

**Minutes of the Regular Meeting of the Board of Directors****April 25, 2019****4:00 pm – 6:00 pm****Location: RCD Office**Directors present: TJ Glauthier, Jim Reynolds, Barbara KossyRCD staff present: Kellyx Nelson, Lau Hodges, Joe Issel (phone), Jarrad Fisher (phone), Jim Robins (contractor, via phone)NRCS staff present: Jim Howard**1. Call to Order**

Meeting was called to order at 4:05 p.m.

**3. Introduction of Guests and Staff****2. Approval Agenda**

Item 6.4 was corrected to be a notice regarding a contract amendment that does not require Board action. Reynolds moved to approve the agenda as amended, Kossy seconded. Motion passed unanimously.

**4. Public Comment**

No public comment

**5. Consent Agenda**

Reynolds moved to approve the consent agenda, Kossy seconded. Motion passed unanimously.

**6. Regular Agenda****6.3 Board will consider Resolution 2019-1 Approving the Grant of Funds from the State Coastal Conservancy for Pescadero Marsh Restoration and Resiliency Project.**

- After discussion, Reynolds moved to Approve the Grant Funds from the State Coastal Conservancy for Pescadero March Restoration and Resiliency Project. Kossy seconded. Motion passed unanimously.

**6.4 ~~Board will consider recommendation to~~ [Notification regarding amendment to] contract with cbec eco-engineering for construction support services for the Butano Creek Channel Reconnection and Resiliency Project.**

- Directors discussed cbec eco-engineering's role in overall design of the project, assisting with technical questions throughout the permitting process, construction oversight and closing out the project.
- Glauthier asked if the contract would take the RCD through full construction; Robins responded that it would and that this was the last contract he could foresee.
- Staff requested assistance finding housing in Pescadero for the engineer from June 10 to July 4 for approximately 3 days per week. Kossy offered her spare room in Moss Beach.

## **6.5 Board will consider recommendation to contract with Waterways Consulting Inc. for Alpine Creek Fish Passage Project.**

- There as discussion about the priority of the fish passage barrier, the history of Waterways Consulting on this project, and the contractual partnership with American Rivers, the distinct funding agreements and contracts for design versus construction oversight,
- Reynolds moved to enter into contract with Waterways Consulting Inc. for Alpine Creek Fish Passage Project. Kossy seconded. Motion passed unanimously.
- Discussion continued about the prioritization of barriers to fish passage, the prioritization project the RCD completed, and the state's Passage Assessment Database.

## **6.1 Executive Director's report**

- Nelson distributed an aging summary of payments to vendors (attached below) and explained that between labor compliance and payment delays it was getting harder for contractors to work on RCD projects.
- Staff is working on an overhauled and updated Personnel Manual that will come to the Board soon.
- Staff is deep in the FY20 Budget process. There was discussion of the timeline and process.
- Staff and the Finance Committee are revising the Chart of Accounts to aid in the transparency of RCD finances. Nelson distributed a draft (attached below). The group discussed and provided feedback.
- Adrienne Etherton has agreed to complete Kevin Watt's term. Supervisor will appoint her to serve the remainder of the term and her first meeting will be in May.
- There was discussion about the interest of the Board for Watt to continue serving as an Associate Director.
- There was discussion about others who might serve on the Board.
- The RCD is in the process of hiring for 5 new positions:
  - Adria Arko had hired a Conservation Project Coordinator to aid in the Carbon Farming Program;
  - Issel had hired a Conservation Project Manager to aid in the Habitat Enhancement Program;
  - Brittani Bohlke had made two offers to fill the Water Quality Coordinator position to aid in the Water Quality Program. Bother offers were declined, at least one due to salary. The position had been reposted;
  - Issel had posted a position for a Conservation Program Manger to aid in the new Forestry and Fire Mitigation Program.
- Hodges feels her baby kick for the first time, passed Nelson a note about it and together they interrupt the meeting and share the news with the group. ♥♥♥
- The RCD has bundled the work of Jim Robins with Alnus Ecological under the title of Senior Technical Advisor. There was discussion about employment versus contracting and RCD procurement, as well as the benefits Robins brings to staff and programs at the RCD, and the lost revenue from not charging overhead on his work.
- The white paper that Nelson, Robins, and Sharon Farrell co-authored wrote regarding permitting efficiencies has gotten traction and several people have asked her to present on it. The Golden Gate National Parks Conservancy had made a \$20,000 donation the RCD, with no contract, to pay for Nelson's time on the issue.

- Issel and Fisher attended the Wildlife Conservation Board's meeting and presented on their proposals which were well received.
- Sara Polgar, the RCD's Conservation Program Specialist, wrote a 319 Grant, for the work on Dark Gulch Road, which was ranked top in the state.
- There was discussion about delays in the audits, dissatisfaction with the auditor's speed, and the effects of having no negotiated federal negotiated indirect rate as a result of the delays. No approved indirect rate causes losses in overhead income at the state and federal levels.
- The RCD has been partnering with Puente de la Costa Sur:
  - Translate a 1-pager, into Spanish, about the dredge in Pescadero;
  - Nelson will present about the dredge at Puente with translation technology;
  - RCD will have a summer intern from Puente
  - Disappointing lack of response to summer employment opportunity
- The RCD has several outreach events scheduled:
  - June 11 Pescadero Municipal Advisory Council meeting and ribbon cutting ceremony
  - May 29 Blue Circle at New Leaf on food labeling
  - South Coast Sea Level Rise Vulnerability Analysis
  - Total Daily Maximum Load workshop in Pescadero
  - "Epic Fails" salon with Santa Cruz Mountains Stewardship Network
  - Pet waste outreach at Pacifica Dog surf contest
  - Pacifica Watershed Coalition meeting
- Nelson is working to formalize the annual performance review process for staff.
- RCD staff, in supervisory roles, have begun convening a managers group.
- Nelson selected to the Board of Directors of the California Association of RCDs as part of the first cohort to include District Managers.
- Summer construction season ramping up for the RCD and staff were looking into tools that would provide a comprehensive list of all of the projects. Staff currently use Gantt charts for internal project organization.

## 6.2 Directors' Reports

- Reynolds had nothing to report on.
- Kossy noted the Weed Management Area's *Picnic in the Weeds* was coming up and she was excited the the City of Brisbane had become more involved.
- Glauthier noted that he became the Vice Chair of the Central Coast Region of RCDs.

## 7 Adjourn Meeting

Meeting adjourned at 5:58 p.m.

**Regular Meeting of the Board of Directors**

**April 25, 2019**

**4:00 pm – 6:00 pm**

**Location: 80 Stone Pine Road, Suite 100, Half Moon Bay, CA 94019**

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| <b>1. Call to Order</b>   |
| <b>2. Approval of Agenda</b>  |
| <b>3. Introduction of Guests and Staff</b>  |
| <b>4. Public Comment-</b> The Board will hear comments on items that are not on the agenda. The Board cannot act on an item unless it is an emergency as defined under Government Code Sec. 54954.2.  |
| <b>5. Consent Agenda</b><br>The Board of Directors approves: <ul style="list-style-type: none"> <li><b>5.1.</b> February 21, 2019 Draft Regular Meeting Minutes</li> <li><b>5.2.</b> March 2019 Draft Financial Statements</li> </ul> The Board of Directors receives into record: <ul style="list-style-type: none"> <li><b>5.3.</b> October 17, 2018 California Association of Resource Conservation Districts Central Coast Spring Area Meeting Minutes</li> <li><b>5.4.</b> Notice and Certificate of Determination of Exemption/ Exclusion from Environmental Review for Dark Gulch Creek Crossing Stabilization Project</li> <li><b>5.5.</b> Memo to File regarding Dark Gulch Creek Crossing Stabilization Project Consistency Determination with Section 9284 (L), (I) of Chapter 5, Article 1 of the San Mateo County Ordinance Code</li> <li><b>5.6.</b> Climate Ready San Mateo County handout</li> <li><b>5.7.</b> E-newsletter from the California Association of RCDs dated April 9, 2019: <i>What was CARCD up to in March?</i></li> <li><b>5.8.</b> Notice of Contract for \$71,300 with Storesund Consulting for Engineering Services for San Gregorio Creek Streamflow Enhancement Project at Klingman-Moty Farm</li> <li><b>5.9.</b> Addendum to the Initial Study/Mitigated Negative Declaration (SCH No. 2018052007) for the Butano Creek Channel Reconnection and Resilience Project</li> </ul> Media: <ul style="list-style-type: none"> <li><b>5.10.</b> The Daily Journal article dated March 18, 2019: <i>Long-sought creek restoration in Pescadero takes major step</i></li> <li><b>5.11.</b> Half Moon Bay Review article dated March 27, 2018: <i>Creek restoration planned for Pescadero area</i></li> </ul> |
| <b>6. Regular Agenda</b> <ul style="list-style-type: none"> <li><b>6.1.</b> Executive Director Report</li> <li><b>6.2.</b> Directors' reports</li> <li><b>6.3.</b> Board will consider Resolution 2019-1 Approving the Grant of Funds from the State Coastal Conservancy for Pescadero Marsh Restoration and Resiliency Project.</li> <li><b>6.4.</b> Board will consider recommendation to contract with cbec eco-engineering for construction support services for the Butano Creek Channel Reconnection and Resiliency Project.</li> <li><b>6.5.</b> Board will consider recommendation to contract with Waterways Consulting Inc. for Alpine Creek Fish Passage Project.</li> </ul>   |
| <b>7. Adjourn Meeting</b><br>The next Regular Meeting of the Board of Directors will be May 16, 2019.   |

*Public records that relate to any item on the open session agenda for a regular board meeting are available for public inspection. Those records that are distributed less than 72 hours prior to the meeting are available for public inspection at the same time they are distributed to all members, or a majority of the members of the Board. The Board has designated the San Mateo RCD office, located at the address above, for the purpose of making those public records available for inspection.*



**Balance Sheet**

As of March 31, 2019

|   | <u>Mar 31, 19</u>          |
|---|----------------------------|
| <b>ASSETS</b>   |                            |
| Current Assets  |                            |
| Checking/Savings                                      |                            |
| 1030 · Checking Account (5269)                        | 1,333,871.21               |
| 1031 · Restricted State Funds (5012) (Butano Channel) | 3,018.32                   |
| 1032 · Operating Reserve (0202)                       | 148,767.89                 |
| Total Checking/Savings                                | 1,485,657.42               |
| Accounts Receivable                                   |                            |
| 1200 · Accounts Receivable                            | 2,106,682.47               |
| Total Accounts Receivable                             | 2,106,682.47               |
| Total Current Assets                                  | 3,592,339.89               |
| <b>TOTAL ASSETS</b>                                   | <b><u>3,592,339.89</u></b> |
| <b>LIABILITIES &amp; EQUITY</b>                       |                            |
| Liabilities   |                            |
| Current Liabilities                                   |                            |
| Accounts Payable                                      |                            |
| 2100 · Accounts Payable                               | 540,215.49                 |
| Total Accounts Payable                                | 540,215.49                 |
| Credit Cards  | 4,140.77                   |
| Other Current Liabilities                             |                            |
| 2300 · Accrued Time Off                               | 43,193.34                  |
| 2400 · Deferred Revenue                               | 1,912,428.21               |
| Total Other Current Liabilities                       | 1,955,621.55               |
| Total Current Liabilities                             | 2,499,977.81               |
| Long Term Liabilities                                 |                            |
| 2500 · Recoverable Grants                             | 200,000.00                 |
| Total Long Term Liabilities                           | 200,000.00                 |
| Total Liabilities                                     | 2,699,977.81               |
| Equity  |                            |
| 3500 · Net Assets                                     | 1,160,240.47               |
| Net Income  | -267,878.39                |
| Total Equity  | 892,362.08                 |
| <b>TOTAL LIABILITIES &amp; EQUITY</b>                 | <b><u>3,592,339.89</u></b> |

**San Mateo Resource Conservation District**  
**Profit & Loss**  
July 2018 through March 2019

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|                               | Jul '18 - Mar 19   |
|-------------------------------|--------------------|
| Ordinary Income/Expense       |                    |
| Income                        |                    |
| Contracts                     | 4,975,306.21       |
| Donations                     |                    |
| Annual Appeal Donation        | 16,570.07          |
| Donations - Other             | 12,464.00          |
| Total Donations               | 29,034.07          |
| Interest                      | 1,673.53           |
| Property Sale Proceeds (SMC)  | 105.13             |
| Property Tax                  | 79,234.08          |
| SMC Operating Support         | 128,742.11         |
| Total Income                  | 5,214,095.13       |
| Gross Profit                  | 5,214,095.13       |
| Expense                       |                    |
| Communications                | 5,476.07           |
| Equipment                     | 4,664.85           |
| Membership-Dues-Subscriptions | 3,324.00           |
| Organizational                | 47,196.17          |
| Personnel                     | 693,688.48         |
| Professional Development      | 3,998.00           |
| Project Implementation        | 4,907,652.71       |
| Rent                          | 40,092.60          |
| Software                      | 2,248.28           |
| Supplies                      | 742.88             |
| Travel-Meals-Meetings         | 6,351.43           |
| Total Expense                 | 5,715,435.47       |
| Net Ordinary Income           | -501,340.34        |
| Net Income                    | <b>-501,340.34</b> |



# California Association of Resource Conservation Districts Central Coast Spring Area Meeting

**Nature's Touch Harvest & Nursery  
Templeton, CA**

October 17, 2018 —8:30 a.m. to 2:00 p.m.

## **MINUTES**

### **Present:**

#### **RCD Board members:**

Brent Plemmons, RCDMC; Jim McKenna, RCDSCC; Chuck Pritchard, US/LTRCD; George Kendall, US-LTRCD; Leroy Scolari, CRCD; John Hendra, RCDSMM; David Robledo, LPRCD

#### **Others:**

Whit Haraguchi, NRCS Capitola; Emma Chow, NRCS; Hilary Phillips, NRCS; James Booth, NRCS, Hollister; Paul Robins, RCDMC; Erika Boyland, NRCS Salinas; Kay Joy Barge, NRCS, Salinas; Celine Morales, NRCS Santa Maria; Anna Olsen, CRCD; Devin Best, US-LTRCD; Jim Howard, NRCS, Half Moon Bay; Larissa Clarke, CSLRCD; Erin White, US-LTRCD; Audrey Weichert, US-LTRCD; Andrew Johnson, US-LTRCD; Kristen Murphy, CARCD; Lisa Lurie, RCDSCC;

Devin Best, of the Upper Salinas Las Tablas RCD gave a brief welcome and had a round of introductions

Minutes-Leroy motioned and Chuck seconded to accept minutes.

David provided a Treasurer's Report:

- Balance \$2,403.37 last meeting – Jim McKenna motioned and seconded by Brent to accept minutes.

Brent announced that the Central Coast Area RCD President Kevin Watt has moved away and therefore the CC Area RCD has the position vacant. Since nobody volunteered to replace Kevin it was suggested by Kay Joy to recruit each of our RCD boards of directors and ask for a volunteer. One of the duties of the president is to attend three CARCD meetings in Sacramento throughout the year.

### **Partner Reports:.**

Kay Joy Barge, the Assistant State Conservationist for Field Operations, Area 2, communicated the following:

- No new Farm Bill yet. Uncertainty reason for one sign-up for NRCS cost-share program.
- November 16, 2018 NRCS will be sister to Forest Service Agency.
- EWP-Santa Monica – Started this week at Carpinteria Town.
- Forestry-NRCS ramping to hire a Forester.
- Matching with NRCS with funds from RCDs. Monterey County RCD is corroborating with 6 RCDs surrounding Monterey County.
- Cultural Resources-Archeologist has been hired by the name of Emily in Novato. She comes from CALTRANS.
- Rangeland & Soil Health- A NRCS State Team toured Marin and Sonoma Counties to inspect current rangeland soil health.
- NRCS Vacancies-365 positions are down to 205.
- CPP & CSP are in limbo.

Kristen Murphy from CARCD;

- Karen could not be present. She is attending many State meetings.
- Two million from DOC for two positions at CARCD.
- Up to \$10 million from DOC if Proposition 68 passes.

- CARCD supports Prop 3 in November, \$10 million for CARCD if bond passes.
- \$2 million from CDFA for weed management. May be short for tree mortality if included.
- CSG-Tasha and Mark left CSG and will start own company. CARCD will go with them.
- CARCD has new web site. CARCD happy to promote RCD activities, projects, etc.
- Kiko will run the Communication Activity Program.
- The breakout sessions at the CARCD conference in San Diego had heavy emphasis on forestry and fire.
- At the new CARCD website there are five resolutions:
  1. Restructuring Board to 18 members and 4 Executive Directors.
  2. Strategic Partners-3 external partners.
  3. CARCD Manager and Executive Directors to sit on Board.
  4. CARCD ????
  5. Eliminate NARCD Reg Chair representation.
- Cannabis Feasibility Study to be done by CALFire.
- CARCD will let RCDs be independent on the cannabis farming practice.

An informative and lengthy discussion ensued on forestry: its management to prevent or reduce the fire threats; Universities will pumped up Forest Management in lieu of Timber;

Devin Best has been providing technical support on BMPs for Cannabis agriculture. Devin introduced to the attendees a Project Trekker system that that can be used for leveraging grant funding and in Website can demonstrate RCD's work for CARCD to show case to the Legislative people. Paul Robins has also been using similar trekking system in Monterey County RCD. Project Trekker can be used at the State, Regional, and Local levels.

### **Breakout Sessions:**

The attendees were separated into four groups. The following four steps permitted everyone an opportunity to speak and everyone had input:

Step 1: Establish who will be the Facilitator, Time Keeper and Notetaker.

Step 2: Introduce yourself, where you live, how long you've been involved/partnered with the RCDs.

Step 3: Discuss the three topics.

- a. Provide a board best practice
- b. Briefly describe one accomplishment achieved in the past year
- c. Identify one challenge your RCD faces

Step 4: Review input and synthesize information to present to larger group

To whom ever wanted to go, a tour of Three Bridges Oak Preserve Hike was organized. Otherwise, the meeting was adjourned at 2:00 p.m.

*Minutes taken by David Robledo*

*e-mail: dgriego@robledo.com*

*Cell: (408)607-1229;*

## Memorandum

Date: April 18, 2019  
To: Board of Directors  
From: Kellyx Nelson  
Re: Notice of Determination of Exemption from Environmental Review for Dark Gulch Creek Crossing Stabilization Project

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As the lead agency for the Dark Gulch Creek Crossing Stabilization Project, the San Mateo RCD has the principal responsibility for carrying out the project and must ensure its compliance with CEQA or determine whether it is subject to the exemptions listed in CEQA Guidelines section 15300.2.

When relying on an exemption, it is prudent that the lead agency support its decision with evidence and analysis, as well as creating an administrative record of its considerations. After approving an exempted project, the agency may, but need not, file a notice of exemption (NOE). It has been the practice of the San Mateo RCD to file NOEs with the State of California via the Office of Planning and Research and with the County of San Mateo via the County Clerk.

The attached *Certificate of Determination of Exemption/ Exclusion from Environmental Review* is the NOE for the Dark Gulch Creek Crossing Stabilization. It provides a description of the project as well as a determination of its consistency with the categorical exemptions to CEQA.

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**CERTIFICATE OF DETERMINATION OF EXEMPTION/EXCLUSION FROM ENVIRONMENTAL REVIEW**

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Project Title: Dark Gulch Creek Crossing Stabilization Project

Project Location: Dark Gulch Creek crossing on Old Haul Road is located in Pescadero Creek County Park Complex, near Loma Mar, San Mateo County, California

Assessor's Parcel Numbers: 084-130-110 and 084-130-120

City and County: Pescadero, San Mateo County

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**Description of Nature and Purpose of Project:**

The San Mateo Resource Conservation District (RCD), in partnership with San Mateo County Parks Department, proposes to improve habitat conditions and water quality in the Pescadero Creek Watershed for the benefit of native fish and other species by reducing sediment sources from Old Haul Road into tributaries of Pescadero Creek. Pescadero Creek was listed in 1998 by the San Francisco Bay Regional Water Quality Control Water Board as impaired by excess sediment for fish habitat, including listed populations of coho salmon (*Oncorhynchus kitsutch*) and native steelhead trout (*Oncorhynchus mykiss*).

The project addresses a failing crossing on Old Haul Road at Dark Gulch Creek, a tributary to Pescadero Creek which is 0.06 miles downstream from the crossing. Erosion at the Dark Gulch crossing is shedding an estimated 600 cubic yards of soil annually. In addition, the site is at risk for complete failure, which would result in delivery of as much as 37,000 cubic yards of soil into the Pescadero Creek network. A catastrophic failure would result in significant damage to the downstream channel, streamside habitat, downstream assemblages of native fish and wildlife, and possible impacts to structures (e.g. bridges). Furthermore, catastrophic failure of the crossing would result in loss of a critical piece of infrastructure, Old Haul Road, used for emergency response, fire-fighting, and recreation. The proposed project removes the eroding crossing and collapsed box culvert, and reconstructs a stable crossing with drainage features that have been designed for proper, long-term function that prevents future erosion. Stabilizing the crossing will also ensure that crucial vehicle access is maintained on Old Haul Road for recreation, administrative and emergency purposes for San Mateo County Parks Department and CalFire.

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**Name of Person, Board, Commission or Department Proposing to Carry Out Project:**

San Mateo Resource Conservation District, 80 Stone Pine Road, Suite 100, Half Moon Bay, CA 94019

**EXEMPT STATUS:**

☒ Categorical Exemption, Class 33 [CEQA State Guidelines, Section 15333]

☒ Categorical Exemption, Class 02 [CEQA State Guidelines, Section 15302]

**REMARKS:** See next page.

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Contact Person: Sara Polgar Telephone: (650) 712-7765

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I do hereby certify that the above determination has been made pursuant to State and Local requirements.

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Kellyx Nelson, Executive Director  
San Mateo Resource Conservation District

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Date of determination

## REMARKS:

The project will reconstruct the failing crossing and culvert at Dark Gulch creek with a stable crossing and properly-sized culvert drainage. It is exempt under Article 19, Sections 15300 to 15333, which lists classes of projects that have been determined not to have a significant effect on the environment and which shall, therefore, be exempt from the provisions of CEQA as categorical exemptions. This project is exempt under Class 33, identified in "Section 15333. Small Habitat Restoration Projects." Class 33 consists of projects not to exceed five acres in size to assure the maintenance, restoration, enhancement, or protection of habitat for fish, plants, or wildlife. The areas directly impacted (both temporarily and permanently) in this project encompass less than 5 acres and the project directly improves conditions in Pescadero Creek for fish and wildlife by stopping chronic sediment delivery (approximately 600 cubic yards, annually) and preventing as much as 37,000 cubic yards of future sediment delivery from impairing habitat. The project is additionally, and independently, exempt under Class 02, "Section 15302. Replacement or Reconstruction." Class 02 consists of replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced.

Pescadero Creek is listed under the Clean Water Act Section 303(d) as impaired by sediment, harmful to salmonids including steelhead trout and coho salmon. The State Water Resources Control Board has developed a Total Maximum Daily Load (TMDL) to address the sediment impairment, which directly references this project to help achieve its goals for source control and protection of downstream public trust resources. In addition to the 303d listing and TMDL, NOAA Fisheries has designated Pescadero Creek as critical habitat for Central California coast steelhead (NMFS 2005) and is listed as a Phase 1 expansion area on the Central California Coast Coho Recovery Plan (NMFS 2012). U.S. Fish and Wildlife Service (USFWS) designated the project area as critical habitat for two federally-threatened species: California red-legged frog (*Rana draytonii*) and marbled murrelet (*Brachyramphus marmoratus*) and (USFWS 2010; USFWS 2011). Of these four federally listed species, the two salmonids and the red-legged frog will directly benefit from this project.

Old Haul Road was built along the south side of Pescadero Creek as a railroad grade in the early to mid-1900s for timber operation. (Figure 1) It was constructed using what would today be considered primitive construction technology, without concern for water quality impacts or long-term stability. The road crosses multiple tributaries to Pescadero Creek, and at these stream crossings, large crib logs were used to buttress and build up large fill embankments, and to form box culverts to convey stream flow through the bottom of the fill embankment. (See Figure 2)

Over the past 70 to 100 years the logs that make up the structural integrity of the crossings have decayed and the box culverts that convey stream flow through the fill embankment have collapsed to varying degrees. At Dark Gulch, the largest of these crossings, the original crib logs have decayed and collapsed and infilled the watercourse.



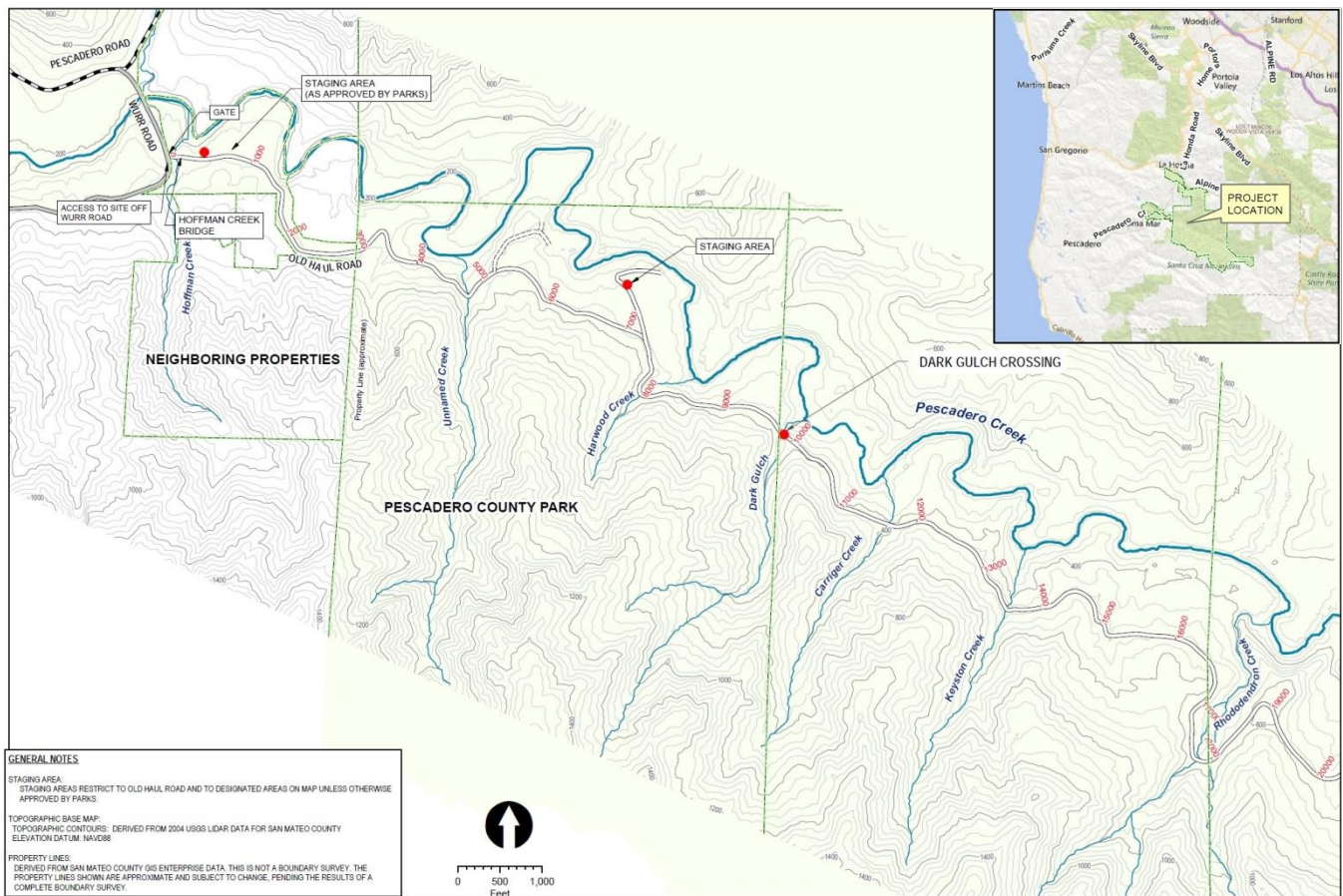


Figure 1. Project location map.

