ATTACHMENT 3

RESOLUTION NO. 23-2383

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF ARROYO GRANDE APPROVING CONDITIONAL USE PERMIT 23-001 AND CERTIFYING AN ADDENDUM TO A PREVIOUSLY CERTIFIED MITIGATED NEGATIVE DECLARATION; LOCATION – AN APPROXIMATELY ONE-MILE STRETCH OF CORBETT CREEK BETWEEN EAST BRANCH STREET AND 379 CORBETT CANYON ROAD; APPLICANT – HALLIE RICHARDS, COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT

WHEREAS, the project site is an approximately one-mile stretch of Corbett Creek located between East Branch Street and 379 Corbett Canyon Road, and

WHEREAS, the applicant has filed Conditional Use Permit 23-001 to complete a comprehensive restoration project; and

WHEREAS, the Staff Advisory Committee considered the project on September 8, 2022 and February 2, 2023 and recommended approval of the project; and

WHEREAS, in accordance with the California Environmental Quality Act (CEQA) Guidelines, staff conducted an Initial Study (IS) and prepared a Mitigated Negative Declaration (MND) and Mitigation Monitoring and Reporting Program (MMRP). The IS/MND was certified by the Planning Commission on April 16, 2013. Due to the age of the environmental document, the applicant prepared an addendum to the IS/MND. The previously certified IS/MND, the MMRP and the addendum are included as Exhibits “B” and “C” and “D,” respectively, in this attached Resolution; and

WHEREAS, the Planning Commission of the City of Arroyo Grande has reviewed the project at a duly noticed public hearing on June 6, 2023; and

WHEREAS, the Planning Commission finds, after due study, deliberation, and public hearing, the following circumstances exist:

Conditional Use Permit Findings:

1. The proposed use is permitted within the subject district pursuant to the provisions of this section and complies with all the applicable provisions of this title, the goals, and objectives of the Arroyo Grande General Plan, and the development policies and standards of the City.

   The proposed use of the site for a restoration project is permitted with approval of a conditional use permit by the City Council after receiving a recommendation from the Planning Commission and the project complies with all applicable provisions of the Arroyo Grande General Plan and Municipal Code.

2. The proposed use would not impair the integrity and character of the district

in which it is to be established or located.

The proposed use of the site for a creek restoration project will not impair the integrity of the project site due to the intent of the project to return the site to its natural condition.

3. The site is suitable for the type and intensity of use or development that is proposed.

   The site is an approximately one-mile stretch of Corbett Creek, which is suitable for a creek restoration project and meets the development standards of the Arroyo Grande Municipal Code.

4. There are adequate provisions for water, sanitation, and public utilities and services to ensure public health and safety.

   The project involves restoring a one-mile section of creek to a natural state. Based on the project description, no utilities will be required at the site. No aspect of the proposed project is anticipated to be overly impactful to the existing services. Conditions of approval developed for the project will additionally ensure public services are minimally impacted.

5. The proposed use will not be detrimental to the public health, safety or welfare or materially injurious to properties and improvements in the vicinity.

   The proposed use will not be detrimental to the public health, safety or welfare, nor materially injurious to properties or improvements in the vicinity, as it will comply conditions of approval specifically developed for the project.

NOW, THEREFORE, BE IT RESOLVED that the Planning Commission of the City of Arroyo Grande hereby approves Conditional Use Permit 23-001 as set forth in Exhibit “B”, attached hereto and incorporated herein by this reference, with the above findings and subject to the conditions as set forth in Exhibit "A", attached hereto and incorporated herein by this reference.

On motion by Commissioner Sackrison, seconded by Vice Chair Berlin, and by the following roll call vote, to wit:

AYES: Sackrison, Berlin, Buchanan and Maraviglia
NOES: None
ABSENT: Roof

the foregoing Resolution was adopted this 6th day of June, 2023

_____
JAMIE MARAVIGLIA
CHAIR

ATTEST:

_____
PATRICK HOLUB
SECRETARY TO THE COMMISSION

AS TO CONTENT:

_____
BRIAN PEDROTTI
COMMUNITY DEVELOPMENT DIRECTOR

EXHIBIT 'A'
CONDITIONS OF APPROVAL
CONDITIONAL USE PERMIT 23-001
CORBETT CREEK RESTORATION PROJECT

COMMUNITY DEVELOPMENT DEPARTMENT

PLANNING DIVISION

GENERAL CONDITIONS

1. The applicant shall ascertain and comply with all Federal, State, County and City requirements as are applicable to this project.

2. The applicant shall comply with all conditions of approval for Conditional Use Permit 23-001.

3. This application shall automatically expire on June 6, 2025 unless a Lake and Streambed Alteration permit is issued by the California Department of Fish and Wildlife (CDFW). Thirty (30) days prior to the expiration of the approval, the applicant may apply for an extension of one (1) year from the original date of expiration.

4. Development shall occur in substantial conformance with the plans presented to the Planning Commission at the meeting of June 6, 2022 and marked Exhibit B**.**

5. The applicant shall agree to indemnify and defend at his/her sole expense any action brought against the City, its present or former agents, officers, or employees because of the issuance of said approval, or in any way relating to the implementation thereof, or in the alternative, to relinquish such approval. The applicant shall reimburse the City, its agents, officers, or employees, for any court costs and attorney's fees which the City, its agents, officers or employees may be required by a court to pay as a result of such action. The City may, at its sole discretion, participate at its own expense in the defense of any such action but such participation shall not relieve applicant of his/her obligations under this condition.

6. A copy of these conditions shall be incorporated into all construction documents.

7. At the time of application for construction permits, plans submitted shall show all development consistent with the approved site plan, floor plan, architectural elevations and landscape plan.

8. All conditions of this approval run with the land and shall be strictly adhered to, within the time frames specified, and in an on-going manner for the life of the project. Failure to comply with these conditions of approval may result in an immediate enforcement action. If it is determined that violation(s) of these conditions of approval have occurred, or are occurring, this approval may be revoked pursuant to Development

Code Section 16.08.100.

GENERAL CONDITIONS

9. All project improvements shall be designed and constructed in accordance with the most recent version of the City of Arroyo Grande Standard Specifications and Engineering Standards.

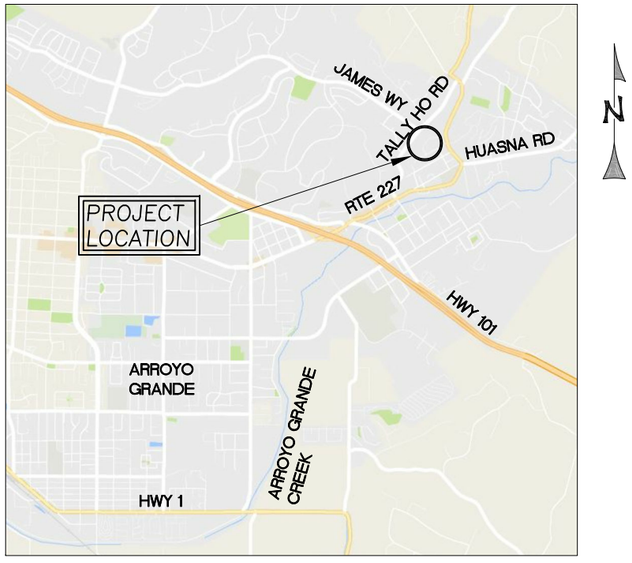
10. Preserve existing survey monuments and vertical control benchmarks in compliance with Standard Specifications Section 5-1.26A.

11. The applicant shall be responsible for obtaining an encroachment permit for all work within a public right-of-way (City, County and/or Caltrans).

EXHIBIT B

TALLY HO
STREAM STABILIZATION PROJECT

100% DESIGN SUBMITTAL



VICINITY MAP
N.T.S. (GOOGLE)

REGIONAL MAP
N.T.S. (GOOGLE)

GENERAL NOTES

1. TOPOGRAPHIC MAPPING WAS PERFORMED BY:
   SWANSON HYDROLOGY + GEOMORPHOLOGY
   500 SEABRIGHT AVENUE, SUITE 202
   SANTA CRUZ, CA 95062
   SURVEY DATE: NOVEMBER 15, 2007.

   WATERWAYS CONSULTING, INC.
   509A SWIFT STREET
   SANTA CRUZ, CA 95060
   SURVEY DATE: JANUARY 16, 2017 AND APRIL 20, 2023.
2. ELEVATION DATUM: AN ASSUMED ELEVATION OF 100.00' WAS ESTABLISHED AT SURVEY CONTROL POINT #1 (½"X24", IRON ROD) SHOWN ON SHT. C2.
3. BASIS OF BEARINGS: BASIS OF BEARINGS BETWEEN POINTS #1 AND #2 IS N00°00'00"E, AS SHOWN ON SHT. C2.
4. CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES WERE COMPILED FROM RECORD INFORMATION. THE LOCATION OF THESE LINES IS SUBJECT TO CHANGE, PENDING THE RESULTS OF A COMPLETE BOUNDARY SURVEY.
6. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2018 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
7. THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO TECHNICAL SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

**** CALL BEFORE YOU DIG ****

CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2600

ABBREVIATIONS

AVG.	AVERAGE
CC	CONCRETE
CMP	CORRUGATED METAL PIPE
CY	CUBIC YARDS
DIA.	DIAMETER
E	EXISTING
EG	EXISTING GROUND
ELEV.	ELEVATION
ESL	ENCAPSULATED SOIL LIFT
ESM	ENGINEERED STREAM BED MATERIAL
DI	DRAINAGE INLET
FG	FINISHED GRADE
FT	FEET
HWY	HIGHWAY
INV	INVERT
MIN.	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OHW	ORDINARY HIGH WATER
RC	RELATIVE COMPACTION
RD	ROAD
RSP	ROCK SLOPE PROTECTION
RTE	ROUTE
SHT.	SHEET
SPK	SPIKE
SQ.FT.	SQUARE FOOT
T	TREE
T.B.D.	TO BE DETERMINED
TYP.	TYPICAL
UNK	UNKNOWN
WSE	WATER SURFACE ELEVATION
WY	WAY
YR	YEAR

TREE SPECIES

O	OAK
UNK	UNKNOWN
W	WILLOW

SHEET INDEX

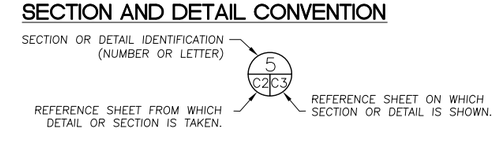
C1 COVER SHEET
C2 SITE OVERVIEW AND ACCESS PLAN
C3 GRADING PLAN AND PROFILE
C4 SECTIONS AND DETAILS
C5 DIVERSION AND EROSION CONTROL PLAN
C6 NOTES

PROJECT DESCRIPTION

THESE DRAWING PROVIDE 100% DESIGN LEVEL DETAILS FOR THE STABILIZATION OF A HEADCUT ALONG CORBETT CREEK IN ARROYO GRANDE, CALIFORNIA.

WORK CONSISTS OF LOWERING THE CHANNEL BED TO REDUCE THE DROP OVER THE HEADCUT, STABILIZING THE REMAINING DROP BY INSTALLING A BOULDER WEIR, AND PROTECTING THE LOWERED CHANNEL BED AND BANKS UPSTREAM OF THE BOULDER WEIR USING A COMBINATION OF ENGINEERED STREAMBED MATERIAL AND FABRIC ENCAPSULATED SOIL LIFTS. DISTURBED AREAS WILL BE REVEGETATED WITH A NATIVE SEED MIX AND LIVE WILLOW STAKES.

SECTION AND DETAIL CONVENTION



WATERWAYS CONSULTING INC.
509A SWIFT ST.
SANTA CRUZ, CA 95060
PH:(831)421-9291 // FAX:(888)819-6847
WWW.WATWAYS.COM

5/4/23
DATE

BRENT M. ZACHARIA
REGISTERED PROFESSIONAL ENGINEER
No. 72809
Exp. 06-30-24
CIVIL
STATE OF CALIFORNIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS
RESOURCE CONSERVATION
DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

COVER SHEET

TALLY HO STREAM
STABILIZATION PROJECT
100% DESIGN SUBMITTAL

DESIGNED BY: BZ/JH
DRAWN BY: DH
CHECKED BY: BZ/MW
DATE: 5/4/2023
JOB NO.: 07-625

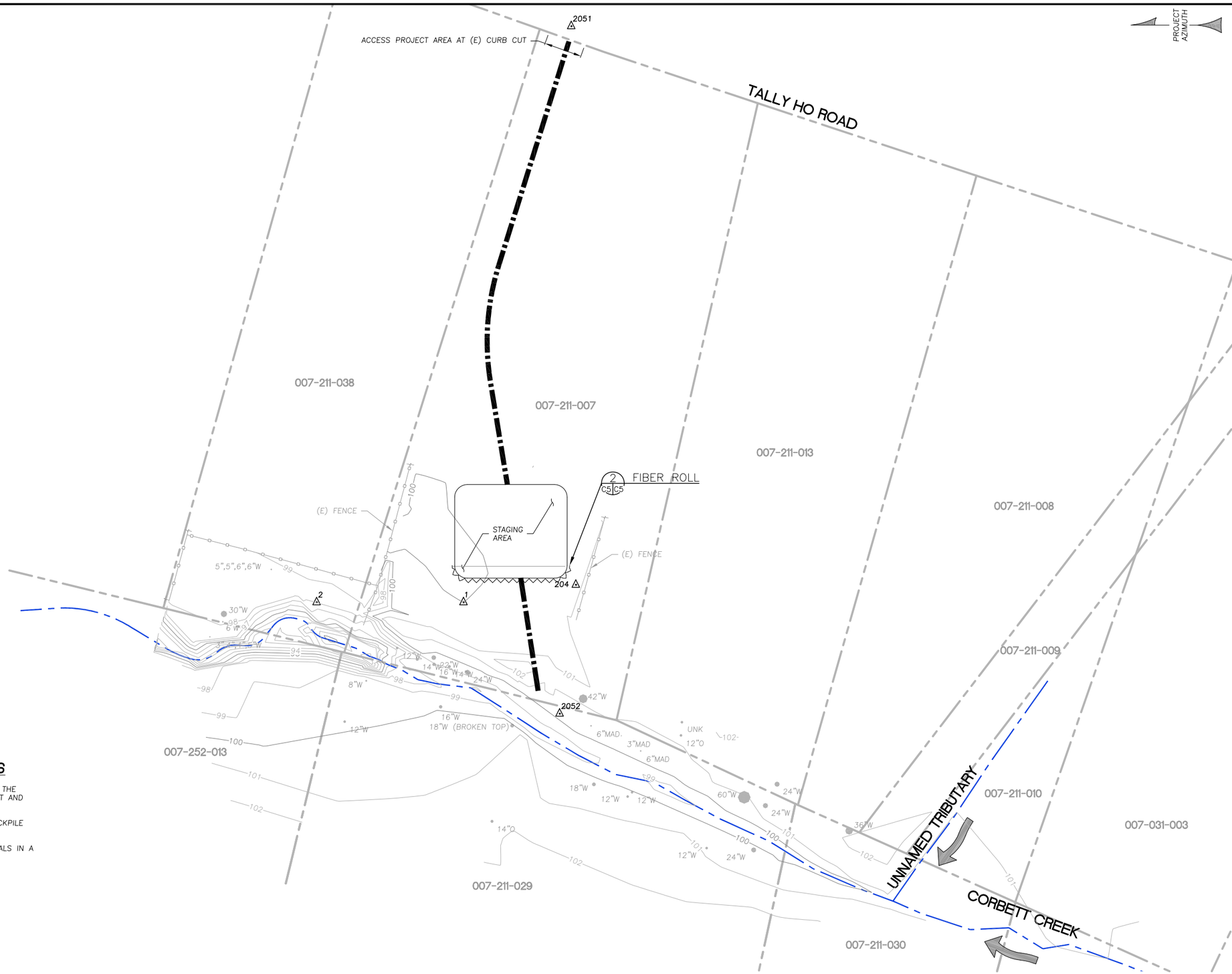
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

LEGEND

- EXISTING CONTOURS
- PARCEL BOUNDARY
- EXISTING FENCE
- TEMPORARY ACCESS ROUTE
- FIBER ROLL
- SURVEY CONTROL POINT
- EXISTING TREE (SIZE AND TYPE)

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESC.
1	5000.00	5000.00	100.00	REBAR
2	5057.96	5000.00	98.35	REBAR
204	4955.65	5006.90	100.63	REBAR
2051	4957.46	5227.29	104.78	MAG-NAIL
2052	4962.06	4956.04	100.16	REBAR



ACCESS AND STAGING AREA NOTES

1. USE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE DRAWINGS. STOCKPILE MATERIALS WITHIN AN EXISTING FLAT AND PREVIOUSLY DISTURBED AREA.
2. CONTAIN THE DOWNSLOPE PERIMETER OF STAGING OR STOCKPILE AREAS WITH SILT FENCE.
3. STORE, MAINTAIN AND REFUEL ALL EQUIPMENT AND MATERIALS IN A DESIGNATED PORTION OF THE STAGING AREA.

SITE OVERVIEW AND ACCESS PLAN

SCALE: 1" = 20'

WATERWAYS CONSULTING INC.
509A SWIFT ST.
SANTA CRUZ, CA 95060
PH:(831)421-9291 // FAX:(888)819-6847
WWW.WATWAYS.COM

5/4/23 DATE

PROFESSIONAL ENGINEER BRENT M. ZACHARIA No. 72809 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA REGISTERED

BRENT M. ZACHARIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

SITE OVERVIEW AND ACCESS PLAN

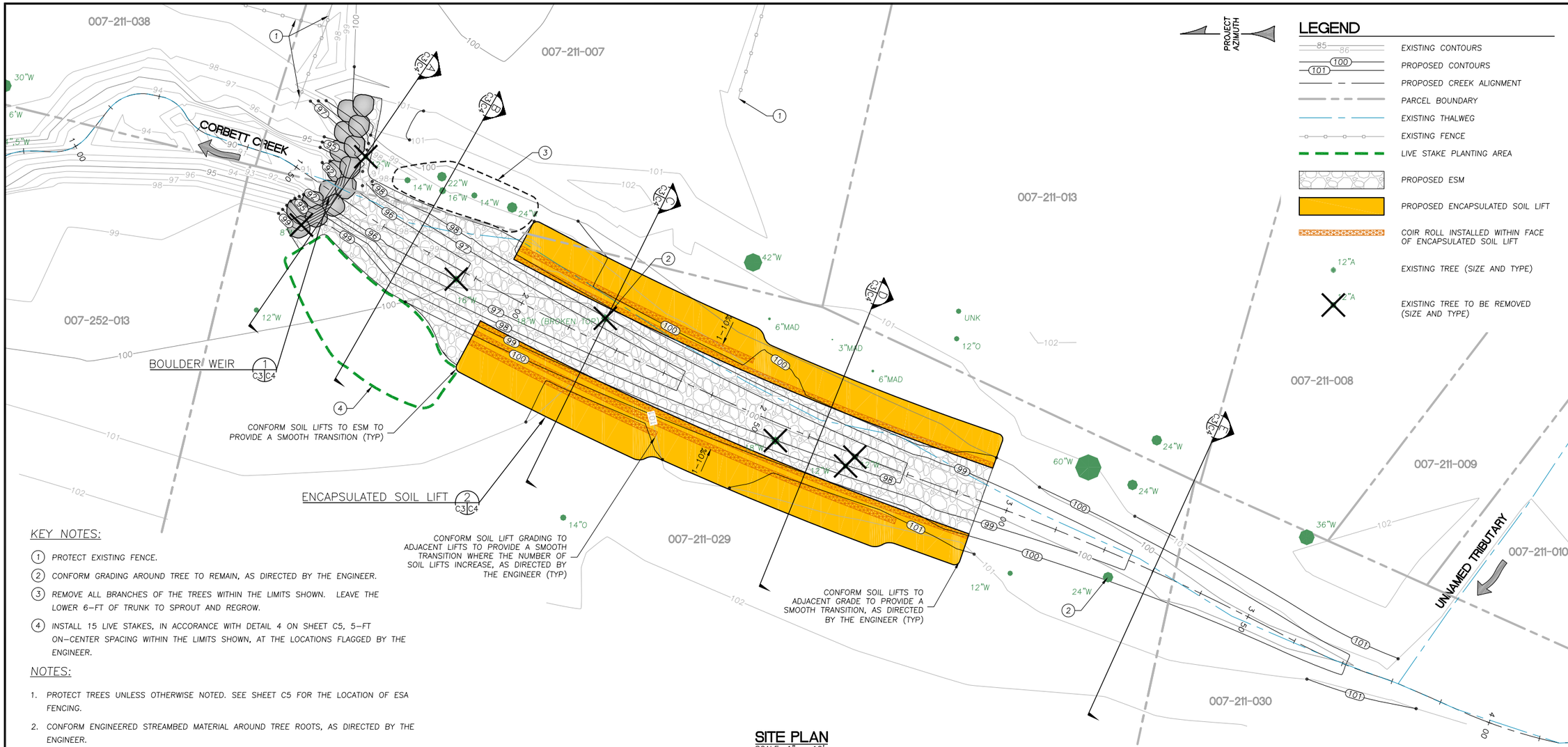
TALLY HO STREAM STABILIZATION PROJECT
100% DESIGN SUBMITTAL

DESIGNED BY:	BZ/JH
DRAWN BY:	DH
CHECKED BY:	BZ/MW
DATE:	5/4/2023
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

0 1"

C2



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED CREEK ALIGNMENT
- PARCEL BOUNDARY
- EXISTING THALWEG
- EXISTING FENCE
- LIVE STAKE PLANTING AREA
- PROPOSED ESM
- PROPOSED ENCAPSULATED SOIL LIFT
- COIR ROLL INSTALLED WITHIN FACE OF ENCAPSULATED SOIL LIFT
- EXISTING TREE (SIZE AND TYPE)
- EXISTING TREE TO BE REMOVED (SIZE AND TYPE)

KEY NOTES:

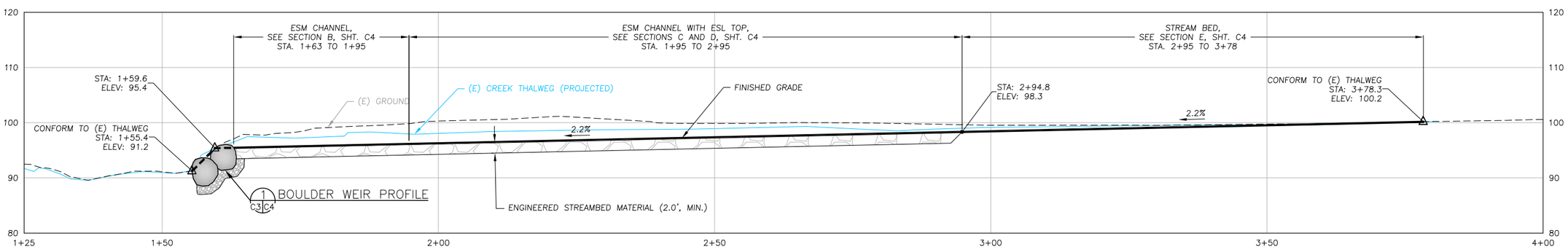
1. PROTECT EXISTING FENCE.
2. CONFORM GRADING AROUND TREE TO REMAIN, AS DIRECTED BY THE ENGINEER.
3. REMOVE ALL BRANCHES OF THE TREES WITHIN THE LIMITS SHOWN. LEAVE THE LOWER 6-FT OF TRUNK TO SPROUT AND REGROW.
4. INSTALL 15 LIVE STAKES, IN ACCORANCE WITH DETAIL 4 ON SHEET C5, 5-FT ON-CENTER SPACING WITHIN THE LIMITS SHOWN, AT THE LOCATIONS FLAGGED BY THE ENGINEER.

NOTES:

1. PROTECT TREES UNLESS OTHERWISE NOTED. SEE SHEET C5 FOR THE LOCATION OF ESA FENCING.
2. CONFORM ENGINEERED STREAMBED MATERIAL AROUND TREE ROOTS, AS DIRECTED BY THE ENGINEER.
3. ACCESS AND WORK SHALL ONLY OCCUR ON PARCELS 007-211-007, 007-211-029, AND 007-211-030.

SITE PLAN

SCALE: 1" = 10'



CHANNEL PROFILE

SCALE: 1" = 10'

WATERWAYS CONSULTING INC.
509A SWIFT ST.
SANTA CRUZ, CA 95060
PH:(831)421-9291 // FAX:(888)819-6847
WWW.WATWAYS.COM

DATE 5/4/23

REGISTERED PROFESSIONAL ENGINEER BRENT M. ZACHARIA No. 72809 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA

BRENT M. ZACHARIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

GRADING PLAN AND PROFILE

TALLY HO STREAM STABILIZATION PROJECT
100% DESIGN SUBMITTAL

DESIGNED BY:	BZ/JH
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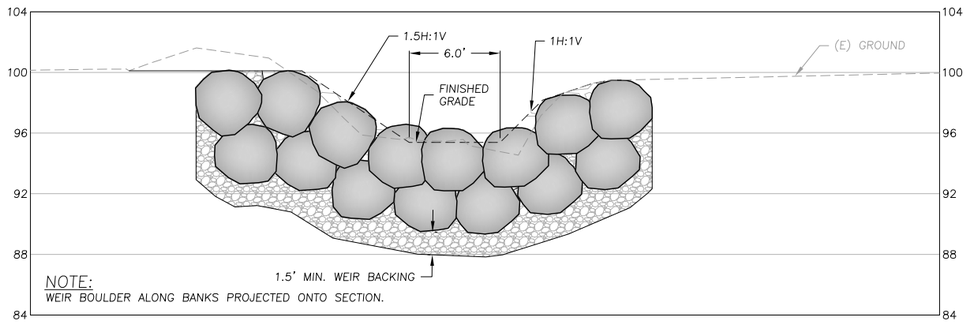
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

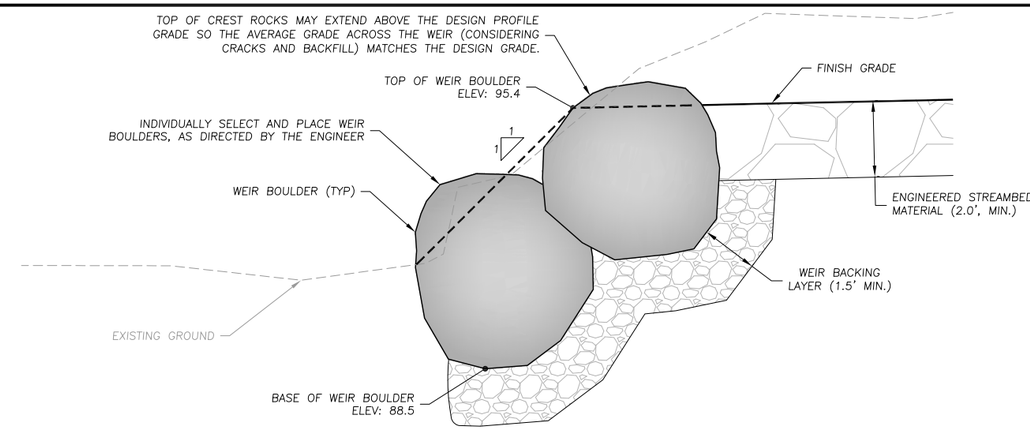
0 1"

C3



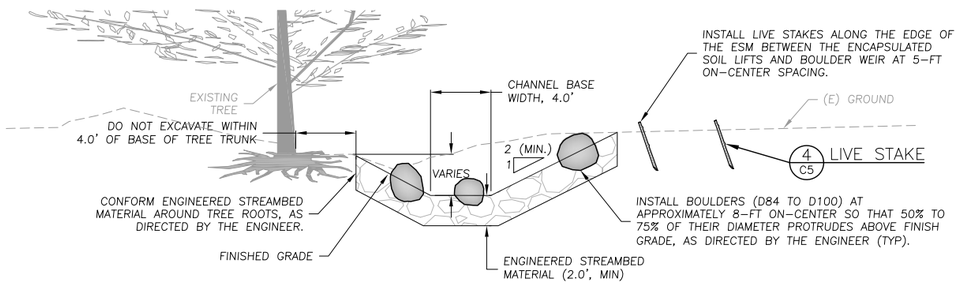
BOULDER WEIR SECTION - STA. 1+60 (A / C3|C4)

SCALE: 1" = 5'



