

County of Santa Clara

Department of Planning and Development
Planning Office

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STAFF REPORT Zoning Administration September 5, 2019 **Item # 1**

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PLN19-0080 (STANFORD UNIVERSITY)

Architecture & Site Approval and Grading Approval – Stanford University Upper Quarry Restoration

Summary: Architecture & Site Approval and Grading Approval for restoration of a portion of the Upper Quarry drainage tributary, and creation of four (4) new ponds to create California red-legged frog (CRLF) habitat within the Stanford Conservation Plan area. One (1) Coast live oak and nine (9) Red Willow trees are proposed to be removed with tree replacement consisting of thirty-three (33) oaks (Quercus) and ninety-five (95) native trees (128 total trees). Estimated grading quantities associated with the grading approval include 452 cubic yards of cut and 441 cubic yards of fill (893 cubic yards total), with a maximum depth 5 feet.

Owner: Stanford University
Applicant: Steven Bui, Project Manager
Address: West of Old Page Mill Road, Stanford
APN: 142-13-008

Community Plan Designation: Open Space and Field Research, Special Conservation Area
Zoning: OS/F-sr, SCA-sr, SCA
Project Area: 438.8 acres (4.0 acres affected)
Supervisorial District: 5

RECOMMENDED ACTIONS

- A. Accept the Categorical Exception, pursuant to Section 15333(a)-Small Restoration Projects.
- B. Grant Architecture & Site Approval (ASA) and Grading Approval, subject to the Conditions of Approval outlined in Attachment B.

ATTACHMENTS INCLUDED

Attachment A – CEQA Determination – Categorical Exception.
Attachment B – Proposed ASA and Grading Conditions of Approval

PROJECT DESCRIPTION

The proposed project is to restore the Upper Quarry degraded drainage tributary to Matadero Creek, create four (4) ponds for California red-legged frog (CRLF) breeding habitat, and provide ecological benefit to regulated woody riparian habitat as part of the Stanford Habitat Conservation Plan. The project site is located north of Matadero Creek and Old Page Mill Road, at an abandoned quarry site located on Stanford University lands in the Matadero Creek watershed.

Restoration of the Upper Quarry drainage will consist of approximately 200 linear feet of drainage improvements and revegetating approximately 0.4 acres of oak-dominated riparian habitat through active revegetation along the restored drainage. The four (4) proposed ponds will be approximately 400 square feet to 600 square feet with a maximum depth of 3 feet to 5 feet, and be rain/groundwater fed to maintain ponding depth and duration for CRLF breeding. Restoration of the degraded Upper Quarry drainage consists of approximately 200 lineal feet of drainage improvements and 0.4 acres of wetland/riparian habitat. Grading for the ponds will require approximately 183 cubic yards of cut and 18 cubic yards of fill (201 cubic yards total).

Access to the project site will be provided from Old Page Mill Road, on an existing rural road. The proposed project includes construction of a temporary access road from the existing rural road, downslope to the Upper Quarry drainage area. An approximately 11,754 square foot spoils area will be located along the temporary access road. A 4,084 square foot staging area and temporary water storage tank will be located south of the existing rural road and a debris clean up area will be located at the upstream edge of the Upper Quarry drainage. The temporary access road, debris clean up area, staging area, and spoils area will be restored as part of the project.

One (1) Oak (*Quercus*) tree and nine (9) Red Willow (*Salix laevigata*) trees, which are 12 inches or greater in diameter are proposed to be removed. Thirty-three (33) Oak and ninety-five (95) non-Oak native trees would be planted. All remaining ordinance size trees would be protected throughout the project.

In addition to the approximately 201 cubic yards of grading proposed to create ponds in the degraded drainage, an additional 270 cubic yards of cut and 422 cubic yards of fill are required to provide access, retention barrier, and restore the debris cleanup and spoils areas. In total, approximately 452 cubic yards of cut and 441 cubic yards of fill (893 cubic yards total) are proposed, with a maximum depth of 5-feet.

REASONS FOR RECOMMENDATION

A. Environmental Review and Determination (CEQA)

The proposed project is in conformance with both the 2000 Stanford Community Plan (“SCP”) and General Use Permit (“GUP”) and has no new effects beyond those analyzed in the Program EIR, certified by the Board of Supervisors in December 2000. The proposed project is for a small habitat restoration of a degraded riparian tributary to Matadero Creek and encompasses less than five (5) acres. The project will not result in any significant adverse

impact on endangered, rare or threatened species, and no hazardous materials will be used. Therefore, a Categorical Exemption, pursuant to Section 15333, Class 33, Small Habitat Restoration Projects, is adequate for this project.

B. Project/Proposal

1. Stanford Community Plan and General Use Permit (GUP): The project conforms to applicable Community Plan goals, strategies and policies. Environmental restoration like the proposed Upper Quarry restoration are permitted uses within the Open Space and Field Research (SCP-LU 26f) and Special Conservation Areas (SCP-LU 31) land use designations, and as conditioned, will satisfy the requirements of the GUP. The 2000 Community Plan and GUP govern development projects on the Stanford campus. This project conforms to the criteria set forth by the GUP and provisions identified within the Community Plan, and subject to compliance with the preliminary conditions outlined in Attachment B.
2. Stanford Habitat Conservation Plan (HCP): The project conforms to applicable Habitat Conservation Plan biological goals related to the California red-legged frog for increased population and long-term persistence at Stanford (Section 1.5.2, Biological Goal #4). In addition, restoration of Upper Quarry Creek was anticipated in the HCP as a habitat enhancement project for CRLF (Section 4.6.1). Therefore, this project is consistent with the intent and conditions of the Stanford Habitat Conservation Plan.

3. ASA approval:

ASA approval standards, applicable regulations, and findings: The project substantially conforms to the requirements and guidelines in the SCP and GUP. These requirements meet all of the ASA Guidelines through the ASA approval process and as approved via a public hearing at a Zoning Administration hearing.

C. ASA Findings:

Pursuant to §5.40.040 of the County Zoning Ordinance, the Zoning Administrator may grant an Architecture & Site Approval contingent upon specific findings. In the following discussion, the scope of review findings are listed in **bold**, and an explanation of how the project meets the required standard is in plain text below.

A. Adequate traffic safety, on-site circulation, parking and loading areas, and insignificant effect of the development on traffic movement in the area;

Long-term traffic

The project is for restoration of a portion of the Upper Quarry drainage with creation of four (4) ponds to create breeding habitat for California red-legged frog within a 439-acre parcel in the Stanford University Open Space and Field Research land use district and Habitat Conservation Plan areas. Access to the project site will be provided from Old Page Mill Road. The project will not create any new permanent traffic impacts in the area. As such, the proposed restoration to the Upper Quarry drainage and creation of California red-legged frog ponds will not result in any significant change in the amount of traffic and does not generate any new trips from a traffic impact perspective. The traffic would be consistent with that analyzed in the prior 2000 GUP EIR.

Short-term construction traffic

The project will require up to six (6) vehicles for monitoring/project management personnel on site per day, as well as construction equipment consisting of one (1) low-ground pressure evacuator and one (1) bobcat truck loader. The vehicles and construction equipment will be parked in the staging area when not in use. The proposed hours of construction will be 7:00 am to 5:30 pm.

Due to the low number of vehicles and construction equipment, the project will not result in significant short-term impacts related to construction activities. However, Conditions of Approval have been added to this project to minimize any potential short-term impacts. The proposed Conditions of Approval would require all construction trucks to use approved truck routes for transporting construction equipment to and from the site, and construction material deliveries would be restricted to non-peak hours, as defined the 2000 GUP EIR. Compliance with the Conditions of Approval (Attachment B) ensures that the short-term construction traffic associated with the project will not have a significant effect on traffic movement in the area.

Parking

Construction related vehicles consist of six (6) vehicles, a low-pressure excavator and bobcat track loader, and will be parked in the staging area. The project has no new proposed permanent parking on the project site and the proposed use would not trigger the need for additional parking. Hence, there would be no permanent impacts on parking.

B. Appearance of proposed site development and structures, including signs will not be detrimental to the character of the surrounding neighborhood or zoning district;

Restoration of the degraded Upper Quarry drainage tributary and creation of four (4) CRLF breeding habitat ponds will improve the existing conditions of an area previously impacted by quarry operations. Drainage of the degraded tributary will be improved, and the site restored with native woody riparian vegetation. Therefore, the restoration will not be detrimental to the appearance of the site or character of the surrounding neighborhood or Open Space and Field Research zoning.

C. Appearance and continued maintenance of proposed landscaping will not be detrimental to the character of the surrounding neighborhood or zoning district;

Restoration of the Upper Quarry drainage and creation of CRLF breeding and dispersal habitat will improve existing conditions to the drainage tributary and will restore a continuous riparian corridor and habitat in the Upper Quarry drainage. Restoration will require vegetation maintenance and monitoring for a 5-year period to ensure the project meets final success criteria. In addition, one (1) Oak (*Quercus*) tree and nine (9)-red willow (*Salix laevigata*) trees that are 12 inches or greater (diameter) in size are proposed to be removed with replacement consisting of thirty-three (33) oak and ninety-five (95) non-oak native trees. All remaining trees with a 12 inch or greater diameter surrounding the project site are considered protected. As such, restoration of the Upper Quarry drainage tributary will improve the appearance and continuous

maintenance will not be detrimental to the character of the surrounding neighborhood or Open Space and Field Research zoning district.

D. No significant, unmitigated adverse public health, safety and environmental effects of proposed development;

Restoration of the Upper Quarry will improve drainage in the Matadero Creek watershed, restore approximately 0.4 acres of oak dominated riparian habitat, and provide breeding habitat for California red-legged frog. The project would not result in any significant environmental impacts as it relates to parking, traffic, construction noise, and air quality. The project has been reviewed with respect to all applicable regulations relating to public health and safety. The Statement of Categorical Exemption for the restoration project determined that the project would not result in any significant environmental impacts (See Attachment A).

E. No adverse effect of the development on flood control, storm drainage, and surface water drainage;

The project will restore a degraded tributary to Matadero Creek and, therefore, improve flood control, storm drainage, and surface water drainage of the Upper Quarry drainage. The project has been reviewed by County Staff with respect to all applicable regulations relating to drainage and flood control. The project has been conditioned (Attachment B) to comply with the C3 requirements of the NPDES permit.

F. Adequate existing and proposed fire protection improvements to serve the development;

The Fire Marshal's Office has reviewed and conditioned the project to ensure existing and proposed fire protection access and water supply are in conformance with applicable regulations.

G. No significant increase in noise levels;

Due to the nature of the proposed restoration project of a degraded drainage tributary, creation of ponds for California red-legged frog breeding habitat, and the location within the Stanford Open Space and Field Research area, the project is not anticipated to cause any significant increases in noise levels to surrounding neighborhoods located northeast and south of the project site. The project may create short-term/temporary construction noise impacts due to use of low-ground pressure equipment, excavator and bobcat track loader. Construction activity access will be provided by a temporary access path. However, the project has been conditioned to require submittal of a Traffic and Construction Management Plan. Furthermore, construction activities shall be limited to the hours of 7AM and 7PM, Monday through Saturday, with no construction activity occurring after 7PM, or on Sundays, consistent with the County Noise Ordinance.

H. Conformance with zoning standards, unless such standards are expressly eligible for modification by the Zoning Administrator as specified in the Zoning Ordinance.

The property is zoned OSF-sr, which is the “Open Space and Field Research” district that provides for field research uses subject to discretionary land use approvals. The standards applicable to development within this zoning district are consistent with the purpose of the Open Space and Field Research zoning district in that allowable uses include environmental restoration, as described in Chapter 2.50.010 of the County Zoning Ordinance.

I. Conformance with the general plan and any applicable area or specific plan, or, where applicable, city general plan conformance for property located within a city’s urban service area; and

The property is designated in the County of Santa Clara General Plan as Major Educational and Institutional Uses and Stanford University Community Plan as Open Space and Field Research (OSF). The Community Plan supports efforts to enhance habitats and populations of protected native species including wetland creation efforts (SCP-RC 10). The proposed project is part of the Stanford Habitat Conservation Plan and restoration of Upper Quarry Creek was anticipated in the HCP as a habitat enhancement project for CRLF (Section 4.6.1). Therefore, the project is in conformance with the County General Plan and applicable plans specific to Stanford lands.

J. Substantial conformance with the adopted “Guidelines for Architecture and Site Approval” and other applicable guidelines adopted by the County.

The Stanford GUP requires Architecture & Site Approval review for new construction and reconstruction projects, including projects such as the subject restoration project. It should be noted that issues addressed generally in the ASA Guidelines are addressed in more detail within the Stanford Community Plan and GUP. As such, conformance with the provisions listed in the documents noted above ensures compliance with the ASA Guidelines.

Grading Findings:

Pursuant to Section C12-433, all Grading Approvals are subject to specific findings. In the following discussion, the scope of review findings are listed in **bold**, and an explanation of how the project meets the required standard is in plain text below.

A. The amount, design, location, and the nature of any proposed grading is necessary to establish or maintain a use presently permitted by law on the property.