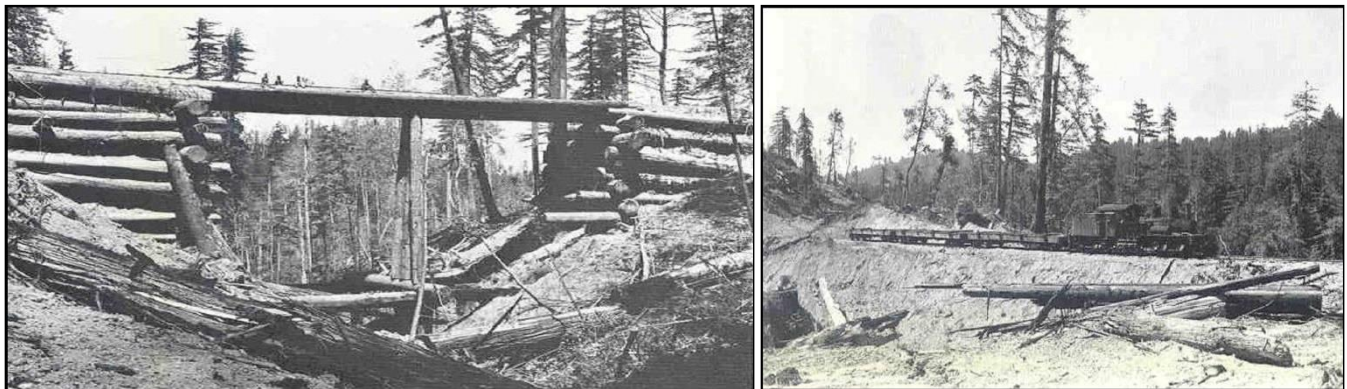


Figure 2. Rail crossings on Old Haul Road circa 1940s. Left, crib log box culvert. Note the men sitting on top of the crossing. (Santa Cruz Lumber Company photo (1943)). Right, example of large fill embankment. (Jack Gison photo (1947)). Both photos referenced in Dwight Ennis, <http://www.santacruzlumberco.com/index1.htm>



Survey mapping and subsurface investigations indicate that the Dark Gulch crossing has approximately 37,000 cy up to 69 feet deep. Presently, runoff flows and percolates through soil pipes and small cavities in the crossing fill, and erosion around the crib logs and the collapse of cavities has resulted in sediment delivery to the stream and the formation of cone shaped “sinkholes” on the ground surface, as well as several gullies and debris flow failures on both the up and downstream embankments. Most recently, failures occurred in 2015 and 2017. Sinkhole formation has also led to tension cracks, fissures, and overturned trees rooted in the fill, adding to chronic erosion because of the barren soils that are being continuously produced and impacted by seasonal rainfall. The crossing has a high potential for continued slow progressive failure and if no action is taken, excess sediment delivery 0.06 miles downstream to Pescadero Creek (currently estimated at 600 cy/yr) will increase, degrading water quality and aquatic habitat, and potentially impacting fisheries. There is also a risk of catastrophic failure of the crossing which would result in significant damage to the downstream channel, streamside habitat and other structures (e.g. bridges).

To establish a stable road prism across the drainage, allow for the safe conveyance of stream flow through the crossing, and substantially reduce the risk of the crossing failure and sediment delivery to the stream network the project will:

1. remove the entire crossing, including all unstable fill material;
2. install a large diameter culvert; and
3. reconstruct a smaller crossing embankment with engineered fill.

Approximately 37,360 cy of fill material will need to be excavated from the Dark Gulch crossing, and approximately 22,725 cy of approved clean fill (i.e., non-deleterious material) from the excavation will be used for engineered fill to reconstruct the crossing. This new crossing will be relocated approximately 50 feet upstream with the road lowered by about 15 feet to reduce the size of the crossing. Crossing reconstruction includes installation of a new plastic (HDPE) or heavy gauge steel culvert (60” to 72” inch diameter by 260 foot long) at native channel grade (16%). A rock energy dissipater will be installed at the culvert outlet; a headwall that is rock-armored to the top of the pipe inlet; and a trash rack/pole upstream of the culvert inlet. Installation of final erosion control measures will include drainage dips to hydrologically disconnect the road from Dark Gulch stream. A total of 3.1 acres at the crossing site and a stockpile site will be temporarily disturbed for the crossing stabilization and culvert replacement construction work. (See attached drawings.)

The project does not have the potential to degrade the quality of the environment and will not substantially reduce the habitat or threaten to eliminate a plant or animal community; substantially reduce the number or restrict the range of any endangered, rare or threatened species; or eliminate important examples of the major periods of California history or prehistory.

Additional requirements of the Class 33 exemption are addressed below:

*(a) There would be no significant adverse impact on endangered, rare or threatened species or their habitat pursuant to section 15065.*

Project activities will not result in a significant impact on endangered, rare or threatened species or their habitat, and implementation of the proposed project will result in improved habitat conditions



*Figure 3. Example of crossing failure: a sinkhole collapsed on the downslope side of Dark Gulch crossing (2015).*

for aquatic species, including steelhead, coho salmon and California red-legged frog. Furthermore, project activities have been designed to avoid and minimize effects on sensitive species and habitats.

The project site is located 0.06 miles upstream of Pescadero Creek on the Dark Gulch tributary. Pescadero Creek provides suitable habitat for federally threatened steelhead (*Oncorhynchus mykiss irideus*) or endangered coho salmon (*Oncorhynchus kisutch*) populations. However, Dark Gulch is a semi-permanent stream that has not been identified as suitable habitat for, nor as having presence of steelhead or coho. To avoid impacts to Pescadero Creek, Best Management Practices (BMPs) are incorporated into the design and are required by project permits, including the National Marine Fisheries Service Programmatic Biological Opinion for fish restoration projects (NMFS 2006). Implementation of these BMPs ensures habitat for special-status fish, including critical habitat for steelhead, is not adversely affected during construction of the project. Culvert replacement design and construction will follow the CA Department of Fish and Game guidelines in the California Salmonid Stream Habitat Restoration Manual (Flossi et al 2010) and guidelines associated with the sediment TMDL for the Pescadero-Butano Watershed (Frucht et al 2018).

Project activities have been designed to avoid and minimize effects on federally threatened marbled murrelet (*Brachyramphus marmoratus*). The project would not result in removal of suitable nesting habitat or result in direct permanent effects on the species habitat. Repair of the Dark Gulch stream crossing at Old Haul Road would not have adverse effects on federally designated critical habitat for marbled murrelet. Impacts on this species would potentially occur during the nesting season (March 24 to September 15) which is when the species could be present in the area. Potential impacts would be temporary, lasting for the duration of construction activities (one season), and would be indirect as a result of construction noise which could impact individual murrelets through shifts in flight patterns if this noise is newly introduced during the nesting season and individuals are not accustomed to it. Beginning before to the start of nesting season construction noise will be played at the Dark Gulch site at dawn and dusk when murrelets could be flying to/from nests in the area, such that they are acclimated to the noise by the time construction begins.

Temporary and localized impacts to sensitive habitats will be minimized by conducting work during the dry season (June 15 - October 31), and by implementing construction BMPs. This will minimize the potential for erosion and any construction-related effects on downstream aquatic habitat. Preconstruction nesting bird surveys will be conducted within the project site by a qualified biologist. Additionally, qualified biologists will conduct pre-construction surveys for threatened, rare and endangered species that could occur in the vicinity, including California red-legged frog (*Rana draytonii*), foothill yellow-legged frog (*Rana boylei*), and San Francisco garter snake (*Thamnophis sirtalis tetrataenia*); even though these species are not expected to occur due to the dense riparian vegetation and canopy cover in the project area. If active nests or sensitive species are present established (i.e. predefined) measures will be implemented. Measures include: establishing non-disturbance buffers for work activities; moving or transplanting by a qualified biologist or botanist per specifications of project permits; temporary work stoppage to allow individuals to leave; and spot monitoring by a qualified biologist who can stop construction if needed to avoid or minimize impacts.

(b) *There are no hazardous materials at or around the project site that may be disturbed or removed.*

No hazardous materials are known to the project site or project vicinity.

(c) *The project will not result in impacts that are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.*

The project will not result in adverse impacts that are significant when viewed in connection with effects of past, current and probable future projects. The project corrects problems associated with the work done at the site nearly a century ago. There are no overlapping projects in the vicinity that would have environmental impacts to which the project would contribute to a cumulative adverse

impact. The project will not adversely affect farmland, public services, geologic stability, soils, or increase health risks. The project will not result in impacts that are significant when viewed in connection with the effects of potential future projects, which would result in additional benefit to Pescadero Creek and incorporate the same Best Management Practices and permit requirements.

Furthermore, Section 15300.2(c) of CEQA states, "A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances." There are no unusual circumstances surrounding the proposed project that would suggest a reasonable possibility of a significant environmental effect.

The Class 02 exemption does not include additional requirements, but it does specify that the new structure will have substantially the same purpose and capacity as the structure replaced. The reconstructed crossing at Dark Gulch creek will serve the same purpose and it will maintain (i.e. not increase) access along Old Haul Road.

#### **REFERENCES:**

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National Marine Fisheries Service (NMFS). 2006. Biological Opinion. Permitting of Fisheries Restoration Projects within the Geographic Boundaries of NMFS' Santa Rosa, California, Field Office. Issued to USACE, June 21. File Number 151422SWR2006SR00190:JMA.

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U.S. Fish and Wildlife Service (USFWS). 2011. Marbled Murrelet - Critical Habitat, USFWS [ds157]. <http://bios.dfg.ca.gov>

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Climate Ready San Mateo County (SMC) will help us better prepare the County in the face of a changing climate. This initiative will expand our community's understanding of climate-related risks from heat, wildfires, intensifying rainfall and severe storm events and develop community-driven strategies for climate change preparedness. By working together, planning ahead and being better informed we can more effectively prepare to protect our communities, natural resources, essential services and infrastructure, and most importantly our physical and mental well-being and health.

## Climate Ready SMC Collaborative

To foster collaboration and collectively find solutions to the climate change challenge, leaders from local government, non-profit and community-based organizations, businesses, and other key partners are invited to join in forming the Climate Ready San Mateo County (SMC) Collaborative. With your support, this Collaborative can become a venue to:

- Better understand current challenges and future risks to our residents, places and infrastructure from climate hazards such as rising temperatures and extreme heat, increasing wildfires, intensifying rainfall and storms.
- Learn about, develop and apply policies, projects and programs on the ground here in San Mateo County to help us better plan and prepare.
- Develop, pilot, and seek expanded funding for community-driven strategies and approaches in San Mateo County communities.
- Identify effective approaches to inform and engage our communities and welcome their leadership in responding to these risks and opportunities.
- Encourage dialogue, foster coordination and build political support and leadership to empower shared action on climate adaptation.



## Get Involved

**Partner and lend your leadership and expertise to this Initiative.** This initiative requires input and participation from a wide range of community leaders, technical disciplines and subject matter experts. We invite your organization to participate as a leading member of the Climate Ready SMC Collaborative to develop the Collaborative vision, goals and agenda. Your participation will help assure the Collaborative is responsive and supportive of your community's needs and will strengthen our capacity to protect our people and manage our valuable resources responsibly.

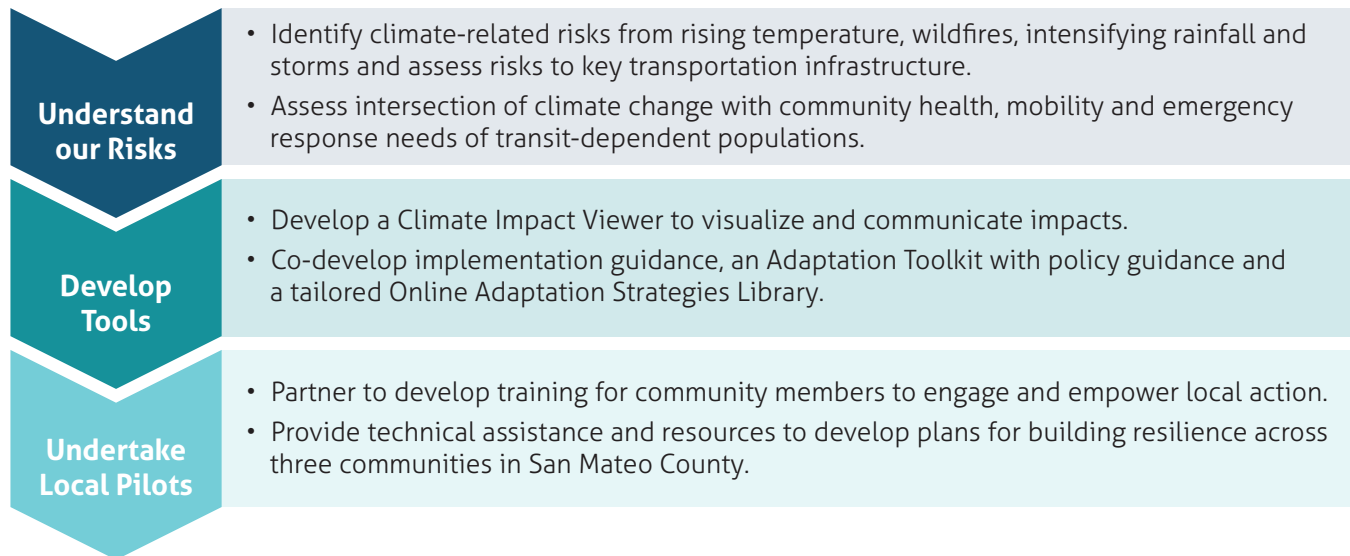




## Upcoming Engagement Opportunity

The Collaborative can be a place for each of us to inform – and to seek support for key San Mateo County-based cross-sector projects. One such example is the “MAINSTREAMING CLIMATE RESILIENCE IN SAN MATEO COUNTY” Project funded by the California Department of Transportation Adaptation Planning (SB-1) Grant. This project runs through February 2020 and presents the opportunity for you to provide early guidance and lend your leadership and expertise in defining the direction for this body of work to make the research, findings and tools relevant to your current and future efforts.

### Key Project Outcomes | Timeline (January – February 2020)



## Get Involved

### Participate in ongoing engagement activities.

Visit <https://www.smcsustainability.org/climate-ready> and share your stories and experiences with a range of climate hazards. Drop a pin on the map and show us the areas of concern and access future event and project information.

### Partner with us.

Help organize a presentations or event in your neighborhood or community to raise awareness and seek input.

### Join our listserv.

Visit <https://www.smcsustainability.org/climate-ready> to join the mailing list to stay informed and engage.

### Want to know more?

Visit <https://www.smcsustainability.org/climate-ready> to learn more about Climate Ready SMC.

### Questions?

Please contact Jasneet Sharma, [jsharma@smcgov.org](mailto:jsharma@smcgov.org)

**CLIMATE  
READY**  
SAN MATEO COUNTY



### Memorandum

Date: April 18, 2019  
To: Board of Directors  
From: Kellyx Nelson  
Re: Notice of Contract for \$71,300 with Storesund Consulting for Engineering Services for San Gregorio Creek Streamflow Enhancement Project at Klingman-Moty Farm

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**Storesund Consulting** was pre-approved by the Board of Directors in January 2016 to design agricultural and domestic water storage and system improvements after a public solicitation process to identify a group of qualified and cost-competitive firms for a range of potential projects. The RCD subsequently contracted with Storesund Consulting to complete engineered designs for an 18.5 acre-foot pond at Klingman-Moty Farm in San Gregorio. That work was completed and the contract expired.

The January 2016 decision by the Board of Directors requires RCD staff to report any contract or cumulative contracts exceeding \$50,000. This memorandum is notification that the RCD is contracting with Storesund Consulting for \$71,300 for additional engineering services related to construction of a pond at Klingman-Moty Farm, such as preparation of a storm water pollution prevention plan, conducting onsite observations, providing compaction testing, and submitting an as-built survey.

**Addendum  
to the  
Initial Study/Mitigated Negative Declaration  
(SCH No. 2018052007)**

**Previously Adopted by the Lead Agency  
San Mateo Resource Conservation District**

**for the  
Butano Creek Channel Reconnection and  
Resilience Project**

**February 2019**

## 1. Introduction

The San Mateo Resource Conservation District (SMRCD) has prepared this addendum to comply with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.). SMRCD is a lead agency under CEQA with respect to the Butano Creek Channel Reconnection and Resilience Project (Project).

On June 27, 2018, SMRCD adopted a Mitigated Negative Declaration (MND) (State Clearinghouse No. 2018052007) pursuant to CEQA for the Project. The Project involves excavating approximately 46,300 cubic yards of sediment from approximately 7,400 linear feet of Butano Creek. Excavation of the creek would extend from upstream of the Pescadero Creek Road bridge to approximately 300 feet downstream of the confluence with the Butano Channel, near a pedestrian bridge and existing marsh control structure (i.e., sandbag dam) in Pescadero Marsh Natural Preserve. Other Project elements include augmenting an existing berm on private property upstream of Pescadero Creek Road; enhancing an existing berm at two locations in Butano Marsh along the reconnected Butano Creek; improving the existing marsh control structure; and beneficially reusing sediment removed from Butano Creek to improve water quality conditions and reduce the severity of fish kills.

Since the MND was adopted, SMRCD has refined the design of the proposed marsh control structure and added a large woody debris structure as part of the berm augmentation at the upstream end of the Project site. These proposed refinements to the Project are considered modifications to the Project, in that they provide more detail compared to the information available at the time of preparation of the Initial Study (IS)/MND. The purpose of this addendum is to document SMRCD's additional evaluation of the Project and proposed activities to determine whether the environmental effects of the Project modifications would result in new or more severe impacts than what were previously evaluated in the IS/MND.

## 2. Statutory Background

Under CEQA, an addendum to an approved MND is needed if minor technical changes or modifications to the proposed project occur (CEQA Guidelines Section 15164). An addendum is appropriate only if these minor technical changes or modifications do not result in any new significant impacts or a substantial increase in the severity of previously identified significant impacts. The addendum need not be circulated for public review (CEQA Guidelines Section 15164[c]); however, an addendum is to be considered along with the adopted MND by the decision making body prior to making a decision on the project (CEQA Guidelines Section 15164[d]).

## 3. Description of Project Modification

As noted above, SMRCD has proposed two minor technical changes subsequent to adoption of the IS/MND. The changes affect the analysis for the berm augmentation located upstream of Pescadero Creek Road and the marsh control structure upgrades (as described in Chapter 2, Section 2.3 of the IS/MND). All other elements proposed within the IS/MND remain unchanged. A summary of these project elements as described in the IS/MND is presented in



Section 3.1 below. The proposed modifications to these Project elements are discussed in Section 3.2.

### 3.1 Original Project Elements

#### ***Berm Augmentation Upstream of Pescadero Creek Road***

As described in Section 2.3.2 of the IS/MND, the SMRCD proposes to augment an existing berm on the right (east) bank of the Butano Creek channel using sediment excavated from Butano Creek upstream of Pescadero Creek Road. This berm is located approximately 1,800 feet upstream of Pescadero Creek Road at a point where the right (eastern) valley side slopes (i.e., the valley width begins to increase). The berm augmentation would increase the controlling elevation of the right floodplain in an area that currently serves as a preferential overbank flow path.

#### ***Butano Marsh Control Structure Upgrade***

The SMRCD also proposes incorporating enhancement measures to the existing marsh control structure, which is located at the downstream end of Lower Butano Marsh in Butano Channel just upstream from the channel's confluence with Butano Creek. As described in Section 2.3.4 of the IS/MND, such enhancements were to include covering the structure with durable geotextile fabric and articulated concrete blocks.

### 3.2 Modified Project Elements

#### ***Engineered Log Jam at Berm Augmentation Upstream of Pescadero Creek Road***

Since publication of the IS/MND, SMRCD proposes to construct an engineered log jam adjacent to the augmented berm within the Butano Creek channel. The Project design team determined that the engineered log jam in combination with the proposed berm improvements would increase sediment deposition and duration of floodplain inundation upstream of the berm. The engineered log jam would be constructed with four logs ranging in length from 25 to 35 feet. One log would be a 36-inch diameter log with its root wad attached, while the other three logs would be 24 inches in diameter. The logs would be attached together and would be ballasted with four large rocks. **Attachment A** (100% design plans for the Project) includes plan and profile views of the proposed engineered log jam.

The log jam is intended to further restrict the flow in Butano Creek past this feature and the adjacent berm during high flow events. It would promote lower velocities and higher depths upstream, enhancing sediment deposition of the berm, and would also extend floodplain duration upstream providing enhanced habitat for native aquatic species. The engineered log jam is also expected to provide local scour and promote a larger log jam to form from natural, locally sourced wood. Construction of the engineered log jam would occur in summer to fall of 2019.

#### ***Modified Design of Butano Marsh Control Structure Upgrade***

After the IS/MND was published, the SMRCD considered other design options for the marsh control structure in lieu of covering the existing structure with geotextile fabric and articulated concrete blocks as described in the IS/MND. SMRCD now proposes to replace the existing structure with one comprised of rock and large wood. The rock would consist of half-

ton riprap placed in a similar configuration as the current sandbag dam. The design includes three large logs placed within the structure (i.e., covered largely by rocks) with root wads facing out along the downstream or upstream face. The large wood is intended primarily for aesthetic purposes but would likely provide cover habitat as well. Voids in the large rock would be filled with crushed rock within the structure's interior and soil for the outer 1-foot of rock to support establishment of marsh vegetation. The crushed rock is intended to inhibit the permeability of the structure which would be enhanced over time as additional mineral and organic material further clogs the pores of the structure.

The controlling crest elevation of the new marsh control structure would be set to approximately 5.9 feet (NAVD88) for the central 10 feet of the crest and would taper up by approximately 1 foot at the lateral margins of the structure. The 5.9 feet controlling elevation would limit tidal interaction between the marsh and the lagoon but would still allow spring higher high tides to enter the marsh. Attachment A includes plan and profile views of the proposed marsh control structure.

Scalped marsh vegetation with relatively intact root mats would be placed along the upstream face of the structure and along upward sloping margins of the crest, leaving a 10-foot wide central flow path along the crest and a more vegetated appearance elsewhere. The California State Parks Department (State Parks) may also elect to transplant marsh vegetation into the voids in the future to accelerate establishment of vegetation in areas that have relatively limited and infrequent scour events. Over time, the structure is expected to blend in with the surrounding landscape.

As with the original project, the marsh control structure would be constructed in summer to fall of 2019.

## 4. Impact Analysis

Preparation of an addendum to an IS/MND requires a brief explanation of the decision not to prepare a subsequent MND supported by substantial evidence (CEQA Guidelines Section 15164[e]). Potential environmental issues associated with the minor modification of project elements are summarized below.

- **Aesthetics:** The engineered log jam would not be publicly visible and therefore would not result in any adverse effects on scenic views. The modified marsh control structure would have a more natural appearance in comparison to the design evaluated in the IS/MND (articulated concrete blocks with geotextile fabric). As noted above, the modified marsh control structure would be comprised of rock and wood with vegetated mats placed on the upstream face of the structure. Over time, as the vegetation grows, the marsh control structure would blend in with the surrounding natural landscape. This Project modification would result in a beneficial effect on aesthetics and therefore would not result in a significant change to previously identified aesthetic impacts described in the IS/MND.
- **Agricultural Resources:** The modified Project elements would be installed within Butano Creek and Butano Channel and would not affect agricultural uses. Therefore,

the Project modifications would not result in a significant change to previously identified agricultural resources impacts described in the IS/MND.

- **Air Quality:** While the design of the marsh control structure would be different than that which was evaluated in the IS/MND and the engineered log jam would require a small incremental increase in construction work near the berm augmentation site, the Project modifications would involve use of similar construction equipment that would be used during construction of the overall Project. Mitigation Measure AQ-1 (NO<sub>x</sub> Emissions Control and Cap Measures), as described in the IS/MND, would still be required to reduce construction-related NO<sub>x</sub> emissions to ensure such emissions remain below the Bay Area Air Quality Management District's NO<sub>x</sub> significance threshold. The Project modifications would not result in new or substantially more severe air quality impacts described in the IS/MND.
- **Biological Resources:** The proposed modifications to the marsh control structure would occur within the same footprint as the enhancements described in the IS/MND. Similar to the IS/MND's findings, special-status species including California red-legged frog (CRLF), San Francisco garter snake (SFGS), western pond turtle (WPT) could be harmed during construction activities from equipment or personnel. Implementation of the same BMPs (i.e., BMP-17 [Environmental Awareness Training] and BMP-21 [Minimize Injury or Mortality of Special-Status Reptiles and Amphibians during Vegetation Clearing, Grading, and Dredging]) would minimize mortality of individual CRLF, SFGS, and WPT. Additionally, Mitigation Measures HYD/WQ-1 (Water Turbidity Monitoring) and HYD/WQ-2 (Dissolved Oxygen Monitoring) would reduce temporary water quality impacts on these species. Once constructed, the modified marsh control structure would result in the same amount of permanent habitat modifications (approximately 0.02 acre) as the improvements evaluated in the IS/MND. In comparison to the previous design which included ACBs and geotextile fabric on the existing sandbag dam, the proposed modifications would have a more beneficial effect on habitat supporting CRLF, SFGS and WPT as the design incorporates more natural features (large wood and rock).

The proposed engineered log jam would result in a minor increase in temporary impacts on aquatic habitat due to the placement of the four large logs and four rocks in Butano Creek adjacent to the augmented berm upstream of Pescadero Creek Road. As stated in the IS/MND, BMPs would be implemented during in-water construction activities to reduce water quality quality impacts and associated habitat conditions for fish (including BMP-1 through BMP-9). Once constructed, the log jam would provide increased and improved habitat cover for aquatic species including special-status fish species (e.g. tidewater goby, steelhead and coho salmon) and other native aquatic species. Additionally, as noted above in Section 3.2, the engineered log jam would promote lower velocities and higher depths upstream, which would thereby enhance sediment deposition upstream of the berm and improve water quality conditions further downstream in Butano Creek. In turn, improved water quality conditions would also benefit habitat conditions downstream for native aquatic species.

For the above-described reasons, the Project modifications would improve habitat conditions supporting special-status species and would not result in new or more severe biological resources impacts.

- **Cultural Resources:** The Project modifications would be constructed within the same overall Project footprint. As described in the IS/MND, two archaeological sites were identified within the Project area of potential of effects (APE) (CA-SMA-251/H and CA-SMA-367), both of which are generally located east of State Route 1 and south of Pescadero Creek. The Project modifications would be constructed in areas away from these sites. Consistent with the IS/MND, the area around both archaeological sites would be delineated as an environmentally sensitive area (ESA) where work would not be allowed, although the existing access road through the ESA would be used to access the work areas. Similar to the IS/MND, implementation of BMP-28 and BMP-29 would ensure that construction is halted and appropriate protections are employed in the event that any significant archaeological resources or human remains are encountered. No new or substantially more severe impacts on cultural resources would occur as a result of constructing the Project modifications.
- **Geology, Soils, and Seismicity:** The Project modifications would not result in a change to the impact evaluation described in Section 3.6, *Geology, Soils and Seismicity*, of the IS/MND. The same BMPs identified for addressing potential erosion effects associated with vegetation removal and soil disturbing activities would be employed, including: BMP-1 (Non-Hazardous Materials), BMP-4 (Construction Entrances and Perimeter), BMP-7 (Sediment Control), BMP-10 (Timing of Work), and BMP-14 (Area of Disturbance), and BMP-16 (Site Stabilization). No new or substantially more severe impacts pertaining to geology, soils and seismicity as disclosed in the IS/MND would occur.
- **Greenhouse Gas Emissions:** As described in the IS/MND, the Project's construction and operation emissions would be substantially below BAAQMD's greenhouse gas (GHG) threshold of 1,100 MTCO<sub>2</sub>e/yr. While the engineered log jam would require a small increase in construction activities and thus a minor increase in GHG emissions, this Project modification would not generate substantial GHG emissions exceeding BAAQMD's threshold. Construction of the modified marsh control structure would also result in a similar amount of GHG emissions associated with construction of the enhancements described in the IS/MND. Therefore, collectively, the Project modifications would not result in new or substantially more severe GHG impacts described in the IS/MND.
- **Hazards and Hazardous Materials:** Construction of the Project modifications would require the use of the same hazardous materials (e.g., fuels and oils) that were described in the IS/MND. The same BMPs described in the IS/MND would be employed to ensure the safe handling, storage and disposal of hazardous materials used during construction. These include: BMP-2 (Hazardous Materials), BMP-3 (Waste Management), BMP-5 (Maintenance and Parking), BMP-6 (Spill Prevention and Control), BMP-8 (Containment), BMP-9 (Equipment Maintenance/Fueling), and BMP-15 (Equipment Maintenance and Inspection). With implementation of these measures, the Project modifications would not result in new or substantially more severe hazards/hazardous material impacts described in the IS/MND.