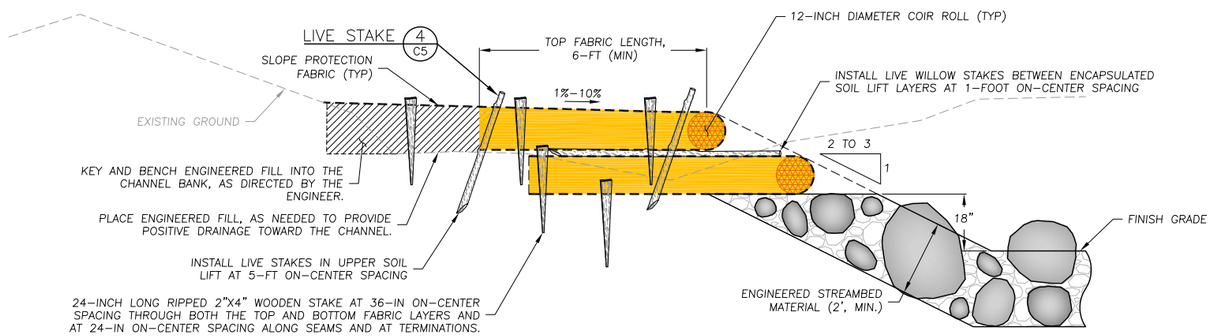
BOULDER WEIR PROFILE (1 / C3|C4)

SCALE: 1" = 2'



TYPICAL ESM CHANNEL SECTION (B / C3|C4)

SCALE: 1" = 5'

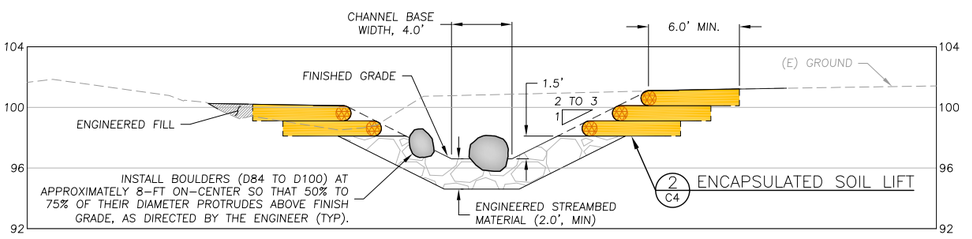


ENCAPSULATED SOIL LIFT NOTES:

1. ENCAPSULATED SOIL LIFT DESIGNS ARE SHOWN CONCEPTUALLY DUE TO THE INHERENT TOPOGRAPHIC VARIABILITY. THE DESIGN REQUIRES THAT THE ENGINEER OBSERVE CONSTRUCTION TO ENSURE THE INTENT OF THE DESIGN IS ACHIEVED.
2. WRAP SOIL LIFTS WITH 100% BIODEGRADABLE SLOPE PROTECTION FABRIC USING THE DOUBLE LAYER "NORTH AMERICAN GREEN BIONET C700BN" OR APPROVED EQUIVALENT.
3. PREPARE SUBGRADE BY BREAKING DOWN DIRT CLODS IN EXCESS OF 2-INCHES IN DIAMETER AND GRADING LEVEL BEFORE PLACING FABRIC AND INSTALLING THE BASE LIFT. OBTAIN ENGINEER'S APPROVAL OF SUBGRADE PRIOR TO PLACEMENT OF BASE LIFTS.
4. LAYOUT FABRIC ENSURING THERE IS ENOUGH FABRIC EXTENDED BEYOND THE FACE OF THE LIFT TO WRAP THE SOIL LIFT AND ANY GRADED AREA EXTENDING INTO THE CHANNEL BANK. SPREAD THE BOTTOM LAYER OF FABRIC TO REMOVE WRINKLES AND FOLDS AND ANCHOR THE BOTTOM FABRIC TO THE GROUND. BEGIN PLACING FABRIC AT THE UPSTREAM END OF EACH LIFT AND PLACE DOWNSTREAM SECTIONS OF FABRIC A MINIMUM OF 18 INCHES OVER THE UPSTREAM SEGMENTS OF FABRIC TO PROVIDE OVERLAP. THIS WILL RESULT IN THE FABRIC BEING "SHINGLED" IN THE DOWNSTREAM DIRECTION AFTER IT IS FOLDED BACK OVER THE TOP OF THE SOIL LIFT.
5. PLACE THE COIR ROLL ALONG THE FACE OF EACH LIFT WHERE SHOWN ON THE SITE PLAN. ABUT ENDS OF ADJACENT COIR ROLLS TIGHTLY TO ENSURE THERE IS NO VOID SPACE BETWEEN ADJOINING ROLLS. STAKE THE COIR ROLL IN PLACE TO ENSURE IT DOES NOT MOVE WHEN COMPACTING THE SOIL LIFT.
6. BACKFILL THE SOIL LIFT UP TO THE SPECIFIED HEIGHT IN LOOSE LIFTS NOT EXCEEDING 8 INCHES THICKNESS. COMPACT BACKFILL TO 90% MINIMUM RELATIVE COMPACTION, PLACE SEED AS DESCRIBED IN STEP 7 AND COVER THE COMPACTED BACKFILL BY FOLDING THE FABRIC OVER THE COIR ROLL AND TOP OF THE LIFT AND ANCHOR THE FABRIC IN PLACE. ENSURE THE UPSTREAM AND DOWNSTREAM ENDS OF EACH LIFT ARE FULLY ENCASED WITHIN THE FABRIC AND THAT THE FABRIC IS ANCHORED IN PLACE, AS DIRECTED BY THE ENGINEER.
7. PLACE SEED ON THE PORTION OF EACH ENCAPSULATED SOIL LIFT THAT WILL REMAIN EXPOSED (I.E. WILL NOT BE COVERED BY ANOTHER SOIL LIFT) AFTER CONSTRUCTION, PRIOR TO FOLDING THE FABRIC OVER THE TOP OF THE SOIL LIFT AND SECURING.
8. REPEAT STEPS 4 THROUGH 7 FOR EACH SUBSEQUENT LIFT AND STEP 3 FOR EACH BASE LIFT.
9. PLACE LIVES STAKES HORIZONTALLY BETWEEN LIFTS AT EACH LOCATION WHERE TWO OR MORE LIFTS WILL BE CONSTRUCTED,
10. THE MINIMUM SOIL LIFT DEPTH (INTO THE SLOPE) IS 6 FEET.
11. THE MAXIMUM SOIL LIFT THICKNESS (HEIGHT) AT THE FACE OF THE LIFT ADJACENT TO THE COIR ROLL IS 12 INCHES.
12. THE MAXIMUM SOIL LIFT THICKNESS (HEIGHT) AT THE BACK OF THE UPPER LIFT (AWAY FROM THE CHANNEL) IS 18 INCHES.
13. THE MAXIMUM UPPER SOIL LIFT THICKNESS (HEIGHT) AT THE BACK OF THE LIFT TO CONFORM TO EXISTING GROUND MAY BE INCREASED FROM 18 TO 24 INCHES, PENDING APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
14. CONFORM ENCAPSULATED SOIL LIFTS TO THE ENGINEERED STREAMBED MATERIAL, TREES TO REMAIN AND EXISTING GRADES AT THE DIRECTION OF THE ENGINEER.

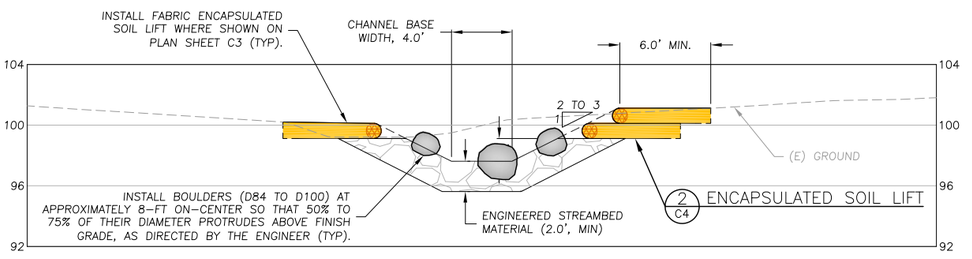
ENCAPSULTATED SOIL LIFT DETAIL (2 / C3,C4,C5|C4)

SCALE: 1" = 2'



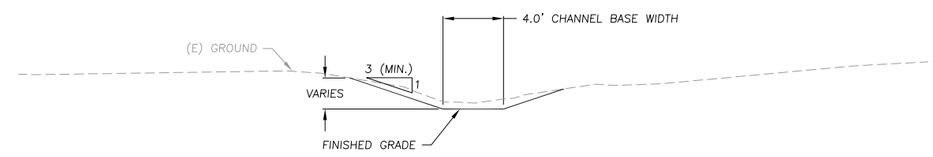
ESM CHANNEL WITH ESL TOP SECTION - STA. 2+16 (C / C3|C4)

SCALE: 1" = 5'



ESM BOTTOM WITH ESL BANKS SECTION - STA. 2+62 (D / C3|C4)

SCALE: 1" = 5'



TYPICAL STREAM BED SECTION (E / C3|C4)

SCALE: 1" = 5'

SECTIONS

WATERWAYS CONSULTING INC.
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5/4/23 DATE

BRENT M. ZACHARIA
PROFESSIONAL ENGINEER
No. 72809
Exp. 06-30-24
CIVIL
STATE OF CALIFORNIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

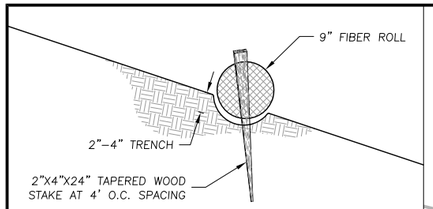
SECTIONS AND DETAILS

TALLY HO STREAM STABILIZATION PROJECT
100% DESIGN SUBMITTAL

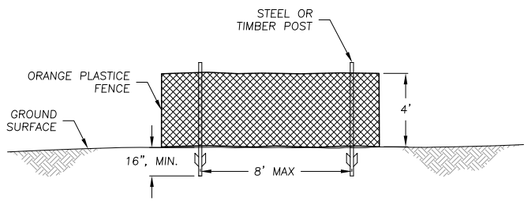
DESIGNED BY:	BZ/JH
DRAWN BY:	DH
CHECKED BY:	BZ/MW
DATE:	5/4/2023
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

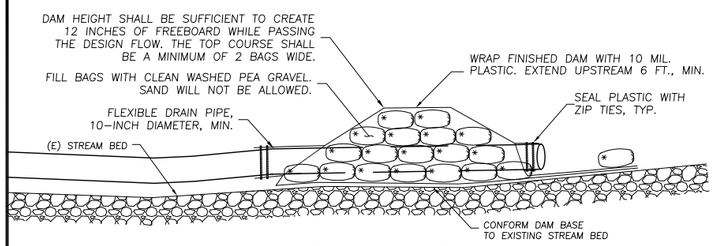
C4



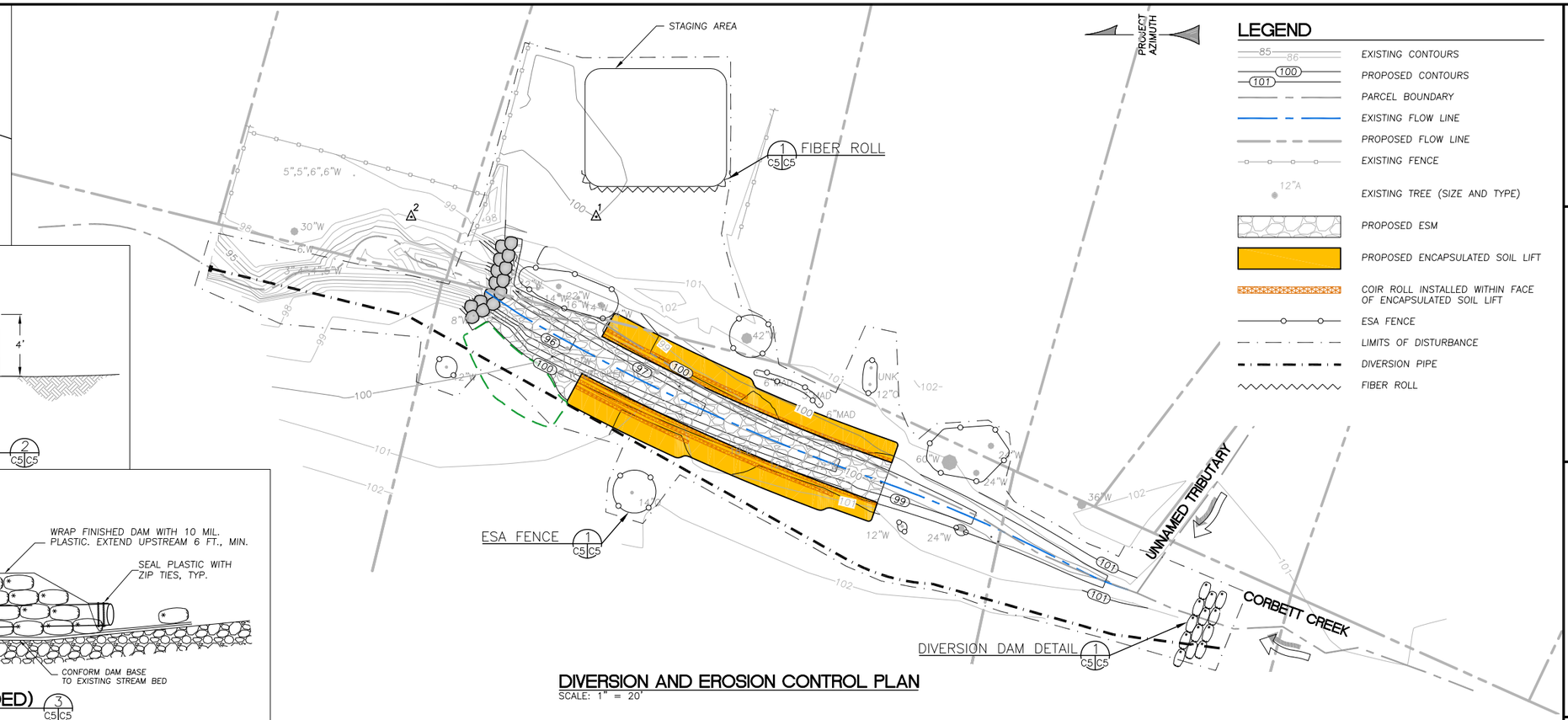
FIBER ROLL DETAIL (1 / C2,C5|C5)
SCALE: 1" = 1'



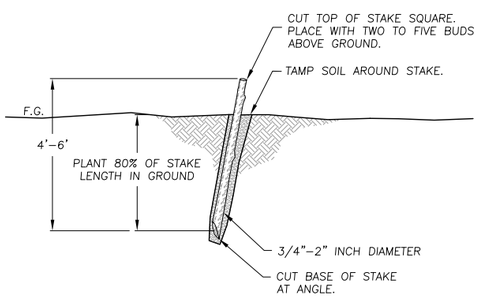
ESA FENCE DETAIL (2 / C5|C5)
SCALE: 1"=4'



DIVERSION DAM DETAIL (AS NEEDED) (3 / C5|C5)
SCALE: 1"=6'



DIVERSION AND EROSION CONTROL PLAN
SCALE: 1" = 20'



LIVE STAKE DETAIL (4 / C3,C4|C5)
SCALE: 1" = 2'

DUST CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS DUST CONTROL, THROUGHOUT THE CONSTRUCTION, IN ACCORDANCE WITH THE PERMIT CONDITIONS OF APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULAR CLEANING OF ALL MUD, DIRT, DEBRIS, ETC., FROM ANY AND ALL ADJACENT ROADS AND SIDEWALKS, AT LEAST ONCE EVERY 24 HOURS WHEN OPERATIONS ARE OCCURRING.
2. ALL DISTURBED AREAS, INCLUDING UNPAVED ACCESS ROADS OR STORAGE PILES, NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER, CHEMICAL STABILIZER/SUPPRESSANT, OR VEGETATIVE GROUND COVER.
3. ALL GROUND–DISTURBING ACTIVITIES (E.G., CLEARING, GRUBBING, SCRAPING, AND EXCAVATION) SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PRE–SOAKING.
4. ALL MATERIALS TRANSPORTED OFFSITE SHALL BE COVERED OR EFFECTIVELY WETTED TO LIMIT DUST EMISSIONS.
5. FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACES OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER OR CHEMICAL STABILIZER/SUPPRESANT.
6. ONSITE VEHICLE SPEED ON UNPAVED SURFACES SHALL BE LIMITED TO 5 MPH.
7. DISTURBED AREAS SHALL BE SEEDED PRIOR TO OCTOBER 15TH OR EARLIER AS REQUIRED BY THE APPLICABLE PERMIT CONDITIONS.

TABLE 1: SEED MIX

BOTANICAL NAME	COMMON NAME	APPLICATION (LBS/ACRE)
POA SECUNDA	SANDBERG BLUEGRASS	8
BROMUS CARINATUS	CALIFORNIA BROME	8
ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS	SLENDER WHEATGRASS	8
LEYMUS TRITICOIDES	CREEPING WILD RYE	8
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	8
BACCHARIS SALICIFOLIA	MULE FAT	3
LUPINUS BICOLOR	MINATURE LUPINE	2
ACHELLIA MILLEFOLIUM	COMMON YARROW	2
ESCHSHOLZIA CALIFORNICA	CALIFORNIA POPPY	2
ARTEMESIA DOUGLASIANA	MUGWORT	4
	TOTAL	53

EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN SHOWN IS INTENDED FOR THE SUMMER CONSTRUCTION SEASON (APRIL 15TH TO OCTOBER 15TH). IF THE DRAINAGE FEATURES SHOWN ON THESE DRAWINGS ARE NOT COMPLETED AND DISTURBED AREAS STABILIZED BY OCTOBER 1ST, CONSULT THE ENGINEER FOR ADDITIONAL RAINY SEASON EROSION CONTROL MEASURES.
2. PRIOR TO COMMENCING WORK, PROTECT AREAS TO REMAIN UNDISTURBED WITH ESA FENCING, AS SHOWN ON THE DRAWINGS. ADDITIONAL FENCING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
3. UTILIZE ONLY THE APPROVED HAUL ROADS AND ACCESS POINTS (AS SHOWN ON THE DRAWINGS) FOR TRANSPORT OF MATERIALS AND EQUIPMENT.
4. BETWEEN OCTOBER 15 AND APRIL 15, PROTECT EXPOSED SOIL FROM EROSION AT ALL TIMES. DURING CONSTRUCTION, SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT, STABILIZE ALL EXPOSED SOIL AGAINST EROSION.
5. MAINTAIN A STANDBY CREW FOR EMERGENCY WORK AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). STOCKPILE NECESSARY MATERIALS AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES.
6. CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING OPERATIONS.
7. INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION.
8. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT THE DISCHARGE OF EARTHEN MATERIALS TO THE CREEK FROM DISTURBED AREAS UNDER CONSTRUCTION AND FROM COMPLETED CONSTRUCTION AREAS.
9. INSTALL ALL PROTECTIVE DEVICES AT THE END OF EACH WORK DAY WHEN THE FIVE–DAY RAIN PROBABILITY EQUALS OR EXCEEDS 50 PERCENT AS DETERMINED FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE: WWW.SRH.NOAA.GOV.
10. AFTER EACH RAINSTORM, REMOVE ALL SILT AND DEBRIS FROM CHECK BERMS AND SEDIMENT CONTROL DEVICES.
11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED, OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED, AT THE DISCRETION OF THE ENGINEER.
12. MAINTAIN ALL EROSION CONTROL DEVICES AND MODIFY THEM AS SITE PROGRESS DICTATES.
13. MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
14. CLEAN DAILY ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET.
15. CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
16. BE FAMILIAR WITH THE CONDITIONS OF APPROVAL OF ALL REQUIRED PROJECT PERMITS AND IMPLEMENT ALL REQUIRED BMP'S PRIOR TO COMMENCING SITE DISTURBING ACTIVITIES.

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5/4/23 DATE

PROFESSIONAL ENGINEER BRENT M. ZACHARIA No. 72809 Exp. 06-30-24 CIVIL STATE OF CALIFORNIA

BRENT M. ZACHARIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

DIVERSION AND EROSION CONTROL PLAN

TALLY HO STREAM STABILIZATION PROJECT
100% DESIGN SUBMITTAL

DESIGNED BY:	BZ/JH
DRAWN BY:	DH
CHECKED BY:	BZ/MW
DATE:	5/4/2023
JOB NO.:	07–625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

GENERAL NOTES

1. NOTIFY THE ENGINEER AT LEAST 96 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS, AS NECESSARY TO ENSURE PROPER INSTALLATION PROCEDURES.

2. EXISTING UNDERGROUND UTILITY LOCATIONS:

   A. CALL UNDERGROUND SERVICE ALERT (1-800-642-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING CONSTRUCTION.

   B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.

   C. EXISTING UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM FIELD MEASUREMENTS TO ABOVE GROUND FEATURES READILY VISIBLE AT THE TIME OF SURVEY. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND DEPTH OF UNDERGROUND UTILITIES.

   D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.

   E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.

   F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

   G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WRITING.

   H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.

3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.

5. ANY TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.

6. PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.

9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOR THE PRESENCE OF CONSULTANT OR HIS OR HER EMPLOYEES OR SUB-CONSULTANTS AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REGULATORY AGENCY OR OF STATE LAW.

10. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.

11. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS WITHIN APPROVED STAGING AREAS.

12. PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS. DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR.

15. TREE DIMENSIONS: TRUNK DIAMETERS SHOWN REPRESENT DIAMETER AT BREAST HEIGHT (DBH), MEASURED IN INCHES. DBH IS MEASURED 4.5 FT ABOVE GROUND FOR SINGLE TRUNKS AND TRUNKS THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND. THE DBH FOR TREES THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND MAY BE CONSOLIDATED INTO A SINGLE DBH BY TAKING THE SQUARE ROOT OF THE SUM OF ALL SQUARED STEM DBH'S, UNLESS OTHERWISE NOTED. WHERE TREES FORK NEAR BREAST HEIGHT, TRUNK DIAMETER IS MEASURED AT THE NARROWEST PART OF THE MAIN STEM BELOW THE FORK. FOR TREES ON A SLOPE, BREAST HEIGHT IS REFERENCED FROM THE UPPER SIDE OF THE SLOPE. FOR LEANING TREES, BREAST HEIGHT IS MEASURED ON THE SIDE THAT THE TREE LEANS TOWARD. TREES WITH DBH LESS THAN 8" ARE TYPICALLY NOT SHOWN.

    12"W = 12" DBH WILLOW

16. TREE SPECIES ARE IDENTIFIED WHEN KNOWN. HOWEVER, FINAL DETERMINATION SHOULD BE MADE BY A QUALIFIED BOTANIST. REFER TO THE LEGEND FOR TREE SPECIES SYMBOLS.

17. TREE TRUNK DIMENSIONS MAY BE SHOWN OUT-OF-SCALE FOR PLOTTING CLARITY. CAUTION SHOULD BE USED IN DESIGNING NEAR TREE TRUNKS. THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED. INDIVIDUAL TREES ARE NOT TYPICALLY LOCATED WITHIN DRIPLINE CANOPY AREAS SHOWN.

18. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER SECTION 8771 OF THE PROFESSIONAL LAND SURVEYORS ACT FILED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY OF ARROYO GRANDE. COPIES OF ANY RECORD OF SURVEY OR CORNER RECORDS SHALL BE SUBMITTED TO THE CITY.

19. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

20. CULTURAL RESOURCES: IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHALL CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA.

EARTHWORK NOTES

1. GRADING SUMMARY:

TOTAL CUT VOLUME =	175 CY
TOTAL FILL VOLUME =	30 CY
OFFHAUL =	145 CY

THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED. THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS.

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.

2. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER.

3. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORN SOLELY BY THE CONTRACTOR.

4. REMOVE ALL EXCESS SOILS TO AN APPROVED DUMP SITE.

5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 19 OF THE STANDARD SPECIFICATIONS, THESE DRAWINGS, AND THE TECHNICAL SPECIFICATIONS.

6. PRIOR TO STARTING WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE BY THE ENGINEER A HAZARDOUS MATERIALS CONTROLS AND SPILL PREVENTION PLAN. THE PLAN SHALL INCLUDE PROVISIONS FOR PREVENTING HAZARDOUS MATERIALS FROM CONTAMINATING SOIL OR ENTERING WATER COURSES, AND SHALL ESTABLISH A SPILL PREVENTION AND COUNTERMEASURE PLAN.

7. UNSUITABLE SOIL OR MATERIALS, NOT TO BE INCLUDED IN THE WORK INCLUDE:

   A. ORGANIC MATERIALS SUCH AS PEAT, MULCH, ORGANIC SILT OR SOD.
   B. SOILS CONTAINING EXPANSIVE CLAYS.
   C. MATERIAL CONTAINING EXCESSIVE MOISTURE.
   D. POORLY GRADED COURSE MATERIAL, PARTICLE SIZE IN EXCESS OF 6 INCHES.
   E. MATERIAL WHICH WILL NOT ACHIEVE SPECIFIED DENSITY OR BEARING.

8. FINE GRADING ELEVATIONS, CONFORMS, AND SLOPES NOT CLEARLY SHOWN ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD TO DIRECT DRAINAGE TO THE CREEK IN A MANNER THAT SUPPORTS THE INTENT OF THE DESIGN. ALL FINAL GRADING SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

9. COMPACT ALL FILL TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY ASTM-D1557.

10. FILL MATERIAL SHALL BE SPREAD IN LIFTS OF APPROXIMATELY 8 INCHES, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED. THE MATERIALS FOR ENGINEERED FILL SHALL BE APPROVED BY A REGISTERED CIVIL ENGINEER. ANY IMPORTED MATERIALS MUST BE APPROVED BEFORE BEING BROUGHT TO THE SITE. THE MATERIALS USED SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.

11. ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL SHALL BE EITHER HORIZONTAL OR VERTICAL. ALL ORGANIC MATERIAL SHALL BE REMOVED AND THE REMAINING SURFACE SCARIFIED TO A DEPTH OF AT LEAST 12 INCHES, UNLESS DEEPER EXCAVATION IS REQUIRED BY THE ENGINEER.

DIVERSION NOTES

THE DIVERSION PLAN SHOWN IS SCHEMATIC. GENERAL REQUIREMENTS ARE PROVIDED BELOW. THE FULL REQUIREMENTS OF THE DIVERSION AND DEWATERING PLAN ARE SPECIFIED IN THE PROJECT TECHNICAL SPECIFICATIONS.

1. GENERAL
   1.1. DEWATER THE PROJECT SITE AS REQUIRED TO FACILITATE IN-STREAM CONSTRUCTION AND REDUCE POTENTIAL IMPACTS TO WATER QUALITY DOWNSTREAM OF THE PROJECT SITE.
   1.2. CONFIRM THAT A FAVORABLE LONG TERM WEATHER FORECAST (1 WEEK, MIN.) IS OBSERVED PRIOR TO PLACEMENT OF DIVERSION STRUCTURES.
   1.3. DIVERT FLOW ONLY WHEN THE DIVERSION CONSTRUCTION IS OTHERWISE COMPLETE. FOLLOWING ENGINEER'S APPROVAL OF THE COMPLETED WORK, REMOVE DIVERSION BEGINNING AT THE DOWNSTREAM LIMIT, IN AN UPSTREAM DIRECTION.

2. DIVERSION SYSTEM
   2.1. INSTALL A SEALED, TEMPORARY DIVERSION DAM CONSTRUCTED USING SAND BAGS FILLED WITH CLEAN WASHED PEA GRAVEL. THE DAM AND METHOD OF SEALING SHALL BE PLACED AT AN APPROPRIATE DEPTH TO CAPTURE SUBSURFACE STREAM FLOW, AS NEEDED TO DEWATER THE STREAMBED. THE USE OF SAND WILL NOT BE ALLOWED. NO OTHER DIVERSION METHOD SHALL BE USED WITHOUT AUTHORIZATION OF THE ENGINEER. IF AN ALTERNATE DIVERSION METHOD IS PREFERRED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL, DETAILING THE DESIRED DIVERSION METHOD.
   2.2. THE DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
   2.3. IN THE EVENT OF A SIGNIFICANT STORM FORECAST, THE CONTRACTOR SHALL BE PREPARED TO TAKE NECESSARY MEASURES TO ENSURE SAFE PASSAGE OF STORM WATER FLOW THROUGH THE PROJECT AREA, WITHOUT DAMAGE TO EXISTING STRUCTURES, OR INTRODUCTION OF EXCESSIVE SEDIMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY EROSION CONTROL B.M.P.'S.

