

TO: Board of Supervisors

FROM: Planning and Building Services

MEETING DATE: March 24, 2020

DEPARTMENT CONTACT: Jessie Waldman

PHONE: 964-5379

DEPARTMENT CONTACT: Brent Schultz

PHONE: 234-6650

ITEM TYPE: Consent Agenda

TIME ALLOCATED FOR ITEM: N/A

AGENDA TITLE:

Adoption of Resolution of the Board of Supervisors Authorizing the Processing of a Consolidated Coastal Development Permit by the California Coastal Commission for the Nature Conservancy to Increase Winter Survival and Rearing Capacity for Coho Salmon in the South Fork of the Ten Mile River.

RECOMMENDED ACTION/MOTION:

Adopt a Resolution of the Board of Supervisors authorizing the processing of a Consolidated Coastal Development Permit by the California Coastal Commission for the Nature Conservancy to increase winter survival and rearing capacity for Coho Salmon in the South Fork of the Ten Mile River, and authorize Chair to sign name.

PREVIOUS BOARD/BOARD COMMITTEE ACTIONS:

CDP_2017-0025 (Phase 1 of project) – Resolution 17-140 approved on October 3, 2017.

SUMMARY OF REQUEST:

The Nature Conservancy proposes to increase winter survival and rearing capacity for Coho Salmon in the South Fork of the Ten Mile River by constructing a single off channel seasonal flooded wetland, a side channel to maintain and redirect accessibility from the active channel to the historic flood plan, and 13 large wood habitat structures. Mapping from the California Coastal Commission has confirmed that the 13 large wood habitat structures are under the Coastal Commission jurisdiction, while the off-channel seasonal pond and side channel are in Mendocino County jurisdiction. The Coastal Act was amended by Senate Bill 1843 effective January 1, 2007, which allows for a consolidated permitting process for projects for which the Coastal Development Permit authority is shared by a local government and the State Coastal Commission. Therefore, the Nature Conservancy is seeking a resolution which would consolidate the permit review under the Coastal Commission for this specific project only, and streamline the permit process. In support of this proposed consolidation request is that consolidation of the Coastal Development Permit would not substantially impair public participation in the review of the Coastal Development Permit, as a public hearing will still be held by the Coastal Commission and may be attended by interested parties or interested parties may submit written comments to the Coastal Commission.

ALTERNATIVE ACTION/MOTION:

Reject the Resolution and direct staff to process a Coastal Development Permit for that portion of the project located in the County's jurisdiction.

SUPPLEMENTAL INFORMATION AVAILABLE ONLINE AT: N/A

FISCAL IMPACT:

SOURCE OF FUNDING: N/A

BUDGETED IN CURRENT F/Y: N/A

CURRENT F/Y COST: N/A

ANNUAL RECURRING COST: N/A

SUPERVISORIAL DISTRICT: DISTRICT 4

VOTE REQUIREMENT: MAJORITY

AGREEMENT/RESOLUTION/ORDINANCE APPROVED BY COUNTY COUNSEL: Yes

CEO LIAISON:

CEO REVIEW:
CEO COMMENTS:

FOR COB USE ONLY

Executed By:	Final Status:
Date:	Executed Item Number:
Note to Department:	

BOARD ACTION	Date of Meeting _____
<input type="checkbox"/> Approved _____	<input type="checkbox"/> Referred to _____
<input type="checkbox"/> Records Executed _____	<input type="checkbox"/> Other _____



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES
860 NORTH BUSH STREET • UKIAH • CALIFORNIA • 95482
120 WEST FIR STREET • FT. BRAGG • CALIFORNIA • 95437

BRENT SCHULTZ, DIRECTOR
PHONE: 707-234-6650
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FB FAX: 707-961-2427
pbs@mendocinocounty.org
www.mendocinocounty.org/pbs

March 9, 2020

**PUBLIC NOTICE OF PENDING ACTION AUTHORIZING
CONSOLIDATED COASTAL DEVELOPMENT PERMIT**

NOTICE IS HEREBY GIVEN THAT the Mendocino County Board of Supervisors at its regular meeting to be held on March 24, 2020, in the Board of Supervisors Chambers, 501 Low Gap Road, Room 1070, Ukiah, California at 9:00 a.m. or as soon thereafter as the item may be considered, will consider adoption of a resolution for the following project authorizing processing of a Consolidated Coastal Development Permit:

CASE#: CDP_2020-0005

DATE FILED: 2/4/2020

OWNER: MARGARET PERRY

APPLICANT: THE NATURE CONSERVANCY

AGENT: PRUNUSKE CHATHAM, INC.

REQUEST: Adoption of Resolution of the Board of Supervisors Authorizing the Processing of a Consolidated Coastal Development Permit by the California Coastal Commission for the Nature Conservancy to implement Phase 1B to increase winter survival and rearing capacity for Coho Salmon on the South Fork of the Ten Mile River.

ENVIRONMENTAL DETERMINATION: CEQA determination will be made by Lead Agency. The County is not the Lead Agency on this project.

LOCATION: In the Coastal Zone, located 1± mile east of Highway 1 on Camp 1 Ten Mile Road, at 28761 N Highway 1 and 31171 Camp 1 Ten Mile Road (APN's 069-070-11, 069-070-12 and 069-070-13).

SUPERVISORIAL DISTRICT: 4

STAFF PLANNER: JESSIE WALDMAN

As you are an adjacent property owner and/or interested party, you are invited to appear before the Board, or to direct written comments to this office at the above address or to the Board of Supervisors, 501 Low Gap Road, Room 1070, Ukiah, California, 95482. If you would like to be notified of the Board of Supervisor's action, please submit a written request to this office. All correspondence should contain reference to the above noted case number.

Requests for resolutions authorizing Consolidated Coastal Development Permits are considered on the consent calendar, and the Board of Supervisors will not conduct a public hearing on this item.

Action on the request is final.

If you challenge the above action in court, you may be limited to raising only those issues described in this notice or that you or someone else raised at the meeting, or in written correspondence delivered to the Board of Supervisors at, or prior to, any meeting.

Additional information regarding the above noted case may be obtained prior to the Board of Supervisors meeting by calling the Clerk of the Board at 707-463-4441, Monday through Friday.

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE. Mendocino County complies with ADA requirements and upon request, will attempt to reasonably accommodate individuals with disabilities by making meeting material available in appropriate alternate formats (pursuant to Government Code Section 54953.2). Anyone requiring reasonable accommodation to participate in the meeting should contact the Clerk of the Board by calling (707) 463-4441 at least five days prior to the meeting.

BRENT SCHULTZ, Director of Planning and Building Services



COUNTY OF MENDOCINO

DEPARTMENT OF PLANNING AND BUILDING SERVICES

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pbs@mendocinocounty.org

www.mendocinocounty.org/pbs

MEMORANDUM

DATE: March 24, 2020
TO: Honorable Board of Supervisors
FROM: Jessie Waldman, Planner I
SUBJECT: **CDP_2020-0005** - The Nature Conservancy, Various improvements to the South Fork of the Ten Mile River to increase winter survival and rearing capacity for Coho Salmon

The Nature Conservancy (applicant) is working to increase winter survival and rearing capacity of Coho Salmon through a variety of improvements to the South Fork of the Ten Mile River. The applicant has requested a consolidated coastal development permit to process all improvements under one permit, expediting the review process. The proposed improvements are the second phase, Phase 1B, of habitat restoration implementation by the Nature Conservancy, where Phase 1A, was constructed in 2018, per *CDP_2017-0025 – Resolution 17-140*.

The proposed improvements include a single off channel seasonal flooded wetland, a side channel to maintain and redirect accessibility from the active channel to the historic floodplain, and 13 large wood habitat structures. Mapping from the California Coastal Commission has confirmed that the 13 large wood habitat structures are under the Coastal Commission jurisdiction, while the off-channel seasonal flooded wetland and side channel are in Mendocino County jurisdiction. The attached *Parcels Map* show the exact location of proposed improvements. Each proposed improvement is considered development as defined in Mendocino County Code (MCC) Section 20.308.035, and therefore the improvements in each jurisdiction would require a Coastal Development Permit, as per MCC Section 20.532.010.

The proposed consolidation request, by the Nature Conservancy, would allow for streamlined processing of this project. The alternative would be the processing of multiple Coastal Development Permits by multiple jurisdictions, which would not allow analysis of the project as a whole. By authorizing the consolidation, the Board of Supervisors would allow the California Coastal Commission to process a Coastal Development Permit for the proposed improvements to the Ten Mile River. Otherwise, a separate Coastal Development Permit would be processed by both jurisdictions, California Coastal Commission and Mendocino County, for the improvements within each jurisdiction. However, at the request of the applicants, the Nature Conservancy, a resolution is being sought which would consolidate the permit review process under the California Coastal Commission for the specific project only, and streamline the permit process.

RECOMMENDATION: Adopt a Resolution of the Board of Supervisors authorizing the processing of a Consolidated Coastal Development Permit by the California Coastal Commission for the Nature Conservancy to increase winter survival and rearing capacity for Coho Salmon in the South Fork of the Ten Mile River, and authorize Chair to sign name.

ATTACHMENTS:

- A. The Nature Conservancy Consolidation Request, dated January 7, 2019
- B. Location Map
- C. Appeal Area
- D. Parcels Map
- E. Project Plans submitted by The Nature Conservancy
- F. *CDP_2017-0025 - Resolution 17-140*



January 7, 2019

Julia Acker Krog, Chief Planner
Mendocino County Department of Planning & Building Services
120 West Fir Street
Fort Bragg, CA 95437

Dear Julia,

The Nature Conservancy (TNC) is proposing to implement the next phase of restoration projects to increase winter survival and rearing capacity for coho salmon on the Ten Mile River South Fork. The South Fork Ten Mile Habitat Enhancement Phase 1B project will include excavation of a new side channel and construction of several large wood habitat structures, engineered log jams, and a seasonally flooded alcove. The project sites are split between Coastal Commission coastal jurisdiction and Mendocino County coastal jurisdiction.

Pursuant to Public Resource Code Section 30601.3, TNC is requesting that the project be consolidated and processed by the California Coastal Commission.

The following items are enclosed for your review:

- Project plans
- Project site map
- Fee check
- Landowner letter of authorization
- Phase 1A Resolution No. 17-140 and Cover Letter to CCC

This project is the second phase (Phase 1B) of TNC's restoration of this reach of the South Fork Ten Mile. The first phase (Phase 1A) was constructed in summer 2018. A similar consolidation request was processed by Mendocino County for that phase of the project in October 2017 and the signed resolution and cover letter are attached.

TNC is working with Prunuske Chatham, Inc. (PCI), to design, permit, and implement the project. If you have questions or need additional information, please contact Peter van de Burgt, PCI environmental planner, at (707) 824-4601 x126 or peter@pcz.com.

Sincerely,

David Wright
The Nature Conservancy

ATTACHMENT A

**COUNTY OF MENDOCINO
DEPT. OF PLANNING & BUILDING SERVICES**

**120 WEST FIR STREET
FORT BRAGG, CA 95437
Telephone: (707)-964-5379**

Case No(s) _____
Date Filed _____
Fee \$ _____
Receipt No. _____
Received by _____

Office Use Only

LCP CONSISTENCY REVIEW APPLICATION FORM

Name of Applicant
The Nature Conservancy
(Contact: Dave Wright)

Name of Owner(s)
Margaret Perry
Susan Lampman

Name of Agent
Prunuske Chatham, Inc.
(Contact: Peter van de Burgt)

Mailing Address
201 Mission Street, 4th Floor
San Francisco, CA 94105

Mailing Address
28761 N. Highway 1
Fort Bragg, CA 95437

Mailing Address
400 Morris Street, Suite G
Sebastopol, CA 95472

Telephone Number
(707) 357-4933

Telephone Number
(707) 964-3761

Telephone Number
(707) 824-4601 ext. 126

Project Description:

The South Fork Ten Mile Habitat Enhancement Phase 1B project will increase winter rearing habitat for coho salmon and other salmonids. The project includes construction of in-channel and off-channel habitat elements at four sites along an approximately 3,000-linear-foot stretch of the river. At site SF10, five large wood structures will be constructed in the channel to provide habitat complexity, capture woody debris and sediment, and restore geomorphic processes in the stream. At the adjacent SF11 site, a seasonally flooded off-channel wetland will be constructed to provide high flow refugia for juvenile salmonids. Just upstream of SF11, three more large wood structures will be constructed in the channel to improve wood recruitment and enhance in-stream habitat. Finally, further upstream at SF18, a new side channel will be created in a remnant floodplain adjacent to the existing channel and five large wood structures will be constructed (four in the new side channel and one in the existing channel at the inlet to the new side channel). These new habitat elements will significantly improve winter and spring rearing habitat for juvenile salmonids. The project is the second phase of habitat restoration implemented by The Nature Conservancy on this stretch of the South Fork Ten Mile River; the first phase, Phase 1A, was constructed in 2018.

Driving Directions

The site is located on the N (N/S/E/W) side of Camp 1 Ten Mile Rd (name road) approximately 1 mile (feet/miles) E (N/S/E/W) of its intersection with _____
Highway 1 (provide nearest major intersection).

Assessor's Parcel Number(s)
069-070-011, 069-070-012, 069-070-013

Parcel Size
069-070-011: 36
069-070-012: 9.6
069-070-013: 12

☐ Square Feet
☒ Acres

Street Address of Project
31171 Camp 1 Ten Mile Road
Fort Bragg, CA 95437

Please note: Before submittal, please verify correct street address with the Planning Division in Ukiah.

1 South Fork Ten Mile River Habitat Enhancement Phase 1B Project Overview

The South Fork Ten Mile River Habitat Enhancement Phase 1B project will take place on the lower South Fork Ten Mile River within the 119 square-mile Ten Mile River watershed in Mendocino County, California (see Figure 1, Location/Vicinity Map). The project area is located approximately 8 miles north of Fort Bragg, California, on three parcels of the privately owned Smith Ranch within the coastal zone. This project is designed to provide improved winter and spring rearing habitat for juvenile salmonids, and is the second phase of implementation of The Nature Conservancy's (TNC's) larger reach-wide habitat enhancement program in the lower 1.7 miles of the South Fork Ten Mile River with a goal of increasing survival and populations of coho salmon.

The Ten Mile River is an important watershed for maintaining and recovering populations of coho salmon, steelhead, and Chinook salmon. Restoration actions in the Ten Mile watershed are considered to be a high priority by the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) and the California Department of Fish and Wildlife (CDFW), as the potential for effective restoration is high and the coho inhabiting the Ten Mile River watershed are a regionally important, functionally independent population (NMFS 2012). The quantity and quality of available winter rearing habitat is a key factor limiting the recovery of coho salmon populations in the South Fork Ten Mile River basin (Stillwater 2011). This project is designed to address this need by increasing winter rearing habitat for coho and other salmonid species.

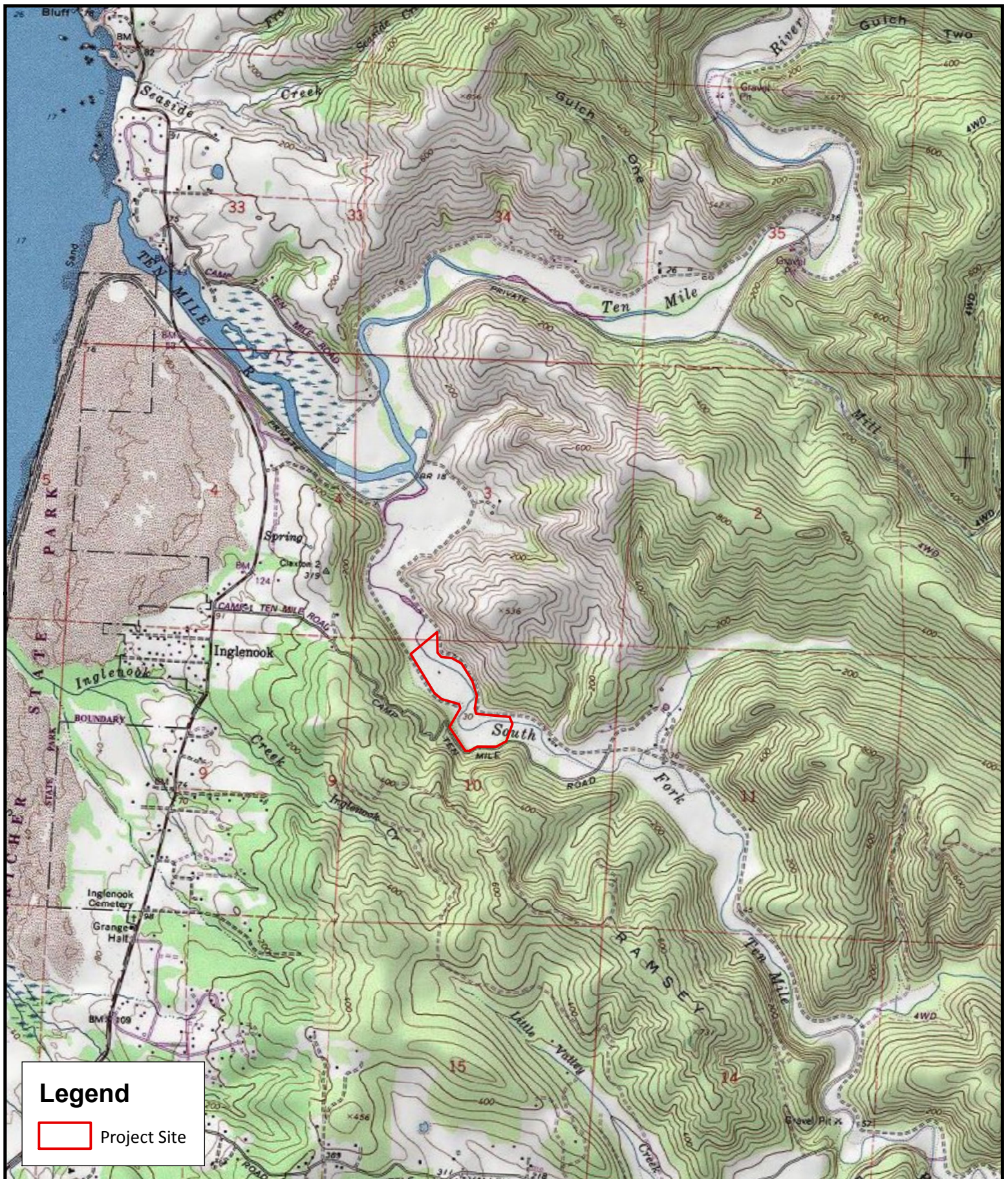
TNC implemented the first phase (Phase 1A) of restoration on the South Fork Ten Mile in the summer of 2018. That initial phase included construction of habitat elements across four sites between river miles 1.1 and 1.4. Two large wood structures were constructed at sites SF13 and SF14; an off-channel, seasonally flooded wetland was constructed at SF-16; and a split-flow side channel and large wood structures were constructed at SF17. These enhancements were designed to reestablish channel meandering and floodplain connection by supporting natural geomorphic processes and to provide a range of complex habitat elements that are beneficial to coho across a range of flow conditions.

