



United States Department of the Interior

NATIONAL PARK SERVICE

Yosemite National Park
P. O. Box 577
Yosemite, California 95389

IN REPLY REFER TO:

L7615(YOSE-PM)

Memorandum

To: Mike Gauthier, Project Manager, Yosemite National Park

From: Superintendent, Yosemite National Park

Subject: NEPA and NHPA Clearance: 2015-018 El Portal Buckeye Road Erosion Control Measure Installation (59618)

The Executive Leadership Team has reviewed the proposed project and completed its environmental assessment documentation, and we have determined the following:

- Will not be any effect on threatened, endangered, or rare species and/or their critical habitat.
- Will be no adverse effect on historical, cultural, or archeological resources.
- Will not be serious or long-term undesirable environmental or visual effects.

The subject proposed project/action(s), therefore, is/are now cleared for all NEPA and NHPA compliance requirements as presented above. Project plans and specifications are approved and construction and/or project implementation can commence.

For the proposed project actions to be within compliance requirements during construction and/or project implementation, the following mitigations must be adhered to:

Time permitting, archaeological spot monitoring is recommended. Contact Compliance Archaeologist Sara Dolan if unanticipated historical or prehistoric resources are located during ground-disturbing activities.

Recommendations for Conditions or Stipulations:

None

For complete compliance information see PEPC Project 59618.

// Don L. Neubacher //

Don L. Neubacher

Enclosure (with attachments)

cc: Statutory Compliance File

*The signed original of this document is on file at the
Environmental Planning and Compliance Office in
Yosemite National Park.*

Letter of Compliance Completion - El Portal Buckeye Road Erosion Control Measure Installation - PEPC ID: 59618



Categorical Exclusion Form

Project: 2015-018 El Portal Buckeye Road Erosion Control Measure Installation

PEPC Project Number: 59618

Project Description:

This project consists of the following elements:

-install a gabion basket debris flow wall across the width of the drainage swale above the house at 9722 Buckeye Road in Old El Portal,

-fertilize and hand seed the three burned out areas of the drainage ravine hillside slopes above 9722 Buckeye Road, and cover the area with a biodegradable erosion control matting material, and

-fertilize, hand seed, and cover burned out area above and below the pedestrian trail above Foresta Road with a biodegradable erosion control matting material and install silt wattles above and below the trail,

-smooth out and re-grade the erosion gulley above the residence, then fertilize and hand seed the gulley after re-grading,

-smooth out and re-grade the erosion gulley below Foresta Road, fertilize and hand seed the gulley after re-grading, install two sandbag water-diversion walls on Foresta Road above the fire origin area and three lines of low asphalt diversion berms to redirect runoff,

-monitor the new wall and catch basin, and

-replace lost sandbags and extend the height of existing diversion walls at 5674 Foresta Road.

Project Locations:

Mariposa County, Ca

Mitigation(s):

Time permitting, archaeological spot monitoring is recommended. Contact Compliance Archaeologist Sara Dolan if unanticipated historical or prehistoric resources are located during ground-disturbing activities

Describe the category used to exclude action from further NEPA analysis and indicate the number of the category (see Section 3-4 of DO-12):

C.18 Construction of minor structures, including small improved parking lots, in previously disturbed or developed areas.

On the basis of the environmental impact information in the statutory compliance file, with which I am familiar, I am categorically excluding the described project from further NEPA analysis. No exceptional circumstances (e.g. all boxes in the ESF are marked "no") or conditions in Section 3-6 apply, and the action is fully described in Section 3-4 of DO-12.

Signature

Superintendent: // Don L. Neubacher //

Date: 9/17/2015

Don L. Neubacher



ENVIRONMENTAL SCREENING FORM (ESF)

Updated Sept 2015 per NPS NEPA Handbook

A. PROJECT INFORMATION

Project Title: 2015-018 El Portal Buckeye Road Erosion Control Measure Installation
PEPC Project Number: 59618
Project Type: Special Use Permit (SUP)
Project Location:
County, State: Mariposa, California **District, Section:** El Portal, CA
Project Leader: Mike Gauthier

B. RESOURCE IMPACTS TO CONSIDER:

Resource	Potential for Impact	Potential Issues & Impacts
Air Air Quality	None	
Biological Nonnative or Exotic Species	Potential	Issue: Project involves re-seeding Impact: Potential to introduce nonnatives but mitigated by use of natural grasses per NPS specifications
Biological Species of Special Concern or Their Habitat	None	
Biological Vegetation	None	
Biological Wildlife and/or Wildlife Habitat including terrestrial and aquatic species	None	
Cultural Archeological Resources	Potential	Issue: Ground disturbing activities to install wall and regrade erosion gullies Impact: Archaeological spot monitoring is recommended. All work will be done by hand not with equipment.
Cultural Cultural Landscapes	None	
Cultural Ethnographic Resources	None	

Resource	Potential for Impact	Potential Issues & Impacts
Cultural Museum Collections	None	
Cultural Prehistoric/historic structures	None	
Geological Geologic Features	None	
Geological Geologic Processes	None	
Lightscares Lightscares	None	
Other Human Health and Safety	Potential	Impact: Beneficial impact
Other Other		
Socioeconomic Land Use	None	
Socioeconomic Minority and low-income populations, size, migration patterns, etc.	None	
Socioeconomic Socioeconomic	None	
Soundscapes Soundscapes	None	
Viewsheds Viewsheds	None	
Visitor Use and Experience Recreation Resources	None	
Visitor Use and Experience Visitor Use and Experience	None	
Water Floodplains	None	
Water Marine/Estuarine Resources	None	
Water Streamflow Characteristics	Potential	Impact: Changes to surface water flow (diversion wall and sand bags)

Resource	Potential for Impact	Potential Issues & Impacts
Water Water Quality or Quantity	None	
Water Wetlands	None	
Water Wild and Scenic River	None	
Wilderness Wilderness	None	

Reviewers:

Madelyn Ruffner

Recommended:

	Date
<u>// Kyle Meakins //</u> Compliance Specialist – Kyle Meakins	<u>9/16/2015</u>
<u>// Madelyn Ruffner //</u> Compliance Program Manager – Madelyn Ruffner	<u>9/16/2015</u>
<u>// Randy Fong //</u> Chief, Project Management – Randy Fong	<u>9/17/2015</u>

Approved:

Superintendent	Date
<u>// Don L. Neubacher //</u> Don L. Neubacher	<u>9/17/2015</u>



ASSESSMENT OF ACTIONS HAVING AN EFFECT ON HISTORIC PROPERTIES

A. DESCRIPTION OF UNDERTAKING

1. **Park:** Yosemite National Park

2. **Project Description:**

Project Name: 2015-018 El Portal Buckeye Road Erosion Control Measure Installation
Prepared by: Madelyn Ruffner **Date Prepared:** 09/08/2015 **Telephone:** 209-379-1226
PEPC Project Number: 59618

Area of potential effects (as defined in 36 CFR 800.16[d])
Within El Portal Archeological District (but not within an archeological site)

3. **Has the area of potential effects been surveyed to identify historic properties?**

☐ No
☒ Yes

Source or reference: Some historic artifacts present, possibly associated with historic dumping in unnamed drainage

4. **Potentially Affected Resource(s):**

Archeological Resources Notes: not within an archeological site

5. **The proposed action will: (check as many as apply)**

- ☐ No Destroy, remove, or alter features/elements from a historic structure
- ☐ No Replace historic features/elements in kind
- ☐ No Add non-historic features/elements to a historic structure
- ☐ No Alter or remove features/elements of a historic setting or environment (inc. terrain)
Add non-historic features/elements (inc. visual, audible, or atmospheric) to a historic setting
☐ No or cultural landscape
- ☐ No Disturb, destroy, or make archeological resources inaccessible
- ☐ No Disturb, destroy, or make ethnographic resources inaccessible
- ☐ No Potentially affect presently unidentified cultural resources
- ☐ No Begin or contribute to deterioration of historic features, terrain, setting, landscape elements,
or archeological or ethnographic resources
- ☐ No Involve a real property transaction (exchange, sale, or lease of land or structures)
- ☐ Other (please specify): _____

6. Supporting Study Data:

(Attach if feasible; if action is in a plan, EA or EIS, give name and project or page number.)

