non-participating Costs				
<b>Preliminary Engineering (PE)</b>							
Environmental Studies and Permits (PA&ED):	\$ 46,308	\$46,308					
Plans, Specifications and Estimates (PS&E):	\$ 92,617	\$92,617					
<b>Total PE:</b>	<b>\$ 138,925</b>	<b>\$138,925</b>					12% 25% Max
<b>Right of Way (RW)</b>							
Right of Way Engineering:	\$ 20,000	\$20,000					
Acquisitions and Utilities:	\$ 20,000	\$20,000					
<b>Total RW:</b>	<b>\$ 20,000</b>						
<b>Total Pre-Construction Costs (PE+RW):</b>	<b>\$158,925</b>	<b>\$158,925</b>					
<b>Construction Engineering (CE)</b>							
Construction Engineering (CE):	\$ 33,200	\$33,200					3% 15% Max
<b>Total Construction Costs:</b>	<b>\$1,210,602</b>	<b>\$1,210,602</b>					
<b>Total Project Cost:</b>							
	\$1,369,527	\$1,369,527					

# Detailed Project Estimate and Total Project Costs- Cycle 6

Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).

## Project Information:

Agency: Groveland Community Services District	Date: 6/15/2022
Project Description: This project will develop Phases I and II of the Hetch Hetchy Railroad Trail Project (HHRT) located in Groveland,	
Project Location: Groveland, California	
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate: Manrique, Alfonso	
License #: C63673	

## Project Estimate and Cost Breakdown:

Project Estimate (for Construction Items Only)						Cost Breakdown					
Item No.	Item	Quantity	Units	Unit Cost	Total Item Cost	ATP Eligible Costs/Items		ATP Ineligible Costs/Items		Corps/CCC to construct	
						%	\$	%	\$	%	\$
<b>General Overhead-Related Construction Items</b>											
1	Mobilization	1	LS	\$224,000.00	\$224,000	100%	\$224,000				
2	Traffic Control	1	LS	\$25,000.00	\$25,000	100%	\$25,000				
3	Stormwater Protection Plan	1	LS	\$15,000.00	\$15,000	100%	\$15,000				
4								100%			
5								100%			
6								100%			
7								100%			
8								100%			
9								100%			
10								100%			
<b>General Construction Items</b>											
11	Multiuse Trail Phase I (Ball Field Complex to Deer Flat)	8,017	LF	\$60.00	\$481,020	100%	\$481,020				
12	Pedestrian Bridge 1 (Between Ball Park and Resiliency Center)	40	LF	\$8,600.00	\$344,000	100%	\$344,000				
13	Pedestrian Bridge 2 (Near Utility crossing upstream from GCSD)	70	LF	\$8,600.00	\$602,000	100%	\$602,000				
14	Pedestrian Bridge 3 (@ Mary Laveroni Park)	40	LF	\$8,600.00	\$344,000	100%	\$344,000				
15	Public Information Kiosks	3	EA	\$10,000.00	\$30,000	100%	\$30,000				
16	Bench Installations	18	EA	\$3,200.00	\$57,600	100%	\$57,600				
17	Trash Receptacles	18	EA	\$1,500.00	\$27,000	100%	\$27,000				
18	Wayfinding Signage	3	EA	\$5,000.00	\$15,000	100%	\$15,000				
19	Interpretive Signage	3	EA	\$10,000.00	\$30,000	100%	\$30,000				
20	Pathway Lighting	54	EA	\$7,000.00	\$378,000	100%	\$378,000				
21	18" Drainage Culvert	20	LF	\$500.00	\$10,000	100%	\$10,000				
22	Retaining Wall	40	LF	\$1,000.00	\$40,000	100%	\$40,000				
23	Clearing, Stripping and Grubbing	1	LS	\$52,000.00	\$52,000	100%	\$52,000				
24	Erosion Control	1	LS	\$50,000.00	\$50,000	100%	\$50,000				
25	Earthwork/Grading	7,200	CY	\$45.00	\$324,000	100%	\$324,000				
26	Roadside Clearing (Tree Removal)	1	LS	\$160,000.00	\$160,000	100%	\$160,000				
27	Chainlink Fence	3,400	LF	\$30.00	\$102,000	100%	\$102,000				
28	Safety Rail	1,615	LF	\$19.00	\$30,685	100%	\$30,685				
29	Lighting-System	1	LS	\$410,000.00	\$410,000	100%	\$410,000				
30	Stripping	1	LS	\$20,000.00	\$20,000	100%	\$20,000				
31	ADA and Dog Drinking Fountains	3	EA	\$8,500.00	\$25,500	100%	\$25,500				
32	Bike Parking	3	EA	\$5,000.00	\$15,000	100%	\$15,000				
33								100%			
34								100%			
35								100%			
36								100%			
37								100%			
38								100%			
39								100%			
40								100%			
41								100%			
42								100%			
43								100%			
44								100%			
45								100%			
46								100%			
47								100%			
48								100%			
49								100%			
50								100%			
51								100%			
52								100%			
<b>Subtotal of Construction Items:</b>					<b>\$3,811,805</b>		<b>\$3,811,805</b>				
<b>Construction Item Contingencies (% of Construction Items): 10.00%</b>					<b>\$381,181</b>		<b>\$381,181</b>				
<b>Total (Construction Items &amp; Contingencies) cost:</b>					<b>\$4,192,986</b>		<b>\$4,192,986</b>				