The current project (Phase 1B) will utilize the practical experience and knowledge gained from implementation and monitoring of the first phase to build upon its success. The project includes enhancements at four sites immediately upstream and downstream of the Phase 1A improvements:

- Five large wood structures (SF10) and an off-channel seasonally flooded wetland (SF11) to provide high-flow refugia and increase floodplain connection.
- Three large wood structures (SF12) to provide habitat complexity between the above sites and the previously constructed SF13.
- A new side channel with four large wood structures along its extent and a large wood structure at its entrance to redirect flows from the active channel and to re-connect the historic floodplain.

Two areas of the South Fork Ten Mile River will be dewatered to construct SF10/SF11 and the inlet to SF18. The large wood structures at SF12 will be constructed without dewatering by operating an excavator and skidder from the edge of bank. Access to the project site will occur via the Georgia-Pacific Industrial Road, along existing ranch roads, and through pastures on access routes designated on the project plans. Spoils from excavation of the new side channel at SF18 will contain a high percentage of gravels and will be taken for re-use by the construction contractor. All other soil spoils will be spread in an on-site pasture as shown on the project plans. The project has been designed to avoid the emergent wetlands delineated on the property and protection measures will be implemented to avoid or minimize potential impacts to natural resources to the extent feasible.

The enhancements are designed to re-create natural geomorphic features and support natural geomorphic processes. Because the project occurs within a dynamic system, habitat enhancements are not expected to be static through time. Instead, the enhancement sites are expected to adjust over time while maintaining habitat function. The enhancements were designed based on practical experience from implementing Phase 1A and a wider understanding of physical processes of the South Fork Ten Mile River, as described in the *Framework for Coho Salmon Habitat Restoration and Enhancement in Lower Ten Mile River (Framework)* (Stillwater Sciences 2013) and the *Lower Ten Mile River Habitat Enhancement Plan and Concept Designs Report (Design Report)* (PCI 2014). These documents were developed as part of the Ten Mile River Coho Off-Channel Habitat Design Project funded by CDFW's Fisheries Restoration Grant Program in 2013.



Legend

Project Site



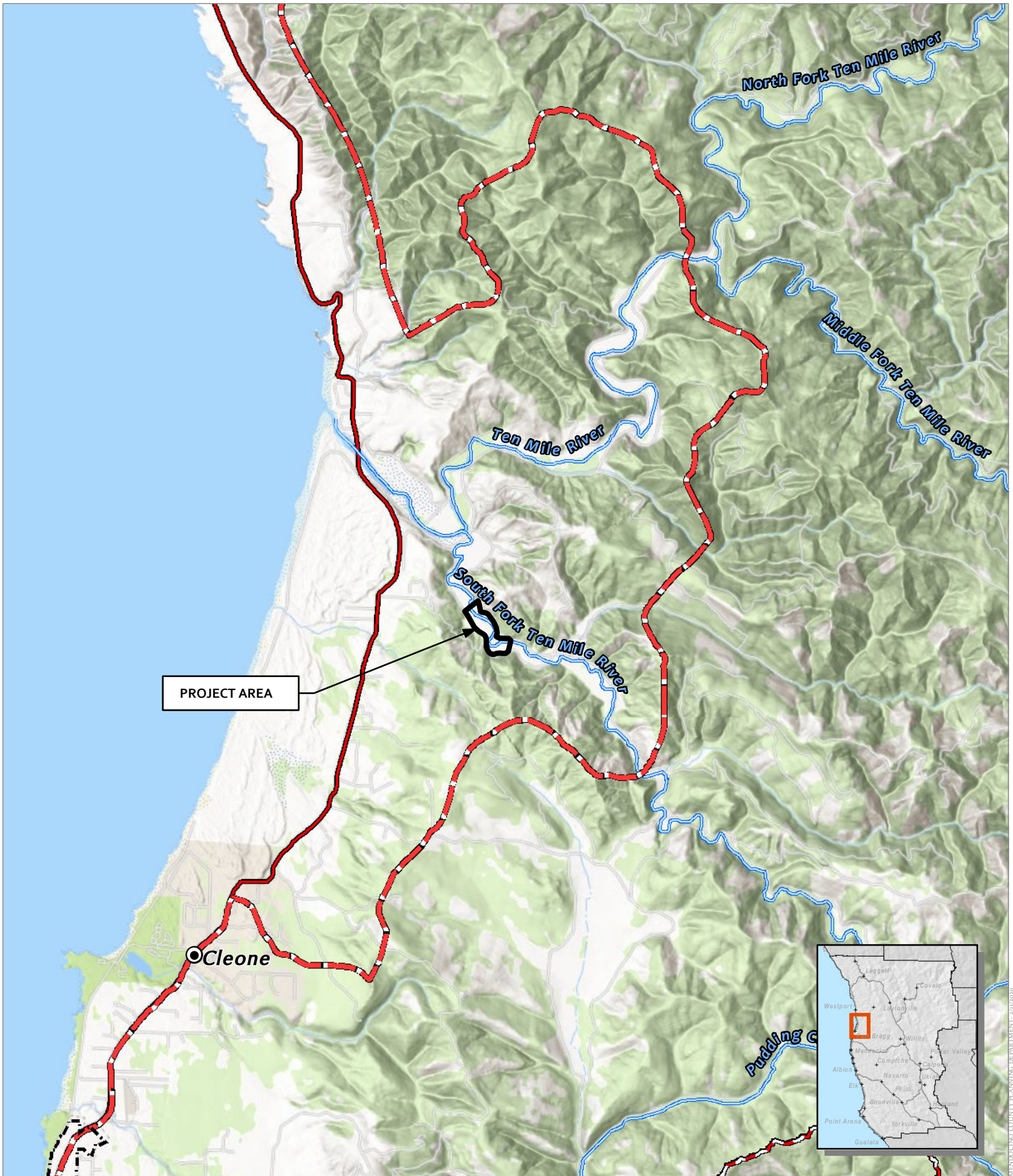
PRUNUSKE CHATHAM, INC.

Figure 1. Project Location
South Fork Ten Mile River Habitat Enhancement
Project Inglenook, Mendocino County, CA

0 0.125 0.25 0.5
Miles

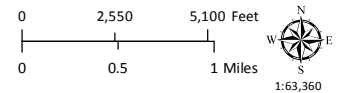
12/1/2017
Sources:
Topography - ESRI



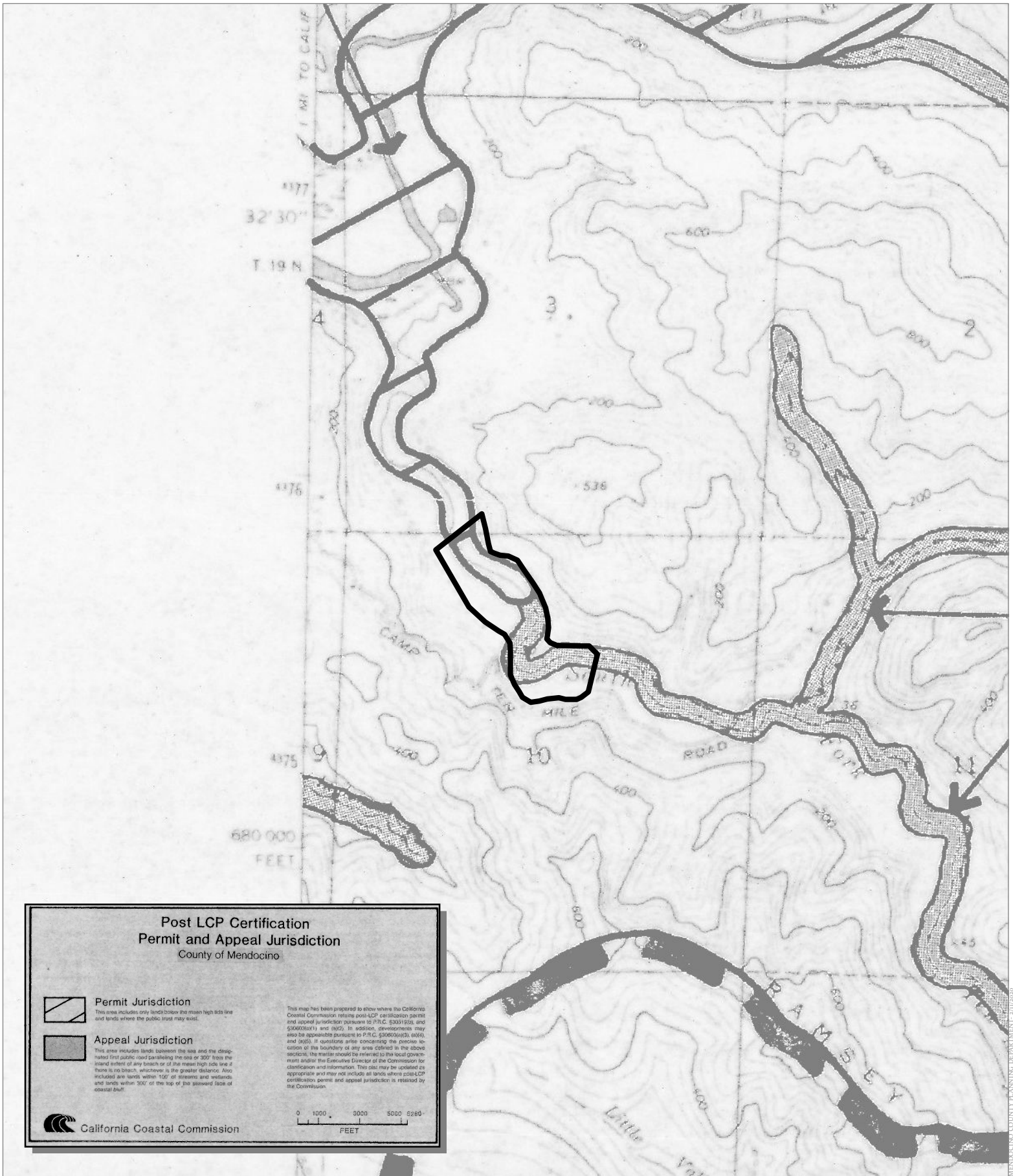


CASE: CDP 2020-0005
 OWNER: PERRY, Margaret, ET AL
 APN: 069-070-12, ET AL
 APLCT: The Nature Conservancy
 AGENT: Prunuske Chatham, Inc.
 ADDRESS: 31171 Camp 1 Ten Mile Road, Fort Bragg

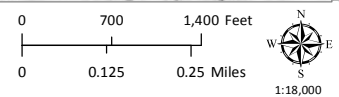
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| | Major Towns & Places | | Major Rivers |
| | City Limits | | Highways |
| | Coastal Zone Boundary | | Major Roads |



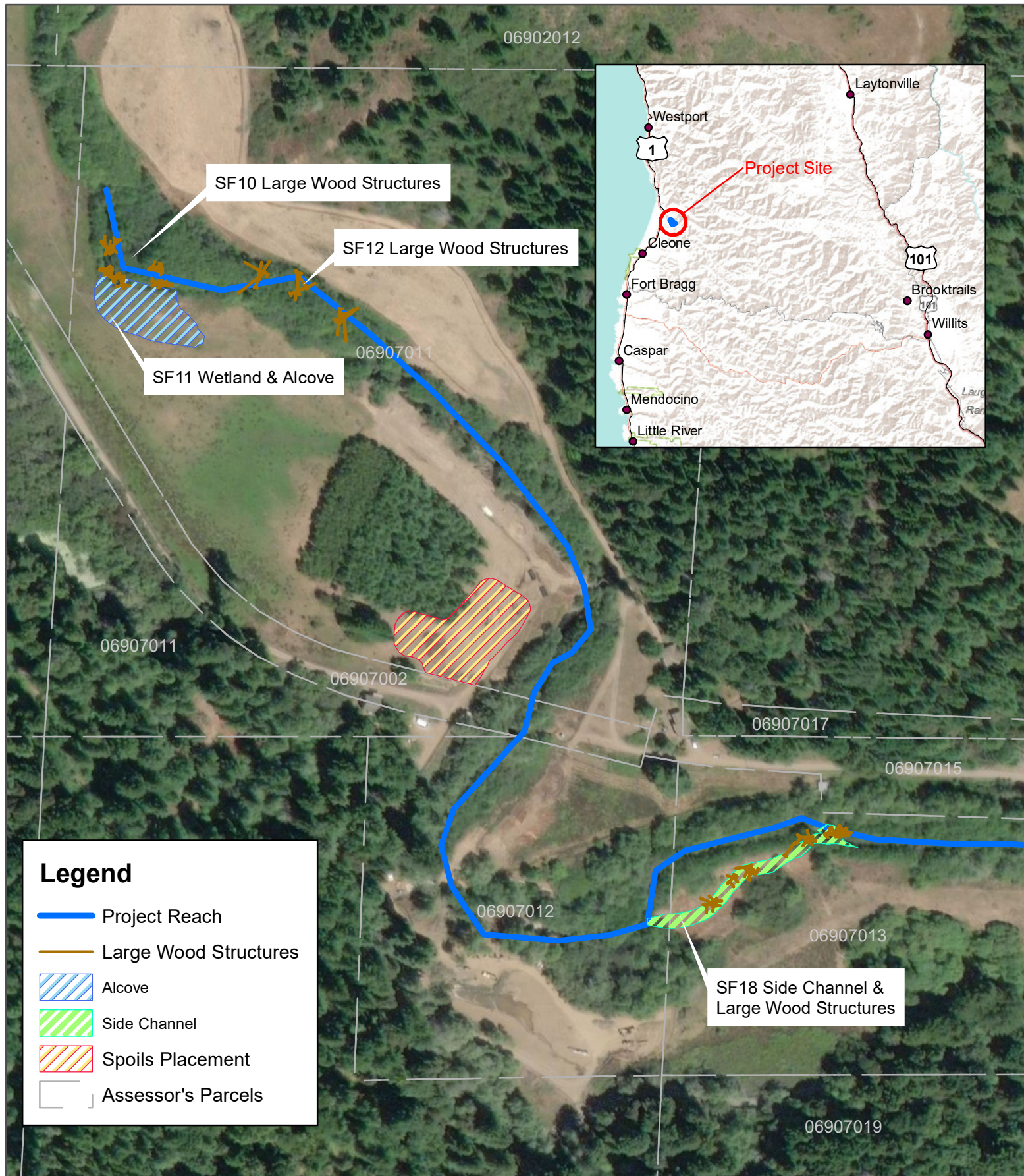
LOCATION MAP
 ATTACHMENT B



CASE: CDP 2020-0005
 OWNER: PERRY, Margaret, ET AL
 APN: 069-070-12, ET AL
 APLCT: The Nature Conservancy
 AGENT: Prunuske Chatham, Inc.
 ADDRESS: 31171 Camp 1 Ten Mile Road, Fort Bragg



POST LCP CERTIFICATION & APPEAL JURISDICTION
 ATTACHMENT C



TNC South Fork Ten Mile River Habitat Enhancement Phase 1B Location and Vicinity

0 0.05 0.1

0.2 Miles



PRUNUSKE CHATHAM, INC.