B. REVIEWS BY CULTURAL RESOURCE SPECIALISTS

The park 106 coordinator requested review by the park's cultural resource specialist/advisors as indicated by check-off boxes or as follows:

[X] Anthropologist

Name: Scott Carpenter

Date: 09/08/2015

Comments: No ethnographic/sacred resources within project area.

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Park Specific Programmatic Agreement

[X] Archeologist

Name: Sara Dolan

Date: 08/31/2015

Comments: There are no archaeological sites located within the vicinity of the project area. An isolated historic artifact scatter is located nearby.

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations: Time permitting, archaeological spot monitoring is recommended. Contact Compliance Archaeologist Sara Dolan if unanticipated historical or prehistoric resources are located during ground-disturbing activities.

Doc Method: Park Specific Programmatic Agreement

[X] Historian

Name: Scott Carpenter

Date: 09/08/2015

Comments: No issues.

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Park Specific Programmatic Agreement

[X] Historical Architect

Name: Scott Carpenter

Date: 09/08/2015

Comments: No historic structures/properties involved.

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Park Specific Programmatic Agreement

[X] Historical Landscape Architect

Name: Scott Carpenter

Date: 09/08/2015

Comments: No historic landscapes involved.

Check if project does not involve ground disturbance []

Assessment of Effect: ☐ No Potential to Cause Effect ☒ No Historic Properties Affected ☐ No

Adverse Effect ☐ Adverse Effect ☐ Streamlined Review

Recommendations for conditions or stipulations:

Doc Method: Park Specific Programmatic Agreement

No Reviews From: Curator, 106 Advisor, Other Advisor

C. PARK SECTION 106 COORDINATOR'S REVIEW AND RECOMMENDATIONS

1. Assessment of Effect:

☐ No Potential to Cause Effects
☒ No Historic Properties Affected
☐ No Adverse Effect
☐ Adverse Effect

2. Documentation Method:

[] A. STANDARD 36 CFR PART 800 CONSULTATION

Further consultation under 36 CFR Part 800 is needed.

[] B. STREAMLINED REVIEW UNDER THE 2008 SERVICEWIDE PROGRAMMATIC AGREEMENT (PA)

The above action meets all conditions for a streamlined review under section III of the 2008 Servicewide PA for Section 106 compliance.

APPLICABLE STREAMLINED REVIEW Criteria
(Specify 1-16 of the list of streamlined review criteria.)

[] C. PLAN-RELATED UNDERTAKING

Consultation and review of the proposed undertaking were completed in the context of a plan review process, in accordance with the 2008 Servicewide PA and 36 CFR Part 800.
Specify plan/EA/EIS:

☒ D. UNDERTAKING RELATED TO ANOTHER AGREEMENT

The proposed undertaking is covered for Section 106 purposes under another document such as a statewide agreement established in accord with 36 CFR 800.7 or counterpart regulations.

1999 Parkwide Programmatic Agreement as amended in 2014

☐ E. COMBINED NEPA/NHPA Document

Documentation is required for the preparation of an EA/FONSI or an EIS/ROD has been developed and used so as also to meet the requirements of 36 CFR 800.3 through 800.6

☐ G. Memo to SHPO/THPO

☐ H. Memo to ACHP

SHPO/THPO Notes:

3. Additional Consulting Parties Information:

Additional Consulting Parties: No

Additional Consulting Parties Notes: Project was included on the September 2015 tribal consultation spreadsheet as an informational item

4. Stipulations and Conditions:

Following are listed any stipulations or conditions necessary to ensure that the assessment of effect above is consistent with 36 CFR Part 800 criteria of effect or to avoid or reduce potential adverse effects.

5. Mitigations/Treatment Measures:

Measures to prevent or minimize loss or impairment of historic/prehistoric properties:
(Remember that setting, location, and use may be relevant.)

D. RECOMMENDED BY PARK SECTION 106 COORDINATOR:

Historic Preservation Officer:

Kimball Koch // Kimball Koch // **Date** 9/16/2015

E. SUPERINTENDENT'S APPROVAL

The proposed work conforms to the NPS *Management Policies* and *Cultural Resource Management Guideline*, and I have reviewed and approve the recommendations, stipulations, or conditions noted in Section C of this form.

Superintendent: // Don L. Neubacher // **Date:** 9/17/2015
Don L. Neubacher

DRAINAGE SWALE AND TRAIL EROSION CONTROL REPAIR
9722 BUCKEYE AND TRAIL ABOVE FORESTA ROAD
El Portal, CA



LOCATION MAP

DRAWING INDEX:

SHEET	TITLE
1	Site Map, Site Plan, and Drawing Index
2	Drawing Notes
3	9722 Buckeye Drainage Swale Erosion Repair
4	9722 Buckeye Gabion Wall Sections and Details
5	Trail Above Foresta Road Erosion Repair
6	Erosion Control Sections and Details
7	Erosion Control Sections and Details

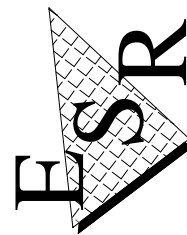


Site Map

Scale: N.T.S.

Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150

Lic. # 668184



Date:

PROJECT #
51243

SHEET
1
OF 7 SHEETS

DRAINAGE SWALE AND TRAIL
EROSION CONTROL REPAIRS

EL PORTAL
Designed: SOC
Checked: SOC
Drawn: RAA
Date: 06/08/2015
CALIFORNIA

REVISIONS

DATE

BY

LIMITATIONS NOTES

Our services consist of professional designs, opinions and recommendations made in accordance with generally accepted engineering geology, geotechnical engineering and civil engineering principles and practices. No warranty, expressed or implied, or merchantability of fitness, is made or intended in connection with our work, by the proposal for consulting or other services, or by the furnishing of oral or written reports or findings.

Any engineering design notes and specifications presented in this plan set are contingent upon our firm being consulted when any questions arise with regard to the notes and specifications contained herein, and to provide testing and inspection services for construction operations. Unanticipated soil and geologic conditions are commonly encountered during construction, which cannot be fully determined from existing exposures or by limited subsurface investigation. Such conditions may require additional expenditures during construction to obtain a properly constructed project.

GENERAL NOTES

1. It shall be understood the term Engineer as used herein is the design Civil Engineer, Steven O'Connor, or his authorized representative.
2. It shall be understood that the term City as used herein is the City of El Portal or its authorized representative.
3. It shall be understood that the term Contractor as used herein is Engineered Soil Repairs, Inc.; License number 668184 A & B.
4. All construction shall conform with the latest revision of the California Building Code (CBC), Cal/OSHA safety regulations and the City and County ordinances.
5. Construction work shall occur only between the hours of 7:30 A.M to 5:00 P.M, Monday through Friday (not including holidays), unless the City and Owner grants an exception.
6. The contractor shall be solely responsible for all means, methods, techniques and sequences of construction. The contractor shall also be solely responsible for all safety programs and procedures during construction. The contractor shall follow all instructions, recommendations and safety precautions provided by the manufacturer or supplier of any material or product required to do this work.
7. Any deviation from the approved plans during construction will require 24 hours prior notice to the Engineer. At least one set of plans shall be on site at all times for inspection.
8. No work whatsoever shall be commenced without first notifying the Owner.
9. It shall be Contractor's responsibility to coordinate inspections with the City and the Engineer.
10. The City may require special inspections by an independent agent in the building permit documents. The contractor is responsible for setting up these inspections. The Owner is responsible for the fees associated with the special inspections.
11. It shall be the contractor's responsibility to keep the work site safe at all times not just limited to the work hours.
12. All materials, methods and work to be in accordance with the project drawings, specifications as well as the Standard Provisions of the City and County.