3. DEWATERING OF CONSTRUCTION AREAS
   3.1. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY PUMPS, PIPING, FILTERS, SHORING, AND OTHER TOOLS AND MATERIALS NECESSARY FOR DEWATERING. IF A PUMPED SYSTEM IS RELIED UPON TO ENSURE DOWNSTREAM WATER QUALITY, A BACKUP PUMP OF EQUAL CAPACITY SHALL BE PROVIDED AT ALL TIMES AND THE PUMP MUST BE CONTINUOUSLY MONITORED.
   3.2. DEWATERING ACTIVITIES WHICH MAY BE REQUIRED FOR CONSTRUCTION PURPOSES SHALL COMPLY WITH WATER QUALITY STANDARDS ISSUED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.
   3.3. DISCHARGE OF WATER FROM THE DEWATERED CONSTRUCTION SITE, EITHER BY GRAVITY OR PUMPING, SHALL BE PERFORMED IN A MANNER THAT PREVENTS EXCESSIVE TURBIDITY FROM ENTERING THE RECEIVING WATERWAYS AND PREVENTS SCOUR AND EROSION OUTSIDE OF THE CONSTRUCTION SITE. PUMPED WATER SHOULD BE PRE-FILTERED WITH A GRAVEL PACK AROUND SUMPS FOR SUBSURFACE FLOWS AND A SILT FENCE AROUND PUMPS FOR SURFACE FLOW. PUMPED WATER SHALL BE DISCHARGED INTO ISOLATED LOCAL DEPRESSIONS, FILTER BAGS, SETTLING (BAKER) TANKS, OR TEMPORARY SEDIMENT BASINS, AS NECESSARY TO MEET WATER QUALITY REQUIREMENTS. WHERE WATER TO BE DISCHARGED INTO THE CREEK WILL CREATE EXCESSIVE TURBIDITY, THE WATER SHALL BE ROUTED THROUGH A SEDIMENT INTERCEPTOR OR OTHER FACILITIES TO REMOVE SEDIMENT FROM WATER.

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5/4/23 DATE

PROFESSIONAL ENGINEER BRIGHT M. ZAGHARIA No. 72809 Exp. 6-30-24 CIVIL STATE OF CALIFORNIA

BRIGHT M. ZAGHARIA

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
1203 MAIN STREET, SUITE B
MORRO BAY, CA 93442

NOTES

TALLY HO STREAM STABILIZATION PROJECT
100% DESIGN SUBMITTAL

DESIGNED BY:	BZ/JH
DRAWN BY:	DH
CHECKED BY:	BZ/MW
DATE:	5/4/2023
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

LEGEND

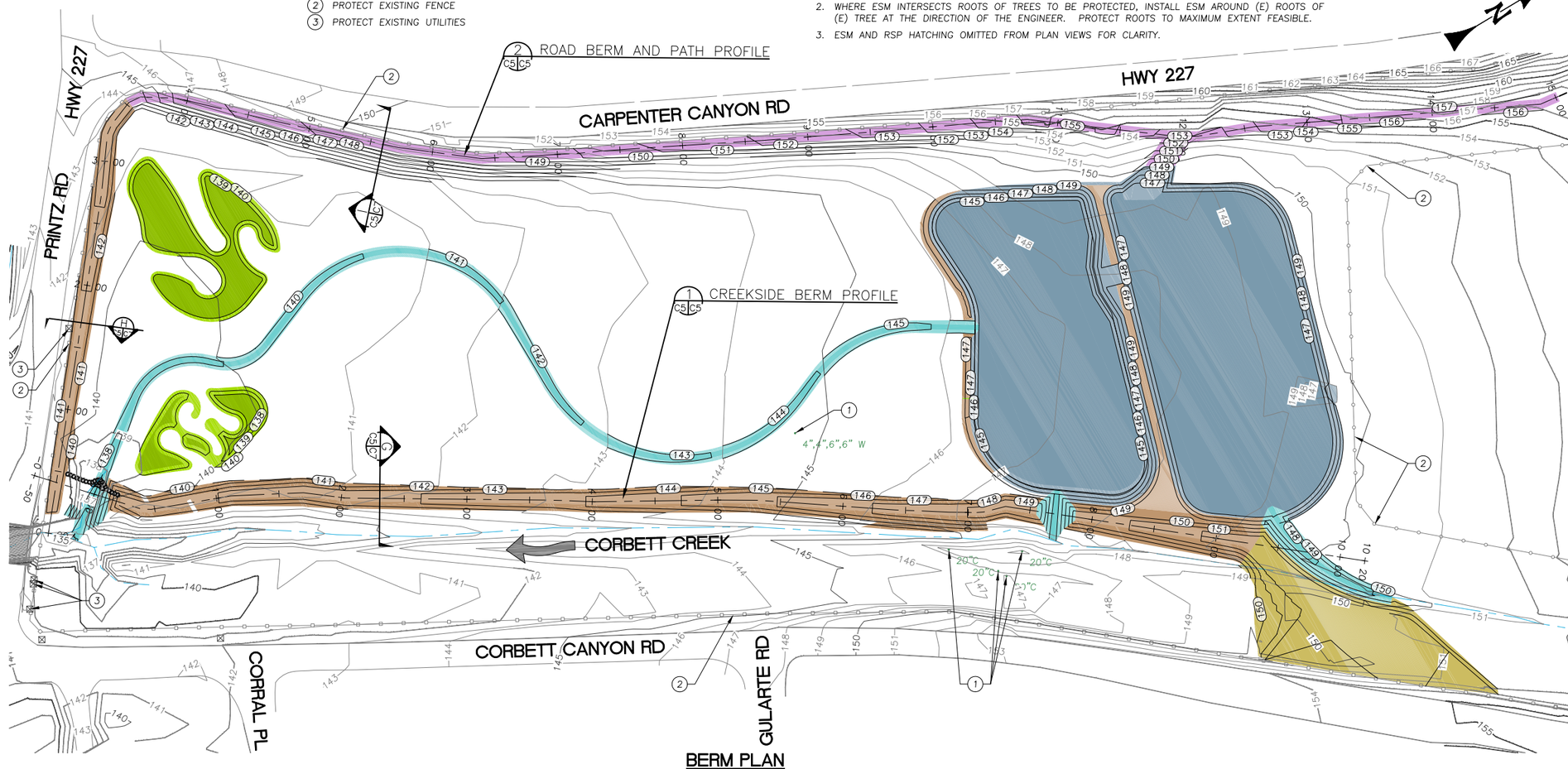
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING FLOW LINE
- PROPOSED ALIGNMENT
- EXISTING FENCE
- PROPOSED SEDIMENTATION POND SIDE SLOPES, SEE SHT. C3
- PROPOSED SEDIMENTATION POND BOTTOM, SEE SHT. C3
- PROPOSED CHANNEL SIDE SLOPES
- PROPOSED CHANNEL BOTTOM
- PROPOSED HABITAT POND SIDE SLOPES, SEE SHT. C4
- PROPOSED HABITAT POND BOTTOM, SEE SHT. C4
- PROPOSED TOP OF BERM
- PROPOSED BERM SIDE SLOPES
- PROPOSED PLUG
- PROPOSED PATH
- 12"A EXISTING TREE (SIZE AND TYPE)
- 12"A EXISTING TREE TO BE REMOVED (SIZE AND TYPE)

KEY NOTES:

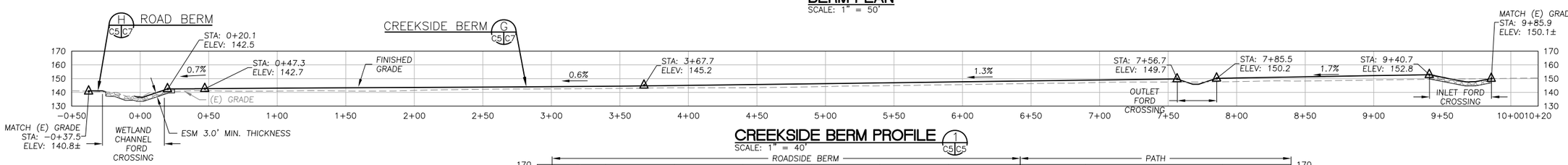
1. PROTECT EXISTING TREE
2. PROTECT EXISTING FENCE
3. PROTECT EXISTING UTILITIES

NOTES:

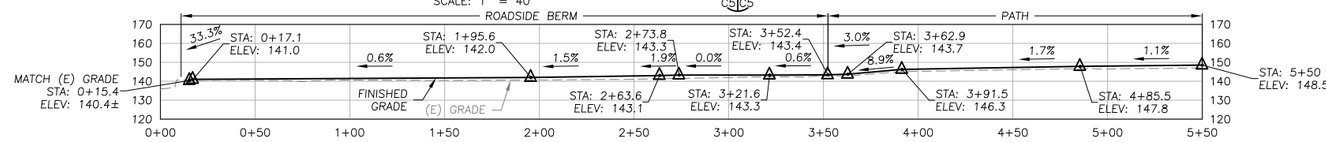
1. PROTECT TREES UNLESS OTHERWISE NOTED.
2. WHERE ESM INTERSECTS ROOTS OF TREES TO BE PROTECTED, INSTALL ESM AROUND (E) ROOTS OF (E) TREE AT THE DIRECTION OF THE ENGINEER. PROTECT ROOTS TO MAXIMUM EXTENT FEASIBLE.
3. ESM AND RSP HATCHING OMITTED FROM PLAN VIEWS FOR CLARITY.



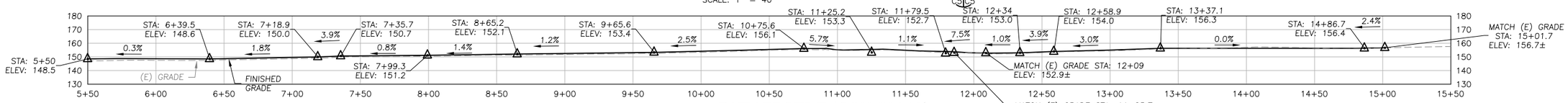
BERM PLAN
SCALE: 1" = 50'



CREEKSIDE BERM PROFILE
SCALE: 1" = 40'



ROAD BERM AND PATH PROFILE
SCALE: 1" = 40'



PATH PROFILE (CONTINUED)
SCALE: 1" = 40'

WATERWAYS CONSULTING INC.
509A SWIFT ST.
SANTA CRUZ, CA 95060
PH:(831)421-9291 // FAX:(888)819-6847
WWW.WATWAYS.COM

DRAFT
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
545 MAIN STREET, B-1
MORROW BAY, CA 93442

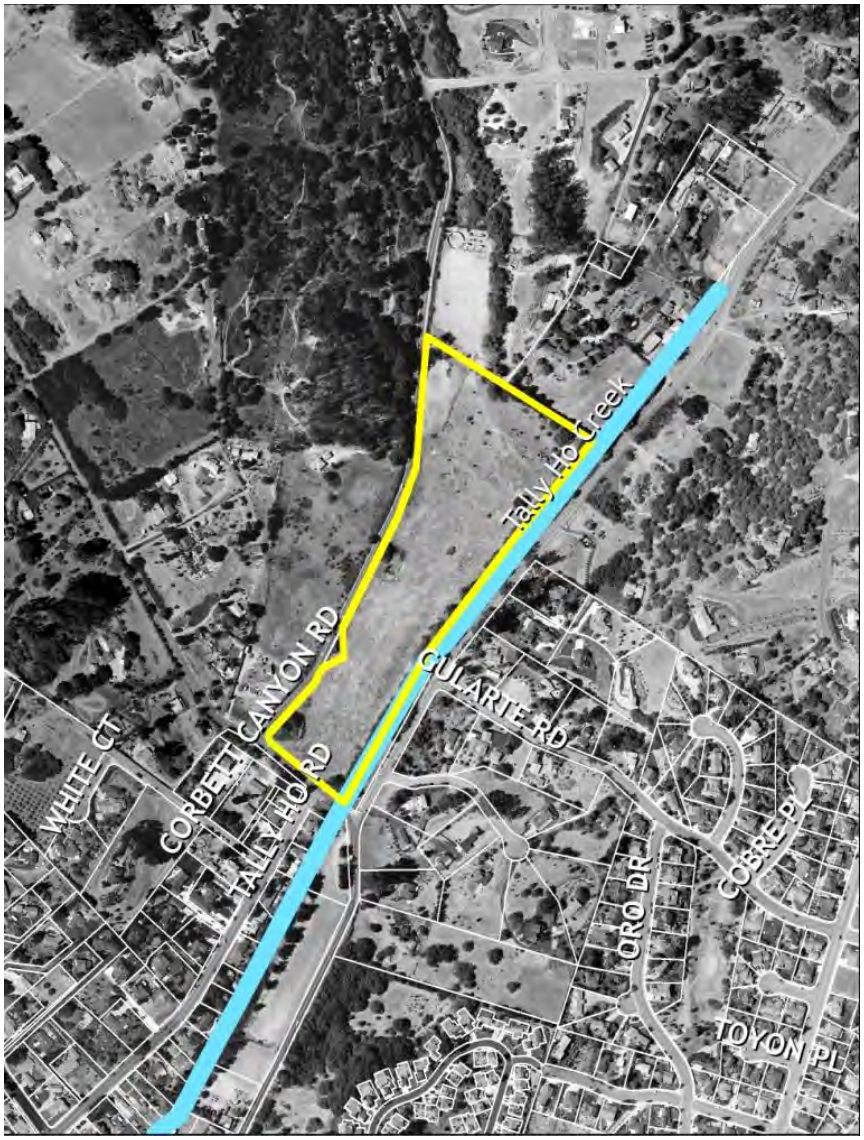
BERM PLAN AND PROFILES

CLARK PROPERTY SEDIMENTATION BASIN AND WETLANDS CREATION PROJECT
50% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	07/19/17
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION



Map of Clark Property (APN 007-791-032)

Staff Project No. 13-001

Corbett Creek Floodplain and Stream Restoration Project

March 2013

Project: Staff Project No. 13-001
Corbett Creek Floodplain and Stream Restoration Project

Lead Agency: City of Arroyo Grande

Document Availability:

City of Arroyo Grande
Community Development Department
300 East Branch Street
Arroyo Grande, CA 93420

Project Description:

The proposed project involves the acquisition by the Coastal San Luis Resource Conservation District (RCD) of a conservation easement over the 12.5-acre Clark Property located between Highway 227 (Carpenter Canyon Road) and Corbett Canyon Road and the design, permitting and construction of a floodplain/sediment detention basin on the easement property. The project also includes channel restoration of approximately nine hundred feet (900') of Corbett Creek located downstream of the Clark Property. Currently there are no identified implementation funds for the channel restoration component of the project. The City will be directly involved in the project through permitting of the floodplain/sediment detention basin design and implementation activities.

Summary Document Preparation:

Pursuant to Section 21082.1 of the California Environmental Quality Act, the City of Arroyo Grande (the City) has independently reviewed and analyzed the Initial Study and Mitigated Negative Declaration for the proposed project and finds that these documents reflect the independent judgment of the City. The City, as lead agency, also confirms that the project mitigation measures detailed in these documents are feasible and will be implemented as stated in the Mitigated Negative Declaration.

Teresa McClish, AICP
Community Development Director

Date 3/12/13

Kelly Heffernon, AICP
Associate Planner

Date 3/12/13

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Introduction

Introduction and Regulatory Guidance

The Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared by the City of Arroyo Grande (the City) to evaluate the potential environmental effects of the proposed project. This document has been prepared in accordance with the California Environmental Quality Act (CEQA), Public Resources Code §21000 *et seq*., and the State CEQA Guidelines, California Code of Regulations (CCR) §15000 *et seq*.

An Initial Study is conducted by a lead agency to determine if a project may have a significant effect on the environment [CEQA Guidelines §15063(a)]. If there is substantial evidence that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) must be prepared, in accordance with CEQA Guidelines §15064(a). However, if the lead agency determines that revisions in the project plans or proposals made by or agreed to by the applicant avoid, reduce or mitigate the potentially significant effects to a less-than-significant level, a Mitigated Negative Declaration may be prepared instead of an EIR [CEQA Guidelines §15070(b)]. The lead agency prepares a written statement describing the reasons a proposed project would not have a significant effect on the environment and, therefore, why an EIR need not be prepared. This IS/MND conforms to the content requirements under CEQA Guidelines §15071.

Trustee and Responsible Agencies

The following public agencies have legal responsibilities for carrying out or approving portions of the project. A responsible agency must actively participate in the lead agency's CEQA process, review the lead agency's CEQA document, and use that document when making a decision on the project. The responsible agency must rely on the lead agency's environmental document to prepare and issue its own findings regarding the project.

- California Department of Fish and Wildlife (CDFW) – Regulatory agency
- Regional Water Quality Control Board (RWQCB) – Regulatory agency
- US Fish and Wildlife Service (FWS) – Regulatory agency
- US Army Corps of Engineers (USACE) – Regulatory agency
- California Coastal Conservancy (CCC) – Funder, grant contractor
- California Department of Water Resources (DWR) – Funder, grant contractor
- Coastal San Luis Resource Conservation District (RCD) – Project Manager

Lead Agency

The lead agency is the public agency with primary approval authority over the proposed project. In accordance with CEQA Guidelines §15051(b)(1), "the lead agency will normally be an agency with general governmental powers, such as a city or county, rather than an agency with a single or limited purpose." The lead agency for the proposed project is the City of Arroyo Grande. The contact person for the lead agency is:

Kelly Heffernon, AICP
Associate Planner
City of Arroyo Grande
Arroyo Grande, CA 93420
(805) 473-5420

Purpose and Document Organization

The purpose of this document is to evaluate the potential environmental effects of the proposed project. Mitigation measures have been identified and incorporated into the project to eliminate any potentially significant impacts or reduce them to a less-than-significant level.

This document is organized as follows:

- Introduction
  This chapter provides an introduction to the project and describes the purpose and organization of this document.

- Project Description
  This chapter describes the reasons for the project, scope of the project, and project objectives.

- Environmental Setting, Potential Impacts and Mitigation Measures
  This chapter identifies the significance of potential environmental impacts, explains the environmental setting for each environmental issue, and evaluates the potential impacts identified in the CEQA Environmental (Initial Study) Checklist. Mitigation measures are incorporated, where appropriate, to reduce potentially significant impacts to a less-than-significant level.

- Mandatory Findings of Significance
  This chapter identifies and summarizes the overall significance of any potential impacts to natural and cultural resources, cumulative impacts, and impact to humans, as identified in the Initial Study.

- Summary of Mitigation Measures
  This chapter summarizes the mitigation measures incorporated into the project as a result of the Initial Study.

- References
  This chapter identifies the references and sources used in the preparation of this IS/MND. It also provides a list of those involved in the preparation of this document.

Summary of Findings

Section 3 of this document contains the Environmental (Initial Study) Checklist that identifies the potential environmental impacts (by environmental issue) and a brief discussion of each impact resulting from implementation of the proposed project.

In accordance with §15064(f) of the CEQA Guidelines, a Mitigated Negative Declaration shall be prepared if the proposed project will not have a significant effect on the environment after the inclusion of mitigation measures in the project. Based on the available project information and the environmental analysis presented in this document, there is no substantial evidence that, after the incorporation of mitigation measures, the proposed project would have a significant effect on the environment. It is proposed that a Mitigated Negative Declaration be adopted in accordance with the CEQA Guidelines.

Project Description

Introduction

The City of Arroyo Grande (the City) has prepared this Initial Study/Mitigated Negative Declaration (IS/MND) to evaluate the potential environmental effects of the Corbett Creek Floodplain and Stream Restoration Project (the "Project"). The Project specifically involves RCD's acquisition of a 12.5 acre conservation easement, and the design and construction of a sedimentation and flood reduction basin on the easement property. This Initial Study also includes an analysis of a proposed sediment removal and creek restoration project downstream along Corbett Creek intended to reduce flooding in that area.

Project Scope and Location

The project reach begins at the East Branch Street culvert and extends upstream approximately one (1) mile to the north end of the Clark Property (APN 007-791-032). As indicated in **Exhibit A** below, the focus of the Project area is identified as Reach 6. Additional environmental review will be performed for Reaches 1 through 5 once a scope of work is better defined. This IS/MND addresses impacts for Reaches 1 through 5 where they are foreseeable.

Exhibit A

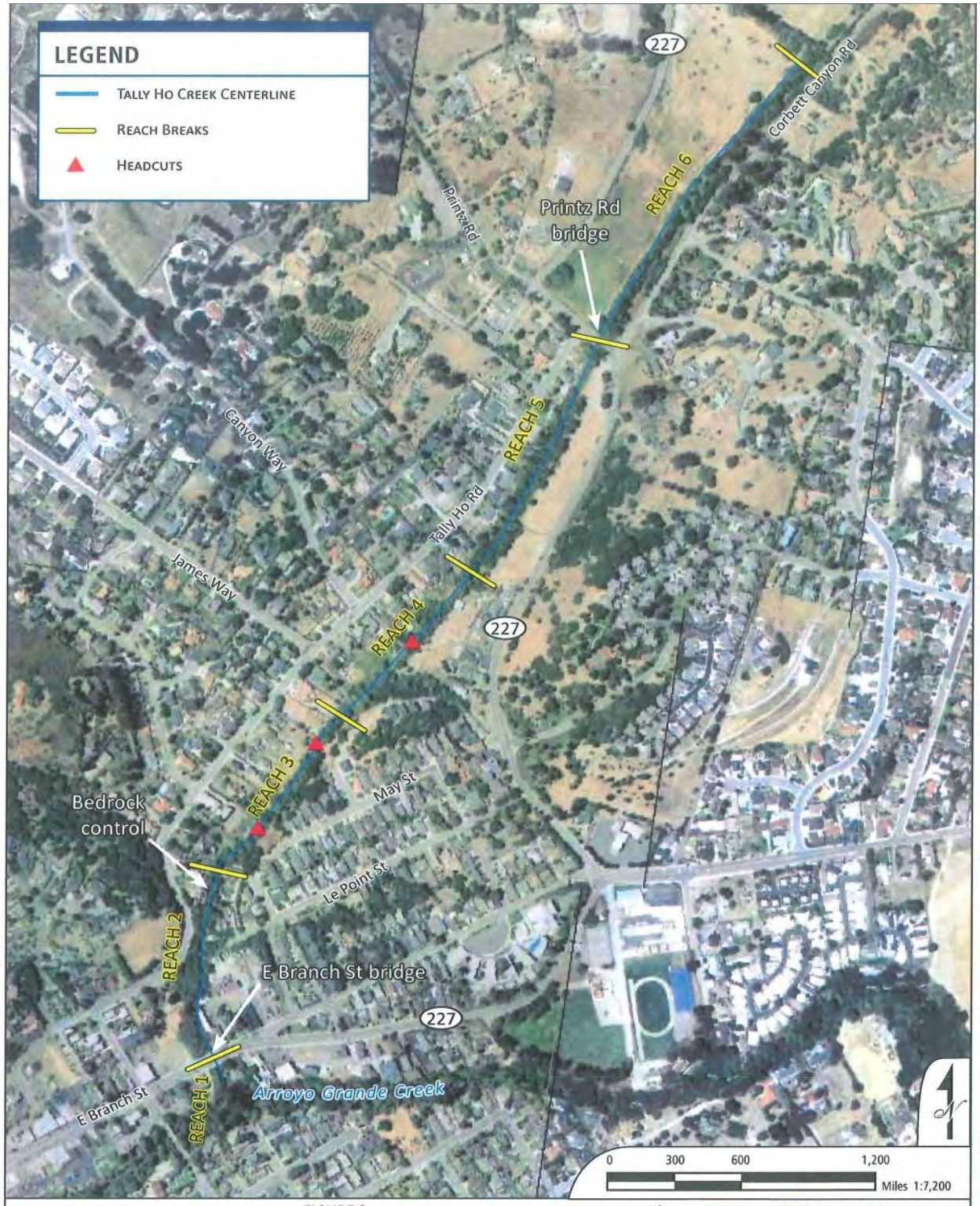

FIGURE 2
Project area map and reach overview

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Santa Cruz, CA | watways.com | Portland, OR

Background and Need for Project

A conservation easement and sedimentation reduction project is being sought on the subject property as a strategic location to carry out inter-related goals of the California Department of Water Resources Flood Protection Corridor Program and the City of Arroyo Grande's goals stated in the Conservation/Open Space and Agricultural Element of the 2001 General Plan and 2007 Creek Resources Protection Study (see **Exhibit B** below for delineation of easement area).

Exhibit B

The project consists of two components as follows:

1. The acquisition by RCD of a conservation easement in perpetuity over 12.50 acres of the 15.79-acre Clark Property at the confluence of Carpenter Creek and Corbett Creek to act as a floodplain and thereby attenuate peak flows. The conservation easement area will be used to construct a sediment basin, a floodwater detention area and a riparian habitat enhancement area. These easement acquisition and construction components of the project are identified in a technical study (Swanson Hydrology and Geomorphology, 2006) as critical to alleviating flooding on Corbett Creek and reducing stress on lower Arroyo Grande Creek through the reduction of peak flows and fine sediment. These project components have also been identified as providing an important location upon which to restore riparian and floodplain habitat within an urban wildlife corridor. Most of the engineering design, permitting, implementation and monitoring will be completed using grant funds obtained from the Department of Water Resources (DWR) through the Urban Streams Restoration Program. The estimated sediment delivery reduction provided by the site is approximately nine hundred (900) tons per year. Specific elements of the project include the following:
    - Conservation easement acquisition.
    - Sedimentation reduction through construction of active and passive sedimentation basins.
    - Restoration of floodplain and riparian habitat.

2. Design and permitting for a channel restoration project to re-establish the channel geometry of approximately nine hundred feet (900') of Corbett Creek (Reach 4) and thereby increasing flow volumes. Issues that will be considered in the design process include a four-foot (4') high head cut that is migrating upstream, sediment from uplands and developments that are clogging stormwater ditches and Corbett Creek, the increase in wetlands and marsh plants in the creek resulting in reduced creek flow volumes, and individual landowner's activities in the floodplain that cause or encourage erosion. Currently there are no identified implementation funds for this component of the project.

Other Required Public Agency Approvals

California Department of Fish and Wildlife
Regional Water Quality Control Board
US Fish and Wildlife Service
US Army Corps of Engineers

Related Projects

None.

Environmental Checklist

Project Information

Project Title:	Corbett Creek Floodplain and Stream Restoration Project (Staff Project No. 13-001)
Lead Agency Name & Address:	City of Arroyo Grande 300 East Brach Street Arroyo Grande, CA 93420
Contact Person & Telephone Number:	Kelly Heffernon, Associate Planner (805) 473-5420
Project Location:	1. APN 007-791-032 (Clark Property) 2. Corbett Creek reach (multiple properties)
Project Sponsor Name & Address:	City of Arroyo Grande 300 East Brach Street Arroyo Grande, CA 93420
General Plan Designation:	1. Low Density Residential (LD); Conservation Open Space (C/OS) 2. Low-Medium Density Residential (LM); Conservation Open Space (C/OS)
Zoning:	1. Residential Hillside (RH); Public Facility (PF) (combining designation for the portion of the property containing the creek channel) 2. Residential Suburban (RS); Single Family (SF); Village Mixed Use (VMU); Village Core Downtown (VCD); Public Facility (PF) (combining designations for portions of properties containing the creek channel)
Description of Project:	Acquisition of a conservation easement and design and implementation of a sediment reduction project for the purpose of floodplain restoration, sediment capture and peak flow attenuation along specific reaches of Corbett Creek.
Surrounding Land Uses:	The Clark Property contains a barn, equestrian trails, corals and vacant open space. Properties located downstream along the creek channel are primarily developed with single family residences with some commercially developed properties existing closer to the Village Core area. Several of the properties along this stretch are vacant.

Project Setting:

The City of Arroyo Grande is located in the southwestern portion of San Luis Obispo County, and the project site is located within the northeast section of the City of Arroyo Grande. The City is 5.45 square miles in size and is bounded by the Cities of Grover Beach and Pismo Beach to the southwest and west, and to the unincorporated County to the north, east and south. U.S. 101 extents northwest and southeast through the middle of the City, and Highway 227 runs east from U.S. 101 through the Village Area. Residential Rural and Suburban development characterize unincorporated areas to the north and southeast, and Agricultural uses dominate the Arroyo Grande Valley that extends northeast and south of the City. The project area is the reach of Corbett Creek from the northern City border to the village Commercial area in the center of the City at the confluence of Arroyo Grande Creek. The project area includes residential development adjacent to Corbett Creek except at the Village Core where there are four parcels zoned Village Core/Village Mixed Use upon which there is an existing unoccupied structure. Plans have been approved to develop a grocery store.