ATTACHMENT D

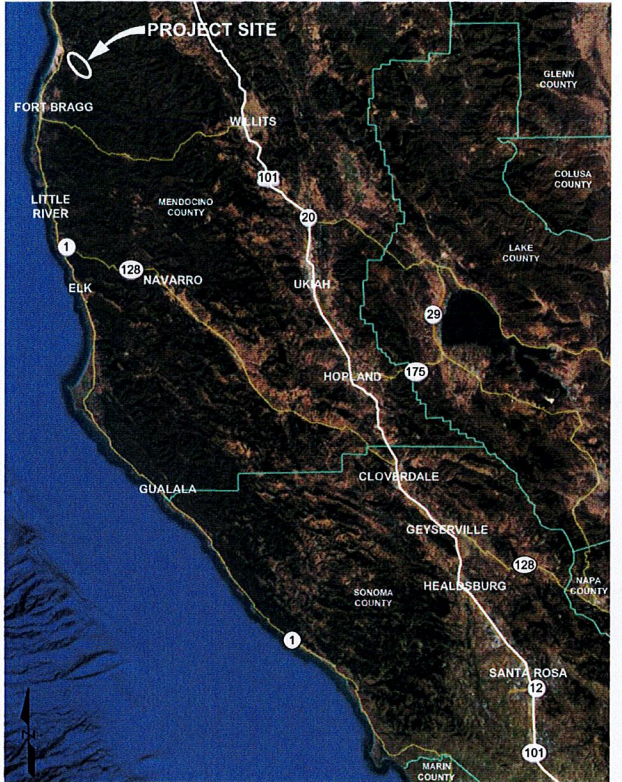
Date: January 2020

Source: ESRI (imagery), Mendocino County (parcels)

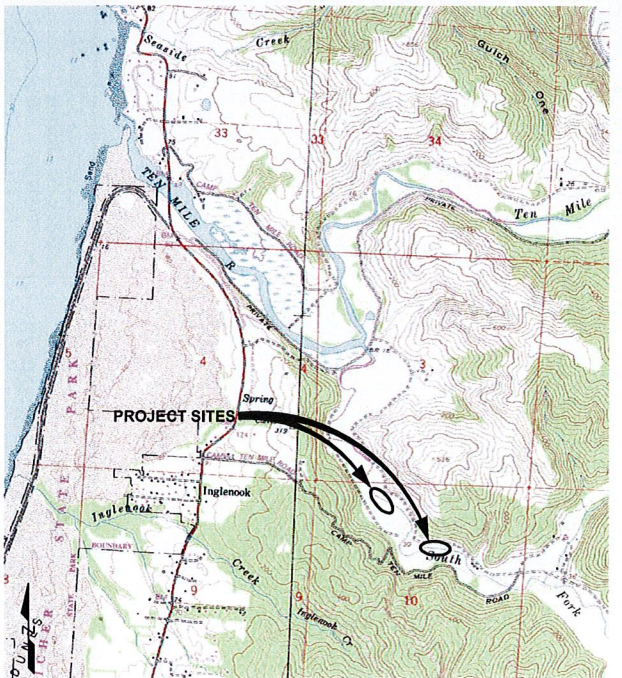
TEN MILE RIVER
SOUTH FORK ENHANCEMENT PROJECT

PHASE 1B
SITES SF10, SF11, SF12 AND SF18

SPONSORED BY
THE NATURE CONSERVANCY



VICINITY MAP
SCALE: AS SHOWN



LOCATION MAP
SCALE: 1" = 2000'
USGS



SITE LAYOUT
SCALE: 1" = 400'

DRAWING INDEX	
SHEET #	SHEET NAME
1	TITLE SHEET
2	GENERAL CONSTRUCTION NOTES
3	SITE PLAN
4	SF10-12 SITE ACCESS & DEWATER PLAN
5	SF10-12 PLAN AND PROFILE
6	SF10-12 CROSS SECTIONS
7	SF10 LWD
8	SPOILS PLAN
9	SF10-12 EROSION CONTROL & REVEGETATION PLAN
10	SF18 SITE ACCESS & DEWATER PLAN
11	SF18 PLAN AND PROFILE
12	SF18 CROSS SECTIONS
13	SF18 LWD
14	SF18 EROSION CONTROL & REVEGETATION PLAN
15	DEWATER DETAILS
16	CONSTRUCTION DETAILS
17	EROSION CONTROL DETAILS
18	REVEGETATION DETAILS

SURVEY NOTES
TOPOGRAPHIC GROUND SURVEY PERFORMED BY PRUNUSKE CHATHAM, INC. SEPTEMBER 23-27, 2019. SURROUNDING TOPOGRAPHIC LIDAR DATA OBTAINED FROM USGS AND IS APPROXIMATE ONLY.
HORIZONTAL DATUM: ASSUMED
VERTICAL DATUM: ASSUMED
HORIZONTAL AND VERTICAL CONTROL AS SHOWN
PROJECT LOCATION: LAT: 39° 31' 34" N LONG: 123° 44' 37" W
USGS LIDAR DATA COLLECTION PUBLISHED 2018

PREPARED FOR:
THE NATURE CONSERVANCY
201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

DATE:	1/29/2020	REVISIONS	DATE	BY
SCALE:	AS SHOWN			
MAPPING BY:	JRH			
DESIGNED BY:	LH, MJ, LW			
DRAFTED BY:	LW, BKS			
CHECKED BY:	MJ, LH			

65% PLAN
PRELIMINARY
DATE : Jan 29, 2020

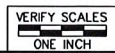
TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
TITLESHEET

SHEET
1
OF 18

PROJECT ADDRESS: The Smith Ranch 28761 N. Highway 1
Fort Bragg, CA 95473

ATTACHMENT E

RECEIVED
FEB 04 2020
PLANNING & BUILDING SERV
FORT BRAGG CA



Acad File Name: G:\Used Draw: CIVIL\Ten Mile River\02_Phase1\B\Draw\NIB.dwg
Plot date: 1/29/2020 3:32 PM Layout: GENERAL CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES:

A. LEGAL

A1. Contractor shall 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. Construction Contractor shall hold harmless, indemnify and defend the Owner (The Nature Conservancy), the Landowner, the Project Engineer and their consultants, and each of their officers, employees, and agents.

B. INSPECTION / CONSTRUCTION REVIEW

B1. Project Engineer shall provide construction review related to site work and channel improvements shown on this plan set. Project Biologist shall conduct and oversee biological protection according to permit conditions.

B2. A pre-construction site meeting will be held with Contractor, The Nature Conservancy Representative, and Project Engineer to discuss construction methods, schedule, staging areas, traffic control, property operations, observation and inspection points and frequency.

B3. Construction observation points: Project Engineer shall minimally observe:

1. All grade staking and layout of site features prior to construction.
2. Salvage of top soil.
3. After excavation to subgrade.
4. After excavation to subgrade of road, all geotextiles, pipes, & drain rock to be observed before backfill.
5. After excavation during compaction of fills and backfills.
6. During and after placement of logs & rootwads before backfill.
7. During vertical & skewed log pile placement to verify depth.
8. After topsoil placement to finish grade & before seeding/mulching and erosion control mat installation.
9. After erosion control is installed.
10. During plant installation & after.
11. At job completion.

C. GENERAL CONDITIONS

C1. This plan set and these general construction notes are not meant to fully describe all materials and methods required to construct the Ten Mile River South Fork Enhancement Project.

C2. All construction materials and workmanship shall conform to the Ten Mile River South Fork Enhancement Project --- plans and project specifications.

C3. Contractor shall be fully responsible for being familiar with the provisions and requirements contained in the Ten Mile River South Fork Enhancement Project --- plans and project specifications. Contractor shall have a copy available at the job site at all times.

C4. Contractor shall provide emergency telephone numbers to the police, fire, and public works departments and keep them informed daily regarding street closures and traffic control.

C5. The contractor shall notify the Owner and Project Engineer five (5) working days prior to beginning work on the project..

C6. Construction staging areas and temporary access to be coordinated with Owner Representative and Project Engineer prior to construction. Staging will occur within the project area per plan set and as approved by Owner Representative and Project Engineer.

C7. Dewatering: Contractor shall dewater site in accord with the Project Plans and Specifications. Contractor shall use temporary dewatering systems to control minor surface flow from ground water seeps through the work area. Contractor shall coordinate dewatering activities with Project Biologist and comply with all required permit conditions.

C8. All turbid water must be controlled and contained by contractor. Turbid water shall not be discharged to the flowing river. Turbid water may be discharged in fields adjacent to project areas.

C9. Erosion Control Plan represents the minimum erosion control required. This site will disturb over one acre, and will require a SWPPP. Additional erosion control measures may be required by QSD/QSP.

C10. Species Protection: All work shall be conducted in conformance with regulatory permit conditions.

C11. Contractor to grade stake site with adequate detail for Project Engineer to verify horizontal and vertical conformance to contract documents.

C12. Upon completion of the project, an as-built plan shall be completed and submitted to Project Owner.

D. UTILITIES

D1. Prior to construction, the Contractor is responsible for locating all existing underground utilities through coordination with the Owner Representative, Underground Service Alert, and the various utility companies. Contractor shall protect all identified utilities.

D2. If utilities are required to be relocated, the Contractor shall submit a utility relocation plan for approval by Project Engineer as well as required County and Local agencies.

E. SUBMITTALS

E1. Contractor shall provide all submittals identified in the Project Specifications to the Project Engineer for review and approval at least three business days prior to bringing materials on site.

F. ENVIRONMENTAL AND CULTURAL RESOURCES PROTECTION

F1. Contractor is responsible for complying with all regulatory permit conditions.

F2. All vehicles and equipment on the site must not leak any type of hazardous materials such as oil, hydraulic fluid, or fuel. Vehicles and equipment must be inspected and approved by Owner Representative before use. Fueling shall take place outside of the riparian corridor.

F3. Contractor shall have emergency spill clean up gear (spill containment and absorption materials) and fire equipment available on site at all times. These items are to be reviewed by Owner Representative before construction begins.

F4. Access to the site must be reviewed with the Owner Representative and Project Engineer. Exact location of access way, number of trips planned, and type of vehicles used shall be submitted prior to construction start up & approved by Owner Representative and Project Engineer. Contractor shall be responsible for repairing, at their own cost above and beyond the scope of work, any damage to property caused by access not approved by the Owner Representative and Project Engineer.

F5. Trash, litter, construction debris, cigarette butts, etc., must be stored in designated area approved by the Owner Representative or removed from the site at the end of each working day. Upon completion of work, Contractor is responsible for removing all debris to the satisfaction of the Owner Representative.

F6. Construction personnel shall be briefed about the potential to uncover prehistoric resources, including chert or obsidian flakes, projectile points, mortars and pestles, dark friable soil containing shell and bone dietary, heat-affected rock, or human burials, as well as historic resources such as stone or adobe foundations or walls, structures and remains with square nails, and refuse deposits or bottle dumps. Construction personnel shall be instructed to avoid areas containing potential cultural resources and that collection of cultural resources is forbidden.

F7. Should potential cultural resources be discovered, work will be discontinued until the area can be evaluated by a qualified archaeologist. If human remains are encountered, all work must stop in the immediate vicinity of the discovered remains, and the County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed. If the remains are deemed to be Native American and prehistoric, the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" can be designated.

F8. Where possible, do not operate equipment within the drip line of trees. Steel plates shall be used when operation within the drip line of trees creates excessive compaction.

G. GENERAL GRADING NOTES

G1. All grading shall be conducted in conformance with the Project Plans and Specifications.

G2. See Project Plans & Specifications for topsoil salvage requirements.

G3. Trees to be salvaged for project to be marked by Project Engineer prior to construction.

G4. Clear and Grub: All vegetation not designated to remain within the project limits shall be cleared and grubbed. All woody vegetation that is not to be re-used as salvage wood shall be disposed of off-site.

G5. See Project Plans and Specifications for sedge salvage requirements prior to grading.

H. SEED AND MULCH SPECIFICATIONS

- 1.1. General
- 1.2. All disturbed areas shall be seeded. All areas where erosion control fabric is not installed shall be seeded and mulched.
- 1.3. Schedule: Seed must be applied before October 15 unless an extension is granted. Earlier application in September with a light watering (every other day) will promote establishment before the rainy season.

2.0. Materials

- 2.1. Native Seed Mix for Restoration Areas:
 - 40% Deschampsia cespitosa
 - 20% Elymus triticoides
 - 20% Hordeum brachyantherum
 - 20% Festuca rubra
- Native Seed Pasture Mix for Temporary Staging and Access Roads:
 - 30% Deschampsia cespitosa
 - 40% Bromus carinatus
 - 30% Festuca rubra

2.2. Mulch: Mulch shall be weed free and may include wood fiber hydro mulch (not recycled paper) and irrigated crop certified weed-free rice, wheat or barley straw. Contractor to submit weed-free mulch for approval by Project Engineer.

3.0. Execution

- 3.1. Scarify soil by tracking or hand tools.
- 3.2. Broadcast native seed mix lightly at a rate of 40 pounds per acre. Rake or roll ground surface after broadcasting.
- 3.3. Where erosion control blanket is not specified, apply weed-free mulch on top of seeded area (after seed is applied) at a rate of 3,000 pounds per acre.
- 3.4. Tackifier may be required where straw mulch is used.

APPROXIMATE QUANTITIES FOR PERMITTING:

APPROXIMATE CONSTRUCTION QUANTITIES

CONSTRUCTION QUANTITY NOTES:

1. Construction quantities shown are approximations. Contractor is responsible for determining proper earthwork, rock, and material quantities.

LEGEND

GENERAL:		
#	DIAMETER	SF SOUTH FORK
±	APPROXIMATE	TR TOP OF ROCK
Δ	DELTA	TL TOP OF LOG
▽	WATER SURFACE	TW TOP OF WALL
		EG EXISTING GRADE
		FG FINISH GRADE
		ELJ ENGINEERED LOG
		JAM LARGE WOODY DEBRIS
		SECTION OR DETAIL DESIGNATION
		SHEET WHERE SECTION OR DETAIL OCCURS
PROPOSED		EXISTING
LIMITS OF GRADING/BREAKLINE		
STORM DRAIN/CULVERT PIPE		
ALIGNMENT/FLOWLINE		
ACCESS ROAD		
CONTOUR LINE		
FENCE		
BRUSH/VEGETATION LINE		
LOG MEMBER		
TREES		
SURVEY CONTROL POINT		
STRAW WATTLES		
PROJECT BOUNDARY/ORANGE SAFETY FENCE		
SILT FENCE/WILDLIFE EXCLUSION FENCE		
EDGE OF WATER		
STAGING AREA		

ATTACHMENT E



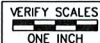
PREPARED FOR:
THE NATURE CONSERVANCY
201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

DATE: 1/29/2020
SCALE: AS SHOWN
MAPPING BY: JRH
DESIGNED BY: LH, MLLW
DRAFTED BY: LW, BKS
CHECKED BY: MJ, LH

REVISIONS
DATE
BY
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DATE: JUN 29, 2020

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
GENERAL CONSTRUCTION NOTES

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2
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The map shows a topographic representation of a wetland area with contour lines. Key features include:

- Wetland Boundaries:** Dashed lines delineate the "EMERGENT WETLAND BOUNDARY" and "SHEET 11 - SF-18 PLAN AND PROFILE".
- Water Features:** "SF10 DEWATER REACH", "SF11 WETLAND", "SF18 DEWATER REACH", and "SF18 SIDE CHANNEL" are labeled.
- Engineering Points:** Numerous points are marked with labels such as "SF10.1 L.W.S.", "SF10.2 L.W.S.", "SF10.3 L.W.S.", "SF10.4 L.W.S.", "SF12.1 L.W.S.", "SF12.2 L.W.S.", "SF12.3 L.W.S.", "SF18.1 L.W.S.", "SF18.2 L.W.S.", "SF18.3 L.W.S.", "SF18.4 L.W.S.", and "SF18.5 L.W.S.". Some are connected by lines to specific features.
- Other Features:** "STAGING AND ACCESS", "SPOILS PLACEMENT", and "CAMP ONE TEN MILE RD" are also indicated.


