



REPLY TO
ATTENTION OF

Regulatory Division

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT CORPS OF ENGINEERS
CARLSBAD FIELD OFFICE
5900 LA PLACE COURT, SUITE 100
CARLSBAD, CA 92008

December 13, 2013

Thomas Duffy
San Diego County Department of Public Works
Environmental Services Unit
5510 Overland Avenue, Suite 410 (MS-0385)
San Diego, California 92133-1295

DEPARTMENT OF THE ARMY NATIONWIDE PERMIT VERIFICATION

Dear Mr. Duffy:

I am responding to your request (SPL-2013-00170-RJV) for a Department of the Army (DA) permit. Your proposed project, Fallbrook 1C Burn Dump remediation, is located along Stone Post Road, west of Santa Margarita Drive, in the community of Fallbrook, San Diego County, California (33.398 N, -117.245 W). The project will result in a discharge of dredged and/or fill material into waters of the United States (U.S.); therefore, pursuant to section 404 of the Clean Water Act (33 U.S.C. 1344; 33 C.F.R. parts 323 and 330) a DA permit is required.

I have determined construction of your proposed project complies with Nationwide Permit (NWP) No. 38 - Cleanup of Hazardous and Toxic Waste, if constructed as described in your application. The project proposes to clean-up a former burn dump site on a County of San Diego and two privately owned parcels within the community of Fallbrook. Approximately 10,500 cubic yards (CY) of burn ash material will be excavated from 1.7 acres of the project site and disposed of at an off-site landfill. In addition, approximately 2,100 CY of cover soil above the burn ash and 2,900 CY of sub-grade material below the burn ash will be excavated. Excavation of burn ash will occur up to an approximate maximum depth of 18 feet (including 6 inches below and above the burn ash material). Vegetation will be removed from the excavation area, staging area, stockpile area, and ingress and egress areas. Cover soil without visible indications of burn ash will be removed and stock piled on-site for use during re-grading. The excavated areas will be re-contoured with on-site salvaged soil and potentially imported soil to match adjacent site contours. The post project elevations will generally be less than pre-project, ranging from approximately a few feet higher to 20 feet less. The project will permanently impact 0.01 acre of non-wetland waters of the U.S. The drainages will be re-contoured to match the newly graded slopes (see Sheet 6 of construction plans). The site will be revegetated with native plant species (oak woodland, oak riparian woodland, native grassland) according to the "Fallbrook 1C Burn Dump Project Conceptual Restoration Plan", prepared by ICF International, dated May 2013.

Specifically, and as shown on the attached drawing(s)/map(s), you are authorized to conduct the following regulated activities:

To discharge fill material into non-wetland waters of the U.S. resulting in the permanent impact to approximately 0.006 acre of drainage S-1, 0.003 acre of drainage S-2 and 0.001 acre of drainage S-4 (total impacts = 0.01 acre of non-wetland waters of the U.S.) in order to remove burn ash material from the project site and re-contour the site and associated drainages to match the surrounding topography.

For this NWP verification letter to be valid, you must comply with all of the terms and conditions in Enclosure 1. Furthermore, you must comply with the following non-discretionary Special Conditions:

1. The Permittee shall fully implement the “Fallbrook 1C Burn Dump Project Conceptual Restoration Plan”, prepared by ICF International, dated May 2013. The plan outlines revegetation of the project site with various native habitats (oak riparian, southern willow scrub, oak woodland and grassland). Because the project site will be revegetated and will not result in a permanent loss of waters of the U.S., due to the existing drainages being realigned/re-configured, compensatory mitigation is not required. However, the restoration plan must be implemented and associated performance standards met in order for the functions and services of the project site post-construction to meet (or exceed) the functions and services of the site prior to construction.
2. All grading on site shall mimic the natural topography of the adjacent areas. The site shall be graded as natural as possible with no sharp corners, edges or contours. The re-created drainages shall mimic natural drainages and incorporate minor meandering, micro-topography and gentle side slopes, where appropriate. The drainages shall not be graded like trapezoidal channels. The site shall incorporate micro-topographic depressions and rises.
3. The Permittee shall use willow cuttings from adjacent trees, in addition to nursery container plants and seed, as part of the revegetation efforts. All container stock and seed shall be obtained from a local nursery or supplier (within 25 miles of the project site), where possible.
4. The Permittee shall implement revegetation efforts during the first Fall/Winter following completion of construction.
5. Within 45 calendar days of completion of authorized work in waters of the U.S., the Permittee shall submit to the U.S. Army Corps of Engineers (Corps) Regulatory Division a post-project implementation memorandum including the following information:
 - a. Date(s) work within waters of the U.S. was initiated and completed;
 - b. Summary of compliance status with each special condition of this permit (including any noncompliance that previously occurred or is currently occurring and corrective actions taken or proposed to achieve compliance);
 - c. Color photographs (including map of photopoints) taken at the project site before and after construction for those aspects directly associated with permanent impacts to waters of the U.S. such that the extent of authorized fills can be verified;