13. Excess excavated soil and other construction related debris shall be removed from the site and taken to a dump site for disposal.
14. A permit, an approved backflow prevention device and a meter are required for temporary construction water from fire hydrant and or existing water service during construction.
15. The Contractor shall provide adequate dust control at all times as required by the City and the Owner. Any operation that creates excessive dust shall cease immediately until sufficient measures, satisfactory to the City and the Owner have been taken to insure compliance with dust control requirements.
16. The Contractor shall furnish and install all signs, lights, barricades, and other traffic control or warning devices, including flag person, as required by the City.
17. All work is subject to inspection and approval by the Owner, Engineer and the City.
18. Locations and elevations are approximate and shall be verified by the Contractor in the field.
19. See Contract Drawings and Specifications for all information relative to the new and existing construction and conditions. Resolve conflicts on drawings with the Engineer before proceeding with construction.
20. The Contractor shall verify the location of all utilities and shall protect them from harm as required to prevent damage and to maintain their use.
21. The Contractor shall be responsible for daily site cleanup.

SAFETY

1. The Contractor shall notify the Underground Service Alert (USA) a minimum of 2 working days prior to any digging. Call 1-800-642-2444.
2. The Contractor shall comply with all State, County, and City laws and ordinances, and regulations of the Department of Industrial Relations O.S.H.A., and Industrial Accident Commission relating to the safety and character of work equipment and labor personnel.
3. Contractor shall document and conduct regular safety meetings with its employees.
4. Contractor employees are to wear all required personal protective equipment.
5. The contractor shall isolate the work area from the public and shall provide protective fencing and/or barriers. It shall be the contractor's responsibility to keep the work site safe at all times not just limited to the work hours.
6. The Contractor shall be responsible for keeping all public rights-of-way and off-site areas from all dirt, mud, dust, and debris at all times.
7. The Contractor shall prevent the formation of any airborne nuisance by watering down and/or treating the site of the work in such a manner that will confine dust particles to the immediate work area. In addition, the noise level of operation shall be kept to a minimum as per the City.
8. Work shall be suspended, if in the opinion of the City, dust control measures are not adequate.
9. Sanitary facilities shall be maintained on the site.

MATERIALS

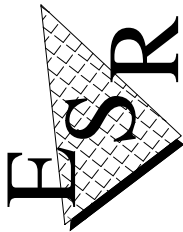
Products suggested are for the purpose of establishing a standard of quality. The Contractor may elect to sue other products of similar quality, providing prior approval is obtained from the Engineer. Unless otherwise specified in the contract documents, Contractor shall furnish all materials required for the work. Special inspections and testing of materials as required by the Building Department may be noted on the approved permit documents, and shall be paid by the Contractor or Owner as provided for in the contract documents.

DRAINAGE SWALE AND TRAIL
EROSION CONTROL REPAIR

EL PORTAL
Designed: SOC
Checked: SOC
Drawn: RAA
Date: 06/08/2015
CALIFORNIA

Lic. # 668184

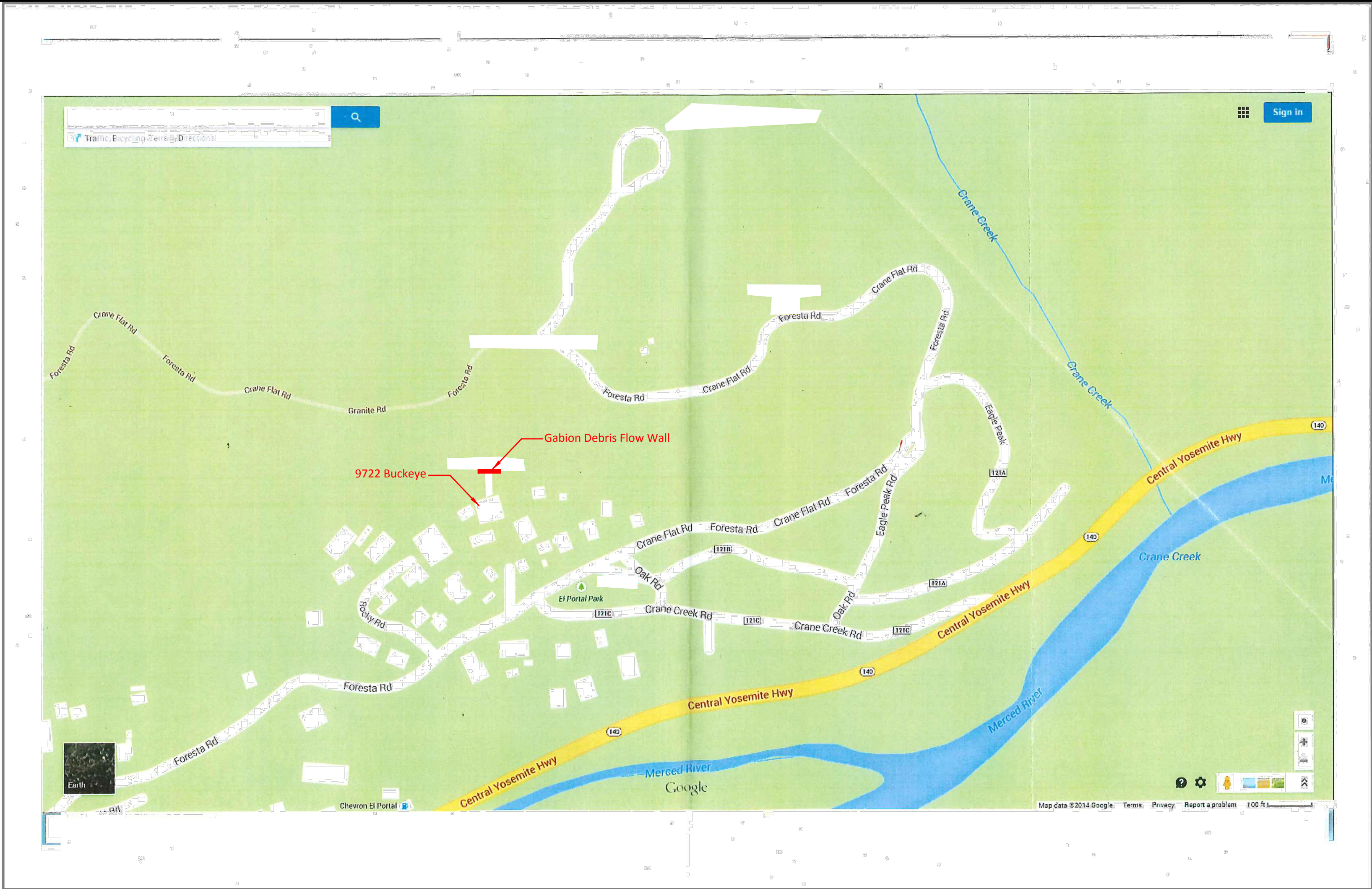
Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150



Date:

PROJECT #
51243

SHEET
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OF 7 SHEETS



9722 Buckeye Road Drainage Swale Winterization Measures

1. Install a gabion basket debris flow wall across the width of the drainage swale above the house at 9722 Buckeye Road. This gabion wall will be 6 feet in width, 27 feet in length and 9 feet in total height. The gabion wall will be buried 1 to 2 feet to provide an exposed height of 7 to 8 feet. The ends of the gabion wall will be embedded at least 2 feet into the side slopes of the swale.
2. Remove all excavated soils from the site. The soil will be taken to a dumpsite for disposal.
3. Fertilize and hand seed the 3 burned out areas of the drainage ravine hillside slopes. The fertilizer and seed mix will conform with the Department of the Interior and National Park Service requirements.
4. Cover the fertilized and hand seeded slope with a biodegradable erosion control matting material. The erosion control matting material will run in the up/down slope direction and be anchored into the hillside per the manufacturers recommendations.
5. Cover the lower 40 feet of the fertilized and hand seeded drainage ravine slope with a biodegradable erosion control matting material. The erosion control matting material will run in the up/down slope direction and be anchored into the hillside per the manufacturers recommendations.
6. Dispose of the construction debris and clean up the work area.

Monitoring, Maintenance and Debris/Sediment Removal

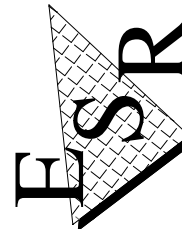
1. Inspect the winterization measures and the gabion basket debris flow wall after the first significant rainfall. The efficacy of the winterization measures and the gabion basket debris flow wall will be assessed and maintained as necessary.
2. Reinspect the winterization measures and gabion basket debris flow wall every four weeks to recheck the condition of the winterization measures and gabion wall and maintain as necessary.
3. Remove and dispose of the debris and sediment that has accumulated behind the gabion basket wall after 3 feet (half height of the wall) of materials have accumulated behind the gabion debris flow wall. The debris and sediment will be taken to a dumpsite for disposal.