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DISTURBANCE SUMMARY TABLE
TOTAL DISTURBED AREA: 4.4 AC
TOTAL DEWATERED LENGTH: 415 LF

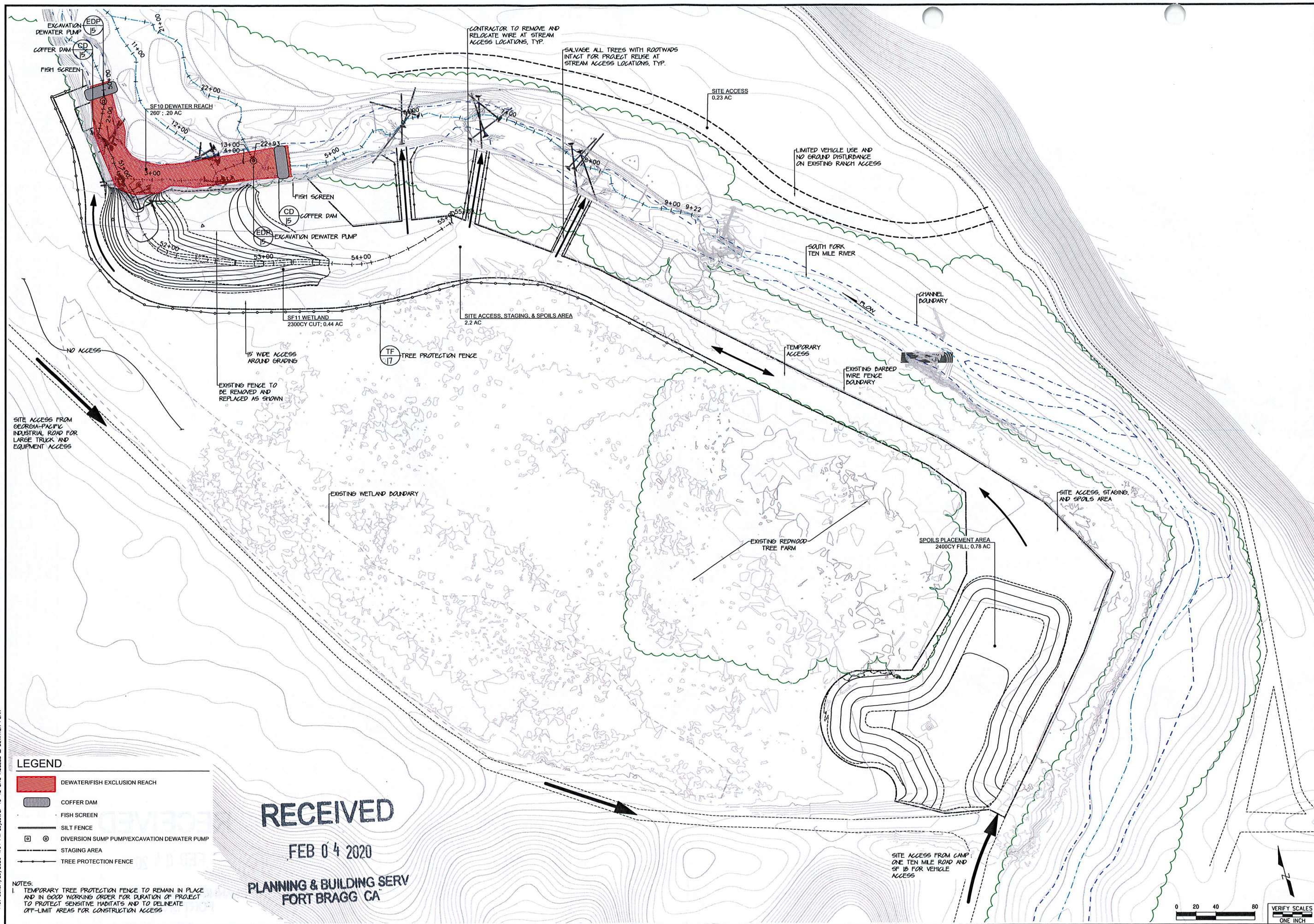
ATTACHMENT E

SHEET
3
OF 18

DATE	BY
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DATE : Jan 29, 2020	



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400 MORRIS STREET, SUITE G
SEBASOTOL, CA 95472
(707) 824-4600



LEGEND

NOTES:

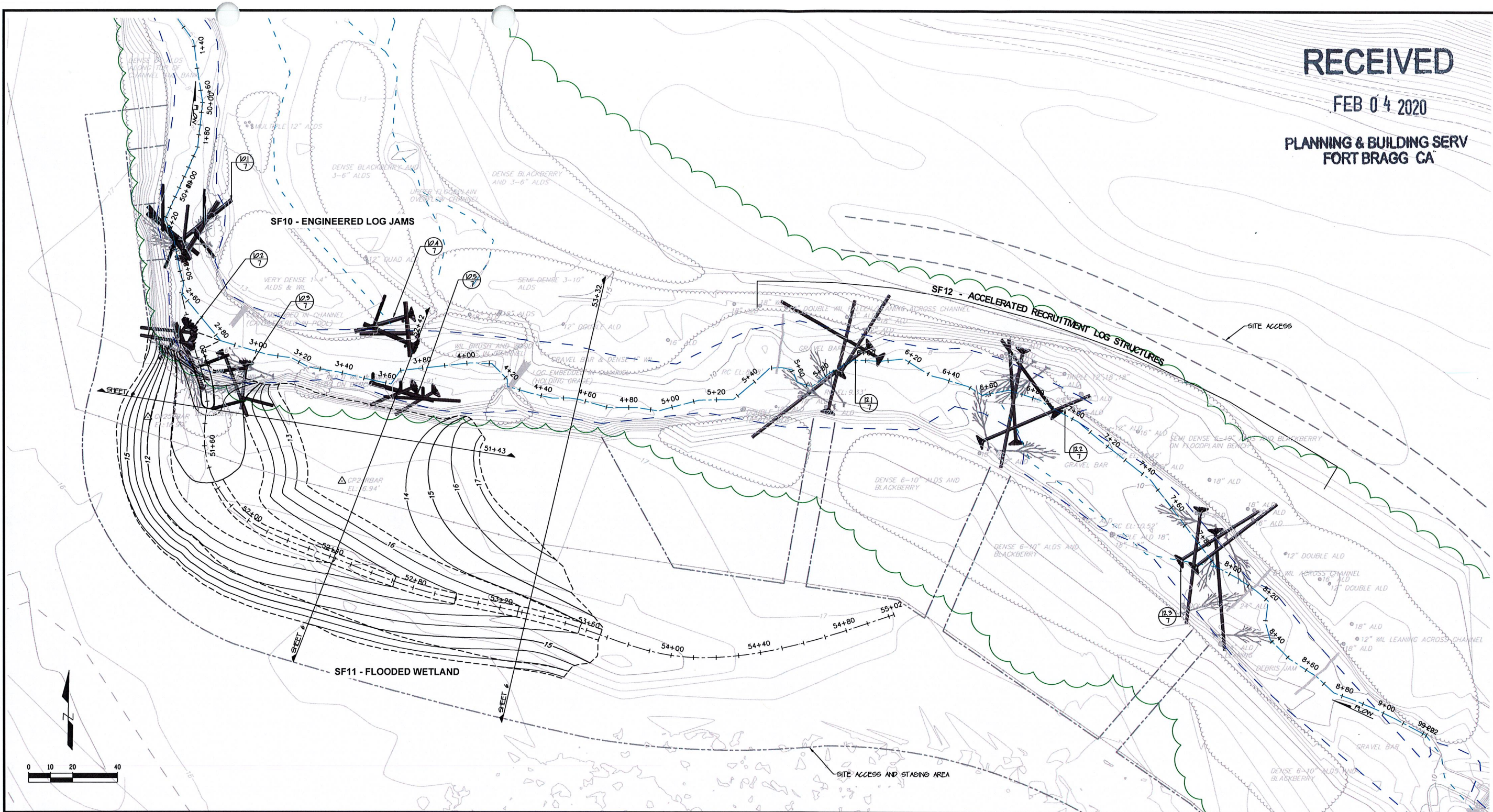
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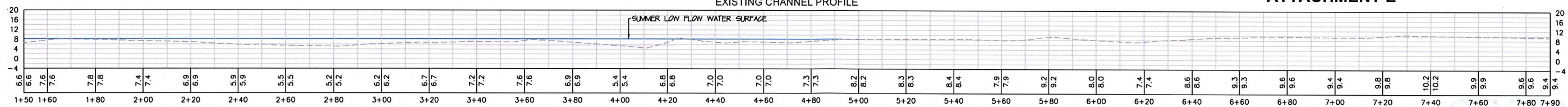


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201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

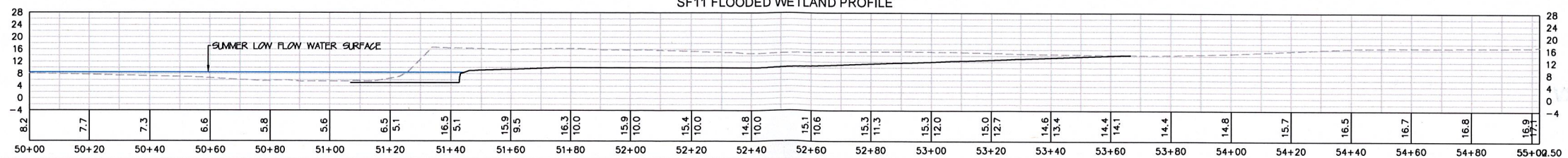
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MAPPING BY:	JRH			
DESIGNED BY:	LH, MJ, LW			
DRAFTED BY:	LW, BKS			
CHECKED BY:	MJ, LH			

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF10-12 PLAN AND PROFILE

EXISTING CHANNEL PROFILE



SF11 FLOODED WETLAND PROFILE



ATTACHMENT E

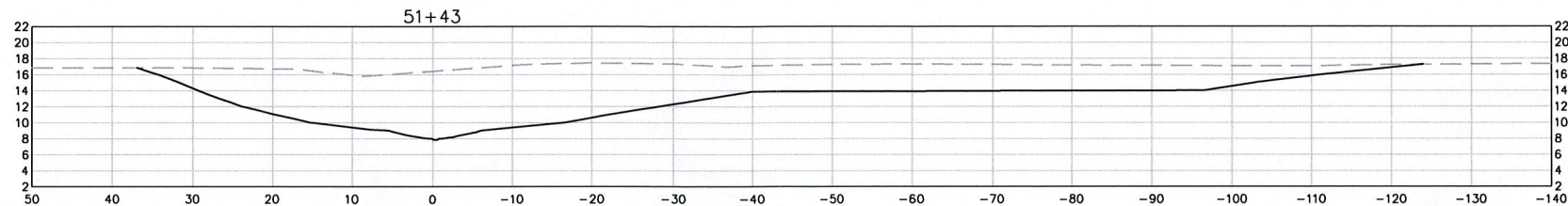
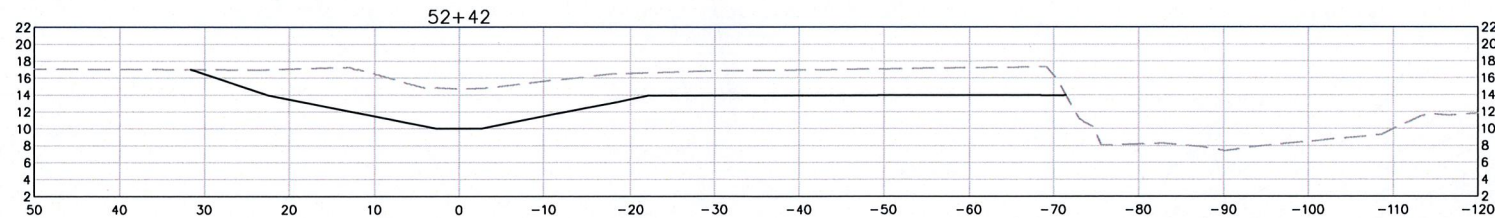
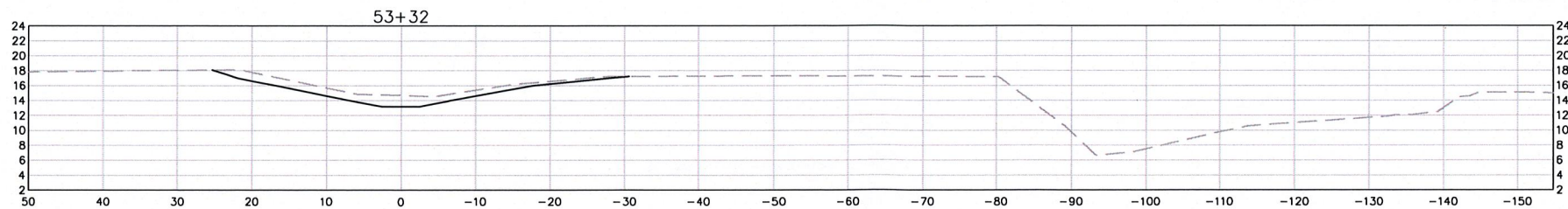
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TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF10-12 CROSS SECTIONS

SHEET

6

OF 18

DATE: 1/29/2020
SCALE: 1" = 10'
MAPPING BY: JRH
DESIGNED BY: LH, ML, LW
DRAFTED BY: LW, BKS
CHECKED BY: ML, LH

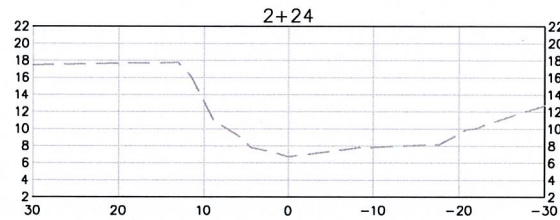
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65% PLAN
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DATE: Jan 29, 2020

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SAN FRANCISCO, CA 94105

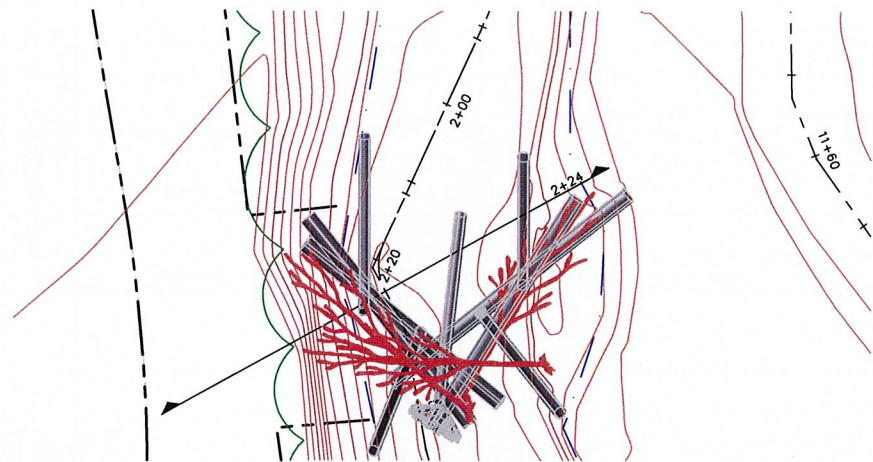
PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEABASTOPOL, CA 94722
(707) 824-4600

Acad File Name: C:\Acad Dwg\10 Mile River\10_Mile_River\10_Mile_River.dwg
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10.1 LARGE WOOD STRUCTURE

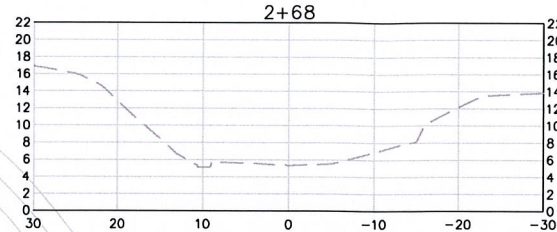


SECTION



PLAN

10.2 LARGE WOOD STRUCTURE

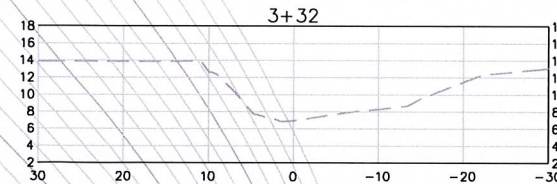


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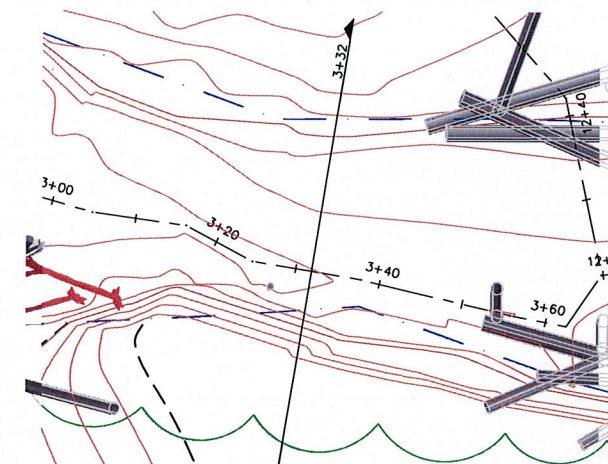


PLAN

10.3 LARGE WOOD STRUCTURE

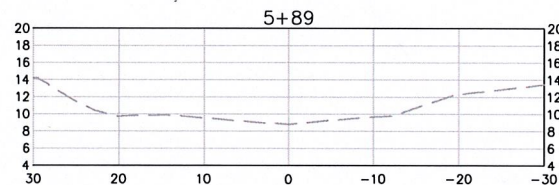


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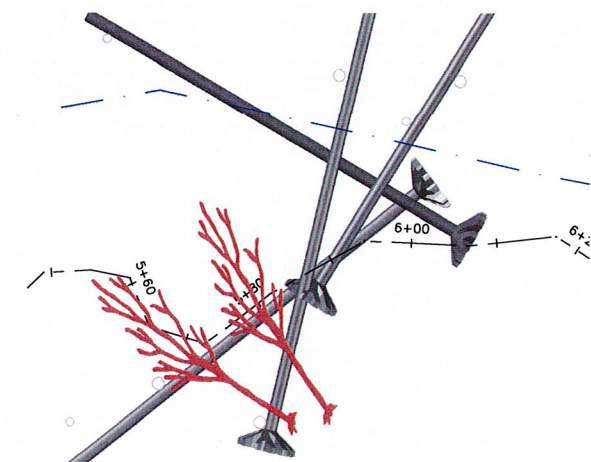


PLAN

10.4 LARGE WOOD STRUCTURE

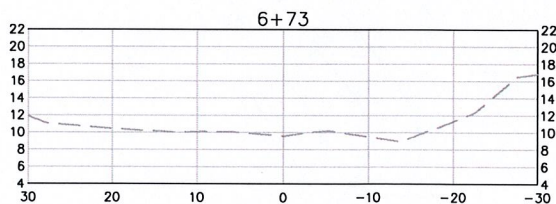


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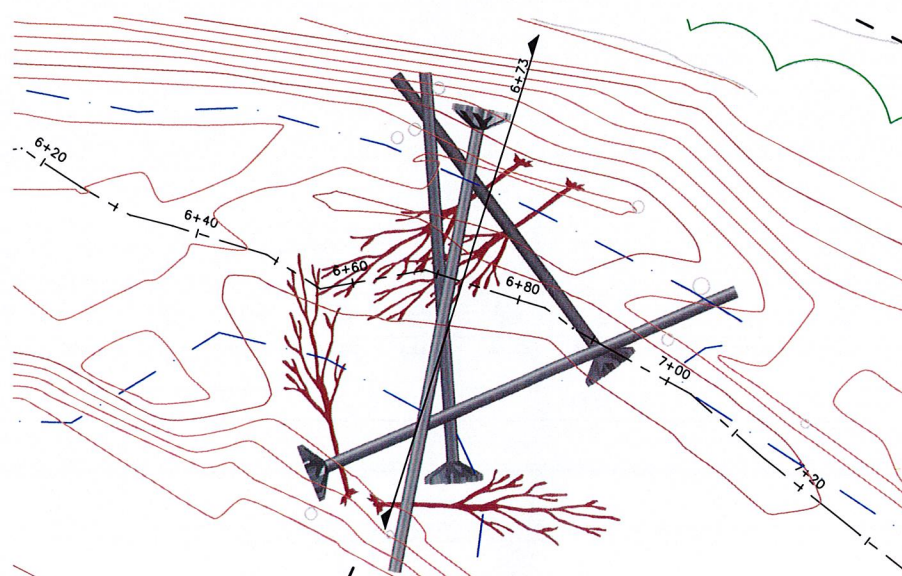