The topography of the City ranges from moderate and steep hillsides to the north of U.S. 101 to relatively flat parcels toward the center of town, to moderate slopes further south. The project area has varying topographical gradients with an approximate 2-5% slope northeast. Corbett Creek runs north/south to Arroyo Grande Creek. The Wilmar Avenue fault is a potentially active fault adjacent to the City, and the Pismo fault underlies portions of Arroyo Grande but is inactive and poses very low potential fault rupture hazard to the City. No known active faults underlie the project area.

The Corbett Creek reach is one of three (3) main tributaries within the City limits. The creek flows are generally perennial in the project reach with higher flows in the winter and very low flow in the summer. The area enjoys a Mediterranean climate with most precipitation occurring from November to March. Corbett Creek stream flows remain elevated in the spring as groundwater and subsurface flows contribute to the stream. The subwatershed is dominated by agriculture and rural residential land uses. At the project reach the channel is not formally channelized; however, encroachment activities by residents over the years have effectively channelized portions of the creek. Vegetation within the project area includes native and exotic grasses, native and exotic brush including blackberry and Willow trees, and ornamental landscaping on the residential properties.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact", as indicated by the checklist on the following pages:

☐ Aesthetics	☐ Agricultural Resources	☒ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Geology/Soils
☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials	☒ Hydrology/Water Quality
☐ Land Use/Planning	☐ Mineral Resources	☒ Noise
☐ Population/Housing	☐ Public Services	☐ Recreation
☐ Transportation/Traffic	☐ Utilities/Service Systems	☐ Mandatory Findings of Significance

Determination

On the basis of this initial evaluation:

☐ I find that the proposed project **COULD NOT** have a significant effect on the environment and a **NEGATIVE DECLARATION** will be prepared.

☒ I find that, although the original scope of the proposed project **COULD** have had a significant effect on the environment, there **WILL NOT** be a significant effect because revisions/mitigations to the project have been made by or agreed to by the applicant. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

☐ I find that the proposed project **MAY** have a significant effect on the environment and an **ENVIRONMENTAL IMPACT REPORT** or its functional equivalent will be prepared.

☐ I find that the proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated impact" on the environment. However, at least one impact has been adequately analyzed in an earlier document, pursuant to applicable legal standards, and has been addressed by mitigation measures based on the earlier analysis, as described in the report's attachments. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the impacts not sufficiently addressed in previous documents.

☐ I find that, although the proposed project could have had a significant effect on the environment, because all potentially significant effects have been adequately analyzed in an earlier EIR or Negative Declaration, pursuant to applicable standards, and have been avoided or mitigated, pursuant to an earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, all impacts have been avoided or mitigated to a less-than-significant level and no further action is required.

_____ _____

Kelly Heffernon, AICP Date
Associate Planner

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers, except "No Impact", that are adequately supported by the information sources cited. A "No Impact" answer is adequately supported if the referenced information sources show that the impact does not apply to the project being evaluated (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on general or project-specific factors (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must consider the whole of the project-related effects, both direct and indirect, including off-site, cumulative, construction, and operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, the checklist answers must indicate whether that impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate when there is sufficient evidence that a substantial or potentially substantial adverse change may occur in any of the physical conditions within the area affected by the project that cannot be mitigated below a level of significance. If there are one or more "Potentially Significant Impact" entries, an Environmental Impact Report (EIR) is required.
4. A "Mitigated Negative Declaration" (Negative Declaration: Less Than Significant with Mitigation Incorporated) applies where the incorporation of mitigation measures, prior to declaration of project approval, has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact with Mitigation." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level.
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR (including a General Plan) or Negative Declaration [CCR, Guidelines for the Implementation of CEQA, § 15063(c)(3)(D)]. References to an earlier analysis should:
   a) Identify the earlier analysis and state where it is available for review.
   b) Indicate which effects from the environmental checklist were adequately analyzed in the earlier document, pursuant to applicable legal standards, and whether these effects were adequately addressed by mitigation measures included in that analysis.
   c) Describe the mitigation measures in this document that were incorporated or refined from the earlier document and indicate to what extent they address site-specific conditions for this project.
6. Lead agencies are encouraged to incorporate references to information sources for potential impacts into the checklist or appendix (e.g., general plans, zoning ordinances, biological assessments). Reference to a previously prepared or outside document should include an indication of the page or pages where the statement is substantiated.
7. A source list should be appended to this document. Sources used or individuals contacted should be listed in the source list and cited in the discussion.
8. Explanation(s) of each issue should identify:
   a) the criteria or threshold, if any, used to evaluate the significance of the impact addressed by each question **and**
   b) the mitigation measures, if any, prescribed to reduce the impact below the level of significance.

Environmental Issues

1. Aesthetics

Environmental Setting

The Clark Property is about 16 acres in size and is located adjacent to Corbett Creek, a tributary to Arroyo Grande Creek near the confluence of Carpenter and Corbett Creeks. The portion of the property to be encumbered with the proposed conservation easement consists primarily of open space, the creek and riparian corridor, and several small isolated wetlands. An outbuilding and a series of fenced pastures currently occupy most of the property, with approximately six (6) acres of land in seasonal pasture. The conservation easement will encompass a portion of the fenced pasture area, but does not include any structures. The project would utilize approximately 12.5 acres for a conservation easement for the purpose of restoring a historic floodplain. The project would create a sedimentation basin, expand a wetland area, construct an earthen berm around the detention area to impound additional runoff, and install control structures. These improvements would help to attenuate peak storm flows, thereby increasing flood protection to urban and agricultural areas downstream. The proposed project would enhance the rural setting by placing existing open space in a perpetual conservation easement and by adding riparian vegetation. There are no visual impacts anticipated.

Project improvements downstream along the Corbett Creek reach include channel restoration at strategic locations. Improvements include removing a four foot (4') high head-cut that is migrating upstream, removal of sediment, and strategic removal of vegetation to increase conveyance capacity. These improvements have not yet been designed, but there are no expected visual impacts associated with this component of the project.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse affect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☐	☒
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☐	☒

Discussion

a-d: No impacts.

2. Agriculture and Forestry Resources

Environmental Setting

The project area is not "Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency", nor is it located near any Farmland.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220)g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?	☐	☐	☐	☒

** In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997), prepared by the California Department of Conservation as an optional model for use in assessing impacts on agricultural and farmland.*

Discussion

a-e: No impacts.

3. Air Quality

Environmental Setting

San Luis Obispo County is in non-attainment status for ozone (O_3), respireable particulate matter (PM10) and vinyl chloride under the California Air Resource Board (CARB) standards. The County is in attainment status for all other applicable CARB standards.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☐	☐	☒	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☐	☒	☐	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☐	☒
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☐	☒

Discussion

a: No impacts.

b-c: The San Luis Obispo County Air Pollution Control District (APCD) has developed the CEQA Air Quality Handbook to evaluate project specific impacts and determine if air quality mitigation measures are needed, or if potentially significant impacts could result. The City refers to this Handbook for all projects subject to CEQA. Although the construction phase of the project is below the thresholds for significance, some mitigation is recommended. Construction for this project includes grading to expand the wetland area and to create the sedimentation basin. The "operation" phase of this project would include periodic maintenance of the sedimentation basin and is considered insignificant. It is anticipated that sedimentation removal might occur every five (5) to ten (10) years, and would largely depend on the severity of storm conditions.

According to the general operational screening criteria in the APCD Handbook, the grading associated with the proposed project is not expected to generate potentially significant air quality impacts. However, emissions associated with project construction could affect adjacent properties and would add to the cumulatively significant effect that results in basin-wide exceedance of air quality standards. These temporary fugitive dust and combustion emissions can impact local air quality. Implementation of the following mitigation measures will reduce air quality impacts to a less than significant level:

MM 3.1: The following conditions shall be included on all project plans and adhered to for all grading-related permits:

- Reduce the amount of disturbed area where possible.
- Use water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increase watering frequency when wind speeds exceed 15 MPH. Reclaimed (non-potable) water shall be used whenever possible.
- All dirt stockpile areas should be sprayed daily or as needed using reclaimed (non-potable) water when feasible.

- Exposed ground areas that are planned to be reworked more than one (1) month after initial grading should be sown with a fast-germinating native grass seed and watered until vegetation is established.
- All areas to be paved (i.e. access road to the sediment basin) should be completed as soon as possible.
- All trucks hauling dirt, sand, soil or other loose materials are to be covered or shall maintain at least two (2) feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.
- Streets shall be swept at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed (non-potable) water should be used where feasible.
- Diesel idling shall not be permitted.
- Signs that specify the no idling requirement shall be posted and enforced at the construction site.
- Use of alternative-fueled equipment is recommended whenever possible.
- The contractor shall designate a person or persons to monitor and implement these measures as necessary to minimize dust complaints, reduce visible emissions below 20% opacity and to prevent the transport of dust off-site. The name and telephone number of such persons shall be provided to the Air Pollution Control District (APCD) prior to the start of any grading-related activities. (See MM 9.1 for erosion control measures).

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 3.2: All portable equipment (50 horsepower or greater) used during grading operations must be issued a permit by either the California Air Resources Board (CARB) or the APCD. (Contact the APCD Engineering Division at (805) 781-5912 for specific information regarding permitting requirements prior to start of the project).

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

d-e: No impacts.

4. Biological Resources

Environmental Setting

The project area includes the confluence of Corbett Creek and Carpenter Canyon Creek as well as the confluence of Corbett Creek and Arroyo Grande Creek. Corbett Creek is a perennial creek that carries flow except in drought years. The property has a long history of livestock grazing, and there has been some modification of natural hydrology by re-alignment of the creeks and construction of a berm.

To determine the extent and quality of wetland habitat on the project site, and whether portions of the project area were eligible for wetland protection and restoration through the Wetland Reserve Program

(WRP), a report was conducted by the Natural Resources Conservation Service (NRCS) in December 2006. According to the report, the Clark Property does not contain any land that would be eligible for the Wetland Reserve Program. The site contains small areas of natural wetlands in four (4) delineations and the remaining land subject to the conservation easement is considered non-wetland.

The project site contains a variety of non-native and native plant species, with willows being the dominant native tree species. The prevailing understory species present include German ivy, poison hemlock, California blackberry, hoary nettle, poison oak, and morning glories (Denise Duffy and Associates, 2003). According to the Tally Ho Creek Planning Project Technical Memo Appendices prepared by Waterways Consulting, Inc. (June 2010), there are several identified special status plant and wildlife species that are likely present, although were not observed during the site inventory. These include Hoover's bent grass *(Agrostis hooveri)*, black-flowered figwort *(Scrophularia atrata)*, San Bernardino aster *(Symphyotricham defoliatum)*, California red-legged frog *(Rana aurora draytonii)*, Southwestern pond turtle *(Actinemys marmorata pallid)*, and the Yellow Warbler *(Dendroica petechia)*. The U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) have regulatory responsibility for the protection of special status plant and wildlife species. "Special status" species are selected for protection because they are rare and/or subject to population and habitat declines. Special status is a general term for species that are afforded varying levels of regulatory protection.

Would the project:	**Potentially Significant Impact**	**Less Than Significant with Mitigation**	**Less Than Significant Impact**	**No Impact**
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a sensitive, candidate, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?	☐	☒	☐	☐
c) Have a substantial adverse effect on federally protected wetlands, as defined by §404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☒	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Discussion

a-d: With the mitigation measures identified below, it is not anticipated that the project will have a significant impact on biological resources due to the historic equestrian use of the site and the short duration of construction/grading activities. The site is dominated by non-native plants except for willows. The purpose of creating the sedimentation basin and enhancing the floodplain area is to first impede flooding downstream, and second to enhance the native habitat. It is expected that the long term benefits of restoring the floodplain and riparian habitat will outweigh short term impacts. Although the project will incorporate requirements for any necessary permits from the California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS), several mitigation measures are included to offset any potential short term impacts. The following measures are primarily designed to promote habitat avoidance.

MM 4.1: Construction/grading shall take place after the breeding season for the Yellow Warbler (April – July) to limit noise impacts. If construction/grading must start during this time period, surveys of nesting birds within the project vicinity shall be completed by a qualified wildlife biologist. If the surveys identify active nests of the Yellow Warbler within the project vicinity, all earthmoving activities shall cease until the chicks have fledged. The biologist shall provide the lead agency and responsible agencies with a written report of survey findings, and shall specify when the project work may safely commence.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager (in consultation with the U.S. Fish and Wildlife Service (USFWS) prior to proceeding with work)
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 4.2: A qualified wildlife biologist shall complete and submit to the lead agency and responsible agencies a pre-construction survey for California red-legged frogs and Southwestern pond turtles. The survey shall be conducted during the time period when these species are known to be active. If no individuals are found, construction may proceed. If individuals are found during the initial investigation, the biologist shall conduct clearance surveys for these species approximately one (1) week prior to construction. Individuals found within the construction area will either be relocated to similar, adjacent habitats at least fifty (50) yards outside of the project area, or held in captivity until construction is complete. The project area shall be monitored during construction and appropriate measures taken to ensure that the individuals of relocated species do not move into the construction area. The decision of whether to relocate the animals shall be made by the biologist, although all mitigation activities would have to occur within the framework of any permits issued by the USFWS and CDFG.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager (in consultation with the U.S. Fish and Wildlife Service (USFWS) prior to proceeding with work)
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 4.3: A qualified botanist shall conduct an initial site survey to map occurrence of Hoover's bent grass, San Bernardino aster and black-flowered figwort. If sensitive plant species are found on site and determined to be potentially impacted, the botanist shall prepare procedures that ensure no net loss of plants. These include, but are not limited to, designating avoidance areas, transplanting the plant populations to an equivalent location on site, or replaced in-kind with new plants at a ratio of two (2) plants replaced for each one (1) lost or at a ratio acceptable to the botanist. The transplanted or replaced plants shall be monitored over a five (5) year period. Any plants lost during this time period shall be replaced. The botanist shall prepare a planting, irrigation and maintenance plan that includes these provisions. If the botanist concludes that avoidance is a viable option, locations determined to be potentially impacted will be flagged against inadvertent or unintentional damage.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager (in consultation with the U.S. Fish and Wildlife Service (USFWS) prior to proceeding with work)
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 4.4: The applicant shall acquire appropriate resource agency permits and undertake protection measures as required by those agencies.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

e-f: No impacts.

5. Cultural Resources

Environmental Setting

Creeks are a focal area of concern for the purposes of cultural resource sensitivity due to the pre-history and historical activity that occurred along and extending from creeks. The Central Coastal Information Center under contract to the State Office of Historic Preservation (OHP) helps implement the California Historical Resources Information System (CHRIS). It integrates information on new resources and known resources into CHRIS, supplies information on resources and surveys to governments and supplies lists of consultants qualified to conduct historic preservation fieldwork within the area. The California Archaeological Site Inventory is the collection of Site Records, which has been acquired and managed by the Information Centers and the OHP since 1975. According to these records, no known cultural site is located in the immediate project vicinity. Of the nineteen (19) site investigations conducted within a half mile radius of the project site, four (4) of which were on adjoining properties, there was only one (1)

site that revealed any positive results for archaeological resources, which was located about 0.4 mile south of the project site near Paulding Middle School.

By virtue of the project area including the confluence of two (2) creeks, there may be a likelihood of prehistoric or early historic occupation or use of the site even though there are no known sites in the vicinity. Additionally, the proposed project requires a limited amount of surface excavation for the purposes of collection of fine sediment and floodplain restoration.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource, as defined in §15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource, pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

Discussion

a-c: Although it is not anticipated that there are any impacts to archaeological/cultural resources, implementation of the mitigation measures below will ensure that no impacts will occur.

MM 5.1: In the event that prehistoric cultural materials or historic cultural materials are encountered, work in the immediate vicinity of the finds shall be suspended until reviewed by an archaeologist, and the City shall be notified immediately should such resources be discovered. The archaeologist shall work as quickly as possible to permit resumption of construction activities. It is preferred that location data of finds be recorded using a hand-held global positioning system (GPS) receiver.

If human remains are encountered and determined to be Native American in origin, the San Luis Obispo County coroner will notify the Native American Heritage Commission (NAHC) within 24 hours of the find. The NAHC shall identify the person or persons it believes to be the most likely descendent of the deceased Native American. The most likely descendent may make recommendations for means of treating or disposing of the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 5.2: The note below shall be placed on the grading and improvement plans for the project:

"If human remains (burials) are encountered, the County Coroner shall be contacted immediately (805-781-4513). In the event that previously unidentified potentially significant cultural resources are discovered, an archaeologist shall have the authority to

divert or temporarily halt ground disturbance operations in the area of discovery to allow evaluation of potentially significant cultural resources in consultation with Northern Chumash Tribal Council. For significant cultural resources, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the consulting archaeologist and approved by the City, then carried out using professional archaeological methods. If it can be demonstrated that a project will cause damage to a unique archaeological resource, the City may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state."

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

6. Geology and Soils

Environmental Setting

The site has varying topographical gradients but generally consist of a 2-5% northeasterly slope. The soils on the Corbett Creek watershed are derived from soft, highly erodible sandstones. High levels of sediment in the creek have come from several locations of erosion and flooding events. The highest profile erosion sources came from the clearing and grading of an upslope property on James Way for a housing development. In 2001, a combination of heavy rains and soils with a high to very high hazard rating for water erosion led to the sedimentation of the James Way stormwater ditch and Corbett Creek, in turn causing flooding to adjacent homes. Homes along Corbett Creek in some cases are as little as twenty feet (20') from the creek and are not elevated. The sediment was deposited in Corbett Creek, raising the streambed. Sediment accumulation has created marsh-like wetland areas that alter the form and function of the creek, diminishing the in-stream habitat and the conveyance of water and sediment.

In addition to erosion, expansion of the urban fringe, road development and increases in impervious surfaces have resulted in changes in the timing and magnitude of peak flows in the creek. There are small berms in some localized areas along the north side of the active channel built by landowners. Another factor affecting stream function is a four foot (4') high head-cut in the creek (as of 2007). If the head-cut was to progress upstream 2,700 feet, approximately 7,000 cubic yards of sediment would mobilize (Swanson Hydrology & Geomorphology, 2008) and be transported downstream to Arroyo Grande Creek, impacting steelhead habitat and increasing flooding challenges in the Zone 1/1A flood control channel.

No active faulting is known to exist on or close to the subject property. The project is not within a known area containing serpentine or ultramafic rock or soils (i.e. low risk of naturally occurring asbestos).

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area, or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)	☐	☐	☐	☒
ii) Strong seismic ground shaking?				
iii) Seismic-related ground failure, including liquefaction?				
iv) Landslides?				
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable, as a result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☐	☒
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☐	☒
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems, where sewers are not available for the disposal of waste water?	☐	☐	☐	☒

Discussion

a: No impacts.

b: The project is intended to alleviate risks from increasing head-cuts and deposition of sediment. The project does not alter geotechnical requirements or permit additional construction in geologically sensitive or hazardous areas. The project description integrates development and implementation of both short and long term Best Management Practices (BMPs) to address construction and long term maintenance of the sedimentation basins on the Clark Property, design of the head-cut remediation and BMPs for landowners on the project area.

c-e: No impacts.

7. Greenhouse Gas (GHG) Emissions

Environmental Setting

The project area includes residential development adjacent to Corbett Creek except at the Village Core where there are four parcels zoned Village Core/Village Mixed Use. The Clark Property is mostly undeveloped and contains a barn, equestrian trails and corals. Project construction is limited to creation of a sedimentation basin and expansion of the floodplain within defined areas. Short term greenhouse gas (GHG) emissions would be generated from equipment used for grading operations and are considered less than significant. There is not an operational phase to this project except for periodic (every 5-10 years) maintenance of the sedimentation basin. Therefore, GHG emissions cease once the initial construction is complete.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant effect on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☒

Discussion

a: The amount of GHG emissions from construction activities do not exceed the cumulative impact thresholds established by the San Luis Obispo County Air Pollution Control District (APCD). It should be noted that Mitigation Measures 3.1 and 3.2 address equipment and idling requirements that have the dual benefit of reducing GHG emissions.

b: No impacts.

8. Hazards and Hazardous Materials

Environmental Setting

There are no known hazards or hazardous materials associated with the project site.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☐	☒
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials, substances, or waste into the environment?	☐	☐	☒	☐

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d) Be located on a site which is included on a list of hazardous materials sites, compiled pursuant to Government Code §65962.5, and, as a result, create a significant hazard to the public or environment?	☐	☐	☐	☒
e) Be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport? If so, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
f) Be located in the vicinity of a private airstrip? If so, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
h) Expose people or structures to a significant risk of loss, injury, or death from wildland fires, including areas where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	☐	☐	☐	☒

Discussion

b: The project as proposed does not pose a significant hazard to the public or the environment. However, in the unlikely event that there is an equipment malfunction producing an oil or gas spill, procedures shall be followed as outlined under MM 9.1 (preparation of a Storm Water Pollution Prevention Plan).

a, c- h: No impacts.

9. Hydrology and Water Quality

Environmental Setting

The project area includes the confluence of Corbett and Carpenter Canyon Creeks as well as the confluence of Corbett and Arroyo Grande Creeks. Except for drought years, Corbett Creek maintains perennial flow and meanders from the City limits near Highway 227 to Arroyo Grande Creek in the commercial core of the City's Village area. It has an active low flow channel/bank full morphology that narrows to approximately two-four feet (2'-4') wide near Arroyo Grande Creek. The creek travels through the backyards of residences on Tally Ho Road where there is persistent flooding. There is a four foot (4') high head-cut in the creek that was initially observed by field crews in 2007. If the head-cut were to progress upstream 2,700 feet, approximately 7,000 cubic yards of sediment would mobilize (Swanson Hydrology & Geomorphology, 2008) and be transported downstream to Arroyo Grande Creek, impacting steelhead habitat and increasing flooding challenges in the Zone 1/1A flood control channel. The project is intended to restore the riparian habitat and provide flood protection. Construction/grading activities and exposed soil could cause temporary erosion; however, implementation of Best Management Practices (BMPs) that are integrated into the project description and the mitigation measures below will mitigate the impacts to less that significant.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?	☐	☒	☐	☐
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge, such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?	☐	☐	☐	☒
c) Substantially alter the existing drainage pattern of the site or area, including through alteration of the course of a stream or river, in a manner which would result in substantial on- or off-site erosion or siltation?	☐	☒	☐	☐
d) Substantially alter the existing drainage pattern of the site or area, including through alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or off-site flooding?	☐	☒	☐	☐
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☒	☐	☐
f) Substantially degrade water quality?	☐	☒	☐	☐
g) Place housing within a 100-year flood hazard area, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map, or other flood hazard delineation map?	☐	☐	☐	☒
h) Place structures that would impede or redirect flood flows within a 100-year flood hazard area?	☐	☒	☐	☐
i) Expose people or structures to a significant risk of loss, injury, or death from flooding, including flooding resulting from the failure of a levee or dam?	☐	☒	☐	☐
j) Result in inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒

Discussion

a, c-f, h-i: Potentially significant impacts from soil erosion and an increase in sediment and turbidity to Arroyo Grande Creek could result from project grading and construction. Potentially significant impacts on hydrology and water quality from construction related activities can be reduced to a less-than-significant level with implementation of the mitigation measures listed below.

The project site is within a floodway where waters flood onto horse pastures and therefore water quality impacts from equestrian use and manure accumulation may also be a concern. The project may bring surface water more frequently in contact with pastures and manure. However, the project would

not worsen the water quality situation since no more horses would be added to the site, and some of the area currently used for horse corrals and pasture would be allocated to floodwater detention and riparian habitat enhancement. It is unknown at this time what the water quality impacts from nitrogen or bacteria will be from the project. Water quality monitoring will be carried out as required by the Storm Water Pollution Prevention Plan. The property owner is interested in BMPs to manage manure through composting. These BMPs would reduce potential bacteria pollutant loading, and would be implemented separately from this project. The continued equestrian use is not considered a potentially significant impact.

There is a potential for berm failure that could impact downstream properties. This potential will be addressed through the design process, and applicable design standards will be used.

MM 9.1: The applicant shall prepare a Storm Water Pollution Prevention Plan (SWPPP) and Erosion Control Plan that specifies the implementation of Best Management Practices (BMPs) to avoid and minimize water quality impacts as required by the Regional Water Quality Control Board (RWQCB). At a minimum, the SWPPP and Erosion Control Plan shall include:

- Designation of equipment and supply staging and storage areas at least 100 feet from the outside edge of the creek 25-foot setback area. All vehicle parking, routine equipment maintenance, fueling, minor repair, etc., and soil and material stockpile, shall be done only in the designated staging area.
- Major vehicle/equipment maintenance, repair, and equipment washing shall be performed off site.
- A wet and dry spill cleanup plan that specifies reporting requirements and immediate clean up to ensure no residual soil, surface water or groundwater contamination would remain after clean up.
- Designating concrete mixer washout areas at least 100 feet from outside edge of the creek 25-foot setback with the use of appropriate containment or reuse practices.
- A temporary and excess fill stockpile and disposal plan that ensures that no detrimental affects to receiving waters would result.
- Required site preparation and erosion control BMPs for any work that may need to be completed after October 15.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 9.2: To reduce erosion hazards due to construction activities, grading shall be minimized, and project contractors shall use runoff and sediment control structures, and/or establish a permanent plant cover on side slopes following construction.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.

Timing:	Prior to issuance of grading permit and during construction

MM 9.3: Erosion control and bank stabilization measures shall be implemented for any work that requires access to the creek, subject to CDFW approval through a Streambed Alteration Permit. These measures shall be clearly indicated on the grading plan.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 9.4: All temporary fill placed during project construction shall be removed at project completion and the area restored to approximate pre-project contours and topography.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to final inspection

MM 9.5: The project is located within a regulatory floodway. The applicant shall obtain all required permits from regulatory agencies (City of Arroyo Grande, Regional Water Quality Control Board, US Army Corps of Engineers, Ca. Dept. of Fish and Wildlife, etc.) and meet any relevant FEMA requirements associated with a regulatory floodway as necessary.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

b, g, j: No impacts.

10. Land Use and Planning

Environmental Setting

Surrounding uses are identified on Page 10 of the Initial Study. The proposed project was reviewed for consistency with policy and/or regulatory documents and appropriate land use (Land Use Element, Development Code, and Zoning Map). Outside the channel of Corbett Creek, the Clark Property is zoned for low density residential development at a density of 0.67 dwelling units/acre (a total of up to ten units). This project includes a conservation easement in perpetuity for 12.5 acres leaving a potential residential density of up to two (2) dwelling units. There are several antiquated lots in the project area that have been developed over time and the built density along Corbett Creek exceeds that of the low density residential designation. City policy C/OS 2 states that the City is to “safeguard important environmental and sensitive biological resources contribution to healthy, functioning ecosystems”. Conserving land for the purposes of localized and downstream flood protection and habitat restoration is consistent with the City’s General Plan.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☒
b) Conflict with the applicable land use plan, policy, or regulation of any agency with jurisdiction over the project (including, but not limited to, a general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☐	☒

Discussion
a-c: No impacts.

11. Mineral Resources

Environmental Setting
The project site is not located within an area known to contain mineral resources. The site is not designated in the 2001 General Plan or identified in the Integrated Program EIR prepared for the General Plan as having locally-important mineral resources. There are no permitted mining operations located within the City limits of Arroyo Grande.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that is or would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Discussion
a-b: No impacts.

12. Noise

Environmental Setting
The project site is primarily located within a low to medium density residential area. Existing ambient noise in the vicinity of the project is primarily generated by vehicular traffic. The Noise Element of the 2001 General Plan includes goals and implementation measures designed to reduce noise impacts on new development, and the City's Noise Ordinance is the primary implementing tool of the Noise Element through specific noise standards.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact

a) Generate or expose people to noise levels in excess of standards established in a local general plan or noise ordinance, or in other applicable local, state, or federal standards?	☐	☒	☐	☐
b) Generate or expose people to excessive groundborne vibrations or groundborne noise levels?	☐	☐	☐	☒
c) Create a substantial permanent increase in ambient noise levels in the vicinity of the project (above levels without the project)?	☐	☐	☐	☒
d) Create a substantial temporary or periodic increase in ambient noise levels in the vicinity of the project, in excess of noise levels existing without the project?	☐	☒	☐	☐
e) Be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport? If so, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) Be in the vicinity of a private airstrip? If so, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Discussion

a, d: Noise impacts associated with short term construction are expected to be minimal due to the need for limited surface excavation. Existing ambient noise in the vicinity of the project site is generated by vehicular traffic on Highway 227. The average sound levels during construction could exceed the threshold criteria when equipment is operating. This is considered a potentially significant impact that can be mitigated to a less-than-significant level with implementation of the below mitigation measures. There are no long-term or operational increases to ambient noise levels.

