SANTA CLARA VALLEY WATER DISTRICT
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3088
www.valleywater.org
scvwdplanroom@valleywater.org

Santa Clara Valley Water District
Notification of this Addendum is transmitted via PlanetBids Vendor Portal to all current plan holders.
This Addendum is posted on the Valley Water PlanetBids Public Site for Bids Vendor Portal at
https://pbsystem.planetbids.com/portal/48397/portal-home

May 1, 2025

ADDENDUM NO. 1
TO CONTRACT DOCUMENTS FOR THE
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
Project No. 62084001 Contract No. C0708
Invitation No. VW0565

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

PLANETBIDS

Bid Information tab

1. **REPLACE** Online Q&A Due Date with:

   "~~5/26/2025, 12:00 PM~~ **5/27/2025, 2:00 PM**."

Documents tab

2. **REPLACE** Document Item #8, Bid Form 7- Bidder's General Information, with revised **Bid Form No. 7 - Prequalified Bidder's General Information**. See Attachment No. 1 in this Addendum No.1.

GENERAL QUESTIONS AND RESPONSES

QUESTION 1: (Date Received – April 23, 2025)

Is Bid Form 7 - Bidder's General Information still required to be submitted with the bid if we are already prequalified to bid on the project? Information on our company and comparable projects were already submitted with the prequal.

RESPONSE 1:

See Item No. 2 of this Addendum No. 1.

QUESTION 2: (Date Received – April 23, 2025)

The last day for questions is on May 26 which is Memorial Day. With many businesses being closed that day, can we have the Q&A deadline extended?

RESPONSE 2:

See Item No. 1 of this Addendum No. 1.

THIS ADDENDUM NO. 1, WHICH CONTAINS **TWO (2)** PAGES AND **ONE** ATTACHMENT, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:
Bhavani Yerrapotu
468D6D59FDEC458...

Date: 5/1/2025

Bhavani Yerrapotu, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Enclosure:

Attachment No. 1 – Bid Form No. 7 - Prequalified Bidder's General Information.

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

ATTACHMENT NO. 1

BID FORM NO. 7

PREQUALIFIED BIDDER'S GENERAL INFORMATION

Valley Water

PREQUALIFIED BIDDER'S GENERAL INFORMATION

BID FORM NO. 7

Timely submission of this Form is considered **material** by Valley Water.

All Bidders must complete and submit this Bidder's General Information, Bid Form 7. **The Bidder may be considered not responsible based on the information provided on this Form**. Additional sheets may be attached as needed.

1. Names and titles of all officers of Bidder's firm:

   _____

   _____

   _____

   _____

2. Name of person(s) who inspected site of proposed work for your firm:

   Name: _____ Date of Inspection: _____

   _____ _____

3. Name, address, and telephone number of surety company and agent who will provide the required bonds for this Contract:

   _____

   _____

   _____

I STATE UNDER PENALTY OF PERJURY THAT EACH AND ALL OF THE STATEMENTS I HAVE MADE IN RESPONSE TO THE PARAGRAPHS ABOVE ARE TRUE AND CORRECT.

SIGNATURE	
Bidder's Signature:	Date:
Bidder's Name and Title (Print):	

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May 21, 2025

ADDENDUM NO. 2
TO CONTRACT DOCUMENTS FOR THE
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
Project No. 62084001 Contract No. C0708
Invitation No. VW0565

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

PLANETBIDS LINE ITEMS

1. **REPLACE** PlanetBids Section A - Base Bid, Item Code 10 Backing Material quantity with:

   Quantity: ~~**1000**~~ **1400**

2. **REPLACE** PlanetBids Section A - Base Bid, Item Code 11 description and quantity with:

   Item Description: ~~BANKLINE ROCK - 1 TON~~ **Bankline Rock / Structure Rocks Type C**

   Quantity: ~~**5100**~~ **3500**

3. **REPLACE** PlanetBids Section A – Base Bid Item Code 13 Description and Quantity with:

   Item Description: ~~STRUCTURE ROCKS - 2 TON~~ **Structure Rocks Type B**

   Quantity: ~~200~~ 1000

4. **REPLACE** PlanetBids Section A – Base Bid Item Code 14 Description with:

   Item Description: ~~STRUCTURE ROCKS - 3 TON~~ **Structure Rocks Type A**

5. **REPLACE** PlanetBids Item Code 16 Unit of Measurement (UOM) and **ADD** Unit Price with:

   Unit Of Measure: ~~LUMP SUM~~ **Time&Mat'l**

   Unit Price: $50,000

6. **ADD** PlanetBids Item Code 18 with:

   Section A – Base Bid Item Description: Salvaged Creek Bed Material

   Unit Of Measure: Cubic Yard

   Quantity: 320

7. **REPLACE** PlanetBids Section B Supplemental Bid Item Code 1 Additional Backing Material Quantity with:

   Quantity: ~~**100**~~ **140**

8. **REPLACE** PlanetBids Section B Supplemental Bid Item Code 2 Description and Quantity with:

   Item Description: ~~ADDITIONAL BANKLINE ROCK - 1 TON~~ **Additional Bankline Rock / Structure Rocks Type C**

   Quantity: ~~**510**~~ **350**

9. **REPLACE** PlanetBids Section B Supplemental Bid Item Code 4 Description and Quantity with:

   Item Description: ~~ADDITIONAL STRUCTURE ROCKS - 2-TON~~ **Additional Structure Rocks Type B**

   Quantity: ~~**20**~~ **100**

SPECIFICATIONS AND CONTRACT DOCUMENTS

TABLE OF CONTENTS

1. **REPLACE** Article 19.01. title with "Compliance with NPDES General Permit—Bid Item No. 6"

SPECIAL PROVISIONS

Section 12. Work and Contract Times

1. **REPLACE** paragraph A in Article 12.03. Contract Time(s) with:

   "The Contractor will complete all Work required under this Contract before the expiration of Milestone dates indicated under Article 12.03.D. The First Chargeable Day of the Contract will be defined in the Notice to Proceed issued by the District. **The Contractor shall complete all Work required under this Contract before the expiration of 912 calendar days.**"

2. **REPLACE** paragraph C, bullets 1.b and 2.a in Article 12.03. Contract Time(s) with:

   1.b "To **approximately 20 feet upstream of** the Caltrain bridge overpass or control baseline Sta 210+~~30~~ **65.**"

   2.a "From the Caltrain bridge overpass or control baseline Sta 210+~~30~~ **65.**"

3. **ADD** Paragraph H. in Article 12.03 Contract Time(s) with:

   "H. Contractor's attention is directed to Special Provisions Article 18.01 of these Specifications regarding the PRELIMINARY License Agreement with the Peninsula Corridor Joint Powers Board. For scheduling purposes, the Contractor shall assume that the District will obtain the FINAL License Agreement with the Peninsula Corridor Joint Powers Board for work within the Caltrain/VTA right of way and associated bridge underpass by the end of year 2025."

4. **ADD** Paragraph B. in Article 12.07 Changes with:

   "B. Reference is made to Standard Provisions Article 3.07.02 Cost of Extra Work, paragraph G. Contractor's Fee.

      1. All extra work by either Time and Materials or a Lump Sum Change Order, shall be paid at the estimated cost. The markup, provided under bullet No. 3, shall compensate the Contractor for all direct and indirect overhead costs and profit. No separate allowance or itemization shall be allowed for extended overhead or time related overhead; unless, otherwise approved in writing by the District's Deputy Operating Officer."

5. **ADD** Paragraph C. at Article 12.07 Changes with:

   "C. Reference is made to Standard Provisions Article 3.07.03 Time-and-Materials Work.

      1. For any extra work under Time-and-Materials, the Contractor shall develop an estimate of the work. A Not-to-Exceed amount shall be agreed to in writing by the District's Project Manager before any extra shall begin.

2. The Contractor shall submit weekly time and materials reports and track costs on a weekly basis for submittal to the Engineer. The District's inspector will develop their own daily reports to verify the Contractor's time and material reports. Upon review and approval by the District's Project Manager of the Contractor's and District inspector's time and material reports, the approved time and materials will become the basis for payment.

3. The Contractor shall notify the Engineer and the District's Project Manager when the cumulative costs for Time-and-Material work equal 80 percent of the Not-to-Exceed amount. The Contract shall not receive compensation if the required notice is not provided before exceeding 80 percent of the Not-to-Exceed amount."

6. **ADD** Paragraph D. in Article 12.07 Changes with:

"D. Reference is made to Standard Provisions Article 3.07.01 Change in Contract Price(s), General, paragraph C.

1. The COR by the Contractor shall be substantiated within **10** Days after submittal of the written notice with a cost proposal quantifying the costs and schedule impacts associated with the request with supporting data, unless the Engineer allows an additional period of time for the Contractor to ascertain more accurate data in support of the request."

SECTION 13. GENERAL REQUIREMENTS

1. **REPLACE** paragraph D in Article 13.04.05. As-built Documents with:

"Other subsequent, undocumented improvements may also be present and would not be reflected in the as-built or record documents. Contractor's overall understanding to be based on the Drawings and on a reasonable understanding of the facilities from a general field inspection."

SECTION 14. SPECIAL REQUIREMENTS

1. **REPLACE** paragraph A bullet 5 in Article 14.16.04. Required Coverage(s) with:

"Additional ~~required~~ insurance coverage requirements for contractor obtained permits with the County of Santa Clara, the City of Mountain View, and the **Peninsula Corridor Joint Powers Board** (Caltrain) are provided in Appendix E. **The Contractor will be required to submit Certificates of Insurance to the agencies to satisfy the permit conditions.**"

SECTION 16. WORK CONSTRAINTS AND SITE RESTRICTIONS

1. **REPLACE** paragraphs A and E in Article 16.03.02. Caltrain Bridge with:

   "A. Contractor will submit **to the Engineer** a Site Specific Work Plan (SSWP) for review**. Upon a favorable review by the District, the Engineer will submit the SSWP to Caltrain for review and approval.** The SSWP explains the type of work proposed, including the types of tools/equipment and process needed to perform the work. Unique work phases or equipment uses will be submitted in separate SSWPs. ~~SSWPs will be submitted concurrently to the Engineer.~~"

   E. The Contractor will be required to have Railroad Property Liability (RRPL) insurance. Insurance coverage requirements will be determined through the SSWP submittal and review process with the **Peninsula Corridor Joint Powers Board (**Caltrain**).** See ~~Special Provisions Article 14.16.01. Required Coverages and~~ Appendix E. "

2. **REPLACE** text within the table under the "Owner" column in paragraph A and paragraph B of Article 16.06. Access to Properties Owned by Others with:

   "Peninsula Corridor Joint Powers Board (Caltrain) – **see paragraph B below**.

   B. **The** Peninsula Corridor Joint Powers Board **(Caltrain)** ROW **is anticipated to be available by the end of 2025** prior to the commencement of Milestone #2a. **The Contractor's access route to the work area for Milestone #1 shall not pass under the Caltrain railroad bridge unless the Peninsula Corridor Joint Powers Board (Caltrain) ROW has been secured."**

SECTION 18. PERMITS AND REGULATIONS

1. **REPLACE** paragraph A.1 in Article 18.01.01. District-Obtained Permits with:

   "PRELIMINARY Third Party Service Agreement from Caltrain for access and work in the vicinity of and under the Caltrain bridge and the VTA bridge, pending ~~April~~ – **final agreement anticipated by end of** 2025."

2. **REPLACE** paragraph D in Article 18.01.01. District-Obtained Permits with:

   "Copies of the permits are referenced in the Specifications as Appendix ~~F~~ **E**, Permits, and made a part hereto."

3. **REPLACE** Article 18.08.G. Truck Traffic and Hauling with:

   "Contractor will not perform any loading or unloading activities or any other related operations outside the Project limits, or outside the hours of Work as defined in these Specifications."

SECTION 19. ENVIRONMENTAL

1. **REPLACE** the title of Article 19.01 with "Compliance with NPDES General Permit—Bid Item No. 6"

2. **REPLACE** Article 19.12.A. Payment with:

   "Unless noted otherwise, full compensation for Work involved in complying with all requirements under Special Provisions Articles 19.07. District Biologist, 19.08 Migratory Birds, 19.09. Other Fish and Wildlife Species, 19.10. Sensitive Plants and Vegetation, and 19.11. Proper Pruning Techniques for Woody Vegetation Removal shall be considered incidental and included in the Contract Price(s) paid for the various items of Work involved; no additional time or payment shall be allowed."

3. **REPLACE** Article 19.12.B. Payment with:

   "In the event of failure of the Contractor to comply with the requirements of Special Provisions Articles 19.07. District Biologist, 19.08 Migratory Birds, 19.09. Other Fish and Wildlife Species, 19.10. Sensitive Plants and Vegetation, and 19.11. Proper Pruning Techniques for Woody Vegetation Removal, the Contractor will be charged, and the money withheld in accordance with following schedule:

   1. For the first violation $1,000
   2. For the second violation $2,000.
   3. For each additional violation $5,000."

SECTION 21. PAYMENT PROCEDURES

1. **REPLACE** Item Nos. 11, 13, and 14 in Article 21.01.02. paragraph A, Table 21.01.02.A Schedule of Bid Items with:

   "Item No. 11 BID ITEM NO. 11 – BANKLINE ROCK/STRUCTURE ROCKS TYPE C ~~1-TON~~

   Item No. 13 BID ITEM NO. 13 – STRUCTURE ROCKS TYPE B ~~2-TON~~

   Item No. 14 BID ITEM NO. 14 – STRUCTURE ROCKS TYPE A ~~3-TON"~~

2. **ADD** to Article 21.01.02. paragraph A, Table 21.01.02.A Schedule of Bid Items with:

   "Item No. 18 BID ITEM NO. 18– SALVAGED CREEK BED MATERIAL"

SECTION 22. CONTRACT CLOSEOUT

1. **REPLACE** Article 22.01.03.A. Phased Acceptance of Work with:

   "District will accept the work in two separate Stages of Construction, Stage 1 and Stage 2. Stage 1 is the completion of Milestones #1, #2a and #2b. Stage 2 is the completion of Milestone 3. Contractor's attention is directed to Special Provisions Article 12.03."

TECHINCAL PROVISIONS

SECTION 23. PREPARATORY WORK

1. **DELETE** Article 23.01.01.C Scope of Work

SECTION 24. EARTHWORK

1. **REPLACE** Article 24.01.01.B. Scope of Work with:

   "The Contractor will also perform channel excavation for the bank stabilization structure between Sta 210+90 and 211+60. As shown on the Drawings, the Contractor will excavate a keyway at the toe of the creek bank and flatten the slope above the rock slope protection."

2. **ADD** Article 24.05. Salvaged Creek Bed Material – Bid Item No. 18 with Attachment No. 2.

SECTION 27. SPECIAL STRUCTURES

1. **REPLACE** Paragraph A in Article 27.02.01. Scope of Work with:

   "Chute-Pool Channel is a composite section made up of Banking Material, Engineered Streambed Material (ESM), ~~2-Ton~~ **Structure Rocks Type B** and ~~3-Ton~~ **Structure Rocks Type A,** ~~Structure Rocks,~~ and boulders that are placed in an erratic manner (Boulder Erratics). Boulder Erratics are ~~2-Ton~~ Structure Rocks **Type B**. As shown on the Drawings, the Chute-Pool Channel consists of eight chutes and seven pools that will raise the channel as shown on the Drawings."

2. **REPLACE** Article 27.02.02. Sequence of Placement for Engineered Streambed Material (ESM), Structure Rocks (2-Ton and 3-Ton), Backing Material, and Boulder Erratics with Article 27.02.02 in Attachment No. 1.

3. **REPLACE** Article 27.02.03. Placement of Structure Rocks within Existing Concrete and Sacked Concrete with Article 27.02.03 in Attachment No. 1.

4. **REPLACE** Article 27.02.04.03.B. Placement with:

   "B. Backing Material will be installed under Bankline Rock**/Structure Rocks Type C** and Structure Rocks **(Type A and B)** as shown on the Drawings."

5. **DELETE** paragraph A in Article 27.02.04.04. Testing

6. **REPLACE** Article 27.02.05. **Bankline Rock 1-Ton — Bid Item No. 11 and Additional Bankline Rock 1-Ton — Supplemental Bid Item No. 2** with Article 27.02.05 in Attachment No. 1.

7. **REPLACE** Article 27.02.06.03. Placement paragraph B with:

   "A. Place ESM in **2-foot and** ~~1-foot~~ lifts, filling gaps between Structure Rocks. ESM will be compacted by water jetting as shown on the Drawings."

8. **ADD** paragraph E to Article 27.02.06.03. Placement with:

   "E. ESM will be placed by Method B specified in the State Specifications Section 72-2.03B Placement Method B."

9. **REPLACE** Article 27.02.07. **Structure Rocks 2-Ton — Bid Item No. 13 and Additional Structure Rocks 2-Ton —Supplemental Bid Item No. 4** with Article 27.02.07 in Attachment No. 1.

10. **REPLACE** Article 27.02.08. **Structure Rocks 3-Ton — Bid Item No. 14 and Additional Structure Rocks 3-Ton —Supplemental Bid Item No. 4** with Article 27.02.08 in Attachment No. 1.

SECTION 28. CREEK MAINTENANCE

1. **REPLACE** Article 28.01. Description of Work, paragraph B with:

   "A. Work included under this item will include mobilization and demobilization of materials and equipment needed for creek maintenance, control of water, and restoring Structure Rocks, Bankline Rocks**/Structure Rocks Type C** ~~1-Ton~~ to the as-built condition, if necessary and directed by the Engineer."

2. **DELETE** Article 28.02.01.C. Scope of Work

3. **REPLACE** Article 28.02.05. Payment, paragraph A and **ADD** paragraph B with:

   " A. Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work required in paragraph A. Scope of Work for mobilization and demobilization, as shown on the Drawings, as specified in these Specifications, and as directed by the Engineer, will be included in the time and materials cost lump sum price bid for CREEK MAINTENANCE MOBILIZATION AND DEMOBILIZATION--Bid Item No. 16. For bidding, this item has an allowance of $50,000.

   B. Contractor shall develop a Not-to-Exceed (NTE) estimate for the creek maintenance mobilization and demobilization work for authorization by the District. The Contractor's costs shall be estimated and compensated in accordance with Standard Provisions Article 3.07.02. Cost of Extra Work and Article 3.07.03. Time-and-Materials Work. The Contractor shall notify the Engineer when the cumulative costs incurred by the Contractor for time and material work equal 80 percent of the NTE authorized budget.

The Contractor may not be compensated for such Work that exceeds the NTE authorized budget if the Contractor fails to provide the required notice before exceeding the 80 percent of the authorized budget."

4. **REPLACE** Article 28.03.01. Scope of Work, paragraph A with:

"A. Chute-pool channel maintenance will consist of Work necessary to re-establish the as-built Drawings of the Engineered Streambed Material, Structure Rocks – Type B 2-Ton, Structure Rocks – Type A3-Ton, Bankline Rock/Structure Rocks Type C 1-Ton, Boulder Erratics (Structure Rocks Type B), and the Rootwad Habitat Installation, including, but not limited to, work items necessary for the movement of personnel, equipment, material, and incidentals.

5. **ADD** paragraph B to Article 28.03.05 Payment with:

"B. The Contractor's costs shall be estimated and compensated in accordance with Standard Provisions Article 3.07.02. Cost of Extra Work and Article 3.07.03. Time-and-Materials Work. The Contractor shall notify the Engineer when the cumulative costs incurred by the Contractor for time and material work equal 80 percent of the NTE authorized budget. The Contractor may not be compensated for such Work that exceeds the NTE authorized budget if the Contractor fails to provide the required notice before exceeding the 80 percent of the authorized budget."

CONSTRUCTION MAP AND PLAN

1. **REPLACE the following revised plan sheets with ATTACHMENT NO. 3 for Sheets (24 total):**

"Sheets G-01, G-02, G-03, -G-04, G-07, G-08, G-10, G-11, D-01, D-02, D-03, D-04, D-06, C-01, C-02, C-03, C-04, C-05, C-06, C-07, C-08, C-09, C-10, C,11"

THIS ADDENDUM NO. 2, WHICH CONTAINS **NINE (9)** PAGES AND **THREE (3)** ATTACHMENT(S), IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:
Bhavani Yerrapotu
468D6D59FDEC458...

Date: 5/21/2025

Bhavani Yerrapotu, P.E.
Deputy Operating Officer
Watersheds Design and Construction Division

Enclosures:

Attachment 1: Article 27.02.02, Article 27.02.03, Article 27.02.05, Article 27.02.07, Article 27.02.08

Attachment 2: Article 24.05. Salvaged Creek Bed Material

Attachment 3: Revised Plans: Sheets G-01, G-02, G-03, -G-04, G-07, G-08, G-10, G-11, D-01, D-02, D-03, D-04, D-06, C-01, C-02, C-03, C-04, C-05, C-06, C-07, C-08, C-09, C-10, C,11

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

ATTACHMENT NO. 1

ADDENDUM NO. 2

Article 27.02.02, Article 27.02.03, Article 27.02.05, Article 27.02.07, Article 27.02.08

27.02.02. Sequence of Placement for Engineered Streambed Material (ESM), Structure Rocks (Type A and Type B), Backing Material, and Boulder Erratics (Structure Rocks Type B)

A. The following is the sequence of work to place ESM, Structure Rocks (Type A and Type B), Backing Material, and Boulder Erratics (Structure Rocks Type B). Contractor will perform work to achieve rock placement as shown on the Drawings.

B. Excavate the existing creek bed and bank to obtain the necessary subgrade shown on the Drawings.

C. Place Backing Material and Structure Rocks (Type A and Type B) for chute crests first as shown on the Drawings. Structure Rocks will be placed according to the Caltrans Method A placement. Next place Backing Material and the Structure Rocks to form the mid-chute and chute tail crests.

D. If necessary, Structure Rocks can be chiseled or broken no more than 6 inches from the original surface to achieve improved contact between rocks and to minimize voids.

E. The Contractor will select Structure Rocks such that there is close and interlocking contact at the chute crests with a minimum three points of contact when installed.

F. Once Structure Rocks are in place for the chute crest, mid-chute and chute tail, place ESM in 2-foot lifts, filling gaps between Structure Rocks.

G. Place Boulder Erratics (Structure Rocks Type B) at 10 feet on center with Boulder Erratics protruding 1/3 diameter above finished grade, as shown on the Drawings.

H. Water Jetting: For each lift of ESM placed, the material will be water jetted with Backing Material to fill the voids in the ESM as shown on the Drawings. For each two-foot lift:

1. Tamp a 2 to 4 inch inch layer of fine material on surface of two foot thick lift
2. Make a minimum of two passes to water jet Backing Material into subsurface voids in the ESM. Continue until finished grade is achieved as shown on the Drawings.
3. Continue placement of ESM and water jetting until finished grade is achieved as shown on the Drawings.

I. The Structure Rocks will be placed as shown on the Drawings. Structure Rocks will be placed on Backing Material and have voids filled with Backing Material as shown on the Drawings. Install Structure Rocks to finished grade using the tolerances as shown on the Drawing details. Vary the orientation of the Structure Rocks to provide protrusion of larger rocks above finished grade and as shown on the Drawings. Place Structure Rocks with long axis horizontal.

27.02.03. Placement of Structure Rocks within Existing Concrete and Sacked Concrete

A. Remove section of existing concrete and sacked concrete in accordance with Article 23.03 Concrete Removal and Site Demolition and as shown on the Drawings.

B. Place line of Structure Rocks within removed section of concrete and sacked concrete across the channel bed. Place ESM to fill any gaps and voids between the Structure Rocks and existing concrete and sacked concrete wall.

C. If necessary, Structure Rocks may be chiseled or broken to achieve improved contact between rocks and to minimize voids.
D. Place grout to fill void space of ESM and Structure Rocks to a level no higher than the adjacent grade of the existing concrete and sacked concrete.
E. Let grout cure according to manufacturer requirements before adding additional material to meet finished grade as shown on the Drawings.

27.02.05. Bankline Rock/Structure Rocks Type C — Bid Item No. 11 and Additional Bankline Rock /Structure Rocks Type C — Supplemental Bid Item No. 2

27.02.05.01. Scope of Work

A. Bankline Rock/Structure Rocks Type C will be placed along the channel margins and slope protection along the creek bank as shown on the Drawings.
B. As shown on the Drawings, the Contractor will place Bankline Rock/Structure Rocks Type C along the bank stabilization structure between Sta 211+05 and 211+60 and backfill for the toe keyway. The Contractor's attention is directed to Article 27.03. Bank Stabilization Structure.
C. 27.02.05.02. Materials
D. Bankline Rock/Structure Rocks Type C will consist of clean, hard, and crushed durable gravel or rock from a quarry.
E. Rock will be Class VIII, 30 inches nominal median particle diameter (D_{50}), 1-ton nominal median particle weight (W_{50}) and must comply with the requirements in Section 72-2.02B of the State Specifications and meet the following gradation limits:
F. Rock used for Bankline Rock/Structure Rocks Type C will consist of angular in shape, tabular, cuboidal or rectangular rock with a minimum of two parallel sides and blocky.
G. Rock will be a natural color e.g., green, gray, brown/gray, dark gray, and/or dark brown in color. No white rock will be allowed.
H. Rock types native to the Santa Clara County area are acceptable.
I. All rock will be free from laminations and weak cleavages. The rock will not disintegrate significantly from the action of air, water, or in handling and placing. Rocks with tool marks, drill holes, and other blasting evidence will not be utilized in exposed locations.
J. 27.02.05.03. Placement
K. Before any materials are delivered the Project site, all test results will be reviewed and approved by the Engineer.
L. The Contractor will coordinate chute-pool channel construction with the Engineer in order to agree on rock placement, grading conforms, and tolerances.
M. Bankline rock will be placed by Method A specified in Section 72 2.03B Placement Method A, of the State Specifications.
N. Bankline rock will be placed to lines and grades as shown on the Drawings.
O. Excavation and backfill to install the Bankline Rock will conform to the requirements specified in Articles 24.01. Channel Excavation, and 24.02. General Fill, of these Specifications.

27.02.05.04. Testing

A. Rock used for Bankline/Structure Rocks Type C will be tested for Apparent Specific Gravity and Absorption (California Test 206), and Durability Index (California Test 229).

27.02.05.05. Submittals

A. Contractor will submit test results of Bankline Rock gradation testing, Apparent Specific Gravity (California Test 206), Absorption (California Test 206), and Durability Index (California Test 229).

B. Contractor will submit source of material in accordance with Article 9.12.01. Source of Materials and Equipment of the Standard Specifications.

27.02.05.06. Measurement

A. The quantities of Bankline Rock/Structure Rocks Type C will be measured by the TON delivered to the Project site and to the nearest 0.1 ton (200 lbs). Weights will be obtained on a scale certified by the State of California. All loads will be accompanied with a serialized weight ticket witnessed at the time of weighing by a Contractor-furnished weighman. The Engineer may at any time verify load weights and the weighing process.

27.02.05.07. Payment

A. Full compensation for furnishing all labor, materials, equipment, testing and incidentals, and for doing all Work required for Bankline/Structure Rocks Type C as shown on the Drawings and as specified in these Specifications will be included in the unit price bid per TON for BANKLINE ROCK/STRUCTURE ROCKS TYPE C --Bid Item No. 11.

B. Full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all Work will be included in the unit price bid per TON for ADDITIONAL BANKLINE ROCK/STRUCTURE ROCKS TYPE C – Supplemental Bid Item No. 2, if authorized by the District.

27.02.07. Structure Rocks Type B — Bid Item No. 13 and Additional Structure Rocks Type B —Supplemental Bid Item No. 4

27.02.07.01. Scope of Work

A. Structure Rocks Type B will be placed along the creek bed to construct the chutes and pools as shown on the Drawings.

27.02.07.02. Materials

A. Structure Rocks Type B will consist of clean, hard, and crushed durable rock from a quarry.

B. Rock for Structure Rocks Type B will be select rocks from Class IX of the State Specifications Section 72-2.02B, 36 inches nominal median particle diameter, 2-ton nominal median particle weight (W50), with sizes limited to the following range:

C. Minimum diameter: 32 inches Maximum Diameter: 52 inches

D. Rock used for Structure Rocks Type B will consist of angular in shape, tabular, cuboidal or rectangular rock with a minimum of two parallel sides and blocky.

E. Rock will be a natural color e.g., green, gray, brown/gray, dark gray, and/or dark brown in color. No white rock will be allowed.

F. Rock types native to the Santa Clara County area are acceptable.
G. All rock will be free from laminations and weak cleavages. The rock will not disintegrate significantly from the action of air, water, or in handling and placing. Rocks with tool marks, drill holes, and other blasting evidence will not be utilized in exposed locations.
H. Where Structure Rocks Type B are placed within existing concrete or sacked concrete, grout will be placed as shown on the Drawings. Grout will consist of Portland cement or Portland limestone cement and water, with a maximum water to cement ratio of 4 gallons water per 94 pounds of cement.

27.02.07.03. Placement

A. Before any materials are delivered the Project site, all test results will be reviewed and approved by the Engineer.
B. Structure Rocks Type B will be placed by Method A specified in State Specifications Section 72 2.03B Placement Method A.
C. Structure Rocks Type B will be placed to lines and grades as shown on the Drawings.
D. Excavation and backfill to install the Structure Rocks Type B will conform to the requirements specified in Technical Specifications Articles 24.01. Channel Excavation, and 24.02. General Fill, of these Specifications.
E. Where Structure Rocks are placed within existing concrete or sacked concrete as shown on the Drawings. Grout placement be as specified in Section 49-3.02B of the State Specifications.

27.02.07.04. Testing

A. Rock used for Structure Rocks Type B will be tested for Apparent Specific Gravity and Absorption (California Test 206), and Durability Index (California Test 229).

27.02.07.05. Submittals

A. Contractor will submit test results of Structure Rocks Type B gradation testing, Apparent Specific Gravity and Absorption (California Test 206), and Durability Index (California Test 229).
B. Contractor will submit source of material in accordance with Article 9.12.01. Source of Materials and Equipment of the Standard Specifications.

27.02.07.06. Measurement

A. The quantities of Structure Rocks Type B will be measured by the TON delivered to the Project site and to the nearest 0.1 ton (200 lbs). Weights will be obtained on a scale certified by the State of California. All loads will be accompanied with a serialized weight ticket witnessed at the time of weighing by a Contractor-furnished weighman. The Engineer may at any time verify load weights and the weighing process.

27.02.07.07. Payment

A. Full compensation for furnishing all labor, materials, equipment, testing and incidentals, and for doing all Work required for Structure Rocks Type B as shown on the Drawings and as specified in these Specifications will be included in the unit price bid per TON for STRUCTURE ROCKS TYPE B —Bid Item No. 13.

B. Full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all Work will be included in the unit price bid per TON for ADDITIONAL STRUCTURE ROCKS TYPE B – Supplemental Bid Item No. 4, if authorized by the District.

27.02.08. Structure Rocks Type A — Bid Item No. 14 and Additional Structure Rocks Type A — Supplemental Bid Item No. 5

27.02.08.01. Scope of Work

A. Structure Rocks Type A will be placed along the creek bed to construct the chutes and pools as shown on the Drawings.

27.02.08.02. Materials

A. Structure Rocks Type A will consist of clean, hard, and crushed durable gravel or rock from a quarry.
B. Rock for Structure Rocks Type A will be select rocks from Class X rocks per the State Specifications Section 72-2.02B, 42 inches nominal median particle diameter, 3-ton nominal median particle weight (W50), with sizes limited to the following range:
C. Minimum diameter: 40 inches Maximum Diameter: 60 inches
D. Rock used for Structure Rocks Type A will consist of angular in shape, tabular, cuboidal or rectangular rock with a minimum of two parallel sides and blocky.
E. Rock will be a natural color e.g., green, gray, brown/gray, dark gray, and/or dark brown in color. No white rock will be allowed.
F. Rock types native to the Santa Clara County area are acceptable.
G. All rock will be free from laminations and weak cleavages. The rock will not disintegrate significantly from the action of air, water, or in handling and placing. Rocks with tool marks, drill holes, and other blasting evidence will not be utilized in exposed locations.
H. Where Structure Rocks Type A are placed within existing concrete or sacked concrete, grout will be placed as shown on the Drawings. Grout will consist of Portland cement or Portland limestone cement and water, with a maximum water to cement ratio of 4 gallons water per 94 pounds of cement.

27.02.08.03. Placement

A. Before any materials are delivered the Project site, all test results will be reviewed and approved by the Engineer.
B. Structure Rocks Type A will be placed by Method A specified in Section 72 2.03B Placement Method A, of the State Specifications.
C. As shown on the Drawings where existing concrete or sacked concrete is removed, the voids within Structure Rocks will be grouted in place.
D. Structure Rocks Type A will be placed to lines and grades as shown on the Drawings.
E. Excavation and backfill to install the Structure Rocks Type A will conform to the requirements specified in Articles 24.01. Channel Excavation, and 24.02. General Fill, of these Specifications.

27.02.08.04. Testing

A. Rock used for Structure Rocks Type A will be tested for Apparent Specific Gravity and Absorption (California Test 206), and Durability Index (California Test 229).

27.02.08.05. Submittals

A. Contractor will submit test results of gradation testing for Structure Rocks Type A, Apparent Specific Gravity and Absorption (California Test 206), and Durability Index (California Test 229).

B. Contractor will submit source of material in accordance with Standard Provisions Article 9.12.01. Source of Materials and Equipment.

27.02.08.06. Measurement

A. The quantities of Structure Rocks Type A will be measured by the TON delivered to the Project site and to the nearest 0.1 ton (200 lbs). Weights will be obtained on a scale certified by the State of California. All loads will be accompanied with a serialized weight ticket witnessed at the time of weighing by a Contractor-furnished weighman. The Engineer may at any time verify load weights and the weighing process.

27.02.08.07. Payment

A. Full compensation for furnishing all labor, materials, equipment, testing and incidentals, and for doing all Work required for Structure Rocks 2-Ton as shown on the Drawings and as specified in these Specifications will be included in the unit price bid per TON for STRUCTURE ROCK TYPE A —Bid Item No. 14.

B. Full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all Work will be included in the unit price bid per TON for ADDITIONAL STRUCTURE ROCK TYPE A – Supplemental Bid Item No. 5, if authorized by the District.

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

ATTACHMENT NO. 2

ADDENDUM NO. 2

Article 24.05. Salvaged Creek Bed Material

24.05. Salvaged Creek Bed Material—Bid Item No. 18

24.05.01. Scope of Work

A. Salvaged creek bed material will consist of excavating the existing creek bed material, transporting, stockpiling the material for inspection and approval by the Engineer, and disposing of man-made, organic or deleterious material, in order to be reused to fill voids in Engineered Streambed Material as specified in Technical Provisions Article 27.02.06. Engineered Streambed Material (ESM) as shown on the Drawings within the stations provided, as specified in these Specifications, and as directed by the Engineer.

B. The upper six (6) inches of creek bed material will be excavated and disposed of to allow removal of man-made, organic or deleterious material found at the surface of the creek. Work to clear the upper six (6) inches of creed bed material shall be included as work and payment under Article 24.01. Channel Excavation.

C. Salvaged Creek Bed Material will be separated and stockpiled for each Milestone (Milestone #1 and #2a) of work in accordance with Article 12.03. Contract Time(s) paragraph C in consideration of work upstream and downstream of the Caltrain railroad bridge.

D. Salvaged creek bed material will be placed in the void space after placement of each lift of ESM and then compacted by water jetting.

E. Salvaged creek bed material shall not include material excavated on the creek banks where it slopes upward from the creek bed.

24.05.02. Materials

A. Salvaged Creek Bed Material will be free from concrete rubble, debris, trash, organic material, or other deleterious material. Prior to placement, the stockpile shall be inspected by the Engineer to ensure removal of any deleterious materials.