PLAN

10.5 LARGE WOOD STRUCTURE

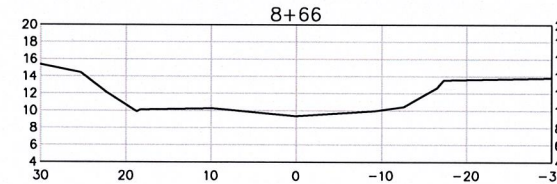


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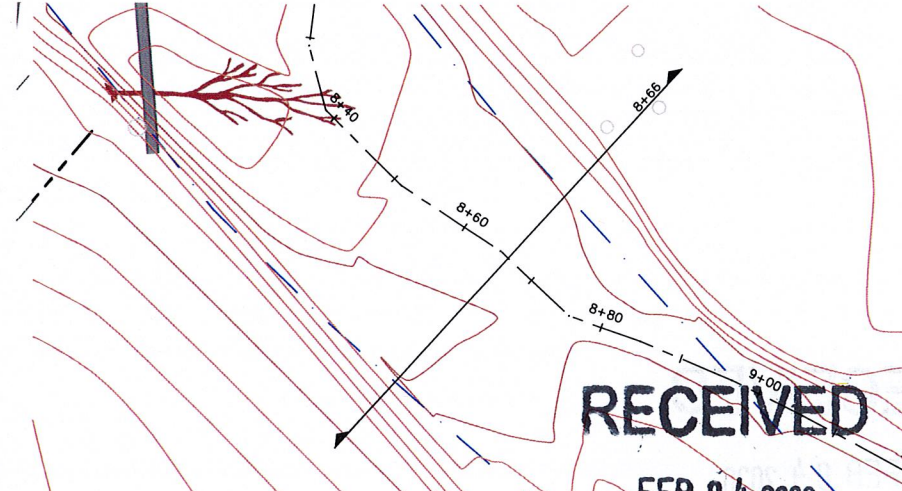


PLAN

10.6 LARGE WOOD STRUCTURE



SECTION

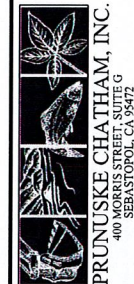


PLAN

SHEET IN PROGRESS

LEGEND

- LOG-LOG CONNECTION INDICATES 25' LONG V.L.A.
- EXISTING GRADE
- DESIGN GRADE



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THE NATURE CONSERVANCY
201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

DATE: 1/29/2020
SCALE: AS SHOWN
MAPPING BY: JRH
DESIGNED BY: LH, MJ, LW
DRAFTED BY: LW, BKS
CHECKED BY: MJ, LH

REVISIONS
DATE BY
65% PLAN
PRELIMINARY
DATE: 01/29/2020

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF10 LWD

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
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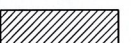



VERIFY SCALES
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Plot date: 1/29/2020 4:22 PM Layout: SF 10-12 Erosion Control & Revegetation Plan

REVEGETATION LEGEND SF 10-12

SYMBOL/HATCH	AREA	DESCRIPTION
	690 SF	WILLOW PLANTING
	1,840 SF	ALDER PLANTING
	940 SF	WILLOW & ALDER PLANTING
	3,990 SF	SEASONAL WETLAND PLANTING
	8,210 SF	WET MEADOW PLANTING

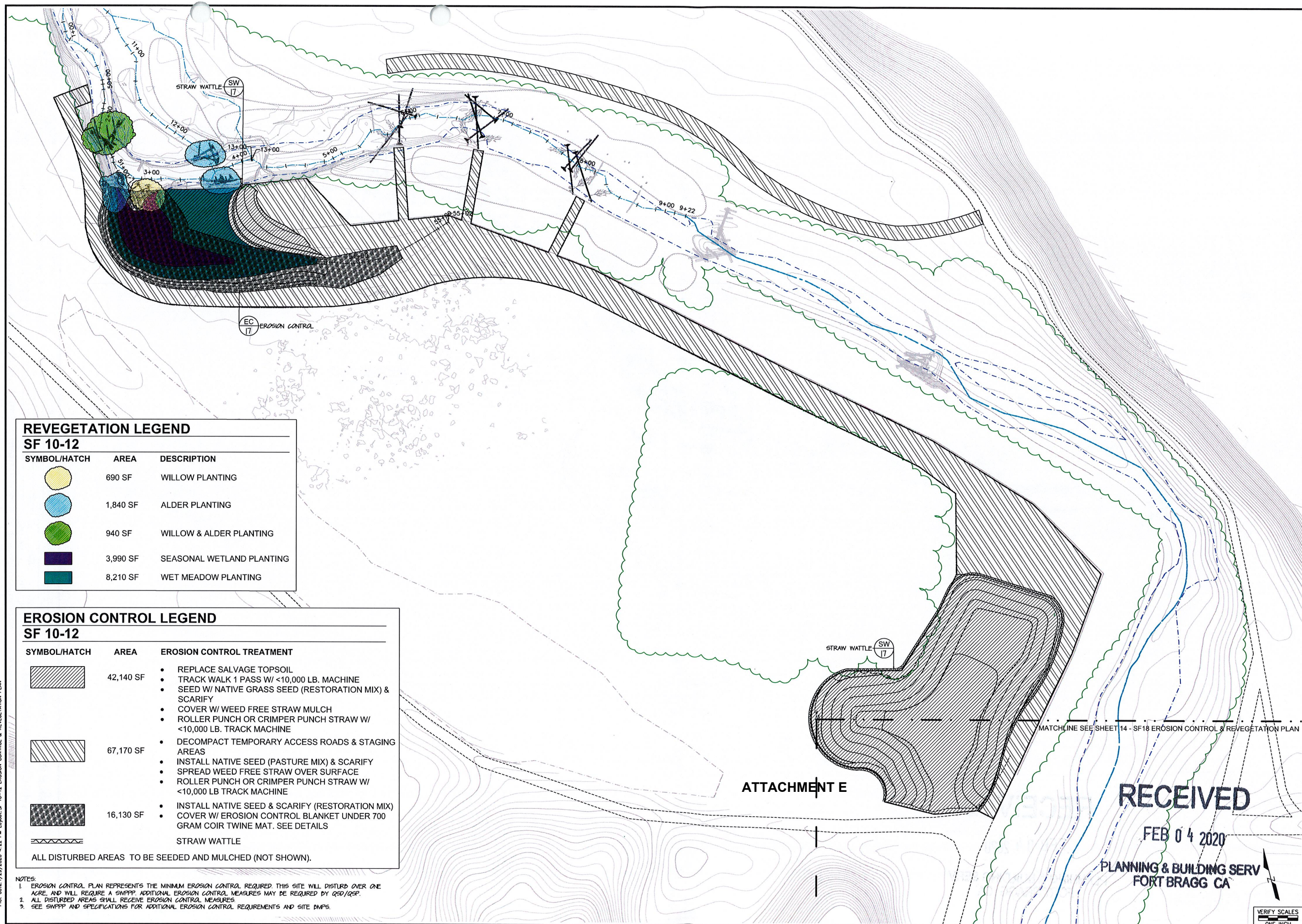
EROSION CONTROL LEGEND SF 10-12

SYMBOL/HATCH	AREA	EROSION CONTROL TREATMENT
	42,140 SF	<ul style="list-style-type: none">REPLACE SALVAGE TOPSOILTRACK WALK 1 PASS W/ <10,000 LB. MACHINESEED W/ NATIVE GRASS SEED (RESTORATION MIX) & SCARIFYCOVER W/ WEED FREE STRAW MULCHROLLER PUNCH OR CRIMPER PUNCH STRAW W/ <10,000 LB. TRACK MACHINE
	67,170 SF	<ul style="list-style-type: none">DECOMPACT TEMPORARY ACCESS ROADS & STAGING AREASINSTALL NATIVE SEED (PASTURE MIX) & SCARIFYSPREAD WEED FREE STRAW OVER SURFACEROLLER PUNCH OR CRIMPER PUNCH STRAW W/ <10,000 LB TRACK MACHINE
	16,130 SF	<ul style="list-style-type: none">INSTALL NATIVE SEED & SCARIFY (RESTORATION MIX)COVER W/ EROSION CONTROL BLANKET UNDER 700 GRAM COIR TWINE MAT. SEE DETAILS
		STRAW WATTLE

ALL DISTURBED AREAS TO BE SEEDED AND MULCHED (NOT SHOWN).

NOTES:

1. EROSION CONTROL PLAN REPRESENTS THE MINIMUM EROSION CONTROL REQUIRED. THIS SITE WILL DISTURB OVER ONE ACRE, AND WILL REQUIRE A SWPPP. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY QSD/QSP.
2. ALL DISTURBED AREAS SHALL RECEIVE EROSION CONTROL MEASURES.
3. SEE SWPPP AND SPECIFICATIONS FOR ADDITIONAL EROSION CONTROL REQUIREMENTS AND SITE BMPs.





PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEASIDE, CA 94132
(707) 932-4000

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201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

DATE: 1/29/2020
SCALE: 1"=40'
MAPPING BY: JRH
DESIGNED BY: LH, MJ, LW
DRAFTED BY: LW, BKS
CHECKED BY: MJ, LH

REVISIONS

DATE: 1/29/2020
BY: JRH
REVISION: 1
DESCRIPTION: 65% PLAN PRELIMINARY
DATE: July 29, 2020

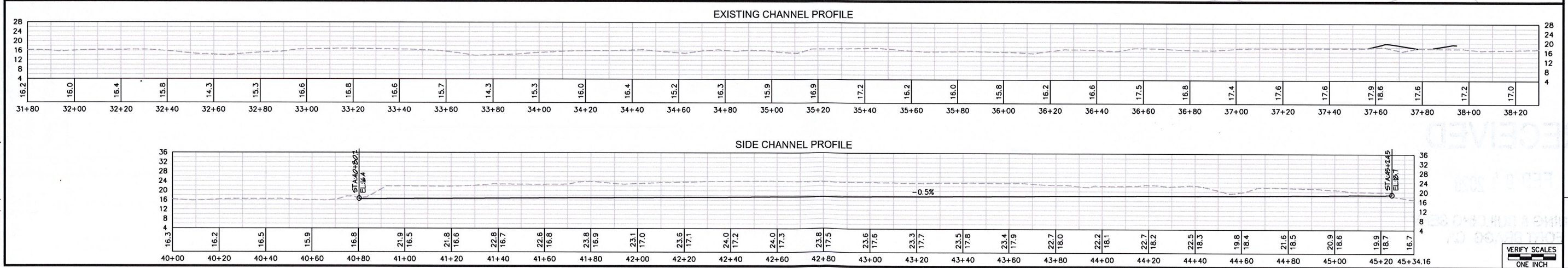
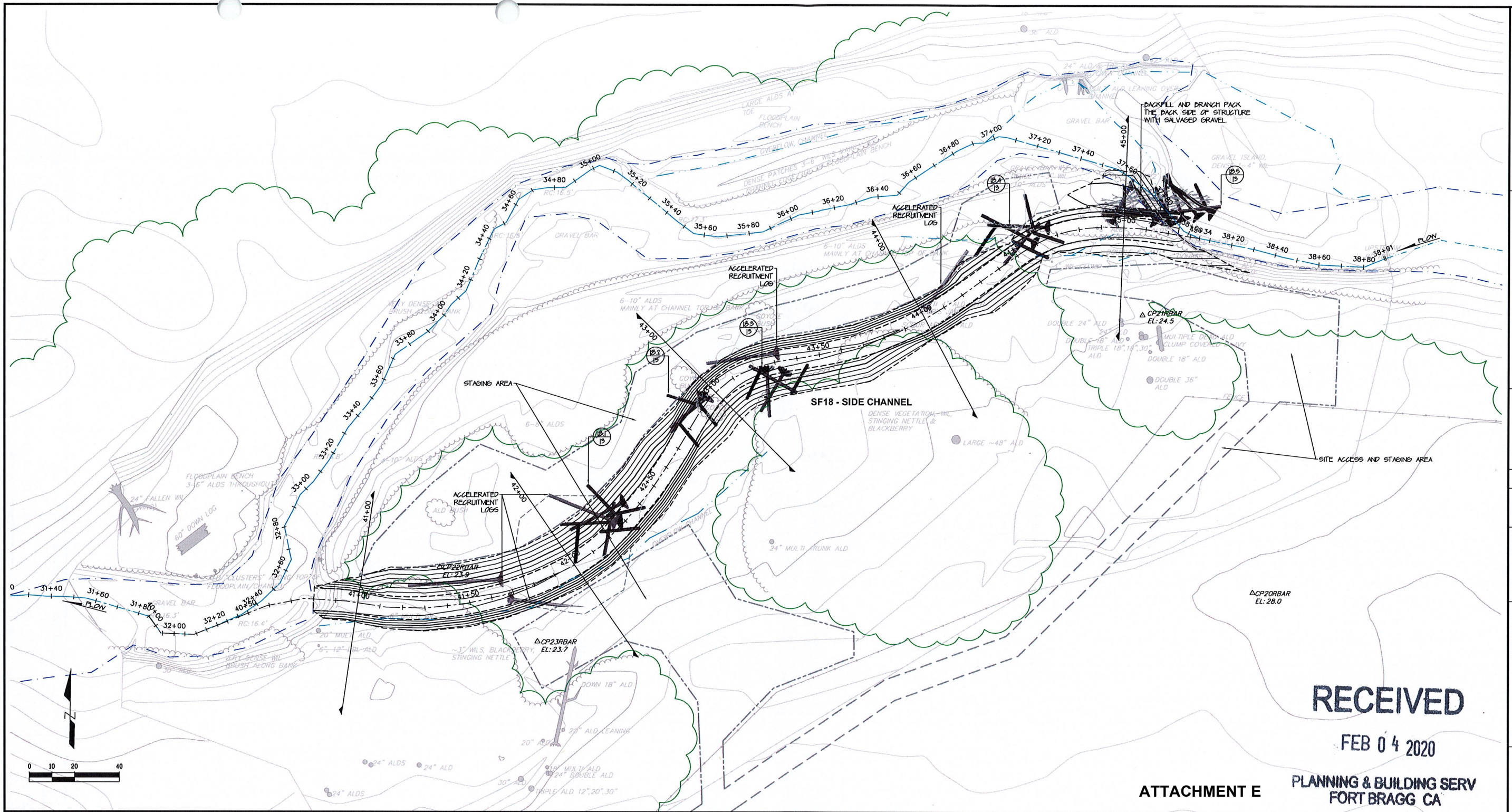
TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF10-12 EROSION CONTROL & REVEGETATION PLAN

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9
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Plot Date: 1/29/2020 3:39 PM Layout: SF18 PLAN AND PROFILE



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TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF18 PLAN AND PROFILE

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OF 18

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DESIGNED BY: LH, MJ, LW
DRAFTED BY: LW, BKS
CHECKED BY: MJ, LH

REVISIONS
DATE BY
65% PLAN
PRELIMINARY
DATE: July 29, 2020

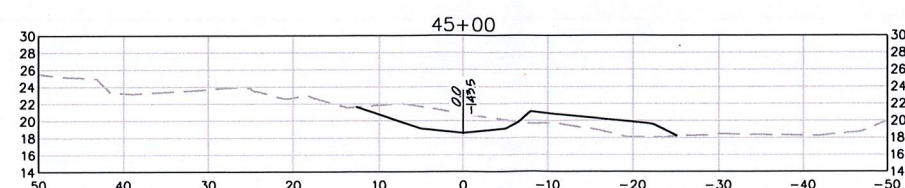
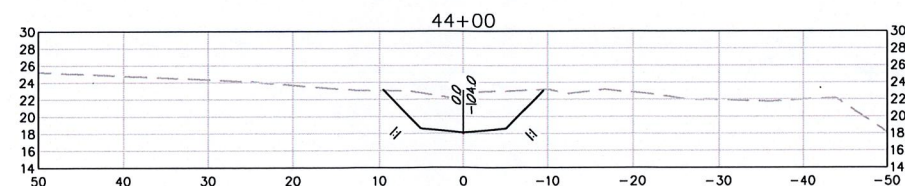
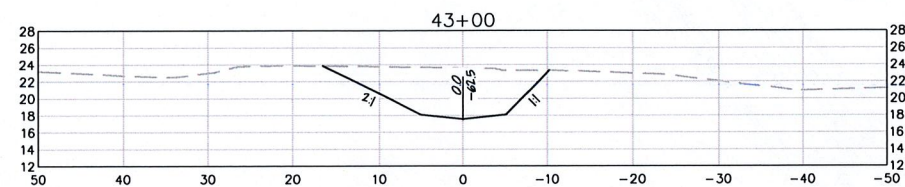
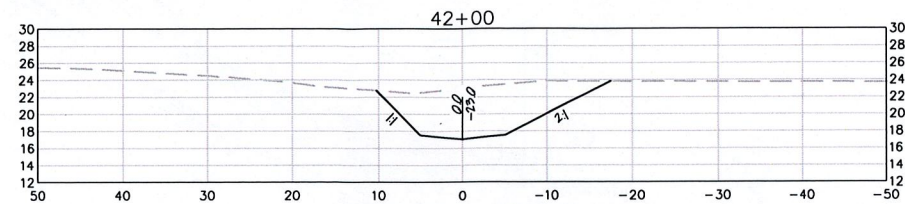
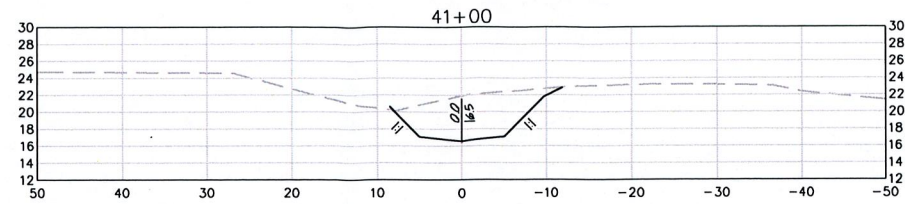
PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEASIDE, CA 94134
(707) 424-1400