- **Hydrology and Water Quality:** Construction of the Project modifications would involve use of some heavy equipment requiring fuel and/or lubricants. Similar to the discussion provided in Section 3.9, *Hydrology and Water Quality*, of the IS/MND, potential impacts on water quality could result from accidental release of fuels, lubricants, hydraulic fluids or other chemicals associated with operating equipment. Implementation of the same BMPs (BMP-1 through BMP-10, BMP-14, BMP-15, and BMP-16) referenced in Section 3.9 of the IS/MND would ensure that potential water quality impacts are minimized. No new or substantially more severe water quality impacts would occur.
- **Land Use and Planning:** The Project modifications would not conflict with policies identified in the Local Coastal Program or County General Plan and therefore would not result in new or substantially more severe land use impacts described in the IS/MND.
- **Mineral Resources:** As described in the IS/MND, there are no known mineral resources in the Project area. Thus, the Project modifications would not result in an impact on such resources. No new or more severe impact on mineral resources would occur.
- **Noise:** Construction of the Project modifications would occur within the same work areas, would involve the same hauling routes, and would involve use of similar equipment described in the IS/MND. Therefore, construction of these elements would not affect any new sensitive receptors and would not result in substantially greater noise effects than those described in the IS/MND. No new or more severe noise impacts would occur.
- **Population and Housing, Public Services:** The Project modifications would not involve construction of infrastructure that could induce population growth (e.g., homes, road extensions) or increase demands for public services. No new or more severe impacts regarding population and housing or public services would occur.
- **Recreation:** The modified marsh control structure would be expected to be more aesthetically pleasing in comparison to the design evaluated in the IS/MND. Once constructed, the modified marsh control structure would be expected to improve visual conditions at the Pescadero Marsh Natural Preserve as the structure would be vegetated and blend in with the surrounding landscape. The Project modifications are not anticipated to increase use of the park or create new or altered recreational facilities. As such, no new or more severe recreational impacts would occur.
- **Transportation/Traffic:** The engineered log jam would require an incremental increase in truck trips to deliver the four large wood logs and rocks (i.e., no more than 10 trips). Similar to the discussion provided in Section 3.16, *Transportation*, of the IS/MND, the presence of slow-moving vehicles transporting large wood logs and rock for both the engineered log jam and the marsh control structure may temporarily affect traffic flow and may temporarily increase safety hazards between cars and construction vehicles on Pescadero Creek Road. Implementation of Mitigation Measure TR-1 (Prepare and Implement a Traffic Management Plan), as described in Section 3.16 of the IS/MND, would reduce potential traffic safety hazards on local

roads and ensure this impact remains less than significant with mitigation. No new or substantially more severe traffic impacts would occur.

- **Tribal Cultural Resources:** The Project modifications would not result in a change to the tribal cultural resources evaluation in the IS/MND. If buried archaeological sites that are determined to be tribal cultural resources are unearthed during construction of the Project modifications, implementation of BMP-28 would ensure that the sites are evaluated for the CRHR and treated with respect. This impact would remain less than significant; no new or more severe impact on tribal cultural resources would occur.
- **Utilities and Service Systems:** The Project modifications would not result in a change to the utilities and service systems evaluation in the IS/MND as they would not generate new water or wastewater demands or alter any stormwater drainage facilities. No new or more severe utilities impact would occur.
- **Mandatory Findings of Significance:** With implementation of the above-described BMPs, the Project modifications would not result in more severe cumulative impacts than those described in the IS/MND.

## 5. Findings and Conclusion

The following findings are provided in accordance with CEQA Section 15164 (e) concerning the decision not to prepare a subsequent IS/MND pursuant to Section 15162.

1. None of the following conditions calling for preparation of a subsequent MND have occurred:

- a) Subsequent changes are proposed in a project which will require major revisions of the previous MND...due to the involvement of new significant environmental impacts not considered in a previous MND;
- b) Substantial changes occur with respect to the circumstances under which the project is undertaken...which will require major revisions in the previous MND due to the involvement of new significant environmental impacts not covered in a previous MND...,or,
- c) New information of substantial importance to the project becomes available and (a) the information was not known and could not have been known at the time the previous MND as certified as complete...and (b) the new information shows any of the following:
  - The project will have one or more significant effects not discussed previously in the MND;
  - Significant effects previously examined will be substantially more severe than shown in the MND;

- Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce on or more significant effects of the project; or
  - Mitigation measures or alternatives which were not previously considered in the MND would substantially lessen one or more significant effects on the environment.
2. Only minor technical changes or additions are necessary to make the MND under consideration adequate under CEQA; and,
  3. The changes to the MND made by the addendum do not raise important new issues about the significant effects on the environment.

In conclusion, the relatively minor design revisions to the Project have been proposed to make the Project more effective and secure in achieving its habitat improvement objectives. As described above, the changes in the project design were evaluated for their potential to cause environmental effects of different intensity, duration, or magnitude to those potential effects described in the original IS/MND document. Based on the environmental analysis conducted above for this addendum process, in addition to the CEQA requirements listed directly above, a subsequent IS/MND effort is not required for the Project.

# **Attachment A. 100% Design Plans for the Project**



**SAN MATEO COUNTY, CALIFORNIA**

|          |                |
|----------|----------------|
| CH/JS/SD | FINAL 100%     |
| DRAWN    | REVISION NOTES |
| JP/JM    |                |
| REVIEWED |                |
| SD       |                |
| APPROVED |                |
| CH       |                |



**SAN MATEO RESOURCE CONSERVATION DISTRICT**

80 STONE PINE ROAD #100  
HALF MOON BAY, CA 94019  
(650) 712-7765



OB NUMBER  
16-1027-3

DATE  
OCT 2018

SHEET  
**C1**  
1 OF 19

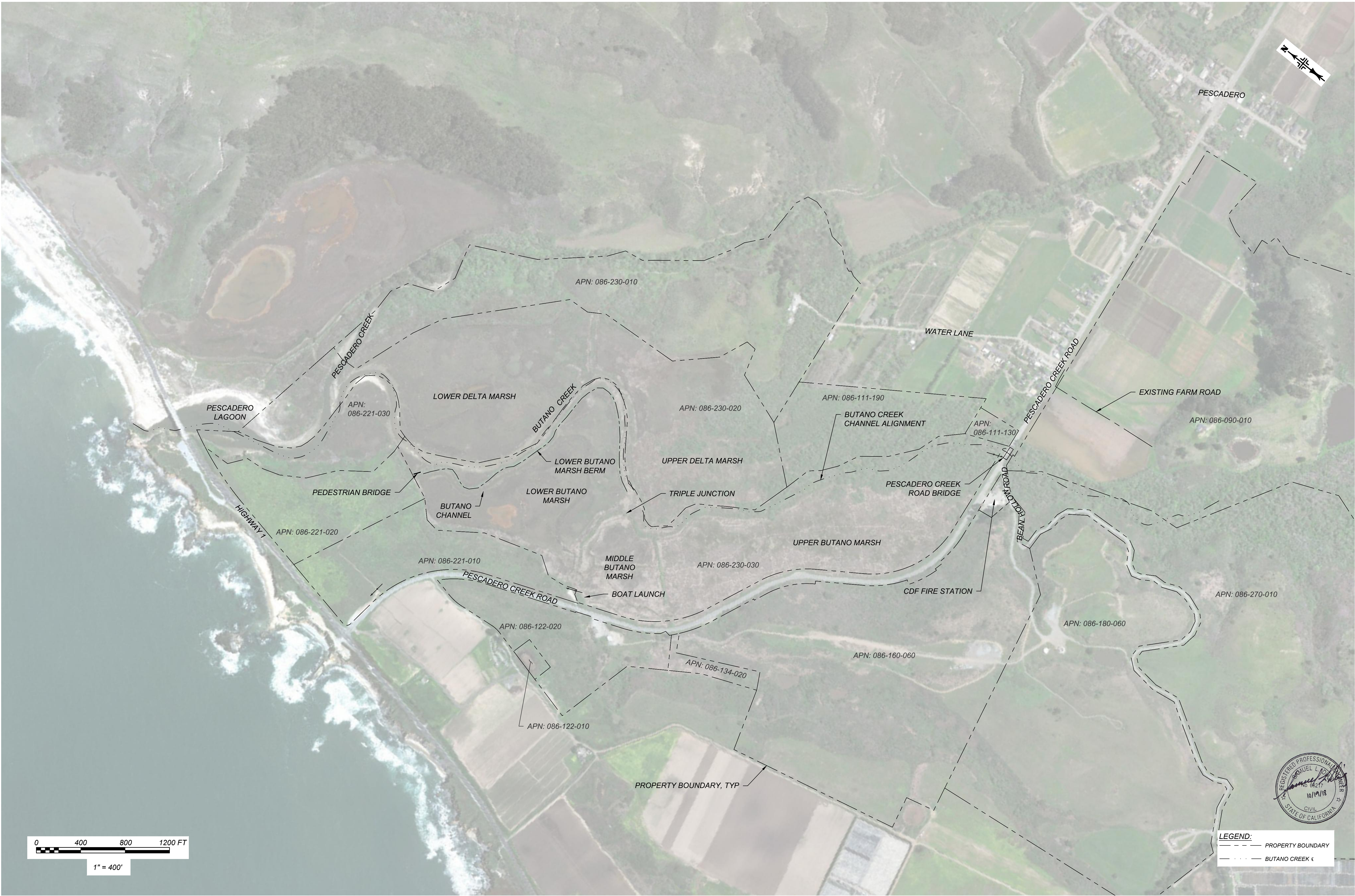
| SHEET LIST TABLE |                         |
|------------------|-------------------------|
| SHEET<br>NUMBER  | SHEET TITLE             |
| C1               | COVER SHEET             |
| C2               | EXISTING CONDITIONS     |
| C3               | ACCESS AND STAGING PLAN |
| C4               | SHEET LAYOUT PLAN       |
| C5               | PLAN VIEW (1 OF 7)      |
| C6               | PLAN VIEW (2 OF 7)      |
| C7               | PLAN VIEW (3 OF 7)      |
| C8               | PLAN VIEW (4 OF 7)      |
| C9               | PLAN VIEW (5 OF 7)      |
| C10              | PLAN VIEW (6 OF 7)      |
| C11              | PLAN VIEW (7 OF 7)      |


| SHEET LIST TABLE |   |
|------------------|---|
| SHEET<br>NUMBER  | SHEET TITLE   |
| C12              | CHANNEL PROFILE (1 OF 2)                            |
| C13              | CHANNEL PROFILE (2 OF 2)                            |
| C14              | SECTIONS  |
| C15              | ALIGNMENT GEOMETRY TABLE                            |
| C16              | MARSH CONTROL STRUCTURE<br>DETAILS                  |
| C17              | WATER QUALITY BERM<br>ENHANCEMENT DETAILS           |
| C18              | ENGINEERED LOG JAM PLAN AND<br>SECTION              |
| C19              | PESCADERO LAGOON WATER<br>SURFACE ELEVATION CONTROL |

CONTOURS AND ELEVATIONS SHOWN ON PLANS CONSIST OF NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) LIDAR SUPPLEMENTED WITH CBEC'S SITE TOPOGRAPHY COLLECTED IN NOVEMBER 2016 (BUTANO CREEK BATHYMETRY/TOPOGRAPHY) AND FEBRUARY AND APRIL 2017 (MARSH TOPOGRAPHY). CBEC SITE SURVEY OF BUTANO MARSH AND CREEK WAS TIED INTO NATIONAL GEODETIC SURVEY FIRST ORDER, CLASS 1, VERTICAL CONTROL POINT HT1506 LOCATED AT LAT:37°15'34.4", LONG:122°24'46.9" WITH A PUBLISHED ELEVATION OF 50.31 FT (NAVD88, GEOID 09). SURROUNDING TOPOGRAPHY IS FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 2009-2011 LIDAR DATASET.

*NOTE: CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PERMITS.*

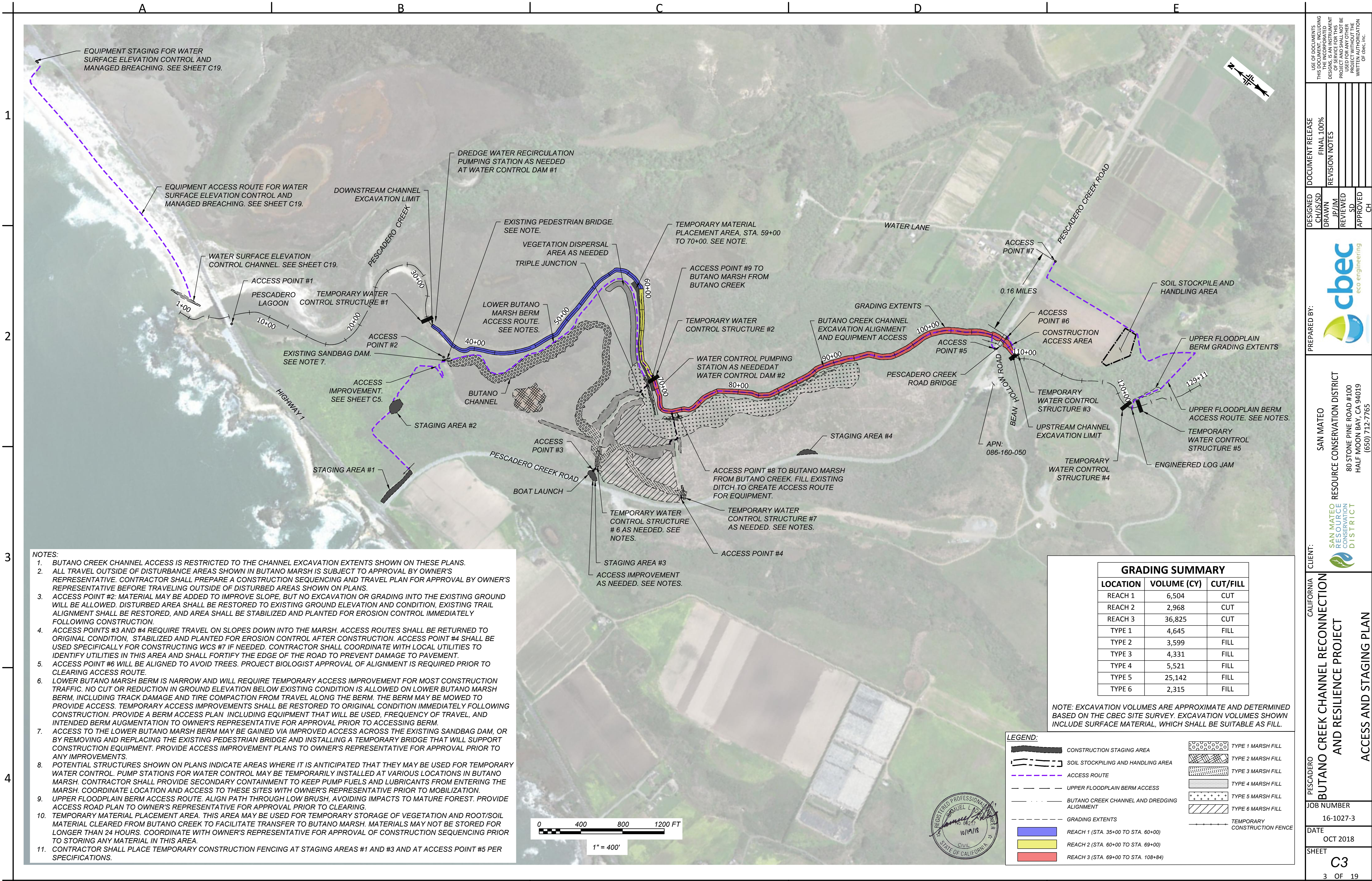




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|-----------|---|------------|---------|---|--------------|---|----------------------|----------------|----------------|----------------|--------------------------------|----------------|--|
| PESCADERO | BUTANO CREEK CHANNEL RECONNECTION<br>AND RESILIENCE PROJECT | CALIFORNIA | CLIENT: | SAN MATEO<br>RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765 | PREPARED BY: |  | DESIGNED<br>CH/JS/SD | DRAWN<br>JP/JM | REVIEWED<br>SD | APPROVED<br>CH | DOCUMENT RELEASE<br>FINAL 100% | REVISION NOTES | USE OF DOCUMENTS<br>THIS DOCUMENT, INCLUDING<br>THE INCORPORATED<br>DESIGN, SHALL BE<br>USED FOR ANY OTHER<br>PROJECT AND SHALL NOT BE<br>REPRODUCED OR<br>TRANSMITTED IN ANY<br>FORM OR BY ANY<br>MEANS, ELECTRONIC OR<br>MECHANICAL, WITHOUT<br>WRITTEN AUTHORIZATION<br>OF cbec, inc. |
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|            |           |
|------------|-----------|
| JOB NUMBER | 16-1027-3 |
| DATE       | OCT 2018  |
| SHEET      | C2        |
|            | 2 OF 19   |





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SD

APPROVED  
CH

REVISION NOTES

PREPARED BY:

cbec

eco engineering

CLIENT:

SAN MATEO RESOURCE CONSERVATION DISTRICT

80 STONE PINE ROAD #100

HALF MOON BAY, CA 94019

(650) 712-7765

PESCADERO CALIFORNIA

BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT

ACCESS AND STAGING PLAN

JOB NUMBER

16-1027-3

DATE

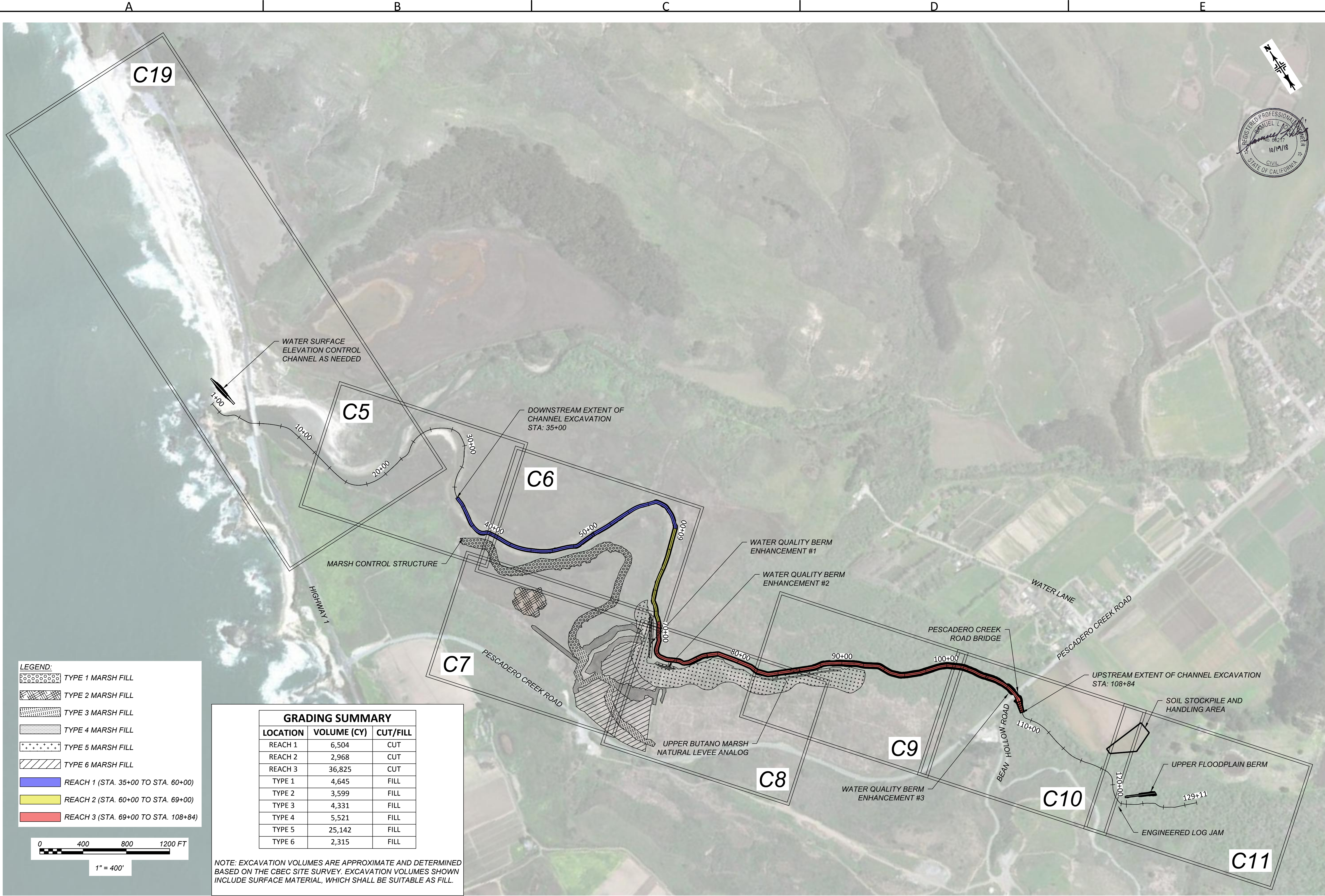
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SHEET

C3

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| SD        | SD |                  |    |
| APPROVED  |    |                  |    |
| CH        | CH |                  |    |



PREPARED BY: **CBEC**

CLIENT: **SAN MATEO RESOURCE CONSERVATION DISTRICT**  
80 STONE PINE ROAD #100  
HALF MOON BAY, CA 94019  
(650) 712-7765

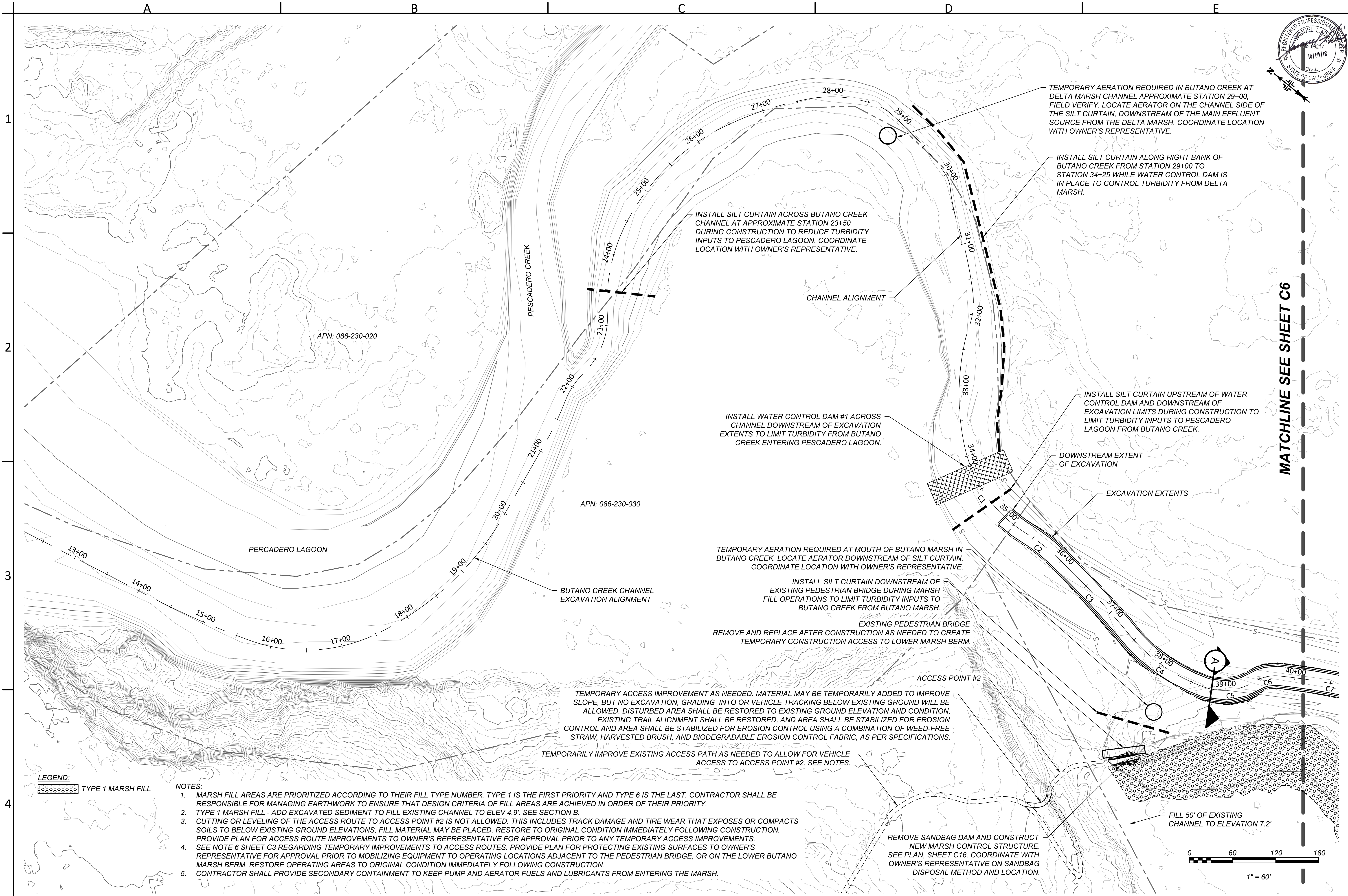
PESCADERO CALIFORNIA  
**BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT**

| JOB NUMBER |  |
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| 16-1027-3  |  |
| DATE       |  |
| OCT 2018   |  |
| SHEET      |  |
| C4         |  |
| 4 OF 19    |  |

| GRADING SUMMARY |             |          |
|-----------------|-------------|----------|
| LOCATION        | VOLUME (CY) | CUT/FILL |
| REACH 1         | 6,504       | CUT      |
| REACH 2         | 2,968       | CUT      |
| REACH 3         | 36,825      | CUT      |
| TYPE 1          | 4,645       | FILL     |
| TYPE 2          | 3,599       | FILL     |
| TYPE 3          | 4,331       | FILL     |
| TYPE 4          | 5,521       | FILL     |
| TYPE 5          | 25,142      | FILL     |
| TYPE 6          | 2,315       | FILL     |

NOTE: EXCAVATION VOLUMES ARE APPROXIMATE AND DETERMINED BASED ON THE CBEC SITE SURVEY. EXCAVATION VOLUMES SHOWN INCLUDE SURFACE MATERIAL, WHICH SHALL BE SUITABLE AS FILL.