9722 BUCKEYE ROAD
DRAINAGE SWALE AND TRAIL
EROSION CONTROL PLAN

EL PORTAL CALIFORNIA
Designed: SOC Checked: SOC Drawn: RAA Date: 06/08/2015

Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150

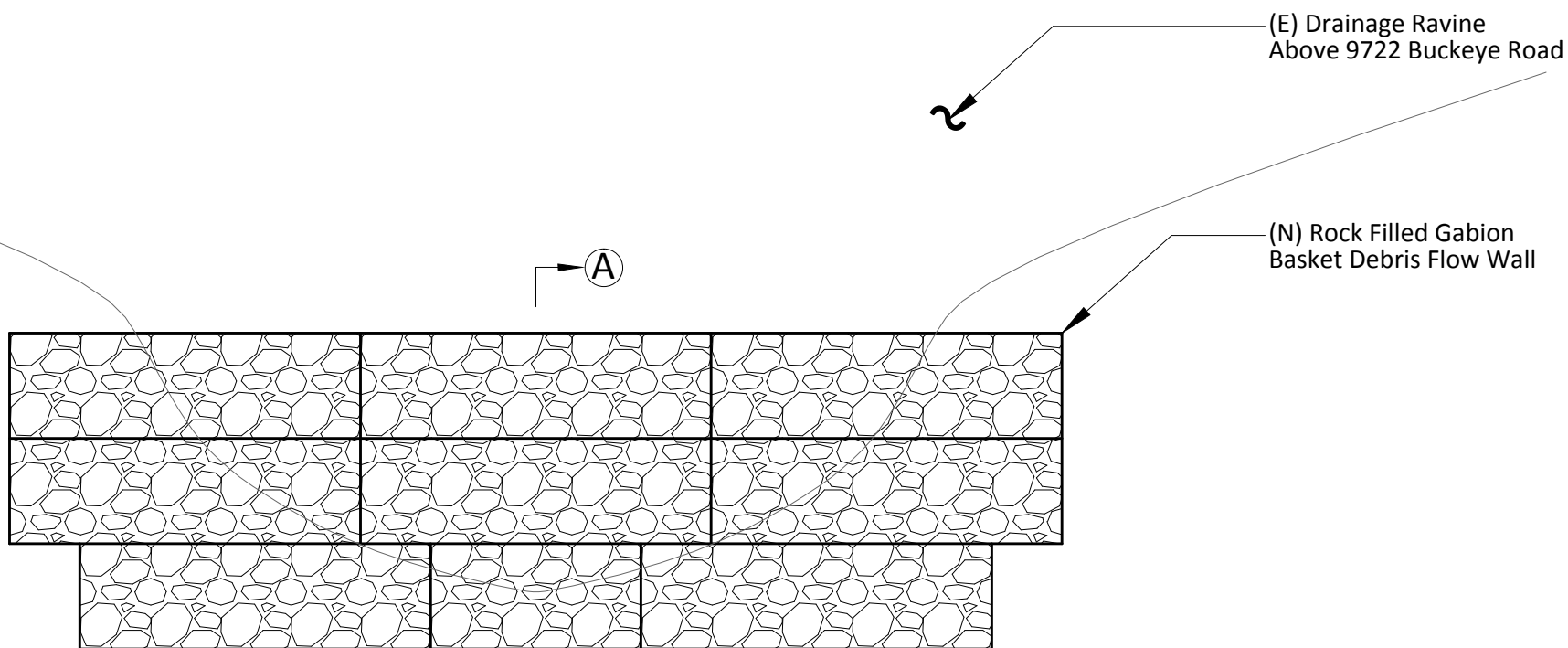
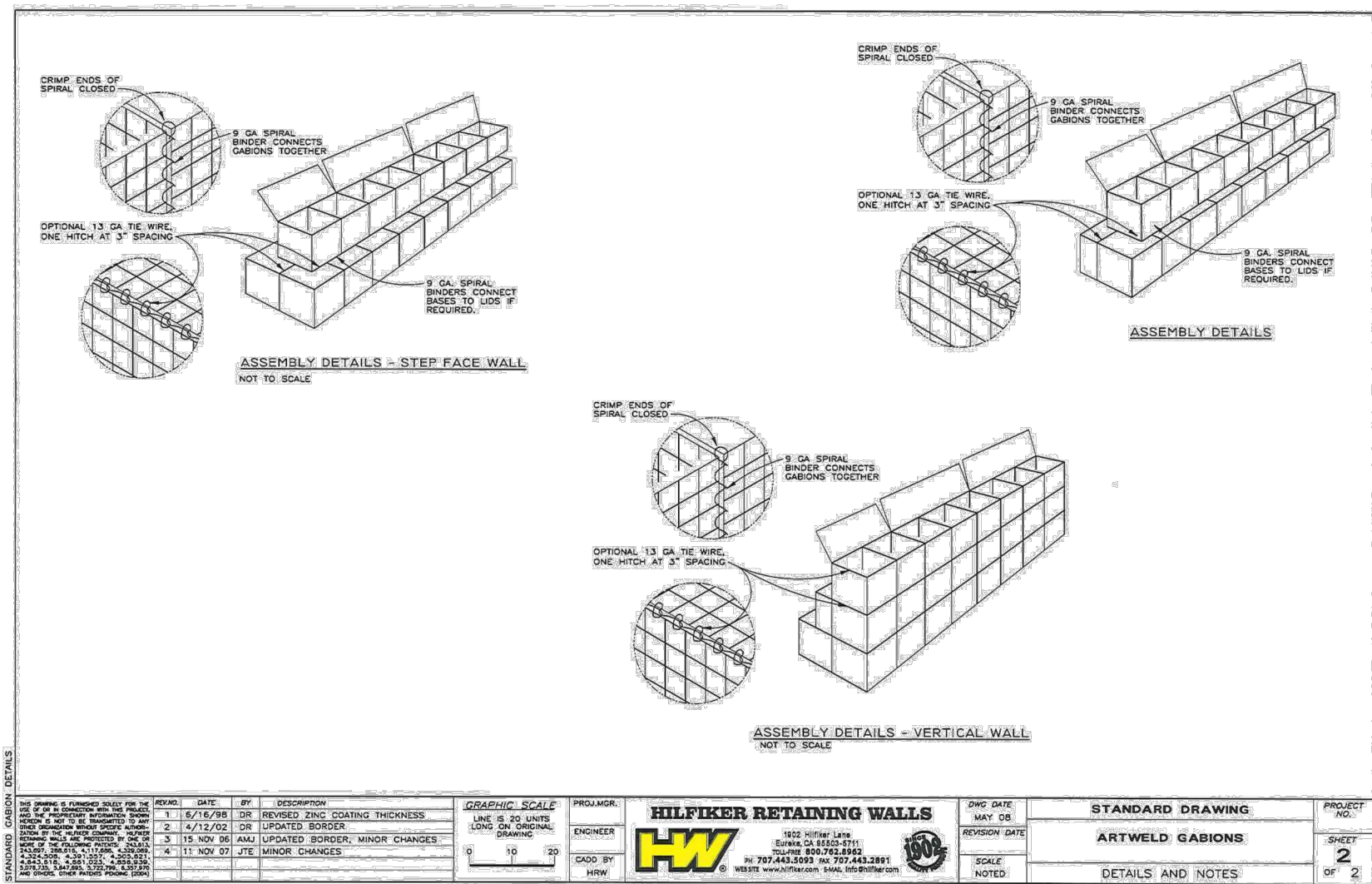
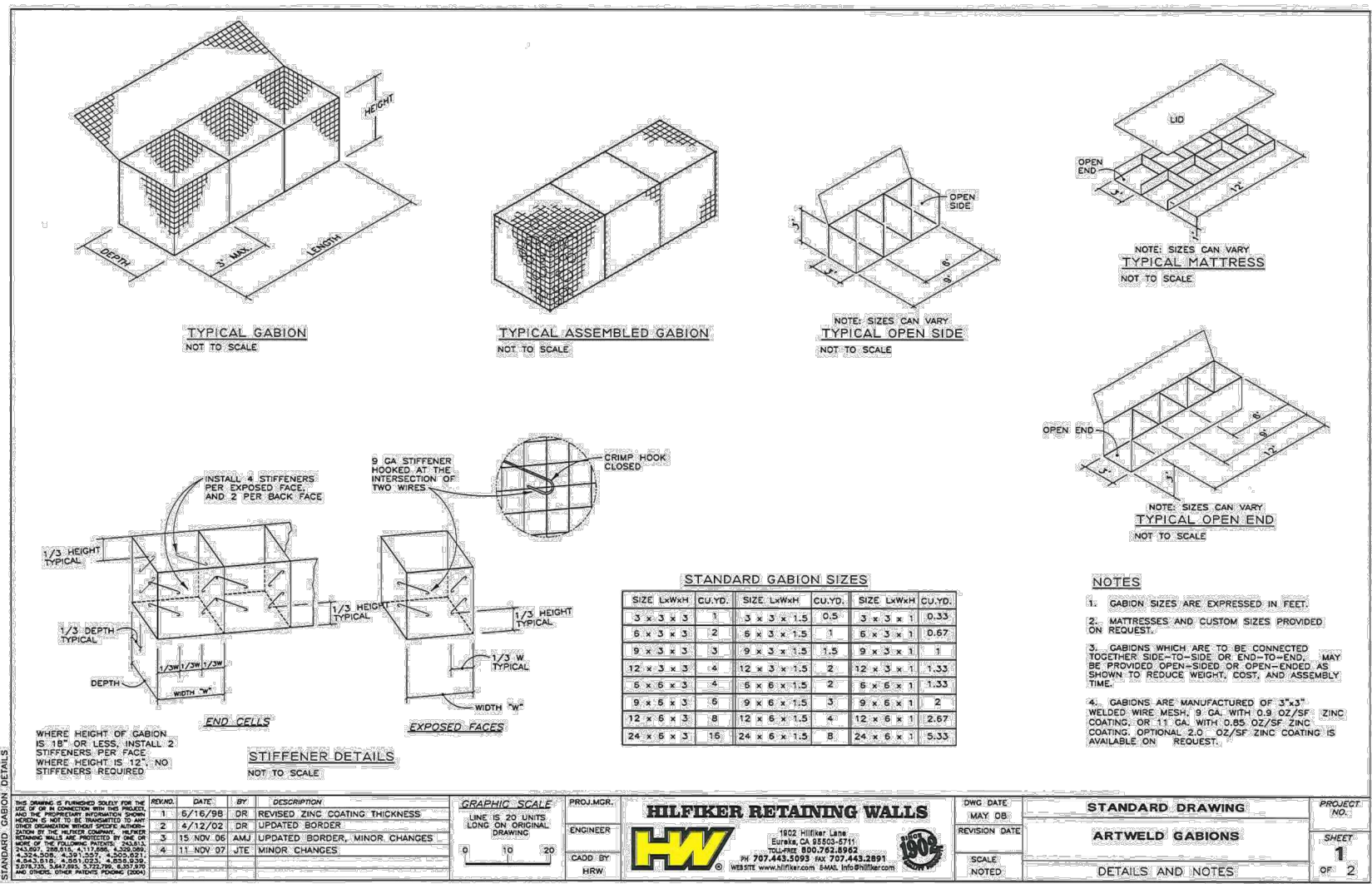
Lic. # 668184



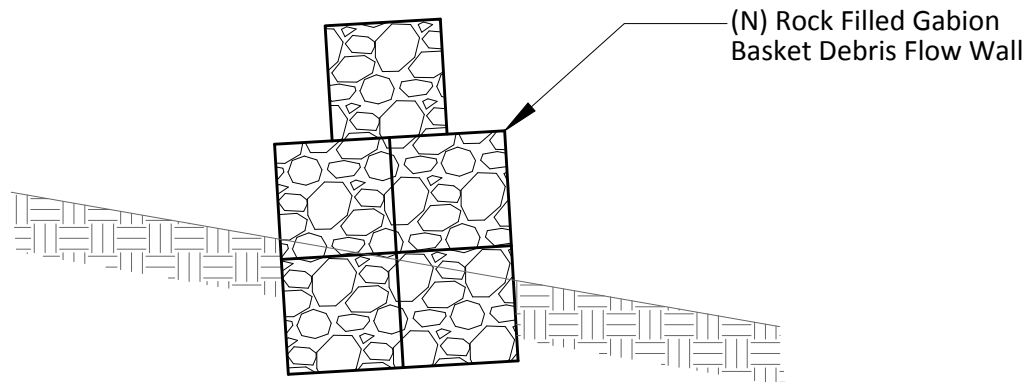
Date:

PROJECT #
51243

SHEET
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OF 7 SHEETS



Elevation View
Scale: 1" = 5'-0"

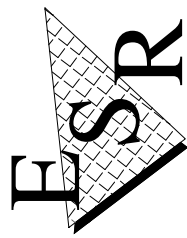


Section A - A
Scale: 1" = 5'-0"