Estimated grading quantities associated with the Upper Quarry restoration and creation of ponds consist of 452 cubic yards of cut and 441 cubic yards of fill (891 cubic yards total), with a maximum depth 5 feet. This grading is primarily used to cut soils to create ponds and fill areas along the drainage tributary to restore riparian wetlands and ensure proper drainage on the site as required by the Stormwater Management Plan. The amount, design, location and the nature of proposed grading is necessary to restore a degraded tributary and create California red-legged frog breeding habitat, which are permissible uses in the OSF-sr zoning district.

B. The grading will not endanger public and/or private property, endanger public health and safety, will not result in excessive deposition of debris or soil in the watercourse.

The applicant will be required to obtain a Grading Permit through the County's Land Development Engineering, which will ensure that that the project adequately drains to an approved location. All excavated materials will be used to restore a degraded tributary riparian habitat and create ponds for California red-legged frog. No excessive material will be deposited onsite. Construction activities will be monitored by a qualified biologist and conform with the Stanford Habitat Conservation Plan Avoidance and Mitigation Measures that will avoid impacts to any existing spring or watercourse.

C. Grading will minimize impacts to the natural landscape, scenic, biological and aquatic resources, and minimize erosion impacts.

The proposed grading has been designed to minimize impacts to existing landscaping and will restore a degraded tributary to include breeding habitat for California red-legged frog. The project will improve the biological and aquatic resource and not result in any scenic resource impacts. One (1) oak (*Quercus*) tree and nine (9) red willow (*Salix laevigata*) trees that are 12-inches or greater (diameter) in size will be removed with replacement consisting of thirty-three (33) oak and ninety-five (95) non-oak native trees. All remaining trees with a 12-inch or greater diameter surrounding the project site are considered protected by County Ordinance and will be protected per the County's Tree Protection Guidelines throughout construction. Adequate mitigation measures have been identified and are required in the ASA and Grading Conditions of Approval (Attachment B).

D. For grading associated with a new building or development site, the subject site shall be one that minimizes grading in comparison with other available development sites, taking into consideration other development constraints and regulations applicable to the project.

The grading is not associated with a new building or development site. As such, this finding is not applicable.

E. Grading and associated improvements will conform with the natural terrain and existing topography of the site as much as possible and should not create a significant visual scar.

The restoration of a degraded tributary, establishment of riparian wetland vegetation, and creation of ponds is designed to restore breeding habitat for California red-legged frog (CRLF) and provide dispersal habitat for CRLF. The proposed grading is designed to follow the existing topography of the Upper Quarry drainage tributary to the maximum extent possible, to minimize grading and visual impacts.

F. Grading conforms with any applicable general plan or specific plan policies; and

The proposed grading for restoration of a degraded tributary and creation of California red-legged frog habitat is in conformance with specific findings and policies identified in the Stanford Community Plan and County General Plan. The proposed grading will not create permanent access to the restoration area, thereby protecting a sensitive habitat area, per Policy SCP-OS5, and is necessary to enhance habitats and populations of protected native species through wetland creation efforts and oak reforestation, per Policy SCP-RC 10. In addition, the proposed grading will require approximately 891 cubic yards of grading to restore the degraded tributary and create 4 breeding ponds for California red-legged frog. Per the County General Plan Policy R-GD 22, the amount, design, and nature of the proposed grading is minimal and appropriate to restore the degraded tributary and creation of ponds. The proposed grading is compatible with the surrounding Open Space and Field Research uses in the area.

G. Grading substantially conforms with the adopted "*Guidelines for Grading and Hillside Development*" and other applicable guidelines adopted by the County.

The proposed grading to restore the degraded tributary and create ponds minimizes the amount of grading to establish the use for California red-legged frog habitat and follows natural contours to minimize impacts to the natural topography. Therefore, the restoration project is in conformance with the adopted "Guidelines for Grading and Hillside Development.

BACKGROUND

On December 12, 2000, the County of Santa Clara approved the 2000 Stanford University Community Plan and General Use Permit (GUP), governing development projects on the Stanford campus. The GUP provides Conditions of Approval for projects that are located in a riparian, disturbed riparian, and oak woodland areas.

On April 19, 2019, an application for Architecture & Site Approval and Grading Approval was submitted for the Stanford University Upper Quarry California red-legged frog habitat restoration and monitoring project. Due to unforeseen staffing issues, Stanford granted a 30-day time extension for Permit Streamlining Act purposes to the Planning Office for review the application. The application was initially deemed incomplete on June 19, 2019. After the applicant submitted all necessary information to process the application, the application was deemed complete on July 30, 2019. A public notice was mailed to all property owners within a 300-foot radius on August 23, 2019 and was also published in the Post Records on August 26, 2019. Additionally, a copy of the public notice was provided to the Stanford Interested Parties list on file with the County Planning Division.

STAFF REPORT REVIEW

Prepared by: Kim Rook, Senior Planner 
Reviewed by: Leza Mikhail, Principal Planner & Zoning Administrator 

**ATTACHMENT B
DRAFT CONDITIONS OF APPROVAL
FOR
ARCHITECTURE & SITE APPROVAL AND GRADING APPROVAL**

Date: September 5, 2019

Owner/Applicant: Stanford University

Location: Old Page Mill Road (APN: 142-13-008)

File Number: PLN19-0080

CEQA: Categorical Exemption, Section 15333(a)-Small Restoration Projects

Project Description: Architecture & Site Approval and Grading Approval for restoration of a portion of the Upper Quarry drainage tributary and creation of four (4) new ponds to create California red-legged frog (CRLF) habitat within the Stanford Conservation Plan area. The ponds will each consist of approximately 400-600 square feet and be groundwater fed to maintain ponding depth and duration for CRLF breeding habitat. Restoration of the degraded Upper Quarry creek consists of approximately 200 lineal feet of drainage improvements and 0.4 acres of wetland/riparian habitat. One (1) Coast live oak and nine (9) red willow trees are proposed to be removed with tree replacement consisting of thirty-three (33) oaks (*Quercus*) and ninety-five (95) native trees (128 total trees). Estimated grading quantities associated with the grading approval are 452 cubic yards of cut and 441 cubic yards of fill (891 cubic yards total), with a maximum depth 5 feet.

If you have any question regarding the following preliminary conditions of approval, call the person whose name is listed as the contact for that agency. He or she represents a specialty or office and can provide details about the conditions of approval.

Agency	Name	Phone	E-mail
Planning	Kim Rook	(408) 299-5790	kim.rook@pln.sccgov.org
Land Development Engineering	Ed Duazo	(408) 299-5733	ed.duazo@pln.sccgov.org
Geology	Jim Baker	(408) 299-5774	jim.baker@pln.sccgov.org

STANDARD CONDITIONS OF APPROVAL

Planning

1. Development and maintenance of the project site shall take place in accordance with approved plans, received by the Planning Department on July 2, 2019. This project allows restoration of the Upper Quarry degraded drainage tributary with drainage improvements, creation of four (4) ponds, revegetation of riparian habitat, and associated site work that includes a temporary access road, debris cleanup area, and staging area. Plans submitted into Plan Check shall be in substantial conformance with the approved plans. Changes to the

design, quantity, location or other modifications to the approved plans may result in a modification to the approved ASA and Grading Approval.

3. The project shall comply with the Stanford University 2000 General Use Permit Conditions of Approval, approved Stanford University 2000 GUP Mitigation Monitoring and Reporting Program, and Stanford Habitat Conservation Plan (revised March 2013).
4. Stanford shall be responsible for paying all reasonable costs associated with work by the County Planning Department, or with work conducted under the supervision of the County Planning Office, in conjunction with, or in any way related to the conditions of approval identified in this project. This includes but is not limited to costs for staff time, consultant fees, and direct costs associated with report production and distribution.
5. In the event that previously unidentified historic or prehistoric archaeological resources are discovered during construction, the contractor shall cease work in the immediate area and the County Planning Office and Campus Archaeologist shall be contacted. An independent qualified archaeologist retained by the County at the expense of Stanford shall assess the significance of the find and make mitigation recommendations.
6. If archeological resources are discovered as described above, construction monitoring shall be conducted at any time ground-disturbing activities (greater than 12 inches in depth) are taking place in the immediate vicinity of the identified resources. If monitoring does not produce evidence of significant cultural resources within the project area, further mitigation shall be limited to construction monitoring, unless additional testing or other specific mitigation measures are determined by a qualified archaeologist to be necessary to ensure avoidance of damage to significant archaeological resources. A technical report of findings describing the results of all monitoring shall be prepared in accordance with professional standards. The archaeological monitoring program shall be implemented by an individual meeting the Secretary of Interior Professional Qualifications Standards in Archaeology (36 CFR 61); individual field monitors shall be qualified in the recognition of cultural resources and possess sufficient academic and field training as required to conduct the work effectively and without undue delay.
7. In the event that human skeletal remains are encountered, the applicant is required by County Ordinance No. B6-18 to immediately notify the County Coroner. Upon determination by the County Coroner that the remains are Native American, the coroner shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of section 7050.5 of the Health and Safety Code and the County Coordinator of Indian affairs. No further disturbance of the site may be made except as authorized by the County Coordinator of Indian Affairs in accordance with the provisions of state law and this chapter. If artifacts are found on the site a qualified archaeologist shall be contacted along with the County Planning Office. No further disturbance of the artifacts may be made except as authorized by the County Planning Office.

8. In the event that fossilized shell or bone is uncovered during any earth-disturbing operation, contractors shall stop work in the immediate area of the find and notify the Campus Archaeologist and the County Building Inspector assigned to the project. The Campus Archaeologist shall visit the site and make recommendations for treatment of the find (including but not limited to consultation with a paleontologist and excavation, if warranted), which would be sent to the County Building Inspection Office and the County Planning Office. If a fossil find is confirmed, it will be recorded with the United States Geological Survey and curated in an appropriate repository.

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO GRADING PERMIT ISSUANCE

Planning

9. Provide copies of permits, or evidence permits are not required, from the U.S. Army Corps of Engineers, San Francisco Bay Regional Water Quality Control Board, U. S. Fish and Wildlife, and California State Department of Fish and Wildlife.
10. Place a construction note on the site plan that states the following: “The Bay Area Air Quality Management District (BAAQMD) has identified a set of feasible PM10 control measures for all construction activities. These control measures, as previously required in the Program EIR, shall be adhered to during all construction activities.
 - a. Water all active construction areas at least twice daily;
 - b. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard;
 - c. Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites;
 - d. Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites;
 - e. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets;
 - f. Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more);
 - g. Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand,);
 - h. Limit traffic speeds on unpaved roads to 15 mph;
 - i. Install fiber rolls, sandbags or other erosion control measures to prevent silt runoff to public roadways;
 - j. Replant vegetation in disturbed areas as quickly as possible;
 - k. Install wheel washers for all existing trucks, or wash off the tires of tracks of all trucks and equipment leaving the site; and
 - l. Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph.”

11. Place a construction note on the site plan that states the following: *“All construction contractors shall properly maintain the equipment and where feasible, use ‘clean fuel’ equipment and emissions control technology (e.g., CNG fired engines, catalytic converters, particulate traps, etc.). Measures to reduce diesel emission would be considered feasible when they are capable of being used on equipment without interfering substantially with equipment performance.”*
12. Submit site plan that shows all pedestrian and bicycle corridors along with public transit stops adjacent to the project site and indicate how bicycle, pedestrian, and public transit access and circulation will be maintained during construction. Bicycle and pedestrian access onto the campus and around the site (outside construction areas) shall not be substantially limited by construction activities associated the project. In addition, access to public transit shall not be limited, which could include the relocation or removal of adjacent bus stops.
13. Final grading permit plans shall include the following construction notes:
 - a. Construction materials delivered from off campus shall not be delivered between the hours of 7:00 AM to 9:00 AM and 4:00 to 6:00 PM on weekdays.
 - b. Trucks exporting/importing dirt and building materials for the project shall use approved truck routes shown in the 2000 GUP, as designated by the cities of Palo Alto and Menlo Park.
14. Submit a Construction Management and Logistics Plan for approval by Planning and Land Development Engineering, prior to issuance of any grading permits, that clearly identifies the elements listed below:
 - a. Provide the location, anticipated quantities and time frame for construction staging and earthwork stockpiling associated with this project. Said location is required to be approved by Planning and Land Development Engineering.
 - b. Provide off-street construction related parking. Identify off-street parking location(s) on site plan for all construction related vehicles (employee parking and construction equipment) throughout the construction period. If adequate parking cannot be provided on the construction sites, identify on the site plan or vicinity map the satellite parking location(s) that will be used.
 - c. Prohibit impacts to accessing public transit access and movement of public transit vehicles. Identify on site plan all temporary or permanent access limitations, re-routes, lane closures, or limits to public transit movements or place a note on the site plan stating *“No temporary or permanent access limitations, re-routes, lane closures, or limits to public transit movement are permitted.”*
 - d. Prohibit roadway construction activities from reducing roadway capacity during Stanford major athletic and special events. Stanford shall not limit roadway capacity during special events or during major athletic events, which attract a large number of visitors to the campus.
 - e. Provide written notification to Stanford Police and Palo Alto Fire Department regarding construction location and construction dates. Include in the notices alternate evacuation and emergency route designations to maintain response times during construction periods, if applicable. Provide one copy of the notices to the County.