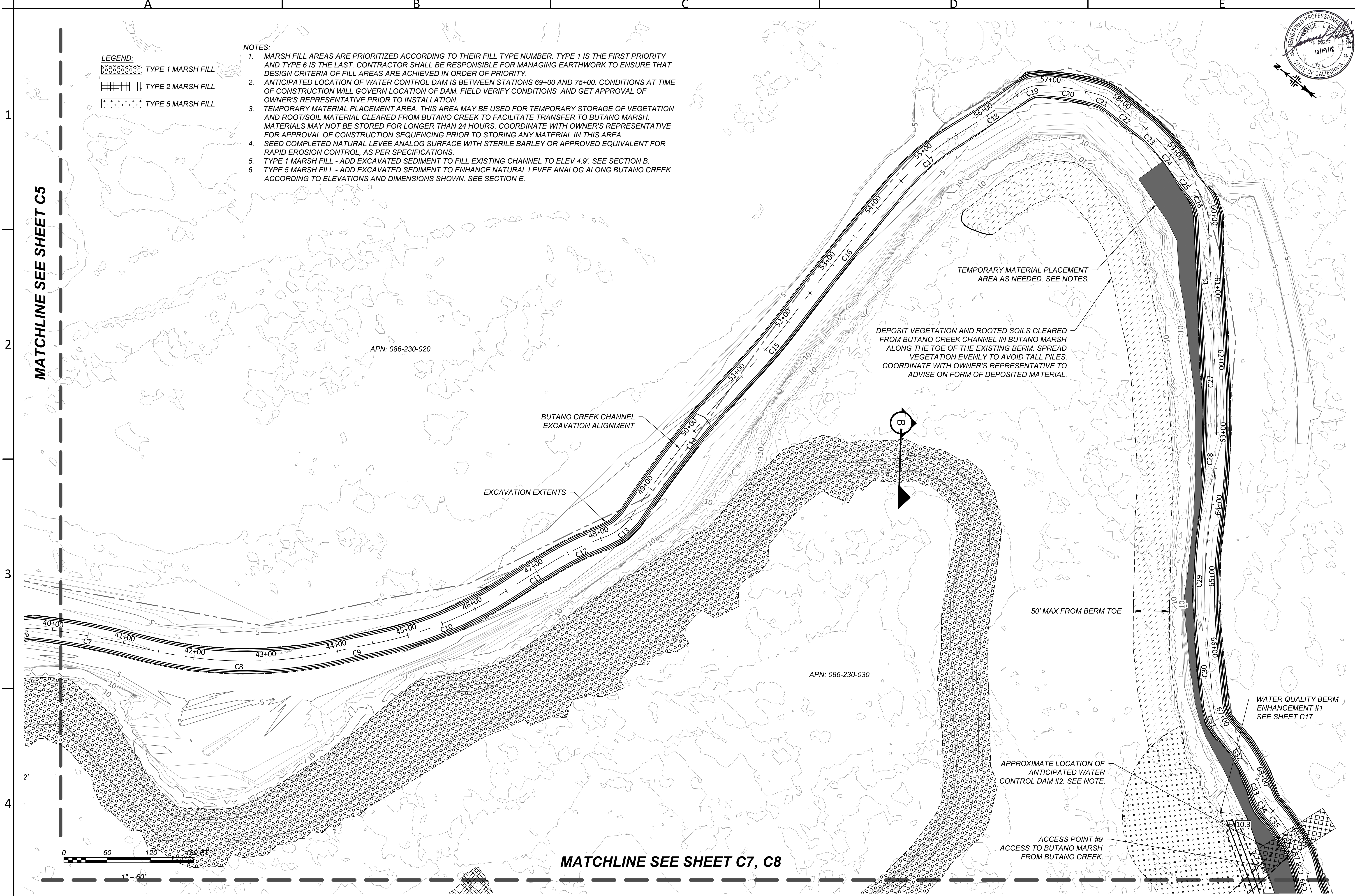
**LEGEND:**  
[Symbol] TYPE 1 MARSH FILL

- NOTES:**
- MARSH FILL AREAS ARE PRIORITIZED ACCORDING TO THEIR FILL TYPE NUMBER. TYPE 1 IS THE FIRST PRIORITY AND TYPE 6 IS THE LAST. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING EARTHWORK TO ENSURE THAT DESIGN CRITERIA OF FILL AREAS ARE ACHIEVED IN ORDER OF THEIR PRIORITY.
  - TYPE 1 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEV 4.9'. SEE SECTION B.
  - CUTTING OR LEVELING OF THE ACCESS ROUTE TO ACCESS POINT #2 IS NOT ALLOWED. THIS INCLUDES TRACK DAMAGE AND TIRE WEAR THAT EXPOSES OR COMPACTS SOILS TO BELOW EXISTING GROUND ELEVATIONS, FILL MATERIAL MAY BE PLACED. RESTORE TO ORIGINAL CONDITION IMMEDIATELY FOLLOWING CONSTRUCTION. PROVIDE PLAN FOR ACCESS ROUTE IMPROVEMENTS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ANY TEMPORARY ACCESS IMPROVEMENTS.
  - SEE NOTE 6 SHEET C3 REGARDING TEMPORARY IMPROVEMENTS TO ACCESS ROUTES. PROVIDE PLAN FOR PROTECTING EXISTING SURFACES TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO MOBILIZING EQUIPMENT TO OPERATING LOCATIONS ADJACENT TO THE PEDESTRIAN BRIDGE, OR ON THE LOWER BUTANO MARSH BERM. RESTORE OPERATING AREAS TO ORIGINAL CONDITION IMMEDIATELY FOLLOWING CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT TO KEEP PUMP AND AERATOR FUELS AND LUBRICANTS FROM ENTERING THE MARSH.



|  |                                |   |                      |                |
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|  |                                |   | DRAWN<br>JP/JM       |                |
| PREPARED BY:<br><br>eco engineering   |                                | CLIENT:<br>SAN MATEO RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765 |                      |                |
| CALIFORNIA<br><b>BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT</b>  |                                | JOB NUMBER<br>16-1027-3   |                      |                |
| PESCADERO  |                                | DATE<br>OCT 2018  |                      |                |
| PLAN VIEW (1 OF 7)   |                                | SHEET<br><b>C5</b><br>5 OF 19   |                      |                |







LEGEND:

- TYPE 1 MARSH FILL
- TYPE 2 MARSH FILL
- TYPE 5 MARSH FILL

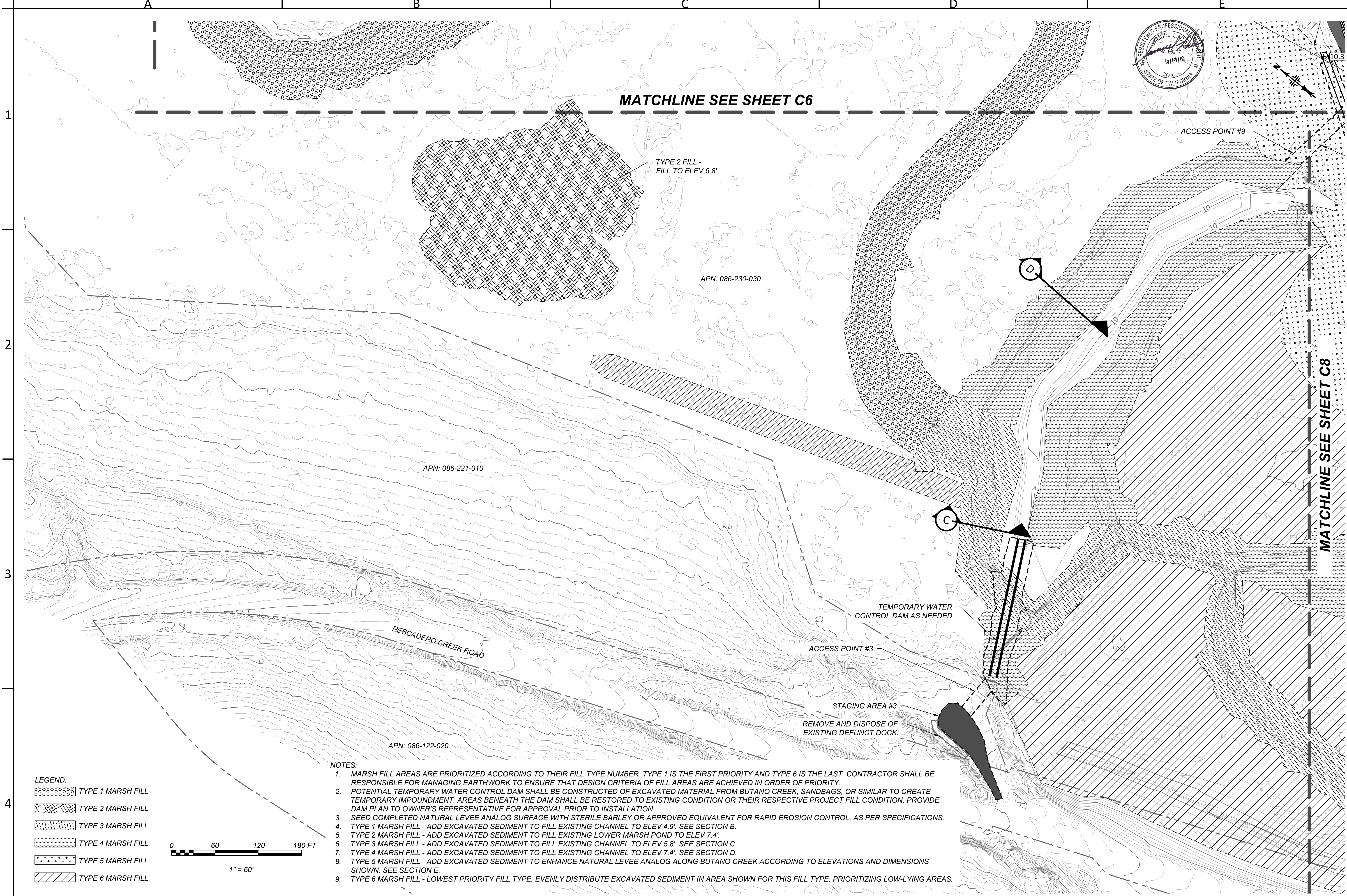
NOTES:

- MARSH FILL AREAS ARE PRIORITIZED ACCORDING TO THEIR FILL TYPE NUMBER. TYPE 1 IS THE FIRST PRIORITY AND TYPE 6 IS THE LAST. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING EARTHWORK TO ENSURE THAT DESIGN CRITERIA OF FILL AREAS ARE ACHIEVED IN ORDER OF PRIORITY.
- ANTICIPATED LOCATION OF WATER CONTROL DAM IS BETWEEN STATIONS 69+00 AND 75+00. CONDITIONS AT TIME OF CONSTRUCTION WILL GOVERN LOCATION OF DAM. FIELD VERIFY CONDITIONS AND GET APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- TEMPORARY MATERIAL PLACEMENT AREA. THIS AREA MAY BE USED FOR TEMPORARY STORAGE OF VEGETATION AND ROOT/SOIL MATERIAL CLEARED FROM BUTANO CREEK TO FACILITATE TRANSFER TO BUTANO MARSH. MATERIALS MAY NOT BE STORED FOR LONGER THAN 24 HOURS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVAL OF CONSTRUCTION SEQUENCING PRIOR TO STORING ANY MATERIAL IN THIS AREA.
- SEED COMPLETED NATURAL LEVEE ANALOG SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT FOR RAPID EROSION CONTROL, AS PER SPECIFICATIONS.
- TYPE 1 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEV 4.9'. SEE SECTION B.
- TYPE 5 MARSH FILL - ADD EXCAVATED SEDIMENT TO ENHANCE NATURAL LEVEE ANALOG ALONG BUTANO CREEK ACCORDING TO ELEVATIONS AND DIMENSIONS SHOWN. SEE SECTION E.



|  |  |  |  |   |  |  |  |  |  |   |  |
|--|--|--|--|---|--|--|--|--|--|---|--|
| PESCADERO<br>CALIFORNIA<br>BUTANO CREEK CHANNEL RECONNECTION<br>AND RESILIENCE PROJECT<br>PLAN VIEW (2 OF 7) |  | CLIENT:<br> SAN MATEO<br>RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765 |  | PREPARED BY:<br> cbec<br>eco engineering |  | DESIGNED<br>CH/JS/SD<br>DRAWN<br>JP/JM<br>REVIEWED<br>SD<br>APPROVED<br>CH |  | DOCUMENT RELEASE<br>FINAL 100%<br>REVISION NOTES |  | USE OF DOCUMENTS<br>THIS DOCUMENT, INCLUDING<br>THE INCORPORATED<br>DESIGNS, IS AN INSTRUMENT<br>OF SERVICE FOR THIS<br>PROJECT AND SHALL NOT BE<br>REPRODUCED OR USED FOR<br>ANY OTHER PROJECT WITHOUT<br>THE WRITTEN AUTHORIZATION<br>OF cbec, inc. |  |
| JOB NUMBER<br>16-1027-3  |  | DATE<br>OCT 2018   |  | SHEET<br>C6   |  | 6 OF 19  |  |  |  |   |  |







LEGEND:

- TYPE 1 MARSH FILL
- TYPE 2 MARSH FILL
- TYPE 3 MARSH FILL
- TYPE 4 MARSH FILL
- TYPE 5 MARSH FILL
- TYPE 6 MARSH FILL

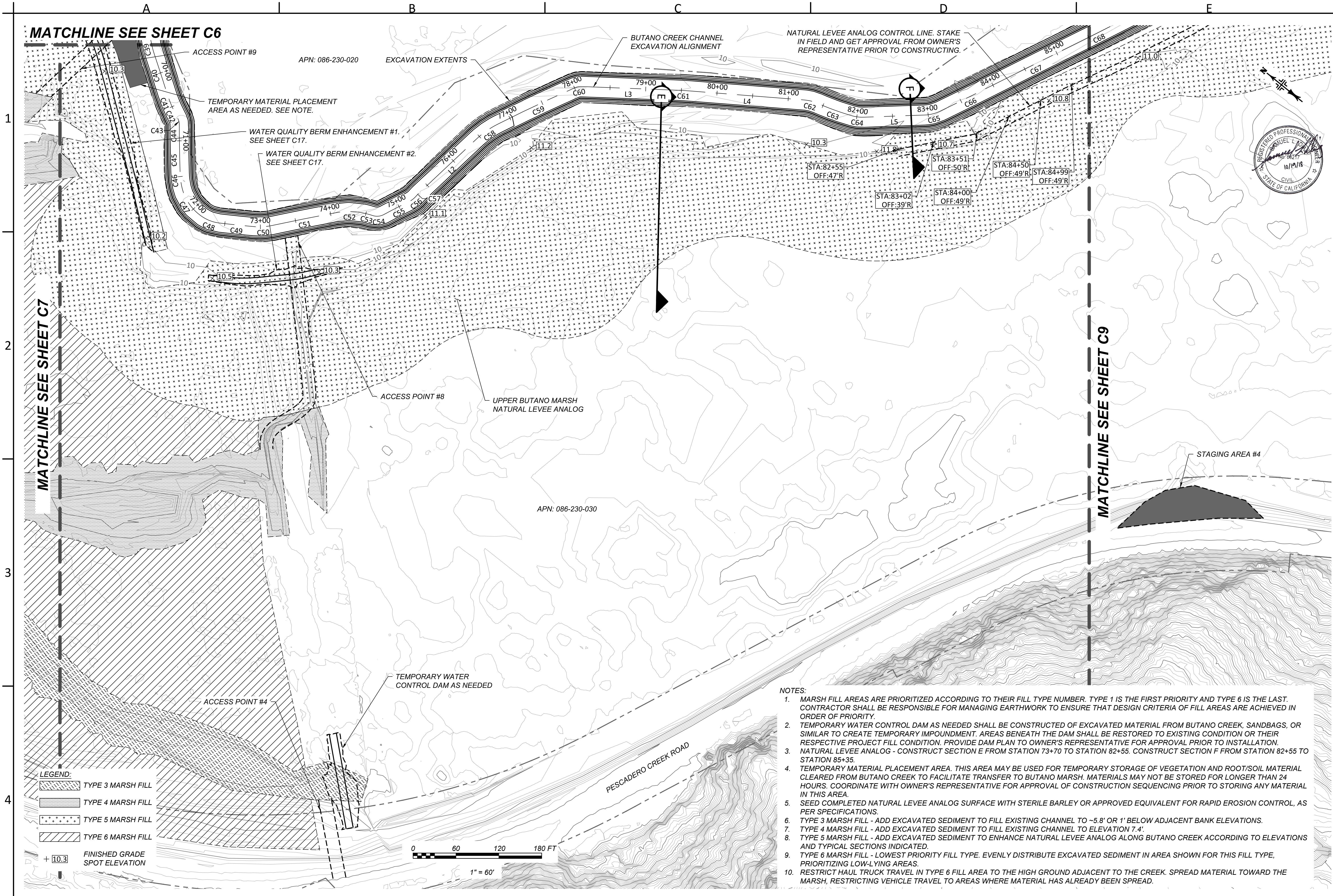
NOTES:

- MARSH FILL AREAS ARE PRIORITIZED ACCORDING TO THEIR FILL TYPE NUMBER. TYPE 1 IS THE FIRST PRIORITY AND TYPE 6 IS THE LAST. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING EARTHWORK TO ENSURE THAT DESIGN CRITERIA OF FILL AREAS ARE ACHIEVED IN ORDER OF PRIORITY.
- POTENTIAL TEMPORARY WATER CONTROL DAM SHALL BE CONSTRUCTED OF EXCAVATED MATERIAL FROM BUTANO CREEK, SANDBAGS, OR SIMILAR TO CREATE TEMPORARY IMPOUNDMENT. AREAS BENEATH THE DAM SHALL BE RESTORED TO EXISTING CONDITION OR THEIR RESPECTIVE PROJECT FILL CONDITION. PROVIDE DAM PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
- SEED COMPLETED NATURAL LEVEE ANALOG SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT FOR RAPID EROSION CONTROL, AS PER SPECIFICATIONS.
- TYPE 1 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEV 4.9'. SEE SECTION B.
- TYPE 2 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING LOWER MARSH POND TO ELEV 7.4'.
- TYPE 3 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEV 5.8'. SEE SECTION C.
- TYPE 4 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEV 7.4'. SEE SECTION D.
- TYPE 5 MARSH FILL - ADD EXCAVATED SEDIMENT TO ENHANCE NATURAL LEVEE ANALOG ALONG BUTANO CREEK ACCORDING TO ELEVATIONS AND DIMENSIONS SHOWN. SEE SECTION E.
- TYPE 6 MARSH FILL - LOWEST PRIORITY FILL TYPE. EVENLY DISTRIBUTE EXCAVATED SEDIMENT IN AREA SHOWN FOR THIS FILL TYPE, PRIORITIZING LOW-LYING AREAS.





|                |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
|----------------|-------|------|----------|------------|-----------|-----------|------------|---|--------------------|---------|---|---|--------------|--|------------------|--|
| 7 OF 19        | SHEET | DATE | OCT 2018 | JOB NUMBER | 16-1027-3 | PESCADERO | CALIFORNIA | BUTANO CREEK CHANNEL RECONSTRUCTION<br>AND RESILIENCE PROJECT | PLAN VIEW (3 OF 7) | CLIENT: | <br>SAN MATEO<br>RESOURCE CONSERVATION<br>DISTRICT | SAN MATEO<br>RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765 | PREPARED BY: | <br>cbec<br>eco engineering | DOCUMENT RELEASE | USE OF DOCUMENTS                       |
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| DRAWN          |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
| JP/JM          |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
| REVIEWED       |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
| SD             |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
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| CH             |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
| FINAL 100%     |       |      |          |            |           |           |            |   |                    |         |   |   |              |  |                  |  |
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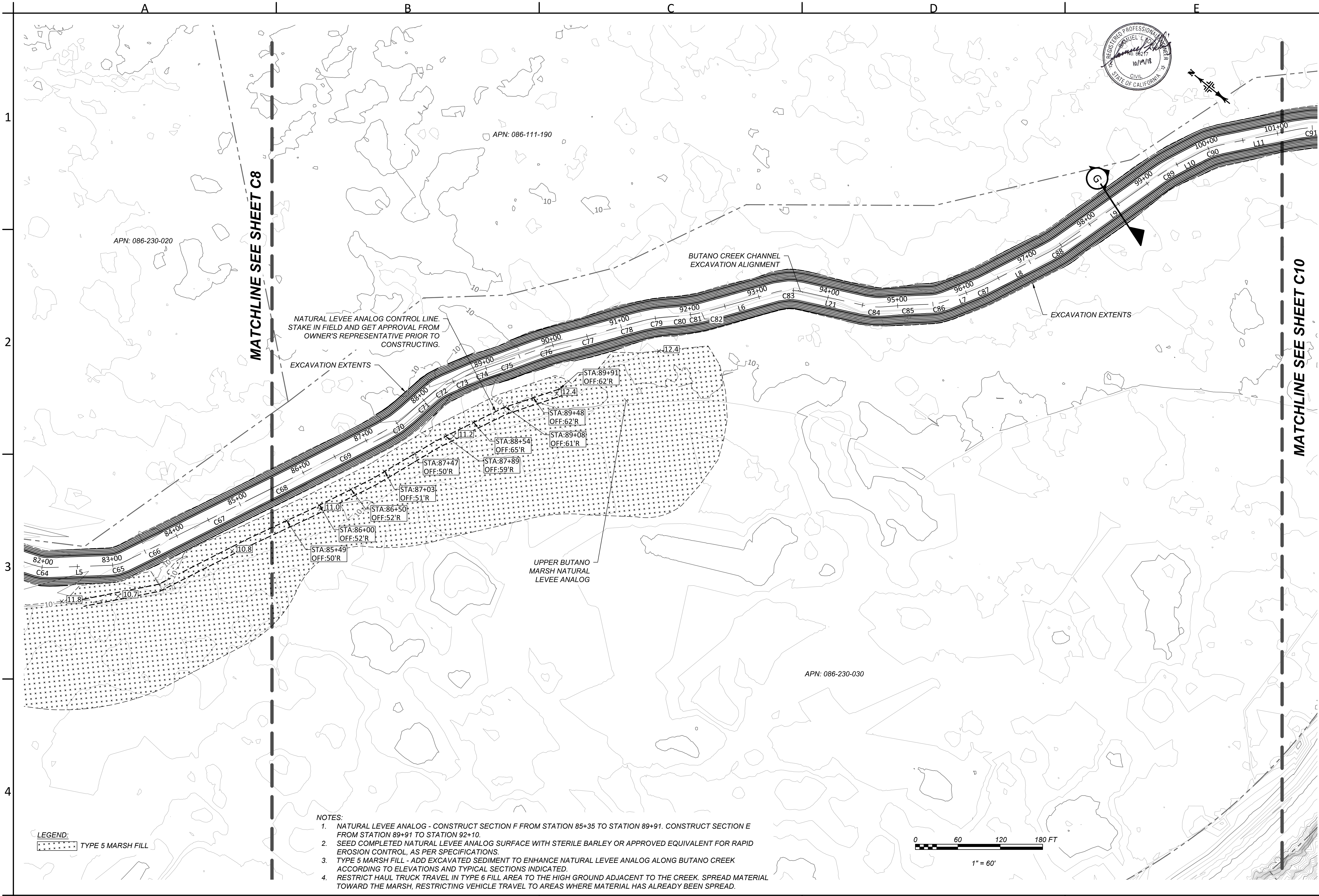


- NOTES:
- MARSH FILL AREAS ARE PRIORITIZED ACCORDING TO THEIR FILL TYPE NUMBER. TYPE 1 IS THE FIRST PRIORITY AND TYPE 6 IS THE LAST. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING EARTHWORK TO ENSURE THAT DESIGN CRITERIA OF FILL AREAS ARE ACHIEVED IN ORDER OF PRIORITY.
  - TEMPORARY WATER CONTROL DAM AS NEEDED SHALL BE CONSTRUCTED OF EXCAVATED MATERIAL FROM BUTANO CREEK, SANDBAGS, OR SIMILAR TO CREATE TEMPORARY IMPOUNDMENT. AREAS BENEATH THE DAM SHALL BE RESTORED TO EXISTING CONDITION OR THEIR RESPECTIVE PROJECT FILL CONDITION. PROVIDE DAM PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
  - NATURAL LEVEE ANALOG - CONSTRUCT SECTION E FROM STATION 73+70 TO STATION 82+55. CONSTRUCT SECTION F FROM STATION 82+55 TO STATION 85+35.
  - TEMPORARY MATERIAL PLACEMENT AREA. THIS AREA MAY BE USED FOR TEMPORARY STORAGE OF VEGETATION AND ROOT/SOIL MATERIAL CLEARED FROM BUTANO CREEK TO FACILITATE TRANSFER TO BUTANO MARSH. MATERIALS MAY NOT BE STORED FOR LONGER THAN 24 HOURS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVAL OF CONSTRUCTION SEQUENCING PRIOR TO STORING ANY MATERIAL IN THIS AREA.
  - SEED COMPLETED NATURAL LEVEE ANALOG SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT FOR RAPID EROSION CONTROL, AS PER SPECIFICATIONS.
  - TYPE 3 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ~5.8' OR 1' BELOW ADJACENT BANK ELEVATIONS.
  - TYPE 4 MARSH FILL - ADD EXCAVATED SEDIMENT TO FILL EXISTING CHANNEL TO ELEVATION 7.4'.
  - TYPE 5 MARSH FILL - ADD EXCAVATED SEDIMENT TO ENHANCE NATURAL LEVEE ANALOG ALONG BUTANO CREEK ACCORDING TO ELEVATIONS AND TYPICAL SECTIONS INDICATED.
  - TYPE 6 MARSH FILL - LOWEST PRIORITY FILL TYPE. EVENLY DISTRIBUTE EXCAVATED SEDIMENT IN AREA SHOWN FOR THIS FILL TYPE, PRIORITIZING LOW-LYING AREAS.
  - RESTRICT HAUL TRUCK TRAVEL IN TYPE 6 FILL AREA TO THE HIGH GROUND ADJACENT TO THE CREEK. SPREAD MATERIAL TOWARD THE MARSH, RESTRICTING VEHICLE TRAVEL TO AREAS WHERE MATERIAL HAS ALREADY BEEN SPREAD.