## Project Delivery Costs:

Type of Project Cost	Cost \$	ATP Eligible Costs	Non-participating Costs	
<b>Preliminary Engineering (PE)</b>				
Environmental Studies and Permits(PA&ED):	\$ 185,000	\$185,000		
Plans, Specifications and Estimates (PS&E):	\$ 390,000	\$390,000		"PE" costs / "CON" costs
<b>Total PE:</b>	<b>\$ 575,000</b>	<b>\$575,000</b>		<b>14% 25% Max</b>
<b>Right of Way (RW)</b>				
Right of Way Engineering:	\$ 150,000	\$150,000		
Acquisitions and Utilities:				
<b>Total RW:</b>	<b>\$ 150,000</b>	<b>\$150,000</b>		



## Detailed Project Estimate and Total Project Costs- Cycle 6

**Important: Read the Instructions in the first sheet (tab) before entering data. Do not enter data in shaded fields (with formulas).**

### Project Information:

Agency:	Groveland Community Services District		Date:	6/15/2022
Project Description:		This project will develop Phases I and II of the Hetch Hetchy Railroad Trail Project (HHRT) located in Groveland,		
Project Location:		Groveland, California		
Licensed Engineer in responsible charge of preparing or reviewing this PSR-Equivalent Cost Estimate:		Manrique, Alfonso		License #:
		C63673		
<b>Total Pre-Construction Costs (PE+RW):</b>		\$725,000	\$725,000	
<b>Construction Engineering (CE)</b>				
Construction Engineering (CE):		\$	525,000	\$525,000
				13%
				15% Max
<b>Total Construction Costs:</b>		\$4,717,986	\$4,717,986	
			ATP Eligible Costs	Non-participating Costs
<b>Total Project Cost:</b>		\$5,442,986	\$5,442,986	

### Documentation of Ineligible (Non-Participating) Costs:

The Engineer's logic and/or calculations for splitting costs between ATP-Eligible and Non-participating costs must be documented in this section of the Estimate form.

Separate logic is required for each item which is partly ineligible for ATP funding or is required for the construction of an ineligible item/element of the project.

Item #:	Description of Engineer's Logic: <span style="color: red;">(See examples shown in the Instructions)</span>

# Hetch Hetchy Railroad Trail Project (HHRT)

## Groveland Community Services District

Pine Mountain Lake

- Hetch Hetchy Railroad Trail
- Future Phase Hetch Hetchy Railroad Trail
- Future Regional Trail Network
- Creek
- Bridge Crossing
- HHRT Entry Point
- Downtown Groveland
- Future RV Park/Campground
- Existing Dog Park/Future Sports Complex
- Park

Existing Dog Park, Ball Field, and Future Sports Complex

In progress Resilience Center and trail connection to Ferretti Road/Pine Mountain Lake