- f. Provide written notification to all contractors and subcontractors regarding appropriate routes and weight limits and speed limits for local roads used to access construction sites. Provide one copy of the notices to the County Planning Office.
 - g. Provide notification to the Cities of Palo Alto of the construction schedule and include a copy of the Santa Clara County approved Construction and Traffic Management Plan. Provide one copy of the notices to the County Planning Office.
15. The following tree removal/protection requirements shall apply:
- a. One (1) oak (*Quercus*) and nine (9) red willow (*Salix*) trees over 12-inches in diameter are authorized for removal with this project.
 - b. If any trees are proposed to be removed after the approval of the ASA, further review by the Planning Office may be required to assess the visual impact of the tree removal to the project and surrounding area.
 - c. Final grading plans shall show the size and species of all trees over 12-inches in diameter (at 4.5 feet above grade) within the proposed work area for the project and clearly label all trees proposed for removal. This shall include all trees where construction will occur within the dripline of the tree.
 - d. An I.S.A. certified arborist shall review final grading plans. The objective shall be to ensure all trees adjacent to the improvements will not be damaged or removed.
 - e. A certified arborist shall monitor the construction and provide written recommendations to preserve any potentially impacted trees associated with the proposed improvements. Submit a plan-review letter prior to the issuance of the final grading permit evaluating consistency of final grading plans with these mitigations and a construction-observation letter prior to the issuance of final occupancy summarizing implementation of these mitigation measures.
 - i. Provide two (2) copies of an arborist report that recommends effective tree protection measures for the site's existing trees that have not been slated for removal. Protection measures must be in place prior to construction activity commencing.
16. Adequate signs shall be posted along the street frontages or in front of the project site, no smaller than 1,296 square inches in size, containing the name, telephone number, and email address of the appropriate Stanford person the public may contact to register a complaint about construction noise. Additionally, Stanford shall create an outreach and information portal to facilitate information and alerts to be delivered to the immediate neighborhoods on construction activities. Stanford shall keep a written record of all such complaints and shall provide copies of these records to the County Planning Office.
17. Preconstruction surveys for nesting raptors and migratory birds shall be conducted by a qualified ornithologist to identify active nests that may be disturbed during project implementation. Between January 1 and April 30, preconstruction surveys shall be conducted no more than 14 days **prior to the initiation of construction activities or tree removal**. Between May 1 and August 31, preconstruction surveys no more than 30 days **prior to the initiation of these activities**. Stanford University shall conduct an additional preconstruction survey within 24 hours of initiation of construction activities, by the Campus Biologist, to verify no new nesting has occurred. If an active nest is found near, or in close proximity to,

the construction area where the nest could be disturbed by these activities, the ornithologist or Campus Biologist, shall, in consultation with the California Department of Fish and Game, designate a construction free buffer zone (typically 250 feet) around the nest.

Land Development Engineering

18. Obtain a Grading Permit **prior to beginning any construction activities**. The process for obtaining a Grading Permit and the forms that are required can be found at the following web page: www.sccplanning.org > I Want to... > Apply for a Permit > Grading Permit
Expect four to six weeks for plan review and plan check comments. Please contact LDE at (299-5734) for additional information and timelines.
19. Final grading plans shall include a single sheet which contains the County standard notes and certificates as shown on County Standard Cover Sheet. Plans shall be neatly and accurately drawn, at an appropriate scale that will enable ready identification and recognition of submitted information.
20. Final grading plans shall be prepared by a licensed civil engineer for review and approval by LDE and the scope of work shall be in substantial conformance with the conditionally approved preliminary plans on file with the Planning Office. Include plan, profile, typical sections, contour grading for all improvements as appropriate for construction. The final design shall be in conformance with all currently adopted standards and ordinances. The following standards (Land Development Engineering Standards and Policies Manual, Volume 1, and 2007 Santa Clara County Grading and Drainage Ordinance) are available on-line:
 - www.sccplanning.org > Plans & Ordinances > Land Development Standards and Policies
 - www.sccplanning.org > Plans & Ordinances > Grading and Drainage Ordinance
21. Provide horizontal control to locate the improvements. Horizontal control shall be tied to record survey monuments.
22. Grading plans shall include an Erosion and Sediment Control Plan that outlines seasonally appropriate erosion and sediment controls during the construction period). Include the County's Standard Best Management Practice Plan Sheets BMP-1 and BMP-2 with the Plan Set.
23. Indicate on the grading plans the land area that will be disturbed. If one acre or more of land area will be disturbed, file a Notice of Intent (NOI) with the State Water Resources Control Board for coverage under the State General Construction Permit. The SWRCGB will issue a Waste Discharge Identification (WDID) number. The WDID number shall be shown on the grading plans. The SWRCVB website is: www.waterboards.ca.gov > Water Issues > Programs > Stormwater
24. Submit a signed/stamped copy of the geotechnical report/letter providing geotechnical recommendations for the project.
25. Submit a signed/stamped plan review letter from the project geotechnical engineer confirming that the final grading plans conform to the geotechnical recommendations provided in the project geotechnical report/letter.

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO OCCUPANCY OR FINAL INSPECTION

Planning

26. Provide a Construction Observation Letter from the qualified biologist that addresses conformance with these conditions of approval, Stanford GUP, and Stanford Habitat Conservation Plan to the Planning Office for review.
27. Following completion of construction, contact Kim Rook at 408-299-5790 to schedule a site visit to verify the approved development. Contact the Planning Department at least two weeks in advance to set up an appointment.

Land Development Engineering

28. Construct the improvements. Construction staking is required and shall be the responsibility of the developer.
29. Submit as-built plans for review/approval by Land Development Engineering Inspection Staff.

Geology

30. **Prior to Grading Completion**, submit a geotechnical engineer's Construction Observations Letter that verifies the work was completed in accordance with the recommendations presented in Associated Terra Consultants' "Limited Engineering Geologic Hazard Assessment" report (dated 4-18-2019) and the project grading plans. (A note to that effect should be stamped on the plans prior to permit issuance.)

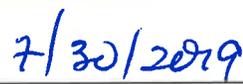
County of Santa Clara

Department of Planning and Development
Planning Office

County Government Center, East Wing, 7th Floor
70 West Hedding Street
San Jose, California 95110-1705
(408) 299-5770 FAX (408) 288-9198
www.sccplanning.org



STATEMENT OF EXEMPTION from the California Environmental Quality Act (CEQA)

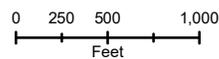
FILE NUMBER PLN19-0080	APN(S) 142-13-008	DATE 7/30/2019
PROJECT NAME Stanford Upper Quarry Restoration Ponds	APPLICATION TYPE Architecture & Site Approval and Grading Approval	
OWNER Stanford University	APPLICANT Steve Bui, Stanford University	
PROJECT LOCATION West of Old Page Mill Road, Upper Quarry		
PROJECT DESCRIPTION Restoration of abandoned quarry watercourse that includes creation of four new California red legged frog (CRLF) breeding habitat ponds, and restoration of riparian wetland vegetation and oak-dominated riparian habitat within an existing Conservation Easement. Grading quantities include approximately 452 cubic yards cut and 441 cubic yards fill (total grading 893 cubic yards). 16 trees greater than 12 inches (non-oak) will be removed and replaced per the Stanford General Use Permit condition requirements. All discretionary development permits processed by the County Planning Office must be evaluated for compliance with the California Environmental Quality Act (CEQA) of 1970 (as amended). Projects which meet criteria listed under CEQA may be deemed exempt from environmental review. The project described above has been evaluated by Planning Staff under the provisions of CEQA and has been deemed to be exempt from further environmental review per the provision(s) listed below.		
CEQA (GUIDELINES) EXEMPTION SECTION Section 15333(a) – Small Habitat Restoration Projects not to exceed 5 acres in size for restoration of habitat for wildlife.		
COMMENTS Restoration area is approximately 4 acres, no hazardous materials will be used that may be disturbed/removed, and the project will not result in significant impacts of past, present, or probable future projects. Project includes revegetation of disturbed areas with native plants, improve habitat for CRLF, and will be carried out primarily with hand labor. Trees removed will be replaced at a 3:1 ratio (<i>Quercus</i>) and 1:1 for non-oaks. No unusual circumstances exist so as to constitute significant effects, per subsection 15300.2(c).		
APPROVED BY: Kim Rook, Senior Planner		
 Signature		 Date



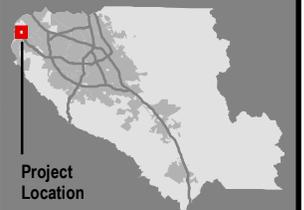
Vicinity Map

PLN19-0080

APN 142-13-008
Stanford University



This map created by the Santa Clara County Planning Office. The GIS data was compiled from various sources. While deemed reliable, the Planning Office assumes no liability. 8/20/2019 2:40:08 PM Y:\Staff\Reports\PLN19-0080\PLN19-0080-vicinity.mxd



Project
Location

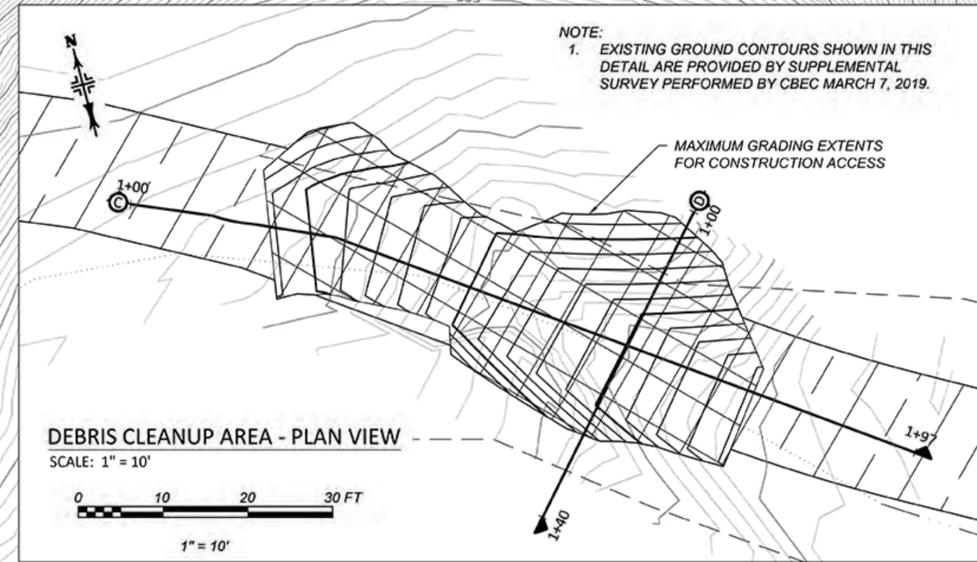
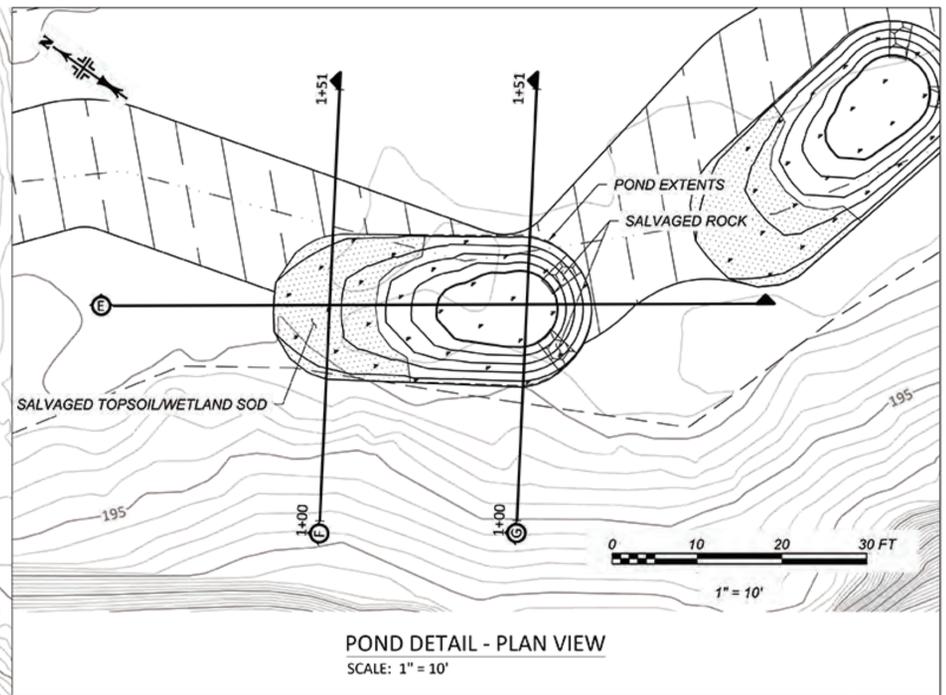
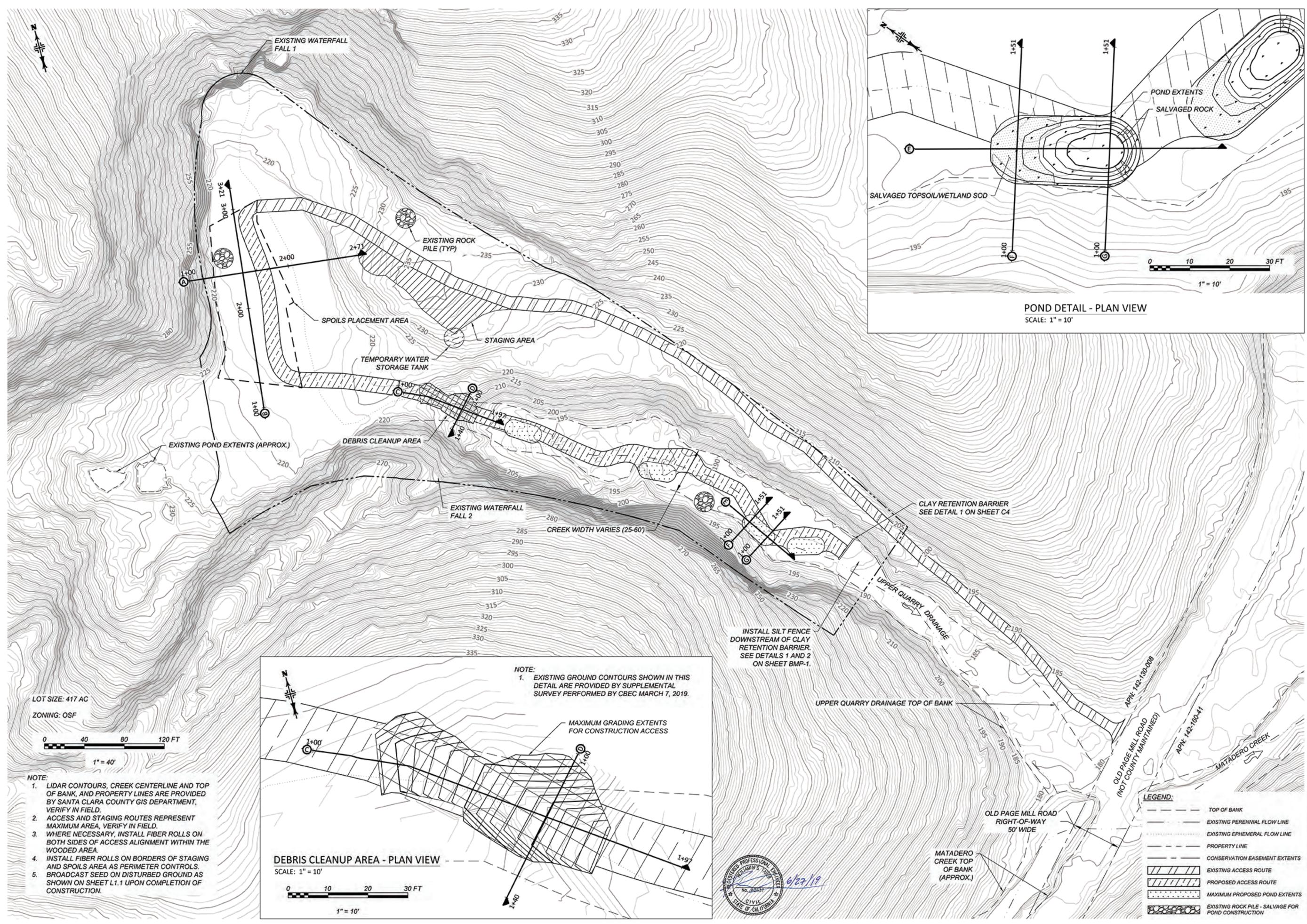
A B C D E