MM 12.1: Construction activities shall be restricted to the hours of 8:00 AM to 5:00 PM Monday through Friday. On-site equipment maintenance and servicing shall be confined to the same hours.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 12.2: All construction equipment utilizing internal combustion engines shall be required to have mufflers that are in good condition. Stationary noise sources shall utilize noise reducing engine housing enclosures or noise screens.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 12.3: A note shall be placed on the construction plans that no more than two (2) pieces of major earth moving equipment shall be allowed to operate simultaneously.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 12.4: All residential units located within five hundred feet (500') of the construction site shall be sent a notice regarding the construction schedule of the project. A clearly legible sign shall also be posted at the project site. All notices and the signs shall indicate the expected dates and duration of construction activities, as well as provide a telephone number that residents can call to resolve any concerns about construction noise.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

b-c, e-f: No impacts.

13. Population and Housing

Environmental Setting

The project site is located within an established low and medium density residential area. Placing 12.5 acres of the roughly 16-acre Clark Property into a conservation easement would appear to reduce the residential development potential. However, because the 12.5-acre property is located within a floodplain area, it is unlikely that housing opportunities are lost. With 3.5 acres remaining of the 16 acre site, two (2) homes could be constructed at a density of 0.67 dwelling units per acre under the Residential Hillside (RH) zoning district. Downstream along the Corbett Creel reach, the only properties with development potential (i.e. vacant) are zoned Village Mixed Use (VMU) and Village Core (VC). These zoning designations allow commercial and residential development. The proposed project would not impede development of these properties.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Discussion
a-c: No impacts.

14. Public Services

Environmental Setting
Public services to the project site are readily provided by the City of Arroyo Grande.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in significant environmental impacts from construction associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:	☐	☐	☐	☒
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

Discussion
a: No impacts.

15. Recreation

Environmental Setting
The project site is a private facility with recreational uses and is not a public facility. The property owner utilizes the site primarily for corralling and grazing horses, with most of the site left in vacant open space. The project will not affect any existing private or public parks within the area, either by creating more demand for parks or diminishing the use of parks.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	☐	☐	☒	☐

Discussion
a: No impacts.

b: The site will continue to serve as an equestrian recreational use. The existing facilities will remain, with some reduction in corral and grazing areas (see Exhibit B above under Background and Need for Project).

16. Transportation/Traffic

Environmental Setting
The project site is located within an established low and medium density residential area with access from Highway 227/Carpenter Canyon Road, Corbett Canyon Road, and Tally Ho Road where street parking is available and level of service is acceptable (LOS C or better). The project does not generate any trips that would impact the surrounding street network LOS or the backbone circulation system of the City.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial increase in traffic, in relation to existing traffic and the capacity of the street system (i.e., a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?	☐	☐	☐	☒
b) Exceed, individually or cumulatively, the level of service standards established by the county congestion management agency for designated roads or highways?	☐	☐	☐	☒
c) Cause a change in air traffic patterns, including either an increase in traffic levels or a change in location, that results in substantial safety risks?	☐	☐	☐	☒
d) Contain a design feature (e.g., sharp curves or a dangerous intersection) or incompatible uses (e.g., farm equipment) that would substantially increase hazards?	☐	☐	☐	☒
e) Result in inadequate emergency access?	☐	☐	☐	☒
f) Result in inadequate parking capacity?	☐	☐	☐	☒
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	☐	☐	☐	☒

Discussion
a-g: No impacts.

17. Utilities and Service Systems

Environmental Setting
The project site is located within the incorporated City Limits of Arroyo Grande. Utilities are available from both the City and other regional entities.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment restrictions or standards of the applicable Regional Water Quality Control Board?	☐	☐	☐	☒
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities?	☐	☐	☐	☒
Would the construction of these facilities cause significant environmental effects?	☐	☐	☐	☒
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities?	☐	☐	☐	☒
d) Have sufficient water supplies available to serve the project from existing entitlements and resources or are new or expanded entitlements needed?	☐	☐	☐	☒
e) Result in a determination, by the wastewater treatment provider that serves or may serve the project, that it has adequate capacity to service the project's anticipated demand, in addition to the provider's existing commitments?	☐	☐	☐	☒
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☐	☐	☐	☒
g) Comply with federal, state, and local statutes and regulations as they relate to solid waste?	☐	☐	☐	☒

Discussion

a-g: No impacts.

Mandatory Findings of Significance

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; substantially reduce the number or restrict the range of an endangered, rare or threatened species; or eliminate examples of the major periods of California history or prehistory?	☐	☐	☒	☐
b) Have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?	☐	☐	☐	☒
c) Have possible environmental effects that are individually limited but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of possible future projects.	☐	☐	☒	☐
d) Cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

Discussion

a, c-d: The project is located within an established low and medium density residential area. The purpose of the project is to reduce flooding downstream and will enhance a wetland habitat area. Isolated prehistoric materials may be present on the project site; however, the site does not serve as an example of a major period of California history or prehistory. The project will not cumulatively increase traffic or the demand for public services and utilities. With implementation of the proposed mitigation measures, the project will not cause substantial adverse effects on human beings or special status plant or animal species, either directly or indirectly.

b: No impacts.

Summary of Mitigation Measures

MM 3.1: The following conditions shall be included on all project plans and adhered to for all grading-related permits:

- Reduce the amount of disturbed area where possible.
- Use water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increase watering frequency when wind speeds exceed 15 MPH. Reclaimed (non-potable) water shall be used whenever possible.
- All dirt stockpile areas should be sprayed daily or as needed using reclaimed (non-potable) water when feasible.
- Exposed ground areas that are planned to be reworked more than one (1) month after initial grading should be sown with a fast-germinating native grass seed and watered until vegetation is established.
- All areas to be paved (i.e. access road to the sediment basin) should be completed as soon as possible.
- All trucks hauling dirt, sand, soil or other loose materials are to be covered or shall maintain at least two (2) feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.
- Streets shall be swept at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed (non-potable) water should be used where feasible.
- Diesel idling shall not be permitted.
- Signs that specify the no idling requirement shall be posted and enforced at the construction site.
- Use of alternative-fueled equipment is recommended whenever possible.
- The contractor shall designate a person or persons to monitor and implement these measures as necessary to minimize dust complaints, reduce visible emissions below 20% opacity and to prevent the transport of dust off-site. The name and telephone number of such persons shall be provided to the Air Pollution Control District (APCD) prior to the start of any grading-related activities. (See MM 9.1 for erosion control measures).

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 3.2: All portable equipment (50 horsepower or greater) used during grading operations must be issued a permit by either the California Air Resources Board (CARB) or the APCD. (Contact the APCD Engineering Division at (805) 781-5912 for specific information regarding permitting requirements prior to start of the project).

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 4.1: Construction/grading shall take place after the breeding season for the Yellow Warbler (April – July) to limit noise impacts. If construction/grading must start during this time period, surveys of nesting birds within the project vicinity shall be completed by a qualified wildlife biologist. If the surveys identify active nests of the Yellow Warbler within the project vicinity, all earthmoving activities shall cease until the chicks have fledged. The biologist shall provide the lead agency and responsible agencies with a written report of survey findings, and shall specify when the project work may safely commence.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 4.2: A qualified wildlife biologist shall complete and submit to the lead agency and responsible agencies a pre-construction survey for California red-legged frogs and Southwestern pond turtles. The survey shall be conducted during the time period when these species are known to be active. If no individuals are found, construction may proceed. If individuals are found during the initial investigation, the biologist shall conduct clearance surveys for these species approximately one (1) week prior to construction. Individuals found within the construction area will either be relocated to similar, adjacent habitats at least fifty (50) yards outside of the project area, or held in captivity until construction is complete. The project area shall be monitored during construction and appropriate measures taken to ensure that the individuals of relocated species do not move into the construction area. The decision of whether to relocate the animals shall be made by the biologist, although all mitigation activities would have to occur within the framework of any permits issued by the USFWS and CDFG.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 4.3: A qualified botanist shall conduct an initial site survey to map occurrence of Hoover's bent grass, San Bernardino aster and black-flowered figwort. If sensitive plant species are found on site and determined to be potentially impacted, the botanist shall prepare procedures that ensure no net loss of plants. These include, but are not limited to, designating avoidance areas, transplanting the plant populations to an equivalent location on site, or replaced in-kind with new plants at a ratio of two (2) plants replaced for each one (1) lost or at a ratio acceptable to the botanist. The transplanted or replaced plants shall be monitored over a five (5) year period. Any plants lost during this time period shall be replaced. The botanist shall prepare a planting, irrigation and maintenance plan that includes these provisions. If the botanist concludes that avoidance is a viable option, locations determined to be potentially impacted will be flagged against inadvertent or unintentional damage.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 4.4: The applicant shall acquire appropriate resource agency permits and undertake protection measures as required by those agencies.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 5.1: In the event that prehistoric cultural materials or historic cultural materials are encountered, work in the immediate vicinity of the finds shall be suspended until reviewed by an archaeologist, and the City shall be notified immediately should such resources be discovered. The archaeologist shall work as quickly as possible to permit resumption of construction activities. It is preferred that location data of finds be recorded using a hand-held global positioning system (GPS) receiver.

If human remains are encountered and determined to be Native American in origin, the San Luis Obispo County coroner will notify the Native American Heritage Commission (NAHC) within 24 hours of the find. The NAHC shall identify the person or persons it believes to be the most likely descendent of the deceased Native American. The most likely descendent may make recommendations for means of treating or disposing of the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 5.2: The note below shall be placed on the grading and improvement plans for the project:

"If human remains (burials) are encountered, the County Coroner shall be contacted immediately (805-781-4513). In the event that previously unidentified potentially significant cultural resources are discovered, an archaeologist shall have the authority to divert or temporarily halt ground disturbance operations in the area of discovery to allow evaluation of potentially significant cultural resources in consultation with Northern Chumash Tribal Council. For significant cultural resources, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the consulting archaeologist and approved by the City, then carried out using professional archaeological methods. If it can be demonstrated that a project will cause damage to a unique archaeological resource, the City may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state."

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 9.1: The applicant shall prepare a Storm Water Pollution Prevention Plan (SWPPP) and Erosion Control Plan that specifies the implementation of Best Management Practices (BMPs) to avoid and minimize water quality impacts as required by the Regional Water Quality Control Board (RWQCB). At a minimum, the SWPP and Erosion Control Plan shall include:

- Designation of equipment and supply staging and storage areas at least 100 feet from the outside edge of the creek 25-foot setback area. All vehicle parking, routine equipment maintenance, fueling, minor repair, etc., and soil and material stockpile, shall be done only in the designated staging area.
- Major vehicle/equipment maintenance, repair, and equipment washing shall be performed off site.
- A wet and dry spill cleanup plan that specifies reporting requirements and immediate clean up to ensure no residual soil, surface water or groundwater contamination would remain after clean up.
- Designating concrete mixer washout areas at least 100 feet from outside edge of the creek 25-foot setback with the use of appropriate containment or reuse practices.
- A temporary and excess fill stockpile and disposal plan that ensures that no detrimental affects to receiving waters would result.
- Required site preparation and erosion control BMPs for any work that may need to be completed after October 15.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 9.2: To reduce erosion hazards due to construction activities, grading shall be minimized, and project contractors shall use runoff and sediment control structures, and/or establish a permanent plant cover on side slopes following construction.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 9.3: Erosion control and bank stabilization measures shall be implemented for any work that requires access to the creek, subject to CDFW approval through a Streambed Alteration Permit. These measures shall be clearly indicated on the grading plan.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 9.4: All temporary fill placed during project construction shall be removed at project completion and the area restored to approximate pre-project contours and topography.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to final inspection

MM 9.5: The project is located within a regulatory floodway. The applicant shall obtain all required permits from regulatory agencies (City of Arroyo Grande, Regional Water Quality Control Board, US Army Corps of Engineers, Ca. Dept. of Fish and Wildlife, etc.) and meet any relevant FEMA requirements associated with a regulatory floodway as necessary.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Coastal San Luis Resource Conservation District
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit

MM 12.1: Construction activities shall be restricted to the hours of 8:00 AM to 5:00 PM Monday through Friday. On-site equipment maintenance and servicing shall be confined to the same hours.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 12.2: All construction equipment utilizing internal combustion engines shall be required to have mufflers that are in good condition. Stationary noise sources shall utilize noise reducing engine housing enclosures or noise screens.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	During construction

MM 12.3: A note shall be placed on the construction plans that no more than two (2) pieces of major earth moving equipment shall be allowed to operate simultaneously.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

MM 12.4: All residential units located within five hundred feet (500') of the construction site shall be sent a notice regarding the construction schedule of the project. A clearly legible sign shall also be posted at the project site. All notices and the signs shall indicate the expected dates and duration of construction activities, as well as provide a telephone number that residents can call to resolve any concerns about construction noise.

Level of Significance:	Less than significant impact
Implementing Responsibility:	Construction Manager
Monitoring Agency:	City of Arroyo Grande, Community Development Dept.
Timing:	Prior to issuance of grading permit and during construction

References

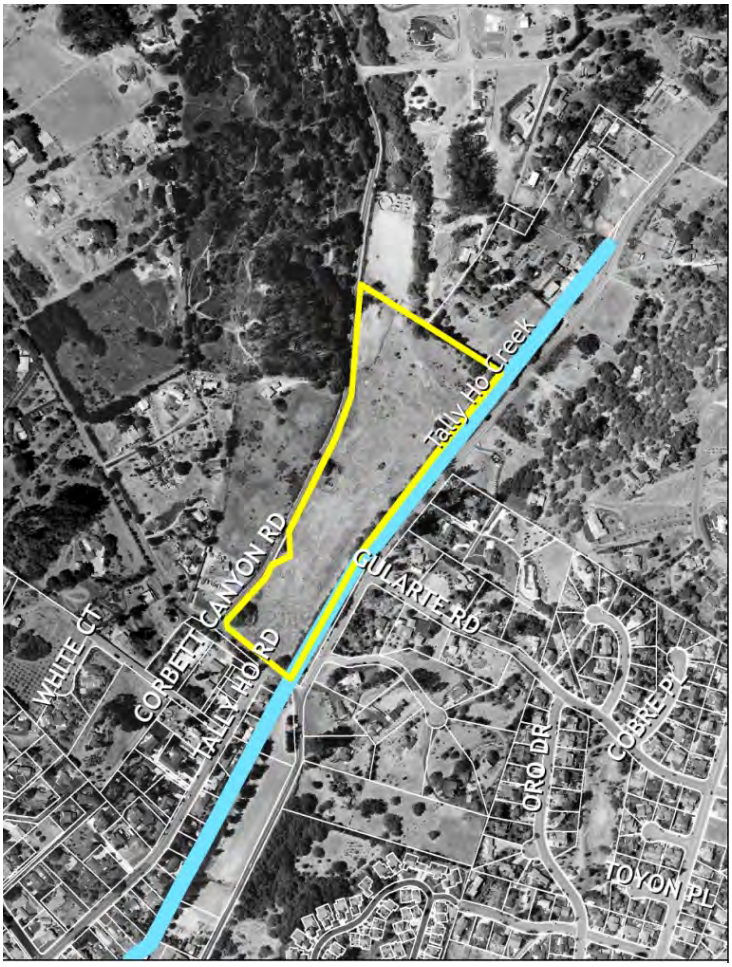
Documents & Maps

1. Arroyo Grande General Plan
2. Arroyo Grande Municipal Code
3. Arroyo Grande Zoning Map
4. Arroyo Grande Existing Settings Report & Draft Arroyo Grande Existing Settings Report (2010)
5. Arroyo Grande Urban Water Management Plan
6. Arroyo Grande Stormwater Management Plan
7. San Luis Obispo Important Farmland Map (California Department of Conservation, 2006)
8. CEQA & Climate Change White Paper (CAPCOA, 2008)
9. Air Quality Handbook (SLO APCD, 2009)
10. Project Plans – Swanson Hydrology & Geomorphology
11. Site Inspection
12. Arroyo Grande Creek Erosion, Sedimentation and Flooding Alternatives Study, Swanson Hydrology & Geomorphology, January 4, 2006
13. Letter from the Natural Resources Conservation Service regarding land eligibility report for Clark WRO Offering, dated December 19, 2006

EXHIBIT D

MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)

Staff Project No. 13-001
Corbett Creek Floodplain and Stream Restoration Project



ADOPTED BY:
CITY OF ARROYO GRANDE
PLANNING COMMISSION

DATE:
APRIL 16, 2013

Introduction

A Mitigated Negative Declaration (MND) was prepared to comply with the California Environmental Quality Act (CEQA) for the Corbett Creek Floodplain and Stream Restoration Project (the "Project"). The MND identified potential environmental impacts as well as mitigation measures to reduce the impacts, where feasible.

CEQA requires that mitigation measures identified in environmental review documents are implemented after a project is approved. Therefore, this Mitigation Monitoring and Reporting Program (MMRP) has been prepared to ensure compliance with the adopted mitigation measures during the pre-construction, construction, and post-construction phases of the Project. The mitigation measures listed herein will be adopted by the Arroyo Grande Planning Commission as part of the overall project approval.

Per Public Resources Code Section 21081.6 the measures listed in the table below constitute the mitigation monitoring and/or reporting program that will reduce potentially significant impacts to less than significant levels. These measures will become conditions of approval (COAs) should the project be approved. The Lead Agency (City of Arroyo Grande) or other Responsible Agencies, as specified in the following measures, are responsible to verify compliance with these COAs.

Mitigation is defined by the California Environmental Quality Act (CEQA) as a measure which:

- Avoids the impact altogether by not taking a certain action or parts of an action.
- Minimizes impacts by limiting the degree or magnitude of the action and its implementation.
- Rectifies the impact by repairing, rehabilitating, or restoring the impacted environment.
- Reduces or eliminates the impact over time by preservation and maintenance operations during the life of the Project.
- Compensates for the impact by replacing or providing substitute resources or environments.

The mitigation measures discussed in the table below have been identified as feasible and effective in mitigating Project-related environmental impacts.

Project Location

The project reach begins at the Highway 227 Bridge over Tally Ho Creek and extends upstream to the east end of the Clark property (APN 007-791-032).

Project Description

The proposed project involves the acquisition by the Coastal San Luis Resource Conservation District (RCD) of a conservation easement over the 12.5-acre Clark Property located between Highway 227 (Carpenter Canyon Road) and Corbett Canyon Road and the design, permitting and construction of a floodplain/sediment detention basin on the easement property. The project also includes channel restoration of approximately nine hundred feet (900') of Corbett Creek located downstream of the

Clark Property. Currently there are no identified implementation funds for the channel restoration component of the project. The City will be directly involved in the project through permitting of the floodplain/sediment detention basin design and implementation activities.

The Project goals are:

1. Increase sediment capture on floodplain easement
2. Increase flood attenuation on floodplain easement
3. Enhance floodplain wetland for flood attenuation and habitat

The Project will construct a sediment basin and enhance a floodplain wetland resulting in an estimated 524 tons of sediment per year settled into a basin, reduced peak flows in storms with recurrence intervals of ten (10) years or greater, and three (3) acres of floodplain wetland enhanced.

Program Implementation and Monitoring
Each mitigation measure is described in the following format:

Requirements of Measure	The description of the mitigation measures.
Mitigation Level	The level to which the impact is anticipated to be mitigated.
Implementing Responsibility	The agency or individual that has the responsibility for implementing or performing the measure.
Monitoring Responsibility	The public agency that has the responsibility for monitoring to ensure that the mitigation measure is effective in mitigating the impact.
Compliance Standards	The method used to verify compliance.
Timing	The appropriate points in time at which the mitigation measure is to be initiated and completed.

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
Air Quality							
3.1	The following conditions shall be included on all project plans and adhered to for all grading-related permits: • Reduce the amount of disturbed area where possible. • Use water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increase watering frequency when wind speeds exceed 15 MPH. Reclaimed (non-potable) water shall be used whenever possible. • All dirt stockpile areas should be sprayed daily or as needed using reclaimed (non-potable) water when feasible. • Exposed ground areas that are planned to be reworked more than one (1) month after initial grading should be sown with a fast-germinating native grass seed and watered until vegetation is established. • All areas to be paved (i.e. access road to the sediment basin) should be completed as soon as possible.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Initial site check to ensure measures are in place. Bi-weekly site checks to ensure construction area is swept or watered regularly.	Prior to issuance of grading permit and during construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	• All trucks hauling dirt, sand, soil or other loose materials are to be covered or shall maintain at least two (2) feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114. • Streets shall be swept at the end of each day if visible soil material is carried onto adjacent paved roads. Water sweepers with reclaimed (non-potable) water should be used where feasible. • Diesel idling shall not be permitted. • Signs that specify the no idling requirement shall be posted and enforced at the construction site. • Use of alternative-fueled equipment is recommended whenever possible. • The contractor shall designate a person or persons to monitor and implement these measures as necessary to minimize dust complaints, reduce visible emissions below 20% opacity and to prevent the transport of dust						

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	off-site. The name and telephone number of such persons shall be provided to the Air Pollution Control District (APCD) prior to the start of any grading-related activities. (See MM 9.1 for erosion control measures).						
3.2	All portable equipment (50 horsepower or greater) used during grading operations must be issued a permit by either the California Air Resources Board (CARB) or the APCD. (Contact the APCD Engineering Division at (805) 781-5912 for specific information regarding permitting requirements prior to start of the project).	Less than significant impact	Construction Manager	City of A.G., Community Development Dept.	Project plans shall indicate type and horsepower of proposed equipment used during grading operations. Follow up with APCD if necessary.	Prior to issuance of grading permit and during construction.	
Biological Resources							
4.1	Construction/grading shall take place after the breeding season for the Yellow Warbler (April – July) to limit noise impacts. If onstruction/grading must start during this time period, surveys of nesting birds within the project vicinity shall be completed by a qualified wildlife biologist. If the surveys identify active nests of the	Less than significant impact	Construction Manager	City of A.G., Community Development Department	The Construction Manager shall inform the Community Development Dept. when grading activities are expected to commence. If grading must occur between April and July, pre-construction biological	Prior to issuance of grading permit.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	Yellow Warbler within the project vicinity, all earthmoving activities shall cease until the chicks have fledged. The biologist shall provide the lead agency and responsible agencies with a written report of survey findings, and shall specify when the project work may safely commence.				surveys shall be submitted to the City, CSRCD, CDFW and FWS prior to issuance of grading permit.		
4.2	A qualified wildlife biologist shall complete and submit to the lead agency and responsible agencies a pre-construction survey for California red-legged frogs and Southwestern pond turtles. The survey shall be conducted during the time period when these species are known to be active. If no individuals are found, construction may proceed. If individuals are found during the initial investigation, the biologist shall conduct clearance surveys for these species approximately one (1) week prior to construction. Individuals found within the construction area will either be relocated to similar, adjacent habitats at least fifty (50) yards outside of the project area, or	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Pre-construction biological surveys shall be conducted according to the mitigation language and submitted to the City, CSRCD, CDFW and FWS prior to issuance of grading permit. If individuals of special status species are found, a biologist shall be retained to prepare recommendations and monitor the project area during construction.	Prior to issuance of grading permit and during construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	held in captivity until construction is complete. The project area shall be monitored during construction and appropriate measures taken to ensure that the individuals of relocated species do not move into the construction area. The decision of whether to relocate the animals shall be made by the biologist, although all mitigation activities would have to occur within the framework of any permits issued by the USFWS and CDFG.						
4.3	A qualified botanist shall conduct an initial site survey to map occurrence of Hoover's bent grass, San Bernardino aster and black-flowered figwort. If sensitive plant species are found on site and determined to be potentially impacted, the botanist shall prepare procedures that ensure no net loss of plants. These include, but are not limited to, designating avoidance areas, transplanting the plant populations to an equivalent location on site, or replaced in-kind with new plants at a ratio of two (2) plants replaced for each one (1) lost	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Pre-construction botanical surveys shall be conducted according to the mitigation language and submitted to the City, CSRCD, CDFW and FWS prior to issuance of grading permit. If individuals of special status plant species are found, a botanist shall be retained to prepare recommendations.	Prior to issuance of grading permit.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	or at a ratio acceptable to the botanist. The transplanted or replaced plants shall be monitored over a five (5) year period. Any plants lost during this time period shall be replaced. The botanist shall prepare a planting, irrigation and maintenance plan that includes these provisions. If the botanist concludes that avoidance is a viable option, locations determined to be potentially impacted will be flagged against inadvertent or unintentional damage.						
4.4	The applicant shall acquire appropriate resource agency permits and undertake protection measures as required by those agencies.	Less than significant impact	Coastal San Luis Resource Conservation District (CSRCD)	City of A.G., Community Development Department	CSRCD shall provide the City with applicable resource agency permits.	Prior to issuance of grading permit.	
Cultural Resources							
5.1	In the event that prehistoric cultural materials or historic cultural materials are encountered, work in the immediate vicinity of the finds shall be suspended until reviewed by an archaeologist, and the City shall be notified immediately should such	Less than significant impact	Construction Manager	City of A.G., Community Development Department	The mitigation measure language shall be included on the construction specifications.	During construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	resources be discovered. The archaeologist shall work as quickly as possible to permit resumption of construction activities. It is preferred that location data of finds be recorded using a hand-held global positioning system (GPS) receiver. If human remains are encountered and determined to be Native American in origin, the San Luis Obispo County coroner will notify the Native American Heritage Commission (NAHC) within 24 hours of the find. The NAHC shall identify the person or persons it believes to be the most likely descendent of the deceased Native American. The most likely descendent may make recommendations for means of treating or disposing of the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.						
5.2	The note below shall be placed on the grading and improvement plans for the project:	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Mitigation measure shall be included on the construction specifications.	Prior to issuance of grading permit.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	"If human remains (burials) are encountered, the County Coroner shall be contacted immediately (805-781-4513). In the event that previously unidentified potentially significant cultural resources are discovered, an archaeologist shall have the authority to divert or temporarily halt ground disturbance operations in the area of discovery to allow evaluation of potentially significant cultural resources in consultation with Northern Chumash Tribal Council. For significant cultural resources, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the consulting archaeologist and approved by the City, then carried out using professional archaeological methods. If it can be demonstrated that a project will cause damage to a unique archaeological resource, the City may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state."						

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
Hydrology and Water Quality							
9.1	The applicant shall prepare a Storm Water Pollution Prevention Plan (SWPPP) and Erosion Control Plan that specifies the implementation of Best Management Practices (BMPs) to avoid and minimize water quality impacts as required by the Regional Water Quality Control Board (RWQCB). At a minimum, the SWPPP and Erosion Control Plan shall include: • Designation of equipment and supply staging and storage areas at least 100 feet from the outside edge of the creek 25-foot setback area. All vehicle parking, routine equipment maintenance, fueling, minor repair, etc., and soil and material stockpile, shall be done only in the designated staging area. • Major vehicle/equipment maintenance, repair, and equipment washing shall be performed off site. • A wet and dry spill cleanup plan that specifies reporting requirements and immediate	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Prepare SWPPP as indicated and implement BMPs as required.	Prior to issuance of grading permit and during construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	clean up to ensure no residual soil, surface water or groundwater contamination would remain after clean up. • Designating concrete mixer washout areas at least 100 feet from outside edge of the creek 25-foot setback with the use of appropriate containment or reuse practices. • A temporary and excess fill stockpile and disposal plan that ensures that no detrimental affects to receiving waters would result. • Required site preparation and erosion control BMPs for any work that may need to be completed after October 15.						
9.2	To reduce erosion hazards due to construction activities, grading shall be minimized, and project contractors shall use runoff and sediment control structures, and/or establish a permanent plant cover on side slopes following construction.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Ensure runoff and sediment control measures are on the grading plan and in place prior to grading activities.	Prior to issuance of grading permit and during construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
9.3	Erosion control and bank stabilization measures shall be implemented for any work that requires access to the creek, subject to CDFW approval through a Streambed Alteration Permit. These measures shall be clearly indicated on the grading plan.	Less than significant impact	Coastal San Luis Resource Conservation District (CSRCD)	City of A.G., Community Development Department	Ensure erosion control and bank stabilization measures are on the grading plan and in place prior to grading activities. If required by CDFW, a Streambed Alteration Permit shall be approved and a copy of the permit shall be submitted to the City.	Prior to issuance of grading permit and during construction.	
9.4	All temporary fill placed during project construction shall be removed at project completion and the area restored to approximate pre-project contours and topography.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	The grading plan shall indicate all proposed temporary fill areas. Removal of temporary fill areas shall be verified prior to final inspection.	Prior to final inspection.	
9.5	The project is located within a regulatory floodway. The applicant shall obtain all required permits from regulatory agencies (City of Arroyo Grande, Regional Water Quality Control Board, US Army Corps of Engineers, Ca. Dept. of Fish and Wildlife, etc.) and meet any relevant FEMA requirements associated with a regulatory floodway as necessary.	Less than significant impact	Coastal San Luis Resource Conservation District (CSRCD)	City of A.G., Community Development Department	A copy of all necessary resource agency permits shall be submitted to the City.	Prior to issuance of grading permit.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
Noise							
12.1	Construction activities shall be restricted to the hours of 8:00 AM to 5:00 PM Monday through Friday. On-site equipment maintenance and servicing shall be confined to the same hours.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Ensure adherence to construction hours.	During construction.	
12.2	All construction equipment utilizing internal combustion engines shall be required to have mufflers that are in good condition. Stationary noise sources shall utilize noise reducing engine housing enclosures or noise screens.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Ensure use of mufflers and other attenuation devices.	During construction.	
12.3	A note shall be placed on the construction plans that no more than two (2) pieces of major earth moving equipment shall be allowed to operate simultaneously.	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Ensure note is on the plans and measure is adhered to during site inspections.	Prior to issuance of grading permit and during construction.	
12.4	All residential units located within five hundred feet (500') of the construction site shall be sent a notice regarding the construction schedule of the project. A clearly legible sign shall also be posted at the project site. All notices and the signs	Less than significant impact	Construction Manager	City of A.G., Community Development Department	Send notices, post sign and designate a City staff person to respond to any noise concerns.	Prior to issuance of grading permit and during construction.	