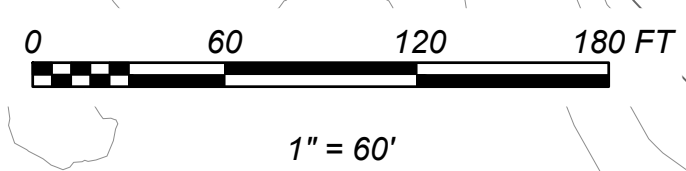
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|  | DRAWN            |  |            |  |  |  |  |
|  | JP/JM            |  |            |  |  |  |  |
|  | REVIEWED         |  |            |  |  |  |  |
|  | SD               |  |            |  |  |  |  |
|  | APPROVED         |  |            |  |  |  |  |
|  | CH               |  |            |  |  |  |  |
|  |                  |  |            |  |  |  |  |
|  |                  |  |            |  |  |  |  |
| PREPARED BY:   |                  |  |            | <br>cbec<br>eco engineering                           |  |  |  |
| CLIENT:  |                  |  |            | SAN MATEO<br>RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765                      |  |  |  |
| CALIFORNIA   |                  |  |            | <br>SAN MATEO<br>RESOURCE<br>CONSERVATION<br>DISTRICT |  |  |  |
| PESCADERO  |                  |  |            | BUTANO CREEK CHANNEL RECONNECTION<br>AND RESILIENCE PROJECT  |  |  |  |
| JOB NUMBER   |                  |  |            | 16-1027-3  |  |  |  |
| DATE   |                  |  |            | OCT 2018   |  |  |  |
| SHEET  |                  |  |            | C8   |  |  |  |
| 8 OF 19  |                  |  |            | PLAN VIEW (4 OF 7)   |  |  |  |






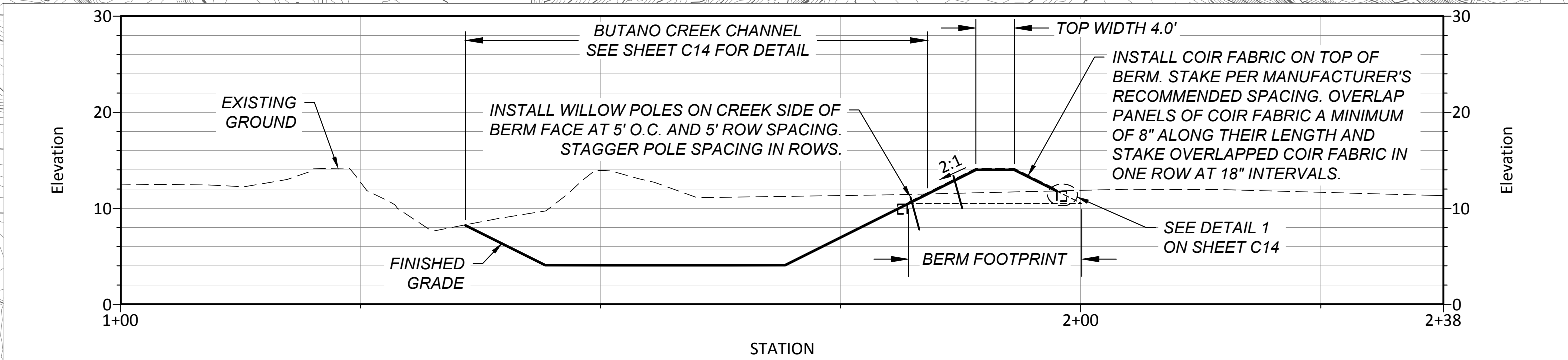
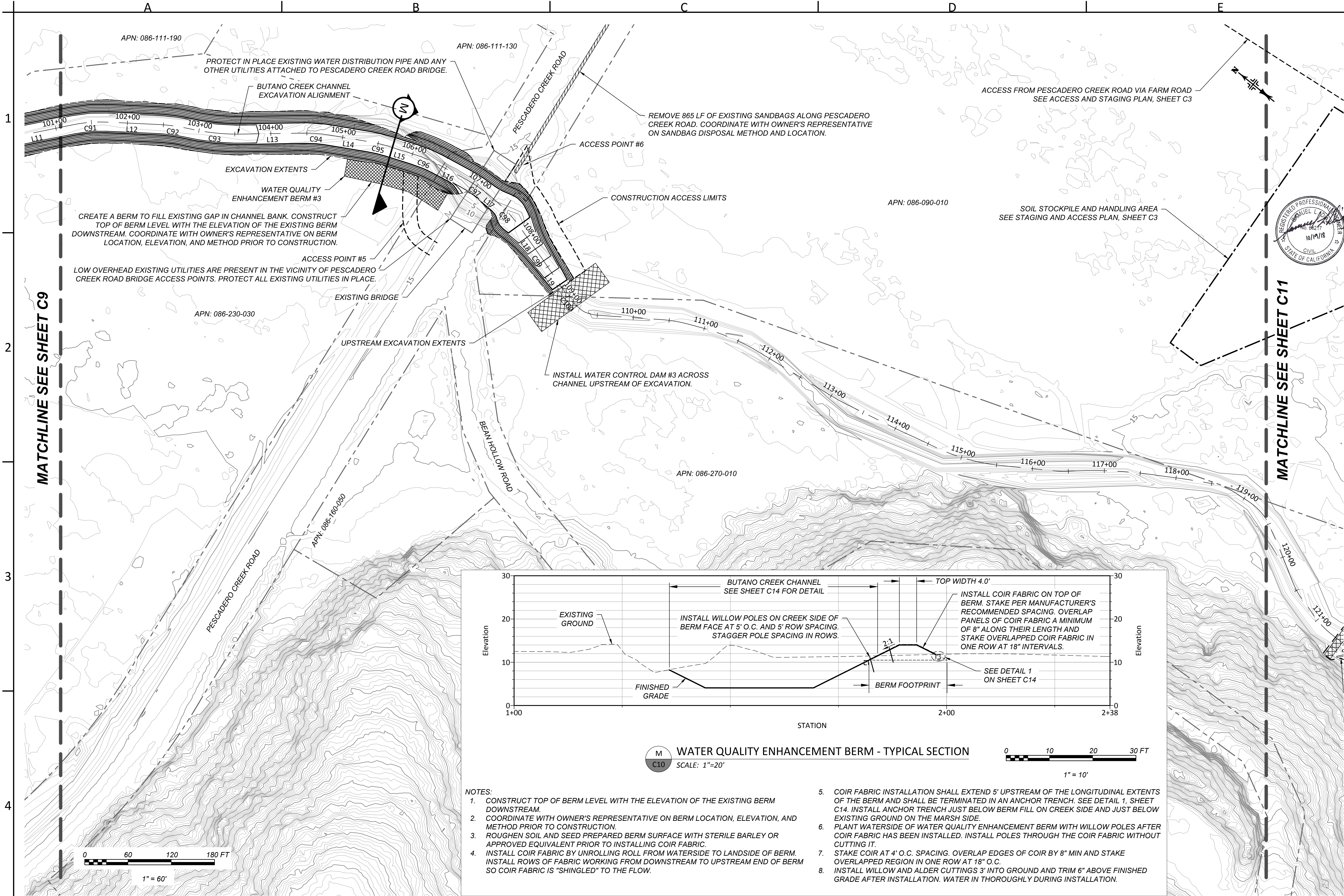
LEGEND:  
[Hatched Box] TYPE 5 MARSH FILL

- NOTES:
1. NATURAL LEVEE ANALOG - CONSTRUCT SECTION F FROM STATION 85+35 TO STATION 89+91. CONSTRUCT SECTION E FROM STATION 89+91 TO STATION 92+10.
  2. SEED COMPLETED NATURAL LEVEE ANALOG SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT FOR RAPID EROSION CONTROL, AS PER SPECIFICATIONS.
  3. TYPE 5 MARSH FILL - ADD EXCAVATED SEDIMENT TO ENHANCE NATURAL LEVEE ANALOG ALONG BUTANO CREEK ACCORDING TO ELEVATIONS AND TYPICAL SECTIONS INDICATED.
  4. RESTRICT HAUL TRUCK TRAVEL IN TYPE 6 FILL AREA TO THE HIGH GROUND ADJACENT TO THE CREEK. SPREAD MATERIAL TOWARD THE MARSH, RESTRICTING VEHICLE TRAVEL TO AREAS WHERE MATERIAL HAS ALREADY BEEN SPREAD.




|  |  |                                |                |  |  |  |  |
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|  |  |                                |                |  |  |  |  |
|  |  |                                |                |  |  |  |  |
| PREPARED BY:   |                               |                                |                |  |  |  |  |
| CLIENT:  | SAN MATEO RESOURCE CONSERVATION DISTRICT<br>80 STONE PINE ROAD #100<br>HALF MOON BAY, CA 94019<br>(650) 712-7765 |                                |                |  |  |  |  |
| CALIFORNIA   | PESCADERO BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT   |                                |                |  |  |  |  |
| JOB NUMBER   | 16-1027-3  |                                |                |  |  |  |  |
| DATE   | OCT 2018   |                                |                |  |  |  |  |
| SHEET  | C9<br>9 OF 19  |                                |                |  |  |  |  |





- NOTES:
1. CONSTRUCT TOP OF BERM LEVEL WITH THE ELEVATION OF THE EXISTING BERM DOWNSTREAM.
  2. COORDINATE WITH OWNER'S REPRESENTATIVE ON BERM LOCATION, ELEVATION, AND METHOD PRIOR TO CONSTRUCTION.
  3. ROUGHEN SOIL AND SEED PREPARED BERM SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT PRIOR TO INSTALLING COIR FABRIC.
  4. INSTALL COIR FABRIC BY UNROLLING ROLL FROM WATERSIDE TO LANDSIDE OF BERM. INSTALL ROWS OF FABRIC WORKING FROM DOWNSTREAM TO UPSTREAM END OF BERM SO COIR FABRIC IS "SHINGLED" TO THE FLOW.
  5. COIR FABRIC INSTALLATION SHALL EXTEND 5' UPSTREAM OF THE LONGITUDINAL EXTENTS OF THE BERM AND SHALL BE TERMINATED IN AN ANCHOR TRENCH. SEE DETAIL 1, SHEET C14. INSTALL ANCHOR TRENCH JUST BELOW BERM FILL ON CREEK SIDE AND JUST BELOW EXISTING GROUND ON THE MARSH SIDE.
  6. PLANT WATERSIDE OF WATER QUALITY ENHANCEMENT BERM WITH WILLOW POLES AFTER COIR FABRIC HAS BEEN INSTALLED. INSTALL POLES THROUGH THE COIR FABRIC WITHOUT CUTTING IT.
  7. STAKE COIR AT 4' O.C. SPACING. OVERLAP EDGES OF COIR BY 8" MIN AND STAKE OVERLAPPED REGION IN ONE ROW AT 18" O.C.
  8. INSTALL WILLOW AND ALDER CUTTINGS 3' INTO GROUND AND TRIM 6" ABOVE FINISHED GRADE AFTER INSTALLATION. WATER IN THOROUGHLY DURING INSTALLATION.



|  |  |   |                         |                  |                                 |
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|  |  |   |                         |                  |                                 |







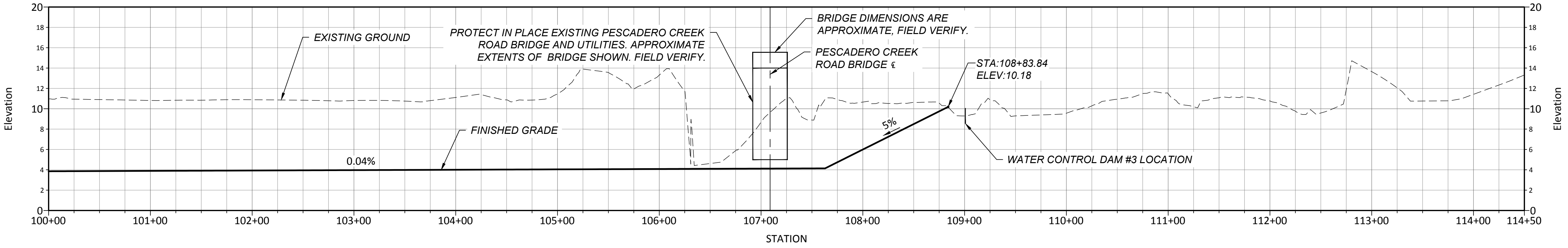


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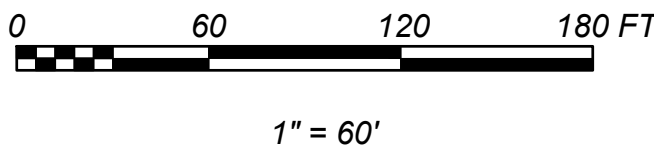
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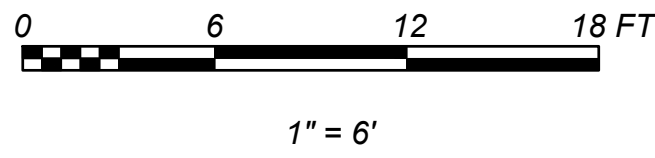
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HORIZONTAL SCALE:



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CLIENT:

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CONSERVATION  
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RESOURCE CONSERVATION DISTRICT  
80 STONE PINE ROAD #100  
HALF MOON BAY, CA 94019  
(650) 712-7765

PESCADERO

CALIFORNIA

BUTANO CREEK CHANNEL RECONNECTION  
AND RESILIENCE PROJECT

CHANNEL PROFILE (2 OF 2)

JOB NUMBER

16-1027-3

DATE

OCT 2018

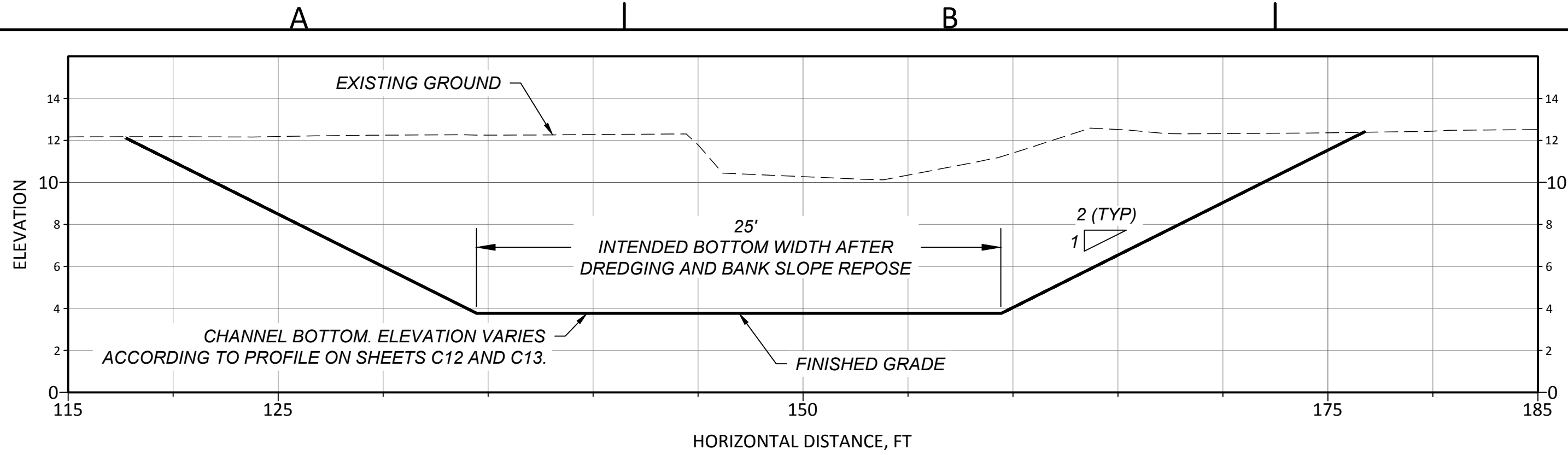
SHEET

C13

13 OF 19

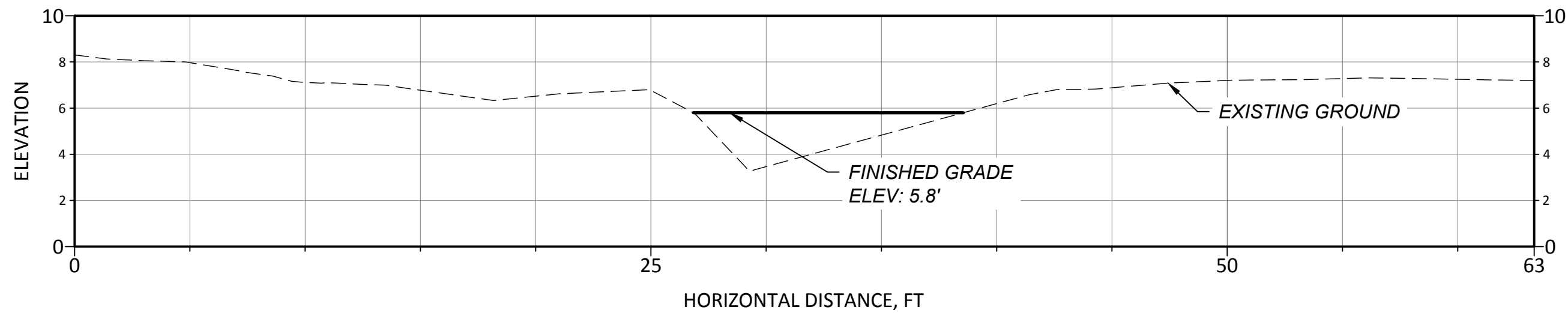


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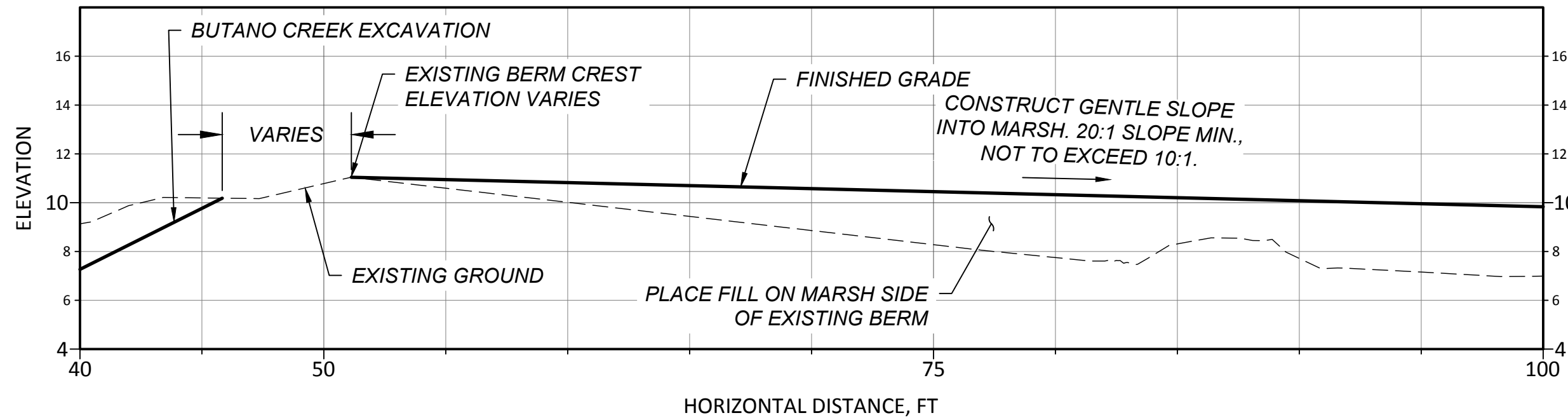


**A**  
**C5** **TYPICAL BUTANO CREEK CHANNEL DREDGE SECTION**  
SCALE: 1"=5'

- NOTES:
1. DREDGING SHALL MAINTAIN THE DESIGN CROSS-SECTIONAL AREA OF THE CHANNEL AS REPRESENTED BY FINISHED GRADE LINES AND CONTOURS.
  2. DREDGE CHANNEL IN STEPS TO APPROXIMATE DESIGN SLOPES WHERE DEPTH OF DREDGING IS GREATER THAN 3'.
  3. PREPARE AND SUBMIT A PRELIMINARY DREDGING PLAN OF OPERATION TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DREDGING.

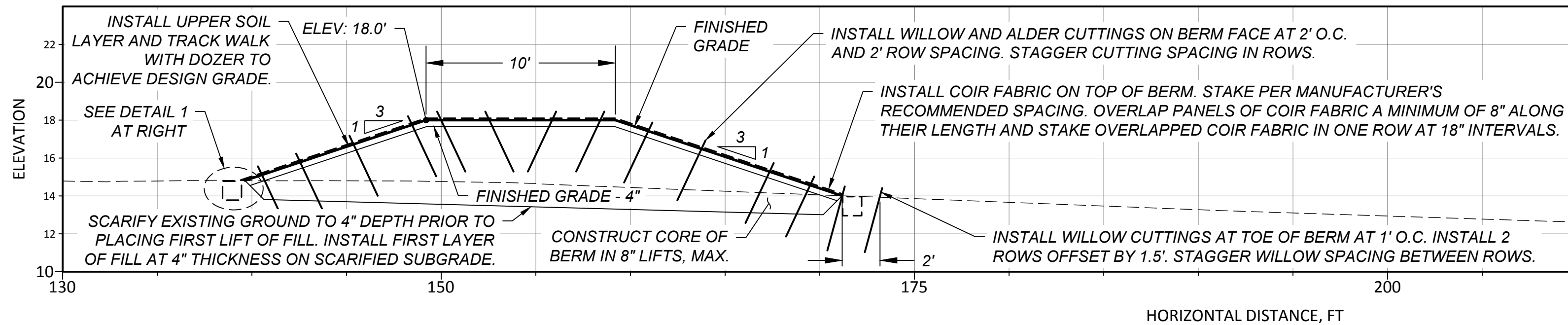


**C**  
**C7** **SEDIMENT REUSE SECTION - TYPE 3 FILL**  
SCALE: 1"=5'



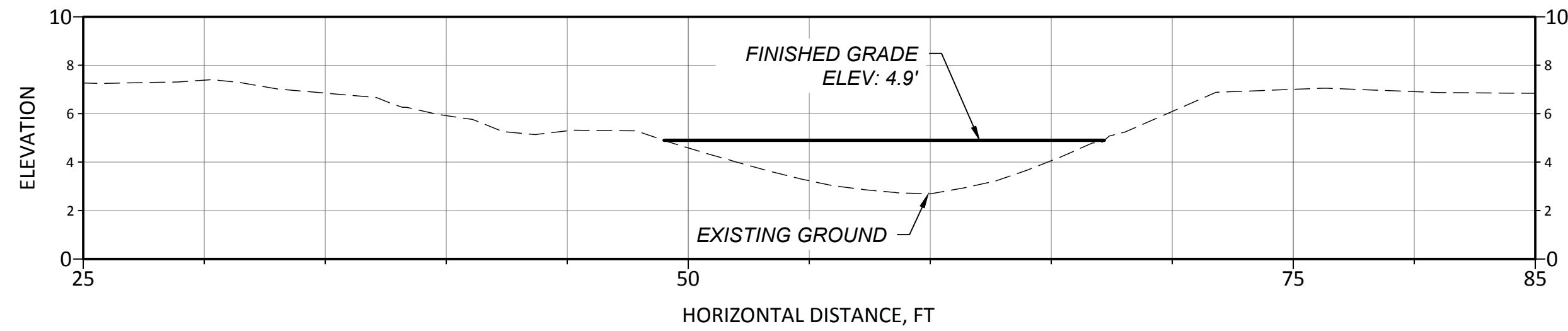
**E**  
**C8** **SEDIMENT REUSE SECTION - TYPE 5 FILL - NATURAL LEVEE ANALOG**  
SCALE: 1"=5'

- NOTES:
1. VEGETATION CLEARING AND STRIPPING FOR HAUL ROUTE SHALL BE DONE IN THE PRESENCE OF A BIOLOGICAL MONITOR.
  2. VEGETATION SHALL BE CLEARED IN TWO PASSES. THE FIRST PASS SHALL REDUCE VEGETATION TO 1' ABOVE GROUND. THE SECOND PASS SHALL REDUCE VEGETATION TO 3" ABOVE GROUND.
  3. SUBMIT A MOWING AND STRIPPING PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL.

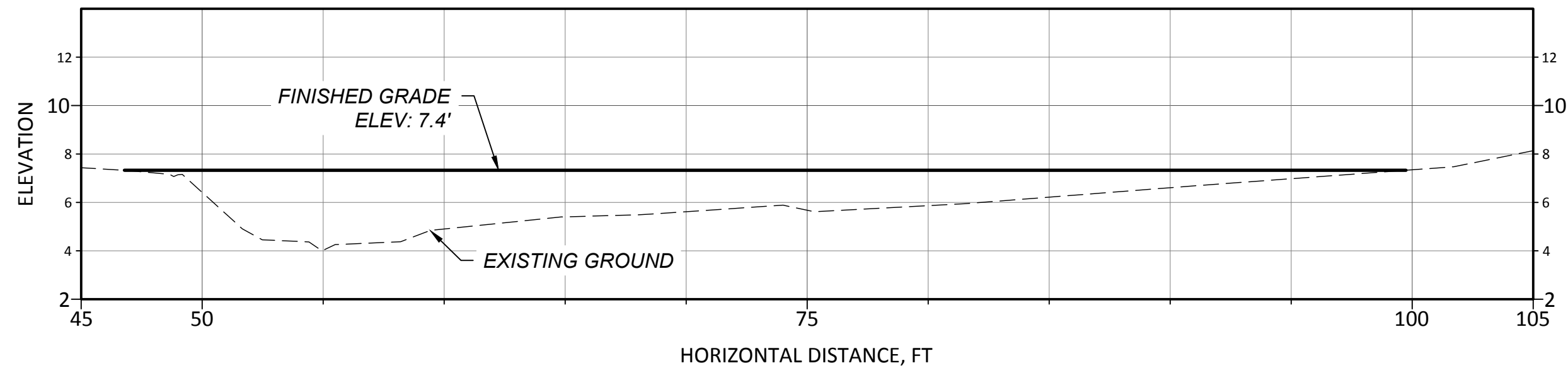


**G**  
**C11** **UPPER FLOODPLAIN BERM SECTION**  
SCALE: 1"=5'

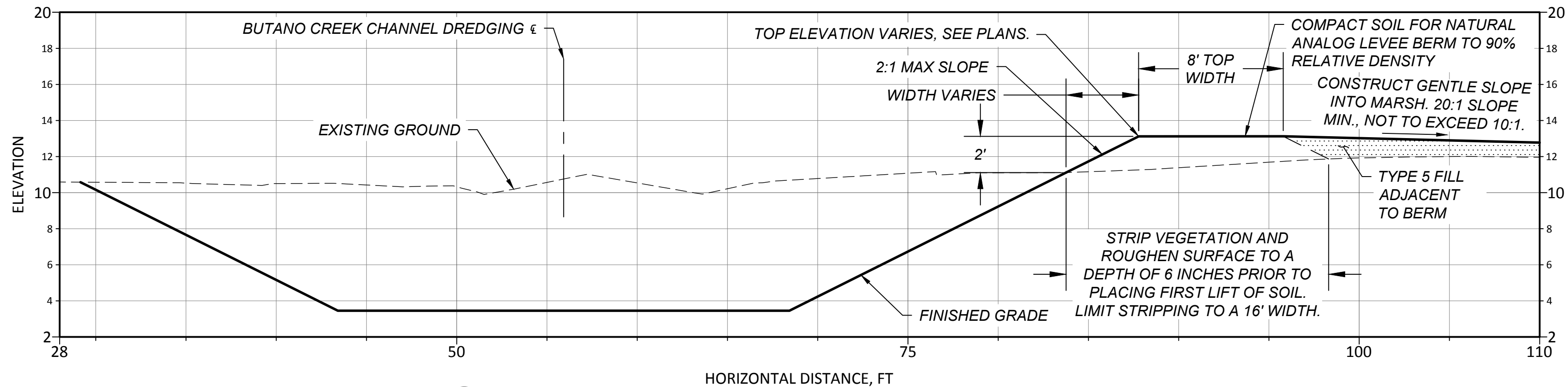
- NOTES:
1. TOP ELEVATION OF UPPER FLOODPLAIN BERM IS CONSTANT. HEIGHT OF BERM VARIES ACCORDING TO CHANGES IN EXISTING GROUND TOPOGRAPHY.
  2. ROUGHEN SOIL AND SEED PREPARED BERM SURFACE WITH STERILE BARLEY OR APPROVED EQUIVALENT PRIOR TO INSTALLING COIR FABRIC.
  3. INSTALL COIR FABRIC BY UNROLLING ROLL FROM WATERSIDE TO LANDSIDE OF BERM. INSTALL ROWS OF FABRIC WORKING FROM DOWNSTREAM TO UPSTREAM END OF BERM SO COIR FABRIC IS "SHINGLED" TO THE FLOW.
  4. COIR FABRIC INSTALLATION SHALL EXTEND 5' UPSTREAM OF THE LONGITUDINAL EXTENTS OF THE BERM AND SHALL BE TERMINATED IN AN ANCHOR TRENCH. SEE DETAIL 1, THIS SHEET.



**B**  
**C6** **SEDIMENT REUSE SECTION - TYPE 1 FILL**  
SCALE: 1"=5'

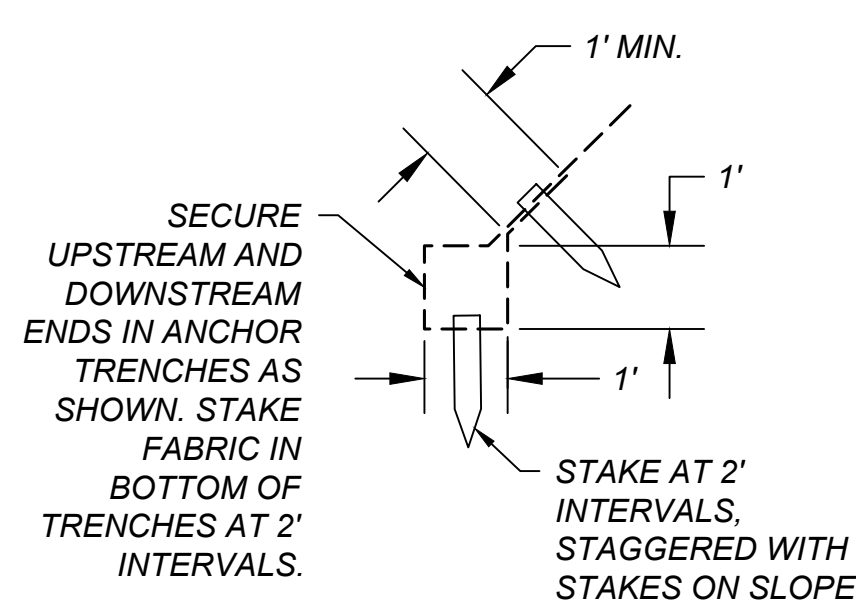


**D**  
**C7** **SEDIMENT REUSE SECTION - TYPE 4 FILL**  
SCALE: 1"=5'



**F**  
**C8** **UPPER BUTANO MARSH NATURAL LEVEE ANALOG - TYPICAL SECTION**  
SCALE: 1"=5'

- NOTES:
1. VEGETATION CLEARING AND STRIPPING FOR HAUL ROUTE AND BERM FOOTPRINT SHALL BE DONE IN THE PRESENCE OF A BIOLOGICAL MONITOR.
  2. VEGETATION SHALL BE CLEARED IN TWO PASSES. THE FIRST PASS SHALL REDUCE VEGETATION TO 1' ABOVE GROUND. THE SECOND PASS SHALL REDUCE VEGETATION TO 3" ABOVE GROUND.
  3. SUBMIT A MOWING AND STRIPPING PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL.