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4



LOT SIZE: 417 AC
ZONING: OSF

0 40 80 120 FT
1" = 40'

- NOTE:
1. LIDAR CONTOURS, CREEK CENTERLINE AND TOP OF BANK, AND PROPERTY LINES ARE PROVIDED BY SANTA CLARA COUNTY GIS DEPARTMENT, VERIFY IN FIELD.
 2. ACCESS AND STAGING ROUTES REPRESENT MAXIMUM AREA, VERIFY IN FIELD.
 3. WHERE NECESSARY, INSTALL FIBER ROLLS ON BOTH SIDES OF ACCESS ALIGNMENT WITHIN THE WOODED AREA.
 4. INSTALL FIBER ROLLS ON BORDERS OF STAGING AND SPOILS AREA AS PERIMETER CONTROLS. BROADCAST SEED ON DISTURBED GROUND AS SHOWN ON SHEET L1.1 UPON COMPLETION OF CONSTRUCTION.

NOTE:
1. EXISTING GROUND CONTOURS SHOWN IN THIS DETAIL ARE PROVIDED BY SUPPLEMENTAL SURVEY PERFORMED BY CBEC MARCH 7, 2019.



LEGEND:

	TOP OF BANK
	EXISTING PERENNIAL FLOW LINE
	EXISTING EPHEMERAL FLOW LINE
	PROPERTY LINE
	CONSERVATION EASEMENT EXTENTS
	EXISTING ACCESS ROUTE
	PROPOSED ACCESS ROUTE
	MAXIMUM PROPOSED POND EXTENTS
	EXISTING ROCK PILE - SALVAGE FOR POND CONSTRUCTION

USE OF DOCUMENTS INCORPORATING THIS DESIGN IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT ONLY AND NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF cbec, inc.

DESIGNED	DOCUMENT RELEASE
DRAWN	PRELIMINARY GRADING PLAN
REVIEWED	REVISION NOTES
APPROVED	REVISION 002/2019

PREPARED BY:

CLIENT: STANFORD UNIVERSITY
LAND USE AND ENVIRONMENTAL PLANNING
3160 PORTER DRIVE, SUITE 200
PALO ALTO, CA 94304
(650) 723-7773

CALIFORNIA
STANFORD UNIVERSITY HCP
UPPER QUARRY CALIFORNIA RED-LEGGED FROG
HABITAT RESTORATION AND MONITORING PLAN
SITE PLAN

PALO ALTO
JOB NUMBER: 15-1009-3
DATE: JUNE 2019
SHEET: C2
2 OF 5

USE OF DOCUMENTS INCLUDING THIS ONE FOR ANY PURPOSES OTHER THAN THAT AUTHORIZED BY THE INSTRUMENT OF SERVICE FOR THIS PROJECT SHALL BE PROHIBITED. ANY OTHER USE WITHOUT THE WRITTEN AUTHORIZATION OF cbec, inc.

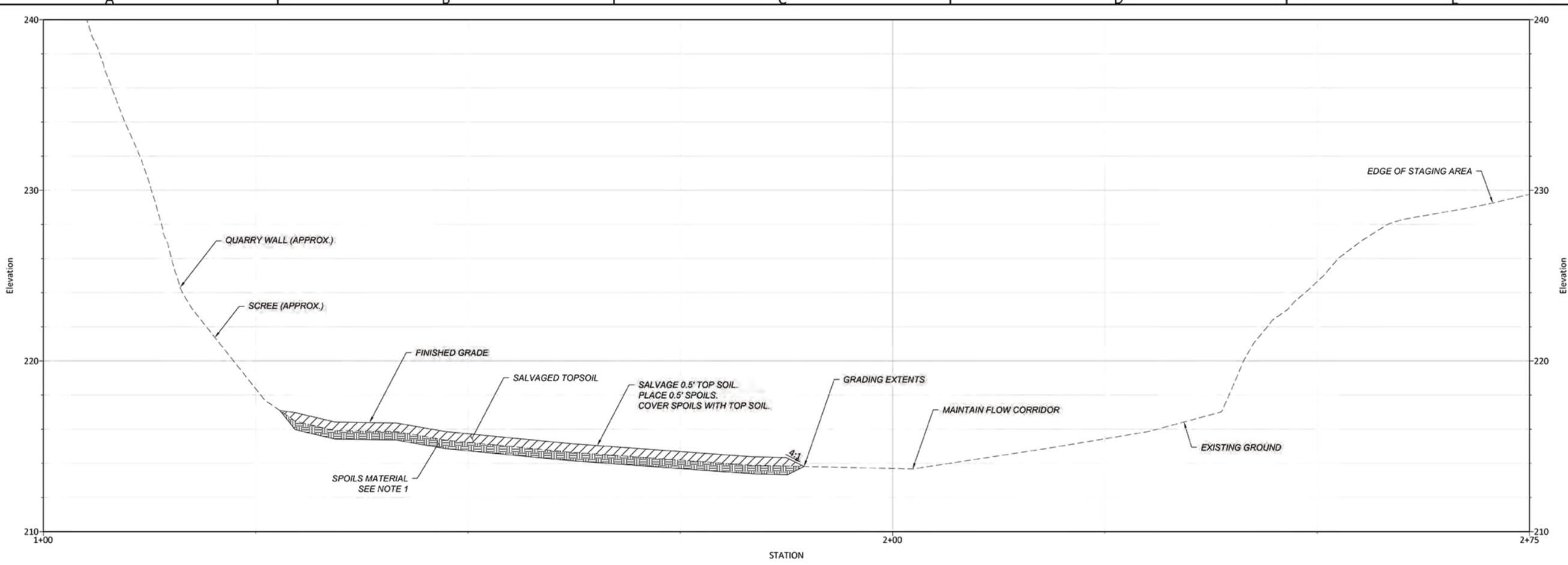
DESIGNED	DOCUMENT RELEASE
DRAWN	PRELIMINARY GRADING PLAN
REVIEWED	REVISION NOTES
APPROVED	



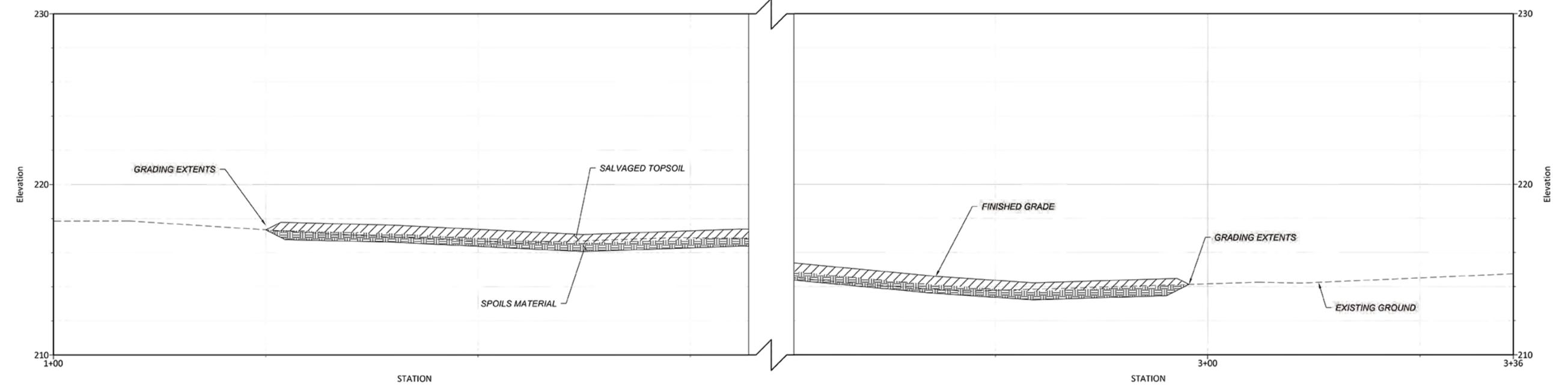
STANFORD UNIVERSITY
LAND USE AND ENVIRONMENTAL PLANNING
3160 PORTER DRIVE, SUITE 200
PALO ALTO, CA 94304
(650) 723-7773

STANFORD UNIVERSITY HCP
UPPER QUARRY CALIFORNIA RED-LEGGED FROG
HABITAT RESTORATION AND MONITORING PLAN
SECTIONS (1 OF 2)

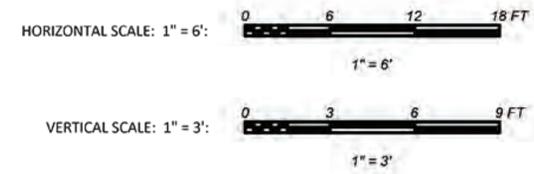
JOB NUMBER	15-1009-3
DATE	---
SHEET	C3
	3 OF 5



A TYPICAL SECTION A
SCALE: H1" = 6'; V1" = 3'