MM #	Requirements of Measure	Mitigation Level	Implementing Responsibility	Monitoring Responsibility	Compliance Standards *(Note: All Mitigation Measures shall be included on the project plans)*.	Timing	Verification of Compliance (Initials / Date / Remarks)
	shall indicate the expected dates and duration of construction activities, as well as provide a telephone number that residents can call to resolve any concerns about construction noise.						

EXHIBIT E

Corbett Creek Floodplain and Stream Restoration Project

Addendum to the
2013 Initial Study / Mitigated Negative Declaration
SCH# 2013031045

Prepared by
Coastal San Luis Resource Conservation District
1203 Main St, Ste B, Morro Bay CA, 93442

COASTAL SAN LUIS
RESOURCE
CONSERVATION
DISTRICT

April 2023

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Introduction

This document is an Addendum to the 2013 Corbett Creek Floodplain and Stream Restoration Project Initial Study and Mitigated Negative Declaration (MND) prepared in compliance with the California Environmental Quality Act (CEQA) of 1970, Public Resources Code §21000, et seq., as amended, and implementing CEQA Guidelines, Title 14, Chapter 3 of the California Code of Regulations. The 2013 Corbett Creek Floodplain and Stream Restoration Project MND evaluated the acquisition of a floodplain easement on Corbett Creek as well as the restoration of approximately 900 feet of stream channel downstream of the floodplain easement.

The purpose of this Addendum is to analyze the environmental impacts of the Corbett Creek Floodplain and Stream Restoration Project, herein referred to as the "updated project." The updated project includes more detailed engineered design plans that more accurately define project impacts. The approved project, evaluated in the 2013 MND, included 50% conceptual engineered design plans with approximate impacts. The updated project location and technical approach does not differ from the approved project. Item 7, Description of Project, of this addendum defines the revised project and describes the proposed changes in detail.

The City of Arroyo Grande assumed the role of Lead Agency for the development of the 2013 MND. Due to changes in project roles, the Coastal San Luis Resource Conservation District (CSLRCD) took over the role of Lead Agency for this project in 2023.

This Addendum has been prepared in accordance with the relevant provisions of CEQA and the CEQA Guidelines. According to Section 15164(b) of the CEQA Guidelines, an addendum to a Negative Deceleration is the appropriate environmental document in instances when "only minor technical changes or additions are necessary or none of the conditions described in Section 15261 calling for the preparation of a subsequent Negative Deceleration have occurred." Section 15162(a) of the CEQA Guidelines states no subsequent Negative Deceleration shall be prepared for a project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:

1. Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
2. Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or Negative Declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

3. New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the Negative Declaration was adopted, shows any of the following:

    A. The project will have one or more significant effects not discussed in the previous MND,

    B. Significant effects previously examined will be substantially more severe than shown in the previous EIR;

    C. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

    D. Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The increased detail included in the updated project are minor in the sense they would not create potentially significant environmental impacts in addition to those already identified in the 2013 MND for the approved Corbett Creek Floodplain and Stream Restoration Project. The updated project would also not substantially increase the magnitude or severity of impacts that were previously identified. This addendum includes a description of the updated project, and a discussion of the environmental impacts of the proposed project change, focusing on Air Quality, Biological Resources, Tribal Cultural Resources, Energy, Hydrology and Water Quality, and Noise.

CSLRCD Board of Directors shall consider this addendum with the 2013 Corbett Creek Floodplain and Creek Restoration Project MND prior to making a CEQA decision on the updated project. The 2013 Corbett Creek Floodplain and Creek Restoration Project MND is available for review at the CSLRCD offices, located at 1203 Main Street, suite B, in Morro Bay, 93442.

Previous Environmental Review

This section provides an overview of the 2013 Corbett Creek Floodplain and Creek Restoration Project MND, to provide context for this addendum

2013 Corbett Creek Floodplain and Creek Restoration Project MND

The 2013 Corbett Creek Floodplain and Creek Restoration Project MND evaluates the potential environmental effects of the acquisition of a 12.5-acre conservation easement, the design and construction of a sedimentation and flood reduction basin on the easement property, as well as an analysis of a proposed sediment removal and creek restoration project downstream along Corbett Creek intended to reduce flooding in that area. The project begins at the East Branch Street culvert and extends upstream approximately one (1) mile to the north end of the Clark Property (APN 007-791-032). A conservation easement and sedimentation reduction project is being sought on the subject property as a strategic location to carry out inter-related goals of the California Department of Water Resources Flood Protection Corridor Program and the City of Arroyo Grande's goals stated in the Conservation/Open Space and Agricultural Element of the 2001 General Plan and 2007 Creek Resources Protection Study.

The 2013 MND found that the following factors would be potentially affected by the project:

Air Quality: Analysis of project impacts determined that emissions associated with project construction could affect adjacent properties and would add to the cumulatively significant effect that results in basin-wide exceedance of air quality standards. These temporary fugitive dust and combustion emissions can impact local air quality. Adopted mitigation measures MM3.1 and MM3.2 prescribe several actions to reduce emissions to less than significant.

Biological Resources: Analysis of biological resources present in the project area determined that adverse effects on sensitive species, including California red-legged frog, and riparian habitats would be less than significant with mitigation. Adopted measures include avoiding nesting and mating seasons for present sensitive species, pre-construction surveys, and appropriate regulatory permitting.

Cultural Resources: Analysis of project impacts determined that adverse change in the significance of an archaeological resource could be less than significant with mitigation. Adopted measures include suspending work and contacting appropriate authorities if resources are encountered.

Hydrology/Water Quality: Analysis of hydrology and water resources within the project area determined that project activities, including grading and filling could degrade or violate water quality and waste discharge requirements, or alter existing drainage patterns resulting in erosion or flooding. Analysis also determined that the project had the potential to impede or redirect flood flows within a 100-year flood hazard area and expose people or structures to a significant risk of loss,

injury, or death from flooding. Potentially significant impacts on hydrology and water quality from construction related activities can be reduced to a less-than-significant level with implementation of the several mitigation measures, including adoption of a project-specific Stormwater Pollution Prevention Plan, establishment of permanent vegetation cover after project completion, installation of erosion control practices during and following construction, and compliance with any and all applicable regulation associated with floodway management.

Noise: Analysis of project impacts determined that the residents adjacent to the project area may be exposed to noise levels in excess of established standards and that the project may generate periodic or temporary increases in ambient noise levels. Noise impacts associated with short term construction are expected to be minimal, and adopted mitigation measures, including restricted work windows and engine mufflers will reduce impacts to less than significant.

Corbett Creek Floodplain and Stream Restoration Project

1. Project Title

Corbett Creek Floodplain and Stream Restoration Project

2. Lead Agency Name and Address

Coastal San Luis Resource Conservation District
1203 Main St. Suite B Morro Bay, CA 93442
(805)772-4391

3. Contact Person and Phone Number

Hallie Richard, Conservation Programs Manager
805-772-4391, hrichard@coastalrcd.org

4. Project Location

1. Floodplain Easement: APN 007-791-032 (Clark Property)
2. Stream Restoration (APNs: 007-211-013, 007-211-007, 007-211-038, 007-211-030, 007-211-029, 007-252-013) See figure 1 below.

5. Project sponsor's name and address

Coastal San Luis resource Conservation District
1203 Main St, Ste B
Morro Bay, CA 93442

6. General Plan Designation

1. Low Density Residential (LD); Conservation Open Space (C/OS)
2. Low-Medium Density Residential (LM); Conservation Open Space (C/OS)

7. Zoning Designation

1. Residential Hillside (RH); Public Facility (PF) (combining designation for the portion of the property containing the creek channel)
2. Residential Suburban (RS); Single Family (SF); Village Mixed Use (VMU); Village Core Downtown (VCD); Public Facility (PF) (combining designations for portions of properties containing the creek channel)

8. Description of Project

The project scope includes the acquisition of a conservation easement and design and implementation of a sediment reduction project for the purpose of floodplain restoration, sediment capture and peak flow attenuation along specific reaches of Corbett Creek. The sediment reduction project includes two distinct components:

1. CSLRCD has acquired a conservation easement in perpetuity over 12.50 acres of the 15.79 acre Clark Property at the confluence of Carpenter Creek and Corbett Creek to act as a floodplain and thereby attenuate peak flows. The conservation easement area will be used to construct a sediment basin, a floodwater detention area and a riparian habitat enhancement area (Appendix A). These easement acquisition and construction components of the project are identified in a technical study (Swanson Hydrology and Geomorphology, 2006) as critical to alleviating flooding on Corbett Creek and reducing stress on lower Arroyo Grande Creek through the reduction of peak flows and fine sediment. These project components have also been identified as providing an important location upon which to restore riparian and floodplain habitat within an urban wildlife corridor. Final engineering design, permitting, implementation and monitoring are anticipated to be completed using grant funds obtained from the Department of Water Resources (DWR) through the Urban Streams Restoration Program or State Coastal Conservancy. Secured funding is contingent upon commitment from project beneficiaries (City of Arroyo Grande, SLO Co Flood Control Zones 3 and 1/1A) for long-term maintenance of the sediment basins. The estimated sediment delivery reduction provided by the site is approximately nine hundred (900) tons per year. Specific elements of the project include the following: (1) Conservation easement acquisition. (2) Sedimentation reduction through construction of active and passive sedimentation basins. (3) Long-term and regular maintenance of basins and removal of accumulated sediments.

2. Planning, design and implementation of a channel restoration project to re-establish the channel geometry of approximately two-hundred seventy feet (270') of Corbett Creek (aka Tally Ho Creek) (Reach 3), thereby increasing flow volumes and reducing storm flow water surfaces. Beginning at the 4' headcut at station 18+60, a rock weir will be installed, armoring the headcut and lessening the steep grade. Following upstream from the rock weir, a low flow channel would be excavated through sediment that has built up over the years along Reach 3. According to the Tally Ho Tech Memo, developed in tandem with the engineered design plans (Appendix B), a low flow channel would be cut between stations 18+60 and 20+50 (Figure 1). The thalweg will be lowered approximately 3 feet at station 18+60 and slightly less elsewhere, removing a total of approximately 120 cubic yards of material. After sediment has been removed, engineered streambed material will be placed, creating a defined and roughened channel bed along approximately 100 linear feet of stream channel. Parallel Encapsulated Soil Lifts will be installed along approximately 75 linear feet of steam channel, creating a defined thalweg and increased storm flow capacity. The project has more

benefit at lower flows with less benefit at higher flows and is expected to reduce 5-year water surfaces by 1.7 feet at Cross Section 18+60 and 10-year water surfaces by 1.1 feet.

Implementation of the project would involve temporary dewatering of the creek channel and diversion of flows around the site, direct removal of sediment from the channel using an excavator and manual removal of riparian vegetation. Access to the work area would be through the vacant parcel at 210 Tally Ho Road. The planning and design phase is occurring between 2021 and 2023. Construction of the stream restoration is planned for September 2023 with funding from the Department of Water Resources (DWR) through the Urban Streams Restoration Program.

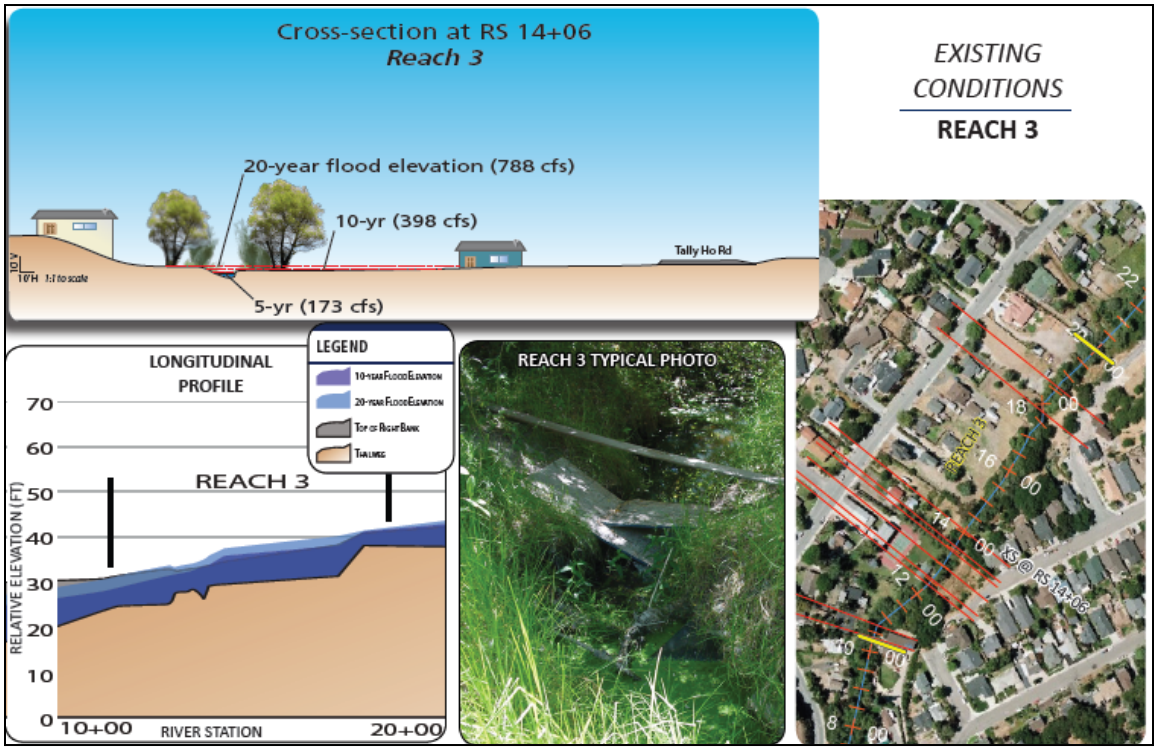


Figure 1. Existing conditions at Reach 3

9. Surrounding Land Uses and Setting

The City of Arroyo Grande is located in the southwestern portion of San Luis Obispo County, and the project site is located within the northeast section of the City of Arroyo Grande. The City is 5.45 square miles in size and is bounded by the Cities of Grover Beach and Pismo Beach to the southwest and west, and to the unincorporated County to the north, east and south. U.S. 101 extends northwest and southeast through the middle of the City, and Highway 227 runs east from U.S. 101 through the Village Area. Residential Rural and Suburban development characterize unincorporated areas to the north and southeast, and Agricultural uses dominate the Arroyo Grande Valley that extends northeast and south of the City.

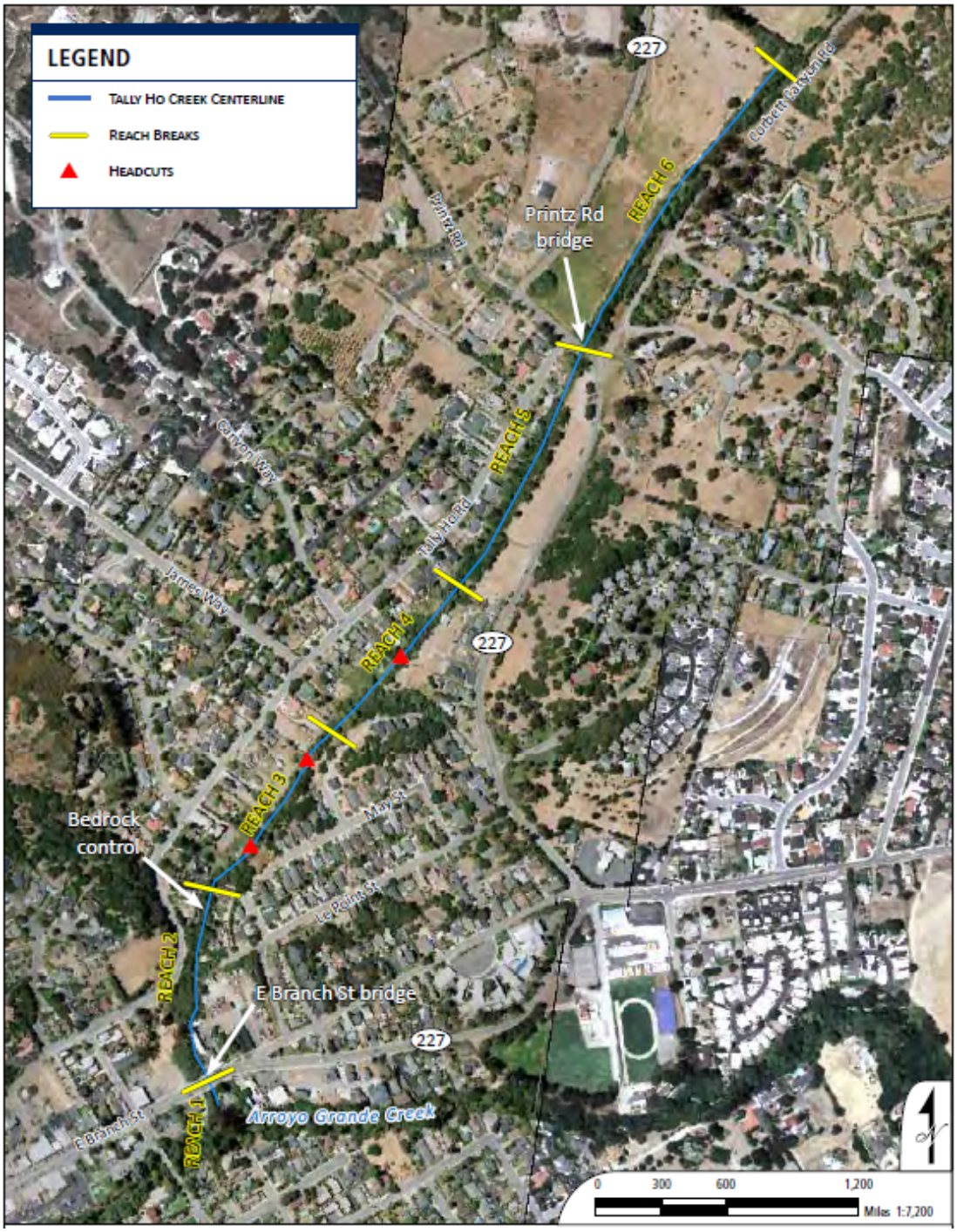


Figure 2. Location Map

The project area is the reach of Corbett Creek from the northern City border to the village Commercial area in the center of the City at the confluence of Arroyo Grande Creek. The Corbett Creek reach is one of three (3) main tributaries within the City limits. The creek flows are generally perennial in the project reach with higher flows in the winter and very low flow in the summer. The area experiences a Mediterranean climate with most precipitation occurring

from November to March. Corbett Creek stream flows remain elevated in the spring as groundwater and subsurface flows contribute to the stream. The subwatershed is dominated by agriculture and rural residential land uses. At the project reach the channel is not formally channelized; however, encroachment activities by residents over the years have effectively channelized portions of the creek. Vegetation within the project area includes native and exotic grasses, native and exotic brush including blackberry and Willow trees, and ornamental landscaping on the residential properties.

10. Required Approvals

California Department of Fish and Wildlife
Regional Water Quality Control Board
US Fish and Wildlife Service
US Army Corps of Engineers

11. California Native American Tribal Consultation (AB 52)

The 2013 MND was adopted prior to the incorporation of AB 52, which assesses a project's impacts to Tribal cultural resources, into the CEQA Guidelines checklist. In the process of developing this addendum, CSLRCD has integrated an assessment of tribal cultural resources into the review process. Pursuant to AB52, CSLRCD contacted local Native American Tribes to notify them of the project. In response to notification, several Tribal representatives responded requesting formal consultation on the project. CSLRCD initiated formal consultation on April 14th, 2023. The outcomes of that consultation are detailed below in the Potential Impacts of Revised Project section.

Potential Impacts of Revised Project

This addendum evaluates potential environmental impacts that could result from the updated project. Appendix G of the CEQA Guidelines provides a checklist of environmental issues areas that are suggested as the issue areas that should be assessed in CEQA analyses. The 2013 MND for the approved project addressed 5 of the listed 24 environmental issue areas, including Biological resources, Cultural Resources, Air Quality, Hydrology and Water quality, and Noise. The City of Arroyo Grande determined that the approved project would not significantly impact the other issue areas, including Aesthetics, Agricultural Resources, Geology and Soils, Greenhouse Gas Emissions, Hazards and Hazardous Materials, Land use and Planning, Mineral resources, Population and Housing, Public Services, Recreation, Transportation and Traffic, or Utilities. This addendum tiers off the 2013 MND, addresses the environmental consequences of the updated project, focusing on Air Quality, Biological Resources, Tribal Cultural Resources, Energy, Hydrology and Water Quality, and Noise, and updates the analysis for these environmental issue areas based on current conditions, as listed below.

The potential environmental impacts of the updated project are considered in comparison with the approved project, to determine whether impacts associated with the updated project are consistent with the impact analysis provided in the 2013 MND for the approved Project, and whether additional mitigation measures are required to minimize or avoid potential impacts.

Air Quality: The 2013 MND determined that emissions associated with project construction were less than significant with mitigation. The scope of the updated project has not been modified to the extent that emissions would increase. **Therefore, the updated project would not result in new or substantially more severe impacts associated with construction-related emissions when compared to the analysis of the approved Project in the 2013 MND.** Prescribed mitigation measures will be implemented.

Biological Resources: The 2013 MND determined that impacts to biological resources were less than significant with mitigation due to the historical land used and modification as well as prevalence of invasive species present. It is still expected that the long term benefits of restoring the floodplain and riparian habitat will outweigh short term impacts. The increased detail in the 65% engineered design plans described construction activities more acutely, including the extent of grading, fill volumes, and number of trees removed. **This increased detail indicates that the updated project will not result in new or substantially more impacts to sensitive species and habitats.** Prescribed mitigation measures will be implemented, and additional opportunities for on-site habitat enhancement will be explored.

Tribal and Cultural Resources: As described above, additional Tribal Cultural Resource assessment was completed in the development of this addendum to ensure the project's potential impacts to Tribal resources was thoroughly assessed. Local Tribes were provided with a project description of

ground disturbing activities, engineered design plans, and a list of the avoidance and mitigation measures incorporated into the 2013 MND for the protection of archaeological resources. During formal the consultation process the following terms and conditions were agreed to:

- An approved archaeologist will conduct a California Historic Records Search for the project area and provide a memo report presenting their assessment of potential project impacts and recommendations for additional measures to protect Tribal resources
- A pedestrian survey of the project area will be conducted by an approved archaeologist and Tribal representative prior to initiating any project activities.
- A Tribal monitor or approved archaeologist may choose to be present during ground disturbing activities to monitor for the presence of Tribal resources.
- All previously adopted measures for the protection of cultural resources will be implemented.

With the inclusion of these additional measures, **the updated project will not result in new or substantially more impacts to Tribal and Cultural Resources when compared to the analysis of the approved Project in the 2013 MND.**

Energy: Energy as a resource issue was not analyzed in the 2013 MND. The project occupies a relatively small footprint, utilizing an adjacent staging area and access route. Gas-powered equipment will be used to execute the construction activities, and language will be included in contracts that equipment must be maintained in good working order. Renewable energy will be utilized as available for equipment. Due to the small footprint of the project and short construction timeline, and requirements for equipment functionality, **the updated project will not result in potentially significant environmental impact or conflict with or obstruct a state or local plan for renewable energy or energy efficiency when compared to the analysis of the approved Project in the 2013 MND.**

Hydrology/Water Quality: The 2013 MND determined that project activities, including grading and filling, could degrade or violate water quality and waste discharge requirements, or alter existing drainage patterns resulting in erosion or flooding. Analysis also determined that the project had the potential to impede or redirect flood flows within a 100-year flood hazard area and expose people or structures to a significant risk of loss, injury, or death from flooding. The increased detail in the 2022 65% engineered design plans describe construction activities more specifically, including the extent of grading, fill volumes, and number of trees removed. Additionally, project proponents have incorporated regulatory responses on required and recommended measures and modifications to ensure the project activities are protective of water quality and will not increase flood elevations. Approvals and permits include 401 Water Quality Certification for Small Habitat Restoration Projects from the State Water Resources Control Board and a Flood Hazard Review from the City of Arroyo Grande. Additional modeling of flood elevations via HEC-RAS modeling, indicating increased channel capacity for storm flows and increased surface water elevations has been completed and is incorporated in the 65% design plans and Tally Ho Technical Memo. **Therefore, the updated project would not result in new or substantially more severe impacts associated with water quality or**

flooding when compared to the analysis of the approved Project in the 2013 MND. Adopted mitigation measures will be implemented, including adoption of a project-specific Stormwater Pollution Prevention Plan, establishment of permanent vegetation cover after project completion, installation of erosion control practices during and following construction, and compliance with any and all applicable regulation associated with floodway management.

Noise: The 2013 MND determined that sensitive receptors adjacent to the project area may be exposed to noise levels in excess of established standards and that the project may generate periodic or temporary increases in ambient noise levels, however impacts would be less than significant with mitigation. The updated project would not result in an increase or change in the amount of noise associated with the project. Therefore, **the updated project would not result in new or substantially more severe impacts associated with construction-related noise when compared to the analysis of the approved Project in the 2013 MND**. Adopted mitigation measures will be implemented.

Determination

In accordance with Section 15164 of the CEQA Guidelines, CSLRCD has determined this Addendum to the 2013 Corbett Creek Floodplain and Creek Restoration Project MND is necessary to document changes or additions that have occurred in the project description since the 2013 MND was originally prepared. No new or more severe environmental impacts beyond those disclosed in the 2013 MND would occur as a result of the updated project. CSLRCD has reviewed and considered the information contained in this Addendum in its consideration of the 2013 MND and finds the preparation of a subsequent CEQA Document is not necessary.