24.05.03. Placement

A. Excavate, transport, and dispose of the upper six (6) inches of creek bed material that has oversized rocks, organic material, and deleterious material in accordance with Article 24.01. Channel Excavation.

B. Following removal of the upper six (6) inches of creed bed material, excavate the creek bed material to the design subgrade elevation shown in the Drawings.

Then transport and stockpile the volume of Salvaged Creek Bed Material necessary to place over the ESM.

C. Following placement of a two (2) foot lift of ESM, fill voids at the surface of the ESM with Salvaged Creek Bed Material.

D. After filling the void space, place an additional 2 inches to 4 inches of Salvaged Creek Bed Material on top of the ESM layer and compact the Salvaged Creek Bed Material and ESM by the water jet method. Two (2) passes of water jetting shall be completed to compact the 2-to-4-inch layer of Salvaged Creek Bed Material and ESM.

E. For second placement of two (2) foot lift of ESM, repeat paragraphs B, C and D above for placement of Salvaged Creek Bed Material.

F. The Contractor's attention is directed to Article 27.02.06. Engineered Streambed Material (ESM) for placement of ESM.

24.05.04. Testing and Submittals

A. No testing or submittals are required for Salvaged Creek Bed Material.

24.05.05. Measurement

A. The quantities of Salvaged Creek Bed Material will be measured per cubic yard.

24.05.06. Payment

A. Full compensation for furnishing all labor, materials, equipment, and incidentals, and for doing all Work required to excavate, transport, stockpile, place, and water jet Salvaged Creek Bed Material as specified in these Specifications, will be included in the cubic yard price bid for **SALVAGED CREEK BED MATERIAL—Bid Item No. 18**.

B. Full compensation for furnishing all labor, materials, equipment, and incidentals, and for doing all Work required to excavate, transport, stockpile and dispose of the upper six (6) inches of creek bed material as specified in Article 24.01. Channel Excavation, will be included in the cubic yard price bid for CHANNEL EXCAVATION – Bid Item No. 8.

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

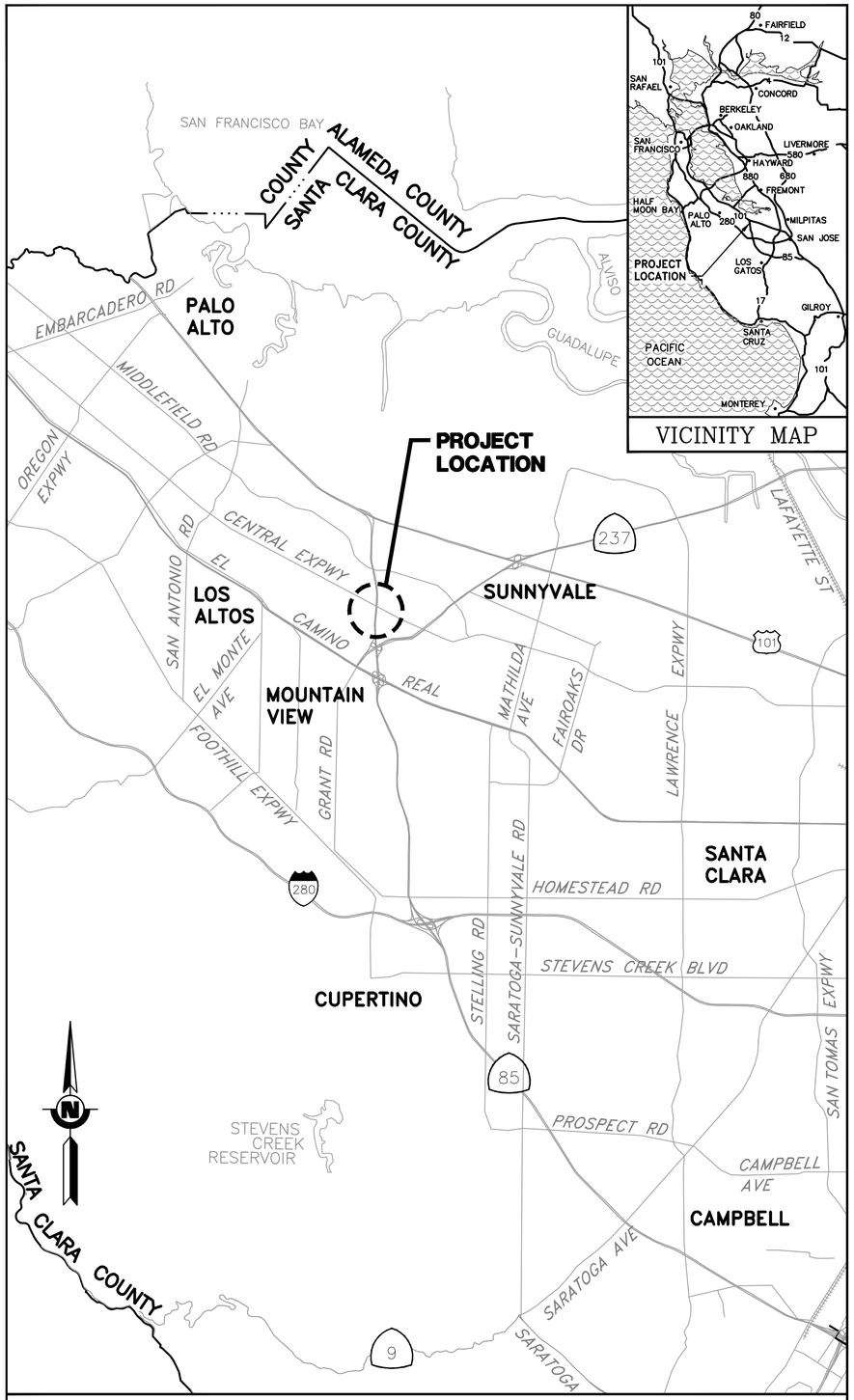
ATTACHMENT NO. 3

ADDENDUM NO. 2

Revised Plans: Sheets G-01, G-02, G-03, -G-04, G-07,

G-08, G-10, G-11, D-01, D-02, D-03, D-04, D-06, C-01,

C-02, C-03, C-04, C-05, C-06, C-07, C-08, C-09, C-10, C,11



LOCATION MAP
SCALE: 1" = 5,000'

MAP AND CONSTRUCTION PLAN

FOR

STEVENS CREEK EVELYN AVENUE

FISH PASSAGE PROJECT

MOUNTAIN VIEW, CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

REGISTERED PROFESSIONAL ENGINEER
DENIS M RUTTENBERG
No. 54561
CIVIL
STATE OF CALIFORNIA

PREPARED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

DENIS RUTTENBERG, P.E. — DATE
ASSOCIATE ENGINEER – CIVIL
DESIGN AND CONSTRUCTION UNIT 2
WATERSHED DESIGN AND CONSTRUCTION

APPROVED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

KARL NEUMAN, P.E. — DATE
CAPITAL ENGINEERING MANAGER
DESIGN AND CONSTRUCTION UNIT 2
WATERSHED DESIGN AND CONSTRUCTION

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

BHAVANI YERRAPOTU, P.E. — DATE
DEPUTY OPERATING OFFICER–CIVIL
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

ACCEPTED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

JENNIFER CODIANNE — DATE
DEPUTY OPERATING OFFICER
WATERSHEDS OPERATION AND MAINTENANCE DIVISION

ADDENDA DRAWING SET
05-15-25

CONTRACT NUMBER	C-0708
PROJECT NUMBER	62084001
SHEET CODE:	1
	G-01
SHEET NUMBER:	01
TOTAL SHEETS:	35

USERNAME: TungTran 5/19/2025 10:39 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-01_A2.dwg

DOCUMENT NUMBER: STV_LP-G-1029-84696

GENERAL NOTES

1. EXISTING UTILITIES FROM AS-BUILT DRAWINGS SHOWING APPROXIMATE LOCATIONS ARE TO BE VERIFIED BY CONTRACTOR.
2. ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN EXISTING (DASHED OR SCREENED LINES) ARE TO REMAIN. EXISTING UTILITIES SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
3. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON INFORMATION FROM THE UTILITY AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY.
4. PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND DEPTHS AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL UNDERGROUND SERVICE ALERT AT (800) 642-2444 FOR LOCATION.
5. THE CONTRACTOR SHALL COMPLY WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6. ALL REFERENCES MADE TO RIGHT OR LEFT, AND ALL CROSS SECTIONS SHOWN ON PLAN ARE VIEWED LOOKING UPSTREAM.
7. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCES AND OTHER WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS.
8. ALL INCIDENT SOILS REMOVED FROM THE PROJECT SITE ARE TO BE PROPERLY TESTED PRIOR TO DISPOSAL (SEE SPECIFICATIONS). LIMITED TO SAN FRANCISCO BAY WATERSHED. REMOVAL OF SOILS TO BE IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS.
9. THE WORK INCLUDES CONSTRUCTING A ROUGHENED CHANNEL CONSISTING OF CHUTES, POOLS, STRUCTURAL ROCKS, AND BOULDER ERRATICS; CONSTRUCTING SLOPE PROTECTION; INSTALLING A ROOTWAD HABITAT STRUCTURE; RECONFIGURING A BOULDER FLOOD BYPASS WEIR; EROSION CONTROL; AND PLANTING MITIGATION TREES, AS DESCRIBED IN THESE DRAWINGS AND IN THE PROJECT SPECIFICATIONS AND AS NEEDED TO COMPLETE CONSTRUCTION.
10. THE WORK SHALL COMPLY WITH ALL PERMIT REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, DEWATERING OF THE WORK AREA, AVOIDANCE OF SENSITIVE HABITAT AREAS, BIOLOGICAL EXCLUSION FENCING AND COORDINATION WITH BIOLOGICAL MONITORING CONSULTANTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES. SPECIAL SAFETY PRECAUTIONS TO BE TAKEN WHEN WORKING IN THE VICINITY OF GAS, OIL AND ELECTRICAL LINES.
12. TREES AND BRUSH NOT SHOWN ON THESE PLANS WILL BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR'S ARBORIST SHALL IDENTIFY AND FLAG ALL TREES TO BE PROTECTED FROM DAMAGE PRIOR TO CONSTRUCTION.
13. ALTERATION OR DISTURBANCE OF MATURE TREES SHALL BE MINIMIZED TO THAT NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL KEEP DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHOWN IN THESE DRAWINGS UNLESS APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE ENGINEER PRIOR TO ANY REQUIRED INSPECTION.
15. CONSTRUCTION MATERIAL AND EQUIPMENT STAGING AREAS SHALL BE LOCATED AS SHOWN IN THESE DRAWINGS. CONSTRUCTION EQUIPMENT SHALL NOT BE STORED OUTSIDE OF IDENTIFIED STORAGE AREAS, UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT ALL CONSTRUCTION MATERIALS FROM DAMAGE AT ALL TIMES.
16. TO PREVENT THE INTRODUCTION OF PLANT PATHOGENS, PRIOR TO MOBILIZATION ON-SITE INCLUDING STAGING AREAS, CONTRACTOR SHALL DECONTAMINATE THEIR EQUIPMENT:
    A. VEHICLES, HEAVY MACHINERY, AND LARGE TOOLS (SUCH AS EXCAVATORS, TRENCHERS, GRADERS, INCLUDING TIRES, TRACKS, UNDERCARRIAGE OF ON-SITE VEHICLES, AND THEIR TOOLS AND IMPLEMENTS) SHALL BE CLEANED FREE OF DEBRIS AND SOIL WITH HIGH PRESSURE WASHER AND/OR COMPRESSED AIR FROM ANY PRIOR WORK SITE PRIOR TO ARRIVING AT THE PROJECT SITE.
    B. FOOTWEAR AND SMALL TOOLS (SUCH AS HAND TOOLS, SHOVELS, TROWELS, HOES, AND PERSONNEL BOOTS) SHALL BE THOROUGHLY CLEANED OF DEBRIS AND SOIL PRIOR TO USE WITHIN THE PROJECT SITE.
    C. EQUIPMENT AND TOOLS MOVED OFF-SITE AND RETURNED FOR LATER USE WILL AGAIN REQUIRE DECONTAMINATION BY THE CONTRACTOR.
18. EQUIPMENT SHALL BE CHECKED AT THE BEGINNING AND END OF EACH WORK DAY FOR LEAKS.
19. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, CHEMICALS OR ANY OTHER TOXIC MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO THE CREEK.
20. IF AT ANY TIME DURING CONSTRUCTION, FISH ARE OBSERVED IN DISTRESS, A FISH KILL IS OBSERVED OR WATER QUALITY PROBLEMS DEVELOP, OPERATIONS SHALL CEASE AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT RESUME UNTIL FURTHER APPROVAL BY THE ENGINEER.

DESIGN NOTES

HORIZONTAL DATUM : CALIFORNIA COORDINATE SYSTEM 83 ZONE III

VERTICAL DATUM : NORTH AMERICAN VERTICAL DATUM 88 (NAVD88).

UNITS OF MEASURE : U.S. SURVEY FEET.

BASIS OF BEARING: THAT LINE BETWEEN SURVEY CONTROL POINTS #11 & #17, TAKEN TO BEAR: SOUTH 16°40'28" EAST.

BASIS OF ELEVATION: SURVEY CONTROL POINT #17, BEING A CUT X ON THE TOP OF THE CURB OF EVELYN AVENUE, TAKEN AS 88.05 FEET.

ALL DISTANCES ARE IN FEET AND DECIMALS, THEREOF

1. SEE SHEET G-05 FOR SURVEY CONTROL UNIT.
2. DESIGN DISCHARGE:
   Q100 = 7,000 CFS
   Q10 = 5,100 CFS
   Q2.33 = 900 CFS
   Q1.5 = 300 CFS
   FLOW RATES BASED ON SCVWD HYDROLOGY (UNOFFICIAL).
3. MANNING'S ROUGHNESS COEFFICIENT N AS FOLLOWS WERE APPLICABLE:
   A. EXISTING NATURAL VEGETATION = 0.06
   B. CONCRETE CHANNEL = 0.015
   C. COMPOSITE NATURAL CHANNEL = 0.035
   D. ROUGHENED CHANNEL = VARIES VERTICALLY WITH DEPTH.

DRAWING INDEX

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING
05-15-25

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
GENERAL NOTES AND DRAWING INDEX

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: G-02
SHEET NUMBER: 2

DOCUMENT NUMBER: STV_LP-G-1029-84697
USERNAME: TungTran 5/19/2025 10:40 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-02_A2.dwg

ABBREVIATIONS

ABM	AIR BLOWN MORTAR
ABT	ABUTMENT
ABS	ACRYLONITRILE–BUTADIENCE–STYRENE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AISI	AMERICAN IRON & STEEL INSTITUTE
ALIGN	ALIGNMENT
AMP	AMPERES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
ASA	AMERICAN STANDARD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWG	AMERICAN WIRE GAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BEGIN CURVE
BM	BENCH MARK
BP	BEGIN POINT
BT	BACKHOE TRENCH
BW	BOTH WAYS
CARV	COMBINATION AIR RELEASE VALVE
℄	CENTERLINE
CB	CATCH BASIN (INLET)
CCCL	CEMENT MORTAR COATED & LINED STEEL PIPE
CCEM	CEMENT CONDUIT
CCTL	CORROSION CONTROL TEST LEADS
CCP	CONCRETE CYLINDER PIPE
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CLEARANCE
CLR	CLEAR
CMC	CEMENT MORTAR COAT
CML	CEMENT MORTAR LINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CONT	CONTINUOUS
CP	CEMENT PIPE
CPC	PLASTIC CONDUIT
CSP	CORRUGATED STEEL PIPE
CTP	CABLE TELEVISION POLE
CTV	CABLE TV
CUFT	CUBIC FEET
CYL	CYLINDER
CIPP	CAST–IN–PLACE PIPE
DET	DETAIL
DH	DRILL HOLES
DIA	DIAMETER
DICL	DUCTILE IRON CEMENT LINED
DIP	DUCTILE IRON PIPE
DPDT	DOUBLE POLE DOUBLE THROW
D/S	DOWNSTREAM
DWR	DEPARTMENT OF WATER RESOURCES
EC	END CURVE
ELEC	ELECTRICAL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EP	END POINT (ALIGNMENT)
ESM	ENGINEERED STREAMBED MATERIAL
EXIST	EXISTING
FF	FULL FORCE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FKCL	FIBERGLASS–KRAFT WRAP CEMENT LINED
FLG	FLANGE
FP	FEEDER PRESSURE
FT	FEET
G/GS	GROUND SPOT
GA	GAGE
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
HC	HOUSE CONNECTION (SANITARY)
HMW/PE	HIGH MOLECULAR WEIGHT POLYETHYLENE
HOR	HORIZONTAL
HP	HORSEPOWER
ID	INSIDE DIAMETER
IF	INSIDE FACE
IL	INDUCTIVE LOOP
IN	INCH
INSUL	INSULATION
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
JT	JOINT TRENCH
KV	KILO VOLT
LB	CONDUIT FITTING ELBOW
LG	LONG
LLV	LONG LEG VERTICAL
LT	LEFT
MAINT	MAINTENANCE
MAX	MAXIMUM
MCD	MULTIPLE CONDUITS
MCI	MCI TELECOMMUNICATION CORP.
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
MW	MONITORING WELL
N	NITROGEN
N/A	NOT APPLICABLE
NE	NORTHEAST
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
NZ	NOZZLE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHEAD
OW	OBSERVATION WELL
ℙ	PROPERTY LINE
PCC	PORTLAND CEMENT CONCRETE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END
PG&E	PACIFIC GAS AND ELECTRIC
PI	POINT OF INTERSECTION
PK	PARKER–KALON SURVEY NAIL
PL	PLASTIC LINE
POT	POINT ON TANGENT
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PSI	POUND PER SQUARE INCH
PT&T	PACIFIC TELEPHONE AND TELEGRAPH
PUE	PUBLIC UTILITY EASEMENT
PV	PRECAST VAULT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	PUMPING WELL
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RE	REFERENCE ELECTRODE
REBAR	REINFORCING BAR
REINF	REINFORCED
REQ'D	REQUIRED
RP	RADIUS POINT
RR	RAILROAD
RT	RIGHT
RTU	REMOTE TERMINAL UNIT
R/W	RIGHT OF WAY
S	SLOPE
SCHED	SCHEDULE
SCVWD	SANTA CLARA VALLEY WATER DISTRICT
SD	STORM DRAIN
SE	SOUTHEAST
SHT	SHEET
SJMW	SAN JOSE MUNICIPAL WATER
SJWC	SAN JOSE WATER COMPANY
SOMCL	STANDARD OIL MASTIC CEMENT LINED
SPECS	SPECIFICATIONS
SPRR	SOUTHERN PACIFIC RAILROAD
SQ	SQUARE
SS	SANITARY SEWER
SSTL	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STRD	STRANDED
SW	SOUTHWEST
SYM	SYMMETRICAL
T	TELEPHONE
T	THICKNESS OF PLATE OR DIMENSION OF WELD
TAN	TANGENT
TBM	TEMPORARY BENCH MARK
TC	TELEMETRY CABLE
TCA	TEMPORARY CONSTRUCTION AREA
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCS	TELEMETRY CABLE SPLICE
TEL	TELEPHONE
TEMP	TEMPORARY
THW	THERMAL PLASTIC MOISTURE AND HEAT RESISTANT
THWN	THERMAL PLASTIC WITH NYLON COATING MOISTURE AND HEAT RESISTANT
TOB	TOP OF BANK
TP	TEST PIT LOCATION
TR	TAPE WRAPPED
TS	TRAFFIC SIGNAL
TYP	TYPICAL
UG	UNDERGROUND
UGLN	UNDERGROUND LINE
UPRR	UNION PACIFIC RAILROAD
U/S	UPSTREAM
USGS	UNITED STATES GEOLOGICAL SURVEY
V	VOLTAGE
VAC	VOLTAGE ALTERNATING CURRENT
VCD	VACANT CONDUIT
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER
WP	WORK POINT
WSP	WELDED STEEL PIPE
WSCL	WRAPPED STEEL CEMENT LINED
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
W/	WITH
&	AND
@	AT
℄	CENTERLINE
ø	DIAMETER
ℙ	PROPERTY LINE

LINE TYPE LEGEND

EXISTING		PROPOSED
CTV	℄ CABLE TELEVISION	CTV
E	℄ ELECTRICAL LINE	E
E(OH)	℄ ELECTRICAL LINE – OVERHEAD	E(OH)
G	℄ GAS LINE	G
IR	℄ IRRIGATION LINE	IR
SD	℄ STORM DRAIN LINE	SD
SS	℄ SANITARY SEWER LINE	SS
T	℄ TELEPHONE LINE	T
T(OH)	℄ TELEPHONE LINE – OVERHEAD	T(OH)
TC	℄ TELEMETRY LINE	TC
FO	℄ FIBER OPTIC	FO
W	℄ WATER LINE	W
	℄ WATER LINE (PROFILE VIEW)	
RCW	℄ RECYCLED WATER LINE	RCW
X	1 ℄ FENCE LINE	X
	℄ CHAIN LINK FENCE LINE	
	℄ WOODEN FENCE LINE	
	℄ RETAINING WALL	
	CONCRETE WALL EDGE	
TOP / TOE	CUT OR FILL SLOPE	TOP / TOE
	CENTER LINE	
	HIDDEN LINE	
	EDGE OF ROAD/DITCH	
TR	℄ TRAIL	TR
	℄ RAILROAD	
	PROPERTY AND LOT LINES	
	SCVWD PERMANENT EASEMENT	
	SCVWD FEE / PROPERTY	
	TEMPORARY CONSTRUCTION EASEMENT (TCE)	
	ACCESS EASEMENT	
	COUNTY PROPERTY LINE	
	UTILITY EASEMENT	
	MONUMENT LINE	
	GRADING LIMIT	

GENERAL TEXT

EXIST STRUCTURE	EXISTING CALLOUT
CALLOUT FOR PROPOSED WORK OR NEW STRUCTURE	DESIGN CALLOUT
1'–6 1/2"	EXISTING DIMENSION
1'–6 1/2"	DESIGN DIMENSION
JOHN DOE APN XXX-XX-XXX	OWNER NAME TEXT
STREET NAME/ CREEK NAME	EXISTING MAJOR STREET AND CREEK NAME TEXT
MINOR STREET NAME/ MAINTENANCE ROAD	EXISTING MINOR STREET NAME AND MAINTENANCE ROAD
TITLE HEADER / HEADER DATA / DATA	GENERAL TABLE
PLAN SCALE: 1" = XX'	PLAN TITLE

DETAIL AND SECTION DESIGNATION

* IF SECTION OR DETAIL APPEARS ON THE SAME DRAWING AS THE CALLOUT, THE DRAWING REFERENCE IS REPLACED WITH A DASH (–)

A / C–3
- A SECTION LETTER
- DRAWING ON WHICH SECTION APPEARS*

SECTION A / C–1 TITLE
SCALE:
- A SECTION LETTER
- DRAWING ON WHICH SECTION WAS TAKEN*

1 / C–4
- 1 DETAIL NUMBER
- C–4 INDICATES DRAWING ON WHICH DETAIL APPEARS*

DETAIL # / C–2 TITLE
SCALE:
- # DETAIL NUMBER
- C–2 INDICATES DRAWING ON WHICH DETAIL WAS REFERENCED*

STA XX+00 – MATCHLINE – SEE SHEET C–XX

SYMBOLS LEGEND

EXISTING		PROPOSED
JP	JOINT POLE	JP
PP	POWER POLE	PP
TP	TELEPHONE POLE	TP
E	ELECTRICAL MANHOLE	E
EM	ELECTRIC METER	EM
SD	STORM DRAIN MANHOLE	SD
CB	CATCH BASIN / SD INLET	CB
CO	SANITARY CLEANOUT	CO
S	SANITARY MANHOLE	SS
T	TELEPHONE MANHOLE	T
	WATER VALVE	
WM	WATER METER	WM
	BLOWOFF	
H	FIRE HYDRANT	H
GV	GAS VALVE	GV
GM	GAS METER	GM
A	DEEP ANODE BED	A
R	REFERENCE ELECTRODE TEST STATION	R
IJ	INSULATION JOINT	IJ
PV	PRECAST VAULT	PV
TL	TELEMETRY CABLE PULLBOX	TL
V	VENTILATION STRUCTURE	V
	WATER SURFACE ELEVATION	
V	AIR RELEASE VALVE	V
	TREE	
	TREE WRAP PROTECTION 1	

SURVEY

- HORIZONTAL CONTROL
- VERTICAL CONTROL
- HORIZONTAL VERTICAL CONTROL
- TEMPORARY BENCH MARK

MISCELLANEOUS

- ELECTROLIER
- ELECTROLIER
- GUY WIRE
- STORM DRAIN OUTFALL
- FLOW — FLOW SYMBOL
- A B C — STRUCTURE ROCK
- LOG WITH ROOTWAD
- FOOTER LOG
- N — NORTH ARROW

TRAFFIC CONTROL

- SIGN–1
- SIGN–2
- BUS STOP
- TRAFFIC DIRECTION
- TRAFFIC CONE
- CONSTRUCTION SIGN
- FLASHING ARROW SIGN
- TYPE I – TRAFFIC BARRICADE
- TYPE III – TRAFFIC BARRICADE
- K–RAIL BARRIER

PIPE SYMBOLS

- FLANGED COUPLING ADAPTER
- FLANGED PIPING
- EXISTING PIPING
- BALL VALVE
- AIR RELEASE VALVE
- FLEXIBLE (MECHANICAL) COUPLING
- WELDED PIPING
- THREADED PIPING
- PIPING WITH INSULATION INDICATED

HATCH LEGEND

- CAST IRON, FIBERGLASS
- BRONZE, BRASS, COPPER
- ALUMINUM
- TYPE 2 AGGREGATE BASE
- CONCRETE
- SAND
- SACKED CONCRETE LINING
- WOOD GRAIN
- GLASS
- GRATING
- UNGROUTED ROCK LINING
- BANKLINE ROCK
- ESM
- STEEL
- PROPOSED POOL
- TREAD PLATE
- EXISTING GROUND
- COMPACTED FILL
- BRICK
- ARTICULATED CONCRETE BLOCK
- AGGREGATE BASE (PLAN VIEW)
- PROPOSED BACKING MATERIAL

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2 ADDENDA DRAWING 05–15–25	5/25	DR	

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER D. M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
GENERAL ABBREVIATIONS, LEGENDS, AND SYMBOLS

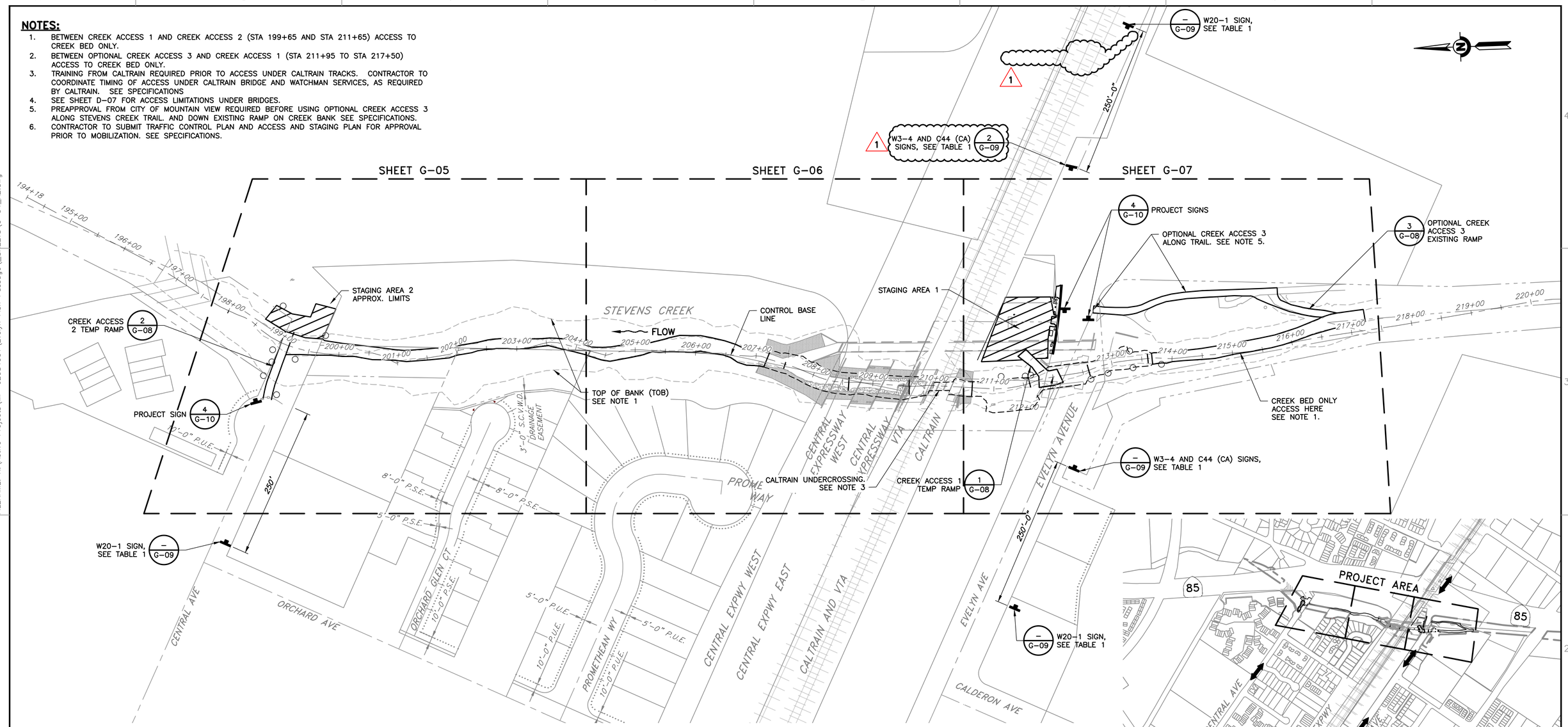
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001
SHEET CODE: 1 G–03
SHEET NUMBER: 3

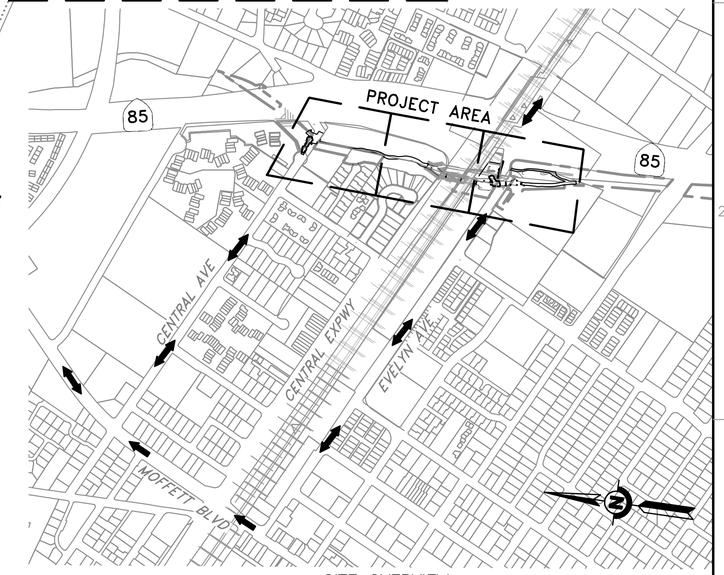
DOCUMENT NUMBER: STV_LP–G–1029–84698
USERNAME: TungTran 5/19/2025 10:40 AM
FILENAME: K:\Active Projects\MP–62084001\Evelyn Fish Passage_SHEETS\G–03_A2.dwg

NOTES:

1. BETWEEN CREEK ACCESS 1 AND CREEK ACCESS 2 (STA 199+65 AND STA 211+65) ACCESS TO CREEK BED ONLY.
2. BETWEEN OPTIONAL CREEK ACCESS 3 AND CREEK ACCESS 1 (STA 211+95 TO STA 217+50) ACCESS TO CREEK BED ONLY.
3. TRAINING FROM CALTRAIN REQUIRED PRIOR TO ACCESS UNDER CALTRAIN TRACKS. CONTRACTOR TO COORDINATE TIMING OF ACCESS UNDER CALTRAIN BRIDGE AND WATCHMAN SERVICES, AS REQUIRED BY CALTRAIN. SEE SPECIFICATIONS
4. SEE SHEET D-07 FOR ACCESS LIMITATIONS UNDER BRIDGES.
5. PREAPPROVAL FROM CITY OF MOUNTAIN VIEW REQUIRED BEFORE USING OPTIONAL CREEK ACCESS 3 ALONG STEVENS CREEK TRAIL. AND DOWN EXISTING RAMP ON CREEK BANK SEE SPECIFICATIONS.
6. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN AND ACCESS AND STAGING PLAN FOR APPROVAL PRIOR TO MOBILIZATION. SEE SPECIFICATIONS.