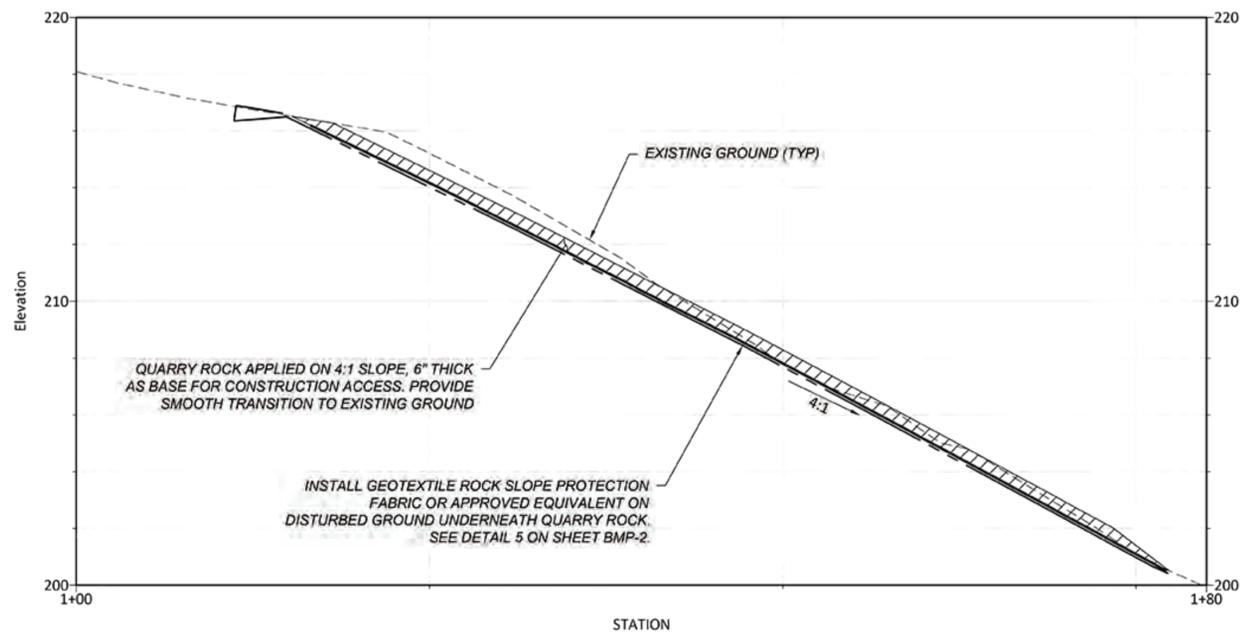


B TYPICAL SECTION B
SCALE: H1" = 6'; V1" = 3'

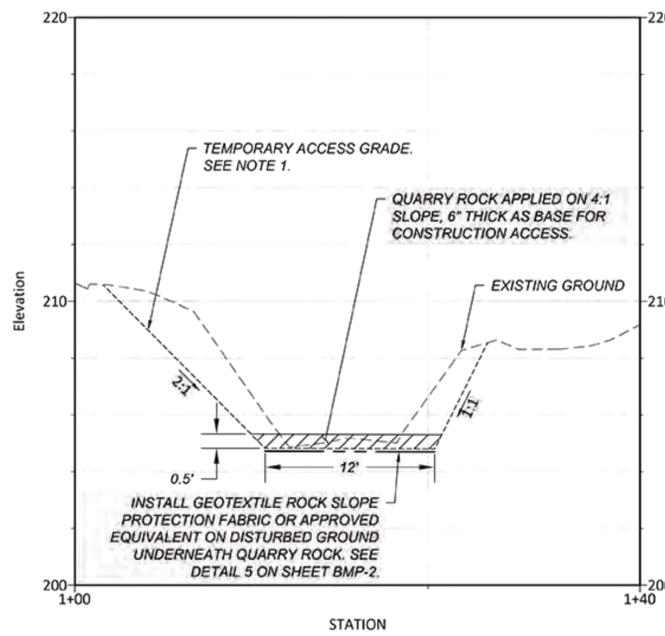


- NOTES:
1. COMPACT FILL IN 6" LIFTS USING TRACKED EQUIPMENT OR SIMILAR. COMPACT UP TO 80% RELATIVE COMPACTION.
 2. SPOILS PILE DEPTH MAY VARY BETWEEN 0.5' AND 3' TO MAINTAIN THE FLOW CORRIDOR, SECTIONS REPRESENT THE MAXIMUM ALLOWABLE DISTURBANCE AREA.

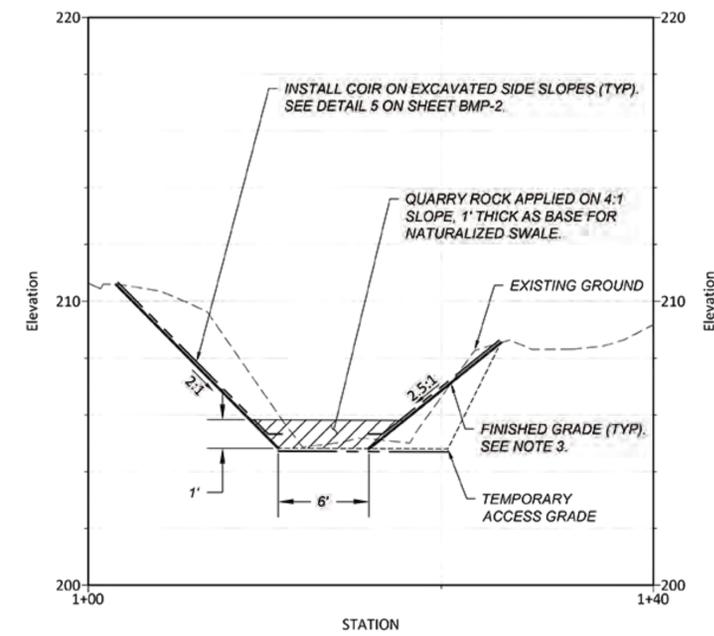




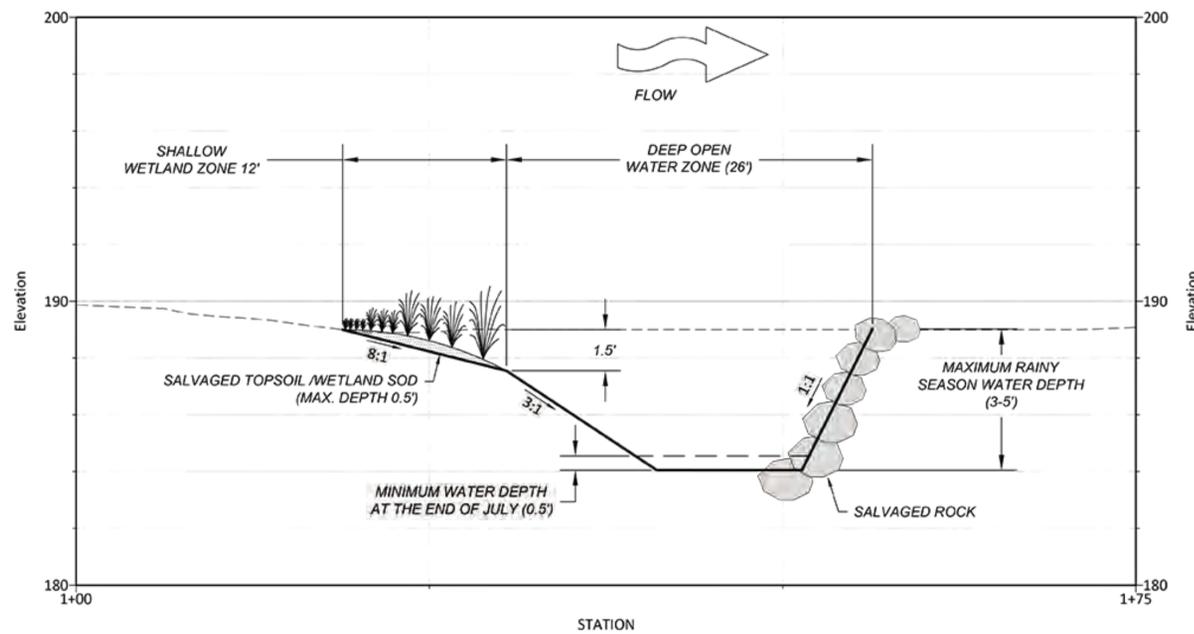
C TYPICAL SECTION C
C2 SCALE: H1" = 6'; V1" = 3'



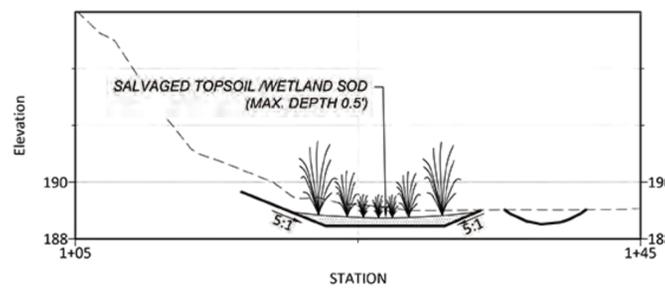
D TYPICAL SECTION D - INTERIM CONDITION
C2 SCALE: H1" = 6'; V1" = 3'



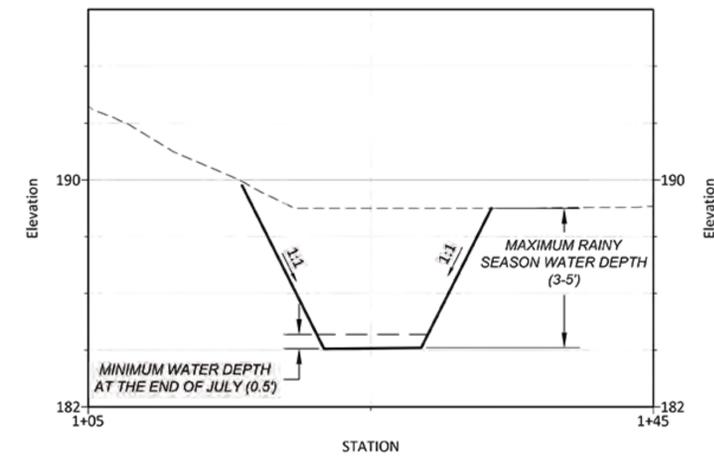
D TYPICAL SECTION D - FINISHED CONDITION
C2 SCALE: H1" = 6'; V1" = 3'



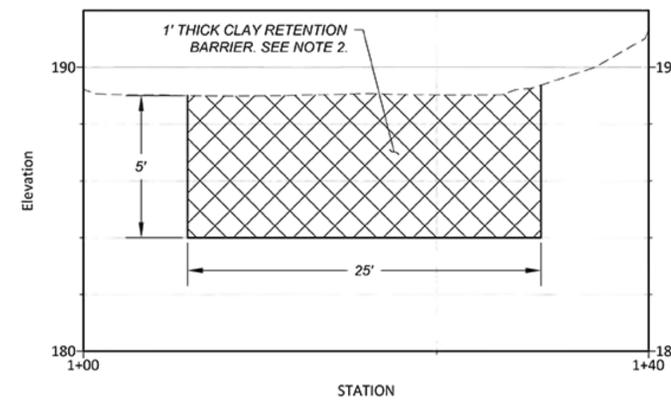
E TYPICAL SECTION E
C2 SCALE: H1" = 6'; V1" = 3'



F TYPICAL SECTION F
C2 SCALE: H1" = 6'; V1" = 3'



G TYPICAL SECTION G
C2 SCALE: H1" = 6'; V1" = 3'



1 CLAY RETENTION BARRIER
C2 SCALE: H1" = 6'; V1" = 3'

- NOTE:
- CUT TEMPORARY ACCESS GRADE DURING CONSTRUCTION. AFTER CONSTRUCTION, FILL SLOPES TO MEET FINISHED GRADE.
 - EXCAVATE TRENCH TO DIMENSIONS SHOWN. MIX BENTONITE GRANULES (VOLCLAY CG50 OR APPROVED EQUIVALENT) WITH EXCAVATED MATERIAL. CREATE WELL-HOMOGENIZED MIXTURE OF SOIL AND BENTONITE PER ENGINEER'S RECOMMENDATION WITH APPLICATION RATE OR 8 LB/SQ.FT IN 6" LIFTS, OR SIMILAR VOLUME RATIO OF 4:1 SOIL TO BENTONITE RATIO.
 - COMPACT FINISHED GRADE FILL SLOPES IN ACCESS ROUTE TO 90% RELATIVE COMPACTION.



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DESIGNED	DOCUMENT RELEASE
DRAWN	PRELIMINARY GRADING PLAN
REVIEWED	REVISION NOTES
APPROVED	

PREPARED BY: **cbec** PART OF GRASSMANN

STANFORD UNIVERSITY CLIENT: **STANFORD UNIVERSITY HCP**
UPPER QUARRY CALIFORNIA RED-LEGGED FROG
HABITAT RESTORATION AND MONITORING PLAN
SECTIONS (2 OF 2)

3160 PORTER DRIVE, SUITE 200
PALO ALTO, CA 94304
(650) 723-7773

JOB NUMBER: 15-1009-3
DATE: ---
SHEET: **C4**
4 OF 5

A I B I C I D I E

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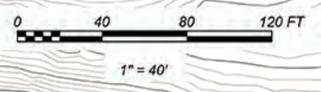
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MAXIMUM DISTURBANCE EXTENTS



LEGEND:

	LANDSLIDE HAZARD AREA
	LIQUEFACTION HAZARD AREA

NOTE:
 1. LIDAR CONTOURS AND GEOLOGIC HAZARD AREAS ARE PROVIDED BY SANTA CLARA COUNTY GIS DEPARTMENT, VERIFY IN FIELD.