**1**  
**C14** **ANCHOR TRENCH DETAIL**  
NOT TO SCALE

5. PLANT UPPER FLOODPLAIN BERM WITH WILLOW AND ALDER CUTTINGS AFTER COIR FABRIC HAS BEEN INSTALLED. INSTALL POLES THROUGH THE COIR FABRIC WITHOUT CUTTING IT.
6. STAKE COIR AT 4' O.C. SPACING. OVERLAP EDGES OF COIR BY 8" MIN AND STAKE OVERLAPPED REGION IN ONE ROW AT 18" O.C.
7. INSTALL WILLOW AND ALDER CUTTINGS 3" INTO GROUND AND TRIM 6" ABOVE FINISHED GRADE AFTER INSTALLATION. WATER IN THOROUGHLY DURING INSTALLATION.





1

2

3

4

A

B

C

D

E

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                            |                             |
|--|--------|--------|----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                | END POINT                   |
| C1   | 155.8  | 191    | E:6006674.63 N: 1923562.50 | E: 6006633.16 N: 1923416.76 |
| C2   | 50.1   | 243    | E:6006633.16 N: 1923416.76 | E: 6006634.54 N: 1923366.81 |
| C3   | 151.5  | 1214   | E:6006634.54 N: 1923366.81 | E: 6006613.74 N: 1923216.80 |
| C4   | 127.4  | 237    | E:6006613.74 N: 1923216.80 | E: 6006622.43 N: 1923091.21 |
| C5   | 73.7   | 82     | E:6006622.43 N: 1923091.21 | E: 6006672.82 N: 1923040.85 |
| C6   | 35.9   | 54     | E:6006672.82 N: 1923040.85 | E: 6006700.52 N: 1923019.05 |
| C7   | 145.3  | 966    | E:6006700.52 N: 1923019.05 | E: 6006770.04 N: 1922891.58 |
| C8   | 278.5  | 582    | E:6006770.04 N: 1922891.58 | E: 6006939.85 N: 1922674.25 |
| C9   | 47.8   | 1320   | E:6006939.85 N: 1922674.25 | E: 6006976.84 N: 1922643.95 |
| C10  | 207.5  | 524    | E:6006976.84 N: 1922643.95 | E: 6007157.07 N: 1922543.93 |
| C11  | 71.7   | 1546   | E:6007157.07 N: 1922543.93 | E: 6007224.85 N: 1922520.57 |
| C12  | 77.1   | 405    | E:6007224.85 N: 1922520.57 | E: 6007294.19 N: 1922487.04 |
| C13  | 48.4   | 76     | E:6007294.19 N: 1922487.04 | E: 6007340.61 N: 1922476.43 |
| C14  | 260.5  | 1531   | E:6007340.61 N: 1922476.43 | E: 6007600.79 N: 1922479.24 |
| C15  | 87.6   | 798    | E:6007600.79 N: 1922479.24 | E: 6007688.29 N: 1922477.54 |
| C16  | 239.9  | 3892   | E:6007688.29 N: 1922477.54 | E: 6007928.19 N: 1922478.66 |
| C17  | 107.1  | 338    | E:6007928.19 N: 1922478.66 | E: 6008033.03 N: 1922459.09 |
| C18  | 110.5  | 1304   | E:6008033.03 N: 1922459.09 | E: 6008138.57 N: 1922426.38 |
| C19  | 25.6   | 39     | E:6008138.57 N: 1922426.38 | E: 6008159.44 N: 1922412.45 |
| C20  | 81.1   | 336    | E:6008159.44 N: 1922412.45 | E: 6008200.37 N: 1922342.72 |

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                             |                             |
|--|--------|--------|-----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                 | END POINT                   |
| C76  | 60.7   | 505    | E:6008744.15 N: 1920259.36  | E: 6008794.58 N: 1920225.65 |
| C77  | 62.6   | 1368   | E:6008794.58 N: 1920225.65  | E: 6008845.30 N: 1920188.93 |
| C78  | 51.2   | 1237   | E:6008845.30 N: 1920188.93  | E: 6008886.87 N: 1920158.99 |
| C79  | 36.9   | 190    | E:6008886.87 N: 1920158.99  | E: 6008914.04 N: 1920134.06 |
| C80  | 30.0   | 296    | E:6008914.04 N: 1920134.06  | E: 6008935.20 N: 1920112.74 |
| C81  | 13.6   | 409    | E:6008935.20 N: 1920112.74  | E: 6008945.42 N: 1920103.75 |
| C82  | 7.0    | 81     | E:6008945.42 N: 1920103.75  | E: 6008950.90 N: 1920099.48 |
| L6   | 105.8  |        | E: 6008950.90 N: 1920099.48 | E: 6009037.07 N: 1920038.03 |
| C83  | 34.8   | 71     | E:6009037.07 N: 1920038.03  | E: 6009059.48 N: 1920011.82 |
| L21  | 91.6   |        | E: 6009059.48 N: 1920011.82 | E: 6009100.42 N: 1919929.90 |
| C84  | 31.0   | 102    | E:6009100.42 N: 1919929.90  | E: 6009118.23 N: 1919904.71 |
| C85  | 62.8   | 995    | E:6009118.23 N: 1919904.71  | E: 6009160.37 N: 1919858.17 |
| C86  | 23.1   | 65     | E:6009160.37 N: 1919858.17  | E: 6009178.15 N: 1919843.57 |
| L7   | 46.2   |        | E: 6009178.15 N: 1919843.57 | E: 6009218.51 N: 1919821.09 |
| C87  | 16.1   | 176    | E:6009218.51 N: 1919821.09  | E: 6009232.93 N: 1919813.90 |
| L8   | 95.6   |        | E: 6009232.93 N: 1919813.90 | E: 6009320.34 N: 1919775.21 |
| C88  | 26.8   | 187    | E:6009320.34 N: 1919775.21  | E: 6009345.53 N: 1919766.16 |
| L9   | 166.7  |        | E: 6009345.53 N: 1919766.16 | E: 6009505.99 N: 1919721.13 |
| C89  | 24.4   | 180    | E:6009505.99 N: 1919721.13  | E: 6009528.93 N: 1919712.98 |
| L10  | 43.9   |        | E: 6009528.93 N: 1919712.98 | E: 6009569.26 N: 1919695.52 |

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                             |                             |
|--|--------|--------|-----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                 | END POINT                   |
| C21  | 20.3   | 54     | E:6008200.37 N: 1922342.72  | E: 6008204.81 N: 1922322.99 |
| C22  | 62.2   | 1721   | E:6008204.81 N: 1922322.99  | E: 6008205.70 N: 1922260.80 |
| C23  | 28.1   | 168    | E:6008205.70 N: 1922260.80  | E: 6008203.25 N: 1922232.87 |
| C24  | 49.5   | 354    | E:6008203.25 N: 1922232.87  | E: 6008191.48 N: 1922184.85 |
| C25  | 32.6   | 196    | E:6008191.48 N: 1922184.85  | E: 6008184.14 N: 1922153.09 |
| C26  | 42.6   | 62     | E:6008184.12 N: 1922152.97  | E: 6008164.03 N: 1922116.32 |
| L1   | 213.9  |        | E: 6008164.03 N: 1922116.32 | E: 6008004.25 N: 1921974.16 |
| C27  | 26.3   | 297    | E:6008004.25 N: 1921974.16  | E: 6007984.98 N: 1921956.20 |
| C28  | 190.7  | 1208   | E:6007984.98 N: 1921956.20  | E: 6007830.68 N: 1921844.40 |
| C29  | 148.4  | 670    | E:6007830.68 N: 1921844.40  | E: 6007713.54 N: 1921753.70 |
| C30  | 99.5   | 15132  | E:6007713.54 N: 1921753.70  | E: 6007642.31 N: 1921684.23 |
| C31  | 36.6   | 53     | E:6007642.31 N: 1921684.23  | E: 6007626.64 N: 1921651.96 |
| C32  | 78.2   | 210    | E:6007626.64 N: 1921651.96  | E: 6007604.04 N: 1921577.62 |
| C33  | 31.8   | 488    | E:6007604.04 N: 1921577.62  | E: 6007588.39 N: 1921549.90 |
| C34  | 19.5   | 48     | E:6007588.39 N: 1921549.90  | E: 6007581.89 N: 1921531.70 |
| C35  | 31.9   | 170    | E:6007581.89 N: 1921531.70  | E: 6007574.53 N: 1921500.69 |
| C36  | 32.1   | 9212   | E:6007574.53 N: 1921500.69  | E: 6007564.17 N: 1921470.32 |
| C37  | 14.7   | 62     | E:6007564.17 N: 1921470.32  | E: 6007557.79 N: 1921457.09 |
| C38  | 28.7   | 209    | E:6007557.79 N: 1921457.09  | E: 6007540.72 N: 1921434.04 |
| C39  | 18.6   | 134    | E:6007540.72 N: 1921434.04  | E: 6007529.70 N: 1921419.13 |

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                             |                             |
|--|--------|--------|-----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                 | END POINT                   |
| C90  | 30.6   | 109    | E:6009569.26 N: 1919695.52  | E: 6009595.27 N: 1919679.60 |
| L11  | 105.6  |        | E: 6009595.27 N: 1919679.60 | E: 6009676.77 N: 1919612.41 |
| C91  | 46.8   | 190    | E:6009676.77 N: 1919612.41  | E: 6009708.88 N: 1919578.49 |
| L12  | 70.5   |        | E: 6009708.88 N: 1919578.49 | E: 6009750.69 N: 1919521.71 |
| C92  | 44.4   | 253    | E:6009750.69 N: 1919521.71  | E: 6009773.77 N: 1919483.79 |
| C93  | 72.8   | 306    | E:6009773.77 N: 1919483.79  | E: 6009813.45 N: 1919422.93 |
| L13  | 86.0   |        | E: 6009813.45 N: 1919422.93 | E: 6009868.63 N: 1919356.99 |
| C94  | 36.5   | 200    | E:6009868.63 N: 1919356.99  | E: 6009889.35 N: 1919327.06 |
| L14  | 56.2   |        | E: 6009889.35 N: 1919327.06 | E: 6009917.02 N: 1919278.12 |
| C95  | 27.6   | 200    | E:6009917.02 N: 1919278.12  | E: 6009928.89 N: 1919253.28 |
| L15  | 36.4   |        | E: 6009928.89 N: 1919253.28 | E: 6009942.27 N: 1919219.45 |
| C96  | 35.1   | 200    | E:6009942.27 N: 1919219.45  | E: 6009952.26 N: 1919185.86 |
| L16  | 43.9   |        | E: 6009952.26 N: 1919185.86 | E: 6009960.42 N: 1919142.76 |
| C97  | 42.1   | 200    | E:6009960.42 N: 1919142.76  | E: 6009963.85 N: 1919100.87 |
| L17  | 10.3   |        | E: 6009963.85 N: 1919100.87 | E: 6009963.61 N: 1919090.53 |
| C98  | 50.7   | 200    | E:6009963.61 N: 1919090.53  | E: 6009956.05 N: 1919040.56 |
| L18  | 50.1   |        | E: 6009956.05 N: 1919040.56 | E: 6009942.34 N: 1918992.35 |
| C99  | 3.0    | 200    | E:6009942.34 N: 1918992.35  | E: 6009941.49 N: 1918989.44 |
| L19  | 60.7   |        | E: 6009941.49 N: 1918989.44 | E: 6009924.01 N: 1918931.29 |
| C100   | 19.0   | 73     | E:6009924.01 N: 1918931.29  | E: 6009920.95 N: 1918912.57 |

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                             |                             |
|--|--------|--------|-----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                 | END POINT                   |
| C40  | 57.2   | 3200   | E:6007529.70 N: 1921419.13  | E: 6007498.56 N: 1921371.20 |
| C41  | 24.0   | 173    | E:6007498.56 N: 1921371.20  | E: 6007486.74 N: 1921350.36 |
| C42  | 14.4   | 523    | E:6007486.74 N: 1921350.36  | E: 6007480.72 N: 1921337.30 |
| C43  | 8.4    | 18     | E:6007480.72 N: 1921337.30  | E: 6007475.63 N: 1921330.66 |
| C44  | 31.6   | 1960   | E:6007475.63 N: 1921330.66  | E: 6007451.24 N: 1921310.52 |
| C45  | 36.4   | 3204   | E:6007451.24 N: 1921310.52  | E: 6007423.47 N: 1921286.94 |
| C46  | 19.8   | 103    | E:6007423.47 N: 1921286.94  | E: 6007409.79 N: 1921272.70 |
| C47  | 52.2   | 68     | E:6007409.79 N: 1921272.70  | E: 6007395.58 N: 1921223.85 |
| C48  | 25.3   | 55     | E:6007395.58 N: 1921223.85  | E: 6007403.75 N: 1921200.19 |
| C49  | 49.4   | 1684   | E:6007403.75 N: 1921200.19  | E: 6007430.69 N: 1921158.81 |
| C50  | 23.6   | 79     | E:6007430.69 N: 1921158.81  | E: 6007446.57 N: 1921141.46 |
| C51  | 92.4   | 3778   | E:6007446.57 N: 1921141.46  | E: 6007517.65 N: 1921082.48 |
| C52  | 38.3   | 98     | E:6007517.65 N: 1921082.48  | E: 6007541.31 N: 1921052.67 |
| C53  | 13.8   | 120    | E:6007541.31 N: 1921052.67  | E: 6007546.93 N: 1921040.03 |
| C54  | 16.2   | 20     | E:6007546.93 N: 1921040.03  | E: 6007557.85 N: 1921028.73 |
| C55  | 39.5   | 833    | E:6007557.85 N: 1921028.73  | E: 6007593.94 N: 1921012.76 |
| C56  | 12.5   | 31     | E:6007593.94 N: 1921012.76  | E: 6007606.00 N: 1921009.86 |
| C57  | 7.4    | 71     | E:6007606.00 N: 1921009.86  | E: 6007613.34 N: 1921009.25 |
| L2   | 109.2  |        | E: 6007613.34 N: 1921009.25 | E: 6007721.49 N: 1920994.52 |
| C58  | 36.3   | 126    | E:6007721.49 N: 1920994.52  | E: 6007756.29 N: 1920984.54 |

| BUTANO CREEK DREDGE CHANNEL ALIGNMENT GEOMETRY |        |        |                             |                             |
|--|--------|--------|-----------------------------|-----------------------------|
| NUMBER   | LENGTH | RADIUS | START POINT                 | END POINT                   |
| C59  | 119.8  | 2321   | E:6007756.29 N: 1920984.54  | E: 6007864.21 N: 1920932.53 |
| C60  | 9.1    | 20     | E:6007864.21 N: 1920932.53  | E: 6007871.08 N: 1920926.72 |
| L3   | 132.6  |        | E: 6007871.08 N: 1920926.72 | E: 6007950.49 N: 1920820.56 |
| C61  | 21.7   | 539    | E:6007950.49 N: 1920820.56  | E: 6007963.13 N: 1920802.94 |
| L4   | 158.6  |        | E: 6007963.13 N: 1920802.94 | E: 6008052.96 N: 1920672.20 |
| C62  | 19.5   | 58     | E:6008052.96 N: 1920672.20  | E: 6008061.10 N: 1920654.62 |
| C63  | 51.3   | 374    | E:6008061.10 N: 1920654.62  | E: 6008077.88 N: 1920606.22 |
| C64  | 16.5   | 52     | E:6008077.88 N: 1920606.22  | E: 6008086.60 N: 1920592.31 |
| L5   | 85.5   |        | E: 6008086.60 N: 1920592.31 | E: 6008142.77 N: 1920527.85 |
| C65  | 22.1   | 53     | E:6008142.77 N: 1920527.85  | E: 6008160.29 N: 1920514.63 |
| C66  | 87.3   | 5713   | E:6008160.29 N: 1920514.63  | E: 6008239.63 N: 1920478.17 |
| C67  | 118.4  | 15736  | E:6008239.63 N: 1920478.17  | E: 6008347.38 N: 1920429.16 |
| C68  | 78.3   | 8255   | E:6008347.38 N: 1920429.16  | E: 6008418.69 N: 1920396.81 |
| C69  | 123.5  | 16810  | E:6008418.69 N: 1920396.81  | E: 6008531.59 N: 1920346.73 |
| C70  | 45.3   | 173    | E:6008531.59 N: 1920346.73  | E: 6008574.95 N: 1920334.11 |
| C71  | 45.7   | 1289   | E:6008574.95 N: 1920334.11  | E: 6008620.02 N: 1920326.35 |
| C72  | 21.9   | 73     | E:6008620.02 N: 1920326.35  | E: 6008640.63 N: 1920319.08 |
| C73  | 44.8   | 53532  | E:6008640.63 N: 1920319.08  | E: 6008680.12 N: 1920298.00 |
| C74  | 17.1   | 228    | E:6008680.12 N: 1920298.00  | E: 6008694.93 N: 1920289.36 |
| C75  | 57.6   | 1578   | E:6008694.93 N: 1920289.36  | E: 6008744.15 N: 1920259.36 |



SAN MATEO  
RESOURCE CONSERVATION DISTRICT  
80 STONE PINE ROAD #100  
HALF MOON BAY, CA 94019  
(650) 712-7765

CALIFORNIA  
BUTANO CREEK CHANNEL RECONNECTION  
AND RESILIENCE PROJECT  
ALIGNMENT GEOMETRY TABLE

PESCADERO  
JOB NUMBER  
16-1027-3  
DATE  
OCT 2018  
SHEET  
C15  
15 OF 19

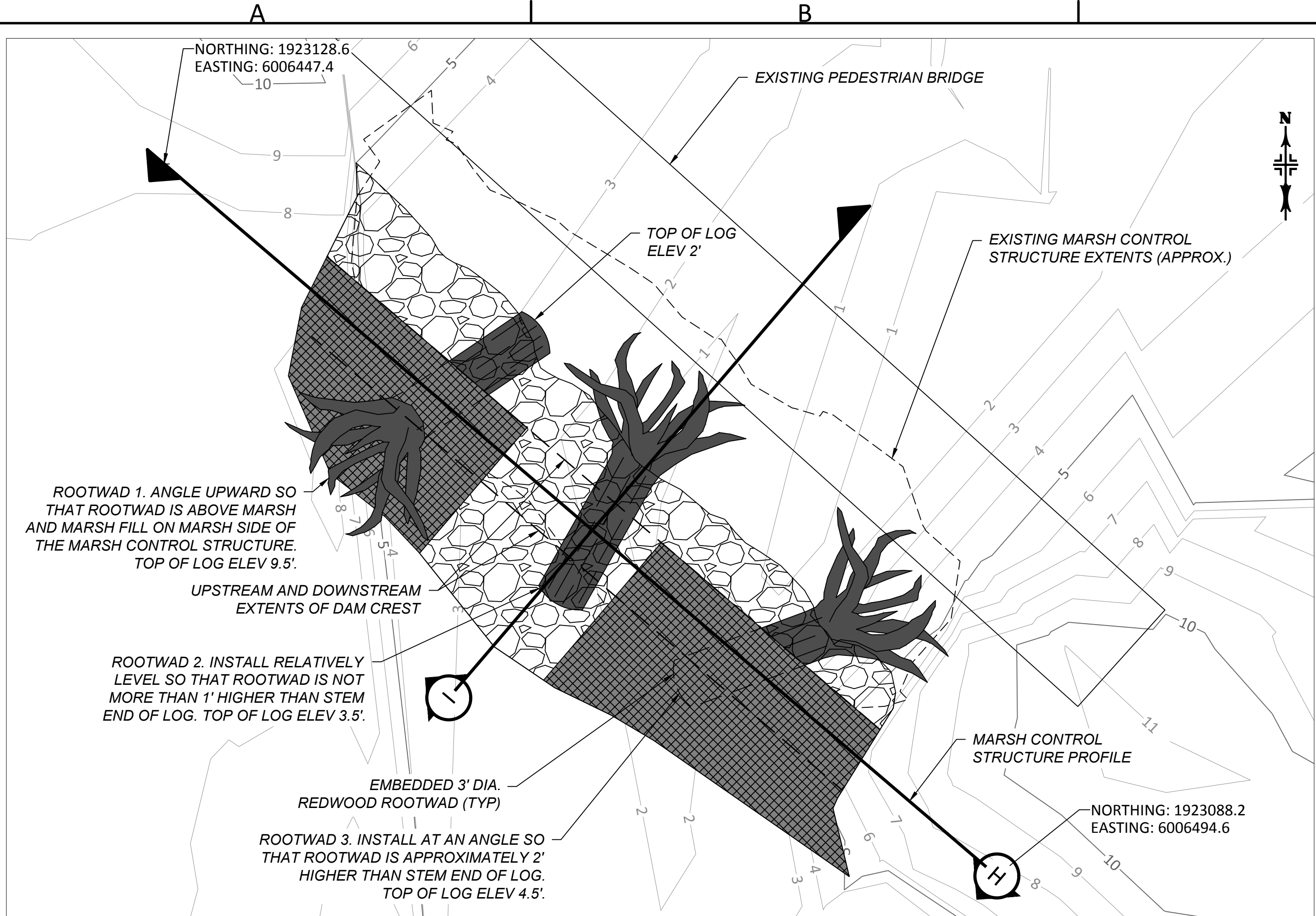


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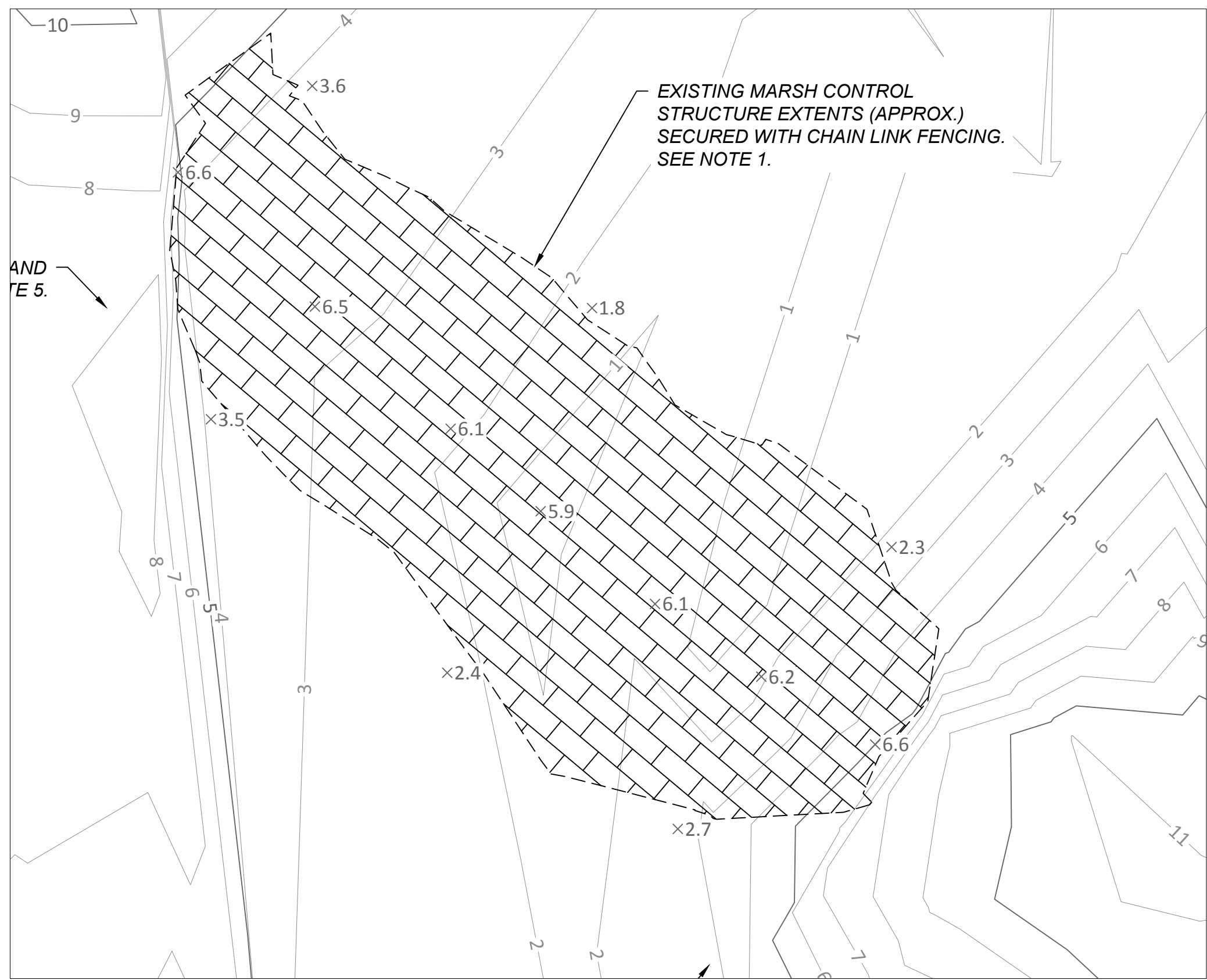
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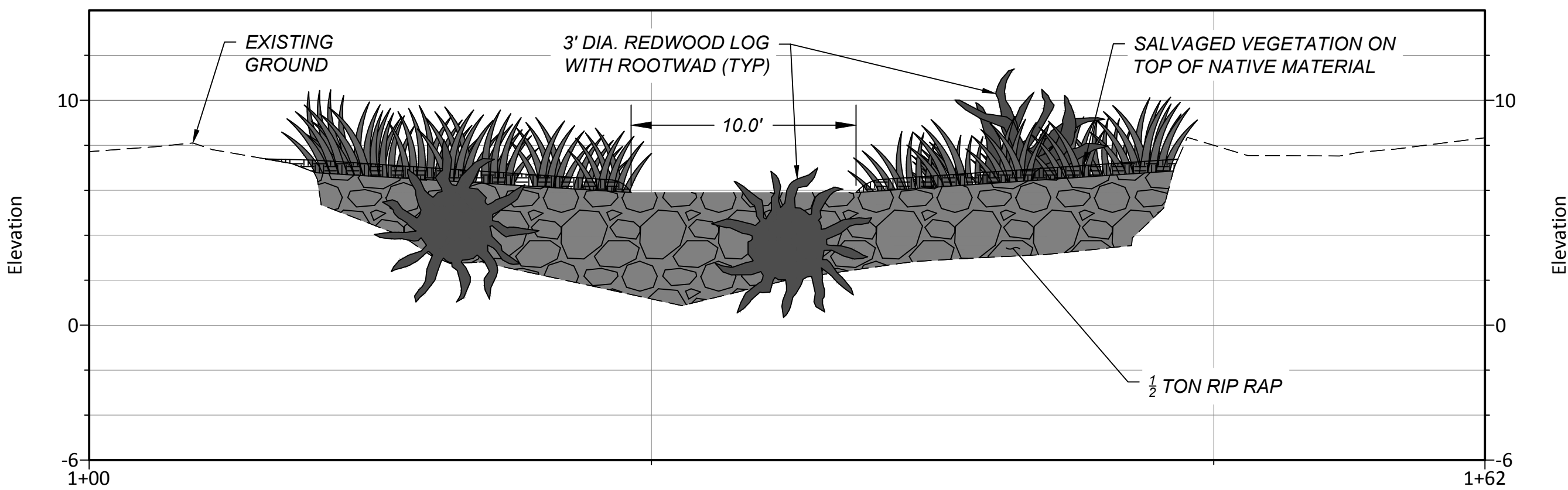
**MARSH CONTROL STRUCTURE PLAN**  
SCALE: HORIZONTAL 1"=5'