- d. One copy of "as built" drawings for the entire project. Electronic submittal (Adobe PDF format) is preferred. All sheets must be signed, dated, and to-scale. If submitting paper copies, sheets must be no larger than 11 x 17 inches; and
 - e. Signed Certification of Compliance (attached as part of this permit package).
6. This Corps permit does not authorize you to take any threatened or endangered species, in particular the least Bell's vireo (*Vireo*; *Vireo bellii pusillus*) or coastal California gnatcatcher (*Poliophtila californica californica*), or adversely modify designated critical habitat. The western edge of the project site (approximately 100 square feet) is located within the critical habitat boundary for Vireo; however, this particular area lacks the primary constituent elements (PCEs) for Vireo critical habitat. Therefore, the Corps has determined the project site does not affect designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g. ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply).
 7. Pursuant to 36 C.F.R. section 800.13, in the event of any discoveries during construction of either human remains, archeological deposits, or any other type of historic property, the Permittee shall notify the Corps Regulatory Division (R.J. Van Sant at 760-602-4837) and the Corps' Archeology Staff within 24 hours (Steve Dibble at 213-452-3849 or John Killeen at 213-452-3861). The Permittee shall immediately suspend all work in any area(s) where potential cultural resources are discovered. The Permittee shall not resume construction in the area surrounding the potential cultural resources until the Corps Regulatory Division re-authorizes project construction, per 36 C.F.R. section 800.13.
 8. The Permittee shall allow a monitor from the Pechanga Band of Mission Indians (Pechanga) to survey the construction site after excavation of burn ash material but prior to disturbance of native soils. The survey is anticipated to take less than one day and as agreed by Pechanga, will occur at no cost to the Permittee.

This verification is valid through March 18, 2017. If on March 18, 2017 you have commenced or are under contract to commence the permitted activity you will have an additional twelve (12) months to complete the activity under the present NWP terms and conditions. However, if I discover noncompliance or unauthorized activities associated with the permitted activity we can exercise discretionary authority and thereby modify, suspend, or revoke this specific verification at an earlier date in accordance with procedures in 33 C.F.R. § 330.4(e) and 33 C.F.R. § 330.5(c) or (d). At the national level the Chief of Engineers at any time prior to the expiration of a NWP may choose to modify, suspend, or revoke the nationwide use of a NWP after following procedures set forth in 33 C.F.R. § 330.5. It is incumbent upon you to comply with all of the terms and conditions of this NWP verification and to remain informed of any change to the NWPs.

A NWP does not grant any property rights or exclusive privileges. Additionally, it does not authorize any injury to the property, rights of others, nor does it authorize interference with any existing or proposed Federal project. Furthermore, it does not obviate the need to obtain other Federal, state, or local authorizations required by law.

Thank you for participating in the regulatory program. If you have any questions, please contact me at 760-602-4837 or via e-mail at Richard.J.Vansant@usace.army.mil. Please complete the customer survey form at <http://per2.nwp.usace.army.mil/survey.html>, which would help me to evaluate and improve the regulatory experience for others.

Sincerely,

A handwritten signature in blue ink that reads "Richard J. Van Sant III". The signature is written in a cursive style with a large "R" and "S".