9722 BUCKEYE ROAD
DRAINAGE SWALE AND
EROSION CONTROL PLAN

Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150

Lic. # 668184



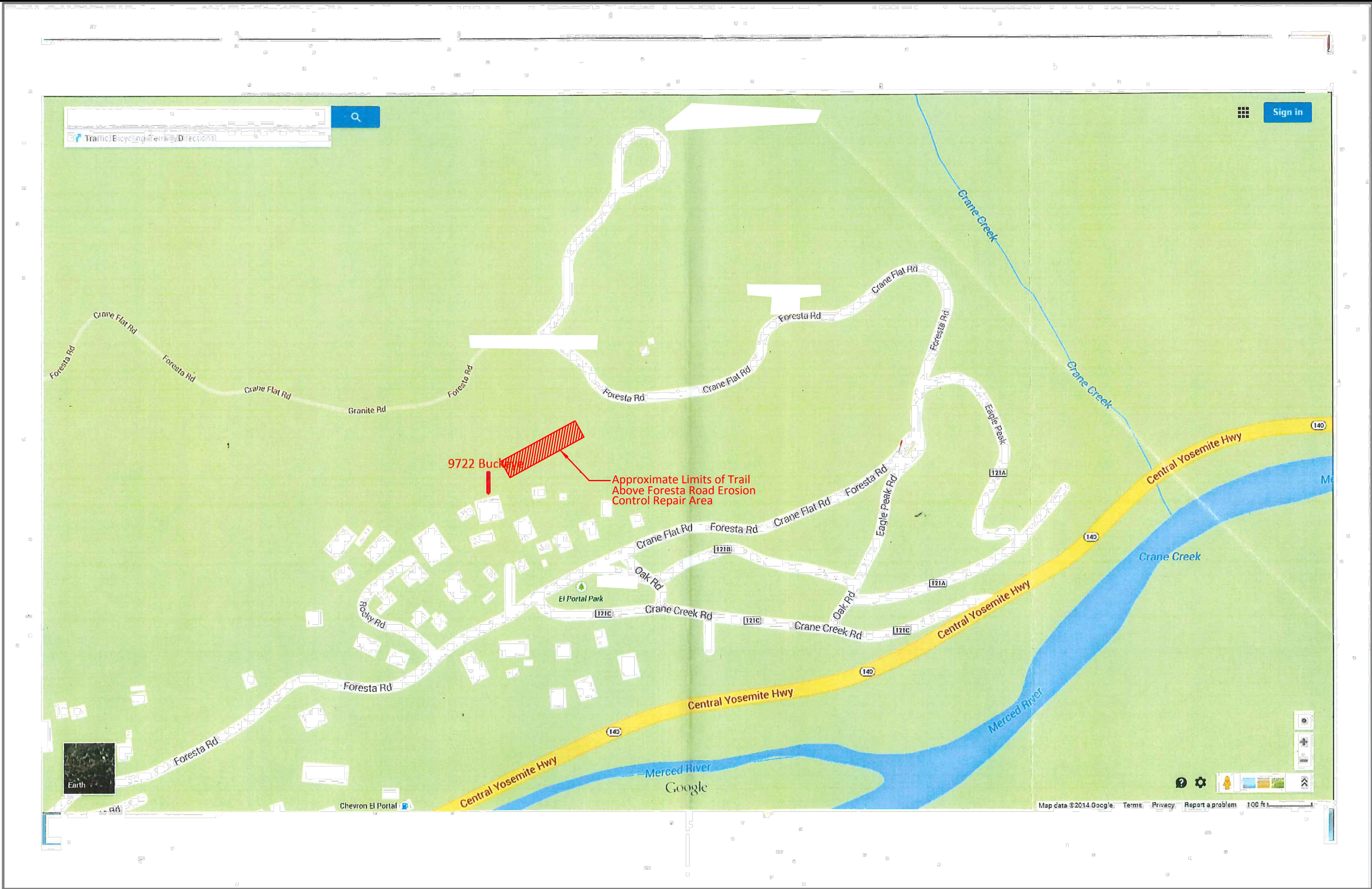
Date:

PROJECT #
51243

SHEET
4

OF 7 SHEETS

DESIGNED: SOC CHECKED: SOC DRAWN: RAA DATE: 06/08/2015
EL PORTAL CALIFORNIA BY DATE REVISIONS

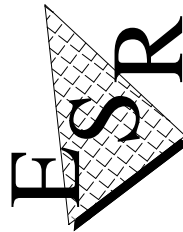


Trail above Foresta Road Erosion Control Measures

1. Fertilize and hand seed the burned out area above and below the pedestrian trail. The fertilizer and seed mix will conform with the Department of the Interior and National Park Service requirements.
2. Cover the fertilized and hand seeded slope with a bio-degradable erosion control matting material. The erosion control matting material will run in the up/down slope direction and be anchored into the hillside per the manufacturers recommendations.
3. Install a line of silt wattles above and below the trail. Install 4 additional lines of silt wattles across the 2 shallow swale areas below the trail.
4. Cover the lower 40 feet of the fertilized and hand seeded drainage ravine slope with a biodegradable erosion control matting material. The erosion control matting material will run in the up/down slope direction and be anchored into the hillside per the manufacturers recommendations.
5. Dispose of the construction debris and clean up the work area.

Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150

Lic. # 668184



Date:

PROJECT #
51243

SHEET
5
OF 7 SHEETS

TRAIL EROSION CONTROL PLAN

EL PORTAL
Designed: SOC
Checked: SOC
Drawn: RAA
Date: 06/08/2015
CALIFORNIA

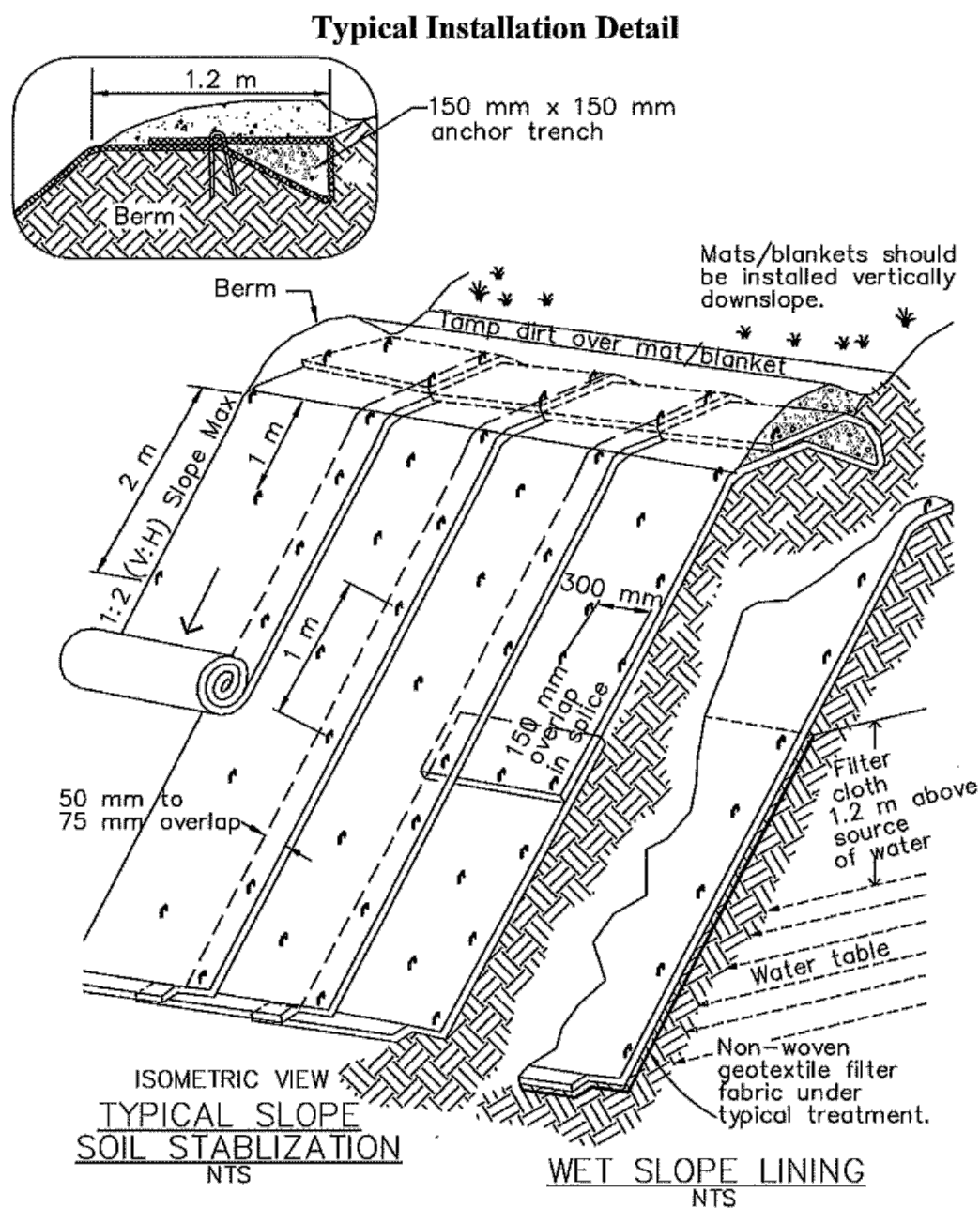
REVISIONS

DATE

BY

Geotextiles, Mats, Plastic Covers
and Erosion Control Blankets

SS-7



NOTES:

1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

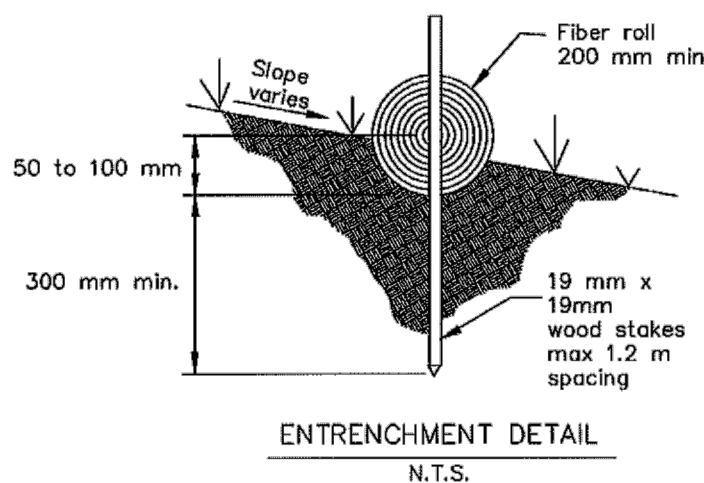
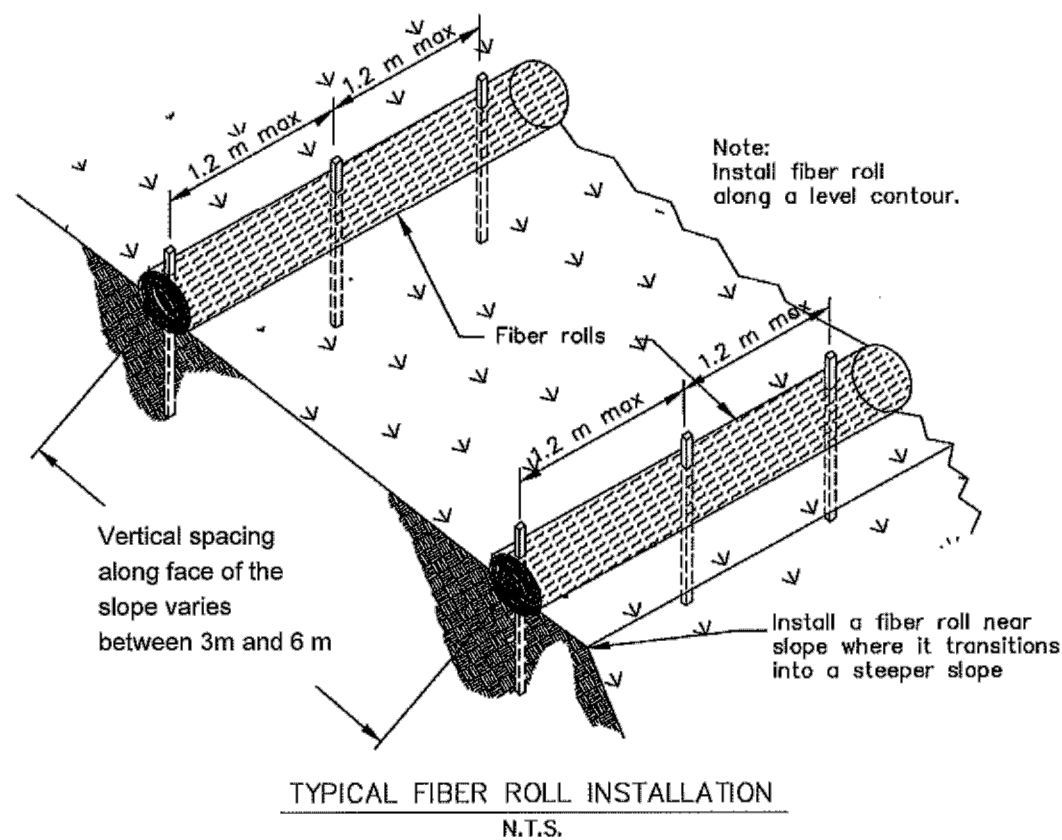


Caltrans Storm Water Quality Handbooks
Construction Site Best Management Practices Manual
March 1, 2003

Section 3
Geotextiles, Mats, Plastic Covers and EC Blankets SS-7
11 of 11

Fiber Rolls

SC-5



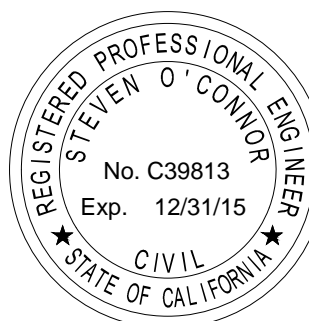
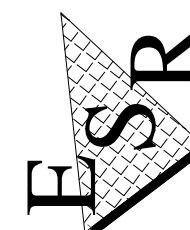
Caltrans Storm Water Quality Handbooks
Construction Site Best Management Practices Manual
March 1, 2003

Section 4
Fiber Rolls SC-5
5 of 6

EROSION CONTROL REPAIR
SECTIONS AND DETAILS

Engineered Soil Repairs, Inc.
1267 Springbrook Road
Walnut Creek, CA 94597
Tel. No. (925) 210-2150

Lic. # 668184



Date:

PROJECT #
51243

SHEET
6

OF 7 SHEETS

EL PORTAL

CALIFORNIA

Date: 06/08/2015

Drawn: RAA

Checked: SOC

Designed: SOC

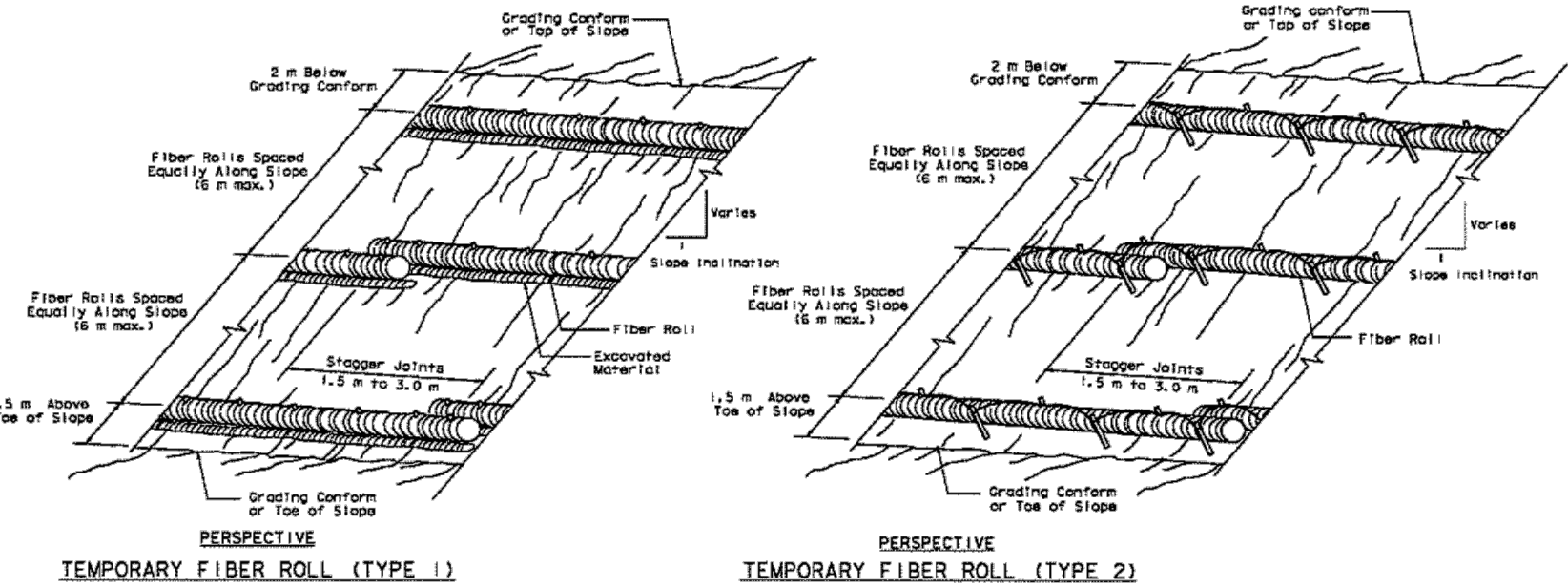
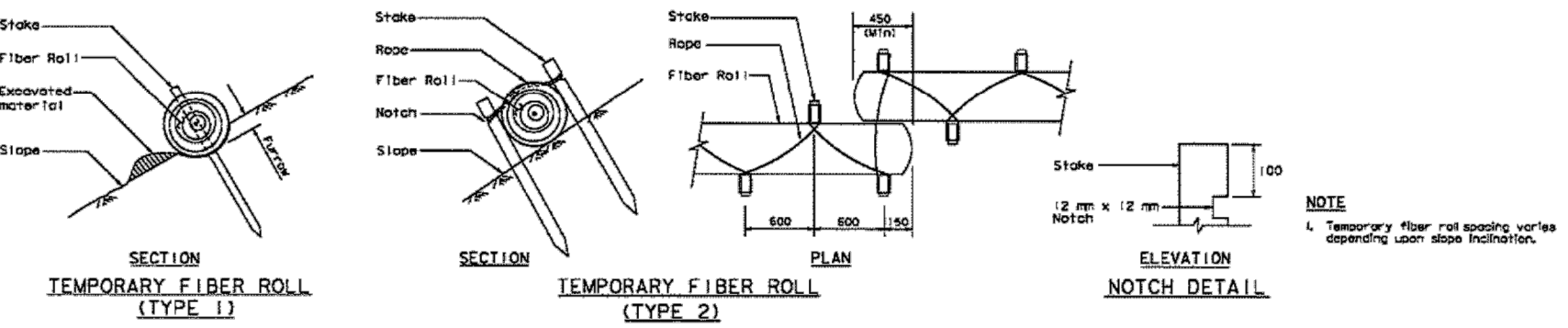
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REVISIONS

Fiber Rolls

SC-5

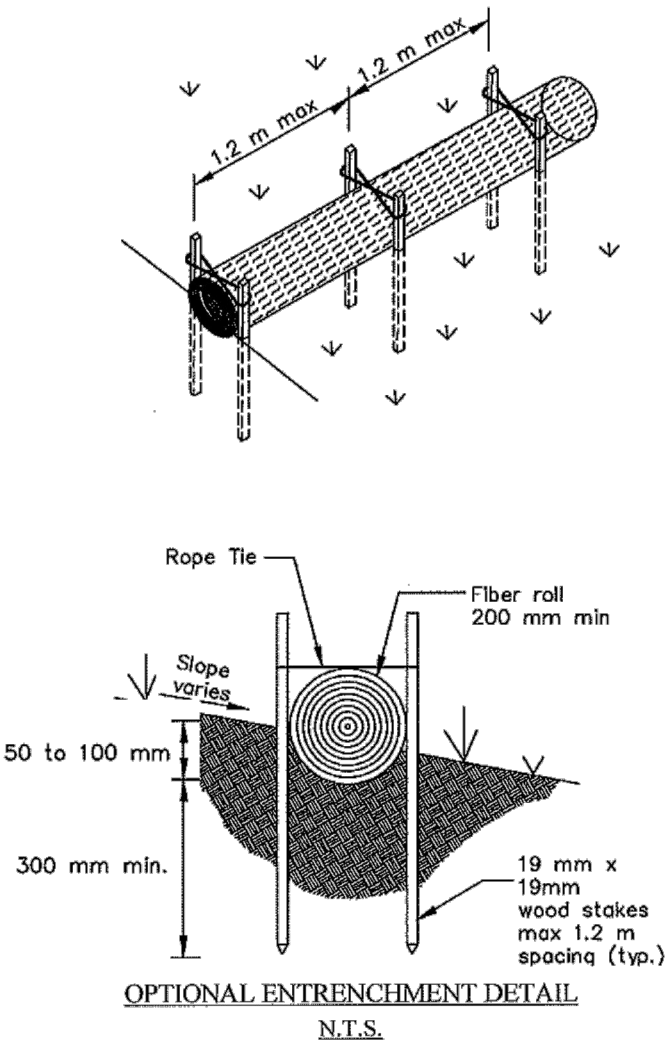


Caltrans Storm Water Quality Handbooks
Construction Site Best Management Practices Manual
March 1, 2003

Section 4
Fiber Rolls SC-5
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Fiber Rolls

SC-5



Caltrans Storm Water Quality Handbooks
Construction Site Best Management Practices Manual
March 1, 2003

Section 4
Fiber Rolls SC-5
6 of 6

EROSION CONTROL REPAIR
SECTION AND DETAILS

CALIFORNIA
EL PORTAL
Designed: SOC
Checked: SOC
Drawn: RAA
Date: 06/08/2015

REVISIONS

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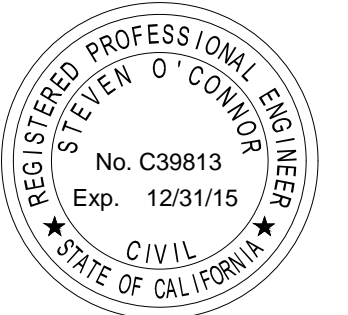
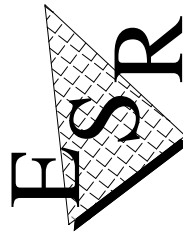
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Lic. # 668184



Date:

PROJECT #
51243

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7

OF 7 SHEETS