Pine Mountain Lake Main Entry

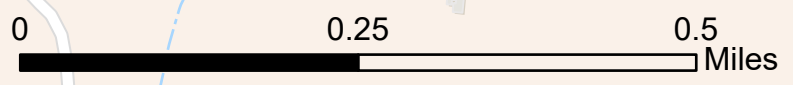
Future Vanlife, RV Park, and Campground

Possible Future Trail Connection

**Downtown Groveland**  
Community Resources, Shopping, Dining, Shops with Wi-Fi, Lodging

Future Phase of HHRT connecting to Big Oak Flat

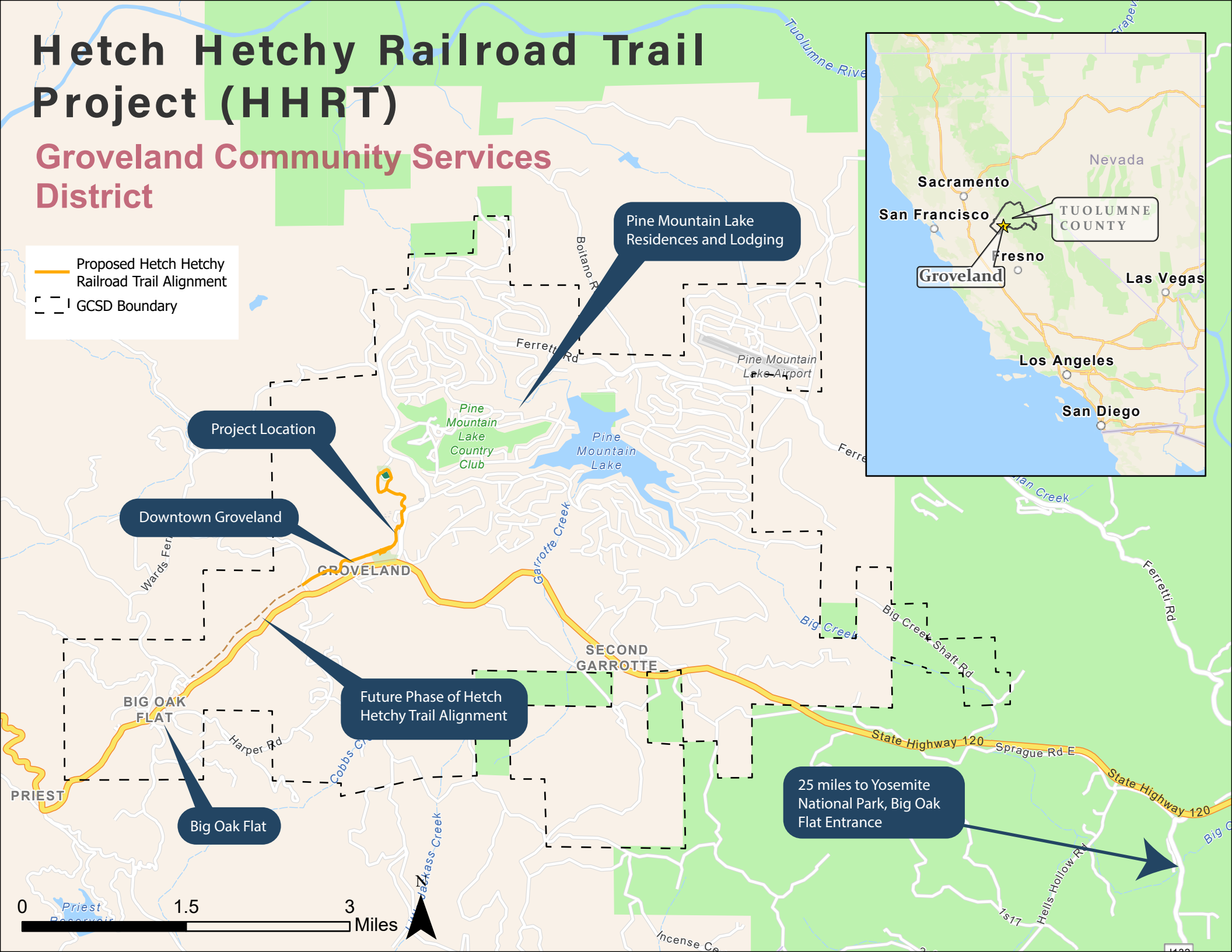
Groveland



# Hetch Hetchy Railroad Trail Project (HHRT)

## Groveland Community Services District

- Proposed Hetch Hetchy Railroad Trail Alignment
- GCS D Boundary



Project Location

Downtown Groveland

Future Phase of Hetch Hetchy Trail Alignment

Big Oak Flat


Pine Mountain Lake Residences and Lodging


25 miles to Yosemite National Park, Big Oak Flat Entrance





# Hetch Hetchy Railroad Trail

## Groveland Community Services District

 Proposed Hetch Hetchy Railroad Trail

 Future Phase to Big Oak Flat

 Pedestrian/Bike Bridge

 Parcel lines showing Right-of-Way

**Future Sports Complex & Existing Ball Field and Dog Park**

**New Trailhead Amenities**  
 -Trailhead kiosk  
 -Wayfinding signage  
 -Bike Parking  
 -Trash receptacles  
 -Picnic Tables

**New Bird Watching Benches**

**New Pedestrian Bridge over Creek**

**Connection path to Resilience Center**

**GCSO Offices**  
 -New Bike Parking  
 -New Water Fountain

**New Pedestrian Bridge**  
 Connection to Mary Laveroni Park and Downtown Groveland

**New Pedestrian Bridge over Creek**







**New Paved Shared Use Path (width = 12 feet)**

**New Trailhead Amenities**  
 -Trailhead kiosk  
 -Wayfinding signage  
 -Bike parking  
 -Trash receptacles  
 -Interpretive signage