Richard J. Van Sant III
Senior Project Manager
South Coast Branch

Enclosure(s)

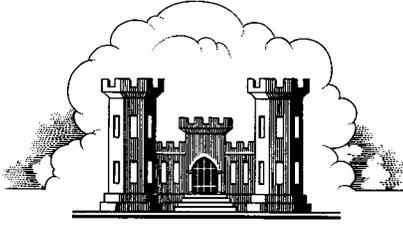
Enclosure 1 – Terms and Conditions

Figure 1 – Regional location

Figure 2 – Site features and limits of grading

Figure 5 – USACE/RWQCB jurisdictional delineation

Grading plans



**LOS ANGELES DISTRICT
US ARMY CORPS OF ENGINEERS**

**CERTIFICATE OF COMPLIANCE WITH
DEPARTMENT OF THE ARMY NATIONWIDE PERMIT**

Permit Number: *SPL-2013-00170-RJV*

Name of Permittee: *Thomas Duffy, San Diego County*

Date of Issuance: *December 13, 2013*

Upon completion of the activity authorized by this permit and the mitigation required by this permit, sign this certificate, and return it by **ONE** of the following methods;

- 1) Email a digital scan of the signed certificate to Richard.J.Vansant@usace.army.mil
- OR**
- 2) Mail the signed certificate to

LOS ANGELES DISTRICT CORPS OF ENGINEERS
REGULATORY DIVISION, CARLSBAD FIELD OFFICE
ATTN: SPL-2013-00170-RJV
5900 LA PLACE COURT, SUITE 100
CARLSBAD, CA 92008

I hereby certify the authorized work and any required compensatory mitigation has been completed in accordance with the NWP authorization, including all general, regional, or activity-specific conditions. Furthermore, if credits from a mitigation bank or in-lieu fee program were used to satisfy compensatory mitigation requirements I have attached the documentation required by 33 CFR 332.3(l)(3) to confirm the appropriate number and resource type of credits have been secured.

Signature of Permittee

Date

Nationwide Permit (NWP) 38 – Cleanup of Toxic and Hazardous Waste terms and conditions.

1. NWP 38 – Cleanup of Toxic and Hazardous Waste. Terms:

Your activity is authorized under NWP 38 – Cleanup of Toxic and Hazardous Waste, subject to the following terms:

38. Cleanup of Hazardous and Toxic Waste. Specific activities required to effect the containment, stabilization, or removal of hazardous or toxic waste materials that are performed, ordered, or sponsored by a government agency with established legal or regulatory authority. Court ordered remedial action plans or related settlements are also authorized by this NWP. This NWP does not authorize the establishment of new disposal sites or the expansion of existing sites used for the disposal of hazardous or toxic waste.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity. (See general condition 31.) (Sections 10 and 404)

Note: Activities undertaken entirely on a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site by authority of CERCLA as approved or required by EPA, are not required to obtain permits under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act.

2. Nationwide Permit General Conditions: The following general conditions must be followed in order for any authorization by an NWP to be valid:

1. **1. Navigation.** (a) No activity may cause more than a minimal adverse effect on navigation.
(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.
(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
2. **Aquatic Life Movements.** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.
3. **Spawning Areas.** Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.
4. **Migratory Bird Breeding Areas.** Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.
6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).
7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.
8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.
9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).
10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.
11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.
12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.
13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.
14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.
15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).
17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.
18. Endangered Species.
 - (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which “may affect” a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.
 - (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.
 - (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have “no effect” on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.
 - (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.
 - (e) Authorization of an activity by a NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take” provisions, etc.) from the U.S. FWS or the NMFS,

The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.
20. Historic Properties.
 - (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.
 - (b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.
 - (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.
 - (d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106

consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.
 - (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.
 - (b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.
23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the

only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.
25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.
26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.
27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The

request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer.

However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large

or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation

activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

3. Regional Conditions for the Los Angeles District:

In accordance with General Condition Number 27, "Regional and Case-by-Case Conditions," the following Regional Conditions, as added by the Division Engineer, must be met in order for an authorization by any Nationwide to be valid:

1. For all activities in waters of the U.S. that are suitable habitat for federally listed fish species, the permittee shall design all road crossings to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed, unless determined to be impracticable by the Corps.
2. Nationwide Permits (NWP) 3, 7, 12-15, 17-19, 21, 23, 25, 29, 35, 36, or 39-46, 48-52 cannot be used to authorize structures, work, and/or the discharge of dredged or fill material that would result in the "loss" of wetlands, mudflats, vegetated shallows or riffle and pool complexes as defined at 40 CFR Part 230.40-45. The definition of "loss" for this regional condition is the same as the definition of "loss of waters of the United States" used for the Nationwide Permit Program. Furthermore, this regional condition applies only within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California. The desert regions in California are limited to four USGS Hydrologic Unit Code (HUC) accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).
3. When a pre-construction notification (PCN) is required, the appropriate U.S. Army Corps of Engineers (Corps) District shall be notified in accordance with General Condition 31 using either the South Pacific Division PCN Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. The PCN Checklist and application form are available at: <http://www.spl.usace.army.mil/regulatory>. In addition, the PCN shall include:
 - a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;
 - b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be

shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings for projects located within the boundaries of the Los Angeles District shall comply with the most current version of the *Map and Drawing Standards for the Los Angeles District Regulatory Division* (available on the Los Angeles District Regulatory Division website at: www.spl.usace.army.mil/regulatory/); and

- c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the project site, and all waters proposed to be avoided on and immediately adjacent to the project site. The compass angle and position of each photograph shall be documented on the plan-view drawing required in subpart b of this regional condition.
4. Submission of a PCN pursuant to General Condition 31 and Regional Condition 3 shall be required for all regulated activities in the following locations:
 - a. All perennial waterbodies and special aquatic sites within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California, excluding the Colorado River in Arizona from Davis Dam to River Mile 261 (northern boundary of the Fort Mojave Indian Tribe Reservation). The desert region in California is limited to four USGS HUC accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).
 - b. All areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council (i.e., all tidally influenced areas - Federal Register dated March 12, 2007 (72 FR 11092)), in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. Examples of EFH habitat assessments can be found at: <http://www.swr.noaa.gov/efh.htm>.
 - c. All watersheds in the Santa Monica Mountains in Los Angeles and Ventura counties bounded by Calleguas Creek on the west, by Highway 101 on the north and east, and by Sunset Boulevard and Pacific Ocean on the south.
 - d. The Santa Clara River watershed in Los Angeles and Ventura counties, including but not limited to Aliso Canyon, Agua Dulce Canyon, Sand Canyon, Bouquet Canyon, Mint Canyon, South Fork of the Santa Clara River, San Francisquito Canyon, Castaic Creek, Piru Creek, Sespe Creek and the main-stem of the Santa Clara River.
 5. Individual Permits shall be required for all discharges of fill material in jurisdictional vernal pools, with the exception that discharges for the purpose of restoration, enhancement, management or scientific study of vernal pools may be authorized under NWP 5, 6, and 27 with the submission of a PCN in accordance with General Condition 31 and Regional Condition 3.
 6. Individual Permits shall be required in Murrieta Creek and Temecula Creek watersheds in Riverside County for new permanent fills in perennial and intermittent watercourses otherwise authorized under NWP 29, 39, 42 and 43, and in ephemeral watercourses for these NWP 14 is used in conjunction with residential, commercial, or industrial developments the 0.1 acre limit would also apply.
 7. Individual Permits (Standard Individual Permit or 404 Letter of Permission) shall be required in San Luis Obispo Creek and Santa Rosa Creek in San Luis Obispo County for bank stabilization projects, and in Gaviota Creek, Mission Creek and Carpinteria Creek in Santa Barbara County for bank stabilization projects and grade control structures.

8. In conjunction with the Los Angeles District's Special Area Management Plans (SAMPs) for the San Diego Creek Watershed and San Juan Creek/Western San Mateo Creek Watersheds in Orange County, California, the Corps' Division Engineer, through his discretionary authority has revoked the use of the following 26 selected NWP's within these SAMP watersheds: 03, 07, 12, 13, 14, 16, 17, 18, 19, 21, 25, 27, 29, 31, 33, 39, 40, 41, 42, 43, 44, 46, 49, and 50. Consequently, these NWP's are no longer available in those watersheds to authorize impacts to waters of the United States from discharges of dredged or fill material under the Corps' Clean Water Act section 404 authority.
9. Any requests to waive the 300 linear foot limitation for intermittent and ephemeral streams for NWP's 29, 39, 40 and 42, 43, 44, 51 and 52 or to waive the 500 linear foot limitation along the bank for NWP 13, must include the following:
 - a. A narrative description of the stream. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characters observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line, or scour marks); a description of the adjacent vegetation community and a statement regarding the wetland status of the associated vegetation community (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information.
 - b. An analysis of the proposed impacts to the waterbody in accordance with General Condition 31 and Regional Condition 3;
 - c. Measures taken to avoid and minimize losses, including other methods of constructing the proposed project; and
 - d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated, in accordance with 33 CFR Part 332.
10. The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