PROJECT AREA
SCALE: 1" = 80'



SITE OVERVIEW
SCALE: 1" = 500'

USERNAME: TungTran 5/19/2025 10:40 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-04_A2.dwg

DOCUMENT NUMBER: STV_LP-G-1029-84699

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES
SANTA CLARA COUNTY PARCEL MAP SEPTEMBER 2021.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
STAGING, ACCESS, AND OVERVIEW PLAN

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 1 G-04
SHEET NUMBER: 4

USERNAME: TungTran 5/19/2025 10:40 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-07_A2.dwg

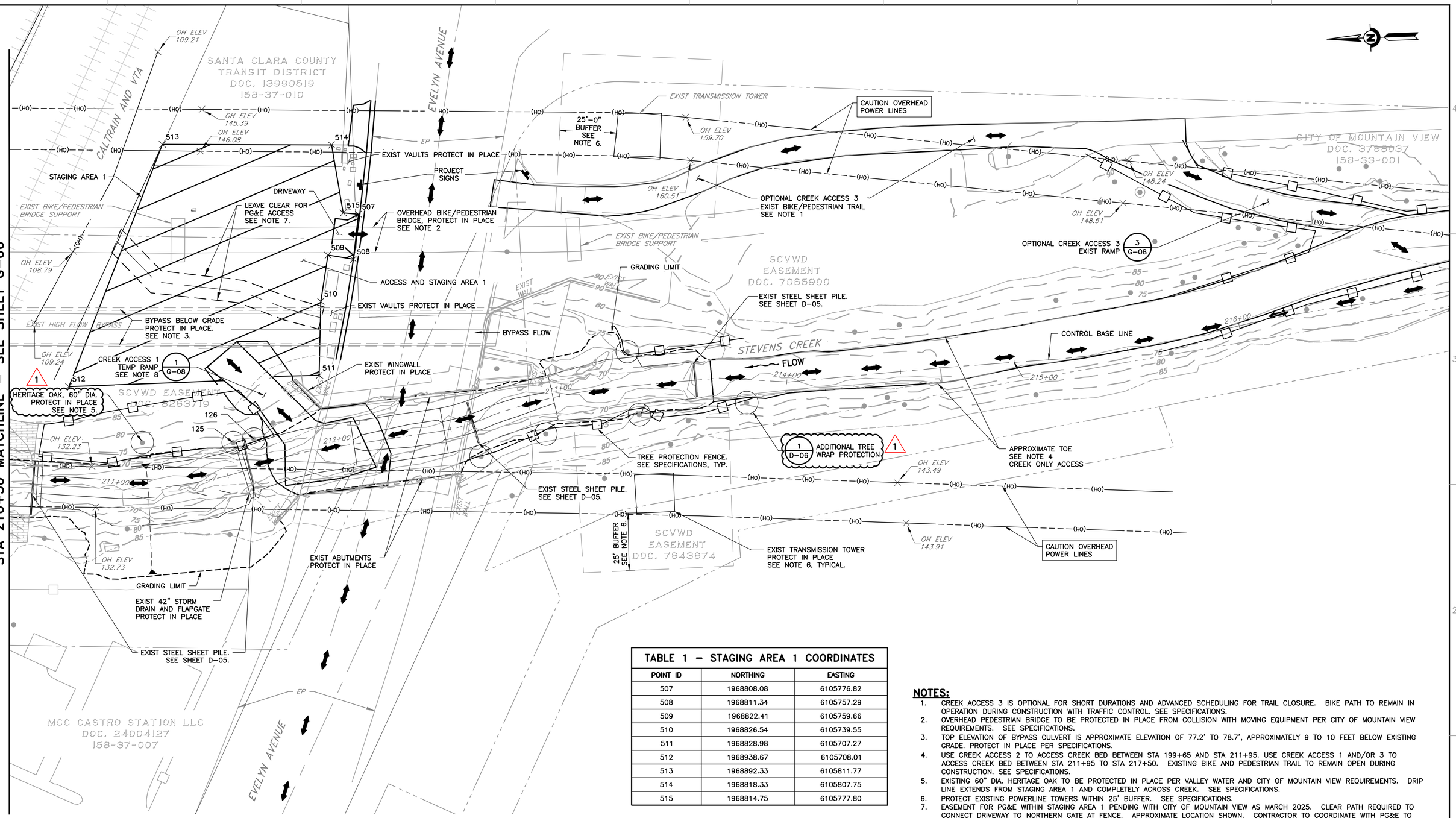


TABLE 1 – STAGING AREA 1 COORDINATES

POINT ID	NORTHING	EASTING
507	1968808.08	6105776.82
508	1968811.34	6105757.29
509	1968822.41	6105759.66
510	1968826.54	6105739.55
511	1968828.98	6105707.27
512	1968938.67	6105708.01
513	1968892.33	6105811.77
514	1968818.33	6105807.75
515	1968814.75	6105777.80

SITE PLAN
SCALE: 1" = 20'

NOTES:

1. CREEK ACCESS 3 IS OPTIONAL FOR SHORT DURATIONS AND ADVANCED SCHEDULING FOR TRAIL CLOSURE. BIKE PATH TO REMAIN IN OPERATION DURING CONSTRUCTION WITH TRAFFIC CONTROL. SEE SPECIFICATIONS.
2. OVERHEAD PEDESTRIAN BRIDGE TO BE PROTECTED IN PLACE FROM COLLISION WITH MOVING EQUIPMENT PER CITY OF MOUNTAIN VIEW REQUIREMENTS. SEE SPECIFICATIONS.
3. TOP ELEVATION OF BYPASS CULVERT IS APPROXIMATE ELEVATION OF 77.2' TO 78.7', APPROXIMATELY 9 TO 10 FEET BELOW EXISTING GRADE. PROTECT IN PLACE PER SPECIFICATIONS.
4. USE CREEK ACCESS 2 TO ACCESS CREEK BED BETWEEN STA 199+65 AND STA 211+95. USE CREEK ACCESS 1 AND/OR 3 TO ACCESS CREEK BED BETWEEN STA 211+95 TO STA 217+50. EXISTING BIKE AND PEDESTRIAN TRAIL TO REMAIN OPEN DURING CONSTRUCTION. SEE SPECIFICATIONS.
5. EXISTING 60" DIA. HERITAGE OAK TO BE PROTECTED IN PLACE PER VALLEY WATER AND CITY OF MOUNTAIN VIEW REQUIREMENTS. DRIP LINE EXTENDS FROM STAGING AREA 1 AND COMPLETELY ACROSS CREEK. SEE SPECIFICATIONS.
6. PROTECT EXISTING POWERLINE TOWERS WITHIN 25' BUFFER. SEE SPECIFICATIONS.
7. EASEMENT FOR PG&E WITHIN STAGING AREA 1 PENDING WITH CITY OF MOUNTAIN VIEW AS MARCH 2025. CLEAR PATH REQUIRED TO CONNECT DRIVEWAY TO NORTHERN GATE AT FENCE. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO COORDINATE WITH PG&E TO COMPLY WITH EASEMENT REQUIREMENTS. SEE SPECIFICATIONS.
8. CREEK ACCESS 1 TEMPORARY RAMP TO BE RESTORED TO PRE-PROJECT GRADE AND CONDITIONS. SEE SPECIFICATIONS.
9. CONTRACTOR TO STAKE STAGING AREA 1 PER COORDINATES IN TABLE 1. SCVWD TO APPROVE LOCATION OF STAGING AREA PRIOR TO MOBILIZATION.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES
SANTA CLARA COUNTY PARCEL MAP SEPTEMBER 2021.

DATE
04/07/2025
DESIGN
D. RUTTENBERG
DRAWN
T. TRAN
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
M RUTTENBERG
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK
EVELYN FISH PASSAGE PROJECT

STAGING AND ACCESS PLAN
STA 210+50 TO 217+50

SCALE
AS SHOWN

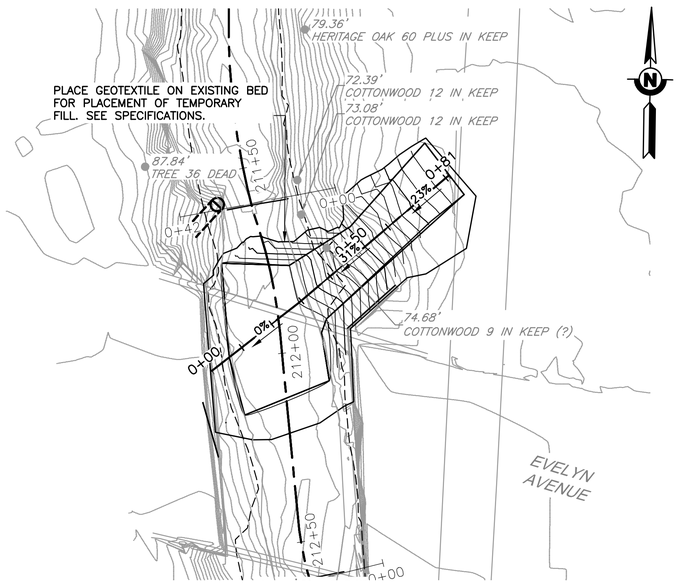
PROJECT NUMBER
62084001

VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SHEET CODE: 1
G-07

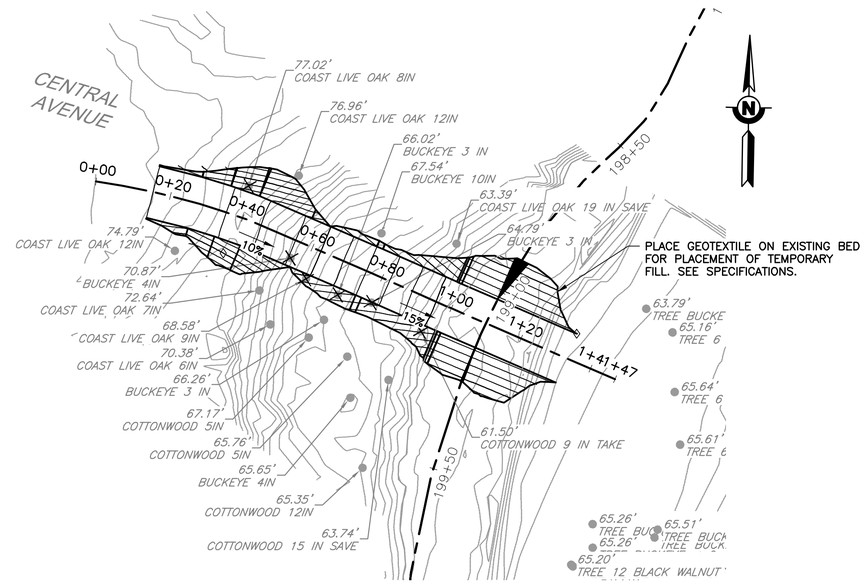
SHEET NUMBER:
7

DOCUMENT NUMBER: STV_LP-G-1029-84702



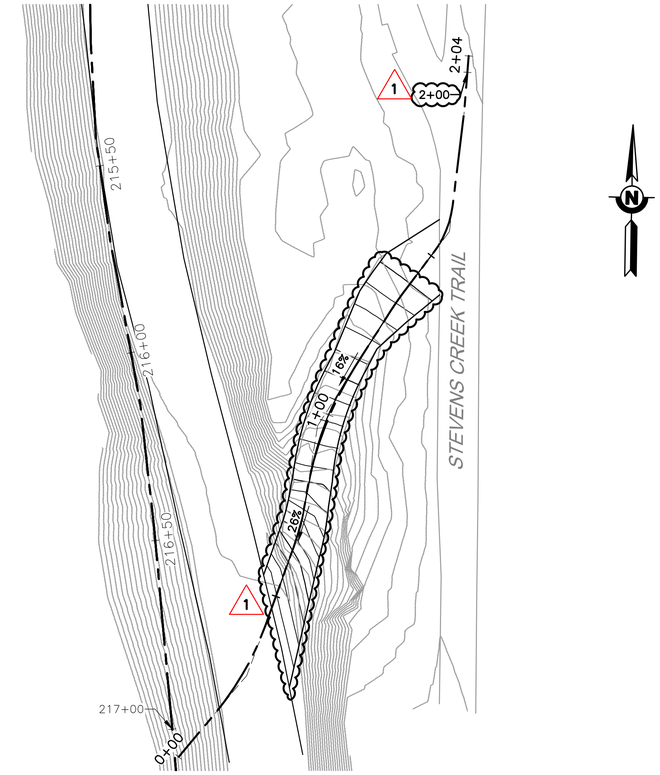
CREEK ACCESS 1 TEMPORARY RAMP – PLAN

SCALE: 1" = 20'



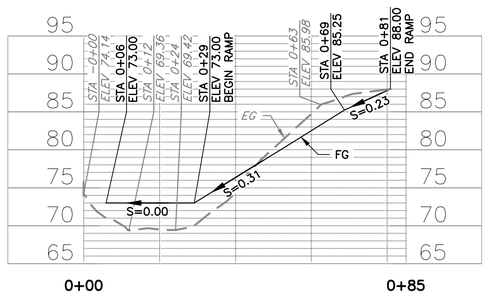
CREEK ACCESS 2 TEMPORARY RAMP – PLAN

SCALE: 1" = 20'



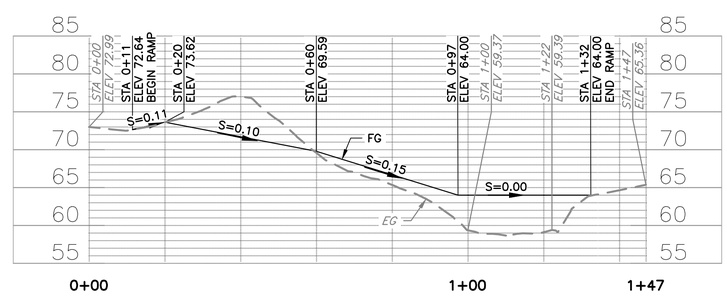
CREEK ACCESS 3 TEMPORARY RAMP – PLAN

SCALE: 1" = 20'



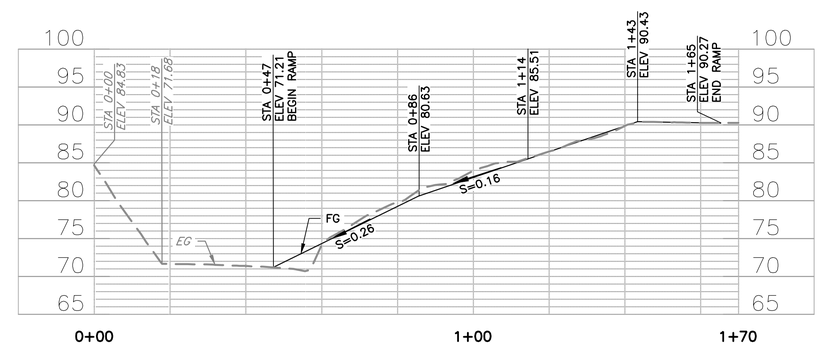
CREEK ACCESS 1 TEMPORARY RAMP – PROFILE

HORIZ: 1" = 20'
VERT: 1" = 10'



CREEK ACCESS 2 TEMPORARY RAMP – PROFILE

HORIZ: 1" = 20'
VERT: 1" = 10'



CREEK ACCESS 3 TEMPORARY RAMP – PROFILE

HORIZ: 1" = 20'
VERT: 1" = 10'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER D. M. RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

CREEK ACCESS TEMPORARY RAMPS EXAMPLE DETAILS AND PROFILES

SCALE: AS SHOWN

VERIFY SCALES 0 1"

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

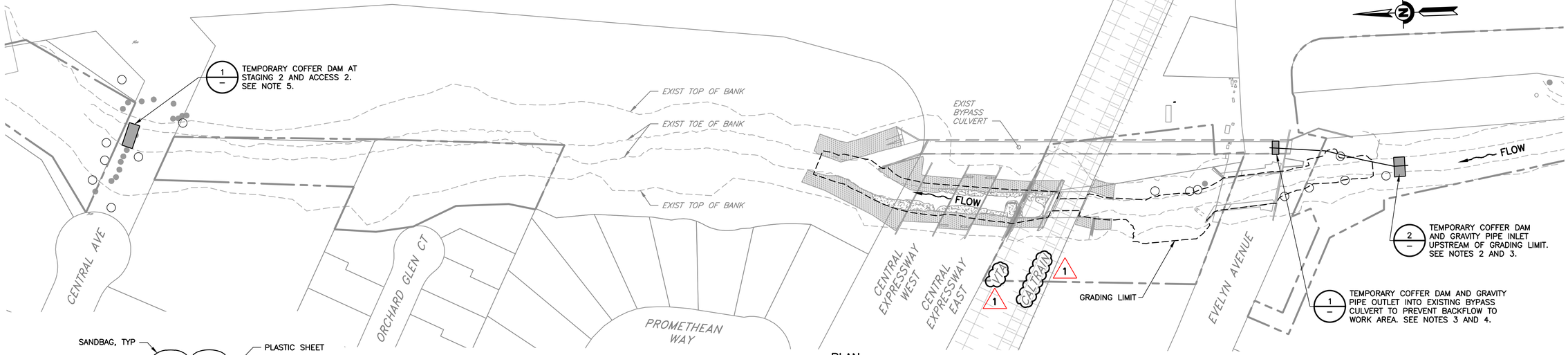
PROJECT NUMBER 62084001

SHEET CODE: 1 G-08

SHEET NUMBER: 8

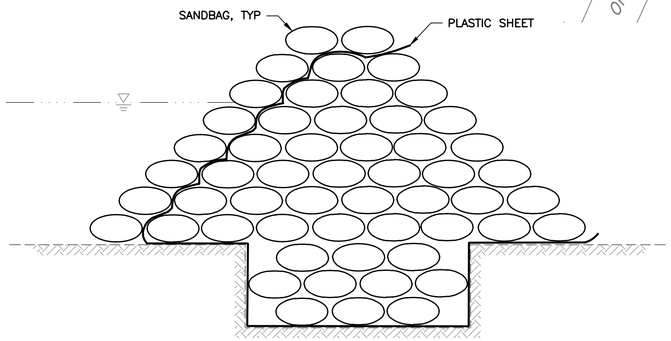
DOCUMENT NUMBER: STV_LP-G-1029-84703

USERNAME: TungTran 5/19/2025 10:41 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-08_A2.dwg



PLAN

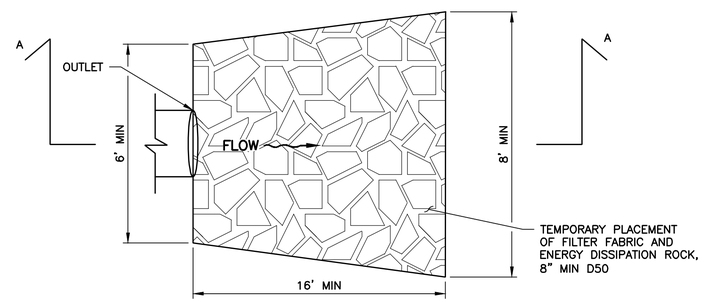
SCALE: 1" = 60'



TYPICAL SANDBAG WALLS

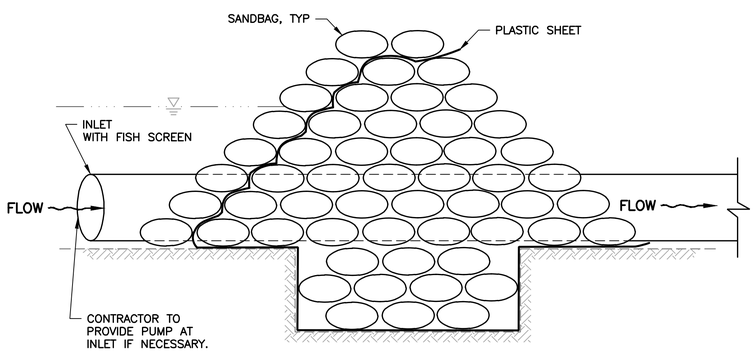
DETAIL 1 – TEMPORARY COFFER DAM

SCALE: NTS



DETAIL 3A – PLAN – TEMPORARY COFFER DAM WITH GRAVITY PIPE OUTLET

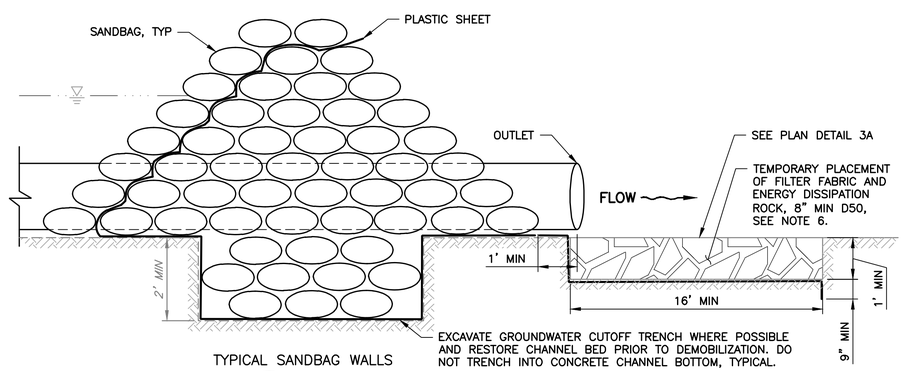
SCALE: NTS



TYPICAL SANDBAG WALLS

DETAIL 2 – TEMPORARY COFFER DAM WITH GRAVITY PIPE INLET

SCALE: NTS



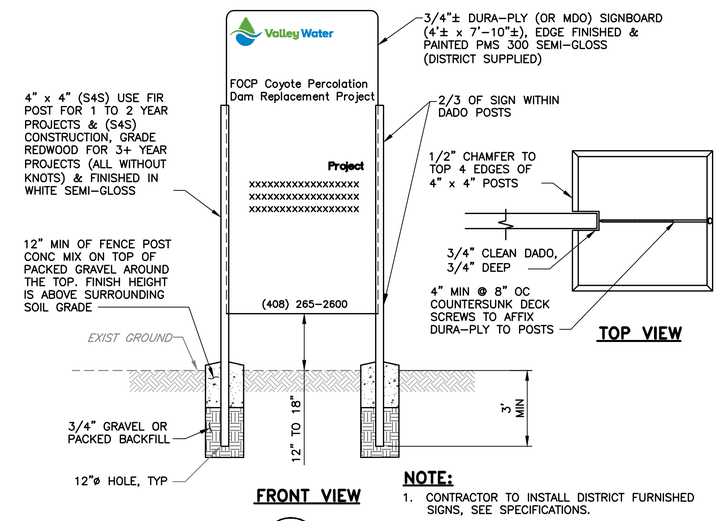
TYPICAL SANDBAG WALLS

DETAIL 3B – PROFILE A – TEMPORARY COFFER DAM WITH GRAVITY PIPE OUTLET

SCALE: NTS

NOTES:

1. THIS SHEET IS AN EXAMPLE OF ONE TYPE OF CREEK DIVERSION SYSTEM. CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL THEIR OWN CREEK DIVERSION PLAN THAT ALLOWS ADEQUATE CREEK BED ACCESS AND SCHEDULING OF THEIR WORK AS SHOWN IN THE SPECIFICATIONS.
2. CONSTRUCT A TEMPORARY UPSTREAM COFFER DAM AND INSTALL A MINIMUM 30" PIPE DIA. GRAVITY BYPASS PIPE TO CAPTURE STORM FLOW.
3. DIVERT STORM FLOW UPSTREAM GRADING AREA IN GRAVITY PIPE FLOW TO THE FLOOD BYPASS CHANNEL ENTRANCE OUTSIDE OF THE GRADING LIMIT UNDER EVELYN AVE.
4. DIVERTED STORM WATER TO RUN DOWN EXISTING BYPASS CULVERT TO EXIT DOWNSTREAM OF CENTRAL EXPRESSWAY WEST.
5. CONSTRUCT A TEMPORARY DOWNSTREAM COFFER DAM AND AN ACCESS ROAD ACROSS CREEK TO STAGING AREA 2 NEAR CENTRAL AVE.
6. INSTALL DOWNSTREAM OUTLET AND ENERGY DISSIPATION ACCORDING TO CALIFORNIA STORMWATER BMP HANDBOOK, DETAIL EC–10.
7. STAGE EQUIPMENT AND MATERIALS AS NEEDED FOR EMERGENCY DEPLOYMENT OF DIVERSION SYSTEM, AS NEEDED.
8. IF NECESSARY, CONTRACTOR MAY NEED TO INSTALL ADDITIONAL DIVERSION PIPE BETWEEN CENTRAL EXPWY AND CREEK ACCESS 2 TO ALLOW CREEK BED ACCESS DURING CONSTRUCTION. CONTRACTOR SHALL ALSO INSTALL AN ENERGY DISSIPATION STRUCTURE AT THE OUTLET OF THE DIVERSION PIPE.
9. CONTRACTOR TO PUMP, STORE, AND RELEASE INCIDENTAL GROUNDWATER TO COMPLETE WORK, AS NEEDED AND IN COMPLIANCE WITH PROJECT PERMITS.



NOTE:

1. CONTRACTOR TO INSTALL DISTRICT FURNISHED SIGNS, SEE SPECIFICATIONS.

DETAIL 4 (G–04) – PROJECT SIGN

SCALE: NTS

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING 05–15–25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025

DESIGN D. RUTTENBERG

DRAWN T. TRAN

CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER D. M. RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

EXAMPLE DEWATERING & DIVERSION PLAN

SCALE: AS SHOWN

VERIFY SCALES 0 1"

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

PROJECT NUMBER 62084001

SHEET CODE: 1 G–10

SHEET NUMBER: 10

DOCUMENT NUMBER: STV_LP–G–1029–84705

USERNAME: TungTran 5/19/2025 10:41 AM
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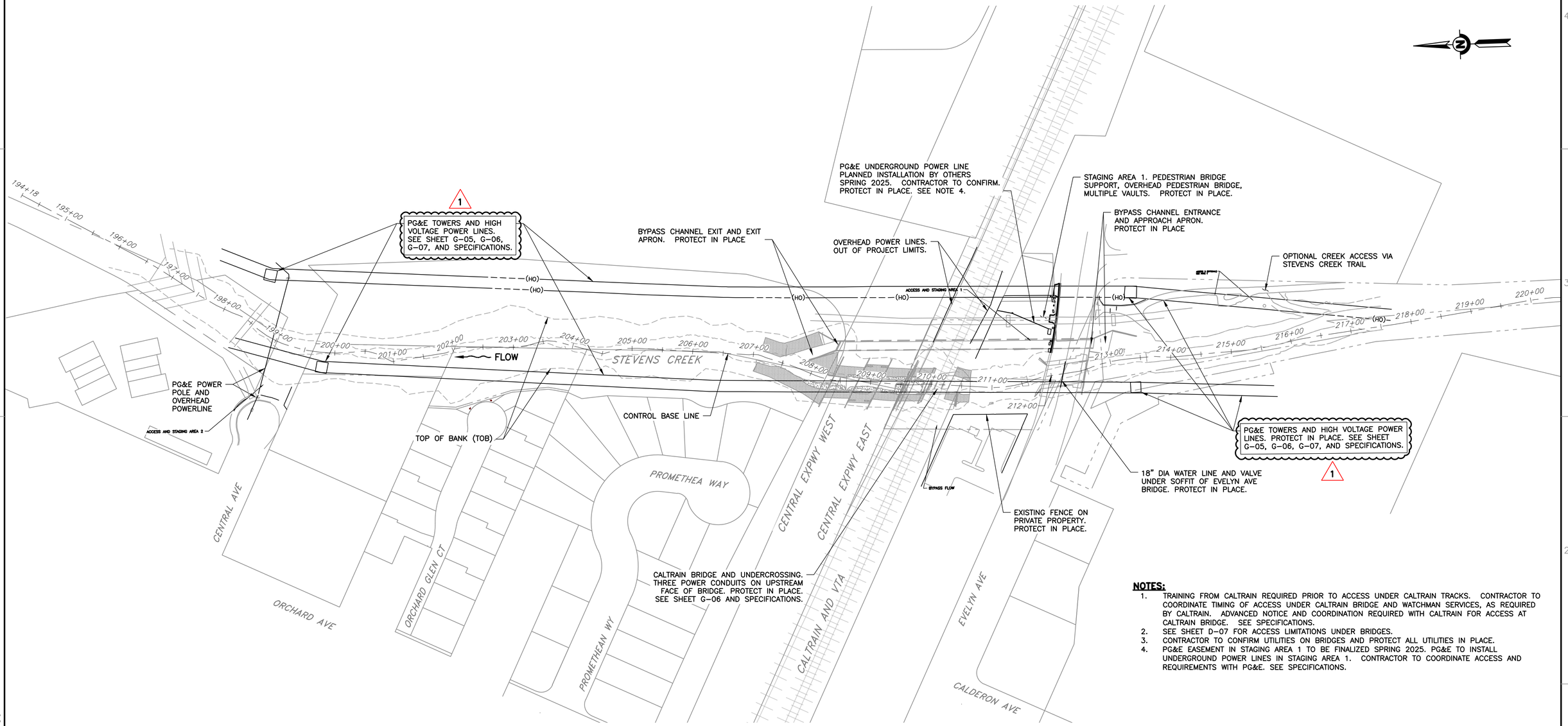


PROJECT AREA

SCALE: 1" = 80'

NOTES:

1. TRAINING FROM CALTRAIN REQUIRED PRIOR TO ACCESS UNDER CALTRAIN TRACKS. CONTRACTOR TO COORDINATE TIMING OF ACCESS UNDER CALTRAIN BRIDGE AND WATCHMAN SERVICES, AS REQUIRED BY CALTRAIN. ADVANCED NOTICE AND COORDINATION REQUIRED WITH CALTRAIN FOR ACCESS AT CALTRAIN BRIDGE. SEE SPECIFICATIONS.
2. SEE SHEET D-07 FOR ACCESS LIMITATIONS UNDER BRIDGES.
3. CONTRACTOR TO CONFIRM UTILITIES ON BRIDGES AND PROTECT ALL UTILITIES IN PLACE.
4. PG&E EASEMENT IN STAGING AREA 1 TO BE FINALIZED SPRING 2025. PG&E TO INSTALL UNDERGROUND POWER LINES IN STAGING AREA 1. CONTRACTOR TO COORDINATE ACCESS AND REQUIREMENTS WITH PG&E. SEE SPECIFICATIONS.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES
SANTA CLARA COUNTY PARCEL MAP SEPTEMBER 2021.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
EXISTING UTILITY PLAN

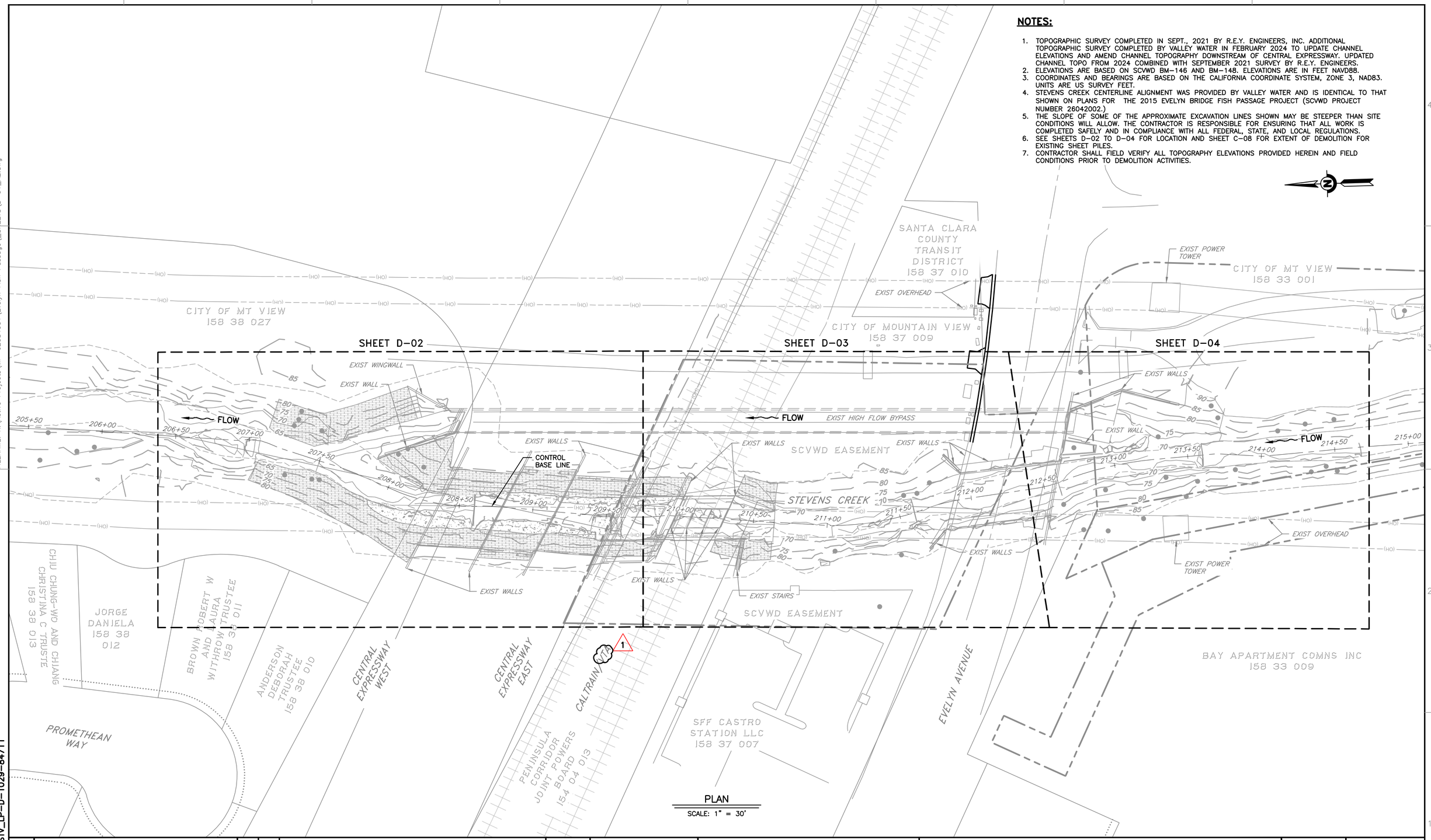
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001
SHEET CODE: 1 G-11
SHEET NUMBER: 11

DOCUMENT NUMBER: STV_LP-G-1029-84706

NOTES:

1. TOPOGRAPHIC SURVEY COMPLETED IN SEPT., 2021 BY R.E.Y. ENGINEERS, INC. ADDITIONAL TOPOGRAPHIC SURVEY COMPLETED BY VALLEY WATER IN FEBRUARY 2024 TO UPDATE CHANNEL ELEVATIONS AND AMEND CHANNEL TOPOGRAPHY DOWNSTREAM OF CENTRAL EXPRESSWAY. UPDATED CHANNEL TOPO FROM 2024 COMBINED WITH SEPTEMBER 2021 SURVEY BY R.E.Y. ENGINEERS.
2. ELEVATIONS ARE BASED ON SCVWD BM–146 AND BM–148. ELEVATIONS ARE IN FEET NAVD88.
3. COORDINATES AND BEARINGS ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83. UNITS ARE US SURVEY FEET.
4. STEVENS CREEK CENTERLINE ALIGNMENT WAS PROVIDED BY VALLEY WATER AND IS IDENTICAL TO THAT SHOWN ON PLANS FOR THE 2015 EVELYN BRIDGE FISH PASSAGE PROJECT (SCVWD PROJECT NUMBER 26042002.)
5. THE SLOPE OF SOME OF THE APPROXIMATE EXCAVATION LINES SHOWN MAY BE STEEPER THAN SITE CONDITIONS WILL ALLOW. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK IS COMPLETED SAFELY AND IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
6. SEE SHEETS D–02 TO D–04 FOR LOCATION AND SHEET C–08 FOR EXTENT OF DEMOLITION FOR EXISTING SHEET PILES.
7. CONTRACTOR SHALL FIELD VERIFY ALL TOPOGRAPHY ELEVATIONS PROVIDED HEREIN AND FIELD CONDITIONS PRIOR TO DEMOLITION ACTIVITIES.



PLAN
SCALE: 1" = 30'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05–15–25

REFERENCE INFORMATION AND NOTES

DATE
04/07/2025
DESIGN
D. RUTTENBERG
DRAWN
T. TRAN
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DENIS M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

EXISTING TOPOGRAPHY AND DEMOLITION PLAN OVERVIEW

SCALE: AS SHOWN

VERIFY SCALES 0 1"

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

PROJECT NUMBER: 62084001

SHEET CODE: 1 D–01

SHEET NUMBER: 16

DOCUMENT NUMBER: STV_LP–D–1029–84711

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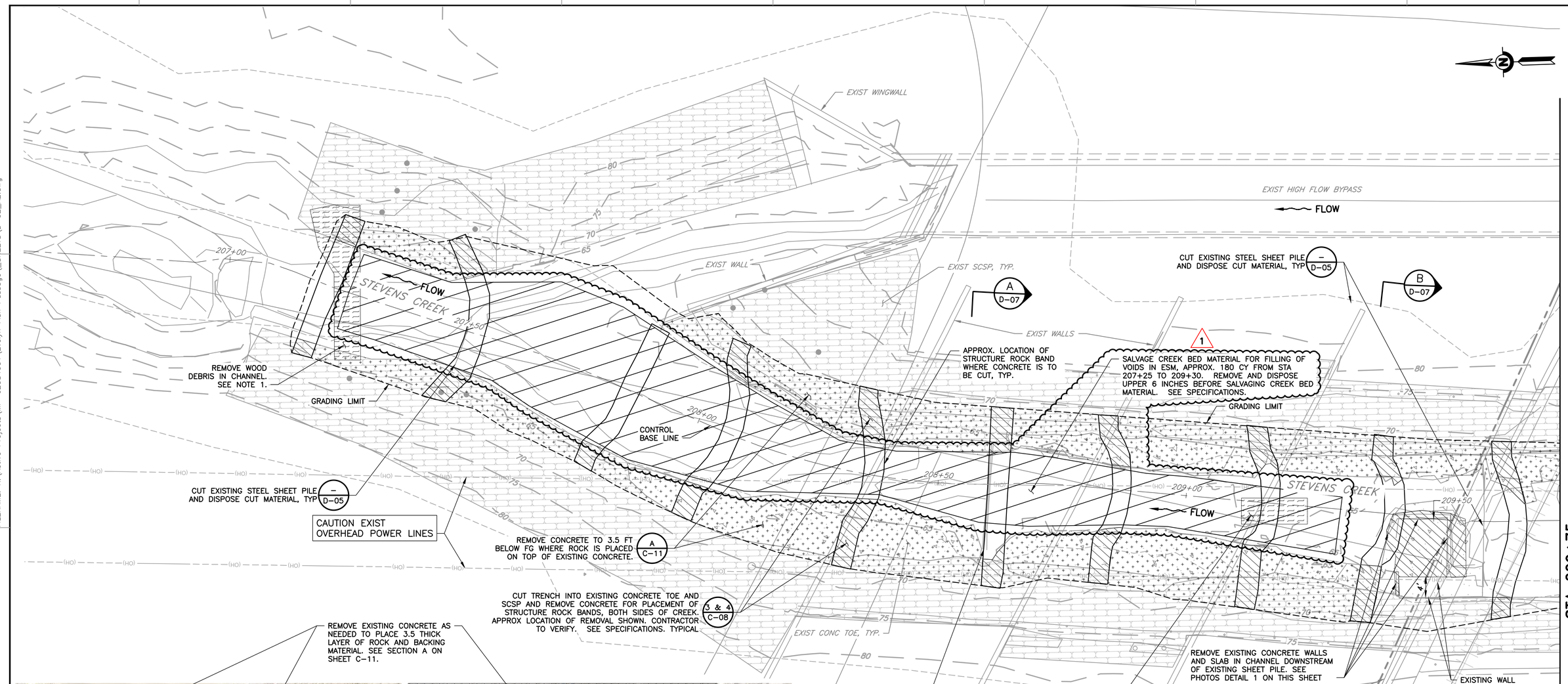
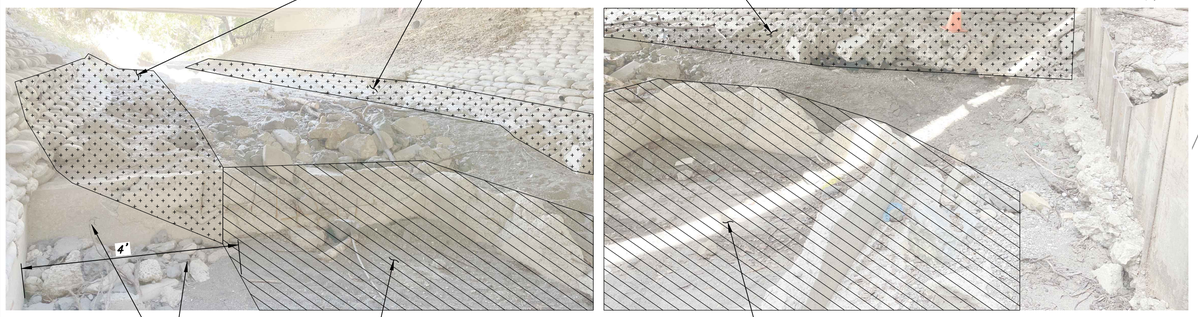




DETAIL 1
SCALE: NTS

NOTE:
1. LOCATIONS OF WOOD DEBRIS IN CREEK ARE FROM VISUAL OBSERVATIONS IN FEBRUARY 2025. WOOD DEBRIS MAY HAVE MOVED DUE TO HIGH FLOWS IN CREEK PRIOR TO TIME CONTRACTOR BEGINS WORK.

PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
04/07/2025	REGISTERED PROFESSIONAL ENGINEER DAVID M. RUTTENBERG CIVIL STATE OF CALIFORNIA
DESIGN D. RUTTENBERG	SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
DRAWN T. TRAN	
CHECKED K. NEUMAN	ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

EXISTING TOPOGRAPHY AND DEMOLITION PLAN STA 205+50 TO STA 209+64

SCALE: AS SHOWN

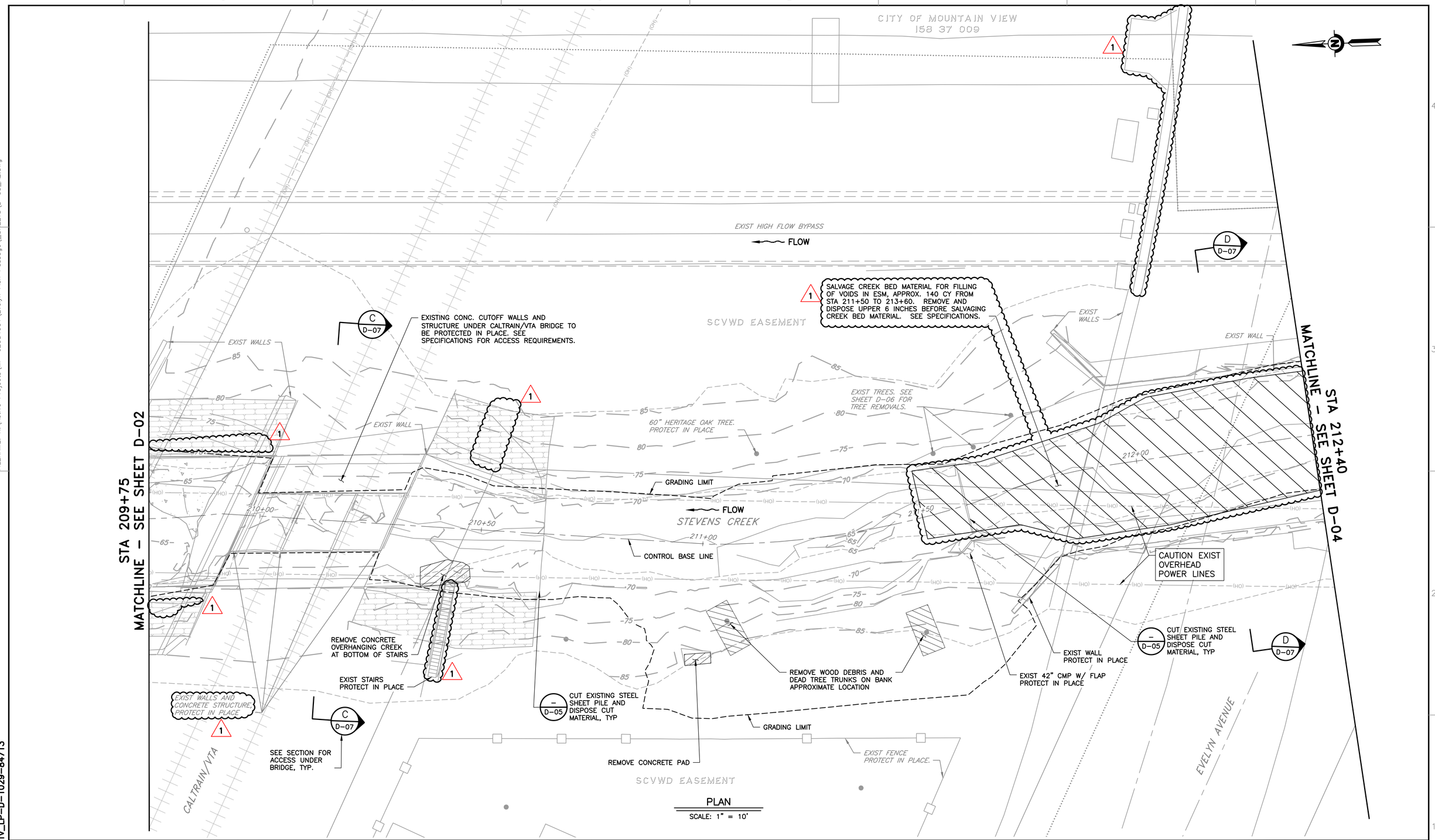
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001

SHEET CODE: 1 D-02

SHEET NUMBER: 17

DOCUMENT NUMBER: STV_LP-D-1029-84712



PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING
05-15-25

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER WILLIAM RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

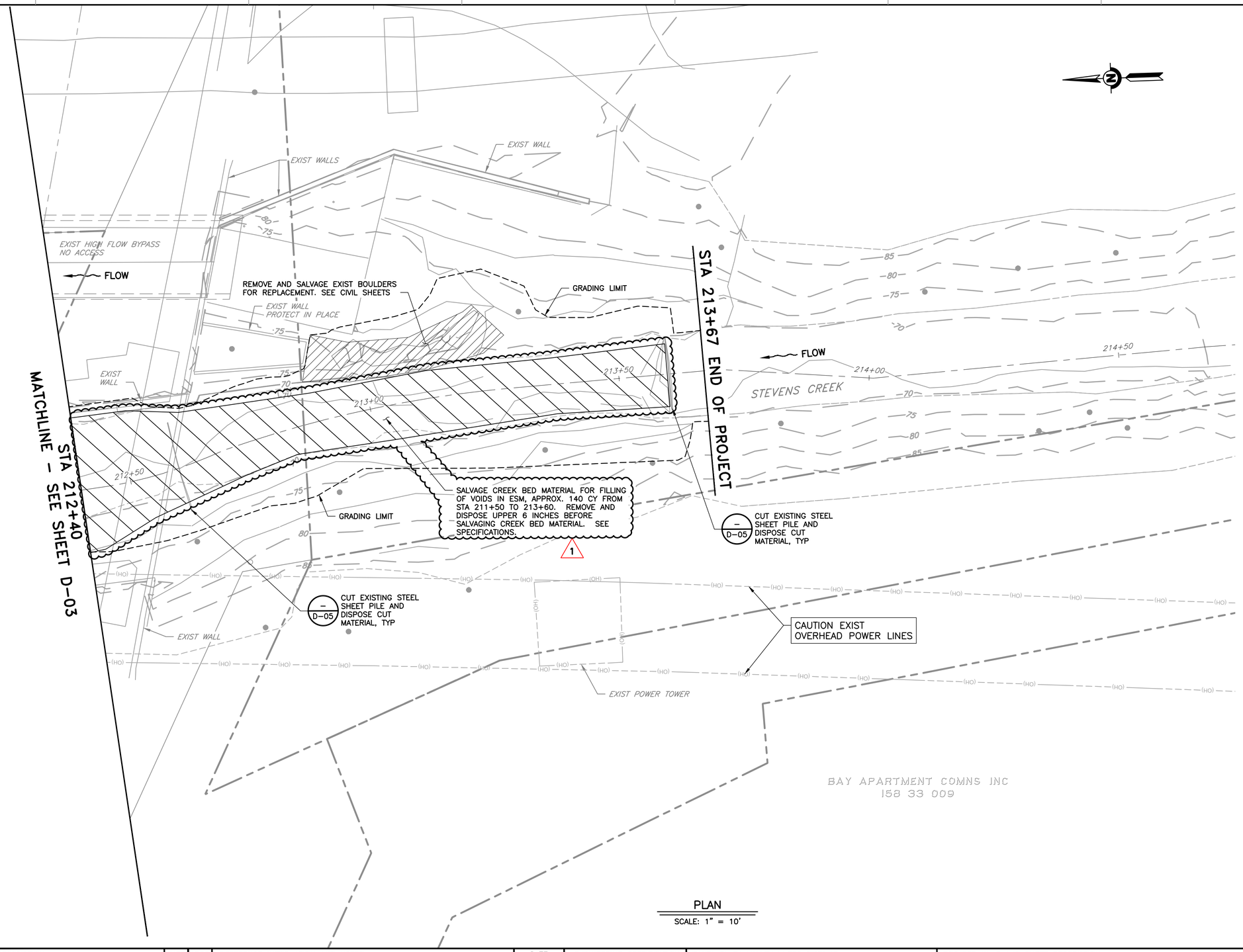
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
EXISTING TOPOGRAPHY AND DEMOLITION PLAN STA 209+64 TO STA 212+40

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 1 D-03
SHEET NUMBER: 18

DOCUMENT NUMBER: STV_LP-D-1029-84713



PLAN
SCALE: 1" = 10'

DOCUMENT NUMBER: STV_LP-D-1029-84714

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

DATE
04/07/2025
DESIGN
D. RUTTENBERG
DRAWN
T. TRAN
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DAVIS M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

EXISTING TOPOGRAPHY AND DEMOLITION PLAN STA 212+40 TO STA 213+67

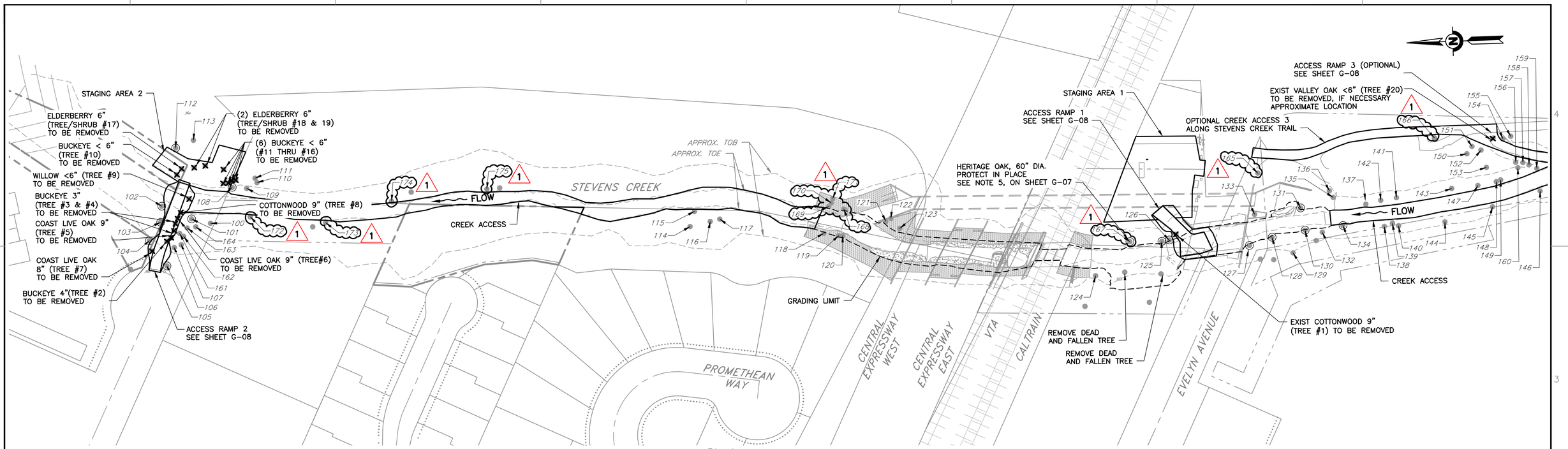
SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001

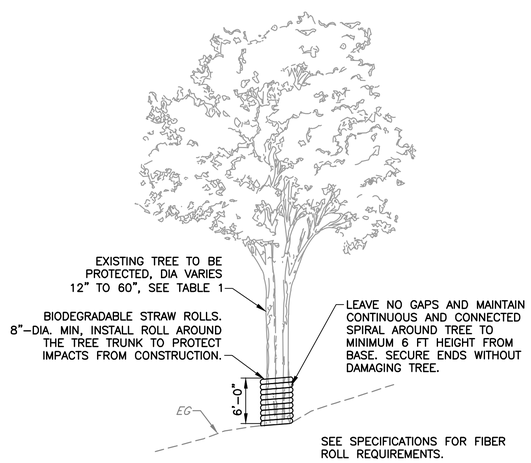
SHEET CODE: 1 D-04

SHEET NUMBER: 19



PLAN

SCALE: 1" = 60'



DETAIL 1 — TREE WRAP PROTECTION

SCALE: NTS

NOTES:

1. SEE TABLE 1 ON THIS SHEET

TABLE 1 – TREES TO BE PROTECTED IN PLACE

TREE ID	SPECIES AND DBH(INCHES)
100	COTTONWOOD 12IN
101	COTTONWOOD 15IN
102	COAST LIVE OAK 19IN
103	BUCKEYE 10IN
104	COAST LIVE OAK 12IN
105	COAST LIVE OAK 12IN
106	COAST LIVE OAK 7IN
107	COAST LIVE OAK 6IN
108	BLACK WALNUT 12IN
109	TREE 12 IN
110	TREE 24 IN
111	TREE 12 IN
112	BLACK WALNUT > 12IN
113	COAST LIVE OAK 48IN
114	BUCKEYE 12IN
115	BUCKEYE 3IN TAKE
116	WALNUT 5IN TAKE
117	WALNUT 6IN TAKE
118	EUCALYPTUS 13IN TAKE
119	COTTONWOOD 11IN
120	COTTONWOOD 11IN

TABLE 1 – TREES TO BE PROTECTED IN PLACE

TREE ID	SPECIES AND DBH(INCHES)
121	HOLLYLEAF CHERRY 5IN
122	HOLLYLEAF CHERRY 12IN
123	POST LIVE OAK 10IN
124	TREE 20IN
125	COTTONWOOD 12IN
126	COTTONWOOD 12IN
127	RED WILLOW 12IN
128	COTTONWOOD 12IN
129	TREE 22IN
130	COTTONWOOD 12IN
131	COTTONWOOD 12IN
132	BUCKEYE 5IN TAKE
133	TREE CLUSTER 12 12 8 6
134	TREE 18IN
135	TREE 10IN
136	TREE 28IN
137	BIGLEAF MAPLE 12IN
138	TREE 36IN
139	TREE 12IN
140	TREE 24IN
141	TREE 8IN

TABLE 1 – TREES TO BE PROTECTED IN PLACE

TREE ID	SPECIES AND DBH(INCHES)
142	TREE 14IN
143	TREE 37IN
144	TREE 18IN
145	TREE 26IN
146	TREE CLUSTER 27 10
147	TREE 40IN
148	TREE 18IN
149	TREE 48IN
150	TREE 10IN
151	TREE 8IN
152	TREE 6IN
153	TREE 12IN
154	TREE 18IN
155	TREE 4IN
156	TREE 10IN
157	TREE 24IN
158	TREE 8IN
159	TREE 20IN
160	TREE 12IN
161	BUCKEYE 3IN
162	COTTONWOOD 5IN

TABLE 1 – TREES TO BE PROTECTED IN PLACE

TREE ID	SPECIES AND DBH(INCHES)
163	COTTONWOOD 5IN
164	BUCKEYE 4IN
165	WILLOW 11
166	TREE 9
167	HERITATE OAK 60"
168	41" COTTONWOOD
169	22" COTTONWOOD
170	13" WILLOW
171	10" WILLOW
172	27" COTTONWOOD
173	24" COTTONWOOD
174	24" COTTONWOOD
175	24" COTTONWOOD

TREES TO BE WRAPPED:

TREES TO RECEIVE TREE WRAP ON TABLE 1 AND AS SHOWN ON DETAIL 1 ARE:

101, 102, 103, 104, 105, 108, 112, 125, 126, 127, 128, 130, 131, 134, 154, 60" HERITAGE OAK

TABLE 2 – TREES FOR REMOVAL FOR TEMPORARY ACCESS

TREE ID	SPECIES	DBH (INCHES)
ACCESS RAMP 1		
1	COTTONWOOD	9"
ACCESS RAMP 2		
2	BUCKEYE	4"
3	BUCKEYE	3"
4	BUCKEYE	3"
5	COAST LIVE OAK	9"
6	COAST LIVE OAK	9"
7	COAST LIVE OAK	8"
8	COTTONWOOD	9"
9	WILLOW (IN CHANNEL)	<6"
STAGING AREA 2		
10	BUCKEYE	<6"
11	BUCKEYE	<6"
12	BUCKEYE	<6"
13	BUCKEYE	<6"
14	BUCKEYE	<6"
15	BUCKEYE	<6"
16	BUCKEYE	<6"
17	ELDERBERRY	6"
18	ELDERBERRY	6"
19	ELDERBERRY	6"
ACCESS RAMP 3 (OPTIONAL)		
20	VALLEY OAK	<6"

NOTES:

1. NO REMOVAL OF NATIVE TREES WITH 12" DBH OR GREATER WILL BE ALLOWED.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING 05-15-25

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DENNIS M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

TREE REMOVAL AND TREE PROTECTION PLAN

SCALE: AS SHOWN

VERIFY SCALES: 0 1"

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

PROJECT NUMBER: 62084001

SHEET CODE: 1 D-06

SHEET NUMBER: 21

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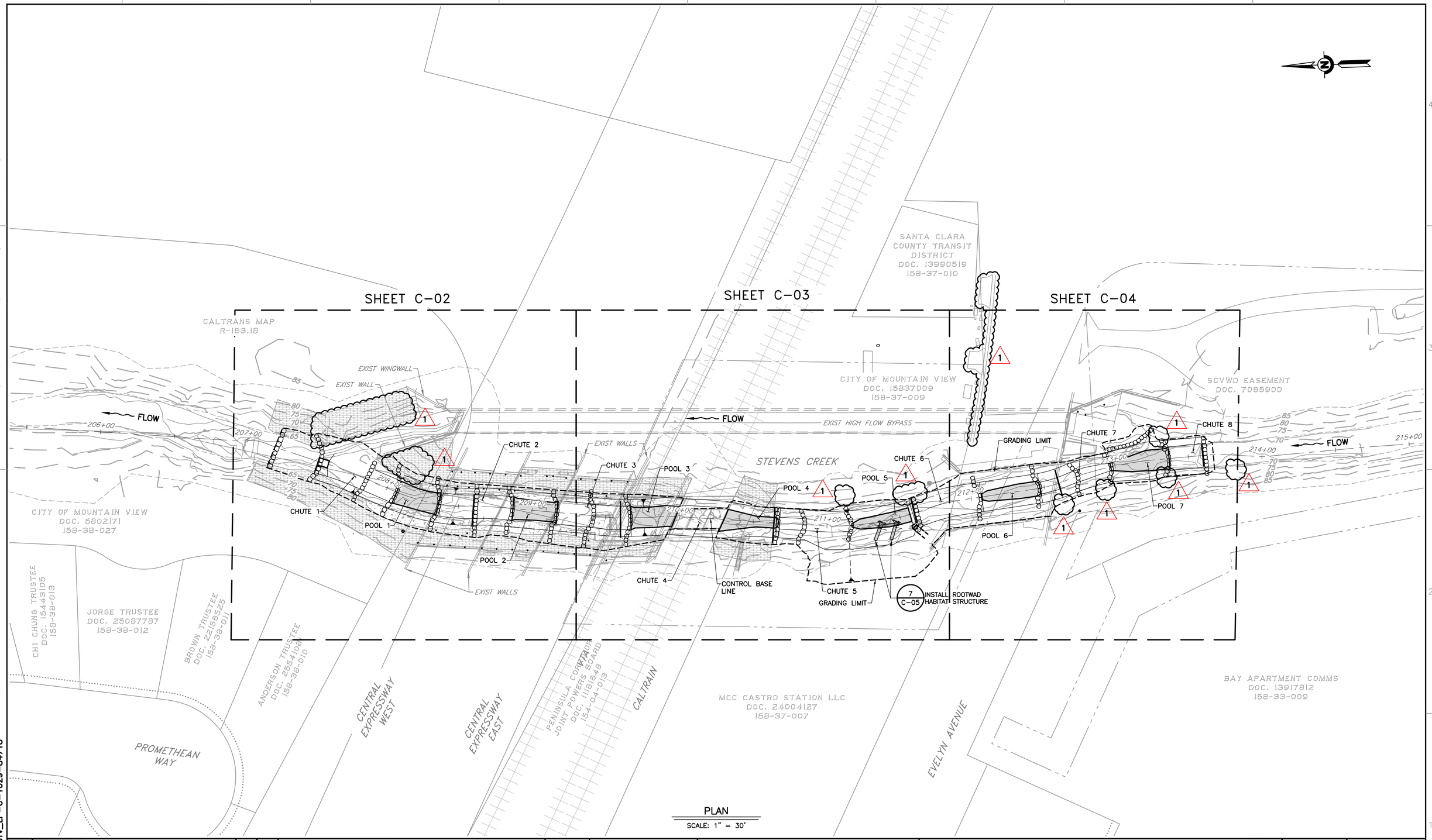

PLAN
SCALE: 1" = 30'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
04/07/2025	SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
DESIGN D. RUTTENBERG	
DRAWN T. TRAN	
CHECKED K. NEUMAN	ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

GRADING PLAN OVERVIEW

SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001

SHEET CODE: 1 C-01

SHEET NUMBER: 23

DOCUMENT NUMBER: STV_LP-C-1029-84718

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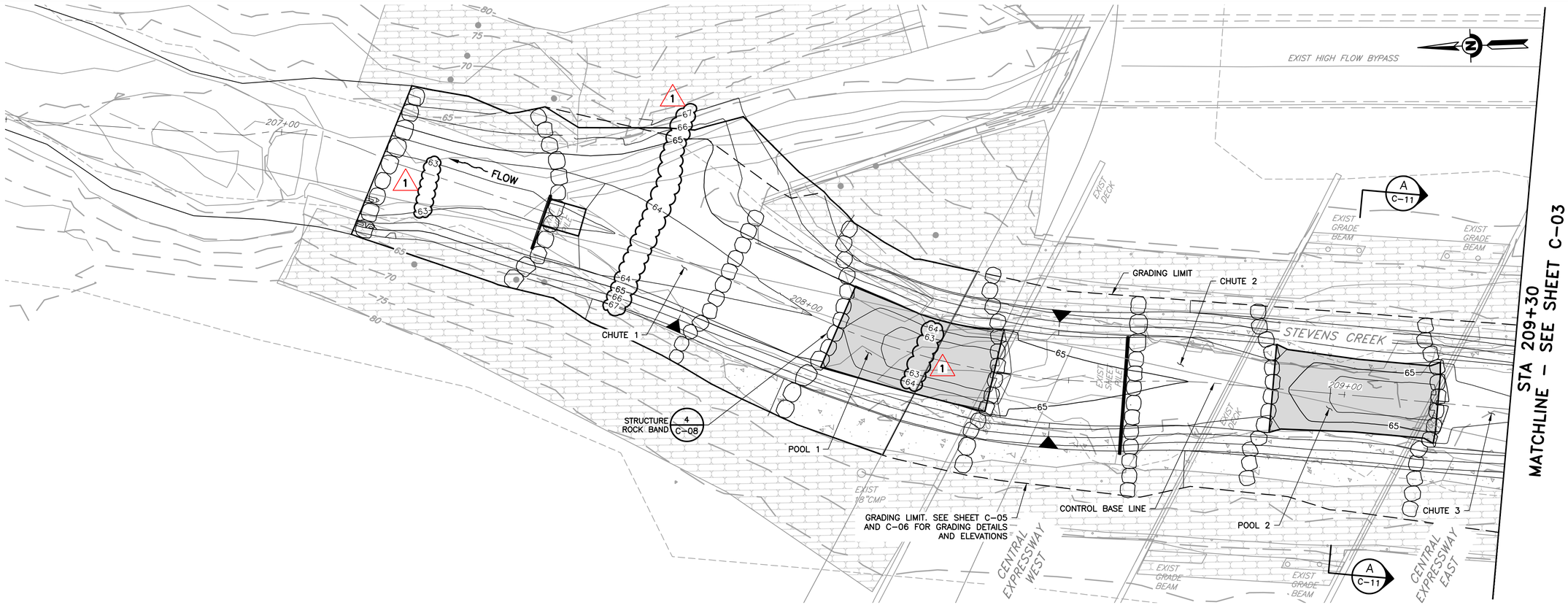
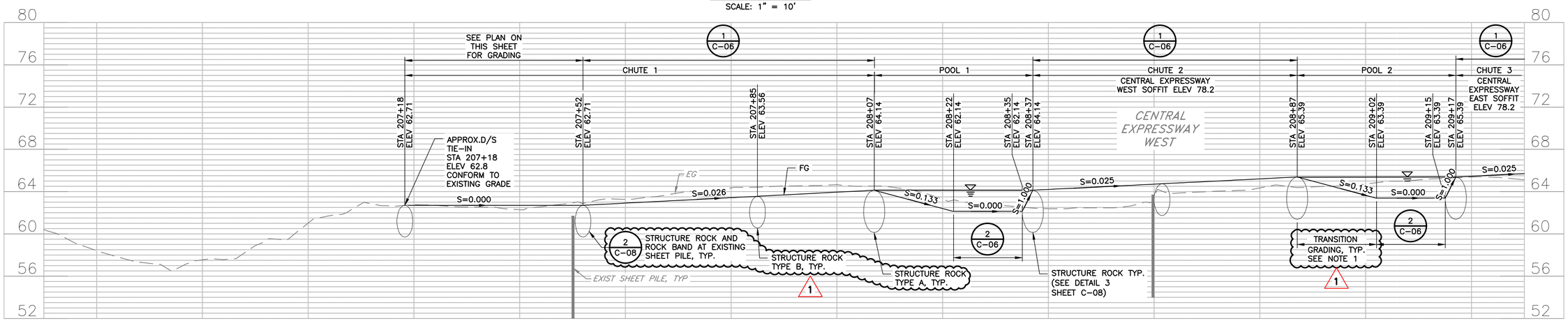


PLAN

SCALE: 1" = 10'



PROFILE

HORIZ: 1" = 10'
VERT: 1" = 5'

NOTE:

1. TRANSITION GRADING BETWEEN ADJACENT TYPICAL SECTIONS WHERE TYPICAL SECTIONS NOT INDICATED ON PROFILE.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM PLACEMENT. SEE SHEET PILE REMOVAL REQUIREMENTS ON SHEET D-05.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DENIS M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

PLAN AND PROFILE STA 206+50 TO STA 209+30

SCALE: AS SHOWN

VERIFY SCALES: 0 1"

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

PROJECT NUMBER: 62084001

SHEET CODE: 1 C-02

SHEET NUMBER: 24

DOCUMENT NUMBER: STV_LP-C-1029-84719

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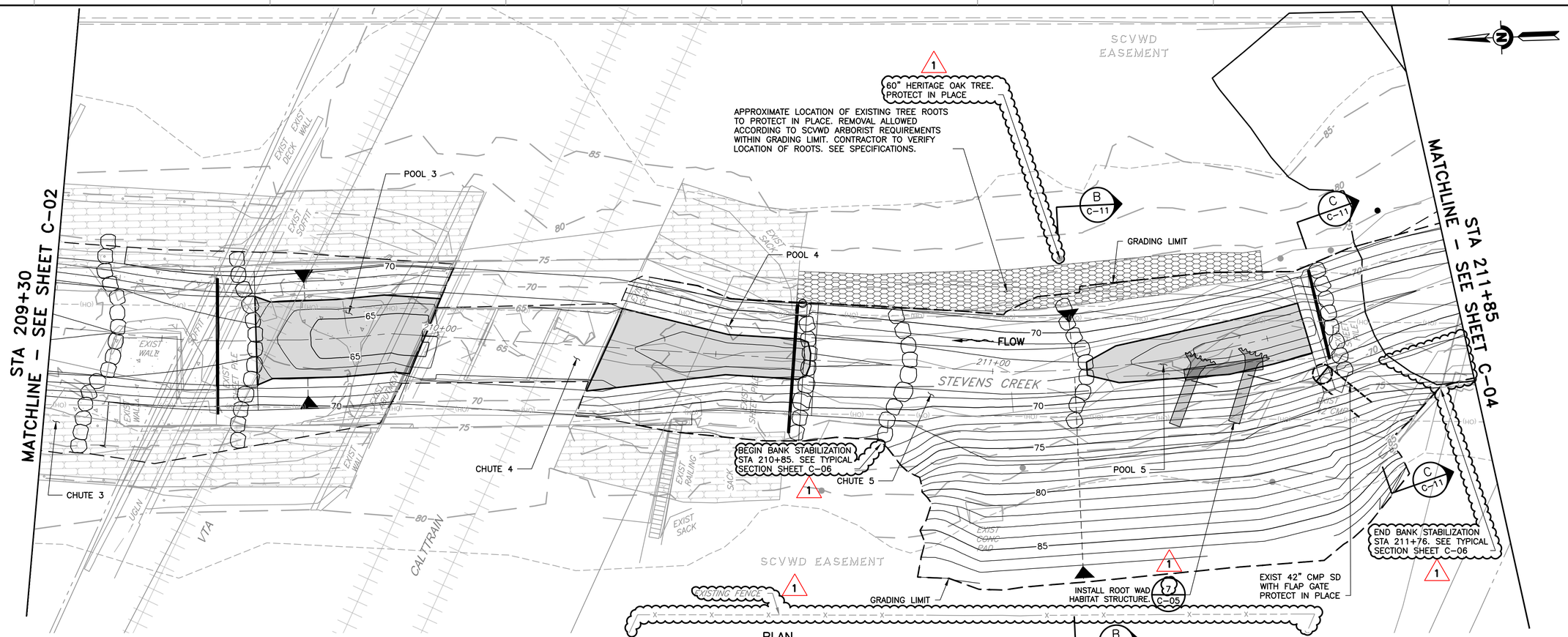
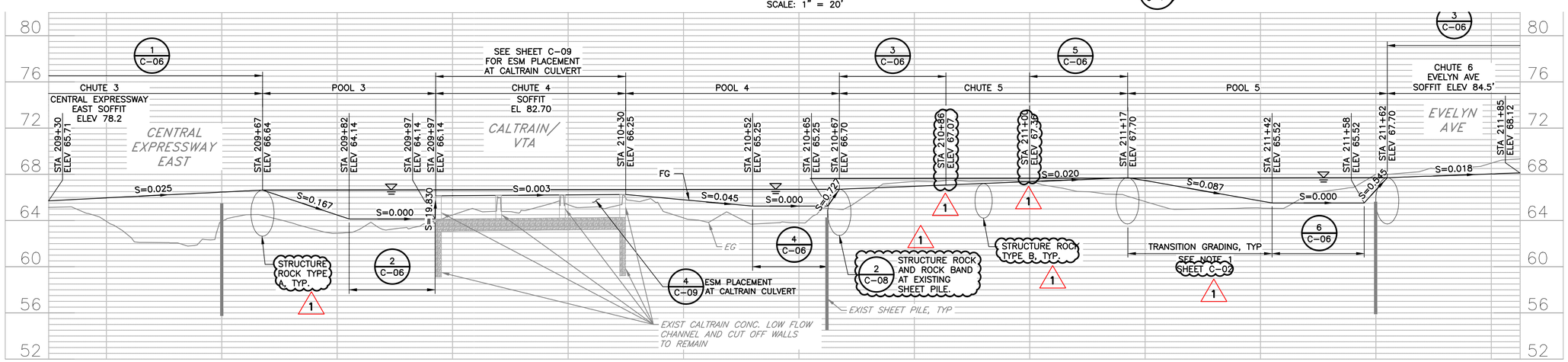


PLAN

SCALE: 1" = 20'



PROFILE

HORIZ: 1" = 10'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM PLACEMENT. SEE SHEET PILE REMOVAL REQUIREMENTS ON SHEET D-05.