Neil Havlik 4/28/2023

Neil Havlik, President, CSLRCD Board of Directors Date

Jackie Crabb 4/28/2023

Jackie Crabb, CSLRCD Executive Director Date

References

Arroyo Grande Creek Erosion, Sedimentation and Flooding Alternatives Study, Swanson Hydrology & Geomorphology, January 4, 2006

Tally Ho Tech Memo, Waterways Consulting, Inc, 2012

Appendix A: 50% designs for Sediment Basin and Wetland Creation Project

LEGEND

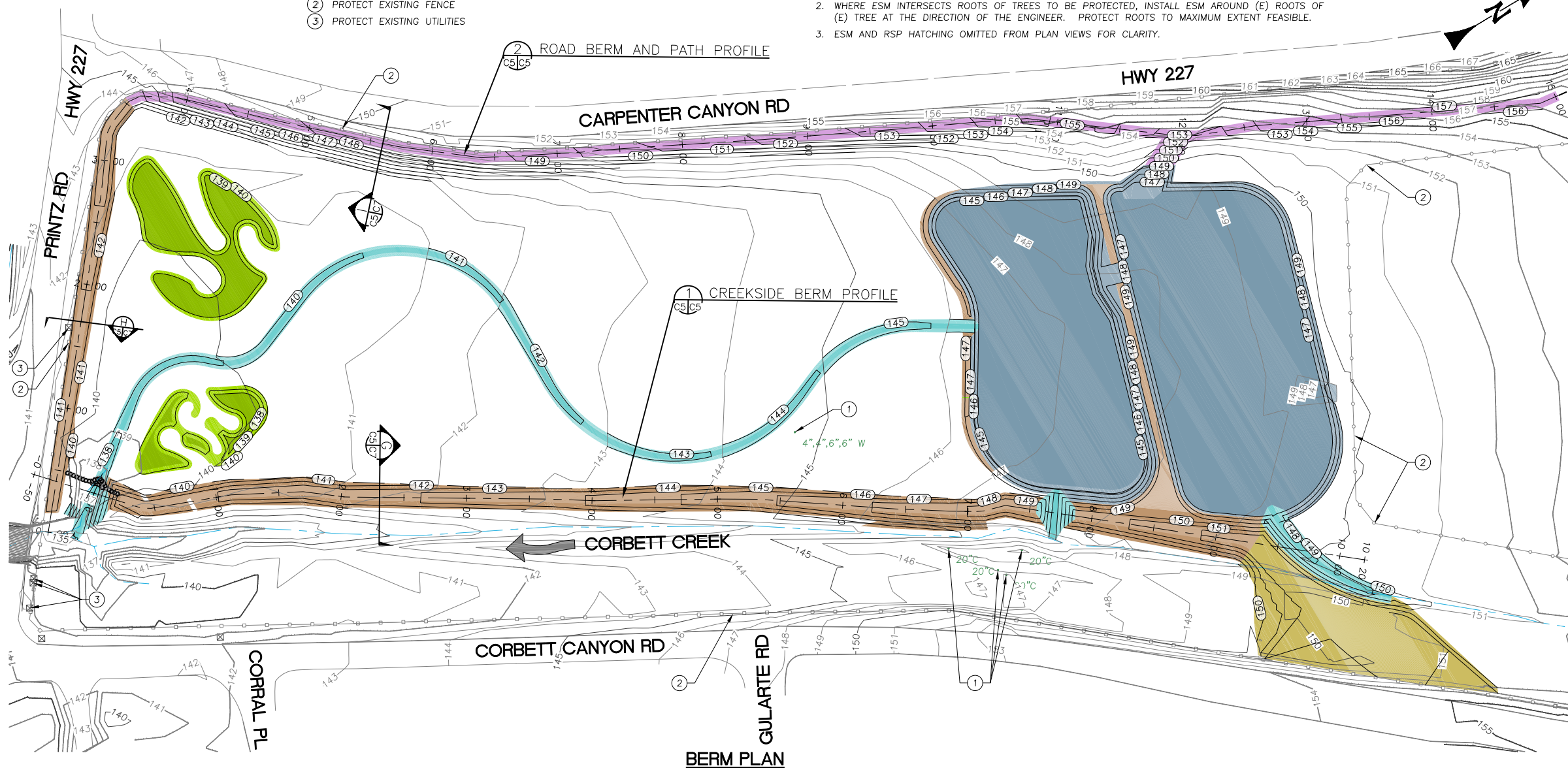
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING FLOW LINE
- PROPOSED ALIGNMENT
- EXISTING FENCE
- PROPOSED SEDIMENTATION POND SIDE SLOPES, SEE SHT. C3
- PROPOSED SEDIMENTATION POND BOTTOM, SEE SHT. C3
- PROPOSED CHANNEL SIDE SLOPES
- PROPOSED CHANNEL BOTTOM
- PROPOSED HABITAT POND SIDE SLOPES, SEE SHT. C4
- PROPOSED HABITAT POND BOTTOM, SEE SHT. C4
- PROPOSED TOP OF BERM
- PROPOSED BERM SIDE SLOPES
- PROPOSED PLUG
- PROPOSED PATH
- 12"A EXISTING TREE (SIZE AND TYPE)
- 12"A EXISTING TREE TO BE REMOVED (SIZE AND TYPE)

KEY NOTES:

1. PROTECT EXISTING TREE
2. PROTECT EXISTING FENCE
3. PROTECT EXISTING UTILITIES

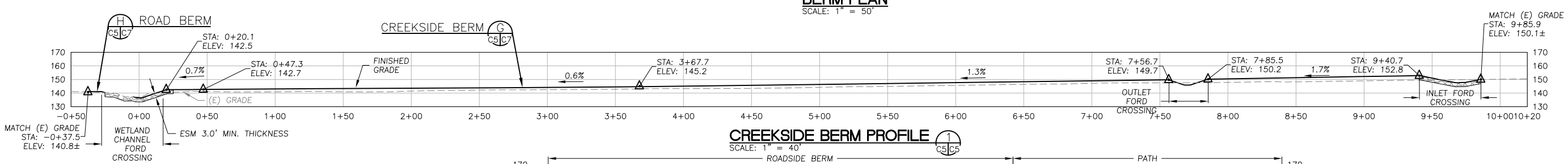
NOTES:

1. PROTECT TREES UNLESS OTHERWISE NOTED.
2. WHERE ESM INTERSECTS ROOTS OF TREES TO BE PROTECTED, INSTALL ESM AROUND (E) ROOTS OF (E) TREE AT THE DIRECTION OF THE ENGINEER. PROTECT ROOTS TO MAXIMUM EXTENT FEASIBLE.
3. ESM AND RSP HATCHING OMITTED FROM PLAN VIEWS FOR CLARITY.



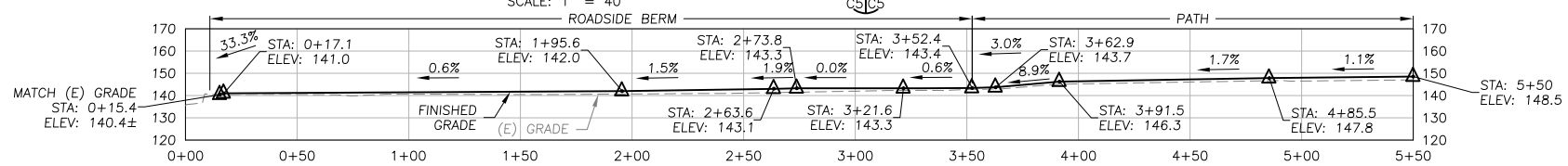
BERM PLAN

SCALE: 1" = 50'



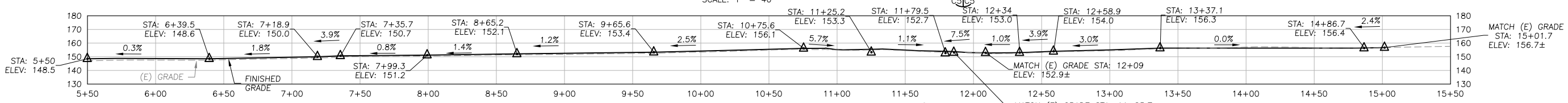
CREEKSIDE BERM PROFILE

SCALE: 1" = 40'



ROAD BERM AND PATH PROFILE

SCALE: 1" = 40'



PATH PROFILE (CONTINUED)

SCALE: 1" = 40'

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SANTA CRUZ, CA 95060
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WWW.WATWAYS.COM

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PREPARED AT THE REQUEST OF:
COASTAL SAN LUIS RESOURCE CONSERVATION DISTRICT
545 MAIN STREET, B-1
MORROW BAY, CA 93442

BERM PLAN AND PROFILES

CLARK PROPERTY SEDIMENTATION BASIN AND WETLANDS CREATION PROJECT
50% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	07/19/17
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

0 1"

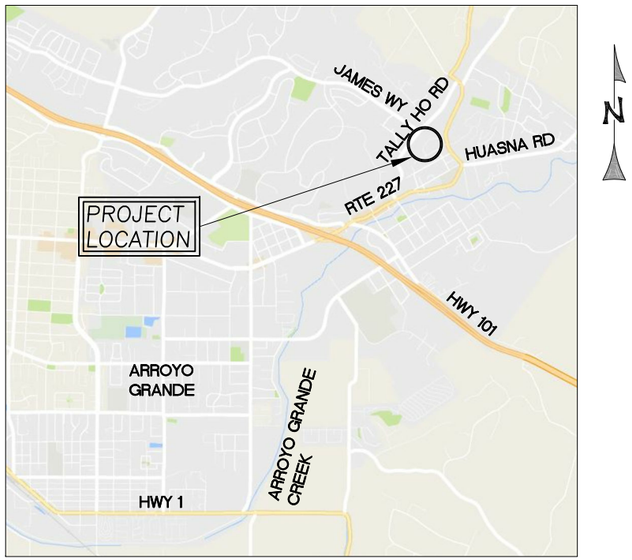
C5

5 OF 9

Appendix B: 65% designs for Stream Channel Restoration

TALLY HO
STREAM STABILIZATION PROJECT

65% DESIGN SUBMITTAL



VICINITY MAP
N.T.S. (GOOGLE)

REGIONAL MAP
N.T.S. (GOOGLE)

GENERAL NOTES

1. TOPOGRAPHIC MAPPING WAS PERFORMED BY:
   SWANSON HYDROLOGY + GEOMORPHOLOGY
   500 SEABRIGHT AVENUE, SUITE 202
   SANTA CRUZ, CA 95062
   SURVEY DATE: NOVEMBER 15, 2007.

   WATERWAYS CONSULTING, INC.
   509A SWIFT STREET
   SANTA CRUZ, CA 95060
   SURVEY DATE: JANUARY 16, 2017.
2. ELEVATION DATUM: AN ASSUMED ELEVATION OF 100.00' WAS ESTABLISHED AT SURVEY CONTROL POINT #1 (½"X24", IRON ROD) SHOWN ON SHT. C2.
3. BASIS OF BEARINGS: BASIS OF BEARINGS BETWEEN POINTS #1 AND #2 IS N00°00'00"E, AS SHOWN ON SHT. C2.
4. CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES ARE NOT SHOWN HEREON.
6. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2015 EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").

** CALL BEFORE YOU DIG **

CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-227-2600

ABBREVIATIONS

AVG.	AVERAGE
CC	CONCRETE
CMP	CORRUGATED METAL PIPE
CY	CUBIC YARDS
DIA.	DIAMETER
E	EXISTING
EG	EXISTING GROUND
ELEV.	ELEVATION
ESL	ENCAPSULATED SOIL LIFT
ESM	ENGINEERED STREAM BED MATERIAL
DI	DRAINAGE INLET
FG	FINISHED GRADE
FT	FEET
HWY	HIGHWAY
INV	INVERT
MIN.	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OHW	ORDINARY HIGH WATER
RC	RELATIVE COMPACTION
RD	ROAD
RSP	ROCK SLOPE PROTECTION
RTE	ROUTE
SHT.	SHEET
SPK	SPIKE
SQ.FT.	SQUARE FOOT
T	TREE
T.B.D.	TO BE DETERMINED
TYP.	TYPICAL
UNK	UNKNOWN
WSE	WATER SURFACE ELEVATION
WY	WAY
YR	YEAR

TREE SPECIES

O	OAK
UNK	UNKNOWN
W	WILLOW

SHEET INDEX

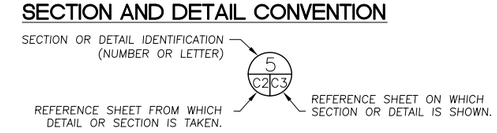
C1	COVER SHEET
C2	EXISTING CONDITIONS
C3	GRADING PLAN AND PROFILE
C4	SECTIONS AND DETAILS
C5	EROSION CONTROL PLAN
C6	NOTES

PROJECT DESCRIPTION

THESE DRAWING PROVIDE 65% DESIGN LEVEL DETAILS FOR THE STABILIZATION OF A HEADCUT AND INCREASE IN CHANNEL CAPACITY FOR A SECTION OF CORBETT CREEK IN ARROYO GRANDE, CALIFORNIA.

WORK SHALL CONSIST OF INSTALLING A BOULDER WIER AT THE EXISTING HEADCUT AND A ROUGHENED CHANNEL COMPOSED OF NATURAL STREAMBED MATERIAL UPSTREAM.

SECTION AND DETAIL CONVENTION



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SANTA CRUZ, CA 95060
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WWW.WATWAYS.COM

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NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

COVER SHEET

TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY: J.H.
DRAWN BY: D.H./C.B.
CHECKED BY: M.W.W.
DATE: 3/30/2022
JOB NO.: 07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

LEGEND

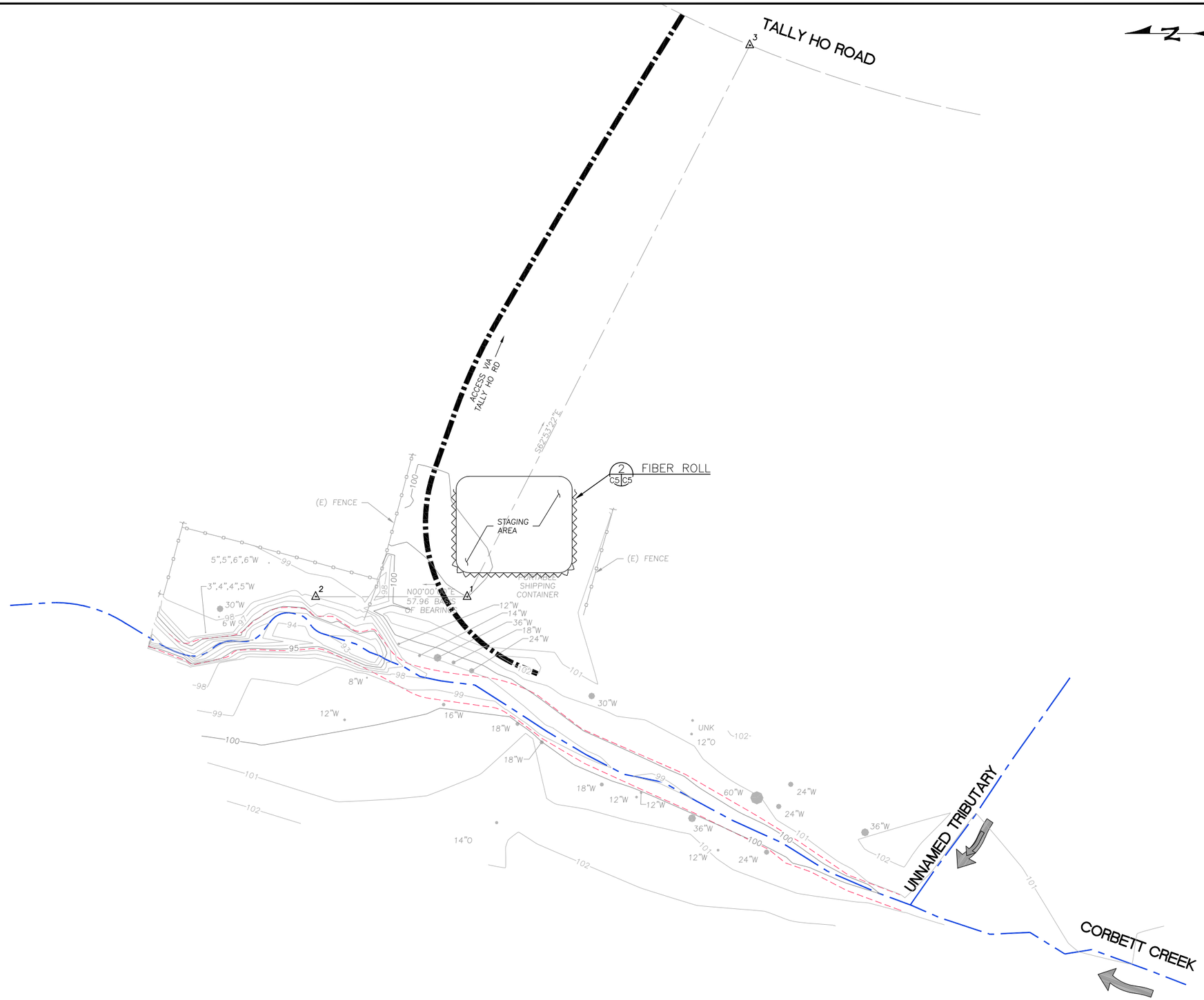
- EXISTING CONTOURS
- EXISTING FLOW LINE
- EXISTING OHW
- EXISTING FENCE
- BASIS OF BEARING
- TEMPORARY ACCESS ROUTE
- FIBER ROLL
- SURVEY CONTROL POINT
- EXISTING TREE (SIZE AND TYPE)

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESC.
1	5000.00	5000.00	100.00	REBAR
2	5057.96	5000.00	98.35	REBAR
3	4891.92	5211.11	105.33	IN CURB

ACCESS AND STAGING AREA NOTES

1. USE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE DRAWINGS. STOCKPILE MATERIALS WITHIN AN EXISTING FLAT AND PREVIOUSLY DISTURBED AREA.
2. THE ACCESS PLAN SHOWN ON THE DRAWINGS IS SCHEMATIC. SUBMIT A SITE ACCESS PLAN FOR APPROVAL BY THE ENGINEER, PRIOR TO MOBILIZATION.
3. CONTAIN THE DOWNSLOPE PERIMETER OF STAGING OR STOCKPILE AREAS WITH SILT FENCE.
4. STORE, MAINTAIN AND REFUEL ALL EQUIPMENT AND MATERIALS IN A DESIGNATED PORTION OF THE STAGING AREA.



EXISTING CONDITIONS

SCALE: 1" = 20'

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PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

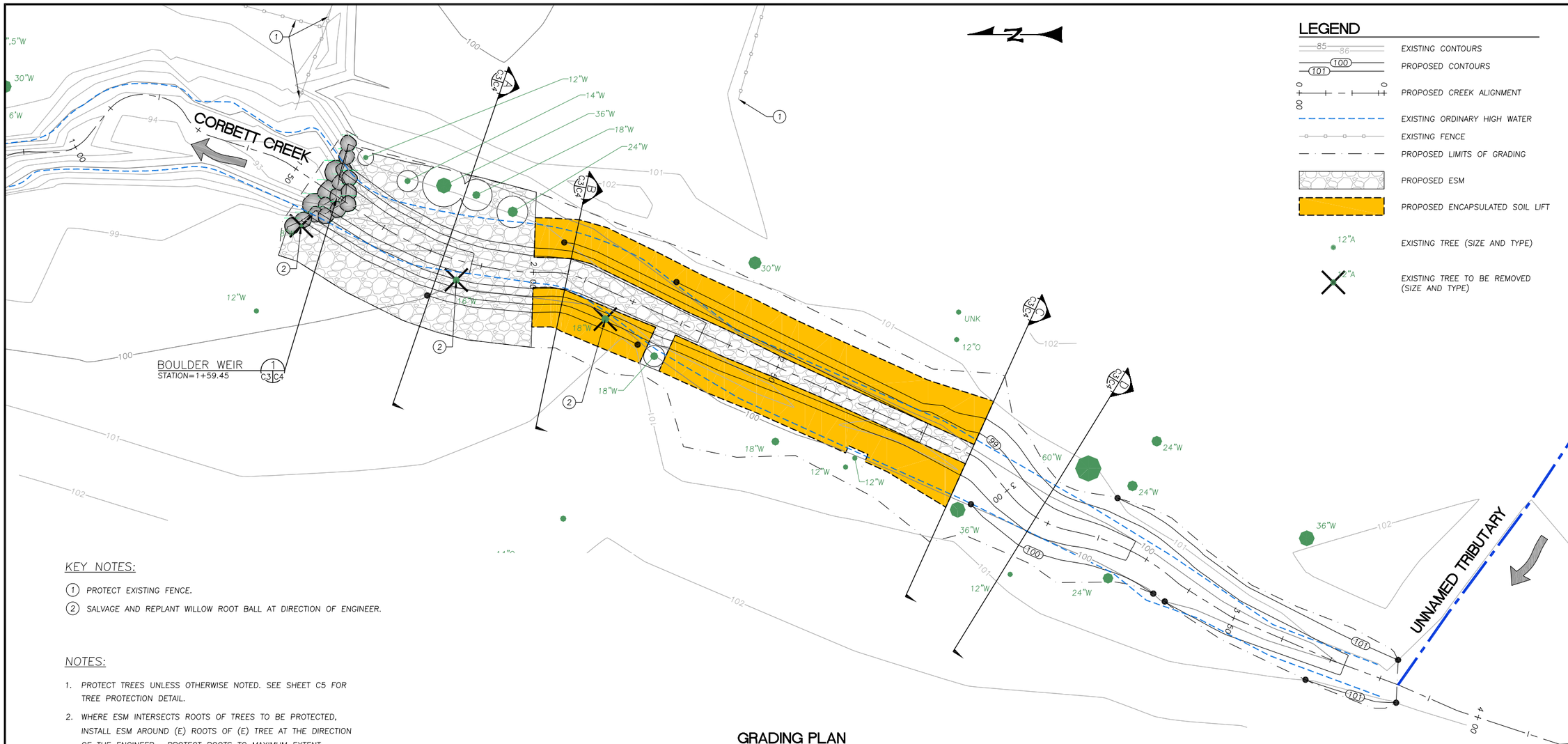
EXISTING CONDITIONS

TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	3/30/2022
JOB NO.:	07-625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

0 1"



KEY NOTES:

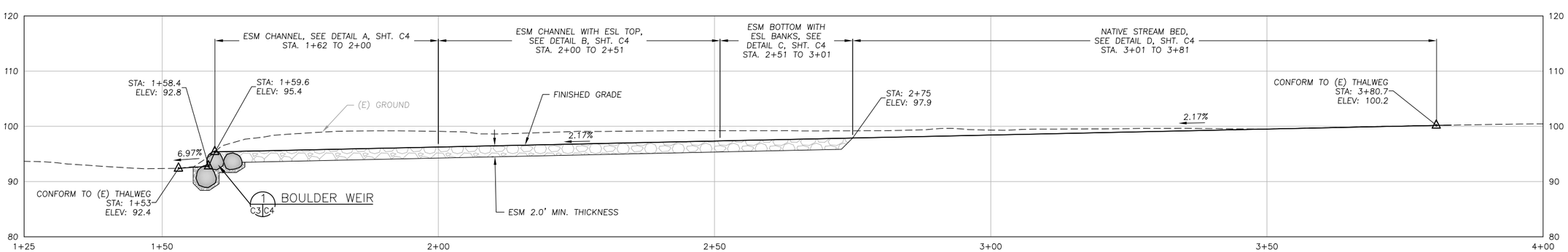
1. PROTECT EXISTING FENCE.
2. SALVAGE AND REPLANT WILLOW ROOT BALL AT DIRECTION OF ENGINEER.

NOTES:

1. PROTECT TREES UNLESS OTHERWISE NOTED. SEE SHEET C5 FOR TREE PROTECTION DETAIL.
2. WHERE ESM INTERSECTS ROOTS OF TREES TO BE PROTECTED, INSTALL ESM AROUND (E) ROOTS OF (E) TREE AT THE DIRECTION OF THE ENGINEER. PROTECT ROOTS TO MAXIMUM EXTENT FEASIBLE.

GRADING PLAN

SCALE: 1" = 10'



GRADING PROFILE

SCALE: 1" = 10'

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PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

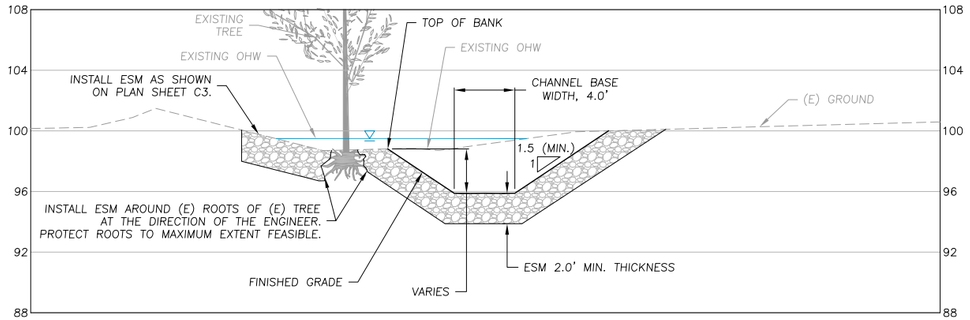
GRADING PLAN AND PROFILE

TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	3/30/2022
JOB NO.:	07-625

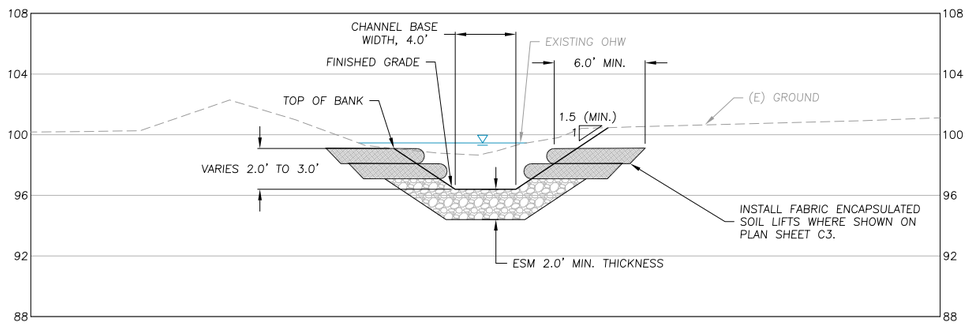
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

0 1"



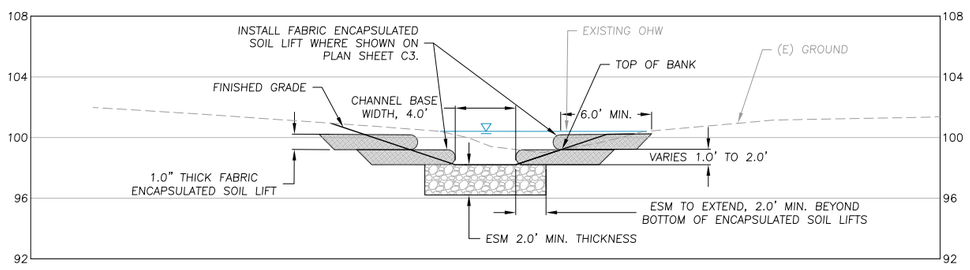
ESM CHANNEL SECTION - STA. 1+83 (A / C3 C4)

SCALE: 1" = 5'



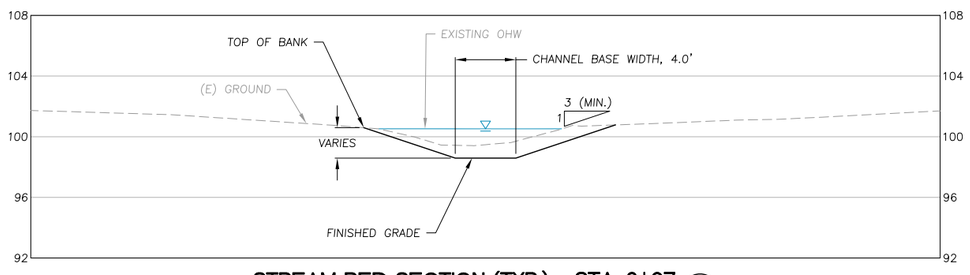
ESM CHANNEL WITH ESL TOP SECTION - STA. 2+07 (B / C3 C4)

SCALE: 1" = 5'



ESM BOTTOM WITH ESL BANKS SECTION - STA. 2+90 (C / C3 C4)

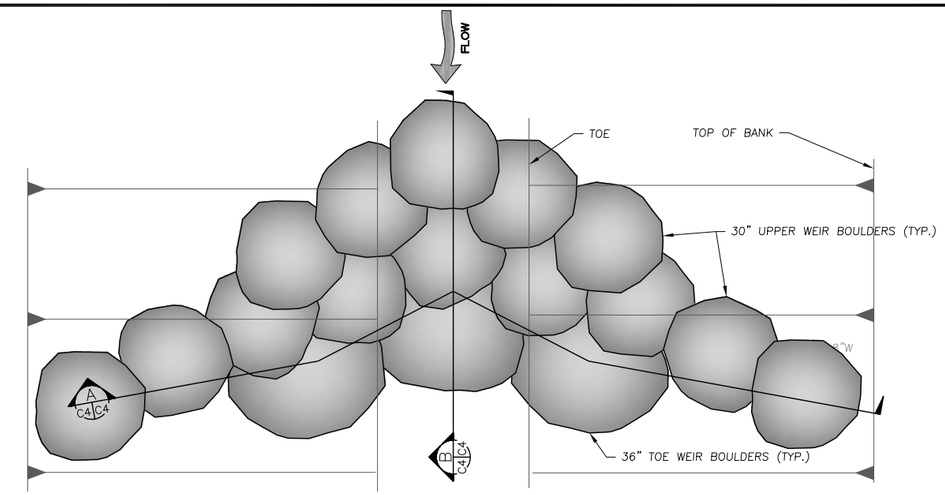
SCALE: 1" = 5'



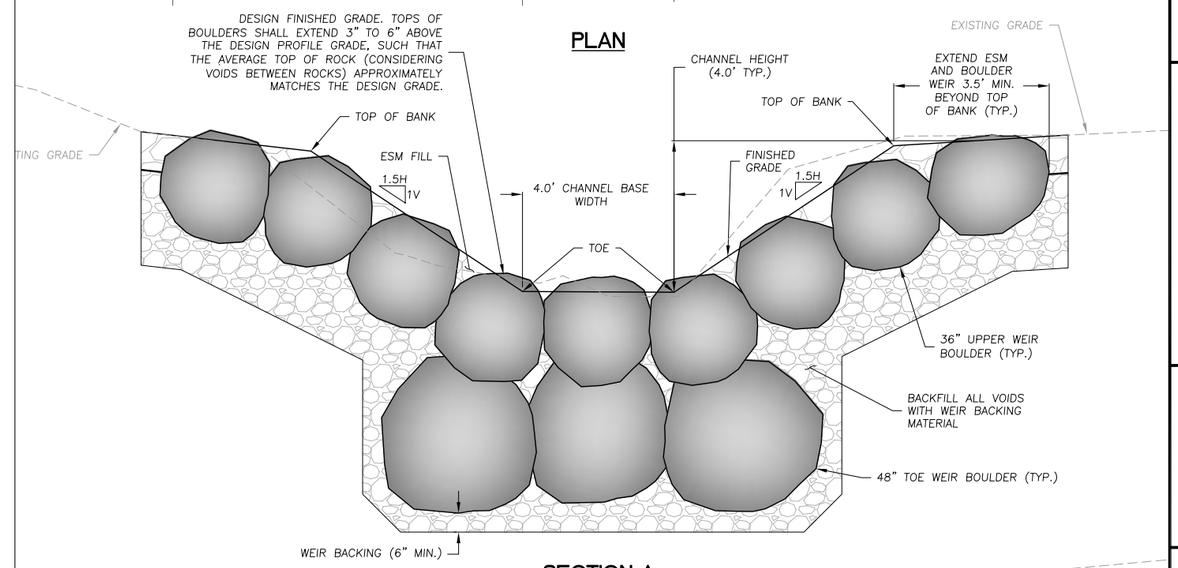
STREAM BED SECTION (TYP.) - STA. 3+07 (D / C3 C4)

SCALE: 1" = 5'

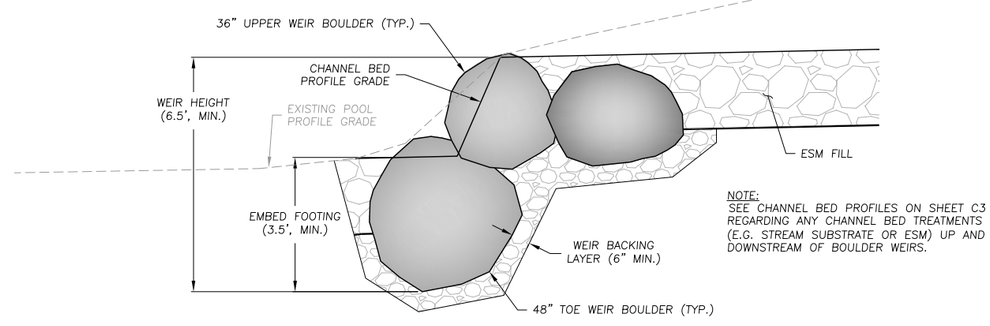
SECTIONS



PLAN



SECTION A



NOTE:
SEE CHANNEL BED PROFILES ON SHEET C3 REGARDING ANY CHANNEL BED TREATMENTS (E.G. STREAM SUBSTRATE OR ESM) UP AND DOWNSTREAM OF BOULDER WEIRS.