Acad File Name: G:\Wood Drawings\Ten Mile River\02_Plan\18_Cross\18_Cross Sections
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DESIGNED BY: LH, ML, LW
DRAFTED BY: LW, BKS
CHECKED BY: ML, LH

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF18 CROSS SECTIONS

SHEET

12

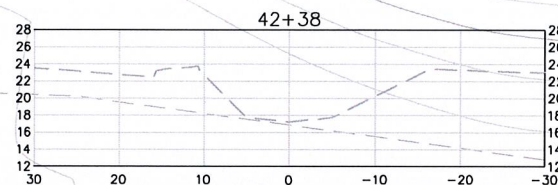
OF 18

ATTACHMENT E

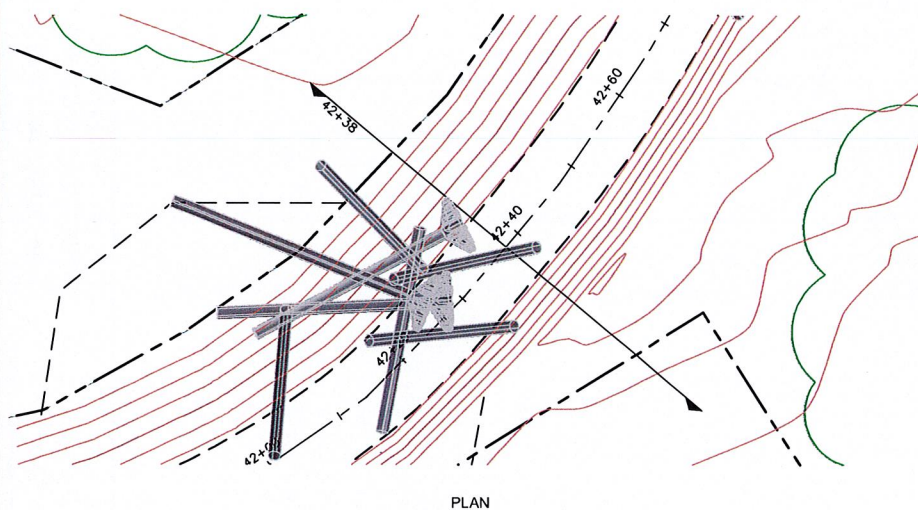


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18.1 LARGE WOOD STRUCTURE

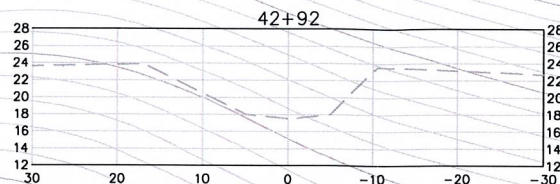


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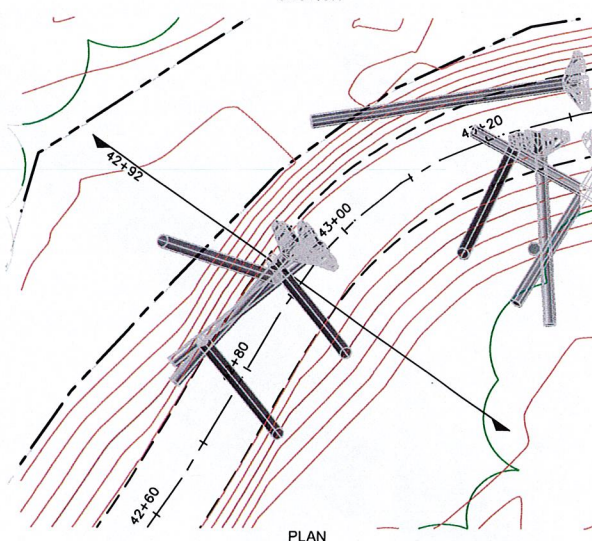


PLAN

18.2 LARGE WOOD STRUCTURE

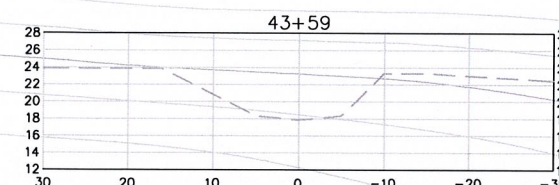


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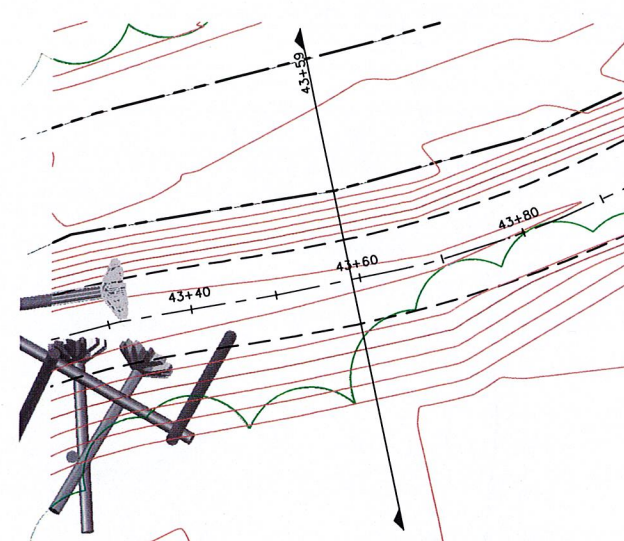


PLAN

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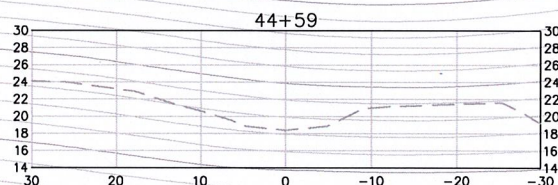


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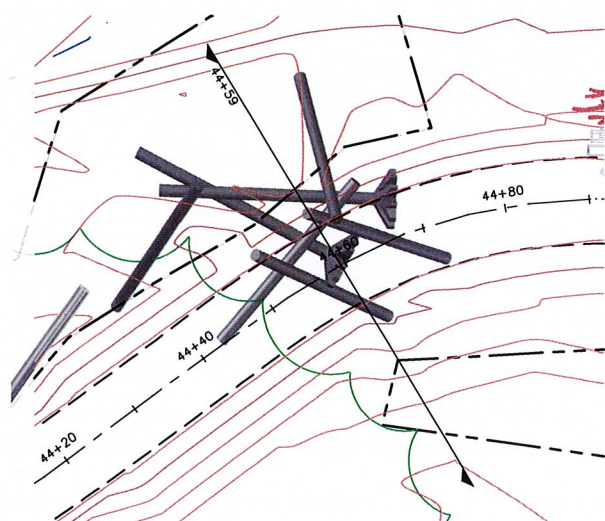


PLAN

18.4 LARGE WOOD STRUCTURE

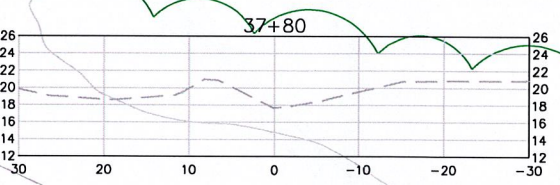


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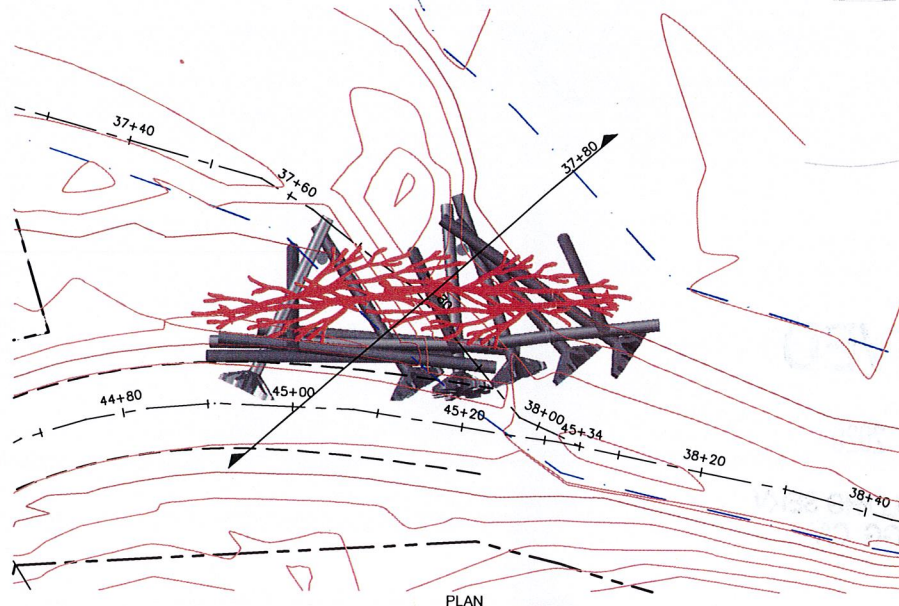


PLAN

18.5 LARGE WOOD STRUCTURE



SECTION



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LEGEND

- LOG-LOG CONNECTION INDICATES 25' LONG V.L.A.
- EXISTING GRADE
- DESIGN GRADE

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TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF18 LWD

SHEET
13
OF 18

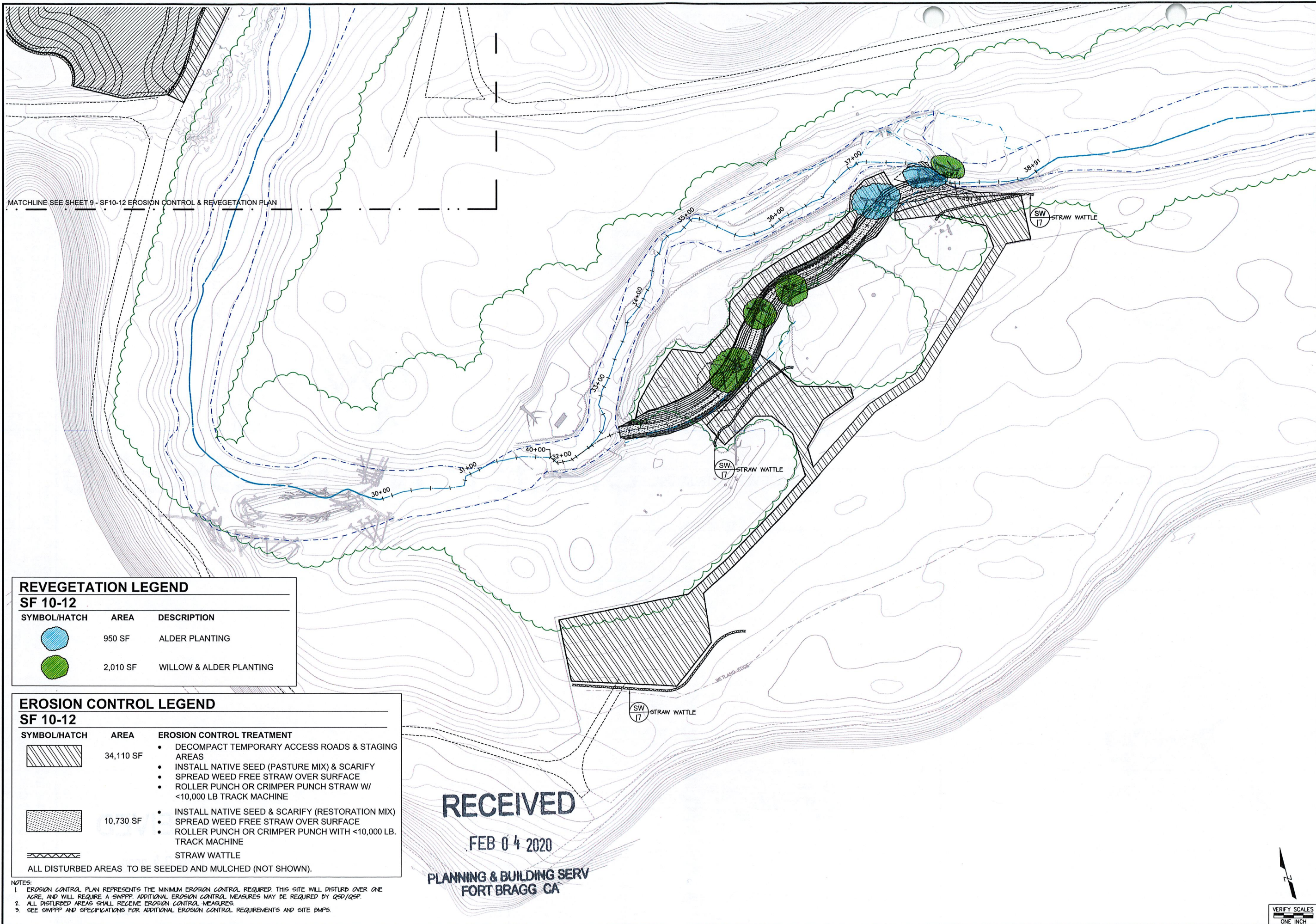
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DESIGNED BY:	LW, BKS	
DRAFTED BY:	MJ, LH	
CHECKED BY:		

65% PLAN
PRELIMINARY
DATE: July 29, 2020

PREPARED FOR:
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SAN FRANCISCO, CA 94105

PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEASIDE, CA 94134
(707) 834-6000

Acad File Name: G:\Acad Drawings\1000\Ten Mile River\102_Phase1B\Drawings\EC&RP.dwg
Plot Date: 1/29/2020 4:24 PM Layout: SF 18 EROSION CONTROL & REVEGETATION PLAN



REVEGETATION LEGEND		
SF 10-12		
SYMBOL/HATCH	AREA	DESCRIPTION
	950 SF	ALDER PLANTING
	2,010 SF	WILLOW & ALDER PLANTING

EROSION CONTROL LEGEND		
SF 10-12		
SYMBOL/HATCH	AREA	EROSION CONTROL TREATMENT
	34,110 SF	<ul style="list-style-type: none">• DECOMPACT TEMPORARY ACCESS ROADS & STAGING AREAS• INSTALL NATIVE SEED (PASTURE MIX) & SCARIFY• SPREAD WEED FREE STRAW OVER SURFACE• ROLLER PUNCH OR CRIMPER PUNCH STRAW W/ <10,000 LB TRACK MACHINE
	10,730 SF	<ul style="list-style-type: none">• INSTALL NATIVE SEED & SCARIFY (RESTORATION MIX)• SPREAD WEED FREE STRAW OVER SURFACE• ROLLER PUNCH OR CRIMPER PUNCH WITH <10,000 LB. TRACK MACHINE
		STRAW WATTLE
ALL DISTURBED AREAS TO BE SEEDED AND MULCHED (NOT SHOWN).		

NOTES:
1. EROSION CONTROL PLAN REPRESENTS THE MINIMUM EROSION CONTROL REQUIRED. THIS SITE WILL DISTURB OVER ONE ACRE AND WILL REQUIRE A SWPPP. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY RSD/QSP.
2. ALL DISTURBED AREAS SHALL RECEIVE EROSION CONTROL MEASURES.
3. SEE SWPPP AND SPECIFICATIONS FOR ADDITIONAL EROSION CONTROL REQUIREMENTS AND SITE BMPs.