4. Further information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - (a) This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - (b) This permit does not grant any property rights or exclusive privileges.
 - (c) This permit does not authorize any injury to the property or rights of others.
 - (d) This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- (a) Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - (b) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - (c) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - (d) Design or construction deficiencies associated with the permitted work.
 - (e) Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- (a) You fail to comply with the terms and conditions of this permit.
 - (b) The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - (c) Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 330.5 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measure ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. This letter of verification is valid for a period not to exceed two years unless the nationwide permit is modified, reissued, revoked, or expires before that time.
7. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition H below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
8. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished with the terms and conditions of your permit.



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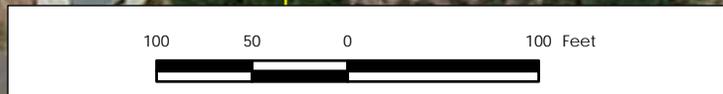


Figure 1
Regional Location
Fallbrook 1C Burn Dump Project



P:\GIS\Fallbrook\FallbrookBurnDump\SiteFeatures.mxd

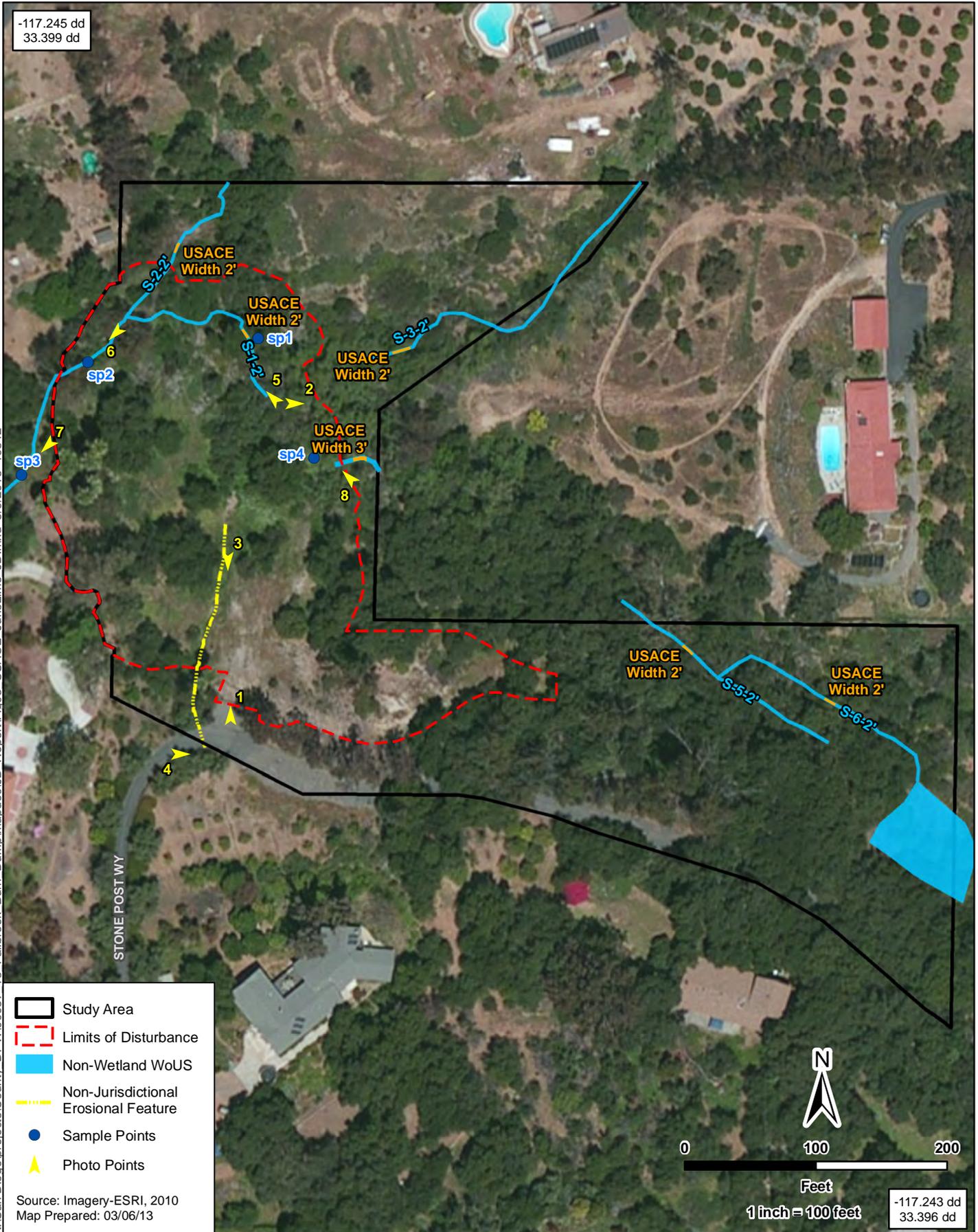
- Legend**
- Proposed Construction Area
 - Approximate Limits of Waste (Ninyo & Moore 2012)
 - Approximate Limits of Grading
 - Parcel Boundary with APN