**New Trailhead Amenities**  
 -Trailhead kiosk  
 -Wayfinding signage  
 -Trash receptacles

**Future Phase to Big Oak Flat**

### Trail Amenities to be Included:

-  Bicycle Parking
-  Drinking Fountain
-  Trailhead Kiosk & Wayfinding Signage
-  New Trash Bins (18 total new bins)
-  Bird Watching & Trail Benches (18 total new benches)
-  Pathway Lighting (54 total light fixtures)

0 500 1,000 ft



# Hetch Hetchy Railroad Trail

## Parcel and Right-of-Way Ownership Map

- Proposed Hetch Hetchy Railroad Trail
- Future Phase to Big Oak Flat
- Pedestrian/Bike Bridge
- Parcel and Right-of-Way Lines
- SFPUC Right-of-Way (GCSD has obtained letter of intent to purchase from SFPUC and is currently in escrow)
- Caltrans property (not used by Caltrans and GCSD has agreement with Caltrans for easement)
- GCSD controled and owned parcels

Future Sports Complex & Existing Ball Field and Dog Park

Resilience Center

GCSD Offices

SFPUC Property  
GCSD in escrow for purchase and has obtained letter of intent from SFPUC

Caltrans property  
Easement agreement in place

MARY LAVERONI PARK  
STATE ROUTE 120

DOWNTOWN GROVELAND

Future Phase to Big Oak Flat

0 500 1,000 ft



# Existing Conditions



# Proposed Design

Mary Laveroni Park

North

↑  
to the  
GCSD Offices &  
Resilience Center

↓  
to Deer Flat Road

**Class 1 Multi-Use Path**  
**Width : 12 ft**



# EXISTING CONDITIONS - MIDDLE BRIDGE



*Location of middle pedestrian bridge beneath the GCSO office. A clear-span bridge (approx. 70 feet) with concrete abutments will be needed in approximately the location of the water and sewer crossing the creek. The bridge would also protect the exposed sewer/water pipes.*



# EXAMPLE BRIDGE RENDERING

## RENDERING OF MIDDLE BRIDGE



# EXISTING CONDITIONS

## EXISTING CONDITIONS - MARY LAVERONI PARK TRAILHEAD KIOSK



*Location of trailhead kiosk and HHRT entrance at Mary Laveroni Park near the western pedestrian bridge.*