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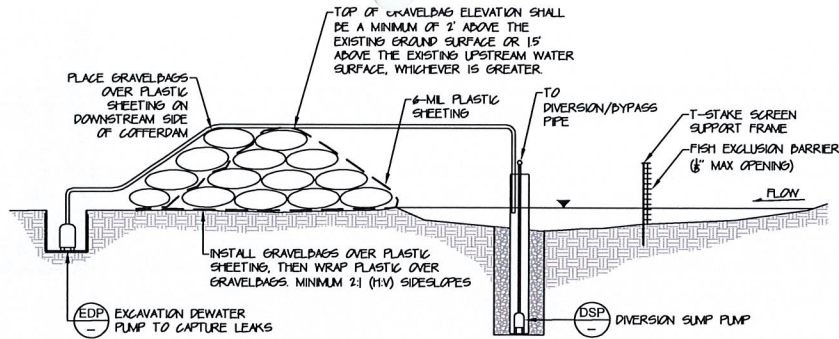
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SCALE: ###
MAPPING BY: JRH
DESIGNED BY: LH, MJ, LW
DRAFTED BY: LW, BKS
CHECKED BY: MJ, LH

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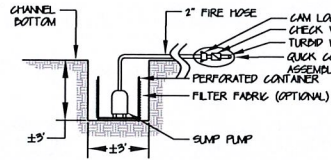
TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
SF18 EROSION CONTROL & REVEGETATION PLAN

SHEET
14
OF 18

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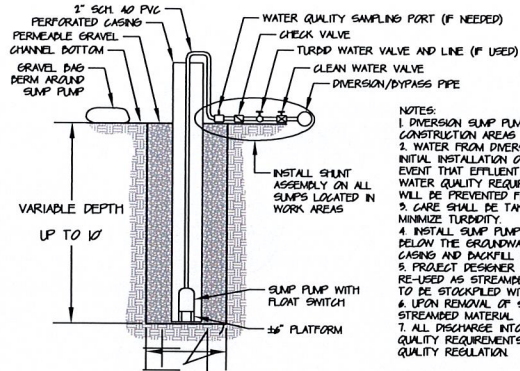


CD COFFER DAM - PUMP DIVERSION - PROFILE
NTS



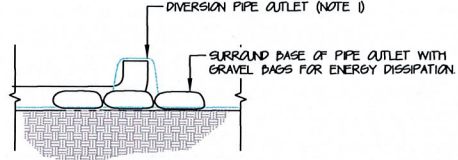
EDP EXCAVATION DEWATER PUMP
NTS

NOTES:
1. EXCAVATION DEWATER PUMPS SHALL BE INSTALLED AS NEEDED DURING CONSTRUCTION TO HANDLE SHORT TERM OR INTERMITTENT SURFACE WATER. THEY ARE INTENDED TO BE PORTABLE AND FUNCTION TO REMOVE TURBID SURFACE WATER.
2. INSTALL QUICK COUPLER ASSEMBLIES INTERMITTENTLY AS NEEDED ALONG TURBID WATER LINE TO PROVIDE ACCESS POINTS FOR EXCAVATION DEWATER PUMPS.



DSP DIVERSION SUMP PUMP
NTS

NOTES:
1. DIVERSION SUMP PUMPS ARE LOCATED AS NECESSARY IN CONSTRUCTION AREAS TO MAINTAIN A DRY CONSTRUCTION SITE.
2. WATER FROM DIVERSION SUMP PUMPS MAY BECOME TURBID AFTER INITIAL INSTALLATION OR A NEARBY GROUND DISTURBANCE. IN THE EVENT THAT EFFLUENT FROM DIVERSION SUMP PUMPS DOES NOT MEET WATER QUALITY REQUIREMENTS, TURBID WATER FROM ISOLATED PUMPS WILL BE PREVENTED FROM ENTRY TO STREAM.
3. CARE SHALL BE TAKEN AROUND ALL DIVERSION SUMP PUMPS TO MINIMIZE TURBIDITY.
4. INSTALL SUMP PUMPS BY FIRST EXCAVATING TRENCH TO A DEPTH BELOW THE GROUNDWATER SURFACE. THEN INSERT PERFORATED CASING AND BACKFILL WITH PERMEABLE GRAVEL.
5. PROJECT DESIGNER TO DETERMINE IF EXCAVATED MATERIAL MAY BE RE-USED AS STREAMBED MATERIAL. OTHERWISE EXCAVATED MATERIAL TO BE STOCKPILED WITH PROJECT SOILS.
6. UPON REMOVAL OF SUMP PUMP AND CASING, BACKFILL HOLE WITH STREAMBED MATERIAL.
7. ALL DISCHARGE INTO A NATURAL STREAM SHALL MEET WATER QUALITY REQUIREMENTS ESTABLISHED BY PERMIT OR OTHER WATER QUALITY REGULATION.



OED OUTLET ENERGY DISSIPATOR
NTS

NOTES:
1. INSTALL 90 DEGREE BEND AND GRAVEL BAG ENERGY DISSIPATORS AT ALL PIPE OUTLETS IN THE DEWATER SYSTEM. ENERGY DISSIPATORS SHALL FUNCTION TO ELIMINATE ANY DISTURBANCE TO THE BOTTOM OF THE STREAM CHANNEL FROM WATER EXITING THE SYSTEM.

- NOTES:
1. ALL SITES TO BE DEWATERED FOR IN-STREAM CONSTRUCTION ACTIVITY.
 2. ALL DEWATER REACHES SHALL HAVE COFFER DAMS INSTALLED AT THE UPSTREAM AND DOWNSTREAM ENDS, PER COFFER DAM DETAILS (THIS PAGE).
 3. TURBID WATER TO BE CONTROLLED AND CONTAINED FROM ENTERING FLOWING WATER OR RIVER.
 4. THIS IS A SCHEMATIC DEWATERING PLAN FOR PERMITTING PURPOSES. ACTUAL PLAN TO BE PREPARED BY CONTRACTOR & SUBMITTED TO ENGINEER FOR REVIEW. SEE REQUIREMENTS IN SPECIFICATIONS.
 5. BEFORE GRADING OPERATIONS BEGIN, NATIVE PLANTS TO BE SALVAGED AND STORED ONSITE IN TEMPORARY NURSERY. SEE PLANTING PLAN FOR QUANTITIES REQUIRED.
 6. ALL STAGING AREAS TO HAVE TOP 6" OF TOPSOIL WITH ORGANICS AND WEED SEED STRIPPED AND REMOVED FROM SITE.
 7. STAGING LOCATIONS AND MINOR ACCESS ROUTES SHOWN AREA APPROXIMATE ONLY AND WILL BE ADJUSTED TO SAVE LARGE TREES AND INTACT NATIVE PLANT COMMUNITIES TO THE EXTENT FEASIBLE.
 8. THE RIPARIAN CANOPY WITH TREES AND UNDERSTORY PLANTS TO BE PROTECTED WITH ORANGE SAFETY FENCE AS SHOWN. ADDITIONAL PROTECTION FENCING MAY BE REQUIRED TO ADEQUATELY PROTECT NATURAL RESOURCES.
 9. ALL EXISTING TREES ARE SHOWN. SEE CANOPY OUTLINE ON PLAN AND PROFILE SHEETS FOR APPROXIMATE RIPARIAN FOREST AREA FOR PROJECT PLANNING.
 10. CLEARING AND GRUBBING OF SMALL TREES AND SHRUBS WILL BE REQUIRED FOR ACCESS.
 11. SMALL TREES AND LARGE WOODY SLASH WILL BE SALVAGED FOR REUSE IN THE PROJECT SITE (SEE WOOD DETAILS FOR SALVAGE WOOD DESCRIPTIONS).
 12. ALL DISTURBED AREAS WILL REQUIRE EROSION CONTROL TREATMENTS. SEE EROSION CONTROL PLANS.
 13. ALL AREAS DISTURBED BEYOND PROJECT AREAS, STAGING AND ACCESS ROUTES SHOWN IN CONTRACT DRAWINGS WILL HAVE APPROVED EROSION CONTROL INSTALLED AT THE CONTRACTOR'S EXPENSE.
 14. ALL RAMPS EXCAVATED FOR STREAM ACCESS SHALL BE FILLED AND RESTORED TO GRADE WITH EROSION CONTROL BLANKETS AND LIVE WILLOW STAKES UNLESS ALTERNATIVE TREATMENT IS APPROVED BY PROJECT DESIGNER.

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ATTACHMENT E

1"=10'

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
DEWATER DETAILS

SHEET

15

OF 18

PREPARED FOR:

THE NATURE CONSERVANCY
201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

REVISIONS

DATE: 1/29/2020
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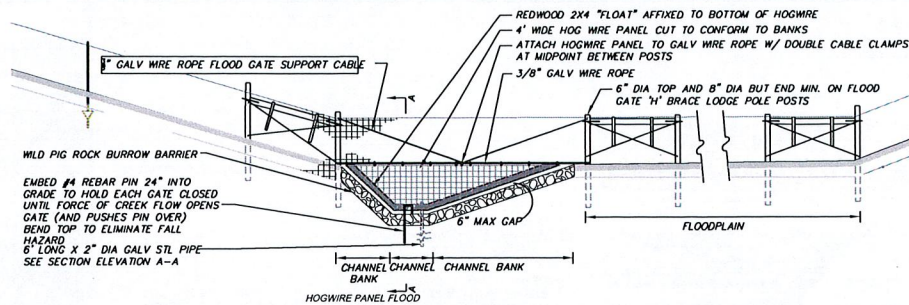
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15

OF 18



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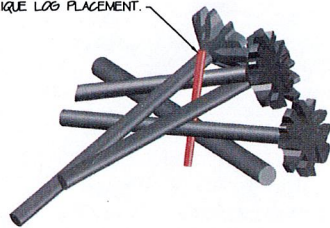


DETAIL 1
NTS

NOTES:

1. OBLIQUE LOGS SHALL BE 9-15" IN DIAMETER AND MAY TAPER THROUGH THIS FULL RANGE IN A SINGLE PIECE.
2. OBLIQUE LOGS SHALL BE A MINIMUM OF 10' IN LENGTH.
3. INSTALL LOGS TO HELP LOCK STRUCTURE TOGETHER IN TENSION OR COMPRESSION BY WEDGING BETWEEN STRUCTURE MEMBERS.
4. PROJECT END OUT FROM STRUCTURE 3-5' TO RACK FLOATING DEBRIS.
5. OBLIQUE LOGS ARE NOT PINNED BUT SHALL REMAIN IMMOBILE WHEN SUBMERGED.

TYP. OBLIQUE LOG PLACEMENT.

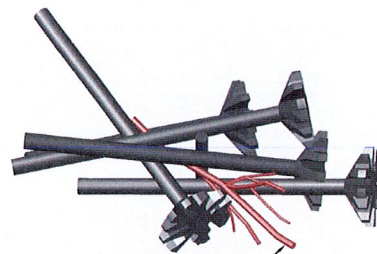


OL OBLIQUE LOG
1"=10'

NOTES:

1. SALVAGE MATERIAL SHALL BE PORTIONS OF TREES TAKEN FROM AREAS OF THE TREE WITH BRANCHED STRUCTURE.
2. MAIN TRUNK OF SALVAGE MATERIAL SHALL BE 6-15" IN DIAMETER, AND MAY TAPER THROUGH THIS FULL RANGE IN A SINGLE PIECE.
3. A MINIMUM OF THREE BRANCHES SHALL BE PRESENT ON EACH PIECE.
4. BRANCHES SHALL BE NO SMALLER THAN 3" IN DIAMETER AT THE TRIMMED END.
5. INSTALL LOGS TO HELP LOCK STRUCTURE TOGETHER IN TENSION OR COMPRESSION BY WEDGING BETWEEN STRUCTURE MEMBERS.
6. PROJECT END OUT FROM STRUCTURE 3-10' TO RACK FLOATING DEBRIS.
7. SALVAGE MATERIAL IS NOT PINNED BUT SHALL REMAIN IMMOBILE WHEN SUBMERGED.
8. MANILLA ROPE MAY BE USED TO HELP SECURE SALVAGE MATERIAL.

TYP. SALVAGE LOG PLACEMENT.

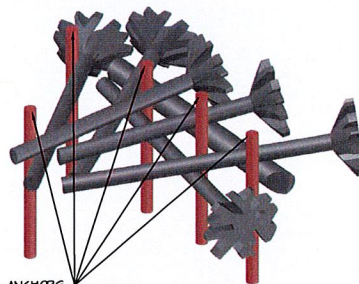


SM SALVAGE MATERIAL
1"=10'

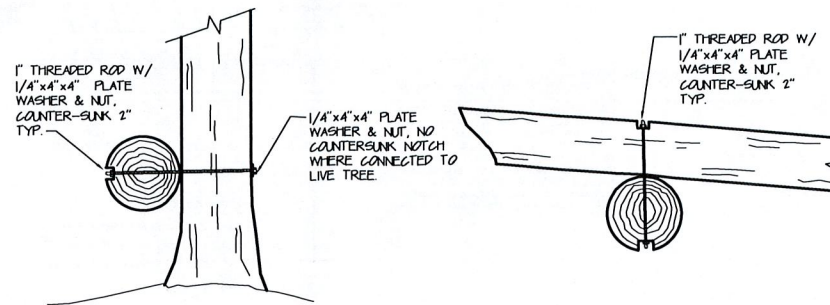
NOTES:

1. TAPERED END OF VERTICAL LOG ANCHORS SHALL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE SPECIFIED.
2. VERTICAL LOG ANCHORS SHALL BE A MINIMUM OF 20' IN LENGTH UNLESS OTHERWISE SPECIFIED.
3. INSTALL VERTICAL LOG ANCHORS AS SHOWN IN CONTRACT DRAWINGS.
4. PIN VERTICAL LOG ANCHORS AS SHOWN IN CONTRACT DRAWINGS.
5. INSTALL VERTICAL LOG ANCHORS WITH TAPERED END DOWN.
6. VERTICAL LOG ANCHORS SHALL BE DRIVEN A MINIMUM OF 15 FEET INTO NATIVE UNDISTURBED SOIL UNLESS OTHERWISE SPECIFIED.

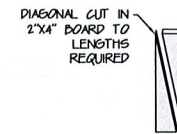
TYP. VERTICAL LOG ANCHORS



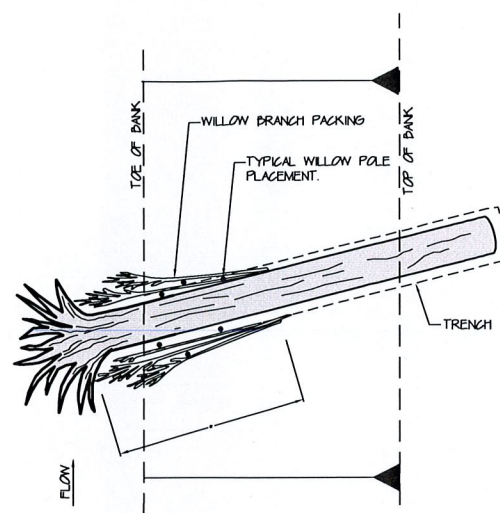
VLA VERTICAL LOG ANCHOR
1"=10'



LL LOG-LOG CONNECTION
NTS



WS WOOD WEDGE STAKE
NTS



WP ELJ WILLOW POLE AND BRANCH PACKING
NTS

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ATTACHMENT E

VERIFY SCALES
ONE INCH



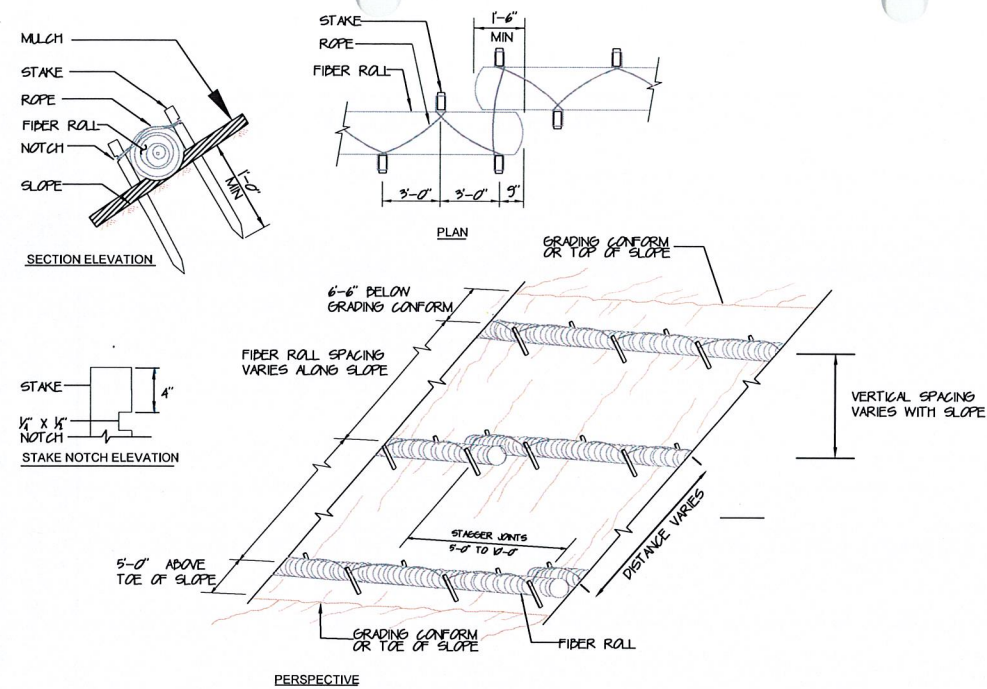
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SAN FRANCISCO, CA 94105