<p>Site Features and Limits of Grading</p> <p>Fallbrook Burn Dump 1C Stone Post Way San Diego County, California</p>		<p>Figure</p> <p>2</p>
<p>Geosyntec </p> <p>consultants</p>		
San Diego	December 2012	

-117.245 dd
33.399 dd

K:\San Diego\projects\County DPW\00057 13 Fallbrook Burn Dump\mapdoc\JD_Report\Fig05 USACE JurisLims JD.mxd 5/9/2013 19542



- Study Area
- Limits of Disturbance
- Non-Wetland WoUS
- Non-Jurisdictional Erosional Feature
- Sample Points
- Photo Points

Source: Imagery-ESRI, 2010
Map Prepared: 03/06/13

0 100 200
Feet
1 inch = 100 feet

-117.243 dd
33.396 dd



Figure 5
USACE/RWQCB Jurisdictional Delineation
Fallbrook 1C Burn Dump Project

INDEX OF SHEETS

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- 3 TREE REMOVAL PLAN
- 4 EXCAVATION PLAN FOR CLEAN COVER
- 5 EXCAVATION PLAN FOR BURN DEBRIS
- 6 FINAL GRADING PLAN
- 7 CONSTRUCTION DETAILS I
- 8 CONSTRUCTION DETAILS II
- 9 CROSS SECTIONS (WEST - EAST)
- 10 CROSS SECTIONS (NORTH - SOUTH I)
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- 12 FINAL GRADE WITH CONTROL POINTS
- 13 WATER POLLUTION CONTROL-TEMP.
- 14 WATER POLLUTION CONTROL - DETAILS
- 15 TRAFFIC CONTROL PLAN
- 16 PLANTING PLAN - TREES
- 17 PLANTING PLAN - SEEDING
- 18 PLANTING PLAN - PLANTING DETAILS
- 19 IRRIGATION LAYOUT
- 20 IRRIGATION DETAILS