DATE
04/07/2025
DESIGN
D. RUTTENBERG
DRAWN
T. TRAN
CHECKED
K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

PLAN AND PROFILE STA 209+30 TO 211+85

SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"

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

PROJECT NUMBER: 62084001

SHEET CODE: C-03

SHEET NUMBER: 25

DOCUMENT NUMBER: STV_LP-C-1029-84720

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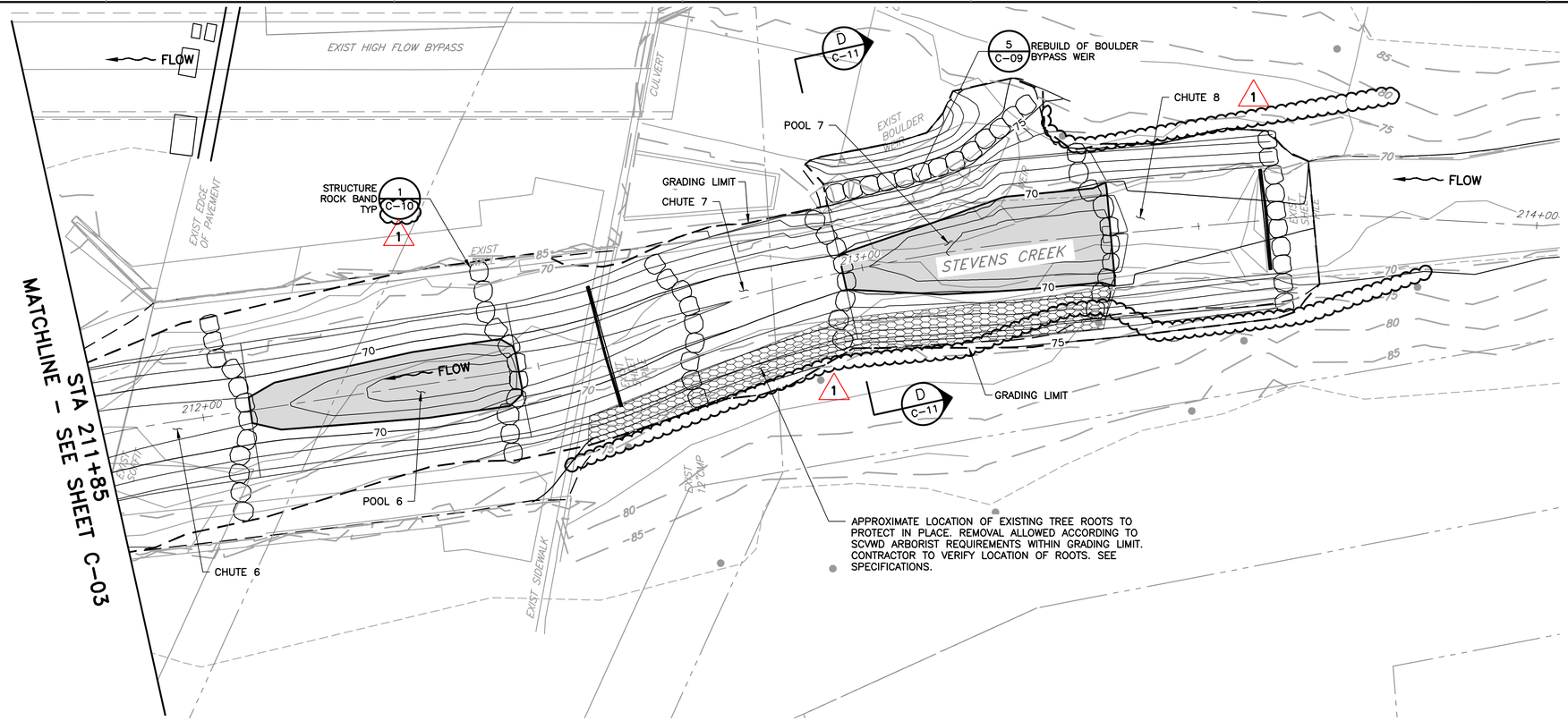
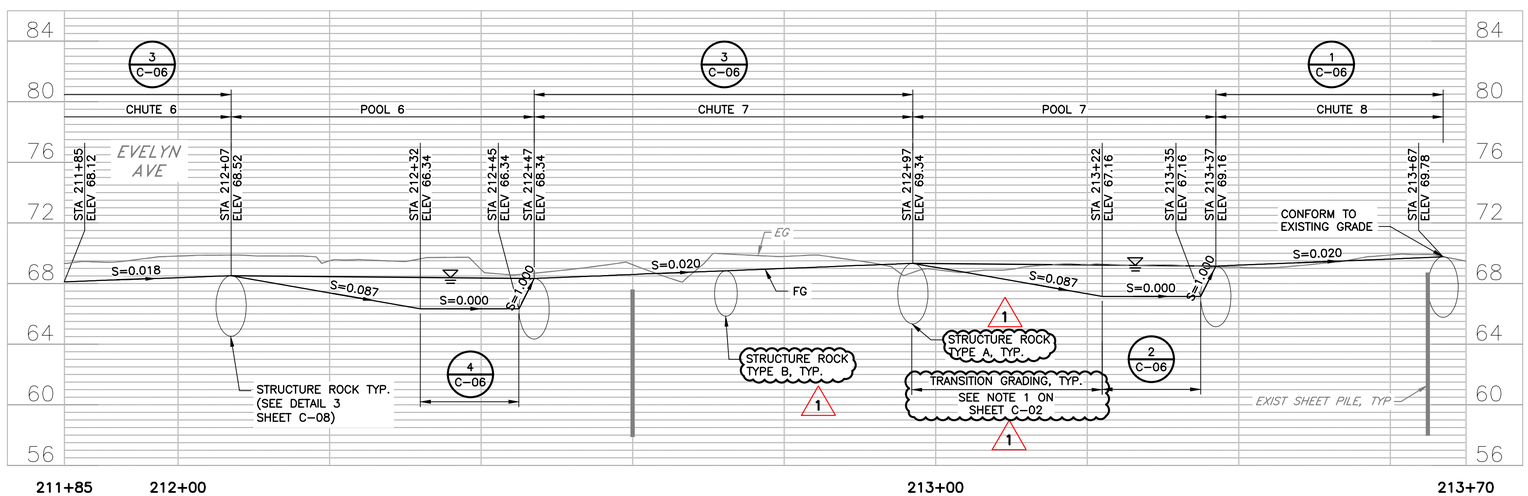


PLAN

SCALE: 1" = 20'



PROFILE

HORIZ: 1" = 10'
VERT: 1" = 5'

USERNAME: TungTran 5/19/2025 10:44 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-04_A2.dwg

DOCUMENT NUMBER: STV_LP-C-1029-84721

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM PLACEMENT. SEE SHEET PILE REMOVAL REQUIREMENTS ON SHEET D-05.

1

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DAVID M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

PLAN AND PROFILE STA 211+85 TO 213+67

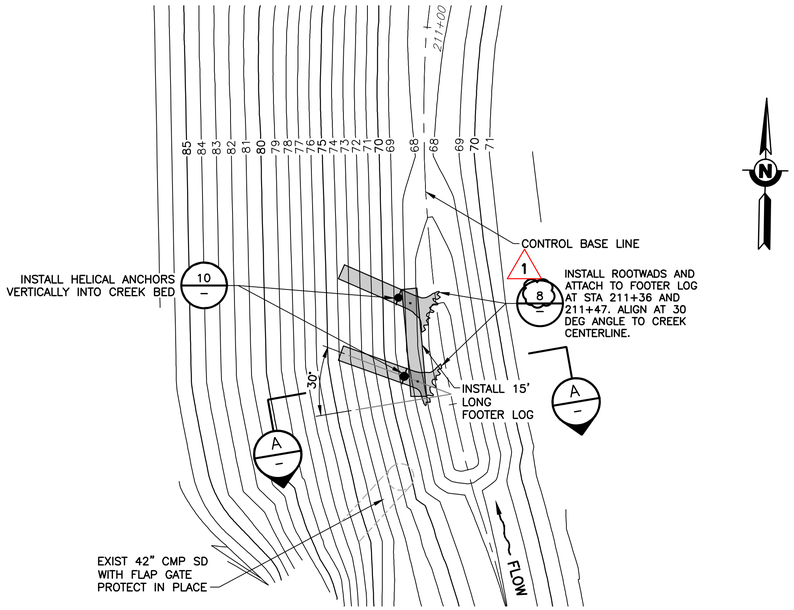
SCALE: AS SHOWN

VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

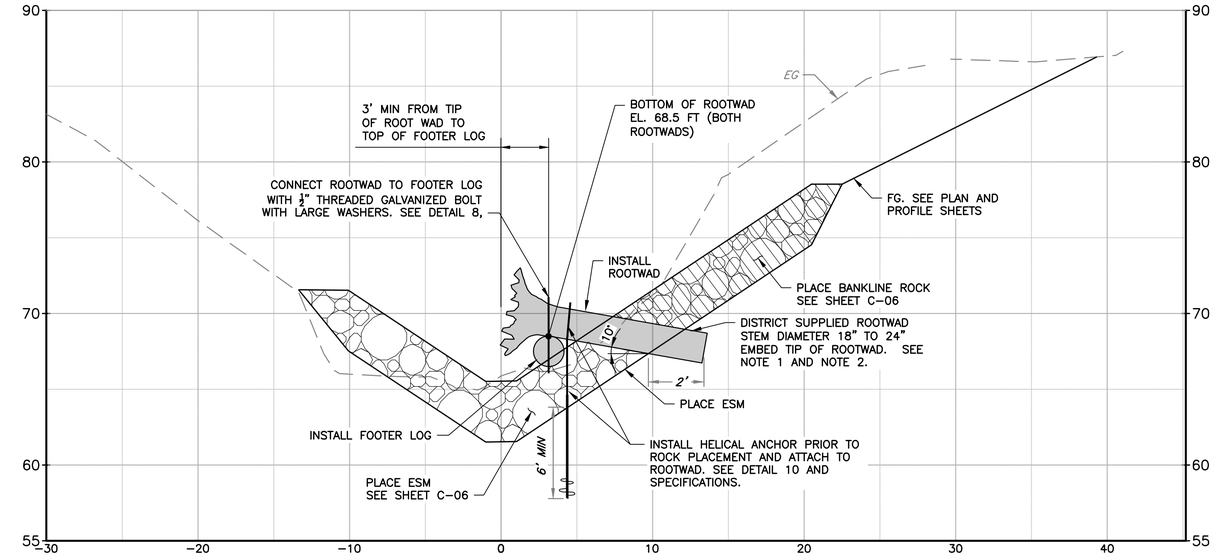
PROJECT NUMBER: 62084001

SHEET CODE: 1
C-04

SHEET NUMBER: 26

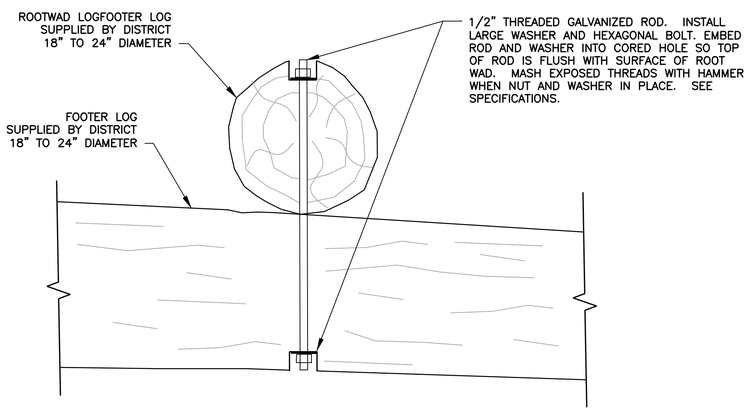


SECTION 7 / C-02 PLAN – ROOTWAD HABITAT STUCTURE
STATION 211+30 TO 211+50
SCALE: 1" = 10'



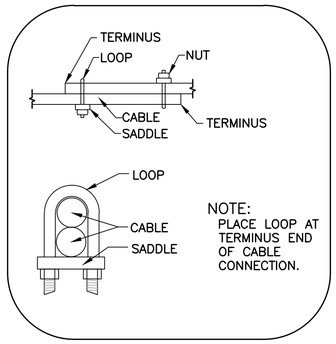
STA 211+45
1 SECTION A / C-05 FOOTER-ROOTWAD CONNECTION
SCALE: 1" = 5'

NOTES:
1. EMBED TIP OF ROOTWAD INTO EXISTING BANK BEYOND SUBGRADE A MINIMUM OF 2 FEET INTO DRILLED AUGURED HOLE OR SMALL EXCAVATED TRENCH. SEE SPECIFICATIONS FOR ROOTWAD DIMENSIONS.
2. INSTALL ROOTWAD STEM SO STEM IS 10° FROM HORIZONTAL AS SHOWN.



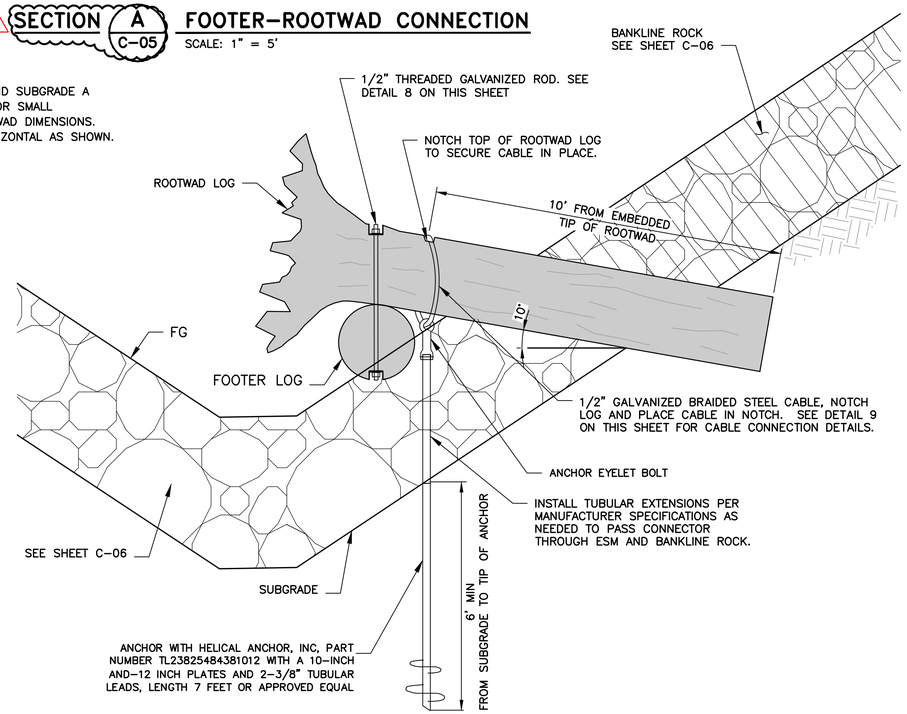
SECTION 8 / – FOOTER-ROOTWAD CONNECTION WITH THREADED ROD
SCALE: NOT TO SCALE

NOTE:
DETAIL IS LOOKING TOWARDS BANK.



NOTES:
1. MAKE CABLE CONNECTIONS IN AREAS TO BE BACKFILLED AND MINIMIZE EXPOSED CABLE.
2. CABLE TO BE 1/2" GALVANIZED BRAIDED STEEL CABLE, OR APPROVED EQUAL,

SECTION 9 / – CABLE CONNECTION
SCALE: NOT TO SCALE



SECTION 10 / – HELICAL ANCHOR
SCALE: NOT TO SCALE

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING 05-15-25

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

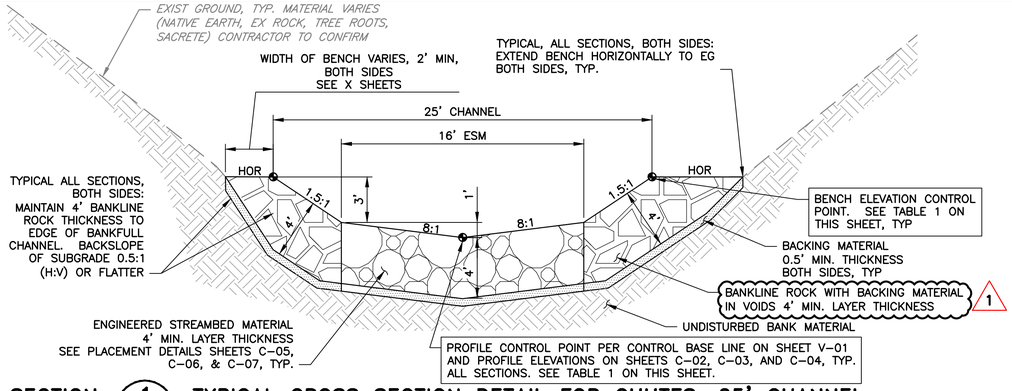
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
INSTREAM HABITAT DETAILS

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 1 C-05
SHEET NUMBER: 27

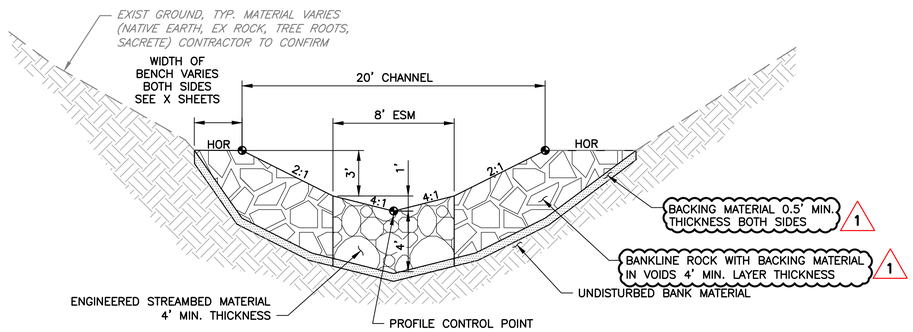
DOCUMENT NUMBER: STV_LP-C-1029-84722
USERNAME: TungTran 5/19/2025 10:44 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-05_A2.dwg



SECTION 1 – TYPICAL CROSS SECTION DETAIL FOR CHUTES, 25' CHANNEL

STATIONS 207+52 TO 208+07 (CHUTE 1), 208+37 TO 208+87 (CHUTE 2), 209+17 TO 209+67 (CHUTE 3), 213+37 TO 213+62 (CHUTE 8)

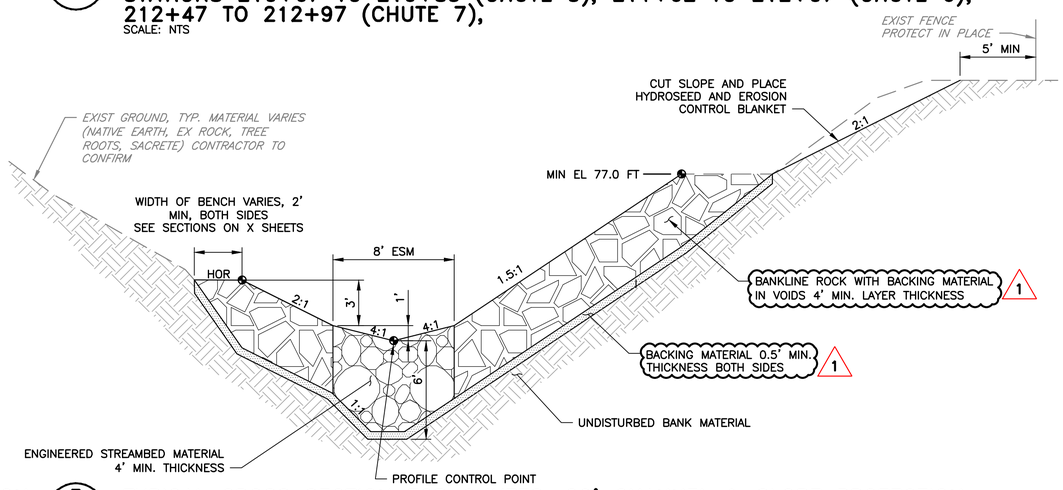
SCALE: NTS



SECTION 3 – TYPICAL CROSS SECTION DETAIL FOR CHUTES, 20' CHANNEL

STATIONS 210+67 TO 210+85 (CHUTE 5), 211+62 TO 212+07 (CHUTE 6), 212+47 TO 212+97 (CHUTE 7),

SCALE: NTS



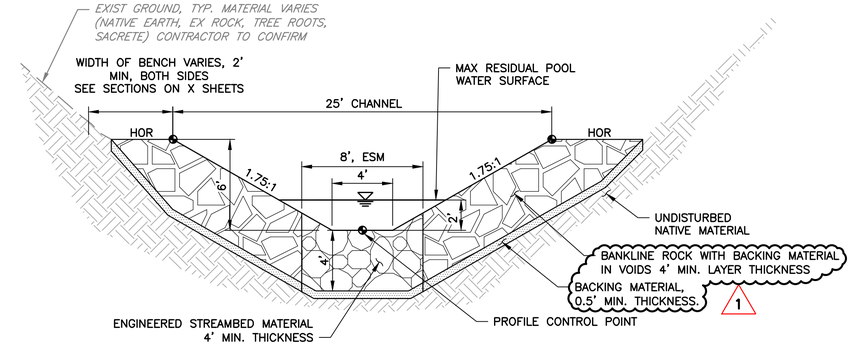
SECTION 5 – TYPICAL CROSS SECTION FOR CHUTES, 20' CHANNEL & SLOPE PROTECTION

STATION 211+00 TO 211+17 (CHUTE 5)

SCALE: NTS

TABLE 1. DESIGN FG CONTROL POINTS

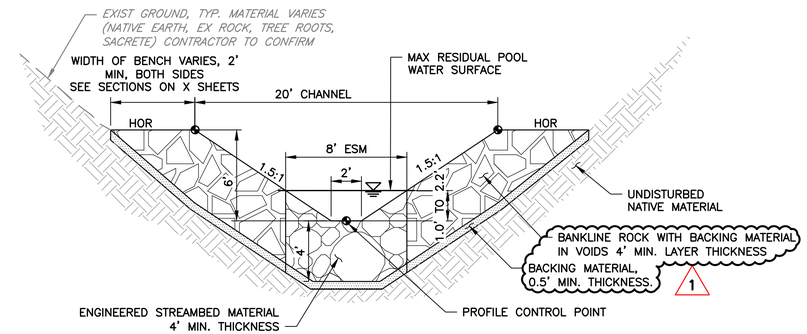
STATION	PROFILE CONTROL POINT ELEVATION, FT	BENCH ELEVATION POINT, FT	FEATURE
207+18	62.71	66.71	CHUTE 1
207+52	62.71	66.71	CHUTE 1
208+07	64.14	68.14	CHUTE 1
208+22	62.14	68.14	POOL 1
208+35	62.14	68.14	POOL 1
208+37	64.14	68.14	CHUTE 2
208+87	65.39	69.39	CHUTE 2
209+02	63.39	69.39	POOL 2
209+15	63.39	69.39	POOL 2
209+17	65.39	69.39	CHUTE 3
209+67	66.64	70.64	CHUTE 3
209+82	64.14	70.64	POOL 3
209+96	64.14	70.64	POOL 3
209+97	66.14	70.64	CHUTE 4
210+30	66.25	70.25	CHUTE 4
210+52	65.25	70.25	POOL 4
210+65	65.25	70.25	POOL 4
210+67	66.70	70.70	CHUTE 5
211+17	67.70	71.70	CHUTE 5
211+42	65.52	71.70	POOL 5
211+58	65.52	71.70	POOL 5
211+62	67.70	71.70	CHUTE 6
212+07	68.52	72.52	CHUTE 6
212+32	66.34	72.52	POOL 6
212+45	66.34	72.52	POOL 6
212+47	68.34	72.34	CHUTE 7
212+97	69.34	73.34	CHUTE 7
213+22	67.19	73.34	POOL 7
213+35	67.19	73.34	POOL 7
213+37	69.16	73.16	CHUTE 8
213+67	69.78	73.78	CHUTE 8



SECTION 2 – TYPICAL CROSS SECTION DETAIL FOR POOLS, 25' CHANNEL

STATIONS 208+22 TO 208+35 (POOL 1), 209+02 TO 209+15 (POOL 2), 209+82 TO 209+97 (POOL 3), 213+22 TO 213+35 (POOL 7)

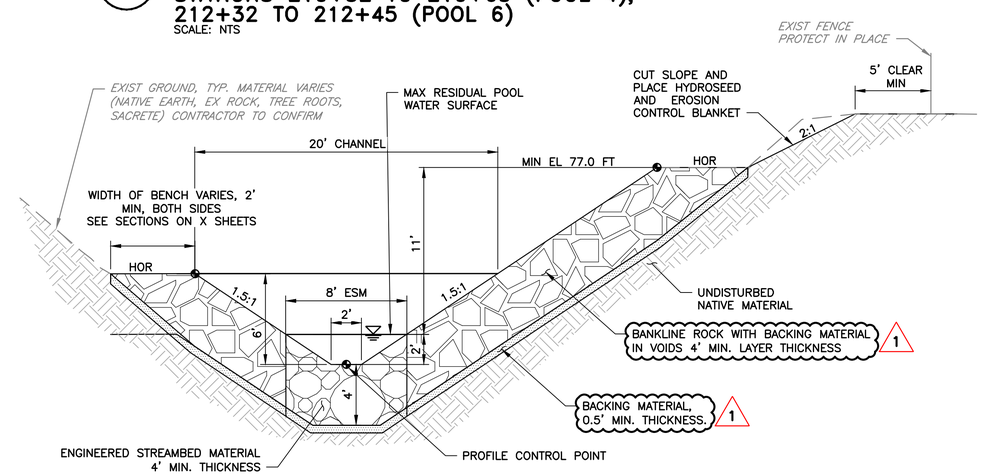
SCALE: NTS



SECTION 4 – TYPICAL CROSS SECTION DETAIL FOR POOLS, 20' CHANNEL

STATIONS 210+52 TO 210+65 (POOL 4), 212+32 TO 212+45 (POOL 6)

SCALE: NTS



SECTION 6 – TYPICAL CROSS SECTION FOR POOLS, 20' CHANNEL, SLOPE PROTECTION

STATION 211+42 TO 211+58 (POOL 5)

SCALE: NTS

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING 05-15-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DIEDRE M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
TYPICAL CROSS SECTION FOR CHUTES AND POOLS

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 1 C-06
SHEET NUMBER: 28

DOCUMENT NUMBER: STV_LP-C-1029-84723

USERNAME: TungTran 5/19/2025 10:44 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-06_A2.dwg

GENERAL ROCK NOTES

1. ROCK PLACEMENT SHALL BE AT THE DISCRETION OF ENGINEER, BUT IS GENERALLY SHOWN.
2. ALL ROCK DIMENSIONS ARE MEASURED ALONG THE INTERMEDIATE AXIS, WHICH IS AN AXIS THAT IS NOT THE MINOR OR MAJOR AXIS. THE MINOR AXIS OF AN INDIVIDUAL ROCK FRAGMENT SHALL NOT BE LESS THAN ONE–THIRD THE MAJOR AXIS.
3. WHERE NOTED THAT ROCK SHALL FOLLOW A "CLASS", REFERENCE IS MADE TO CALTRANS STATE SPECIFICATIONS.

BANKLINE ROCK SPECIFICATIONS

1. GENERAL

1.1. BANKLINE ROCK IS LOCATED ALONG THE CHANNEL MARGINS WHERE SHOWN ON THE DRAWINGS.

1.2. BANKLINE ROCK SHALL ALSO BE USED FOR STRUCTURE ROCK TYPE C WHERE SHOWN ON THE DRAWINGS.

2. PRODUCTS

2.1. BANKLINE ROCKS ARE TO BE RIGID AND RESISTANT TO EROSION. FACES SHALL BE UNEVEN, PROTRUDE INTO THE CHANNEL AND BE ROUGH IN APPEARANCE.

2.2. BANKLINE ROCKS SHALL BE 1 TON CLASS VIII ROCK ACCORDING CALTRANS STATE SPECIFICATIONS WITH BACKING MATERIAL AS A BASE LAYER, AS SHOWN ON THE DRAWINGS.

3. EXECUTION

3.1. INSTALL BACKING MATERIAL AND BANKLINE ROCK WHERE SHOWN ON THE DRAWINGS.

3.2. BUILD BANKLINE ROCK IN TWO FOOT LIFTS.

3.3. PLACE BACKING MATERIAL IN BANKLINE ROCK VOIDS WITH EACH LIFT. TAMP FILLER MATERIAL. FOLLOW BY WATER JETTING. CONTINUE UNTIL VOIDS VISUALLY APPEAR FILLED AND WATER REMAINS FLOWING ON THE SURFACE, OR A MINIMUM OF TWO PASSES WITH BACKING MATERIAL AND WATER JETTING. SEE SPECIFICATIONS.

BACKING MATERIAL SPECIFICATIONS

1. GENERAL

1.1. BACKING MATERIAL IS LOCATED AS A BOTTOM LAYER FOR ESM, STRUCTURE ROCKS TYPE A, STRUCTURE ROCKS TYPE B, STRUCTURE ROCKS TYPE C, AND BANKLINE ROCK AS SHOWN ON THESE DRAWINGS.

1.2. BACKING MATERIAL IS UTILIZED AS FILLER MATERIAL FOR ALL WATER JETTING.

2. PRODUCTS

2.1. BACKING MATERIAL SHALL FOLLOW THE BELOW GRADATION TABLE.

PERCENT FINER	DIAMETER (INCHES)	SIEVE SIZE
100	9	9"
85	6	6"
50	1	1"
15	0.035	NO. 20
5	0.016	NO. 40

3. EXECUTION

3.1. PREPARE SUBGRADE FOR RECEIVING ROCK BACKING MATERIAL. SEE SPECIFICATIONS.

STRUCTURE ROCK SPECIFICATIONS

1. GENERAL

1.1. STRUCTURE ROCK INCLUDES ROCK SPECIFICALLY PLACED IN CHUTES AND POOLS FOR ROCK BANDS AND BOULDER ERRATICS. STRUCTURE ROCKS ARE INTENDED TO PROVIDE THE CHANNEL'S STRUCTURAL FRAMEWORK AS WELL AS ROUGHNESS.

2. PRODUCTS

2.1. STRUCTURE ROCK

2.1.1. STRUCTURE ROCK SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5 AND SHALL BE DURABLE AND OF SUITABLE QUALITY, SOUND AND DENSE, FREE FROM CRACKS, SEAMS AND OTHER DEFECTS THAT INCREASE DETERIORATION FROM WEATHERING. FACES SHALL BE UNEVEN AND ROUGH IN APPEARANCE.

2.1.2. STRUCTURE ROCK APPROXIMATE DIAMETERS, BY GROUP, ARE LISTED IN THE BELOW TABLE.

STRUCTURE ROCKS	RANGE OF DIAMETER (INCHES)
A	40 – 60
B	32 – 52
C	BANKLINE ROCK

2.2. BOULDER ERRATICS

2.2.1. BOULDER ERRATICS SHALL BE STRUCTURE ROCKS TYPE B LISTED IN THE TABLE IN NOTE 2.1.2.

3. EXECUTION

3.1. STRUCTURE ROCK

3.1.1. ROCK SHALL BE INDIVIDUALLY SELECTED AND PLACED ACCORDING TO METHOD A PLACEMENT IN CALTRANS STATE SPECIFICATIONS.

3.1.2. PLACEMENT METHOD A DOES NOT ALLOW PLACEMENT OF ROCK BY DUMPING. SEE THE STATE SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.

3.1.3. PLACE ROCK SUCH THAT THE ROCK RESISTS ROLLING DUE TO GRAVITATIONAL AND HYDRAULIC FORCES.

3.1.4. ROCK MUST EXTEND ABOVE FINISHED GRADE BETWEEN APPROXIMATELY 1/3 OF ITS DIAMETER.

3.1.5. ROCK SHALL BE PLACED SO THAT EACH ROCK IN A SERIES IS WORKING WITH THE OTHER ROCK TO COUNTERACT HYDRAULIC FORCES. THERE SHALL BE A MINIMUM OF THREE (3) POINTS OF CONTACT WITH ADJOINING ROCK.

ENGINEERED STREAMBED MATERIAL (ESM) SPECIFICATIONS

1. GENERAL

1.1. ENGINEERED STREAMBED MATERIAL (ESM) IS ROCK MATERIAL PLACED IN THE CENTER SECTION OF THE CHUTE AND POOL CHANNEL BETWEEN STRUCTURE ROCKS AND BOULDER ERRATICS. SEE SHEETS C–06, C–08, C–10, AND THE SPECIFICATIONS.

2. PRODUCTS

2.1. ESM SHALL HAVE A MINIMUM THICKNESS OF 4 FEET, UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIFICATIONS.

2.2. ESM SHALL FOLLOW THE BELOW GRADATION TABLE.

ROCK TYPE	NOMINAL MEDIAN PARTICLE DIAMETER (INCHES)	VOLUME PERCENT OF ESM MIX
CLASS IX	36	25%
CLASS V	18	25%
CLASS III	12	25%
AGGREGATE BASE (1–1/2 INCH MAXIMUM) *	N/A	25%

* AGGREGATE BASE SHALL PROVIDE GRADATION AND MATERIAL FOR CLASS 2 AGGREGATE BASE PER STATE SPECIFICATIONS, SECTION 26, BUT WITH NATURAL ROUGH–SURFACED GRAVEL AND ROUNDED MATERIAL ONLY, NOT BROKEN STONE, CRUSHED GRAVEL, OR PROCESSED RECLAIMED CONCRETE. SEE SECTION 26–1.02 OF THE STATE SPECIFICATIONS.

3. EXECUTION

3.1. ESM MUST BE PLACED IN 2 FOOT LIFTS. SEE DETAIL 1 SHEET C–08.

3.2. ESM SHALL BE PLACED USING METHOD B PLACEMENT PER CALTRANS STATE SPECIFICATIONS. METHOD B PLACEMENT ALLOWS FOR PLACEMENT OF ROCK MATERIALS BY DUMPING AND SPREADING OF LAYERS WITH SUITABLE EQUIPMENT.

3.3. ESM SHALL SURROUND AND FILL VOIDS AROUND STRUCTURE ROCKS FOR ROCK BANDS AND BOULDER ERRATICS.

3.4. EACH LIFT OF ESM SHALL INCLUDE STRUCTURE ROCK FROM ALL ROCK TYPES AS SHOWN IN THE TABLE IN NOTE 2.2. ROCK WILL PROTRUDE MORE THAN 1/3 OF ITS DIAMETER ABOVE FINISH GRADE.

3.5. ESM SHALL BE PLACED IN 2 FOOT THICK LAYERS WITH VOID FILLING AND WATER JETTING OF BACKING MATERIAL SEE DETAIL 1 ON SHEET C–08 AND THE SPECIFICATIONS.

3.6. THE FINAL LIFT SHALL BE ROUGH IN APPEARANCE WITH CLASS III, V, AND IX ROCK PROTRUDING NO MORE THAN 1/3 OF THE DIAMETER OF INDIVIDUAL ROCKS ABOVE FINISHED GRADE.