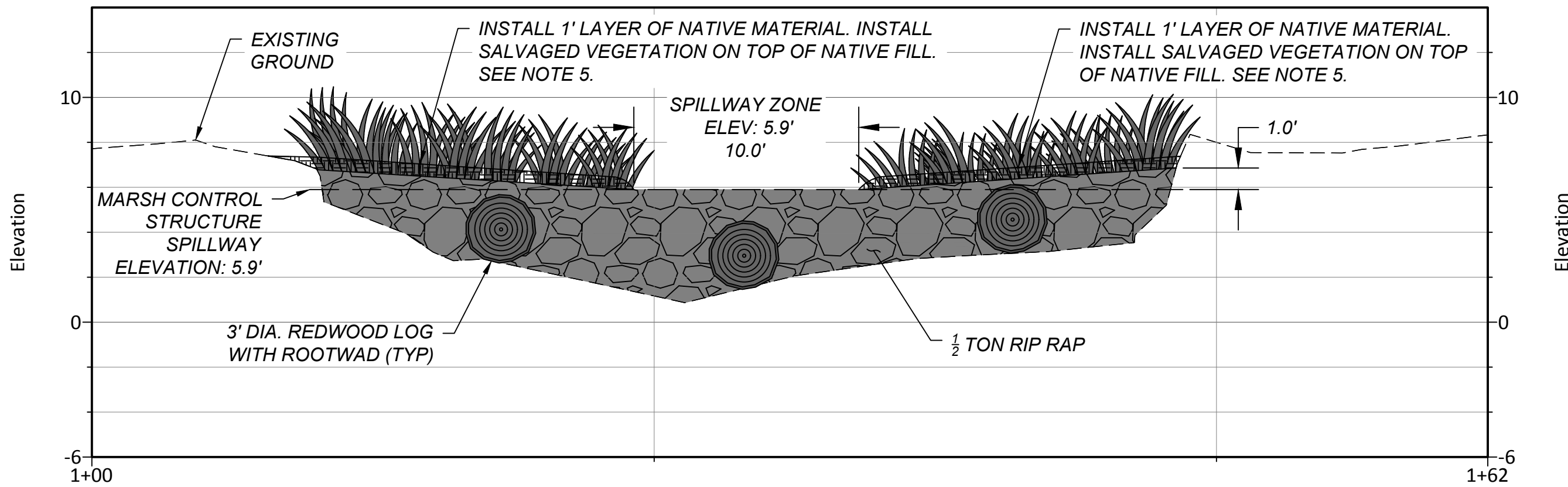
**EXISTING STRUCTURE DEMOLITION PLAN**  
SCALE: HORIZONTAL 1"=5'

**NOTE:**

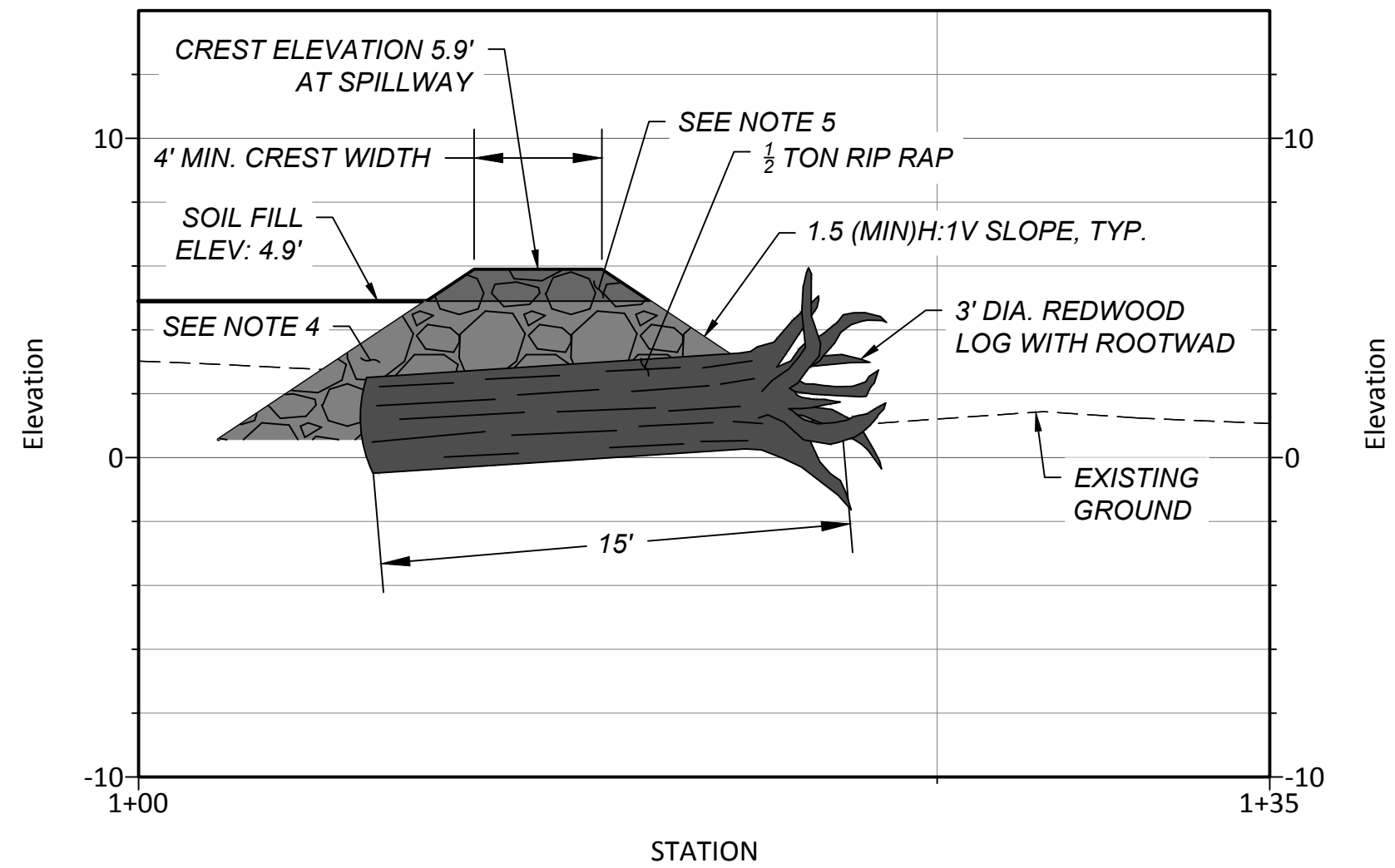
1. REMOVE AND LEGALLY DISPOSE OF EXISTING CHAIN LINK FENCING AND CONNECTION HARDWARE OFFSITE. REMOVE APPROXIMATELY 5,000 SANDBAGS AND COORDINATE WITH OWNER'S REPRESENTATIVE ON SANDBAG DISPOSAL METHOD AND LOCATION.
2. CONSTRUCT MARSH CONTROL STRUCTURE USING 1/2 TON CLASS RIPRAP.
3. EXCAVATE NATIVE SOIL IN BERM FOOTPRINT BY 1' MINIMUM BELOW EXISTING GROUND TO CREATE A LEVEL FOUNDATION AND A KEY FOR THE BERM.
4. BELOW ELEV 4.9'; BACKFILL VOIDS IN ROCK WITH 3/4" CRUSHED ROCK, RODDING CRUSHED ROCK INTO PLACE TO ENSURE VOIDS ARE FILLED.
5. ABOVE ELEV 4.9'; BACKFILL VOIDS IN ROCK WITH NATIVE MATERIAL, RODDING NATIVE MATERIAL INTO PLACE TO ENSURE VOIDS ARE FILLED.
6. INSTALL 1" THICK LAYER OF NATIVE MATERIAL ON TOP OF RIPRAP ALONG CREST AS SHOWN IN SECTION I. INSTALL SALVAGED VEGETATION ON TOP OF NATIVE MATERIAL. COORDINATE WITH OWNER'S REPRESENTATIVE TO IDENTIFY AND HARVEST AND INSTALL SALVAGED VEGETATION. SALVAGED VEGETATION SHALL BE INSTALLED AFTER BUTANO CHANNEL (TYPE 1 FILL) HAS BEEN FILLED UP TO THE MARSH CONTROL STRUCTURE. COVER THE CREST OF THE MARSH CONTROL STRUCTURE AND GROUND 3' INTO THE MARSH. SECURE SALVAGED VEGETATION UNDER ROCKS 9" DIA. MIN. PLACED AT 5' O.C. IN 3 ROWS, STAGGERING PLACEMENT BETWEEN ROWS.
7. ELEVATIONS SHOWN FOR LOG PLACEMENT ARE APPROXIMATE. COORDINATE WITH OWNER'S REPRESENTATIVE DURING LOG PLACEMENT.



**MARSH CONTROL STRUCTURE ELEVATION**  
SCALE: 1"=5'



**MARSH CONTROL STRUCTURE PROFILE**  
SCALE: 1"=5'



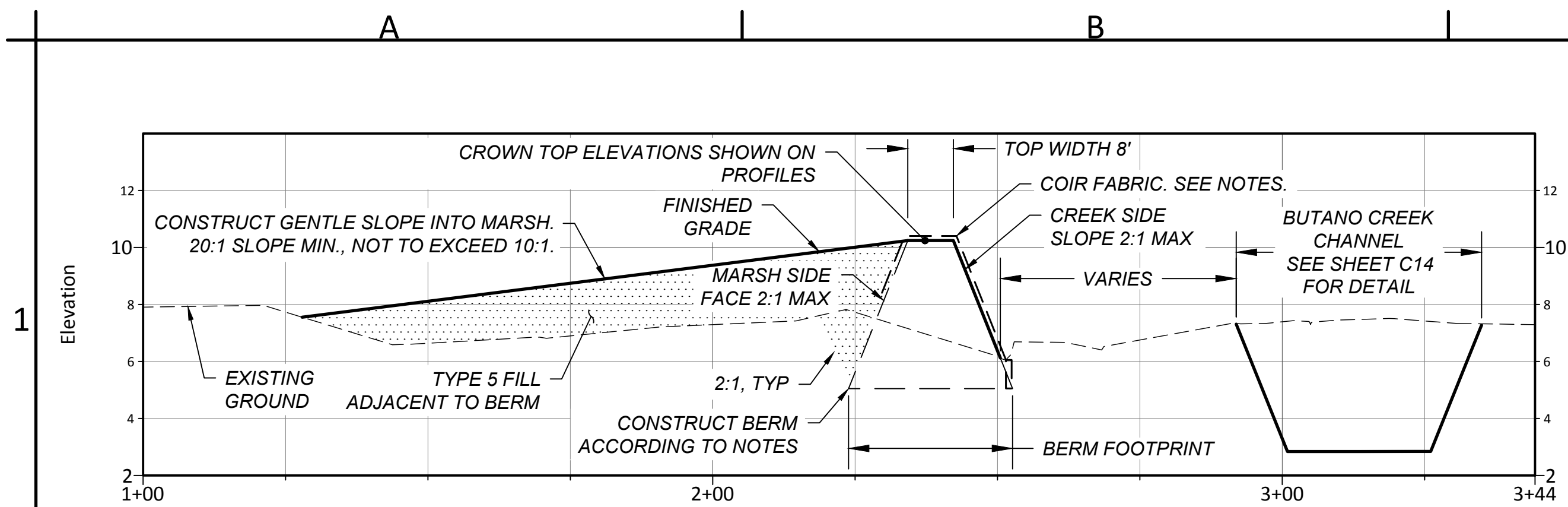
**MARSH CONTROL STRUCTURE SECTION**  
SCALE: 1"=5'

0 5 10 15 FT

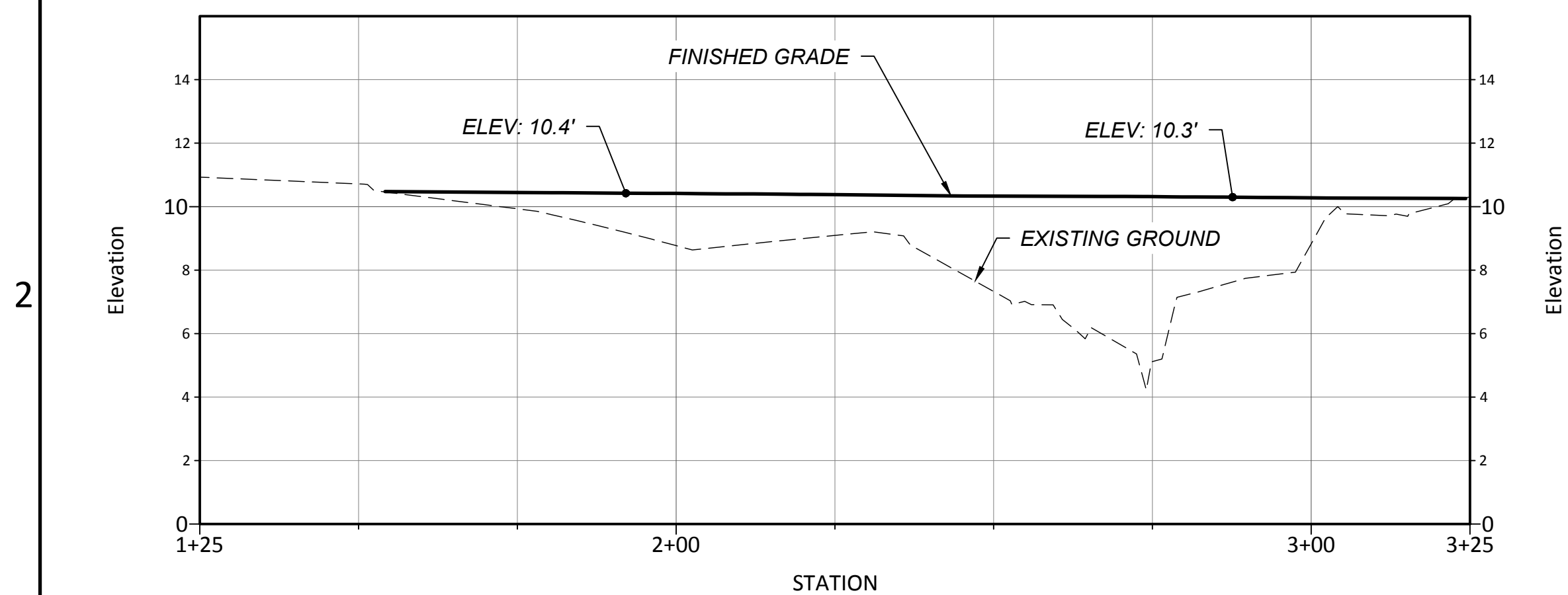
1" = 5'





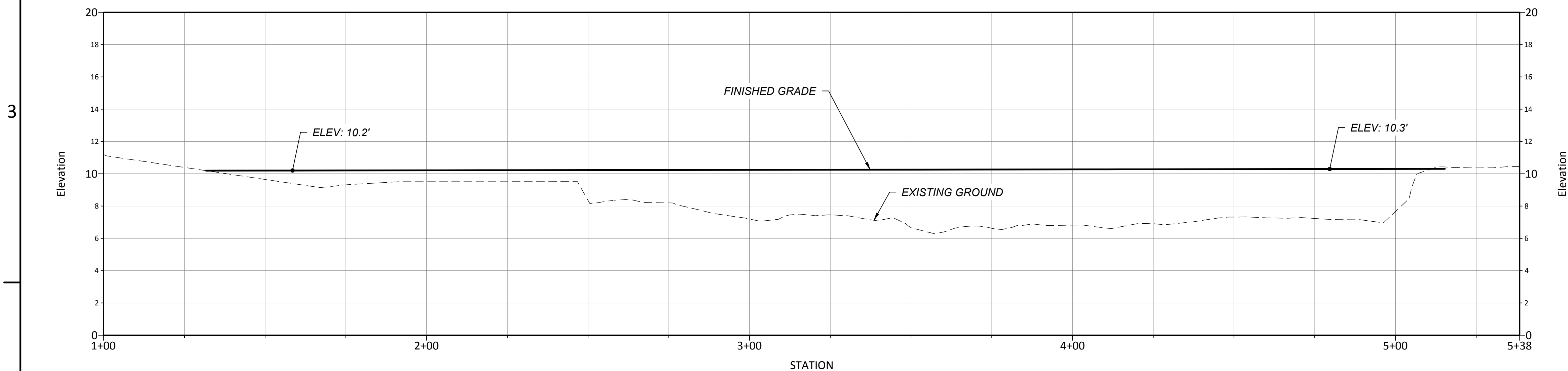


**WATER QUALITY BERM ENHANCEMENT TYPICAL SECTION**  
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'





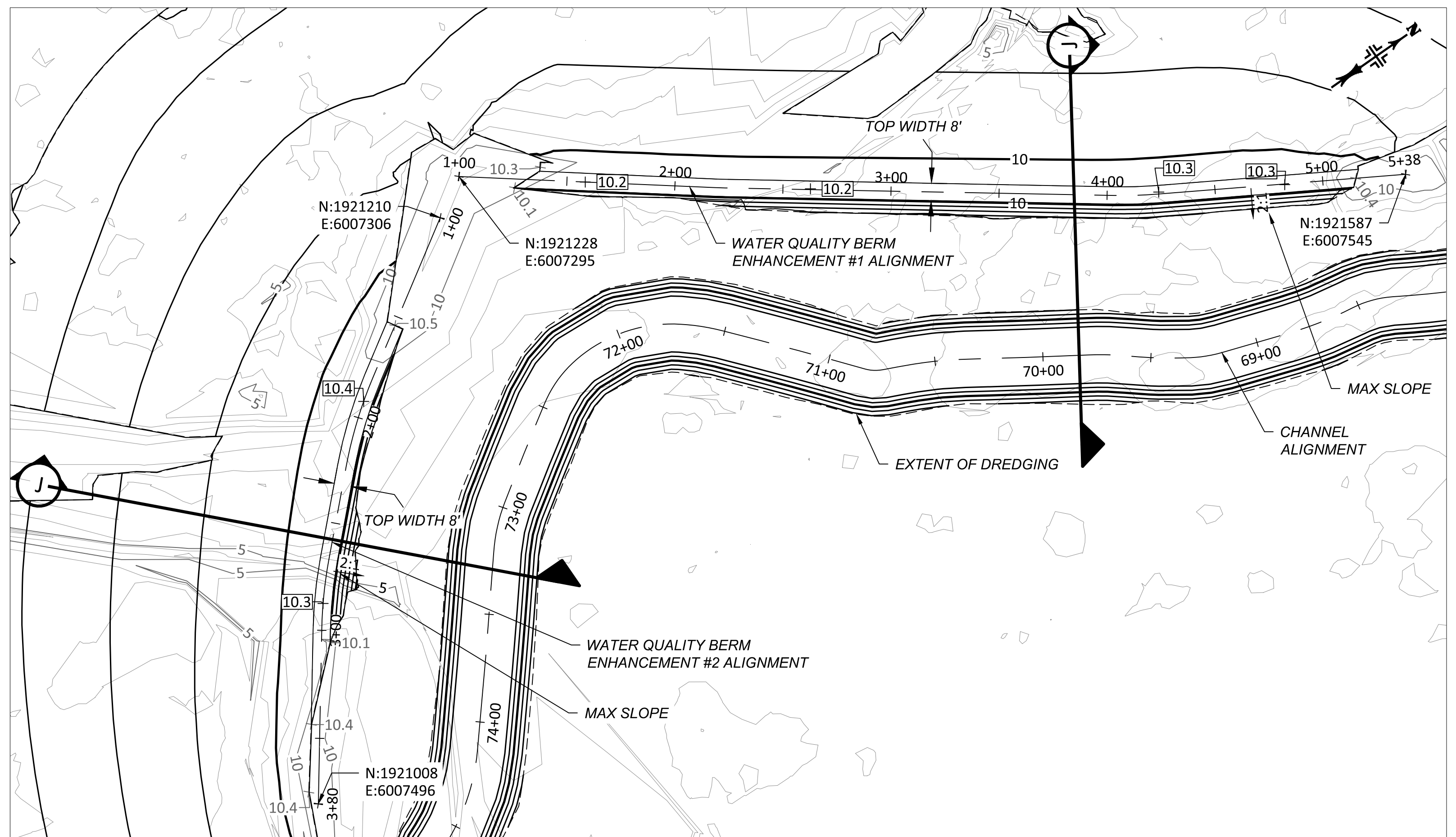
**WATER QUALITY BERM ENHANCEMENT #2 PROFILE**  
 SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'



WATER QUALITY BERM ENHANCEMENT #1 PROFILE  
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=4'

NOTES:

- |   |  |
|---|--|
| <p>1. CONSTRUCT BERM OF COMPETENT MATERIAL EXCAVATED FROM BUTANO CREEK CHANNEL THAT IS FREE OF CONCENTRATIONS OF ORGANIC MATERIAL, CONTAMINATED OR DELETERIOUS MATERIAL, AND DEBRIS AND PARTICLES GREATER THAN 3 INCHES IN MAXIMUM DIMENSION. COMPACT APPROVED NATIVE MATERIAL TO 90% OF MAXIMUM RELATIVE DENSITY IN LIFTS NO GREATER THAN 8 INCHES.</p> <p>2. EXCAVATE NATIVE SOIL IN BERM FOOTPRINT BY 1' MINIMUM BELOW EXISTING GROUND TO CREATE A LEVEL FOUNDATION AND A KEY FOR THE BERM.</p> <p>3. PRIOR TO COMPACTION OF NATIVE MATERIAL SCARIFY NATIVE SUBGRADE TO A DEPTH OF 6 INCHES, UNIFORMLY MOISTURE-CONDITION OR AERATE TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90% RELATIVE COMPACTION. IF A PUMPING CONDITION IS OBSERVED, FILL SHALL BE REMOVED, MOISTURE REMOVED AND RECOMPACTED UNTIL SPECIFIED COMPACTION IS ACHIEVED AND PUMPING NO LONGER OCCURS.</p> | <p>PENETRATION OF ROOTS. LOOSEN TOP 4 INCHES OF SOIL ON CREEK SIDE FACE AND CROWN PRIOR TO SEEDING. ROUGHEN MARSH SIDE FACE TO 6 INCHES DEPTH PRIOR TO COMPACTING SLOPE FILL ADJACENT TO BERM AGAINST IT.</p> <p>5. TYPE 5 FILL ADJACENT TO BERM - COMPACT TO 80% RELATIVE DENSITY, MAXIMUM.</p> <p>6. INSTALL COIR FABRIC BY UNROLLING ROLL FROM WATERSIDE TO LANDSIDE OF BERM. INSTALL ROWS OF FABRIC WORKING FROM DOWNSTREAM TO UPSTREAM END OF BERM SO COIR FABRIC IS "SHINGLED" TO THE FLOW.</p> <p>7. COIR FABRIC INSTALLATION SHALL EXTEND 5' UPSTREAM OF THE LONGITUDINAL EXTENTS OF THE BERM. TERMINATE COIR FABRIC IN AN ANCHOR TRENCH ON THE CREEK SIDE. SEE DETAIL 1, SHEET C14. STAKE AND BURY COIR FABRIC UNDER FILL ADJACENT TO BERM ON MARSH SIDE.</p> |
|---|--|



WATER QUALITY BERM ENHANCEMENT PLAN  
SCALE: 1"=40'