# EXAMPLE KIOSK RENDERING

## MARY LAVERONI PARK TRAILHEAD

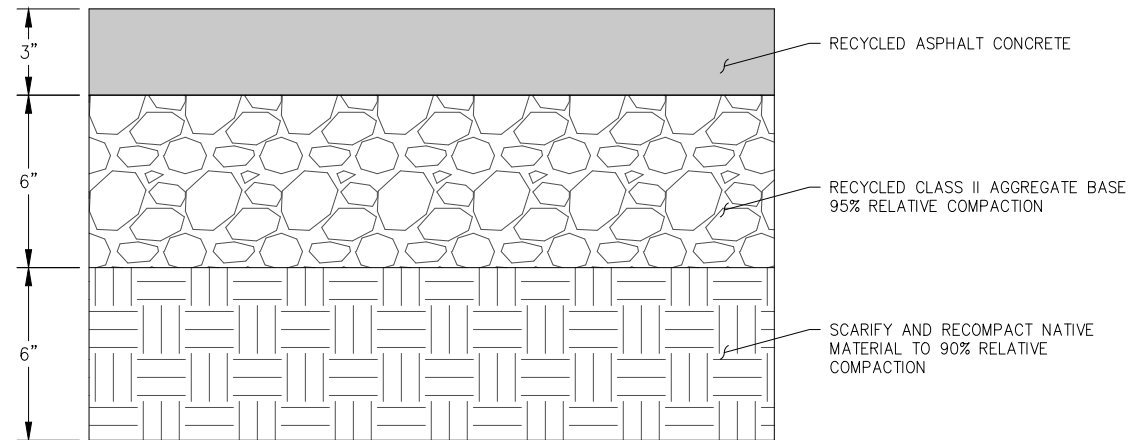


**Groveland CSD**  
**Hetch Hetchy Railroad Trail Project**  
**Design Standards**

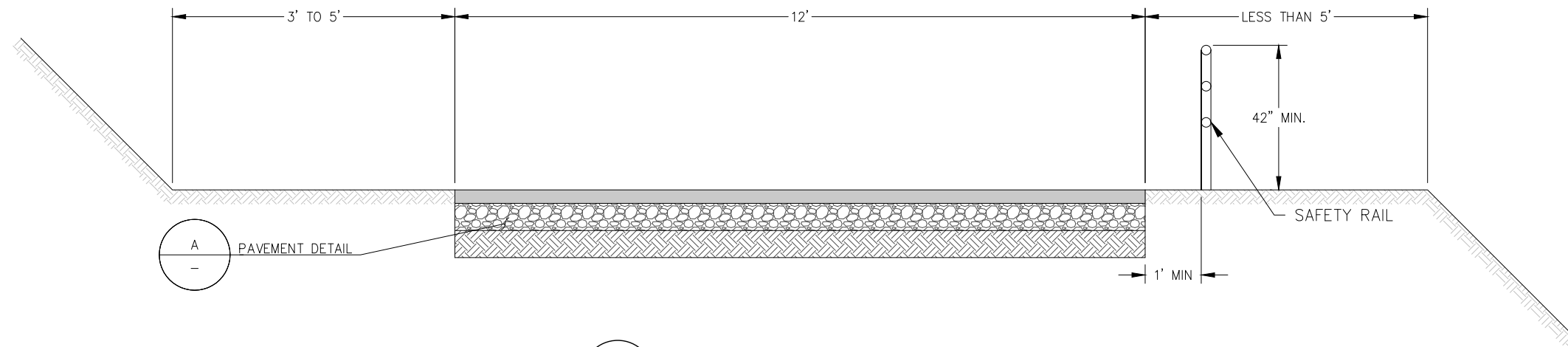
The park trails being proposed for the above referenced project were designed in accordance with AASHTO standards. The proposed park trail will be classified as a Class I multipurpose bike/pedestrian trail. Please see attached figure for specific design criteria that were utilized.

**CONSTRUCTION NOTES**

1. MULTIPURPOSE BIKE/PEDESTRIAN PATH, PER AASHTO STANDARDS, ARE RECOMMENDED TO BE 11' TO 14' WIDE.
  - 1.1. FOR THIS REASON, THE WIDTH OF PAVEMENT HAS BEEN SELECTED TO BE 12'.
2. PROPOSED ALIGNMENT WILL UTILIZE A MAXIMUM OF A 5% RUNNING SLOPE, WHERE FEASIBLE.
  - 2.1. IN AREAS WHERE RUNNING SLOPE EXCEED 5%, BUT NO HIGHER THAN 12%, REST LANDINGS WILL BE PROVIDED.
3. BIKE PATH SHALL UTILIZE A 2% MAXIMUM CROSS SLOPE.
  - 3.1. MINIMUM TRANSITION LENGTH OF 5' FOR EACH 1% CHANGE IN CROSS SLOPE.
4. SHOULDERS SHALL BE 5' WIDE WHERE FEASIBLE, BUT NO LESS THAN 3' WIDE.
  - 4.1. MAXIMUM CROSS-SLOPE OF 1V:6H.
5. AASHTO STANDARDS REQUIRE A MINIMUM PAVEMENT DEPTH OF 6", INCLUSIVE OF PAVEMENT AND AGGREGATE BASE:
  - 5.1. FOR THIS REASON 3" RECYCLED ASPHALT WILL BE PLACED ON TOP OF 6" OF CLASS II RECYCLED AGGREGATED BASE.



**A PAVEMENT DETAIL**  
SCALE: N.T.S.

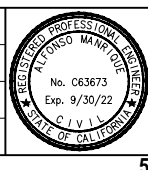


**A AASHTO CLASS I BIKE TRAIL**  
SCALE: N.T.S.

REV	DATE	DESCRIPTION	APPR

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGNED BY <b>XX</b>	PROJECT ENGINEER <b>ALFONSO MANRIQUE</b>
DRAWN BY <b>XX</b>	REG NUMBER <b>C63673</b> EXP DATE <b>09/30/22</b>
CHECKED BY <b>AM</b>	PROJECT NUMBER
DATE <b>4/7/2022</b>	CADD STANDARDS



**cm Consulting Engineers**  
5150 N. SIXTH ST SUITE 124, FRESNO, CA  
P.559.473.1371 F.559.513.8449

**GROVELAND CSD**  
**PARK TRAILS IMPROVEMENTS PROJECT**  
**CLASS I MULTIPURPOSE BIKE TRAIL DESIGN STANDARDS**

DRAWING <b>C-01</b>
SHEET <b>1</b>
OF 1 SHEETS