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DESIGNED	DOCUMENT RELEASE
DRAWN	PRELIMINARY GRADING PLAN
REVIEWED	REVISION NOTES
APPROVED	



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 (650) 723-7773

CALIFORNIA
 STANFORD UNIVERSITY HCP
 UPPER QUARRY CALIFORNIA RED-LEGGED FROG
 HABITAT RESTORATION AND MONITORING PLAN
 GEOLOGIC HAZARDS PLAN

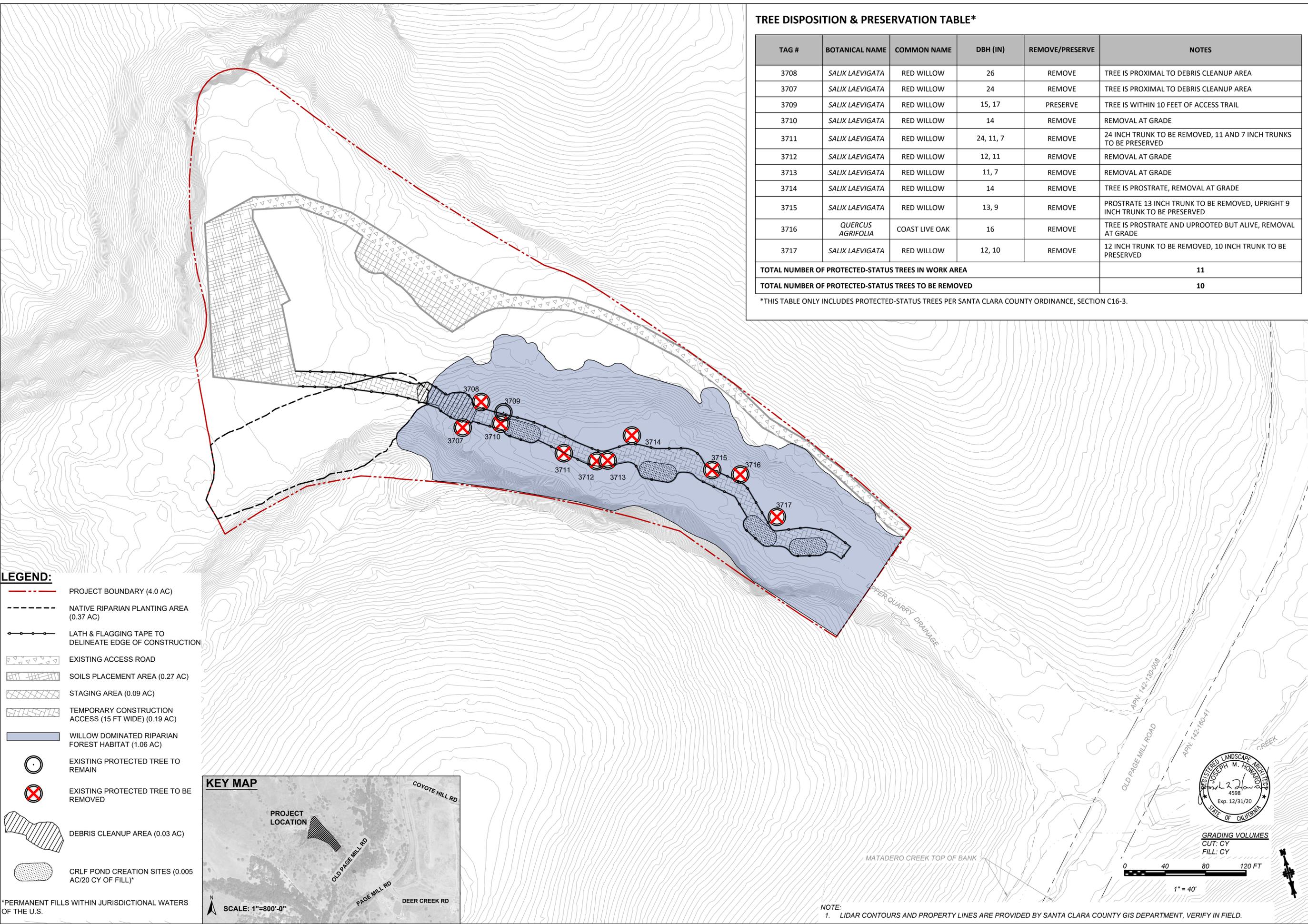
JOB NUMBER	15-1009-3
DATE	---
SHEET	C5
	5 OF 5

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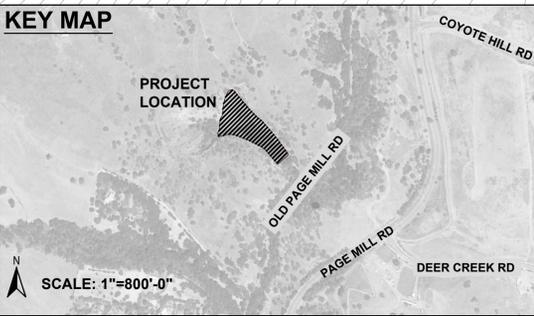
4



LEGEND:

- PROJECT BOUNDARY (4.0 AC)
- NATIVE RIPARIAN PLANTING AREA (0.37 AC)
- LATH & FLAGGING TAPE TO DELINEATE EDGE OF CONSTRUCTION
- EXISTING ACCESS ROAD
- SOILS PLACEMENT AREA (0.27 AC)
- STAGING AREA (0.09 AC)
- TEMPORARY CONSTRUCTION ACCESS (15 FT WIDE) (0.19 AC)
- WILLOW DOMINATED RIPARIAN FOREST HABITAT (1.06 AC)
- EXISTING PROTECTED TREE TO REMAIN
- X EXISTING PROTECTED TREE TO BE REMOVED
- DEBRIS CLEANUP AREA (0.03 AC)
- CRLF POND CREATION SITES (0.005 AC/20 CY OF FILL)*

*PERMANENT FILLS WITHIN JURISDICTIONAL WATERS OF THE U.S.



TREE DISPOSITION & PRESERVATION TABLE*

TAG #	BOTANICAL NAME	COMMON NAME	DBH (IN)	REMOVE/PRESERVE	NOTES
3708	<i>SALIX LAEVIGATA</i>	RED WILLOW	26	REMOVE	TREE IS PROXIMAL TO DEBRIS CLEANUP AREA
3707	<i>SALIX LAEVIGATA</i>	RED WILLOW	24	REMOVE	TREE IS PROXIMAL TO DEBRIS CLEANUP AREA
3709	<i>SALIX LAEVIGATA</i>	RED WILLOW	15, 17	PRESERVE	TREE IS WITHIN 10 FEET OF ACCESS TRAIL
3710	<i>SALIX LAEVIGATA</i>	RED WILLOW	14	REMOVE	REMOVAL AT GRADE
3711	<i>SALIX LAEVIGATA</i>	RED WILLOW	24, 11, 7	REMOVE	24 INCH TRUNK TO BE REMOVED, 11 AND 7 INCH TRUNKS TO BE PRESERVED
3712	<i>SALIX LAEVIGATA</i>	RED WILLOW	12, 11	REMOVE	REMOVAL AT GRADE
3713	<i>SALIX LAEVIGATA</i>	RED WILLOW	11, 7	REMOVE	REMOVAL AT GRADE
3714	<i>SALIX LAEVIGATA</i>	RED WILLOW	14	REMOVE	TREE IS PROSTRATE, REMOVAL AT GRADE
3715	<i>SALIX LAEVIGATA</i>	RED WILLOW	13, 9	REMOVE	PROSTRATE 13 INCH TRUNK TO BE REMOVED, UPRIGHT 9 INCH TRUNK TO BE PRESERVED
3716	<i>QUERCUS AGRIFOLIA</i>	COAST LIVE OAK	16	REMOVE	TREE IS PROSTRATE AND UPROOTED BUT ALIVE, REMOVAL AT GRADE
3717	<i>SALIX LAEVIGATA</i>	RED WILLOW	12, 10	REMOVE	12 INCH TRUNK TO BE REMOVED, 10 INCH TRUNK TO BE PRESERVED
TOTAL NUMBER OF PROTECTED-STATUS TREES IN WORK AREA					11
TOTAL NUMBER OF PROTECTED-STATUS TREES TO BE REMOVED					10

*THIS TABLE ONLY INCLUDES PROTECTED-STATUS TREES PER SANTA CLARA COUNTY ORDINANCE, SECTION C16-3.

USE OF DOCUMENTS INCORPORATED INTO THIS DESIGN IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT ONLY AND NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF HTH, INC.

DOCUMENT RELEASE
 REVISION NOTES
 DESIGNED: _____
 DRAWN: _____
 REVIEWED: _____
 APPROVED: _____

PREPARED BY:
H. T. HARVEY & ASSOCIATES
 Ecological Consultants

CLIENT:
STANFORD UNIVERSITY
 LAND USE AND ENVIRONMENTAL PLANNING
 3160 PORTER DRIVE, SUITE 200
 PALO ALTO, CA 94304
 (650) 723-7773

CALIFORNIA
STANFORD UNIVERSITY HCP
 UPPER QUARRY CALIFORNIA RED-LEGGED FROG
 HABITAT RESTORATION AND MONITORING PLAN
 TREE DISPOSITION AND PROTECTION PLAN

PALO ALTO
 REGISTERED LANDSCAPE ARCHITECT
 JOSEPH M. HOWARD
 4598
 Exp. 12/31/20
 STATE OF CALIFORNIA

GRADING VOLUMES
 CUT: CY
 FILL: CY

JOB NUMBER
 3671-05

DATE
 3/15/2019

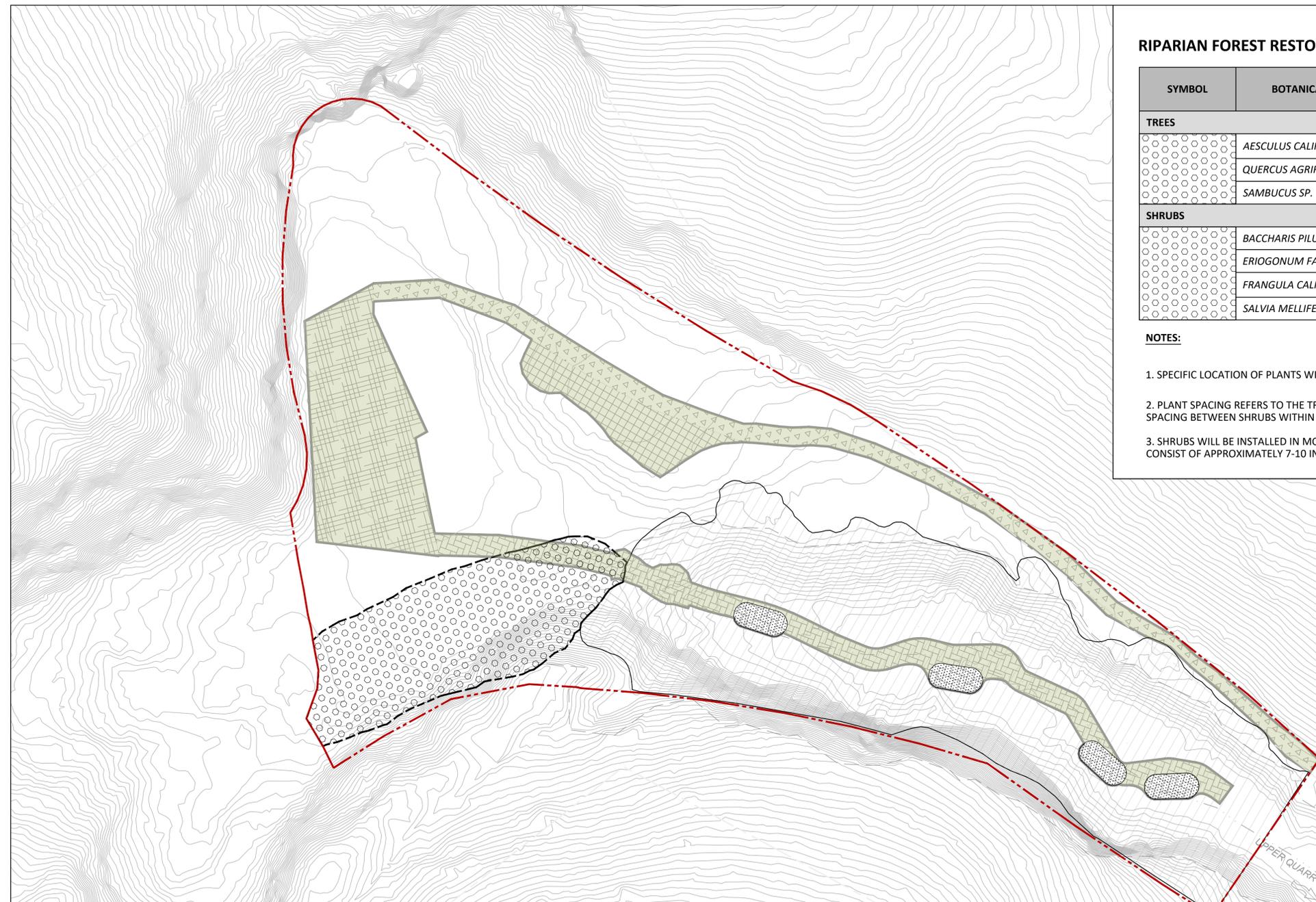
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 1 OF 2