$$1'' = 40'$$

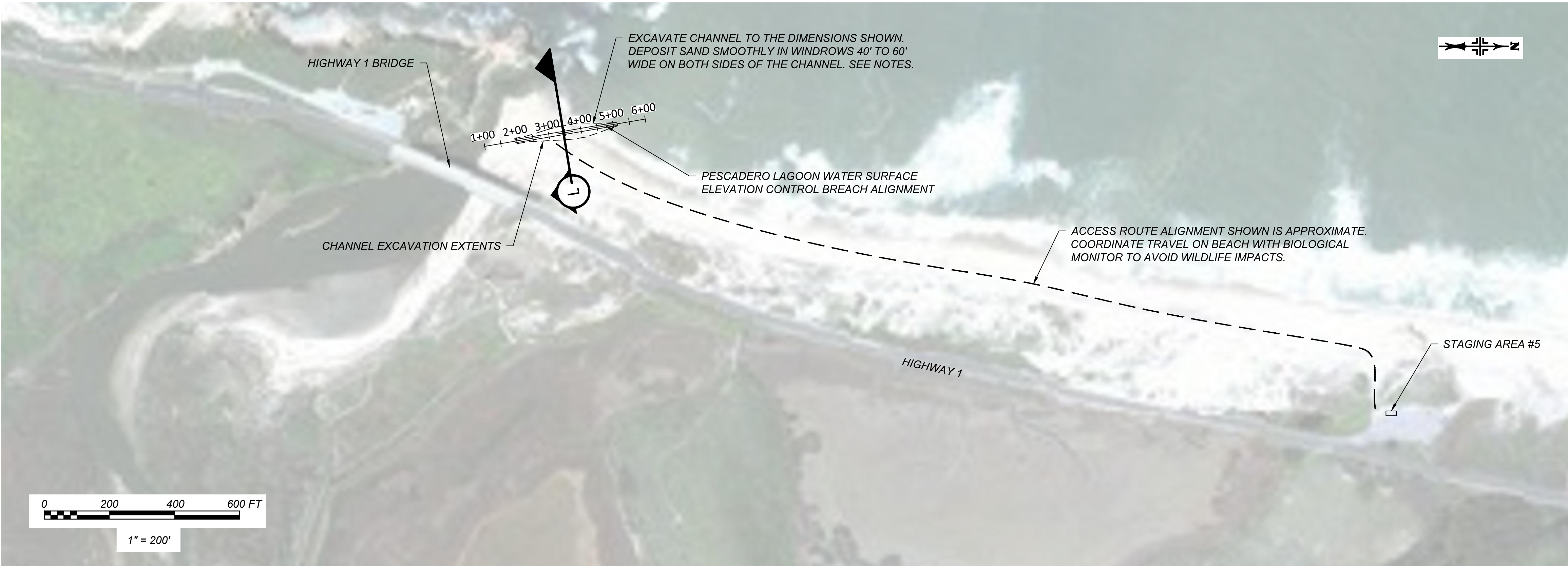
$$1'' = 20'$$

$$1'' = 4'$$

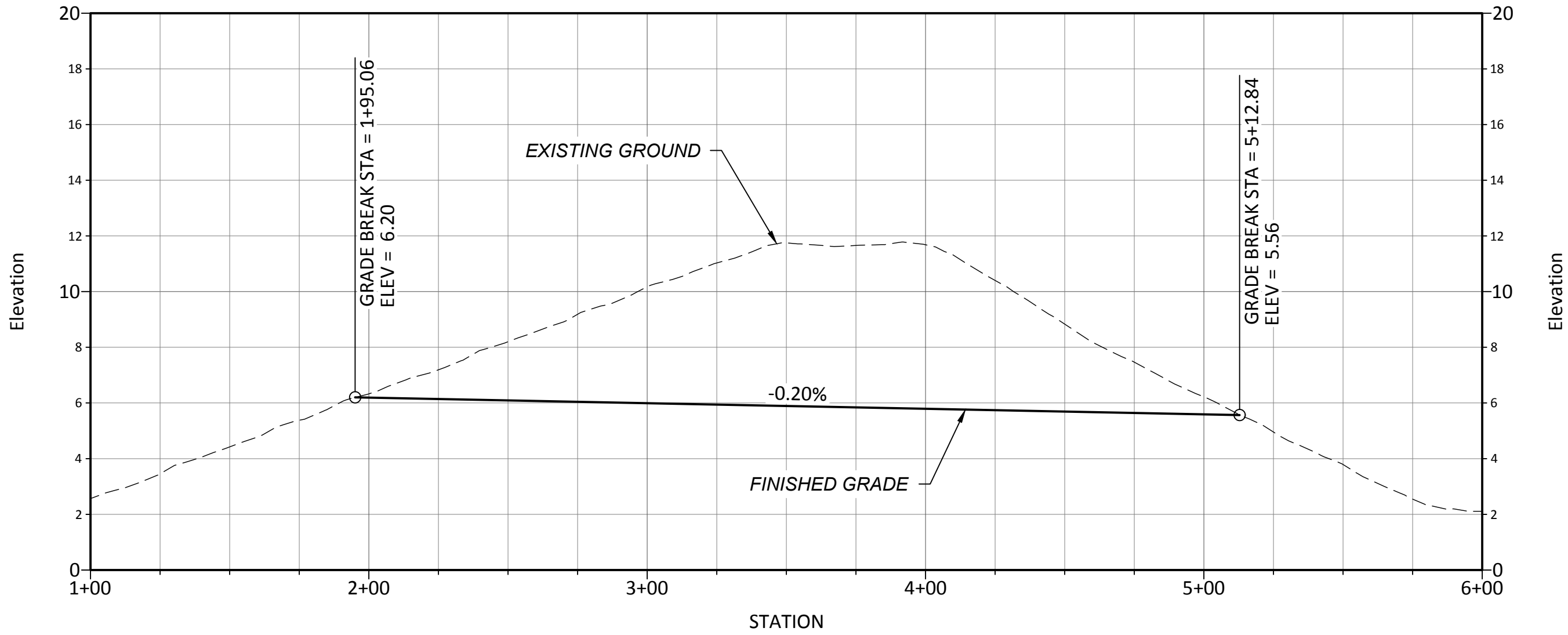




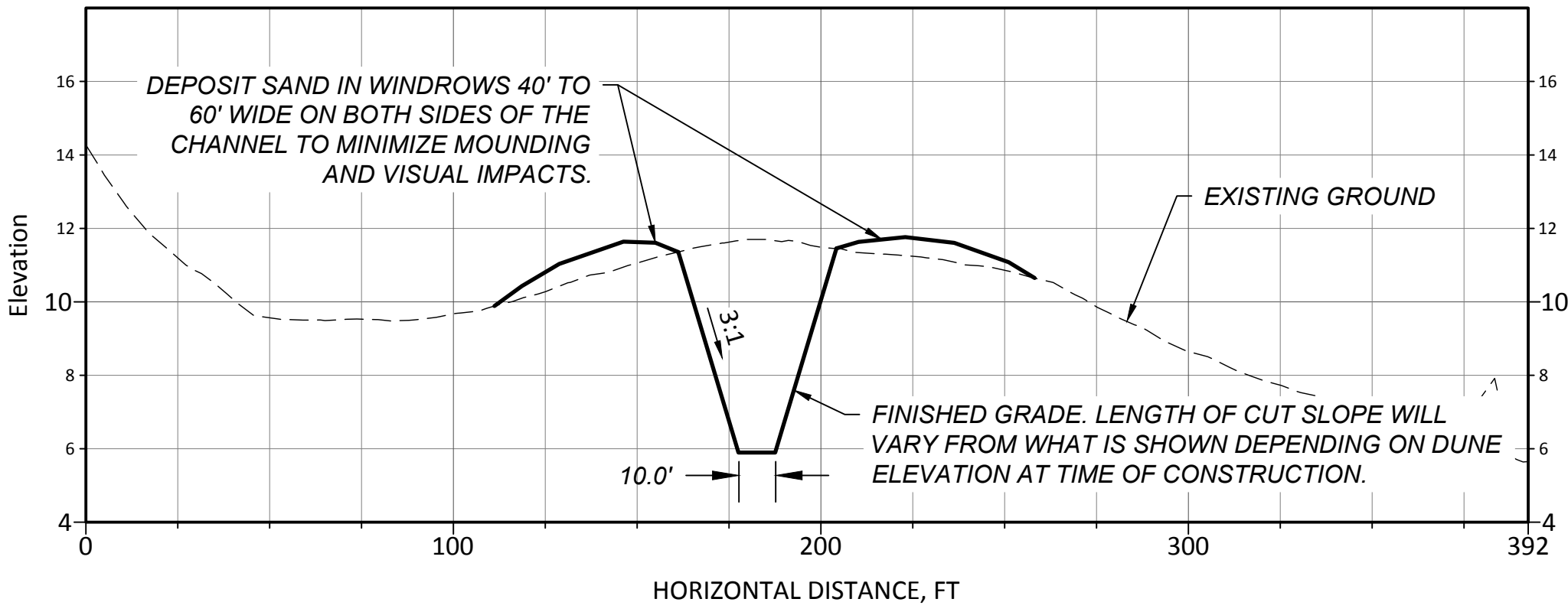




**PESCADERO LAGOON WSE CONTROL PLAN**  
SCALE: 1"=200'



**PESCADERO LAGOON WSE CONTROL PROFILE**  
SCALE: H1"=40'; V1"=4'



**PESCADERO LAGOON WSE CONTROL SECTION**  
SCALE: H1"=40'; V1"=4'

- NOTES:**
1. PROVIDE A LAGOON BREACHING PLAN TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTING LAGOON BREACH.
  2. WATER LEVEL MANAGEMENT ACTIVITIES WILL ONLY BE IMPLEMENTED FOR LAGOON CONDITIONS WITH WATER SURFACE ELEVATIONS ABOVE 6.5 FT.
  3. BEACH CONDITIONS CHANGE REGULARLY. BERM ELEVATIONS MAY VARY FROM WHAT IS SHOWN ON PLANS. FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION.
  4. BREACHING ACTIVITY WILL BE PERFORMED ON AN ADAPTIVE MAINTENANCE BASIS. PERIODIC MAINTENANCE CONSTRUCTION MAY BE NEEDED TO MAINTAIN THE SHAPE OF THE CHANNEL AND LAGOON WATER SURFACE ELEVATIONS BELOW 6.5 FT.
  5. ALL CONSTRUCTION AND BEACH TRAVEL WILL BE PERFORMED IN THE PRESENCE OF BIOLOGICAL MONITORS TO MINIMIZE IMPACTS TO WILDLIFE.
  6. COORDINATE WITH OWNER'S REPRESENTATIVE ON ALIGNMENT OF WATER SURFACE ELEVATION CONTROL CHANNEL PRIOR TO EXCAVATION.



|  |  |  |                         |  |
|--|--|--|-------------------------|--|
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|  | REVIEWED   |  | SD                      |  |
| PREPARED BY:   | APPROVED   |  | CH                      |  |
|  | SAN MATEO RESOURCE CONSERVATION DISTRICT         |  | 80 STONE PINE ROAD #100 |  |
|  | SAN MATEO RESOURCE CONSERVATION DISTRICT         |  | HALF MOON BAY, CA 94019 |  |
|  | CLIENT:  |  | (650) 712-7765          |  |
| PESCADERO BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT   | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | JOB NUMBER              |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | 16-1027-3               |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | DATE                    |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | OCT 2018                |  |
| PESCADERO BUTANO CREEK CHANNEL RECONNECTION AND RESILIENCE PROJECT   | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | SHEET                   |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | C19                     |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  | 19 OF 19                |  |
|  | PESCADERO LAGOON WATER SURFACE ELEVATION CONTROL |  |                         |  |



San Mateo Resource Conservation District  
Vendor Payables

| All Transactions |                  |   |   |                       |       |              |            |            |  |
|------------------|------------------|---|---|-----------------------|-------|--------------|------------|------------|--|
| Payment #        | Num              | Name                                      | Memo  | Terms                 | Aging | Open Balance | Hold       | Pay        |  |
| 1 - 60           |                  |   |   |                       |       |              |            |            |  |
| 1                | Employ Reimb     | Dylan Skybrook                            | Employee Reimbursement SCMSN-MSLS-NAF-BF - MSLS Team                            | On Receipt of Invoice | 1     | 2,206.93     |            | 2,206.93   |  |
| 2                | Empty Reimb      | Dylan Skybrook                            | Employee Reimbursement SCMSN-SPOT-TUT - Spotlight Stewardship 2019 - car rental | On Receipt of Invoice | 1     | 220.82       |            | 220.82     |  |
| 3                | Employ Reimb     | Dylan Skybrook                            | Employee Reimbursement SCMSN-MSLS-NAF-BF, SCMSN-SCMSN-BF, SCMSN-SCMS            | On Receipt of Invoice | 1     | 510.21       |            | 510.21     |  |
| 4                | Employ Reimb     | Dylan Skybrook                            | Employee Reimbursement SCMSN-MSLS-NAF-BF & SCMSN-SCMSN-GEN                      | On Receipt of Invoice | 1     | 52.49        |            | 52.49      |  |
| 5                | April 2019       | Comcast (Phone)                           | April 2019 Phone Bill   | On Receipt of Invoice | 1     | 285.41       |            | 285.41     |  |
| 6                | RCD032019        | Ryan Charland, Paragon Accounting         | Invoice #RCD032019 - March Accounting consultant                                | On Receipt of Invoice | 3     | 2,320.00     |            | 2,320.00   |  |
| 7                | 0511STEb         | Cafe Ella/Ella's at the Airport           | Invoice #0511STEb SCMSN-SPOT-RLF 2018 Spotlight Stewardship                     | On Receipt of Invoice | 6     | 96.45        |            | 96.45      |  |
| 8                | Employ Reimb     | Dylan Skybrook                            | Employee Reimbursement SCMSN-ATLAS-BF, SCMSN-MSLS-NAF & SCMSN-SCMSN-E           | On Receipt of Invoice | 7     | 533.60       |            | 533.60     |  |
| 9                | 3                | Redwood Engineering Construction          | Invoice #3 WQ-DR-R3-DWR Q14 Butano Pond Task 4 - Construction                   | On Receipt of Invoice | 7     | 150,000.00   |            | 150,000.00 |  |
| 10               | Check Request    | California Dept. of Fish and Wildlife     | Check Request HE-ALP-CDFW - 1600 Application Fee                                | On Receipt of Invoice | 8     | 5,313.00     |            | 5,313.00   |  |
|                  | 100              | California State Parks - Santa Cruz Dist. | Invoice #100 HE-BC-STATE Inv 6  | Pending Funding       | 13    | 28,506.05    | 28,506.05  |            |  |
|                  | 217133-0319      | Balance Hydrologics, Inc.                 | Invoice #217133-0319 WQ-DR-WCB Q10- Butano SP Task 2 - Designs                  | Pending Funding       | 14    | 122.50       | 122.50     |            |  |
| 11               | 90716852         | United States Geological Survey           | Invoice #90716852 SG-P-ALL  | Secure Funding        | 14    | 3,600.00     |            | 3,600.00   |  |
| 12               | 90716853         | United States Geological Survey           | Invoice #90716853 WQ-DR-R3-DWR & SG-SG-ALL                                      | Secure Funding        | 14    | 7,825.00     |            | 7,825.00   |  |
|                  | 20190405-RCD_EUC | Conscious Compost                         | Invoice #20190405-RCD_EUC CMA-WR-BSEC-SMC                                       | Pending Funding       | 20    | 200.00       | 200.00     |            |  |
|                  | 20190405-RCD_FS  | Conscious Compost                         | Invoice #20190405-RCD_FS CMA-WR-CFF-SMC   | Pending Funding       | 20    | 350.00       | 350.00     |            |  |
|                  | 1403             | Storesund Consulting                      | Invoice #1403 WQ-DR-WCB Q10 Loma Mar Task 2 - Designs                           | Pending Funding       | 20    | 6,252.00     | 6,252.00   |            |  |
|                  | 16-1027-4-1      | cbec                                      | Invoice #16-1027-4-1 HE-BC-STATE Inv 6  | Pending Funding       | 20    | 5,285.82     | 5,285.82   |            |  |
|                  | 17-019C-01       | Waterways Consulting, Inc.                | Invoice #17-019C-01 HE-MFP-IWRP Inv 1   | Pending Funding       | 21    | 12,347.79    | 12,347.79  |            |  |
|                  | 1411             | Storesund Consulting                      | Invoice #1411 WQ-DR-WCB Q10 Loma Mar Task 2 - Designs                           | Pending Funding       | 22    | 3,012.00     | 3,012.00   |            |  |
|                  | 16-050-T         | Waterways Consulting, Inc.                | Invoice #16-050-T WQ-DR-R3-DWR Inv 14 Butano Farms Task 4 Construction          | Pending Funding       | 22    | 6,040.40     | 6,040.40   |            |  |
|                  | 18-057-5         | Waterways Consulting, Inc.                | Invoice #18-057-5 HE-PCA-IWRP Inv 1   | Pending Funding       | 22    | 3,616.25     | 3,616.25   |            |  |
|                  | 12991            | Waterways Consulting, Inc.                | Invoice #12991 WQ-DR-R3-DWR & WQ-DR-WCB2  | Pending Funding       | 22    | 16,219.74    | 16,219.74  |            |  |
|                  | 3290             | Go Native Nursery, LLC                    | Invoice #3290 HE-JRCI-CT Invoice 6  | Pending Funding       | 23    | 32,965.00    | 32,965.00  |            |  |
|                  | 1914             | Vinnedge Environmental Consulting         | Invoice #1914 ESM-RR-OH2-SMC  | Pending Funding       | 24    | 912.50       | 912.50     |            |  |
|                  | 2029-17          | SRT Consultants                           | Invoice #2029-17 WQ-DR-WCB Q10 Butano SP Task 2 - Designs                       | Pending Funding       | 24    | 8,130.00     | 8,130.00   |            |  |
|                  | 784              | Alnus Ecological                          | Invoice #784 HE-BC-STATE Invoice 6  | Pending Funding       | 25    | 15,023.58    | 15,023.58  |            |  |
|                  | 785              | Alnus Ecological                          | Invoice #785 HE-PI-FF-USFWS - No task   | Pending Funding       | 25    | 1,657.50     | 1,657.50   |            |  |
|                  | 786              | Alnus Ecological                          | Invoice #786 DR-WQ-R3-DWR Inv 14 Blue House, Butano, Memorial Task C Planning   | Pending Funding       | 25    | 300.00       | 300.00     |            |  |
|                  | 787              | Alnus Ecological                          | Invoice #787 DR-WQ-R4-DWR Invoice 11 Moty & Carpy Task C Planning               | Pending Funding       | 25    | 240.00       | 240.00     |            |  |
| 13               | 244689-1981149-4 | Stanford University                       | Invoice #244689-1981149-4 SCMSN-ATLAS-BF Atlas Project                          | Secure Funding        | 25    | 8,948.17     |            | 8,948.17   |  |
| 14               | 9030402          | Soil Control Lab                          | Invoice #9030402 CMA-WR-CTA-SMC   | On Receipt of Invoice | 28    | 135.00       |            | 135.00     |  |
|                  | 18-057-4         | Waterways Consulting, Inc.                | Invoice #18-057-4 HE-PCA-IWRP Invoice 2   | Pending Funding       | 42    | 10,677.85    | 10,677.85  |            |  |
|                  | 15-1013-4-11     | cbec                                      | Invoice #15-1013-4-11 HE-BFF-R-DWR Invoice 14 Task 4 - Post Construction        | Pending Funding       | 49    | 14,131.50    | 14,131.50  |            |  |
|                  | TU-SMCRCD-14     | Trout Unlimited                           | Invoice #TU-SMCRCD-14 WQ-DR-R3-DWR Q14 Marchi/Butano/Blue House Task 3 - Plar   | Pending Funding       | 50    | 8,778.50     | 8,778.50   |            |  |
|                  | 5696             | Power Services, Inc.                      | Invoice #5696 WQ-DR-R3-DWR Q14Theobald Task C - Design                          | Pending Funding       | 52    | 1,400.00     | 1,400.00   |            |  |
|                  | 2029-16          | SRT Consultants                           | Invoice #2029-16 WQ-DR-WCB Q10 Butano SP Task 2 Designs                         | Pending Funding       | 52    | 8,990.00     | 8,990.00   |            |  |
|                  | 774              | Alnus Ecological                          | Invoice #774 HE-GO-SP Invoice 5   | Pending Funding       | 56    | 450.00       | 450.00     |            |  |
| Total 1 - 60     |                  |   |   |                       |       | 367,656.06   | 185,608.98 | 182,047.08 |  |
| 61 - 90          |                  |   |   |                       |       |              |            |            |  |
|                  | 217133-0219      | Balance Hydrologics, Inc.                 | Invoice #217133-0219 WQ-DR-WCB Q10 Butano SP Task 2 - Designs                   | Pending Funding       | 62    | 4,827.50     | 4,827.50   |            |  |
|                  | 16-1027-3-8      | cbec                                      | Invoice #16-1027-3-8 HE-BC-STATE Inv 6  | Pending Funding       | 64    | 16,032.34    | 16,032.34  |            |  |
|                  | 18-057-3         | Waterways Consulting, Inc.                | Invoice #18-057-3 HE-PCA-IWRP Inv 2   | Pending Funding       | 70    | 6,825.51     | 6,825.51   |            |  |
|                  | 15-1013-4-10     | cbec                                      | Invoice #15-1013-4-10 HE-BFF-R-DWR Invoice 14 Task 4 - Construction             | Pending Funding       | 72    | 4,524.25     | 4,524.25   |            |  |

San Mateo Resource Conservation District  
Vendor Payables

| All Transactions |              |                                   |   |                 |       |              |            |            |
|------------------|--------------|-----------------------------------|---|-----------------|-------|--------------|------------|------------|
| Payment #        | Num          | Name                              | Memo  | Terms           | Aging | Open Balance | Hold       | Pay        |
|                  | 2029-15      | SRT Consultants                   | Invoice #2029-15 WQ-DR-WCB Q10 Task 2 Designs                                   | Pending Funding | 81    | 540.00       | 540.00     |            |
|                  | 1910         | Vinnedge Environmental Consulting | Invoice #1910 ESM-RR-OH2-SMC  | Pending Funding | 83    | 420.00       | 420.00     |            |
|                  | 768          | Alnus Ecological                  | Invoice #768 ESM-RR-OH2-SMC   | Pending Funding | 84    | 495.00       | 495.00     |            |
|                  | 773          | Alnus Ecological                  | Invoice #773 HE-GO-SP Invoice 5   | Pending Funding | 84    | 450.00       | 450.00     |            |
|                  | 2621-109     | Stetson Engineers, Inc.           | Invoice #2621-109 WQ-DR-R3-DWR Q13 Repetto Task 3 - Permitting                  | Pending Funding | 85    | 385.00       | 385.00     |            |
|                  | 18-057-2     | Waterways Consulting, Inc.        | Invoice #18-057-2 HE-PCA-IWRP Inv 2   | Pending Funding | 86    | 11,432.94    | 11,432.94  |            |
| Total 61 - 90    |              |                                   |   |                 |       | 45,932.54    | 45,932.54  | 0.00       |
| > 90             |              |                                   |   |                 |       |              |            |            |
|                  | 20181210-2   | Cuesta La Honda Guild             | Invoice #20181210-2 WQ-DR-R3-DWR Q13 Granny Flats Task 4 - Construction         | Pending Funding | 108   | 33,194.52    | 33,194.52  |            |
|                  | 751          | Alnus Ecological                  | Invoice #751 WQ-DR-R3-DWR Q13 Blue House, Butano & Memorial Task 3              | Pending Funding | 125   | 1,425.00     | 1,425.00   |            |
|                  | 5619         | Power Services, Inc.              | Invoice #5619 WQ-DR-R3-DWR Q13 Stafford Task C - Design                         | Pending Funding | 139   | 1,550.00     | 1,550.00   |            |
|                  | 18-057-1     | Waterways Consulting, Inc.        | Invoice #18-057-1 HE-PCA-IWRP Inv 1   | Pending Funding | 139   | 22,402.93    | 22,402.93  |            |
|                  | 3232         | Go Native Nursery, LLC            | Invoice #3232 HE-JRCI-CT Caltrans Invoice 5                                     | Pending Funding | 144   | 7,329.44     | 7,329.44   |            |
|                  | 12982        | Waterways Consulting, Inc.        | Invoice #12982 WQ-DR-R4-DWR Q9 Carpy Ranch Task 4 - Construction                | Pending Funding | 146   | 9,433.85     | 9,433.85   |            |
|                  | 12908        | Waterways Consulting, Inc.        | Invoice #12908 DR-DR-R4-DWR Q9 Carpy Ranch Task 4 - Construction                | Pending Funding | 169   | 4,135.00     | 4,135.00   |            |
|                  | 1378         | Storesund Consulting              | Invoice #1378WQ-DR-R3-DWR Q13 Blue House Farm Task 4 - Construction             | Pending Funding | 176   | 4,892.50     | 4,892.50   |            |
|                  | TU-SMCRCD-13 | Trout Unlimited                   | Invoice #TU-SMCRCD-13 WQ-DR-R3-DWR Q12 Butano/Blue House Task 4 Construction    | Pending Funding | 202   | 4,740.00     | 4,740.00   |            |
|                  | 12881        | Waterways Consulting, Inc.        | Invoice #12881 WQ-DR-R3-DWR Q13 Butano Pond Task 4 Construction                 | Pending Funding | 207   | 14,402.50    | 14,402.50  |            |
|                  | 12876        | Waterways Consulting, Inc.        | Invoice #12876 WQ-DR-R3-DWR Q12 Butano Pond Task 4 - Construction               | Pending Funding | 209   | 8,497.57     | 8,497.57   |            |
|                  | 12877        | Waterways Consulting, Inc.        | Invoice #12877 WQ-DR-R4-DWR Q9 Carpy Pond Task 4 - Consturction                 | Pending Funding | 209   | 15,763.00    | 15,763.00  |            |
|                  | 08302018     | Cuesta La Honda Guild             | Invoice #08302018 WQ-DR-R3-DWR Q12 Ventura & Granny Flats Task 4 - Construction | Pending Funding | 238   | 253,509.68   | 253,509.68 |            |
|                  | TU-SCRCDD-12 | Trout Unlimited                   | Invoice #TU-SCRCDD-12 WQ-DR-R3-DWR Butano/Blue House Inv. 11 Task 3 Planning    | Pending Funding | 289   | 5,510.26     | 5,510.26   |            |
|                  | SMCMTY-18    | Trout Unlimited                   | Invoice #SMCMTY-18 (WQ-DR-R4-DWR) Q7 IRWM Moty Task C Planning/Permits          | Pending Funding | 321   | 7,001.00     | 7,001.00   |            |
| Total > 90       |              |                                   |   |                 |       | 393,787.25   | 393,787.25 | 0.00       |
| TOTAL            |              |                                   |   |                 |       | 807,375.85   | 625,328.77 | 182,047.08 |

San Mateo RCD  
Financial Standing as of 3/31/2019

Balance Sheet:

All cash accounts have been reconciled through the end of March. The receivables for the quarter will continue to grow as the Invoicing period is currently under way.

Deferred revenue is now being appropriately tracked throughout the year. Accounts Payable are very similar to prior year numbers at this point.

Income Statement:

As in the prior quarter end period, the P&L shows that the RCD is currently at a loss. It should be noted to the user of the financials that the variances are due to fixed quarterly invoicing timing. As the month of April continues, Q1 2019 Invoicing will turn the numbers in the positive direction. Compared to prior years, the Contract revenue appears much higher than the previous year. This increase is also mirrored exactly under the Project Implementation. Both are material increases from the prior year and is due to the significant passthrough invoicing and billing many of the projects require. This inflation of Income and Expenses cancel each other out, dollar for dollar, and has no effect on the bottom line.

Audit:

We have turned in most information needed for the Auditor to complete their testing. We expect the onsite visit to be coming soon.

If there are any questions or comments, I can be reached at the following:

650-204-7926

[ryan@paragonaccounting.com](mailto:ryan@paragonaccounting.com)

Ryan Charland

**RESOLUTION 2019-1****APPROVING THE GRANT OF FUNDS FROM THE  
STATE COASTAL CONSERVANCY****FOR PESCADERO MARSH RESTORATION AND RESILIENCY PROJECT**

**Whereas,** the San Mateo Resource Conservation District is a Special District organized under Division 9 of the California Public Resources Code with an original petition granted on July 1, 1939;

**Whereas,** the San Mateo Resource Conservation District is defined in Section 3501 of the Government Code as a public agency;

**Whereas,** the Legislature of the State of California has established the State Coastal Conservancy (“Conservancy”) under Division 21 of the California Public Resources Code, and has authorized the Conservancy to award grants to public agencies and nonprofit organizations to implement the provisions of Division 21; and

**Whereas,** the Conservancy awards grants for projects that it determines are consistent with Division 21 of the Public Resources Code and with the Conservancy’s Strategic Plan and that best achieve the Conservancy’s statutory objectives, in light of limited funding.

**Whereas,** at its December 6, 2018 meeting, the Conservancy adopted a resolution authorizing a grant to Resource Conservation District of San Mateo County (“grantee”) for Pescadero Marsh Restoration and Resiliency (“the project”). The resolution was adopted by the Conservancy pursuant to and is included in the Conservancy December 6, 2018 staff recommendation, a copy of which is on file with the grantee and with the Conservancy.

**Whereas,** the State Coastal Conservancy requires authorization of the Board to certify through a resolution that it approves the award of Conservancy grant funding and authorizes the execution by a representative of the grantee of a grant agreement on terms and conditions required by the Conservancy grant agreement no. 18-094.

**NOW THEREFORE BE IT RESOLVED,** that the San Mateo Resource Conservation District Board of Directors hereby:

1. Approves the award of grant funding from the Conservancy for the project.
2. Acknowledges that it has or will have sufficient funds to complete the project and, if any property is acquired as part of the project to operate and maintain the property, and, if any

facilities are constructed as a part of the project, to operate and maintain the facilities for a reasonable period, not less than the useful life of the facilities.

3. Agrees to be bound by all terms and conditions of the grant agreement and any other agreement or instrument as may be required by the Conservancy and as may be necessary to fulfill the terms of the grant agreement and to complete the project.
4. Authorizes any of the following named officers or employees of the grantee to act as a representative of the grantee, to negotiate and execute on behalf of the grantee all agreements and instruments necessary to complete the project and to comply with the Conservancy's grant requirements, including, without limitation, the grant agreement: Kellyx Nelson and Jim Robins.
5. Agrees that there are no conflicts of interests for members of the Board of Directors or staff in submitting this proposal.

**ADOPTED** at a regular meeting of the Board of Directors of the San Mateo Resource Conservation District on April 18, 2019.

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TJ Glauthier, President

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Date



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## Memorandum

Date: March 21, 2019  
To: Board of Directors  
From: Kellyx Nelson  
Re: Notification of contract amendment with cbec eco-engineering for construction support services for the Butano Creek Channel Reconnection and Resiliency Project

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On August 15, 2017 the Board of Directors approved contracting with cbec eco-engineering for \$120,000 to begin working on time sensitive portions of design and data collection for the for the Butano Creek Channel Reconnection and Resiliency Project. At this meeting staff notified the board that the contract with cbec to complete designs, assist in permitting, develop construction bid specifications, and oversee construction was estimated to range \$250,000 – \$412,000.

On October 26, 2017 the board authorized contracting with cbec for \$307,536 to complete designs, assist in permitting, develop construction bid specifications, and support project management for the project. Since this time the RCD staff have amended the contract to increase the total budget to \$335,544.53 for services as originally outlined to the board.

This memo is to notify the Board of Directors that the RCD has amended the contract to increase the contract amount by \$199,975.17 to a new total of \$535,519.70. This amount is higher than the original estimate due to the project being pushed back a year and increased costs.

The Butano Creek Channel Reconnection and Resiliency Project aims to restore fish passage between Pescadero Marsh and Butano Creek and provide some flooding relief for the community of Pescadero. The RCD has been awarded a NOAA Coastal Resiliency grant in the amount of \$1.4 million, \$4 million from the State of California and \$1 million from the County of San Mateo to dredge an 8,000-foot channel through Pescadero marsh that will remove an anticipated 45,000 cubic yards of sediment and beneficially reuse the dredged material to restore 28 acres of degraded marsh. The project will enhance habitat for multiple state and federally protected species, restore access to 10.1 miles of upstream habitat for steelhead trout and coho salmon, and have socioeconomic benefits to the town of Pescadero by reducing the frequency, duration, and inundation of flooding.

## Memorandum

Date: April 18, 2019  
To: Board of Directors  
From: Kellyx Nelson  
Re: Recommendation to Contract with Waterways Consulting Inc. for Alpine Creek Fish Passage Project

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RCD recommends contracting with Waterways Consulting, Inc. for \$74,180.61 for engineering oversight and support during construction of the Alpine Creek Fish Passage Project. The scope of work includes pre-construction services, engineering oversight during construction, and as-built surveys. This would be a sole source contract.

The Alpine Creek Fish Passage Project will restore a defunct culvert and fish ladder as well as install engineered stream bed material along approximately 300 feet of Alpine Creek to allow access for both adult and juvenile salmonids to 3+ miles of quality spawning and rearing habitat in the San Gregorio Watershed.

The *Public Contract Bidding, Vendor and Professional Consultant Selection, and Purchasing Policy* adopted by this Board of Directors on March 20, 2014 requires solicitation of formal advertised bids for expenditures exceeding \$50,000. The policy allows exceptions to standard purchasing procedures in some circumstances, including when “services are of a unique type, are of a proprietary nature, or are otherwise of such a required and specific design or construction, or are specifically necessary for purposes of maintaining cost effective system consistency, so as to be available from only one source.” Staff believes that the work proposed to be sole sourced to Waterways meets this criterion, as the company:

- designed the project and oversaw hydrologic modeling and geotechnical investigations;
- was identified in the grant application as the engineering firm to oversee construction activities;
- has collected data in the project area as well as in other portions of Alpine Creek and has established relationships with the landowner and upstream neighbors where construction will take place; and
- is able to efficiently conduct engineering oversight of the project as they are uniquely familiar with the designs and project site.