1

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING
05–15–25

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

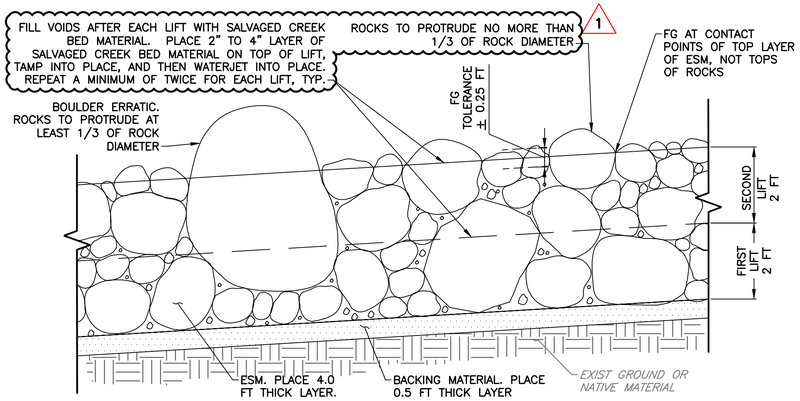
PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
BANKLINE ROCK, ESM AND STRUCTURE ROCK REQUIREMENTS

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: C–07
SHEET NUMBER: 29

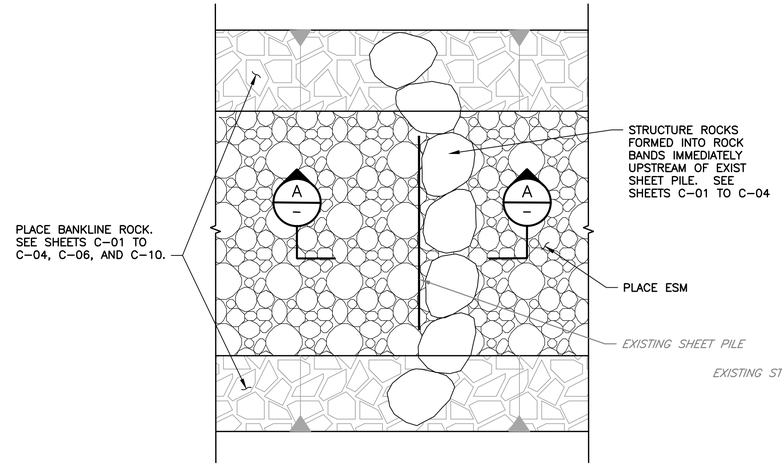
DOCUMENT NUMBER: STV_LP–C–1029–84724

USERNAME: TungTran 5/19/2025 10:44 AM
FILENAME: K:\Active Projects\MP–62084001\Evelyn Fish Passage_SHEETS\C–07_A2.dwg



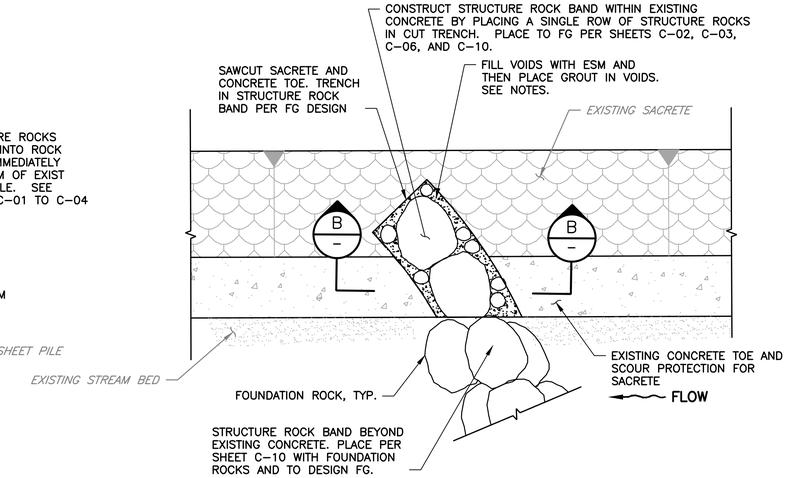
DETAIL 1 – ENGINEERED STREAMBED MATERIAL (ESM) PLACEMENT

SCALE: NTS



DETAIL 2 – ROCK BAND – PLAN AT EXISTING SHEET PILE

SCALE: NTS

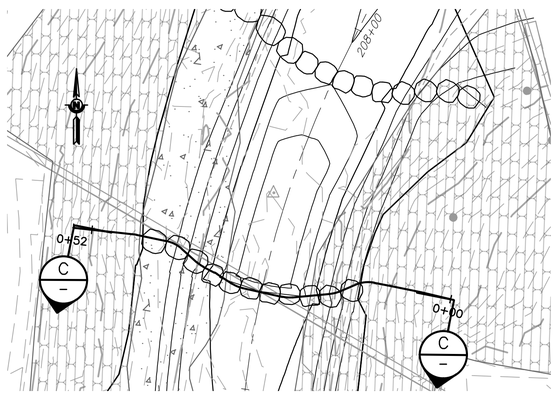


DETAIL 3 – ROCK BAND – PLAN AT EXISTING CONCRETE TOE AND SACRETE

SCALE: NTS

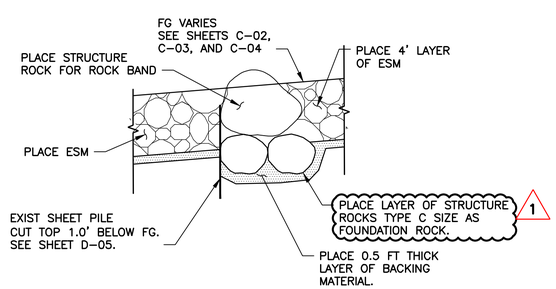
DETAIL 3 NOTES:

1. DETAIL 3 APPLIES TO CUTTING INTO POURED CONCRETE AT TOE OF SACRETE (SCOUR PROTECTION FOR SACRETE) AND TO BE USED ONLY AS APPROVED BY ENGINEER.
2. NO CUTTING OR DEMOLITION OF EXISTING CONCRETE ALLOWED FOR EXISTING CONCRETE WALLS OR STRUCTURAL FEATURES FOR BRIDGES OR SLOPE PROTECTION.
3. TRENCH WIDTH IS STRUCTURE ROCK WIDTH (A OR B SIZE) PLUS 6" ON BOTH SIDES CLEAR FOR GROUT PLACEMENT. (1)
4. PLACE GROUT TO LEVEL OF REMOVED CONCRETE NO HIGHER. SEE SPECIFICATIONS FOR GROUT.
5. ESM AND BANKLINE ROCK PLACEMENT NOT SHOWN IN PLAN VIEW.



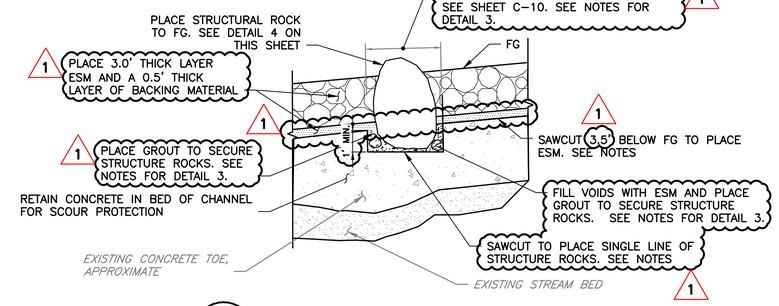
DETAIL 4 (C-02) – ROCK BAND – TYPICAL PLAN STRUCTURE ROCK PLACEMENT AT EX CONCRETE

SCALE: 1"=10'



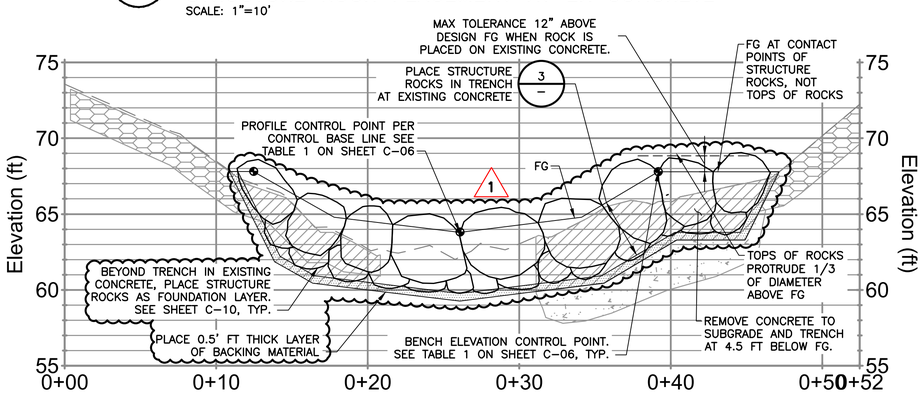
SECTION A – PROFILE THROUGH ROCK BAND AND EXIST SHEET PILE

SCALE: NTS



SECTION B – ROCK BAND – SECTION AT EXISTING CONCRETE TOE AND SACRETE

SCALE: NTS



SECTION C – TYPICAL PROFILE THROUGH ROCK BAND STRUCTURE ROCK PLACEMENT AT EX CONCRETE

SCALE: 1"=5'

GENERAL NOTES FOR ESM, BANKLINE ROCK, AND STRUCTURE ROCK BANDS:

1. TOLERANCE FOR FG WHERE ESM, BANKLINE ROCK, AND STRUCTURE ROCKS ARE PLACED OVER EXISTING CONCRETE IS −3" TO +12" TO DESIGN FG. SEE DETAIL 1 ON THIS SHEET FOR DEFINITION OF FG.
2. OTHERWISE TOLERANCE IS ±3" TO FG.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING 05-15-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER CHRIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

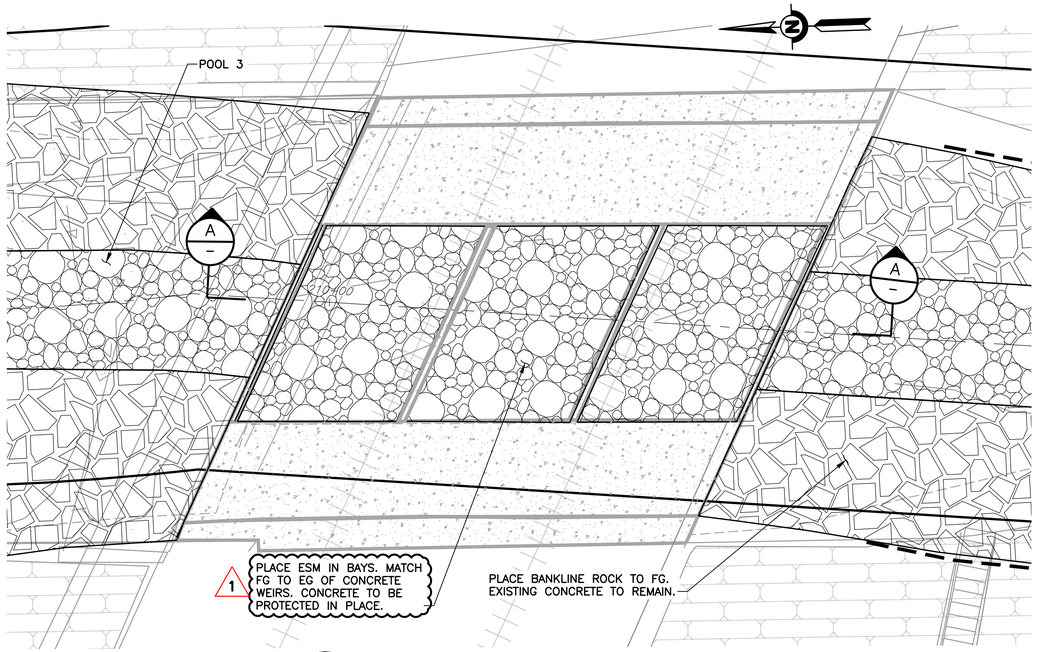
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
ESM PLACEMENT DETAILS SHEET 1

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

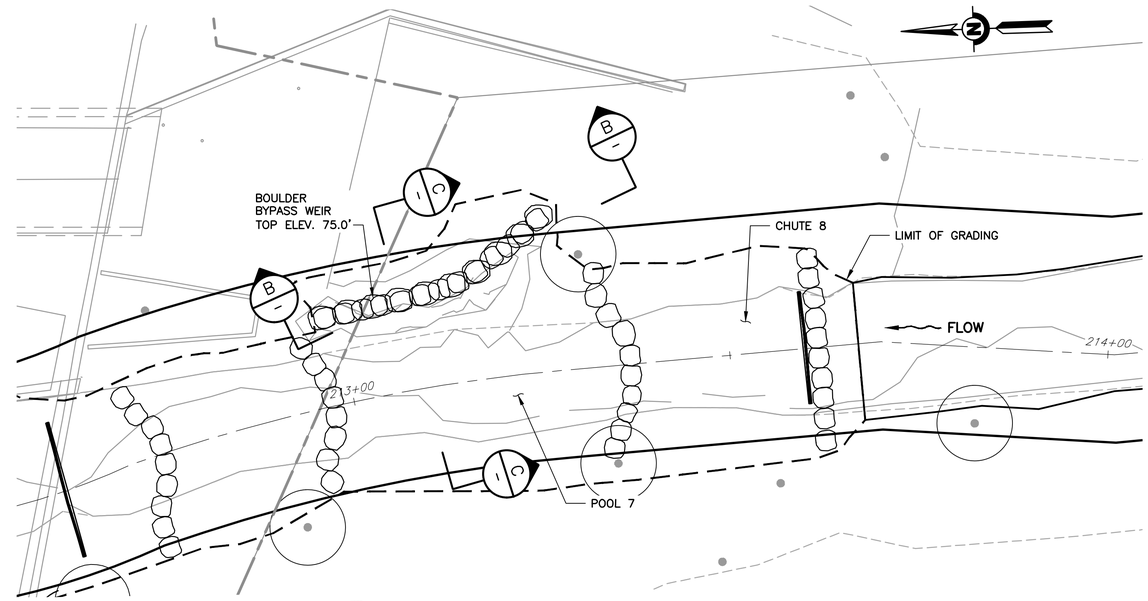
PROJECT NUMBER 62084001
SHEET CODE: C-08 (1)
SHEET NUMBER: 30

DOCUMENT NUMBER: STV_LP-C-1029-84725
USERNAME: TungTran 5/19/2025 10:45 AM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-08_A2.dwg



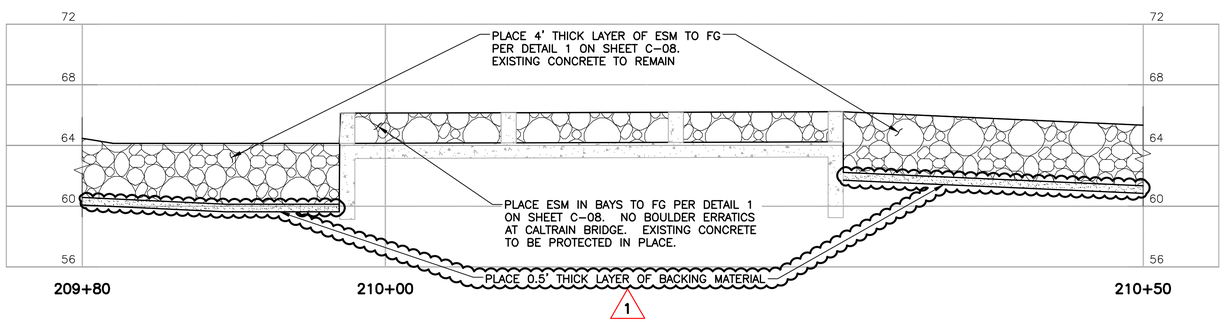
DETAIL 4 (C-02) PLAN DETAIL AT CALTRAIN BRIDGE (ESM) PLACEMENT

SCALE: 1" = 5'



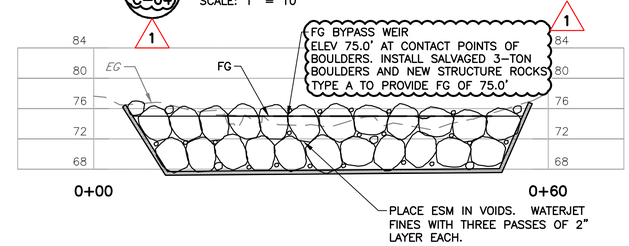
DETAIL 5 (C-04) PLAN DETAIL AT BOULDER BYPASS WEIR

SCALE: 1" = 10'



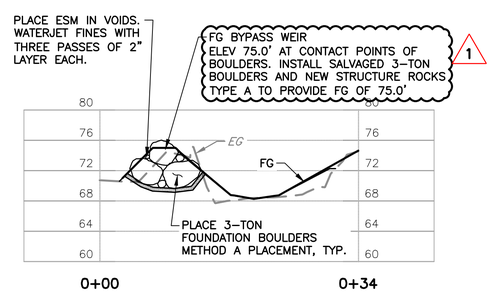
SECTION A (–) PROFILE THROUGH CALTRAIN BRIDGE

SCALE: 1" = 5'



SECTION B (–) PROFILE THROUGH BOULDER BYPASS WEIR

SCALE: 1" = 10'



SECTION C (–) CROSS SECTION THROUGH BOULDER BYPASS WEIR

SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR

ADDENDA DRAWING
05-15-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM. THE PORTION OF EACH EXIST SHEET PILE REMOVED IS TBD DURING CONSTRCUTION BASED ON SITE CONDITIONS.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

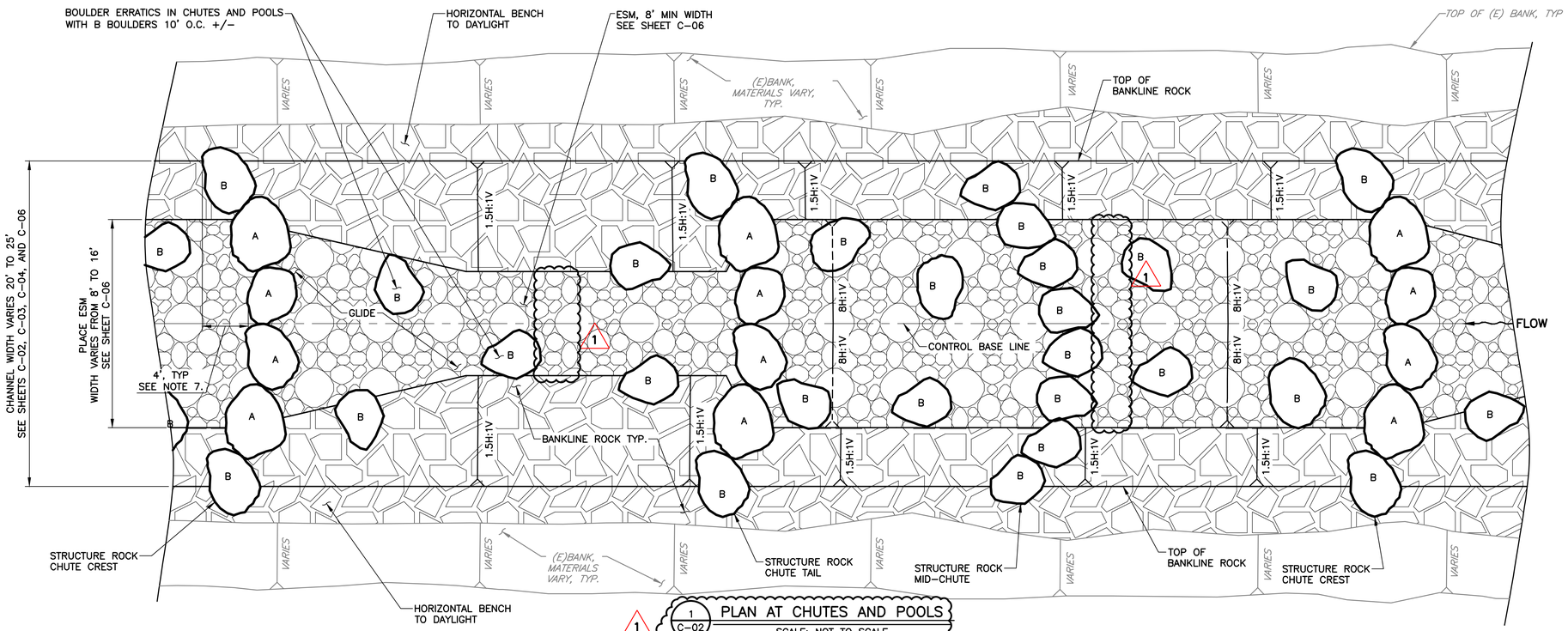
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

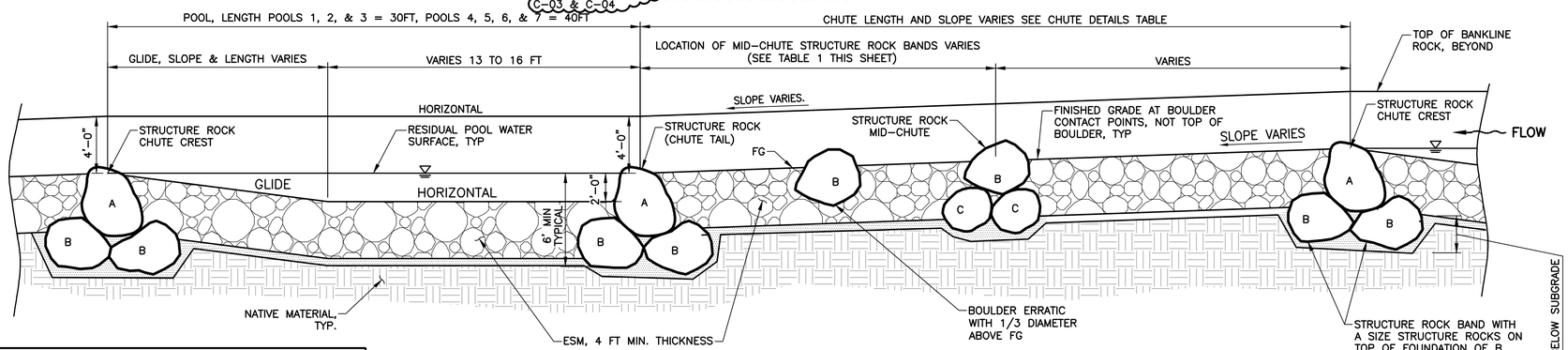
PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
ESM PLACEMENT DETAILS SHEET 2

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: C-09 (1)
SHEET NUMBER: 31



1 C-02 PLAN AT CHUTES AND POOLS
SCALE: NOT TO SCALE
C-03 & C-04



PROFILE
SCALE: NOT TO SCALE

LEGEND

- ENGINEERED STREAMBED MATERIAL
- BANKINE ROCK (ALSO USED AS STRUCTURE ROCK TYPE C) 1
- BACKING MATERIAL
- NATIVE MATERIAL
- A B C STRUCTURE ROCK
- B BOULDER ERRATIC 1

TABLE 1. CHUTES – STRUCTURE ROCK BAND LOCATIONS

CHUTE	LENGTH (FT)	SLOPE (%)	CHUTE TAIL STA	MID-CHUTE	CHUTE CREST STA
1	55	2.6	207+18	207+52 **	208+07
1				207+79	
2	50	2.5	208+37	208+62 **	208+87
3	50	2.5	209+17	209+42	209+67
4 (CALTRAIN)	33	0.3	209+97 *	NONE	210+30 *
5	50	2.0	210+67 **	210+93	211+17
6	45	1.8	211+62 **	NONE	212+07
7	50	2.0	212+47	212+74	212+97
8	25	2.0	213+37	NONE	213+62 **

NOTES

* CONCRETE WEIRS TO REMAIN UNDER CALTRAIN BRIDGE. NO STRUCTURAL ROCKS TO BE PLACED.
** STRUCTURE ROCK BANDS PLACED UPSTREAM OF EXISTING SHEET PILES. SEE SHEET D-05 FOR SHEET PILE CUTTING AND DETAIL 2 ON SHEET C-08 FOR PLACEMENT OF STRUCTURE ROCKS AT EXISTING SHEET PILES.

CHUTE NOTES:

1. CONSTRUCTION SEQUENCE: PLACE STRUCTURAL ROCKS FIRST AND BOULDER ERRATICS TO FINISHED GRADE, THEN PLACE ESM AROUND STRUCTURAL ROCKS TO FINISHED GRADE.
2. 1 CHUTE 4 WILL NOT HAVE STRUCTURE ROCK BANDS. INSTALL ESM BETWEEN (E) CALTRAIN CONC. LOW FLOW CHANNEL CUT OFF WALLS, ALL CUT OFF WALLS AND CONCRETE TO BE PROTECTED IN PLACE. SEE ESM DETAILS ON SHEET C-09.
3. BANK PROTECTION AND ROOT WAD PLACEMENT NOT SHOWN.
4. EXISTING SACRETE AND CONCRETE SCOUR PROTECTION IN CHANNEL NOT SHOWN. CONTRACTOR TO VERIFY LOCATION AND LEAVE IN PLACE, EXCEPT FOR PLACEMENT OF ROCK BANDS. SEE SHEET DETAIL 3 ON SHEET C-08 FOR PLACEMENT OF ROCK BANDS IN EXISTING CONCRETE.
5. PLACEMENT OF STRUCTURAL ROCKS IN SACRETE NOT SHOWN. SEE DETAIL 3 ON SHEET C-08. ESM LAYER THICKNESS IS 3 FT MIN WITH A 0.5 FT LAYER OF BACKING MATERIAL WHERE PLACED ON EXISTING CONCRETE.
6. SLOPE PROTECTION AND ROOTWAD INSTALLATION NOT SHOWN.
7. FOR ALL STRUCTURE ROCK BANDS NOT LOCATED NEXT TO EXISTING SHEET PILES, FORM CONTINUOUS ARC FROM CENTERLINE OF CHANNEL WITH A 4' OFFSET AT THE ENDS OF THE ARC FROM THE CENTERLINE, AS SHOWN. SEE SHEETS C-02, C-03, AND C-04 FOR WHICH STRUCTURE ROCK BANDS ARE FORMED INTO ARCS OR ALIGNED AS STRAIGHT ROCK BANDS NEXT TO EXISTING SHEET PILES.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING
05-15-25

DOCUMENT NUMBER: STV_LP_C-1029-84727

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

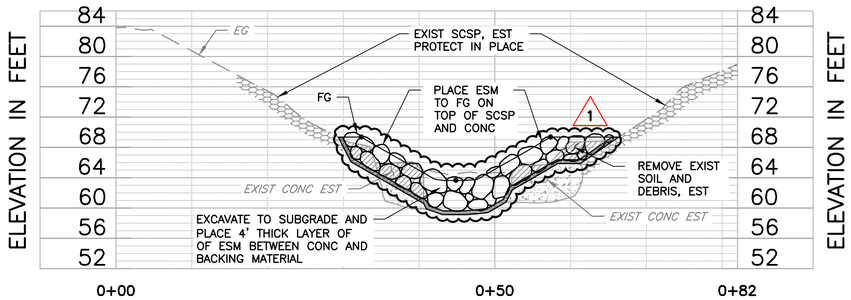
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
1 CHUTES AND POOLS PLAN AND PROFILE

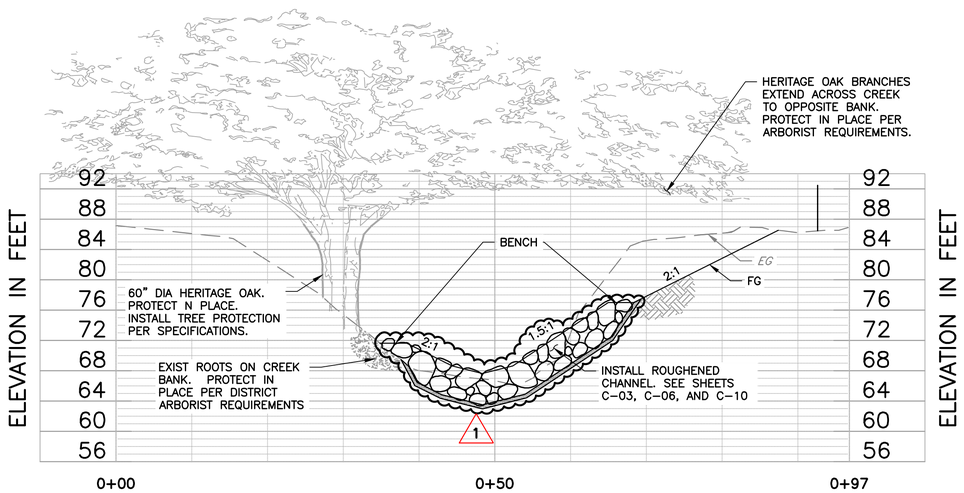
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001
SHEET CODE: 1 C-10
SHEET NUMBER: 32



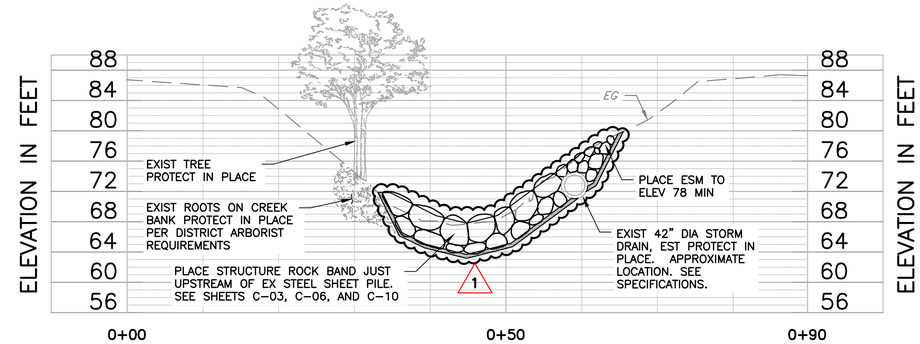
SECTION A (D-02) CROSS SECTION AT CENTRAL EXPRESSWAY STATION 209+00

SCALE: NTS



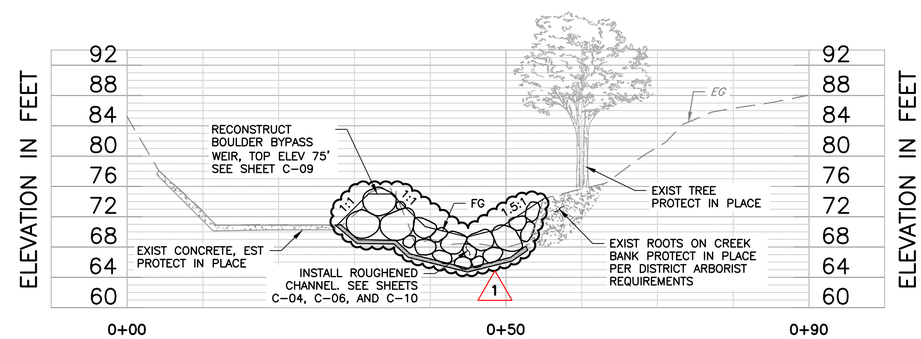
SECTION B (D-02) CROSS SECTION AT HERITAGE OAK STATION 211+13

SCALE: NTS



SECTION C (D-03) CROSS SECTION JUST UPSTREAM OF SHEET PILE AT STORM DRAIN, STATION 211+62

SCALE: NTS



SECTION D (D-03) CROSS SECTION UPSTREAM OF EVELYN AVE AT BYPASS WEIR AND EXISTING TREE, STATION 212+97

SCALE: NTS

NOTES:

1. SEE SPECIFICATIONS FOR PROTECTION MEASURES AT EXISTING TREES.
2. CONCRETE REMOVAL ONLY AT STRUCTURE BANDS AS SHOWN ON SHEET D-02.

DOCUMENT NUMBER: STV_LP-C-1029-84728

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
1	ADDENDUM #2	5/25	DR	

ADDENDA DRAWING
05-15-25

DATE	ENGINEERING CERTIFICATION
04/07/2025	SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
DESIGN D. RUTTENBERG	
DRAWN T. TRAN	
CHECKED K. NEUMAN	ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

TYPICAL SECTIONS AT CONSTRICTIONS AND OBSTRUCTIONS

SCALE	PROJECT NUMBER
AS SHOWN	62084001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: 1 C-11 SHEET NUMBER: 33

SANTA CLARA VALLEY WATER DISTRICT
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3088
www.valleywater.org
scvwdplanroom@valleywater.org

Santa Clara Valley Water District
Notification of this Addendum is transmitted via PlanetBids Vendor Portal to all current plan holders.
This Addendum is posted on the Valley Water PlanetBids Public Site for Bids Vendor Portal at
https://pbsystem.planetbids.com/portal/48397/portal-home

May 29, 2025

ADDENDUM NO. 3
TO CONTRACT DOCUMENTS FOR THE
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
Project No. 62084001 Contract No. C0708
Invitation No. VW0565

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

PLANETBIDS LINE ITEMS

1. **REPLACE** PLANETBIDS Section A – Base Bid, Item Code 3 Clearing and Grubbing, Unit of Measurement (UOM) with:

   UOM: ~~**acres**~~ **Lump Sum**

SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

Section 14. Special Requirements

1. **ADD** bullet j. in paragraph C. Builder's Risk (Course of Construction) Insurance, subparagraph 2. of Article 14.16.04. Required Coverages with:

   "j. Builder's Risk Insurance coverage shall be provided through the completion of Milestones #1, #2a, and #2b."

TECHINCAL PROVISIONS

Section 23. Preparatory Work

1. **REPLACE** Article 23.02.04. Measurement, paragraph A. with:

   "Clearing and Grubbing will ~~be measure per ACRE of area~~ **not be measured**."

2. **REPLACE** Article 23.02.05. Payment, paragraph A. with:

"Full compensation for furnishing all work required to clear and grub as shown on the Drawings and as specified by these Specifications will be included in the ~~unit price bid per Acre (AC)~~ **lump sum price bid** for CLEARING AND GRUBBING—Bid Item No. 3."

3. **ADD** Attachment 1: Article 23.07 Removal and Replacement of 42 Inch Storm Drain and Flap Gate to Section 23. Preparatory Work.

Section 27. Special Structures

1. **REPLACE** paragraphs 1. and 2. in Article 27.02.02.H. Water Jetting with:

"1. Tamp a 3 to 4 inch later of ~~fine material~~ **Salvaged Creek Bed Material** on surface of two foot thick lift

2. Make a minimum of two passes to water jet **Salvaged Creek Bed** ~~Backing~~ Material into subsurface voids in the ESM. Continue until the finished grade is achieved as shown on the Drawings."

2. **REPLACE** paragraphs A., and B. in Article 27.02.06.02. Materials with:

"A. **Rock used in** ESM will consist of clean, hard, and crushed durable ~~gravel or~~ rock from a quarry."

"B. Rock for ESM will meet the following material requirements."

ESM Gradation	
Sieve	**Percentage Passing**
54 inch	**90 – 100**
36 inch	**75 – 90**
15 inch	**40 – 60**
¾ inch	**10 – 20**
No. 10	**5 – 10**
No. 200	**0 – 5**

3. **REPLACE** paragraph C. in Article 27.02.06.02. Materials with:

"~~ESM must comply with the following requirements for the Class III, V, and IX rock:~~ **Rock and gravel that is 15 inches or less in sieve size will consist of clean, hard, and rounded river rock from a quarry**."

4. **DELETE** paragraph D. in Article 27.02.06.02. Materials.

5. **REPLACE** Article 28.02.05. Payment, paragraph A from Addendum No. 2 with:

   "Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work required in paragraph A. Scope of Work for mobilization and demobilization, as shown on the Drawings, as specified in these Specifications, and as directed by the Engineer, will be included in the time and materials ~~cost lump sum~~ price bid for CREEK MAINTENANCE MOBILIZATION AND DEMOBILIZATION--Bid Item No. 16. For bidding, this item has an allowance of $50,000."

GENERAL QUESTIONS AND RESPONSES

QUESTION 1: (Date Received – May 7, 2025)

Which Milestones is Builder's Risk insurance required?

RESPONSE 1:

See Item No.1 Section 14 Special Requirements of this Addendum No. 3.

QUESTION 2: (Date Received – May 16, 2025)

Notes 2.1 and 2.3 of the ESM Specifications shown on Sheet C-07 conflict with each other. Note 2.1 States that all material finer than 6" Diameter shall be rounded Alluvium (River Rock). The table that is included in Note 2.3 states that 25% of the ESM Mix is to be Class 2 Aggregate Base (1-1/2 Inch Maximum). Caltrans defines Class 2 Base as a well graded mixture of crushed angular rock with a maximum aggregate size of 3/4 of an inch. Class 2 aggregate base is not Alluvium, nor does it have a Max Aggregate size of 1-1/2". Can you please clarify the shapes and Gradations of the ESM?

RESPONSE 2:

See Item No. 2 Section 27. Special Structures of this Addendum No. 3.

QUESTION 3: (Date Received – May 21, 2025)

Regarding Builders Risk coverage required in section 14.16.04 C, (i) please confirm if perils of earthquake and flood will be required; and (ii) please confirm the minimum coverage term (Milestone) acceptable to Valley Water Item (a) of section 14.16.04 F covering Professional/Error and Omissions insurance limits any deductible or SIR to not more than $100,000. Contractors Professional Liability policies commonly contain deductibles in excess of the requirement. Will Valley Water amend wording in item (a) to allow deductibles or an SIR of not more than $250,000 to better reflect insurance industry practice?

RESPONSE 3:

The required insurance coverages are provided in Article 14.16.04. Required Coverages are confirmed. For Builder's Risk Insurance, see Item No.1 Section 14 Special Requirements of this Addendum No. 3. All other insurance coverages are for the duration of the contract.

QUESTION 4: (Date Received – May 22, 2025)

Can builder's risk insurance be waived for this project? If not, what is being insured with the builder's risk insurance policy?

RESPONSE 4:

Builder's Risk Insurance is a requirement of the contract. See Article 14.16.04. Required Coverages of the Special Provisions for more information about Builder's Risk Insurance.

QUESTION 5: (Date Received – May 22, 2025)

In regard to #17 Bidder's Security in the Notice to Bidder's, we do not use Surety 2000 or Tinubu for electronic bid bonds as our company does not bid many projects that would require the us to have a Surety 2000 account. It is not feasible for our organization to an annual service when we would not use it that much. Will the district consider allowing contractors to send a paper bond to your office to have on file PRIOR to the bid opening?