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RIPARIAN FOREST RESTORATION PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	CONTAINER SIZE	WUCOLS	PLANT SPACING (TRIANGULAR FEET ON CENTER)	QUANTITY
TREES						
○	<i>AESCULUS CALIFORNICA</i>	CALIFORNIA BUCKEYE	TREEPOT 4	VL	12	39
○	<i>QUERCUS AGRIFOLIA</i>	COAST LIVE OAK	TREEPOT 4	VL	15	33
○	<i>SAMBUCUS SP.</i>	ELDERBERRY	TREEPOT 4	L	10	56
SHRUBS						
○	<i>BACCHARIS PILULARIS</i>	COYOTE BRUSH	1 GAL	L	8	26
○	<i>ERIOGONUM FASCICULATUM</i>	BUCKWHEAT	1 GAL	VL	6	13
○	<i>FRANGULA CALIFORNICA</i>	CALIFORNIA COFFEEBERRY	1 GAL	L	6	52
○	<i>SALVIA MELLIFERA</i>	BLACK SAGE	1 GAL	L	6	22

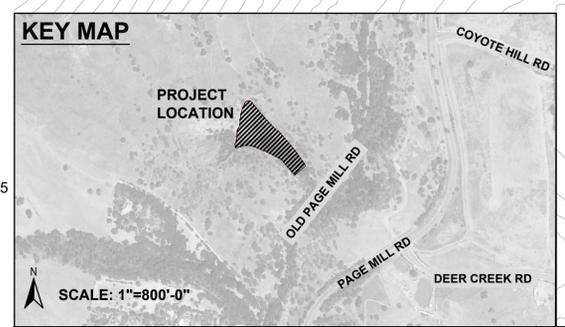
- NOTES:**
- SPECIFIC LOCATION OF PLANTS WILL BE FLAGGED IN THE FIELD BY A RESTORATION ECOLOGIST.
 - PLANT SPACING REFERS TO THE TRIANGULAR SPACING BETWEEN TREES THROUGHOUT THE RIPARIAN RESTORATION AREA AND TO THE TRIANGULAR SPACING BETWEEN SHRUBS WITHIN SHRUB CLUSTERS.
 - SHRUBS WILL BE INSTALLED IN MONOSPECIFIC CLUSTERS. THEY WILL COVER APPROXIMATELY 25% OF THE RIPARIAN RESTORATION AREA AND WILL CONSIST OF APPROXIMATELY 7-10 INDIVIDUALS PER SPECIES CLUSTER.

SEEDING SCHEDULE

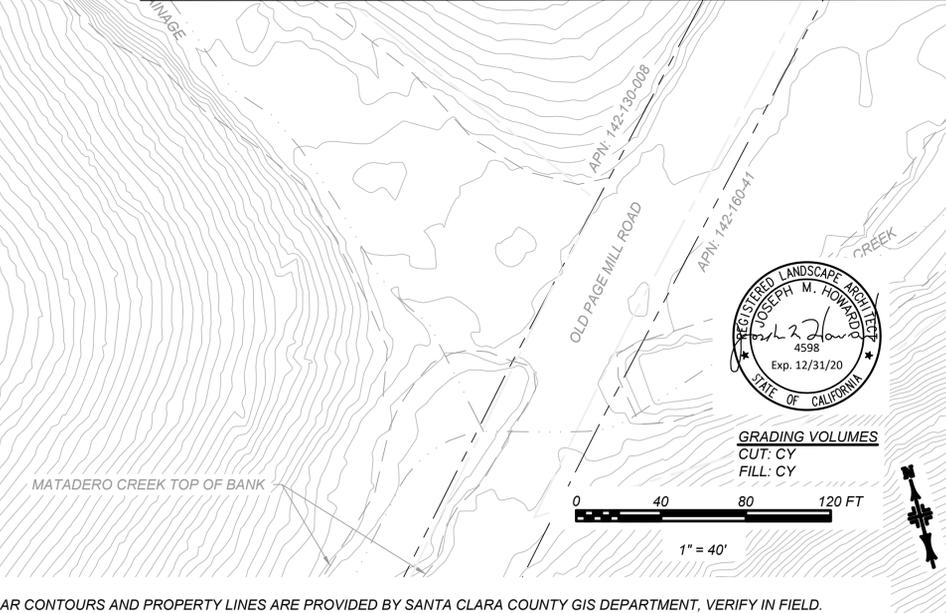
SYMBOL	BOTANICAL NAME	COMMON NAME	PURE LIVE SEED IBS PER ACRE
■	<i>ACMISPON GLABER</i>	DEERWEED	2
■	<i>ARTEMISIA CALIFORNICA</i>	CALIFORNIA SAGEBRUSH	1
■	<i>BROMUS CARINATUS</i>	CALIFORNIA BROME	5
■	<i>ELYMUS GLAUCUS</i>	BUCKLEY BLUE	5
■	<i>ERIOPHYLLUM CONFERTIFLORUM</i>	GOLDEN YARROW	2
■	<i>ESCHSCHOLZIA CALIFORNICA</i>	CALIFORNIA POPPY	3
■	<i>FESTUCA MICROSTACHYS</i>	THREE WEEKS FESCUE	4
■	<i>HORDEUM BRACHYANTHERUM</i>	MEADOW BARLEY	5
■	<i>LUPINUS SUCCULENTUS</i>	ARROYO LUPINE	3
■	<i>SALVIA MELLIFERA</i>	BLACK SAGE	2
TOTAL			32

- NOTES:**
- BROADCAST SEED AND APPLY STRAW TO ALL DISTURBED UPLAND HABITAT.

- LEGEND:**
- PROJECT BOUNDARY (4.0 AC)
 - NATIVE RIPARIAN PLANTING AREA (0.37 AC)
 - ▽ EXISTING ACCESS ROAD
 - ▨ SOILS PLACEMENT AREA (0.27 AC)
 - ▩ STAGING AREA (0.09 AC)
 - ▧ TEMPORARY CONSTRUCTION ACCESS (15 FT WIDE) (0.19 AC)
 - ▭ WILLOW DOMINATED RIPARIAN FOREST HABITAT (1.06 AC)
 - SEEDED AREA
 - CRLF POND CREATION SITES (0.005 AC/20 CY OF FILL)*



*PERMANENT FILLS WITHIN JURISDICTIONAL WATERS OF THE U.S.



NOTE: 1. LIDAR CONTOURS AND PROPERTY LINES ARE PROVIDED BY SANTA CLARA COUNTY GIS DEPARTMENT, VERIFY IN FIELD.

USE OF DOCUMENT FOR THIS PROJECT INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF Hec, Inc.

DESIGNED: _____ DRAWN: _____ REVIEWED: _____ APPROVED: _____

DOCUMENT RELEASE

REVISION NOTES

PREPARED BY: **H. T. HARVEY & ASSOCIATES** Ecological Consultants

STANFORD UNIVERSITY LAND USE AND ENVIRONMENTAL PLANNING 3160 PORTER DRIVE, SUITE 200 PALO ALTO, CA 94304 (650) 723-7773

CLIENT: CALIFORNIA STANFORD UNIVERSITY HCP UPPER QUARRY CALIFORNIA RED-LEGGED FROG HABITAT RESTORATION AND MONITORING PLAN RIPARIAN TREE & SHRUB PLANTING PLAN

REGISTERED LANDSCAPE ARCHITECT JOSEPH M. HOWARD 4598 Exp. 12/31/20 STATE OF CALIFORNIA

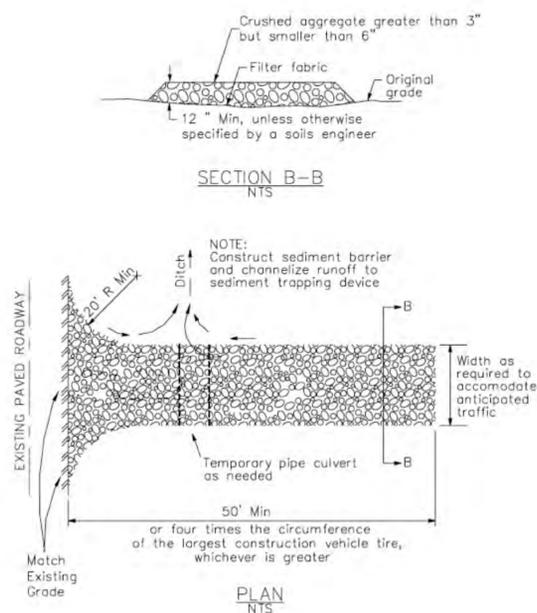
GRADING VOLUMES CUT: CY FILL: CY

0 40 80 120 FT 1" = 40'

JOB NUMBER 3671-05 DATE 3/15/2019 SHEET **L1.1** 2 OF 2

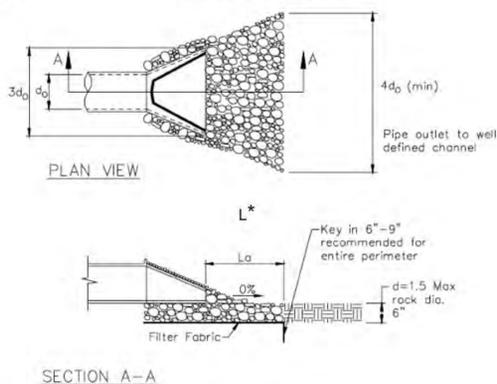
3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