DATE: 1/29/2020
SCALE: AS SHOWN
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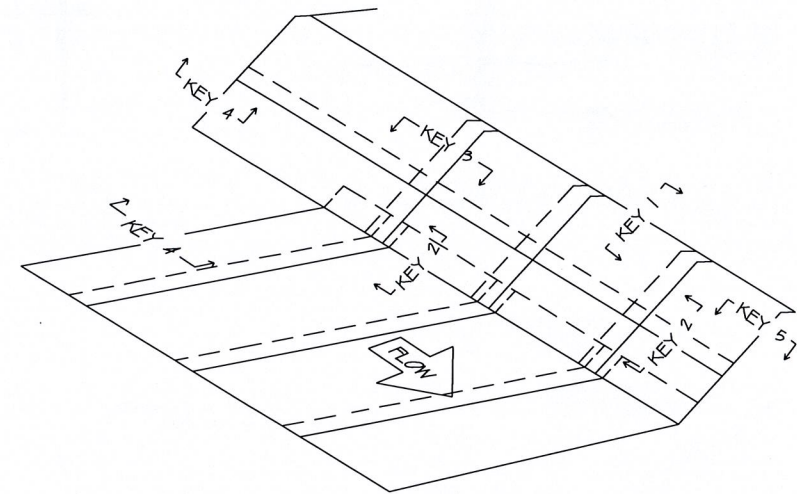
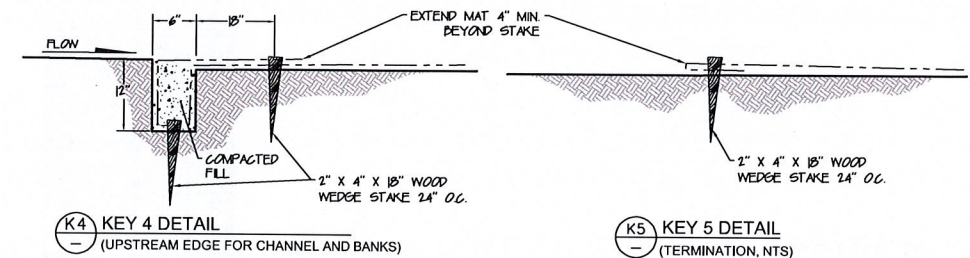
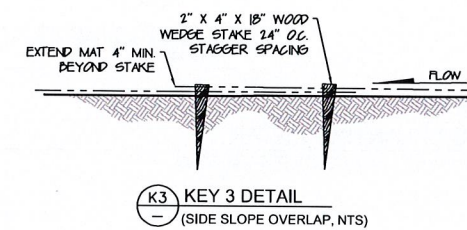
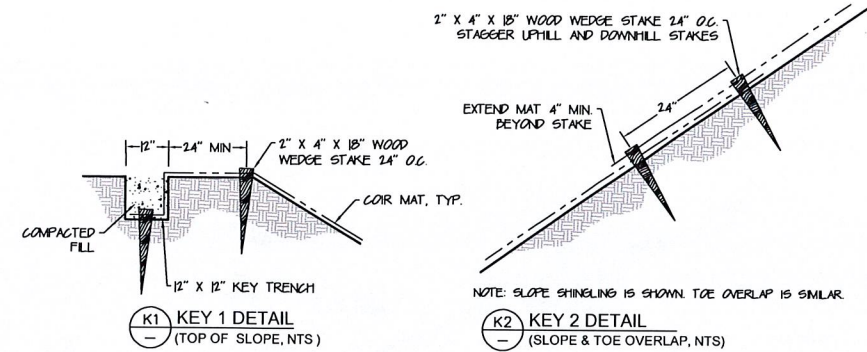
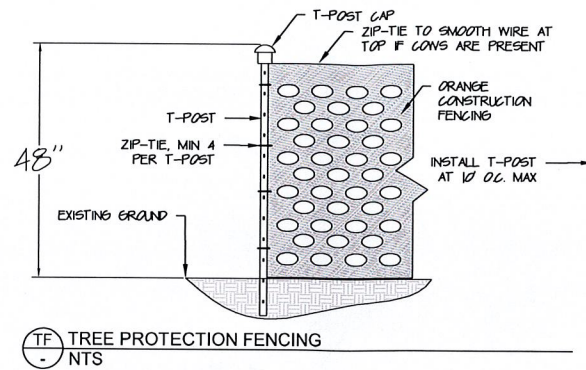
TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
CONSTRUCTION DETAILS

SHEET
16
OF 18

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(SW) STRAW WATTLE DETAIL
- NTS



NOTES:

1. PREPARE SOIL BEFORE INSTALLING COIR MAT AND BLANKET, INCLUDING SEEDING.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING MAT IN A 12\"/>

(EC) EROSION CONTROL
- NTS

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ATTACHMENT E

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VERIFY SCALES
ONE INCH

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
EROSION CONTROL DETAILS

SHEET

17

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PREPARED FOR:
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CHECKED BY: MJ, LH

REVISIONS

DATE

BY

65% PLAN
PRELIMINARY
DATE: July 29, 2020

DATE: 1/29/2020

SCALE: AS SHOWN

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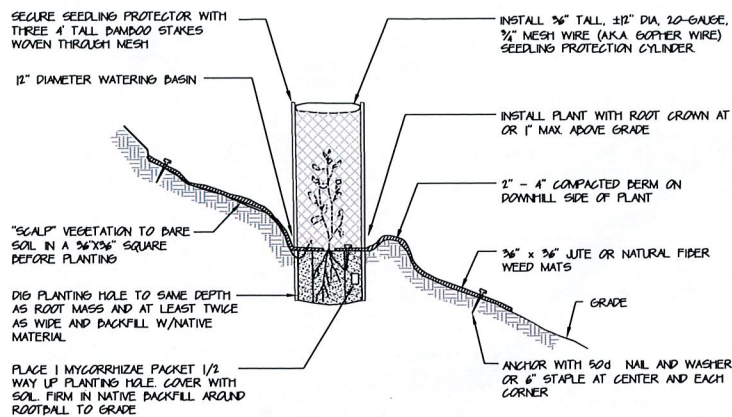
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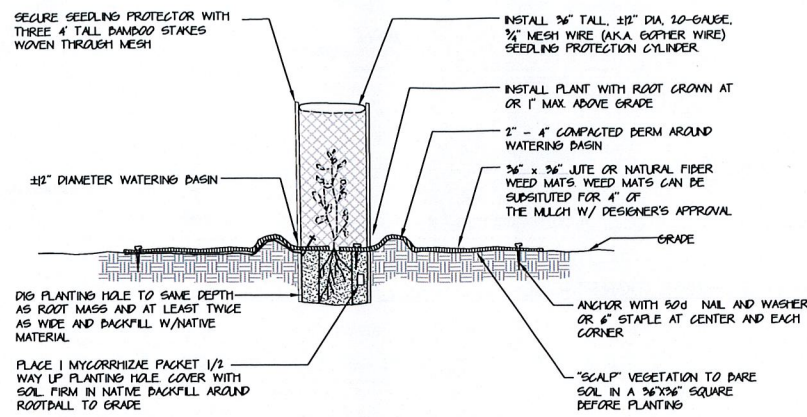
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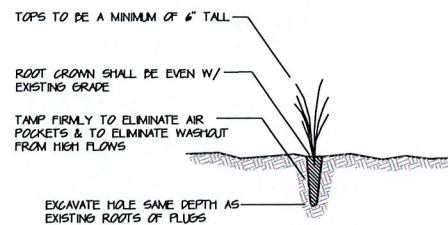


INSTALLATION ON HILL SLOPE

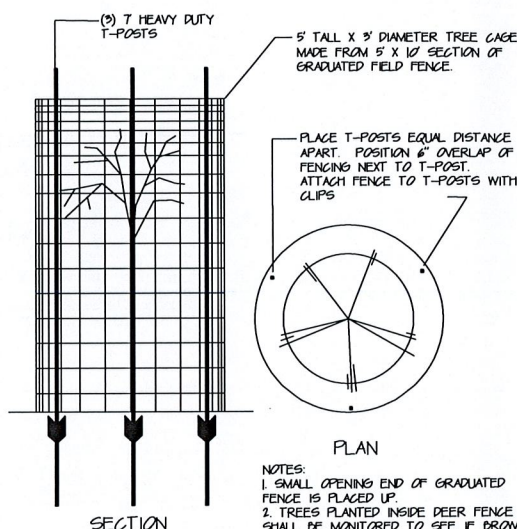
CP
CONTAINER PLANTING DETAIL
FOR CONTAINER GROWN PLANTS UNDER 5 GALLONS



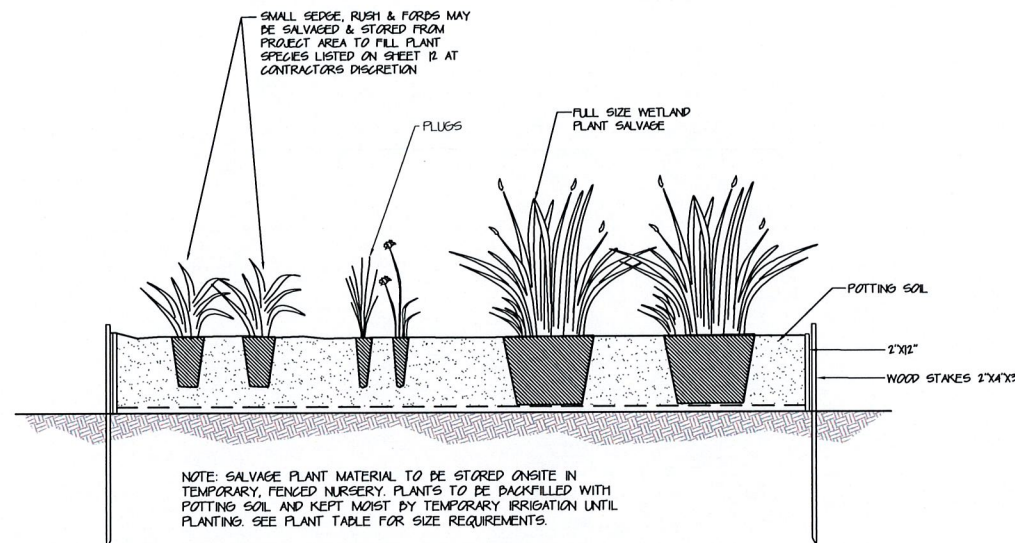
INSTALLATION ON FLAT GROUND



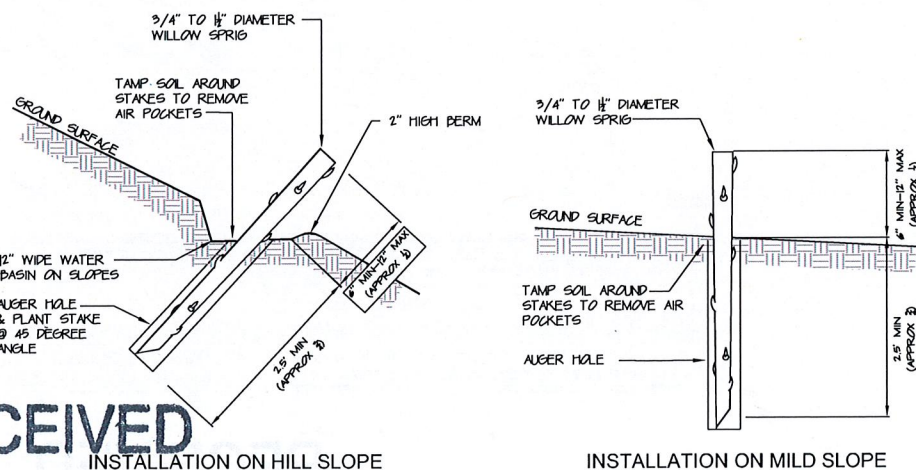
PP
PLUG PLANTING DETAIL
NTS



TC
TREE CAGE DETAIL
NTS



TN
SALVAGE PLANTING TEMPORARY NURSERY DETAIL
NTS



INSTALLATION ON HILL SLOPE

INSTALLATION ON MILD SLOPE

NOTE: VEXAR MAY BE APPLIED TO STAKES FOR BROWSE PROTECTION IN SPRING

WS
WILLOW & DOGWOOD STAKE PLANTING DETAILS
NTS

ATTACHMENT E

VERIFY SCALES
ONE INCH



PREPARED FOR:
THE NATURE CONSERVANCY
201 MISSION ST, 4TH FLOOR
SAN FRANCISCO, CA 94105

DATE	BY	REVISIONS
1/29/2020	AS SHOWN	
SCALE:	MAP BY: JFH	
DESIGNED BY: LH, MJ, LW		
DRAFTED BY: LW, BKS		
CHECKED BY: MJ, LH		

TEN MILE RIVER - PHASE 1B
SOUTH FORK ENHANCEMENT
REVEGETATION DETAILS

SHEET
18
OF 18

RESOLUTION NO. 17-140

RESOLUTION OF THE MENDOCINO COUNTY BOARD OF SUPERVISORS AUTHORIZING THE PROCESSING OF A CONSOLIDATED COASTAL DEVELOPMENT PERMIT BY THE CALIFORNIA COASTAL COMMISSION FOR THE NATURE CONSERVANCY TO INCREASE WINTER SURVIVAL AND REARING CAPACITY FOR COHO SALMON THROUGH VARIOUS IMPROVEMENTS TO THE SOUTH FORK OF THE TEN MILE RIVER

WHEREAS, the Coastal Act was amended by Senate Bill 1843 effective January 1, 2007, which allows for a consolidated permitting process for projects for which the Coastal Development Permit (CDP) authority is shared by a local government and the California Coastal Commission; and

WHEREAS, SB 1843 requires that the applicant, the local government and the California Coastal Commission agree to the consolidation; and

WHEREAS, the proposed winter survival and rearing capacity improvements for coho salmon to the South Fork of the Ten Mile River are under the coastal development permit authority of both Mendocino County and the California Coastal Commission and would otherwise require a coastal development permit from both Mendocino County and from the California Coastal Commission for the improvements located within each jurisdiction; and

WHEREAS, pursuant to Public Resources Code Section 30601.3, added by SB 1843, consolidation may only proceed where public participation is not substantially impaired by the consolidation; and

WHEREAS, public participation will not be substantially impaired as the California Coastal Commission will hold a public hearing, which may be attended by all interested parties (by either being present during a properly noticed California Coastal Commission meeting or by timely submitting comments in advance of a meeting) and the consolidation of the permit process will allow for this project, which involves improvements to the South Fork of the Ten Mile River to increase winter survival and rearing capacity for coho salmon, to be evaluated in its entirety.

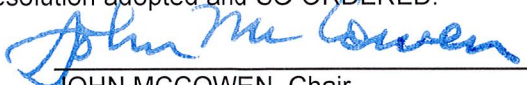
NOW, THEREFORE, BE IT RESOLVED that the Mendocino County Board of Supervisors authorizes the California Coastal Commission to accept and process a consolidated Coastal Development Permit application for the Nature Conservancy to increase winter survival and rearing capacity for coho salmon in the South Fork of the Ten Mile River.

The foregoing Resolution introduced by Supervisor Croskey, seconded by Supervisor Brown, and carried this 3rd day of October, 2017, by the following vote:

AYES:	Supervisors Brown, McCowen, Croskey, Gjerde, and Hamburg
NOES:	None
ABSENT:	None

WHEREUPON, the Chair declared said Resolution adopted and SO ORDERED.

ATTEST: CARMEL J. ANGELO
Clerk of the Board

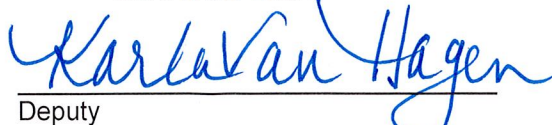

JOHN MCCOWEN, Chair
Mendocino County Board of Supervisors


Deputy

I hereby certify that according to the provisions of Government Code Section 25103, delivery of this document has been made.

APPROVED AS TO FORM:
KATHARINE L. ELLIOTT
County Counsel

BY: CARMEL J. ANGELO
Clerk of the Board


Deputy

RESOLUTION NO. 20-

RESOLUTION OF THE MENDOCINO COUNTY BOARD OF SUPERVISORS AUTHORIZING THE PROCESSING OF A CONSOLIDATED COASTAL DEVELOPMENT PERMIT BY THE CALIFORNIA COASTAL COMMISSION FOR THE NATURE CONSERVANCY TO INCREASE WINTER SURVIVAL AND REARING CAPACITY FOR COHO SALMON THROUGH VARIOUS IMPROVEMENTS TO THE SOUTH FORK OF THE TEN MILE RIVER

WHEREAS, the Coastal Act was amended by Senate Bill 1843 effective January 1, 2007, which allows for a consolidated permitting process for projects for which the Coastal Development Permit (CDP) authority is shared by a local government and the California Coastal Commission; and

WHEREAS, SB 1843 requires that the applicant, the local government and the California Coastal Commission agree to the consolidation; and

WHEREAS, the proposed winter survival and rearing capacity improvements for coho salmon to the South Fork of the Ten Mile River are under the coastal development permit authority of both Mendocino County and the California Coastal Commission and would otherwise require a coastal development permit from both Mendocino County and from the California Coastal Commission for the improvements located within each jurisdiction; and

WHEREAS, pursuant to Public Resources Code Section 30601.3, added by SB 1843, consolidation may only proceed where public participation is not substantially impaired by the consolidation; and

WHEREAS, public participation will not be substantially impaired as the California Coastal Commission will hold a public hearing, which may be attended by all interested parties (by either being present during a properly noticed California Coastal Commission meeting or by timely submitting comments in advance of a meeting) and the consolidation of the permit process will allow for this project, which involves improvements to the South Fork of the Ten Mile River to increase winter survival and rearing capacity for coho salmon, to be evaluated in its entirety.

NOW, THEREFORE, BE IT RESOLVED that the Mendocino County Board of Supervisors authorizes the California Coastal Commission to accept and process a consolidated Coastal Development Permit application for the Nature Conservancy to increase winter survival and rearing capacity for coho salmon in the South Fork of the Ten Mile River.

The foregoing Resolution introduced by Supervisor _____, seconded by Supervisor _____, and carried this _____ day of _____, 2020, by the following vote:

AYES:
NOES:
ABSENT:

WHEREUPON, the Chair declared said Resolution adopted and SO ORDERED.

ATTEST: CARMEL J. ANGELO
Clerk of the Board

JOHN HASCHAK, Chair
Mendocino County Board of Supervisors

Deputy

I hereby certify that according to the provisions of Government Code Section 25103, delivery of this document has been made.

APPROVED AS TO FORM:
CHRISTIAN CURTIS
Acting County Counsel

BY: CARMEL J. ANGELO
Clerk of the Board

Deputy