SECTION B

BOULDER WEIR DETAIL (1 / C3 C4)

SCALE: 1" = 2'

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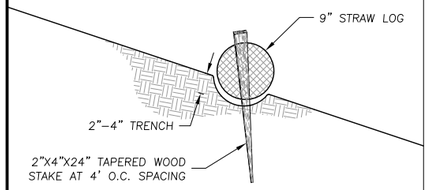
PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

SECTIONS AND DETAILS

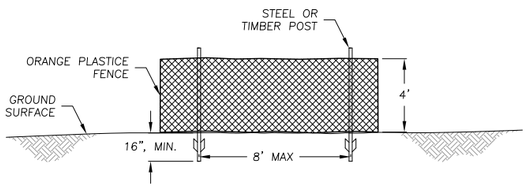
TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	3/30/2022
JOB NO.:	07-625

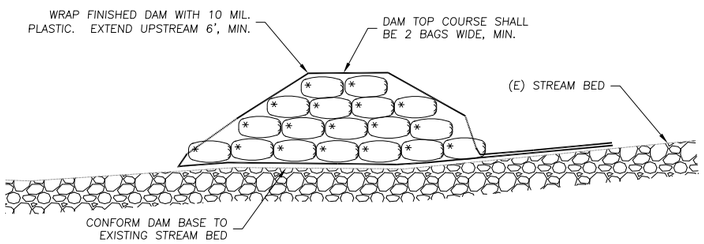
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"



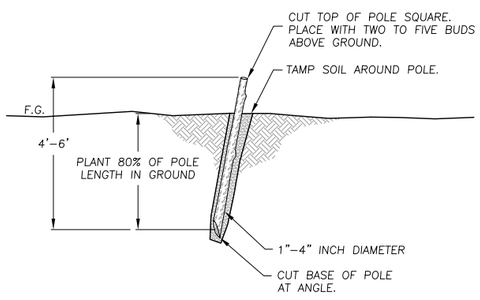
FIBER ROLL DETAIL (1 / C5,C6 C6)
SCALE: 1" = 1'



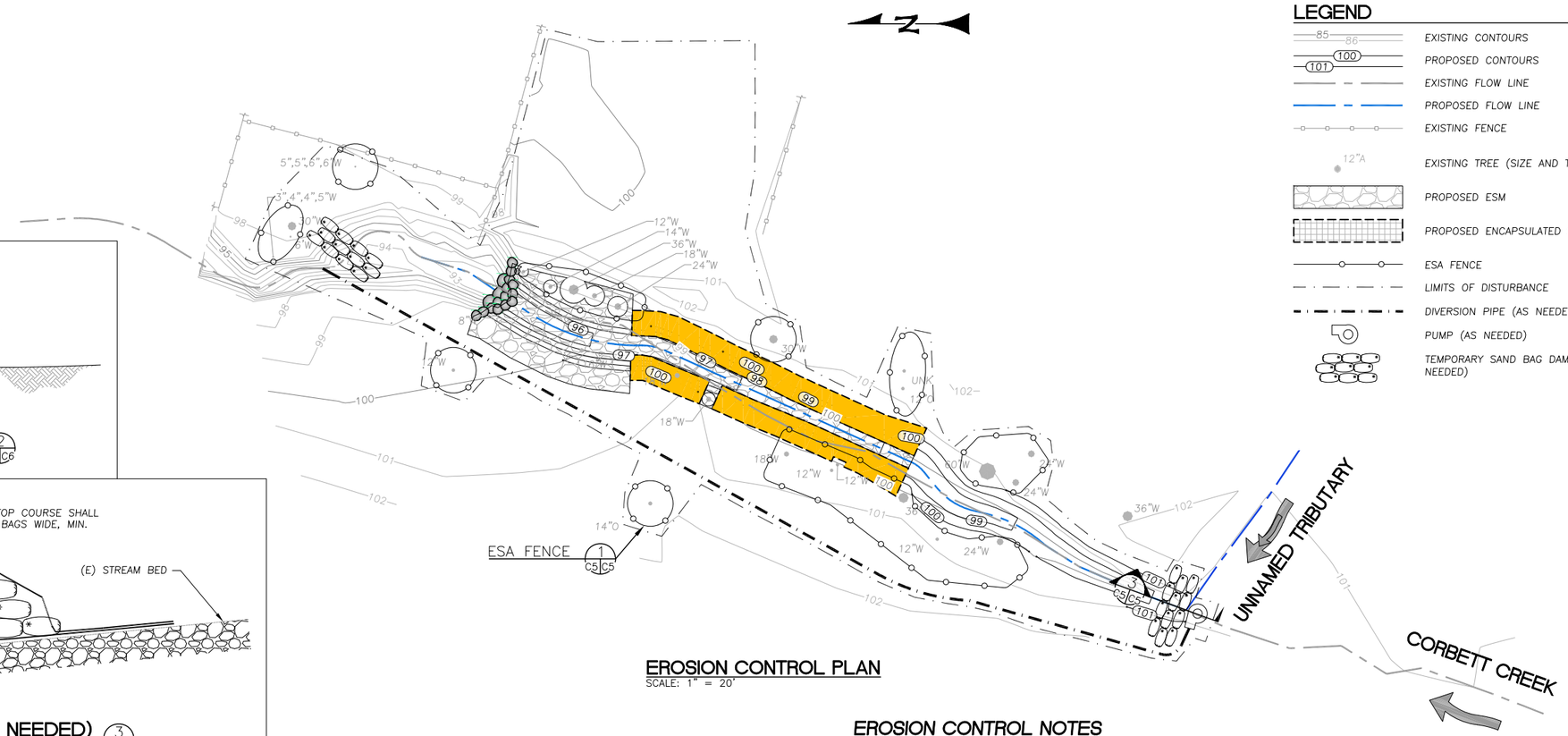
ESA FENCE DETAIL (2 / C6 C6)
SCALE: 1"=4'



DIVERSION DAM DETAIL (AS NEEDED) (3 / C5 C5)
SCALE: 1"=5'



POLE CUTTING DETAIL (4 / C5 C5)
SCALE: 1" = 2'



EROSION CONTROL PLAN
SCALE: 1" = 20'

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING FLOW LINE
- PROPOSED FLOW LINE
- EXISTING FENCE
- EXISTING TREE (SIZE AND TYPE)
- PROPOSED ESM
- PROPOSED ENCAPSULATED SOIL LIFT
- ESA FENCE
- LIMITS OF DISTURBANCE
- DIVERSION PIPE (AS NEEDED)
- PUMP (AS NEEDED)
- TEMPORARY SAND BAG DAM (AS NEEDED)

DUST CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS DUST CONTROL, THROUGHOUT THE CONSTRUCTION, IN ACCORDANCE WITH THE PERMIT CONDITIONS OF APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULAR CLEANING OF ALL MUD, DIRT, DEBRIS, ETC., FROM ANY AND ALL ADJACENT ROADS AND SIDEWALKS, AT LEAST ONCE EVERY 24 HOURS WHEN OPERATIONS ARE OCCURRING.
2. ALL DISTURBED AREAS, INCLUDING UNPAVED ACCESS ROADS OR STORAGE PILES, NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER, CHEMICAL STABILIZER/SUPPRESSANT, OR VEGETATIVE GROUND COVER.
3. ALL GROUND–DISTURBING ACTIVITIES (E.G., CLEARING, GRUBBING, SCRAPING, AND EXCAVATION) SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PRE–SOAKING.
4. ALL MATERIALS TRANSPORTED OFFSITE SHALL BE COVERED OR EFFECTIVELY WETTED TO LIMIT DUST EMISSIONS.
5. FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACES OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER OR CHEMICAL STABILIZER/SUPPRESANT.
6. ONSITE VEHICLE SPEED ON UNPAVED SURFACES SHALL BE LIMITED TO 15 MPH.
7. DISTURBED AREAS SHALL BE SEEDED PRIOR TO OCTOBER 15TH OR EARLIER AS REQUIRED BY THE APPLICABLE PERMIT CONDITIONS.

TABLE 1: SEED MIX

BOTANICAL NAME	COMMON NAME	APPLICATION (LBS/ACRE)
POA SECUNDA	SANDBERG BLUEGRASS	8
BROMUS CARINATUS	CALIFORNIA BROME	8
ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS	SLENDER WHEATGRASS	8
LEYMUS TRITICOIDES	CREEPING WILD RYE	8
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	8
BACCHARIS SALICIFOLIA	MULE FAT	3
LUPINUS BICOLOR	MINATURE LUPINE	2
ACHELLIA MILLEFOLIUM	COMMON YARROW	2
ESCHSHOLZIA CALIFORNICA	CALIFORNIA POPPY	2
ARTEMESIA DOUGLASIANA	MUGWORT	4
	TOTAL	53

EROSION CONTROL NOTES

1. THE EROSION CONTROL PLAN SHOWN IS INTENDED FOR THE SUMMER CONSTRUCTION SEASON (APRIL 15TH TO OCTOBER 15TH). IF THE DRAINAGE FEATURES SHOWN ON THESE DRAWINGS ARE NOT COMPLETED AND DISTURBED AREAS STABILIZED BY OCTOBER 1ST, CONSULT THE ENGINEER FOR ADDITIONAL RAINY SEASON EROSION CONTROL MEASURES.
2. PRIOR TO COMMENCING WORK, PROTECT AREAS TO REMAIN UNDISTURBED WITH ESA FENCING, AS SHOWN ON THE DRAWINGS. ADDITIONAL FENCING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
3. UTILIZE ONLY THE APPROVED HAUL ROADS AND ACCESS POINTS (AS SHOWN ON THE DRAWINGS) FOR TRANSPORT OF MATERIALS AND EQUIPMENT.
4. BETWEEN OCTOBER 15 AND APRIL 15, PROTECT EXPOSED SOIL FROM EROSION AT ALL TIMES. DURING CONSTRUCTION, SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT, STABILIZE ALL EXPOSED SOIL ON DISTURBED SLOPES AGAINST EROSION.
5. MAINTAIN A STANDBY CREW FOR EMERGENCY WORK AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). STOCKPILE NECESSARY MATERIALS AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES.
6. CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING OPERATIONS.
7. INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION.
8. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT THE DISCHARGE OF EARTHEN MATERIALS TO THE CREEK FROM DISTURBED AREAS UNDER CONSTRUCTION AND FROM COMPLETED CONSTRUCTION AREAS.
9. INSTALL ALL PROTECTIVE DEVICES AT THE END OF EACH WORK DAY WHEN THE FIVE–DAY RAIN PROBABILITY EQUALS OR EXCEEDS 50 PERCENT AS DETERMINED FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE: WWW.SRH.NOAA.GOV.
10. AFTER EACH RAINSTORM, REMOVE ALL SILT AND DEBRIS FROM CHECK BERMS AND SEDIMENTATION BASIN AND PUMP THE BASIN DRY.
11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED, OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED, AT THE DISCRETION OF THE ENGINEER.
12. MAINTAIN ALL EROSION CONTROL DEVICES AND MODIFY THEM AS SITE PROGRESS DICTATES.
13. MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
14. CLEAN DAILY ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET.
15. CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
16. BE FAMILIAR WITH THE CONDITIONS OF APPROVAL OF ALL REQUIRED PROJECT PERMITS AND IMPLEMENT ALL REQUIRED BMP'S PRIOR TO COMMENCING SITE DISTURBING ACTIVITIES.
17. PRIOR TO COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS NOT RECEIVING ROCK TREATMENTS SHALL BE STABILIZED, WINTERIZED, MULCHED, AND VEGETATED WITH THE NATIVE SEED MIX IN TABLE 1 AND PLANTED WITH WILLOW (SALIX SPECIES) POLE CUTTING PER DETAIL 4 SHT. C5. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION RATES. SEED MIX SHALL BE PROVIDED BY PRO TIME LAWN SEEDS, OR APPROVED EQUAL. POLE CUTTINGS SHALL BE 0.75" –1.5" DIA., 4' LONG, PLANTED 7' O.C.

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DRAFT
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

EROSION CONTROL PLAN

TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY: J.H.
DRAWN BY: D.H.
CHECKED BY: M.W.W.
DATE: 3/30/2022
JOB NO.: 07–625

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

GENERAL NOTES

1. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS, AS NECESSARY TO ENSURE PROPER INSTALLATION PROCEDURES.

2. EXISTING UNDERGROUND UTILITY LOCATIONS:

   A. CALL UNDERGROUND SERVICE ALERT (1-800-642-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING CONSTRUCTION.

   B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.

   C. EXISTING UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM FIELD MEASUREMENTS TO ABOVE GROUND FEATURES READILY VISIBLE AT THE TIME OF SURVEY. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND DEPTH OF UNDERGROUND UTILITIES.

   D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.

   E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.

   F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

   G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WRITING.

   H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.

3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.

5. ANY TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.

6. PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.

9. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOR THE PRESENCE OF CONSULTANT OR HIS OR HER EMPLOYEES OR SUB-CONSULTANTS AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REGULATORY AGENCY OR OF STATE LAW.

10. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.

11. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS WITHIN APPROVED STAGING AREAS.

12. PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS. DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR.

15. TREE DIMENSIONS: TRUNK DIAMETERS SHOWN REPRESENT DIAMETER AT BREAST HEIGHT (DBH), MEASURED IN INCHES. DBH IS MEASURED 4.5 FT ABOVE GROUND FOR SINGLE TRUNKS AND TRUNKS THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND. THE DBH FOR TREES THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND MAY BE CONSOLIDATED INTO A SINGLE DBH BY TAKING THE SQUARE ROOT OF THE SUM OF ALL SQUARED STEM DBH'S, UNLESS OTHERWISE NOTED. WHERE TREES FORK NEAR BREAST HEIGHT, TRUNK DIAMETER IS MEASURED AT THE NARROWEST PART OF THE MAIN STEM BELOW THE FORK. FOR TREES ON A SLOPE, BREAST HEIGHT IS REFERENCED FROM THE UPPER SIDE OF THE SLOPE. FOR LEANING TREES, BREAST HEIGHT IS MEASURED ON THE SIDE THAT THE TREE LEANS TOWARD. TREES WITH DBH LESS THAN 8" ARE TYPICALLY NOT SHOWN.

    12"W = 12" DBH WILLOW

16. TREE SPECIES ARE IDENTIFIED WHEN KNOWN. HOWEVER, FINAL DETERMINATION SHOULD BE MADE BY A QUALIFIED BOTANIST. REFER TO THE LEGEND FOR TREE SPECIES SYMBOLS.

17. TREE TRUNK DIMENSIONS MAY BE SHOWN OUT-OF-SCALE FOR PLOTTING CLARITY. CAUTION SHOULD BE USED IN DESIGNING NEAR TREE TRUNKS. THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED. INDIVIDUAL TREES ARE NOT TYPICALLY LOCATED WITHIN DRIPLINE CANOPY AREAS SHOWN.

18. APPROXIMATE CENSUS OF TREES TO BE REMOVED:

COMMON NAME	NUMBER
WILLOW	3
TOTAL:	3

19. WILLOWS TO BE REMOVED SHALL BE TRIMMED, TRANSPLANTED, AND REPLANTED AT DIRECTION OF OWNER'S REPRESENTATIVE.

20. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER SECTION 8771 OF THE PROFESSIONAL LAND SURVEYORS ACT FILED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY OF ARROYO GRANDE. COPIES OF ANY RECORD OF SURVEY OR CORNER RECORDS SHALL BE SUBMITTED TO THE CITY.

21. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

22. CULTURAL RESOURCES: IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHALL CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA.

EARTHWORK NOTES

1. GRADING SUMMARY:

TOTAL CUT VOLUME =	120	CY
TOTAL FILL VOLUME =	1	CY
OFFHAUL =	119	CY

THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED. THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS.

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.

2. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER.

3. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORN SOLELY BY THE CONTRACTOR.

4. REMOVE ALL EXCESS SOILS TO AN APPROVED DUMP SITE OR DISPOSE OF ON SITE AT A LOCATION TO BE APPROVED BY THE ENGINEER, IN A MANNER THAT WILL NOT CAUSE EROSION.

5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 19 OF THE STANDARD SPECIFICATIONS, THESE DRAWINGS, AND THE TECHNICAL SPECIFICATIONS.

6. PRIOR TO STARTING WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE BY THE ENGINEER A HAZARDOUS MATERIALS CONTROLS AND SPILL PREVENTION PLAN. THE PLAN SHALL INCLUDE PROVISIONS FOR PREVENTING HAZARDOUS MATERIALS FROM CONTAMINATING SOIL OR ENTERING WATER COURSES, AND SHALL ESTABLISH A SPILL PREVENTION AND COUNTERMEASURE PLAN.

7. UNSUITABLE SOIL OR MATERIALS, NOT TO BE INCLUDED IN THE WORK INCLUDE:

   A. ORGANIC MATERIALS SUCH AS PEAT, MULCH, ORGANIC SILT OR SOD.
   B. SOILS CONTAINING EXPANSIVE CLAYS.
   C. MATERIAL CONTAINING EXCESSIVE MOISTURE.
   D. POORLY GRADED COURSE MATERIAL, PARTICLE SIZE IN EXCESS OF 6 INCHES.
   E. MATERIAL WHICH WILL NOT ACHIEVE SPECIFIED DENSITY OR BEARING.

8. FINE GRADING ELEVATIONS, CONFORMS, AND SLOPES NOT CLEARLY SHOWN ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD TO DIRECT DRAINAGE TO PROTECTED DRAINAGE CONTROL STRUCTURES OR NATURAL WATERWAYS IN A MANNER THAT SUPPORTS THE INTENT OF THE DESIGN. ALL FINAL GRADING SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

9. THE TOP 6" OF SUBGRADE UNDER ALL PAVED SURFACES SUBJECT TO VEHICULAR USE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION, IN ACCORDANCE WITH ASTM-D1557. ALL OTHER FILL TO BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY ASTM-D1557 AND SO CERTIFIED BY TESTS AND REPORTS FROM THE CIVIL ENGINEER IN CHARGE OF THE GRADING CERTIFICATION.

10. FILL MATERIAL SHALL BE SPREAD IN LIFTS OF APPROXIMATELY 8 INCHES, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED. THE MATERIALS FOR ENGINEERED FILL SHALL BE APPROVED BY A REGISTERED CIVIL ENGINEER. ANY IMPORTED MATERIALS MUST BE APPROVED BEFORE BEING BROUGHT TO THE SITE. THE MATERIALS USED SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.

11. ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL SHALL BE EITHER HORIZONTAL OR VERTICAL. ALL ORGANIC MATERIAL SHALL BE REMOVED AND THE REMAINING SURFACE SCARIFIED TO A DEPTH OF AT LEAST 12 INCHES, UNLESS DEEPER EXCAVATION IS REQUIRED BY THE ENGINEER.

DIVERSION NOTES

THE DIVERSION PLAN SHOWN IS SCHEMATIC. GENERAL REQUIREMENTS ARE PROVIDED BELOW. THE FULL REQUIREMENTS OF THE DIVERSION AND DEWATERING PLAN ARE SPECIFIED IN THE PROJECT TECHNICAL SPECIFICATIONS.

1. GENERAL
   1.1. DEWATER THE PROJECT SITE AS REQUIRED TO FACILITATE IN-STREAM CONSTRUCTION AND TO REDUCE THE POTENTIAL IMPACTS TO WATER QUALITY DOWNSTREAM OF THE PROJECT SITE.
   1.2. CONFIRM THAT A FAVORABLE LONG TERM WEATHER FORECAST (1 WEEK, MIN.) IS OBSERVED PRIOR TO PLACEMENT OF DIVERSION STRUCTURES.
   1.3. PRIOR TO PLACEMENT OF DIVERSION STRUCTURE, REMOVE FISH FROM THE PROJECT REACH, IN ACCORDANCE WITH SECTION 2.
   1.4. DIVERT FLOW ONLY WHEN THE DIVERSION CONSTRUCTION IS COMPLETE. FOLLOWING ENGINEER'S APPROVAL OF THE COMPLETED WORK, REMOVE DIVERSION BEGINNING AT THE DOWNSTREAM LIMIT, IN AN UPSTREAM DIRECTION.

2. FISH REMOVAL
   2.1. FISH SHALL BE REMOVED FROM THE PROJECT SITE BY A QUALIFIED FISHERIES BIOLOGIST, AUTHORIZED TO PERFORM SUCH ACTIVITIES BY THE NATIONAL MARINE FISHERIES SERVICE AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
   2.2. BLOCK NETS SHALL BE PROVIDED AND INSTALLED BY THE FISHERIES BIOLOGIST. BLOCK NETS SHALL BE MAINTAINED BY THE CONTRACTOR BOTH UPSTREAM AND DOWNSTREAM OF THE DIVERSION, THROUGHOUT THE PERIOD OF CONSTRUCTION. MAINTENANCE INCLUDES PERIODIC REMOVAL OF ACCUMULATED DEBRIS, AS NECESSARY TO ENSURE FUNCTION. BLOCK NETS SHALL BE REMOVED BY THE FISHERIES BIOLOGIST AFTER THE DIVERSION IS REMOVED AND THE IN CHANNEL WORK AREA IS RE-WATERED.

3. DIVERSION SYSTEM
   3.1. INSTALL A TEMPORARY SANDBAG BERM AT THE UPSTREAM END OF THE PROJECT AREA AND CONVEY CREEK FLOW AROUND THE PROJECT VIA GRAVITY OR PUMPING. NO OTHER DIVERSION METHOD SHALL BE USED WITHOUT AUTHORIZATION OF THE ENGINEER. IF AN ALTERNATE DIVERSION METHOD IS PREFERRED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL, DETAILING THE DESIRED DIVERSION METHOD.
   3.2. THE DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON DETAIL 3, SHEET C5, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
   3.3. IN THE EVENT OF A SIGNIFICANT STORM, THE CONTRACTOR SHALL BE PREPARED TO TAKE NECESSARY MEASURES TO INSURE SAFE PASSAGE OF STORM WATER FLOW THROUGH THE PROJECT AREA, WITHOUT DAMAGE TO EXISTING STRUCTURES, OR INTRODUCTION OF EXCESSIVE SEDIMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY EROSION CONTROL B.M.P.'S.
   3.4. THE DIVERSION SHALL BE CAPABLE OF CONVEYING 900 GPM (2 CFS) WITH LESS THAN 6 INCHES OF HEAD OVER THE TOP OF PIPE AT THE INLET, AND SHALL BE A MINIMUM DIAMETER OF 12", WITH A MANNING'S ROUGHNESS NOT EXCEEDING .012.

4. DEWATERING OF CONSTRUCTION AREAS
   4.1. CONTRACTOR SHALL SUPPLY ALL NECESSARY PUMPS, PIPING, FILTERS, SHORING, AND OTHER TOOLS AND MATERIALS NECESSARY FOR DEWATERING.
   4.2. ANY DEWATERING ACTIVITIES WHICH MAY BE REQUIRED FOR CONSTRUCTION PURPOSES SHALL BE CONDUCTED IN A MANNER WHICH DOES NOT VIOLATE ANY WATER QUALITY STANDARDS ESTABLISHED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.
   4.3. DISCHARGE OF WATER FROM THE DEWATERED CONSTRUCTION SITE, EITHER BY GRAVITY OR PUMPING, SHALL BE PERFORMED IN A MANNER THAT PREVENTS EXCESSIVE TURBIDITY FROM ENTERING THE RECEIVING WATERWAYS AND PREVENTS SCOUR AND EROSION OUTSIDE OF THE CONSTRUCTION SITE. PUMPED WATER SHOULD BE PRE-FILTERED WITH SAND/GRAVEL PACK AROUND SUMPS FOR SUBSURFACE FLOWS AND A SILT FENCE OR HAY BALES AROUND PUMPS FOR SURFACE FLOW. PUMPED WATER SHALL BE DISCHARGED INTO ISOLATED LOCAL DEPRESSIONS, FILTER BAGS, SETTLING (BAKER) TANKS, OR TEMPORARY SEDIMENT BASINS, AS NECESSARY TO MEET WATER QUALITY REQUIREMENTS. WHERE WATER TO BE DISCHARGED INTO THE CREEK WILL CREATE EXCESSIVE TURBIDITY, THE WATER SHALL BE ROUTED THROUGH A SEDIMENT INTERCEPTOR OR OTHER FACILITIES TO REMOVE SEDIMENT FROM WATER.

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NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
CITY OF ARROYO GRANDE
214 E BRANCH STREET
ARROYO GRANDE, CA 93420

NOTES

TALLY HO STREAM STABILIZATION PROJECT
65% DESIGN SUBMITTAL

DESIGNED BY:	J.H.
DRAWN BY:	D.H.
CHECKED BY:	M.W.W.
DATE:	3/30/2022
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