4 Velocity Dissipation Devices

CASQA Detail EC-10

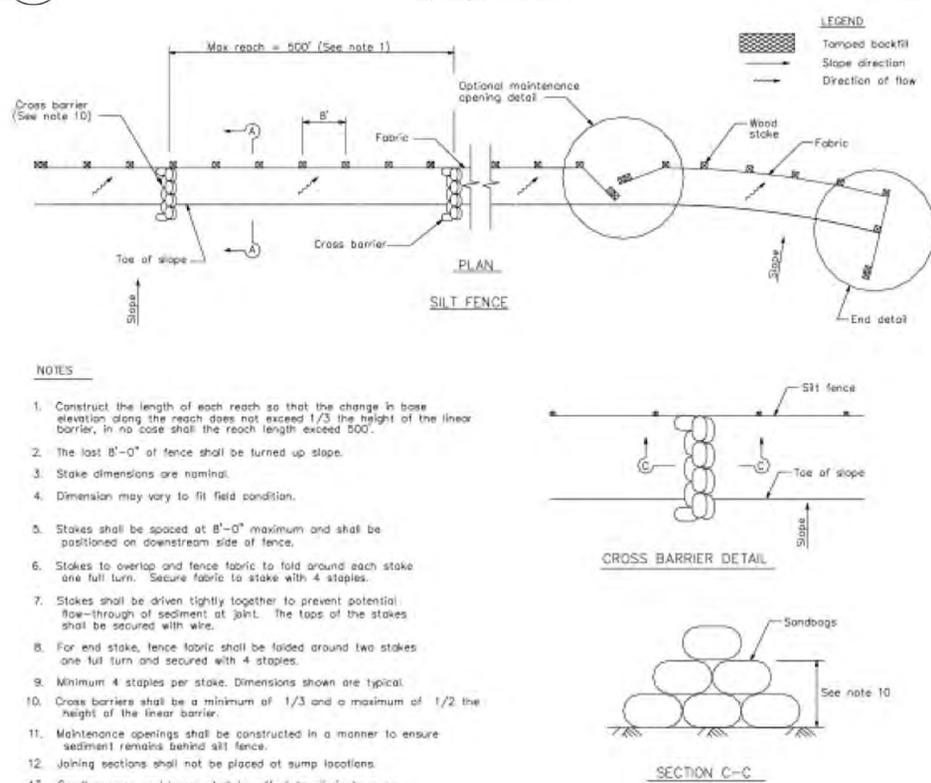


* Length per ABAG Design Standards

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

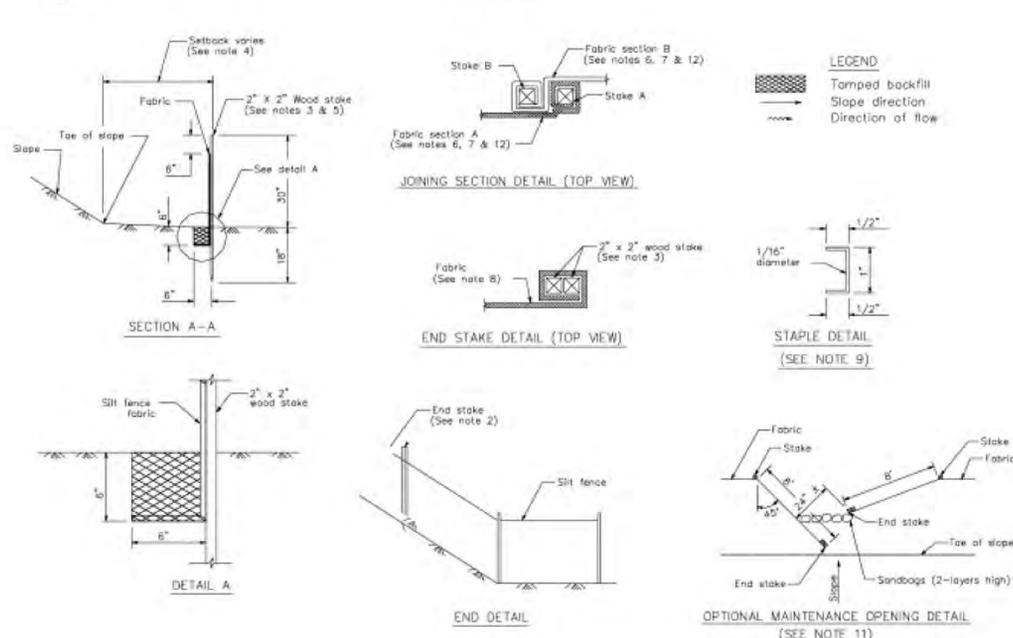
1 Silt Fence

CASQA Detail SE-1



2 Silt Fence

CASQA Detail SE-1



STANDARD BEST MANAGEMENT PRACTICE NOTES

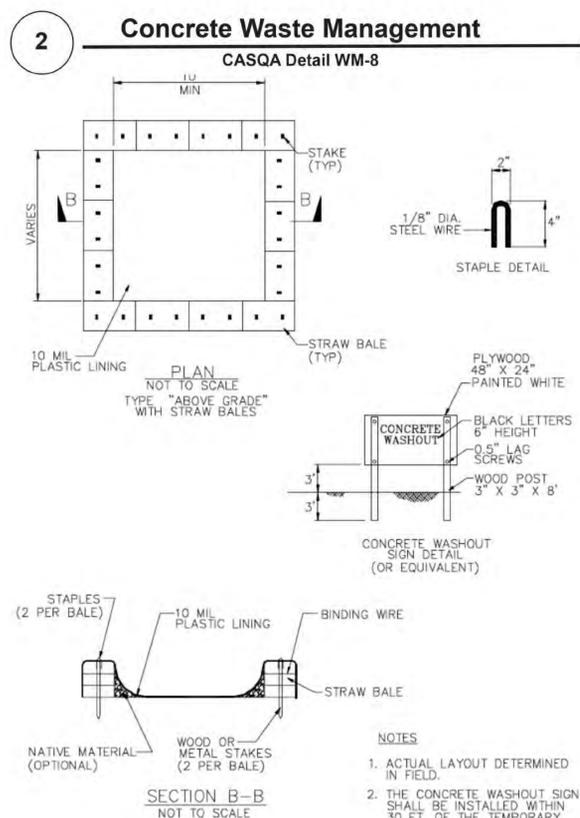
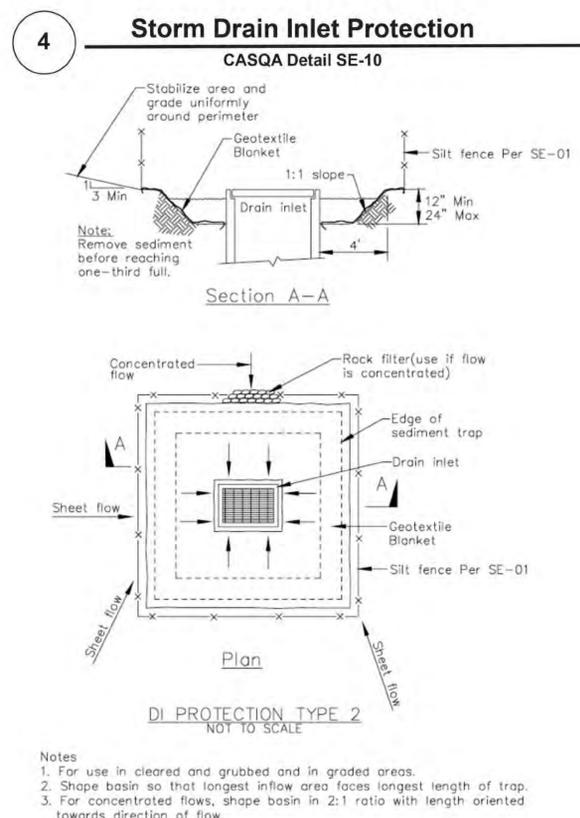
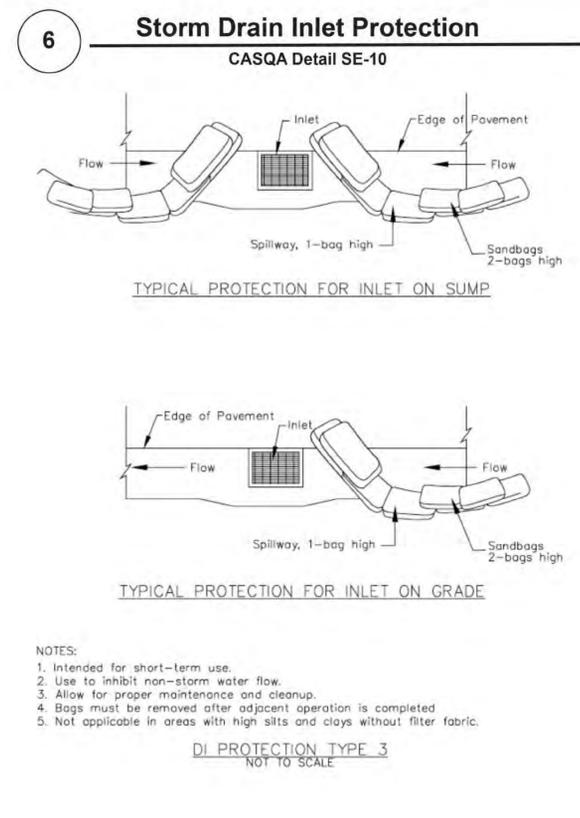
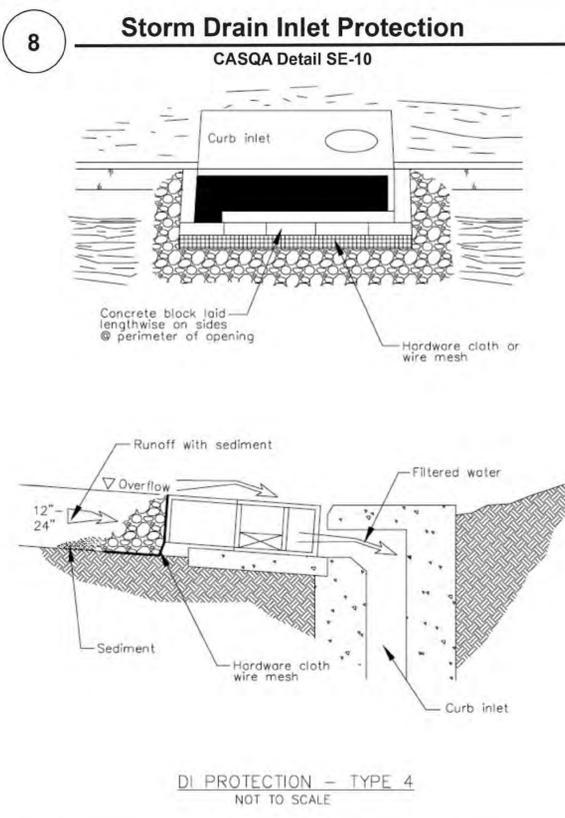
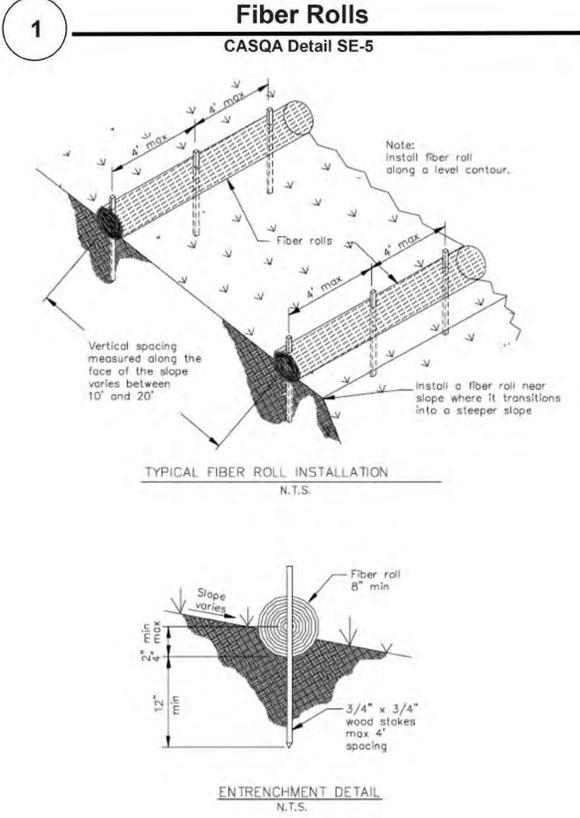
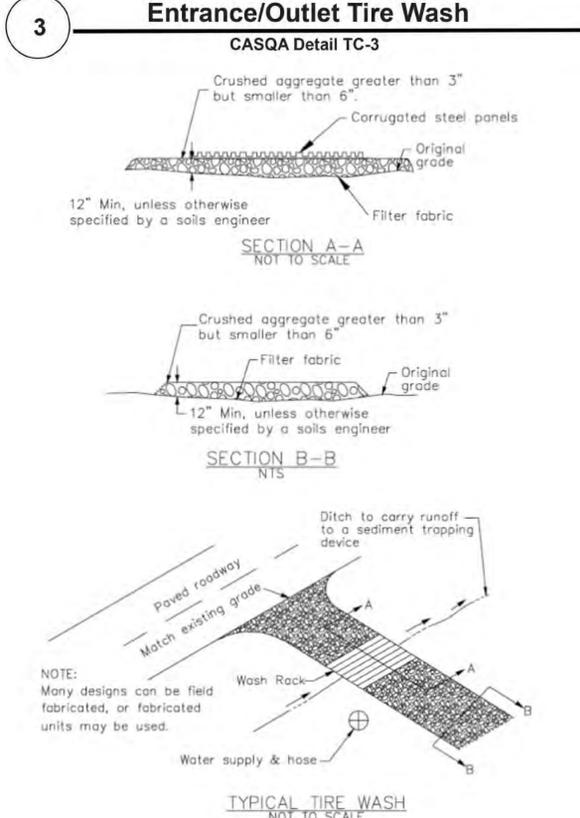
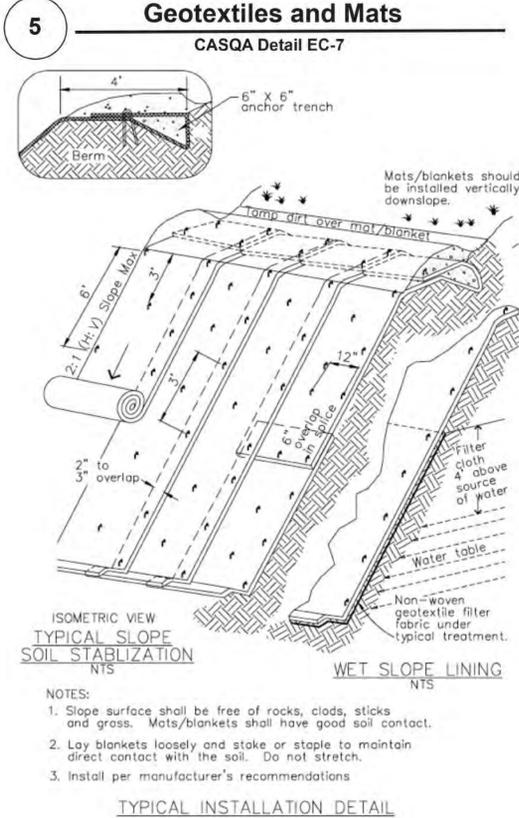
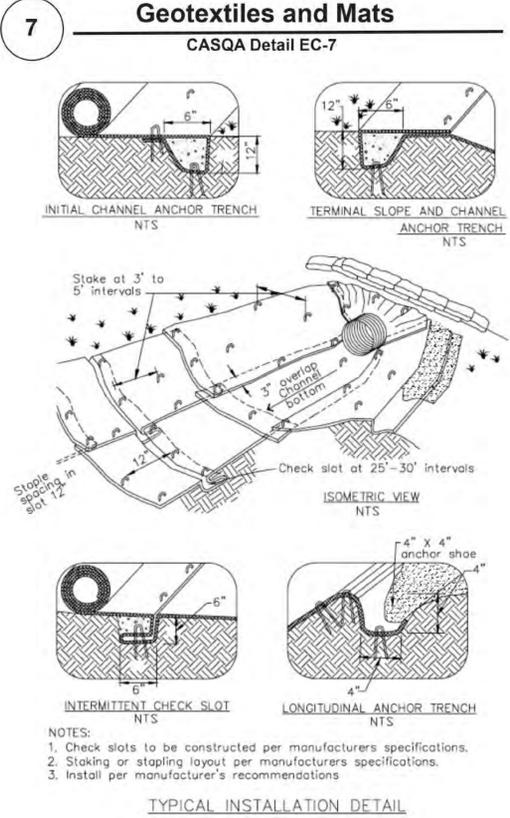
- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
 - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
 - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Project Information





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Project Information