RESPONSE 5:

Surety2000 and Tinubu are two systems available for delivering the Bidder's Bond to Valley Water electronically. Bidders have the option to use a surety company of their choice to obtain a Bidder's Bond. However, the submission must be made electronically through either the Surety2000 or Tinubu system. The paper version of the Bidder's Bond will not be accepted. For more information on how to submit the Bidder's Bond, see Section 17 of the Notice to Bidders.

QUESTION 6: (Date Received – May 25, 2025)

Regarding Builders Risk coverage required in section 14.16.04 C, (i) please confirm if perils of earthquake and flood will be required; and (ii) please confirm the minimum coverage term (Milestone) acceptable to Valley Water Item (a) of section 14.16.04 F covering Professional/Error and Omissions insurance limits any deductible or SIR to not more than $100,000. Contractors Professional Liability policies commonly contain deductibles in excess of the requirement. Will Valley Water amend wording in item (a) to allow deductibles or an SIR of not more than $250,000 to better reflect insurance industry practice?

RESPONSE 6:

See Response No.3 of this Addendum No.3.

CONSTRUCTION MAP AND PLAN

1. **REPLACE** the following revised plan sheets with ATTACHMENT NO. 1 for Sheets (9 total):

   Sheets G-01, G-02, G-07, D-03, C-03, C-05, C-07, C-09, and C-11

THIS ADDENDUM NO. 3, WHICH CONTAINS **FIVE (5)** PAGES AND **TWO** ATTACHMENT(S), IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:
Bhavani Yerrapotu
468D6D59FDEC458...

Date: 5/30/2025

Bhavani Yerrapotu, P.E.
Deputy Operating Officer
Watersheds Design and Construction Division

Enclosures:

Attachment 1: Article 23.07 Removal and Replacement of 42 Inch Storm Drain and Flap Gate

Attachment 2: Revised Plans: Sheets G-01, G-02, G-07, D-03, C-03, C-05, C-07, C-09, and C-11

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

ATTACHMENT NO. 1

ADDENDUM NO. 3

Article 23.07 Removal and Replacement of 42 Inch Storm Drain and Flap Gate

Attachment 1

Article 23.07 Removal and Replacement of 42-Inch Storm Drain and Flap Gate

23.07.01. Storm Drain and Flap Gate Removal

23.07.01.01. Scope of Work

A. Storm drain and flap gate removal will consist of the demolition, removal and disposal of existing corrugated steel pipe outfall and flap gate. This item will include any trench excavation required to uncover the existing storm drain as shown on the Drawings, as specified in these Specifications, and as directed by the Engineer.

B. Storm Drain and Flap Gate Removal will conform to the provisions of Section 71-2, "Remove Drainage Facilities," of the State Specifications except as modified herein.

C. Contractor's attention is directed to Special Provisions Article 16.02. Utilities for work adjacent to, or relocation of, existing utilities.

D. Maintain a minimum of a 4-foot clearance of any storm drain removal activity from the channel wall as shown in the Drawings.

23.07.01.02. Materials

A. Not used.

23.07.01.03. Measurement

A. Storm Drain and Flap Gate Removal will not be measured.

23.07.01.04. Payment

A. Full compensation for furnishing all labor, materials, tools, equipment, incidentals, and disposal and for doing all Work required for Storm Drain and Flap Gate Removal Work under this item as shown on the Drawings, as specified in these Specifications, and as directed by the Engineer shall be included in the unit price bid per cubic yard (CY) for **CONCRETE REMOVAL AND SITE DEMOLITION—Bid Item No. 7**, and no additional time or payment will be allowed.

23.07.02. 42-Inch Storm Drain and Flap Gate Replacement

23.07.02.01. Scope of Work

A. The Contractor will furnish all labor, equipment, materials, trench excavation, and trench backfill necessary to replace the removed corrugated storm drain as shown on the Drawings and as specified in these Technical Specifications.

B. 42-Inch Storm Drain and Flap Gate Replacement will comply with the provisions of Section 70-2 “Corrugated Metal Pipe Drainage Facilities” of the State Specifications, except as modified herein.

C. Shoring, if necessary, will conform to Technical Provisions Article 24.03.Temporary Shoring and Sloping.

23.07.02.02. Materials

A. Storm drain shall be 42-inch diameter made of 16-gauge galvanized corrugated steel pipe (CMP).

B. Coupling for the existing CMP storm drain to the new CMP shall be Contech 42-inch galvanized steel 42-inch Hugger H-12 band, or approved equal.

C. The Flap Gate replacement shall be Waterman F-10 cast iron drainage gate compatible with 42-inch CMP, or approved equal.

D. Flowable Fill

1. Pipe bedding and pipe embedment material shall be flowable fill of Controlled Low Strength Material (CLSM) up to a minimum of 12 inches over the crown of the pipe. Flowable fill or CLSM shall be between 40 to 80 psi compressive strength after 28 days curing time.

2. Flowable fill or CLSM shall be monitored to ensure that the slurry flows into and occupies all voids around the buried pipe. Vibration may be necessary to ensure that the slurry flows into the openings around the pipe. The consistency of the flowable fill or CLSM shall have a spread of 8 to 12 inches in accordance with ASTM D 6103, Flow Consistency of CLSM. Contractor shall monitor for pipe floatation during placement of flowable fill and may need to place the fill in thin lifts or weigh/restrain the pipe to prevent flotation. After the initial set of the flowable fill or CLSM, or about 3 to 4 hours, trench backfill may be placed.

23.07.02.03. Placement

A. Replacement of the storm drain and flap gate will be in accordance with Section 31-03 Storm Drain Installation Construction Methods of City of Mountain View Standard Provisions and Standard Details, 2019, as applicable, per Manufacturer’s written recommendations and instructions, as specified in these Specifications, and as directed by the Engineer.

B. Installment of the pipe coupler will be in accordance with the Manufacturer’s written recommendations and instructions.

C. Maintain a minimum of a 4-foot clearance of any storm drain and flap gate construction activity from the existing channel wall as shown on the Drawings.

D. Excavation and backfill will conform to pertinent requirements of Technical Provisions Articles 24.01. Channel Excavation and 24.02. General Fill.

E. New pipe alignment, slope, and elevation to conform to existing pipe and match existing pipe alignment, slope, and elevation.

F. Flap gate must be placed to be clear of rock, flowable fill, and debris to allow free operation, opening, and closing.

23.07.02.03. Testing

A. Storm drain will be tested in accordance with Section 70-3.01D of the State Specifications.

B. Testing of flange welds shall comply with the provisions of AWS D1.1.

23.07.02.04. Submittals

A. The Contractor shall furnish to the Engineer the Manufacturer’s certificate showing that the storm drain pipes and flap gate conform to the specified ASTM designation.

B. The Contractor shall submit to the Engineer the Manufacturer's catalog data for the pipe couplers in accordance with Article 7.05 of the Standard Specifications.

C. Submittals for flowable fill or CLSM shall be 1) a mix design in accordance with the material and testing requirements for flowable fill or CLSM, and 2) test results for flow consistency, and 3) test results for compressive strength at 7 and 28 days.

23.07.02.05. Payment

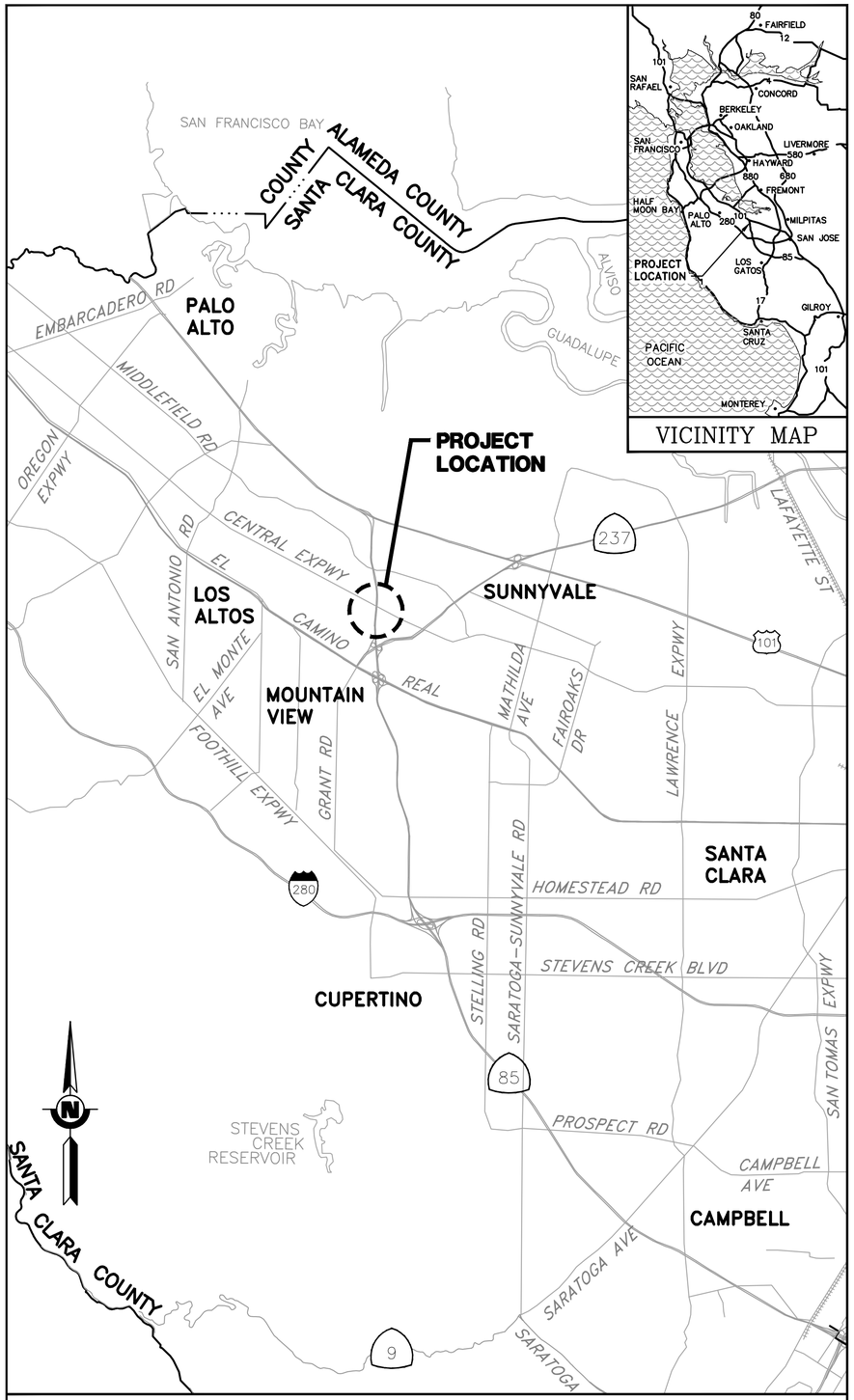
A. Full compensation for furnishing all labor, materials, tools, equipment, incidentals, and disposal and for doing all Work required for Replacement of 42-Inch Storm Drain and Flap Gate Work under this item as shown on the Drawings, as specified in these Specifications, and as directed by the Engineer shall be included in the unit price bid per cubic yard (CY) for **CONCRETE REMOVAL AND SITE DEMOLITION—Bid Item No. 7**, and no additional time or payment will be allowed.

C0708 – STEVENS CREEK EVELYN FISH PASSAGE PROJECT

ATTACHMENT NO. 2

ADDENDUM NO. 3

Revised Plans: Sheets G-01, G-02, G-07, D-03, C-03, C-05, C-07, C-09, and C-11



LOCATION MAP
SCALE: 1" = 5,000'

MAP AND CONSTRUCTION PLAN

FOR

STEVENS CREEK EVELYN AVENUE

FISH PASSAGE PROJECT

MOUNTAIN VIEW, CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

REGISTERED PROFESSIONAL ENGINEER
DENIS M RUTTENBERG
No. 54561
CIVIL
STATE OF CALIFORNIA

PREPARED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

DENIS RUTTENBERG, P.E. — DATE
ASSOCIATE ENGINEER – CIVIL
DESIGN AND CONSTRUCTION UNIT 2
WATERSHED DESIGN AND CONSTRUCTION

APPROVED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

KARL NEUMAN, P.E. — DATE
CAPITAL ENGINEERING MANAGER
DESIGN AND CONSTRUCTION UNIT 2
WATERSHED DESIGN AND CONSTRUCTION

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

BHAVANI YERRAPOTU, P.E. — DATE
DEPUTY OPERATING OFFICER–CIVIL
WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

ACCEPTED BY:

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

JENNIFER CODIANNE — DATE
DEPUTY OPERATING OFFICER
WATERSHEDS OPERATION AND MAINTENANCE DIVISION

ADDENDA DRAWING SET
05-29-25

CONTRACT NUMBER	C–0708
PROJECT NUMBER	62084001
SHEET CODE:	G–01
SHEET NUMBER: 01	TOTAL SHEETS: 35

USERNAME: TungTran 5/29/2025 3:02 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-01_A2.dwg

DOCUMENT NUMBER: STV_LP-G-1029-84696

GENERAL NOTES

1. EXISTING UTILITIES FROM AS-BUILT DRAWINGS SHOWING APPROXIMATE LOCATIONS ARE TO BE VERIFIED BY CONTRACTOR.
2. ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN EXISTING (DASHED OR SCREENED LINES) ARE TO REMAIN. EXISTING UTILITIES SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
3. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON INFORMATION FROM THE UTILITY AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY.
4. PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND DEPTHS AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL UNDERGROUND SERVICE ALERT AT (800) 642-2444 FOR LOCATION.
5. THE CONTRACTOR SHALL COMPLY WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
6. ALL REFERENCES MADE TO RIGHT OR LEFT, AND ALL CROSS SECTIONS SHOWN ON PLAN ARE VIEWED LOOKING UPSTREAM.
7. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCES AND OTHER WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS.
8. ALL INCIDENT SOILS REMOVED FROM THE PROJECT SITE ARE TO BE PROPERLY TESTED PRIOR TO DISPOSAL (SEE SPECIFICATIONS). LIMITED TO SAN FRANCISCO BAY WATERSHED. REMOVAL OF SOILS TO BE IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS.
9. THE WORK INCLUDES CONSTRUCTING A ROUGHENED CHANNEL CONSISTING OF CHUTES, POOLS, STRUCTURAL ROCKS, AND BOULDER ERRATICS; CONSTRUCTING SLOPE PROTECTION; INSTALLING A ROOTWAD HABITAT STRUCTURE; RECONFIGURING A BOULDER FLOOD BYPASS WEIR; EROSION CONTROL; AND PLANTING MITIGATION TREES, AS DESCRIBED IN THESE DRAWINGS AND IN THE PROJECT SPECIFICATIONS AND AS NEEDED TO COMPLETE CONSTRUCTION.
10. THE WORK SHALL COMPLY WITH ALL PERMIT REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, DEWATERING OF THE WORK AREA, AVOIDANCE OF SENSITIVE HABITAT AREAS, BIOLOGICAL EXCLUSION FENCING AND COORDINATION WITH BIOLOGICAL MONITORING CONSULTANTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES. SPECIAL SAFETY PRECAUTIONS TO BE TAKEN WHEN WORKING IN THE VICINITY OF GAS, OIL AND ELECTRICAL LINES.
12. TREES AND BRUSH NOT SHOWN ON THESE PLANS WILL BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR'S ARBORIST SHALL IDENTIFY AND FLAG ALL TREES TO BE PROTECTED FROM DAMAGE PRIOR TO CONSTRUCTION.
13. ALTERATION OR DISTURBANCE OF MATURE TREES SHALL BE MINIMIZED TO THAT NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL KEEP DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHOWN IN THESE DRAWINGS UNLESS APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE ENGINEER PRIOR TO ANY REQUIRED INSPECTION.
15. CONSTRUCTION MATERIAL AND EQUIPMENT STAGING AREAS SHALL BE LOCATED AS SHOWN IN THESE DRAWINGS. CONSTRUCTION EQUIPMENT SHALL NOT BE STORED OUTSIDE OF IDENTIFIED STORAGE AREAS, UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL PROTECT ALL CONSTRUCTION MATERIALS FROM DAMAGE AT ALL TIMES.
16. TO PREVENT THE INTRODUCTION OF PLANT PATHOGENS, PRIOR TO MOBILIZATION ON-SITE INCLUDING STAGING AREAS, CONTRACTOR SHALL DECONTAMINATE THEIR EQUIPMENT:
    A. VEHICLES, HEAVY MACHINERY, AND LARGE TOOLS (SUCH AS EXCAVATORS, TRENCHERS, GRADERS, INCLUDING TIRES, TRACKS, UNDERCARRIAGE OF ON-SITE VEHICLES, AND THEIR TOOLS AND IMPLEMENTS) SHALL BE CLEANED FREE OF DEBRIS AND SOIL WITH HIGH PRESSURE WASHER AND/OR COMPRESSED AIR FROM ANY PRIOR WORK SITE PRIOR TO ARRIVING AT THE PROJECT SITE.
    B. FOOTWEAR AND SMALL TOOLS (SUCH AS HAND TOOLS, SHOVELS, TROWELS, HOES, AND PERSONNEL BOOTS) SHALL BE THOROUGHLY CLEANED OF DEBRIS AND SOIL PRIOR TO USE WITHIN THE PROJECT SITE.
    C. EQUIPMENT AND TOOLS MOVED OFF-SITE AND RETURNED FOR LATER USE WILL AGAIN REQUIRE DECONTAMINATION BY THE CONTRACTOR.
18. EQUIPMENT SHALL BE CHECKED AT THE BEGINNING AND END OF EACH WORK DAY FOR LEAKS.
19. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, CHEMICALS OR ANY OTHER TOXIC MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO THE CREEK.
20. IF AT ANY TIME DURING CONSTRUCTION, FISH ARE OBSERVED IN DISTRESS, A FISH KILL IS OBSERVED OR WATER QUALITY PROBLEMS DEVELOP, OPERATIONS SHALL CEASE AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT RESUME UNTIL FURTHER APPROVAL BY THE ENGINEER.

DESIGN NOTES

HORIZONTAL DATUM : CALIFORNIA COORDINATE SYSTEM 83 ZONE III

VERTICAL DATUM : NORTH AMERICAN VERTICAL DATUM 88 (NAVD88).

UNITS OF MEASURE : U.S. SURVEY FEET.

BASIS OF BEARING: THAT LINE BETWEEN SURVEY CONTROL POINTS #11 & #17, TAKEN TO BEAR: SOUTH 16°40'28" EAST.

BASIS OF ELEVATION: SURVEY CONTROL POINT #17, BEING A CUT X ON THE TOP OF THE CURB OF EVELYN AVENUE, TAKEN AS 88.05 FEET.

ALL DISTANCES ARE IN FEET AND DECIMALS, THEREOF

1. SEE SHEET G-05 FOR SURVEY CONTROL UNIT.
2. DESIGN DISCHARGE:
   Q100 = 7,000 CFS
   Q10 = 5,100 CFS
   Q2.33 = 900 CFS
   Q1.5 = 300 CFS
   FLOW RATES BASED ON SCVWD HYDROLOGY (UNOFFICIAL).
3. MANNING'S ROUGHNESS COEFFICIENT N AS FOLLOWS WERE APPLICABLE:
   A. EXISTING NATURAL VEGETATION = 0.06
   B. CONCRETE CHANNEL = 0.015
   C. COMPOSITE NATURAL CHANNEL = 0.035
   D. ROUGHENED CHANNEL = VARIES VERTICALLY WITH DEPTH.

DRAWING INDEX

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING
05-29-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

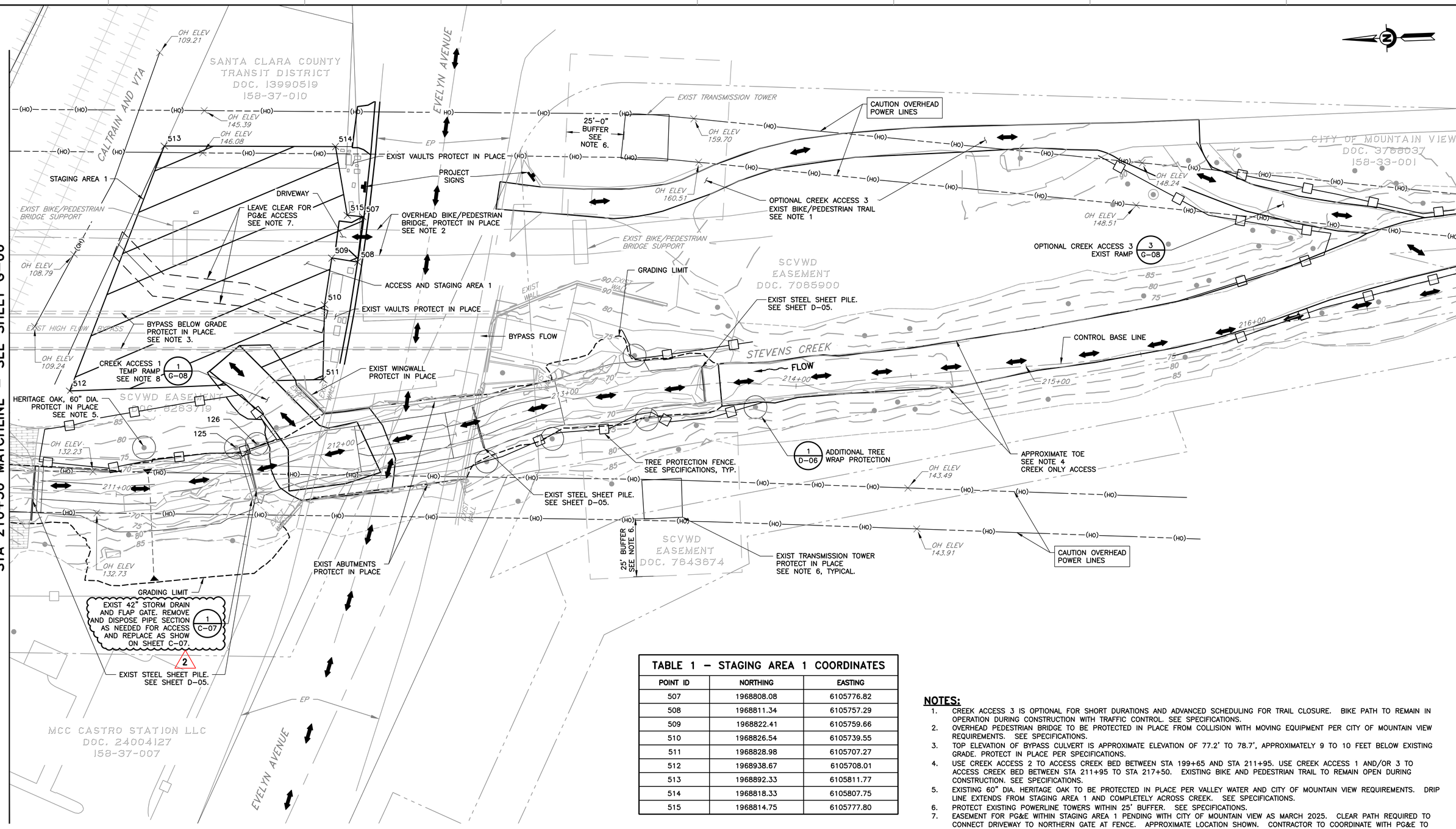
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVIS M RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
GENERAL NOTES AND DRAWING INDEX

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 2 G-02
SHEET NUMBER: 2



SITE PLAN
SCALE: 1" = 20'

TABLE 1 – STAGING AREA 1 COORDINATES		
POINT ID	NORTHING	EASTING
507	1968808.08	6105776.82
508	1968811.34	6105757.29
509	1968822.41	6105759.66
510	1968826.54	6105739.55
511	1968828.98	6105707.27
512	1968938.67	6105708.01
513	1968892.33	6105811.77
514	1968818.33	6105807.75
515	1968814.75	6105777.80

NOTES:

1. CREEK ACCESS 3 IS OPTIONAL FOR SHORT DURATIONS AND ADVANCED SCHEDULING FOR TRAIL CLOSURE. BIKE PATH TO REMAIN IN OPERATION DURING CONSTRUCTION WITH TRAFFIC CONTROL. SEE SPECIFICATIONS.
2. OVERHEAD PEDESTRIAN BRIDGE TO BE PROTECTED IN PLACE FROM COLLISION WITH MOVING EQUIPMENT PER CITY OF MOUNTAIN VIEW REQUIREMENTS. SEE SPECIFICATIONS.
3. TOP ELEVATION OF BYPASS CULVERT IS APPROXIMATE ELEVATION OF 77.2' TO 78.7', APPROXIMATELY 9 TO 10 FEET BELOW EXISTING GRADE. PROTECT IN PLACE PER SPECIFICATIONS.
4. USE CREEK ACCESS 2 TO ACCESS CREEK BED BETWEEN STA 199+65 AND STA 211+95. USE CREEK ACCESS 1 AND/OR 3 TO ACCESS CREEK BED BETWEEN STA 211+95 TO STA 217+50. EXISTING BIKE AND PEDESTRIAN TRAIL TO REMAIN OPEN DURING CONSTRUCTION. SEE SPECIFICATIONS.
5. EXISTING 60" DIA. HERITAGE OAK TO BE PROTECTED IN PLACE PER VALLEY WATER AND CITY OF MOUNTAIN VIEW REQUIREMENTS. DRIP LINE EXTENDS FROM STAGING AREA 1 AND COMPLETELY ACROSS CREEK. SEE SPECIFICATIONS.
6. PROTECT EXISTING POWERLINE TOWERS WITHIN 25' BUFFER. SEE SPECIFICATIONS.
7. EASEMENT FOR PG&E WITHIN STAGING AREA 1 PENDING WITH CITY OF MOUNTAIN VIEW AS MARCH 2025. CLEAR PATH REQUIRED TO CONNECT DRIVEWAY TO NORTHERN GATE AT FENCE. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO COORDINATE WITH PG&E TO COMPLY WITH EASEMENT REQUIREMENTS. SEE SPECIFICATIONS.
8. CREEK ACCESS 1 TEMPORARY RAMP TO BE RESTORED TO PRE-PROJECT GRADE AND CONDITIONS. SEE SPECIFICATIONS.
9. CONTRACTOR TO STAKE STAGING AREA 1 PER COORDINATES IN TABLE 1. SCVWD TO APPROVE LOCATION OF STAGING AREA PRIOR TO MOBILIZATION.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING 05-29-25

REFERENCE INFORMATION AND NOTES
SANTA CLARA COUNTY PARCEL MAP SEPTEMBER 2021.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

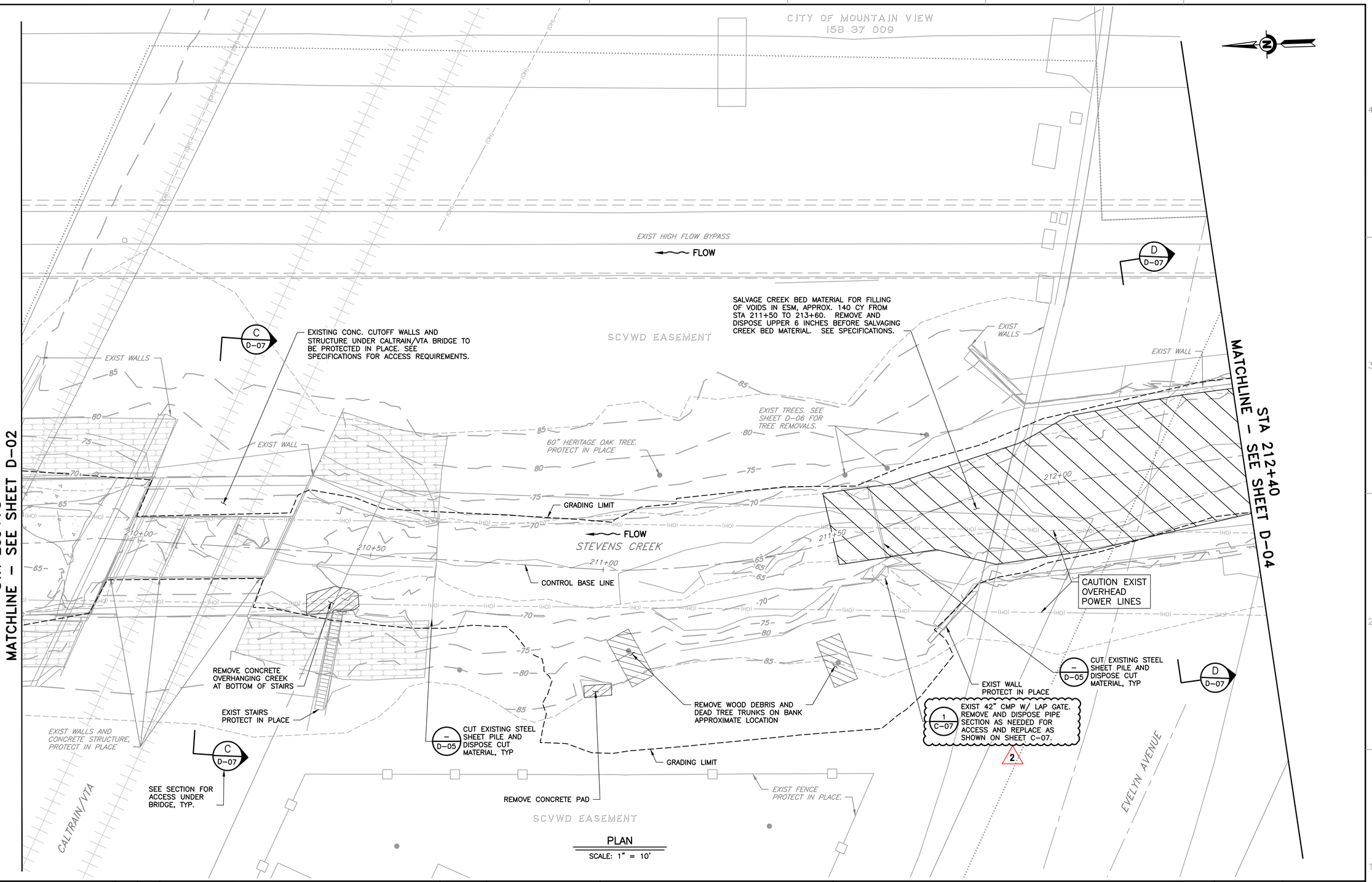
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
STAGING AND ACCESS PLAN STA 210+50 TO 217+50

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 62084001
SHEET CODE: 2 G-07
SHEET NUMBER: 7

DOCUMENT NUMBER: STV_LP-G-1029-84702
USERNAME: TungTran 5/29/2025 3:02 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\G-07_A3.dwg



PLAN
SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING
05-29-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

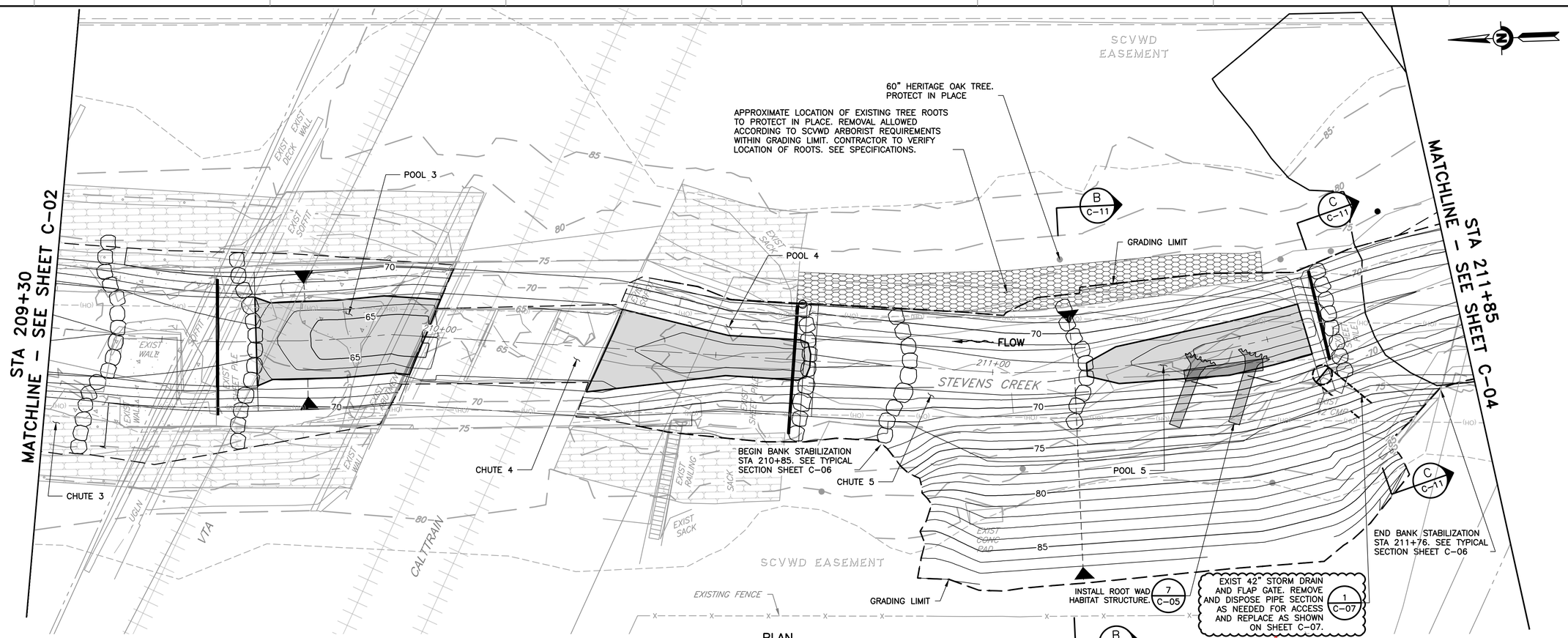
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
EXISTING TOPOGRAPHY AND DEMOLITION PLAN STA 209+64 TO STA 212+40

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 2
D-03
SHEET NUMBER: 18

DOCUMENT NUMBER: STV_LP-D-1029-84713



PLAN

SCALE: 1" = 20'

PROFILE

HORIZ: 1" = 10'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING
05-29-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM PLACEMENT. SEE SHEET PILE REMOVAL REQUIREMENTS ON SHEET D-05.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER DAVID M RUTTENBERG CIVIL STATE OF CALIFORNIA

SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

STEVENS CREEK EVELYN FISH PASSAGE PROJECT

PLAN AND PROFILE STA 209+30 TO 211+85

SCALE: AS SHOWN

VERIFY SCALES 0 1"

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

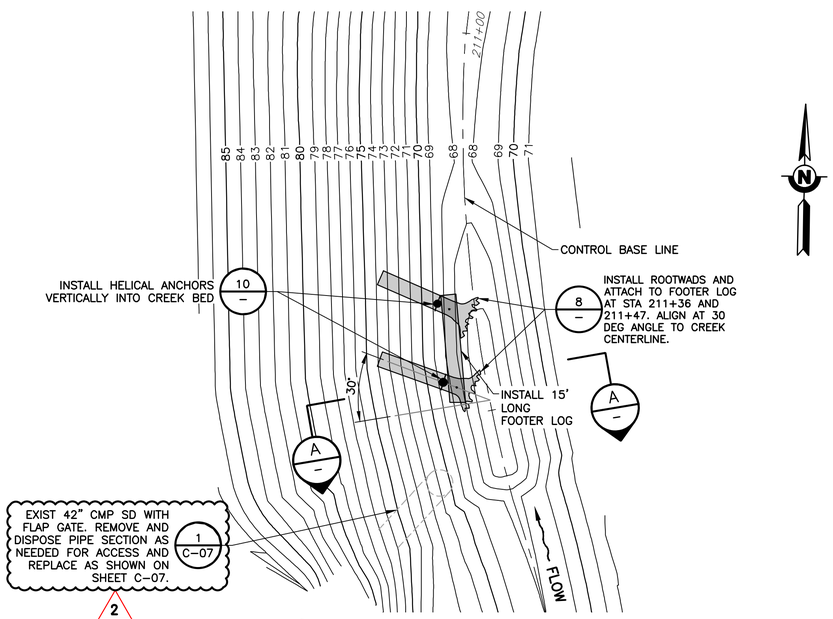
PROJECT NUMBER: 62084001

SHEET CODE: 2 C-03

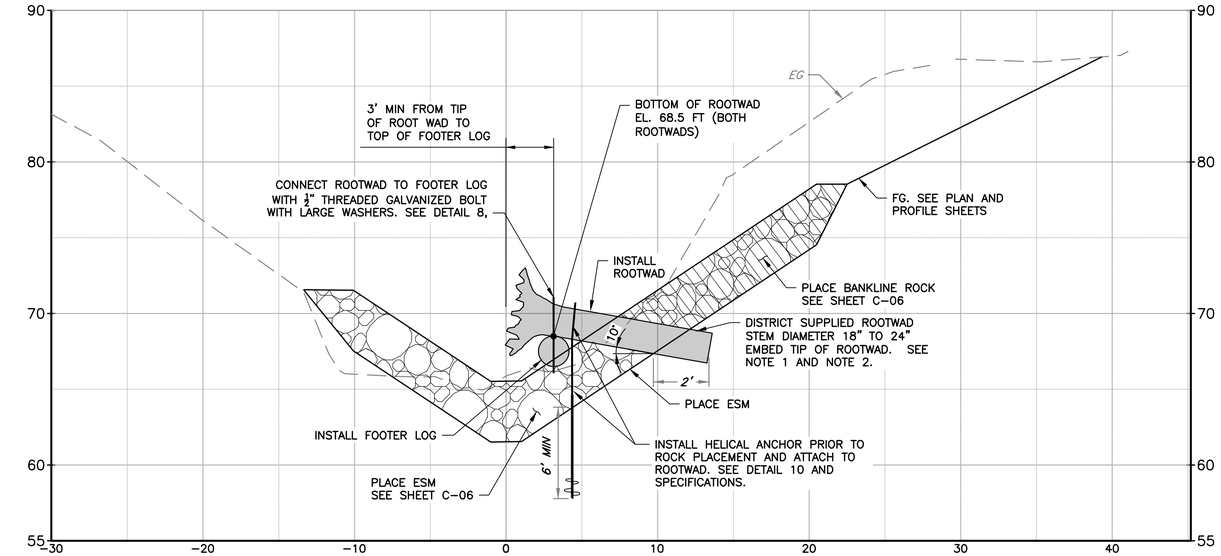
SHEET NUMBER: 25

DOCUMENT NUMBER: STV_LP-C-1029-84720

USERNAME: TungTran 5/29/2025 3:10 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-03_A3.dwg

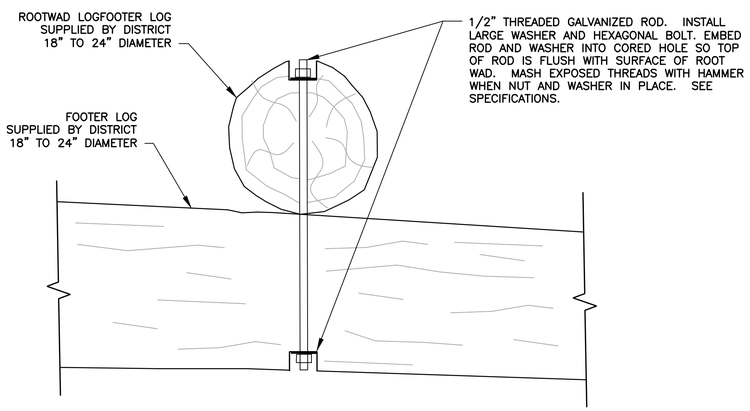


SECTION 7 / C-02 PLAN – ROOTWAD HABITAT STUCTURE
STATION 211+30 TO 211+50
SCALE: 1" = 10'



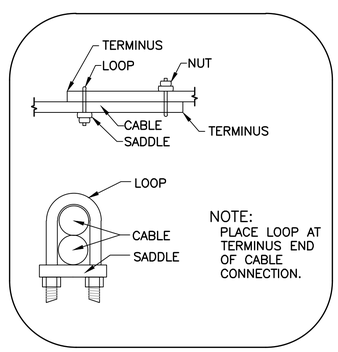
STA 211+45
SECTION A / C-05 FOOTER–ROOTWAD CONNECTION
SCALE: 1" = 5'

NOTES:
1. EMBED TIP OF ROOTWAD INTO EXISTING BANK BEYOND SUBGRADE A MINIMUM OF 2 FEET INTO DRILLED AUGURED HOLE OR SMALL EXCAVATED TRENCH. SEE SPECIFICATIONS FOR ROOTWAD DIMENSIONS.
2. INSTALL ROOTWAD STEM SO STEM IS 10' FROM HORIZONTAL AS SHOWN.



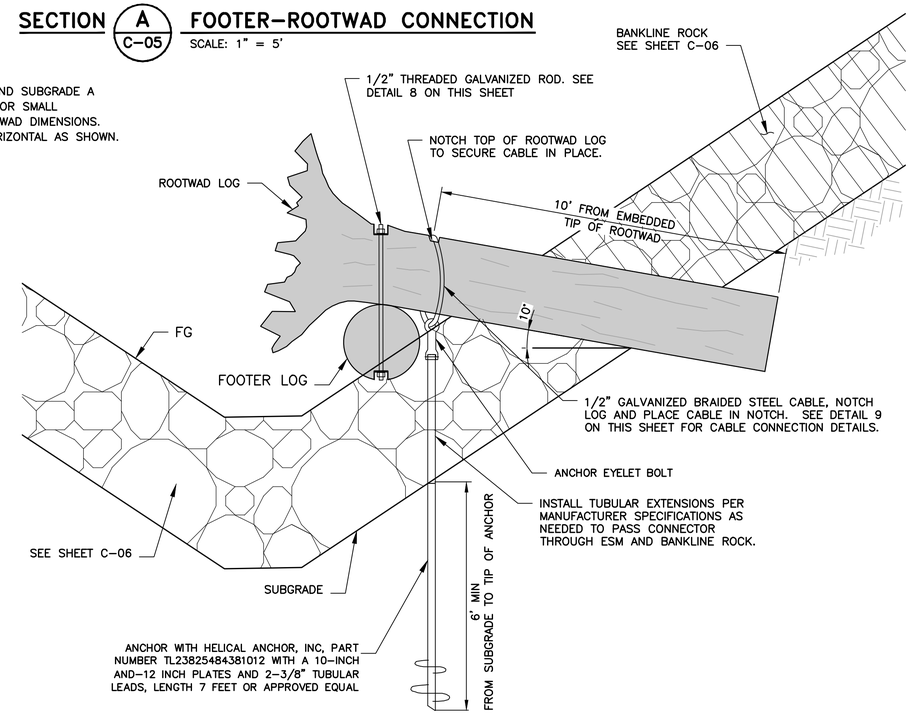
SECTION 8 / – FOOTER–ROOTWAD CONNECTION WITH THREADED ROD
SCALE: NOT TO SCALE

NOTE:
DETAIL IS LOOKING TOWARDS BANK.



NOTES:
1. MAKE CABLE CONNECTIONS IN AREAS TO BE BACKFILLED AND MINIMIZE EXPOSED CABLE.
2. CABLE TO BE 1/2" GALVANIZED BRAIDED STEEL CABLE, OR APPROVED EQUAL,

SECTION 9 / – CABLE CONNECTION
SCALE: NOT TO SCALE



SECTION 10 / – HELICAL ANCHOR
SCALE: NOT TO SCALE

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING 05-29-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
INSTREAM HABITAT DETAILS

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 2
C-05
SHEET NUMBER: 27

DOCUMENT NUMBER: STV_LP-C-1029-84722
USERNAME: TungTran 5/29/2025 3:03 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-05_A3.dwg

GENERAL ROCK NOTES

1. ROCK PLACEMENT SHALL BE AT THE DISCRETION OF ENGINEER, BUT IS GENERALLY SHOWN.
2. ALL ROCK DIMENSIONS ARE MEASURED ALONG THE INTERMEDIATE AXIS, WHICH IS AN AXIS THAT IS NOT THE MINOR OR MAJOR AXIS. THE MINOR AXIS OF AN INDIVIDUAL ROCK FRAGMENT SHALL NOT BE LESS THAN ONE–THIRD THE MAJOR AXIS.
3. WHERE NOTED THAT ROCK SHALL FOLLOW A "CLASS", REFERENCE IS MADE TO CALTRANS STATE SPECIFICATIONS.

BANKLINE ROCK SPECIFICATIONS

1. GENERAL
   - 1.1. BANKLINE ROCK IS LOCATED ALONG THE CHANNEL MARGINS WHERE SHOWN ON THE DRAWINGS.
   - 1.2. BANKLINE ROCK SHALL ALSO BE USED FOR STRUCTURE ROCK TYPE C WHERE SHOWN ON THE DRAWINGS.
2. PRODUCTS
   - 2.1. BANKLINE ROCKS ARE TO BE RIGID AND RESISTANT TO EROSION. FACES SHALL BE UNEVEN, PROTRUDE INTO THE CHANNEL AND BE ROUGH IN APPEARANCE.
   - 2.2. BANKLINE ROCKS SHALL BE 1 TON CLASS VIII ROCK ACCORDING CALTRANS STATE SPECIFICATIONS WITH BACKING MATERIAL AS A BASE LAYER, AS SHOWN ON THE DRAWINGS.
3. EXECUTION
   - 3.1. INSTALL BACKING MATERIAL AND BANKLINE ROCK WHERE SHOWN ON THE DRAWINGS.
   - 3.2. BUILD BANKLINE ROCK IN TWO FOOT LIFTS.
   - 3.3. PLACE BACKING MATERIAL IN BANKLINE ROCK VOIDS WITH EACH LIFT. TAMP FILLER MATERIAL. FOLLOW BY WATER JETTING. CONTINUE UNTIL VOIDS VISUALLY APPEAR FILLED AND WATER REMAINS FLOWING ON THE SURFACE, OR A MINIMUM OF TWO PASSES WITH BACKING MATERIAL AND WATER JETTING. SEE SPECIFICATIONS.

BACKING MATERIAL SPECIFICATIONS

1. GENERAL
   - 1.1. BACKING MATERIAL IS LOCATED AS A BOTTOM LAYER FOR ESM, STRUCTURE ROCKS TYPE A, STRUCTURE ROCKS TYPE B, STRUCTURE ROCKS TYPE C, AND BANKLINE ROCK AS SHOWN ON THESE DRAWINGS.
   - 1.2. BACKING MATERIAL IS UTILIZED AS FILLER MATERIAL FOR ALL WATER JETTING.
2. PRODUCTS
   - 2.1. BACKING MATERIAL SHALL FOLLOW THE BELOW GRADATION TABLE.

PERCENT FINER	DIAMETER (INCHES)	SIEVE SIZE
100	9	9"
85	6	6"
50	1	1"
15	0.035	NO. 20
5	0.016	NO. 40

3. EXECUTION
   - 3.1. PREPARE SUBGRADE FOR RECEIVING ROCK BACKING MATERIAL. SEE SPECIFICATIONS.

STRUCTURE ROCK SPECIFICATIONS

1. GENERAL
   - 1.1. STRUCTURE ROCK INCLUDES ROCK SPECIFICALLY PLACED IN CHUTES AND POOLS FOR ROCK BANDS AND BOULDER ERRATICS. STRUCTURE ROCKS ARE INTENDED TO PROVIDE THE CHANNEL'S STRUCTURAL FRAMEWORK AS WELL AS ROUGHNESS.
2. PRODUCTS
   - 2.1. STRUCTURE ROCK
     - 2.1.1. STRUCTURE ROCK SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5 AND SHALL BE DURABLE AND OF SUITABLE QUALITY, SOUND AND DENSE, FREE FROM CRACKS, SEAMS AND OTHER DEFECTS THAT INCREASE DETERIORATION FROM WEATHERING. FACES SHALL BE UNEVEN AND ROUGH IN APPEARANCE.
     - 2.1.2. STRUCTURE ROCK APPROXIMATE DIAMETERS, BY GROUP, ARE LISTED IN THE BELOW TABLE.

STRUCTURE ROCKS	RANGE OF DIAMETER (INCHES)
A	40 – 60
B	32 – 52
C	BANKLINE ROCK

   - 2.2. BOULDER ERRATICS
     - 2.2.1. BOULDER ERRATICS SHALL BE STRUCTURE ROCKS TYPE B LISTED IN THE TABLE IN NOTE 2.1.2.
3. EXECUTION
   - 3.1. STRUCTURE ROCK
     - 3.1.1. ROCK SHALL BE INDIVIDUALLY SELECTED AND PLACED ACCORDING TO METHOD A PLACEMENT IN CALTRANS STATE SPECIFICATIONS.
     - 3.1.2. PLACEMENT METHOD A DOES NOT ALLOW PLACEMENT OF ROCK BY DUMPING. SEE THE STATE SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
     - 3.1.3. PLACE ROCK SUCH THAT THE ROCK RESISTS ROLLING DUE TO GRAVITATIONAL AND HYDRAULIC FORCES.
     - 3.1.4. ROCK MUST EXTEND ABOVE FINISHED GRADE BETWEEN APPROXIMATELY 1/3 OF ITS DIAMETER.
     - 3.1.5. ROCK SHALL BE PLACED SO THAT EACH ROCK IN A SERIES IS WORKING WITH THE OTHER ROCK TO COUNTERACT HYDRAULIC FORCES. THERE SHALL BE A MINIMUM OF THREE (3) POINTS OF CONTACT WITH ADJOINING ROCK.

ENGINEERED STREAMBED MATERIAL (ESM) SPECIFICATIONS

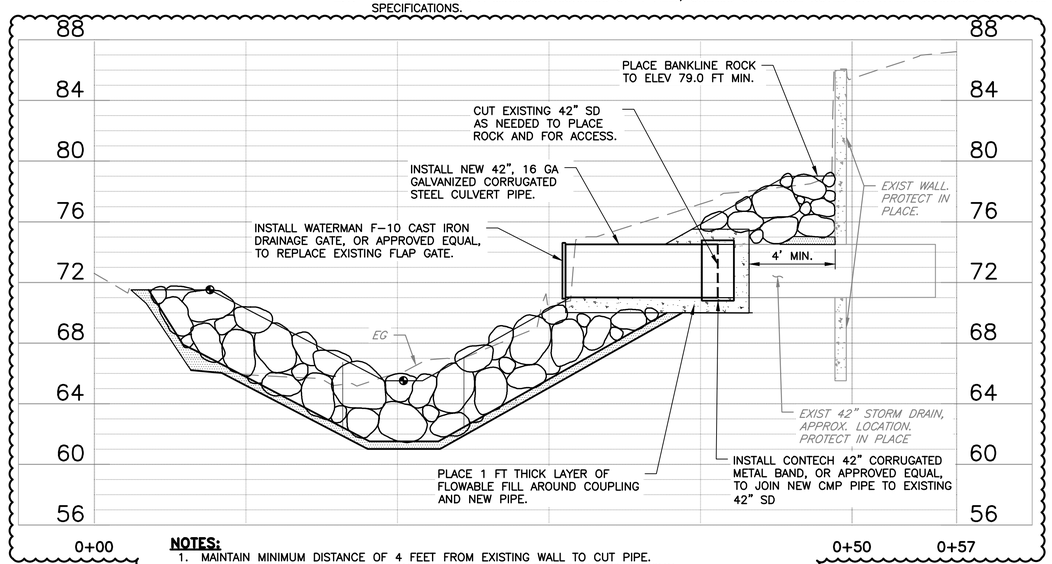
1. GENERAL
   - 1.1. ENGINEERED STREAMBED MATERIAL (ESM) IS ROCK MATERIAL PLACED IN THE CENTER SECTION OF THE CHUTE AND POOL CHANNEL BETWEEN STRUCTURE ROCKS AND BOULDER ERRATICS. SEE SHEETS C–06, C–08, C–10, AND THE SPECIFICATIONS.
2. PRODUCTS
   - 2.1. ESM SHALL HAVE A MINIMUM THICKNESS OF 4 FEET, UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIFICATIONS.
   - 2.2. ESM SHALL FOLLOW THE BELOW GRADATION TABLE.

ESM GRADATION	
PERCENTAGE PASSING	PERCENTAGE PASSING
54 INCH	90–100
36 INCH	75–90
15 INCH	40–60
3/4 INCH	10–20
No. 10	5–10
No. 200	0–5

2

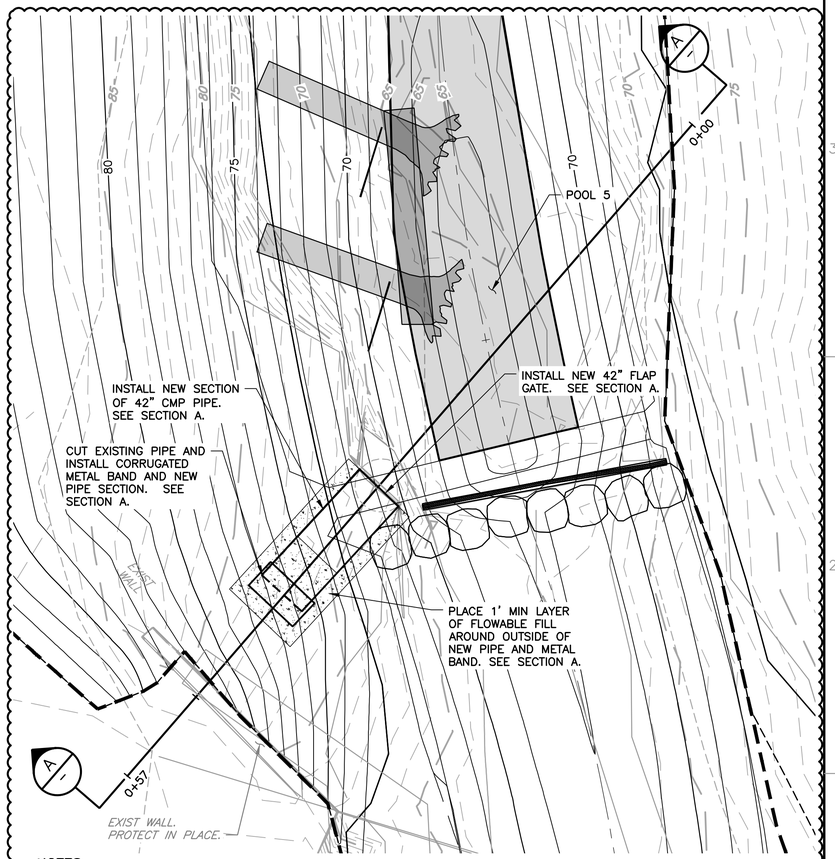
* ROCK AND GRAVEL THAT IS 15 INCHES OR LESS IN SIEVE SIZE WILL CONSIST OF CLEAN, HARD, AND ROUNDED RIVER ROCK FROM A QUARRY.

3. EXECUTION
   - 3.1. ESM MUST BE PLACED IN 2 FOOT LIFTS. SEE DETAIL 1 SHEET C–08.
   - 3.2. ESM SHALL BE PLACED USING METHOD B PLACEMENT PER CALTRANS STATE SPECIFICATIONS. METHOD B PLACEMENT ALLOWS FOR PLACEMENT OF ROCK MATERIALS BY DUMPING AND SPREADING OF LAYERS WITH SUITABLE EQUIPMENT.
   - 3.3. ESM SHALL SURROUND AND FILL VOIDS AROUND STRUCTURE ROCKS FOR ROCK BANDS AND BOULDER ERRATICS.
   - 3.4. EACH LIFT OF ESM SHALL INCLUDE STRUCTURE ROCK FROM ALL ROCK TYPES AS SHOWN IN THE TABLE IN NOTE 2.2. ROCK WILL PROTRUDE MORE THAN 1/3 OF ITS DIAMETER ABOVE FINISH GRADE.
   - 3.5. ESM SHALL BE PLACED IN 2 FOOT THICK LAYERS WITH VOID FILLING AND WATER JETTING OF BACKING MATERIAL SEE DETAIL 1 ON SHEET C–08 AND THE SPECIFICATIONS.
   - 2 3.6. THE FINAL LIFT SHALL BE ROUGH IN APPEARANCE WITH ROCK PROTRUDING NO MORE THAN 1/3 OF THE DIAMETER OF INDIVIDUAL ROCKS ABOVE FINISHED GRADE.



NOTES:
1. MAINTAIN MINIMUM DISTANCE OF 4 FEET FROM EXISTING WALL TO CUT PIPE.
2. ENGINEER TO APPROVE CUTTING AND REPLACEMENT OF PIPE PRIOR TO REMOVAL.
3. DISPOSE REMOVED MATERIALS PER SPECIFICATIONS.

2 SECTION A/– REMOVAL AND REPLACEMENT OF 42" SD
SCALE: 1" = 5'



NOTES:
1. REMOVE AND REPLACE PIPE AND FLAP GATE AS NEEDED TO FOR TEMPORARY ACCESS AND TO PLACE NEW ROCK MATERIAL.
2. NEW PIPE TO MATCH ANGLE AND ELEVATION OF EXISTING PIPE.
3. PIPE TO BE BE ANGLED TO RELEASE STORM WATER INTO POOL 5.

2 DETAIL 1/C–03 REMOVAL AND REPLACEMENT OF 42" SD
SCALE: 1" = 5'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING 05–29–25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER JAMES M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS–BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
BANKLINE ROCK, ESM AND STRUCTURE ROCK REQUIREMENTS; STORM DRAIN REPLACEMENT DETAIL 2

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 2 C–07
SHEET NUMBER: 29

DOCUMENT NUMBER: STV_LP–C–1029–84724

USERNAME: TungTran 5/29/2025 3:03 PM
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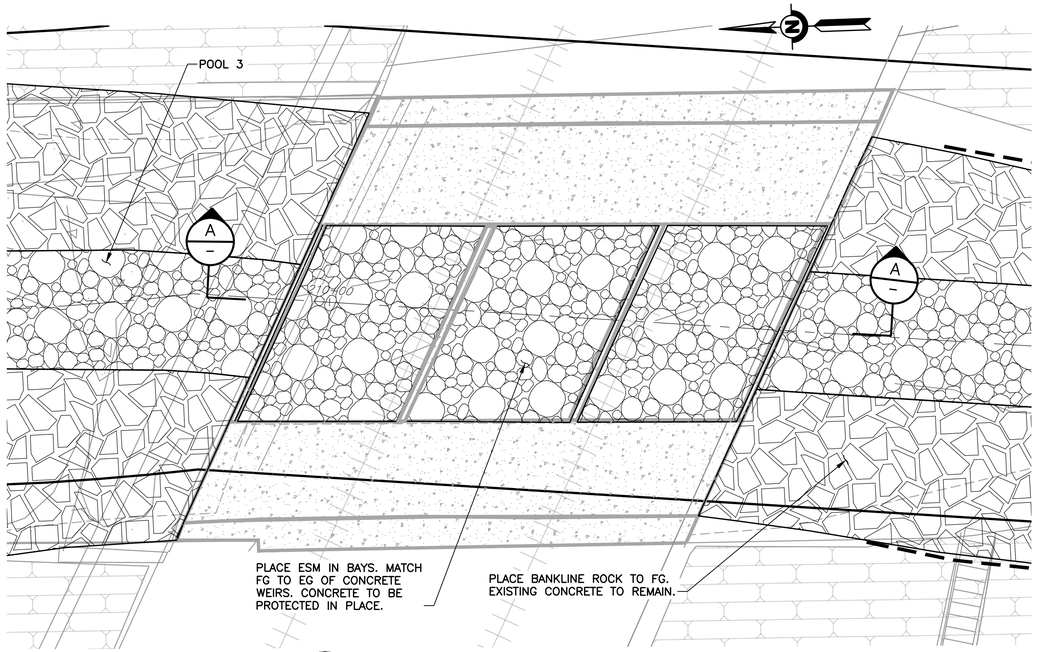
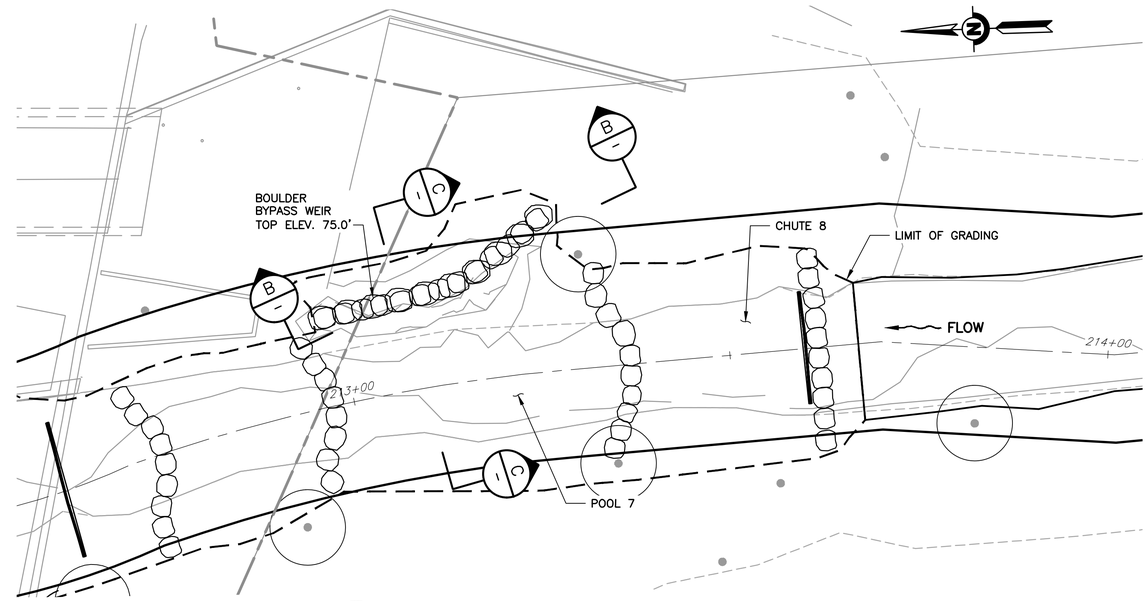


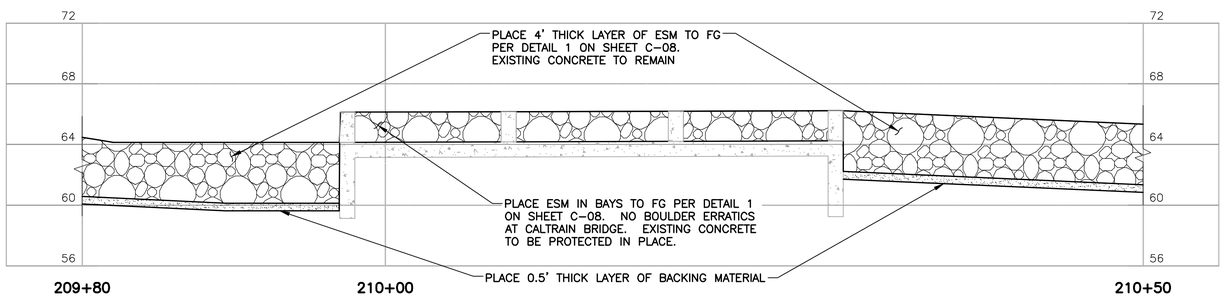
DETAIL 4 / C-02 PLAN DETAIL AT CALTRAIN BRIDGE (ESM) PLACEMENT

SCALE: 1" = 5'



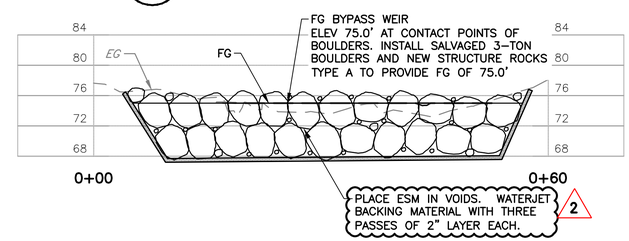
DETAIL 5 / C-04 PLAN DETAIL AT BOULDER BYPASS WEIR

SCALE: 1" = 10'



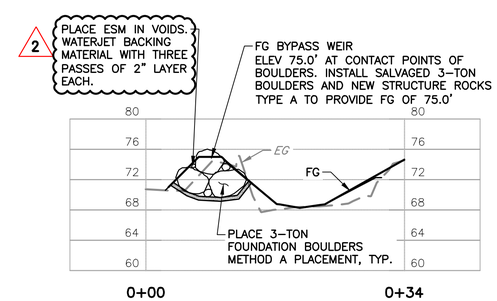
SECTION A / – PROFILE THROUGH CALTRAIN BRIDGE

SCALE: 1" = 5'



SECTION B / – PROFILE THROUGH BOULDER BYPASS WEIR

SCALE: 1" = 10'



SECTION C / – CROSS SECTION THROUGH BOULDER BYPASS WEIR

SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING 05-29-25

REFERENCE INFORMATION AND NOTES

1. EXIST SHEET PILE TO BE PARTIALLY REMOVED DURING EXCAVATION FOR ESM. THE PORTION OF EACH EXIST SHEET PILE REMOVED IS TBD DURING CONSTRCUTION BASED ON SITE CONDITIONS.

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

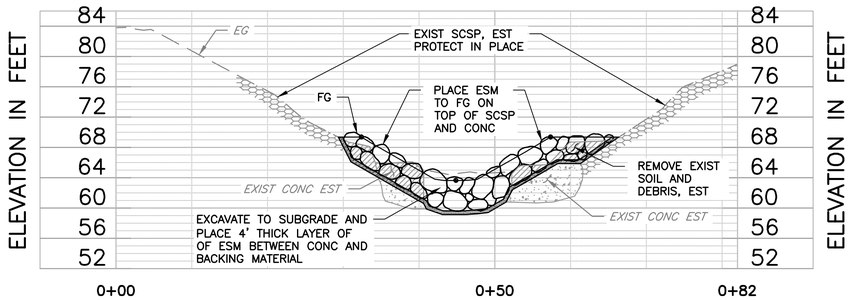
SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK EVELYN FISH PASSAGE PROJECT
ESM PLACEMENT DETAILS SHEET 2

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

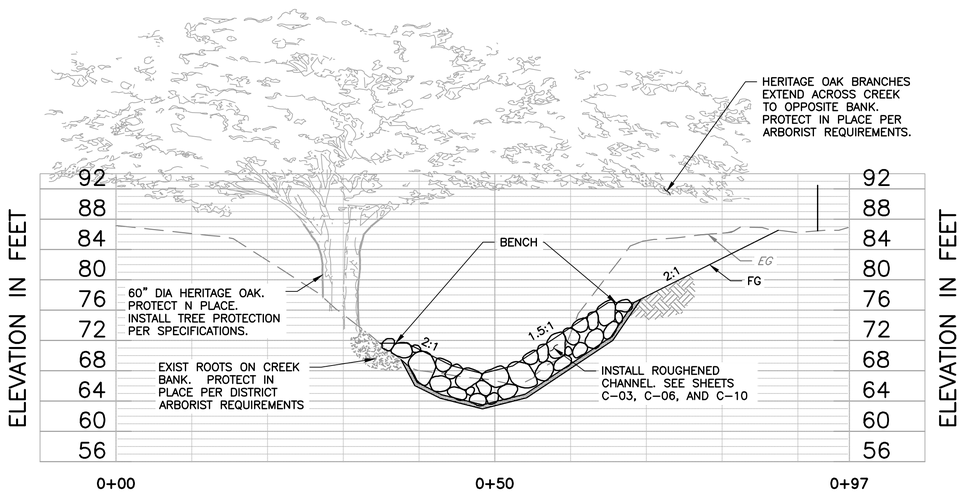
PROJECT NUMBER 62084001
SHEET CODE: 2 C-09
SHEET NUMBER: 31

DOCUMENT NUMBER: STV_LP-C-1029-84726
USERNAME: TungTran 5/29/2025 3:04 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-09_A3.dwg



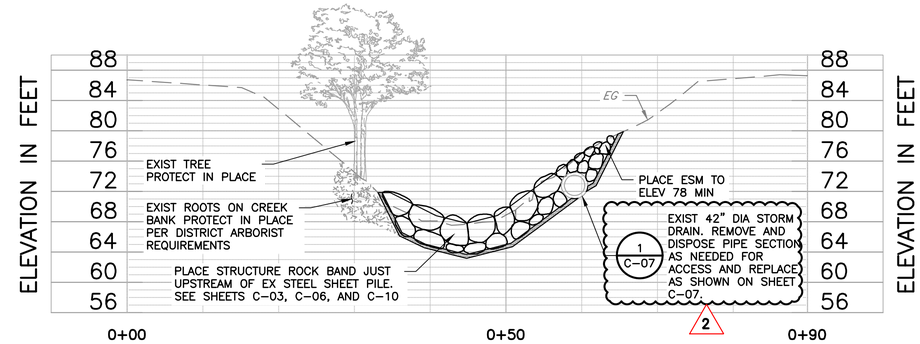
SECTION A (D-02) CROSS SECTION AT CENTRAL EXPRESSWAY STATION 209+00

SCALE: NTS



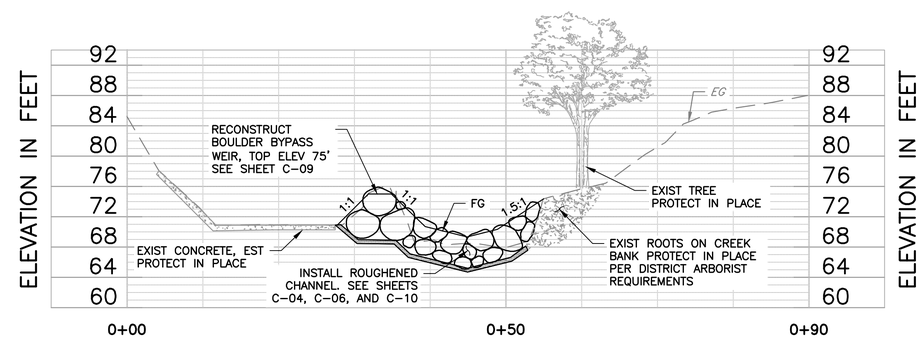
SECTION B (D-02) CROSS SECTION AT HERITAGE OAK STATION 211+13

SCALE: NTS



SECTION C (D-03) CROSS SECTION JUST UPSTREAM OF SHEET PILE AT STORM DRAIN, STATION 211+62

SCALE: NTS



SECTION D (D-03) CROSS SECTION UPSTREAM OF EVELYN AVE AT BYPASS WEIR AND EXISTING TREE, STATION 212+97

SCALE: NTS

NOTES:

1. SEE SPECIFICATIONS FOR PROTECTION MEASURES AT EXISTING TREES.
2. CONCRETE REMOVAL ONLY AT STRUCTURE BANDS AS SHOWN ON SHEET D-02.

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #2	5/25	DR
2	ADDENDUM #3	5/25	DR

ADDENDA DRAWING 05-29-25

REFERENCE INFORMATION AND NOTES

DATE 04/07/2025
DESIGN D. RUTTENBERG
DRAWN T. TRAN
CHECKED K. NEUMAN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DENIS M. RUTTENBERG CIVIL STATE OF CALIFORNIA
SEE ORIGINAL "AS-BID" DOCUMENTS FOR SIGNATURE AND DATE
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
STEVENS CREEK
EVELYN FISH PASSAGE PROJECT
TYPICAL SECTIONS AT CONSTRICTIONS AND OBSTRUCTIONS

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 62084001
SHEET CODE: 2 C-11
SHEET NUMBER: 33

DOCUMENT NUMBER: STV_LP-C-1029-84728

USERNAME: TungTran 5/29/2025 3:04 PM
FILENAME: K:\Active Projects\MP-62084001\Evelyn Fish Passage_SHEETS\C-11_A3.dwg

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