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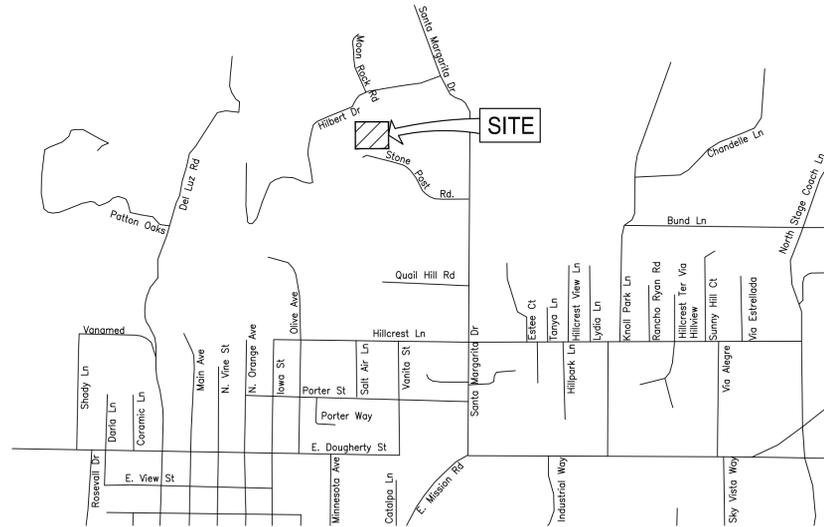
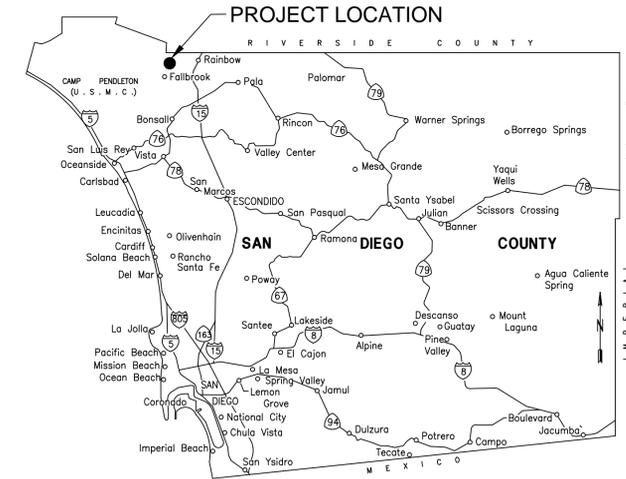
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

COUNTY OF SAN DIEGO, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PLANS FOR CLEAN CLOSURE REMEDIATION OF THE FORMER FALLBROOK 1C BURN DUMP

In the Vicinity of: FALLBROOK, CA

PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



VICINITY MAP
SCALE: 1" = 1,000'

UTILITY ALERT NOTE:

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND UTILITY FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO PERFORMING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. FORTY-EIGHT HOURS BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT AT TELEPHONE 1-800-422-4133.

THE CONTRACTOR MUST ALSO INDIVIDUALLY CONTACT OPERATORS OF GRAVITY SEWER SYSTEMS AND CERTAIN OTHER UTILITIES, WHO ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT.

PROJECT DESCRIPTION:

THIS PROJECT IS TO PERFORM CLEAN CLOSURE REMEDIATION OF A CLOSED BURN DUMP. GENERAL PROJECT SCOPE INCLUDES: CLEARING AND GRUBBING; EXCAVATION AND OFFSITE DISPOSAL OF BURN DEBRIS; REGRADING; AND REVEGETATING THE SITE.

THIS PROJECT WILL REQUIRE ACCESS TO ADJACENT PRIVATE PROPERTIES.

REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE

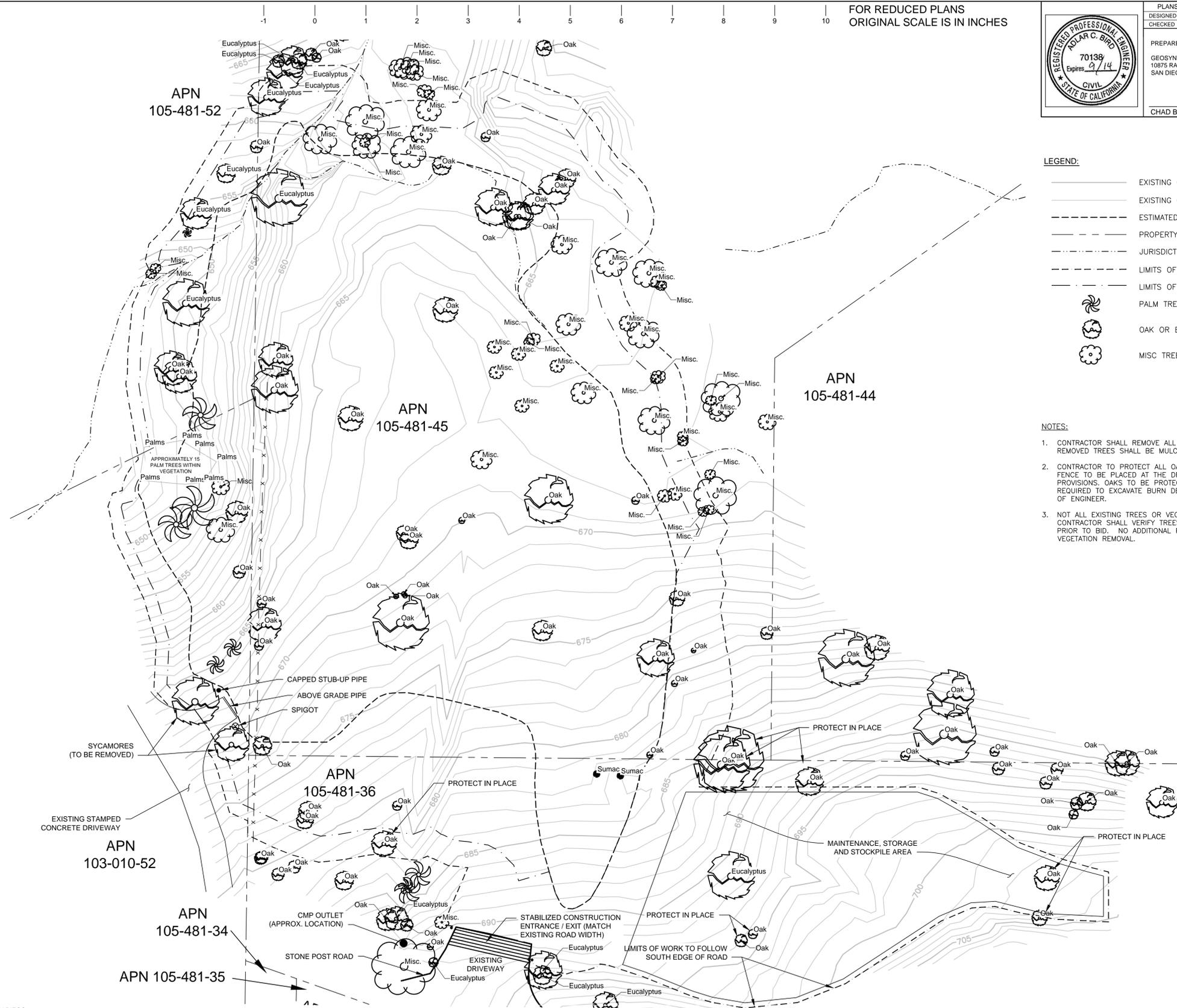
FINAL DESIGN C:\P\PRV\PRV\S\CAD\CADD\SC0281-FALLBROOK\SC0281-00P\ANSET\I_CURRENT SET\SC028101.DWG JANUARY 2013

<p>COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295</p>	RECOMMENDED BY: _____ DATE _____ APPROVED BY: _____ DATE _____ MOHAMAD FAKHRIDDINE, COUNTY ENGINEER	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>													BY APPROVED DATE	COORDINATE INDEX 446 N. 1695 E. CONST. COMPL. FIELD REVISIONS	<p>FORMER FALLBROOK 1C BURN DUMP REMEDIATION</p> <p>TITLE SHEET</p>	SCALE: HOR. <u>N/A</u> VERT. <u>N/A</u> W.A. PWS 00193 R.S. SHEET <u>1</u> OF <u>20</u> SHEETS

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

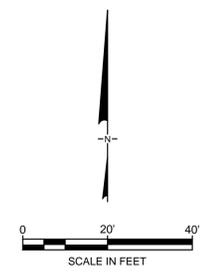


PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



- LEGEND:**
- EXISTING GROUND MAJOR CONTOUR (5')
 - EXISTING GROUND MINOR CONTOUR (1')
 - - - ESTIMATED LIMITS OF WASTE
 - PROPERTY BOUNDARY
 - - - JURISDICTIONAL WETLANDS
 - - - LIMITS OF WORK (1.7 AC)
 - - - LIMITS OF GRADING
 - 🌴 PALM TREE
 - 🌳 OAK OR EUCALYPTUS
 - 🌿 MISC TREE

- NOTES:**
1. CONTRACTOR SHALL REMOVE ALL TREES INSIDE LIMITS OF GRADING. REMOVED TREES SHALL BE MULCHED PER SPECIAL PROVISIONS.
 2. CONTRACTOR TO PROTECT ALL OAKS OUTSIDE LIMITS OF GRADING. ESA FENCE TO BE PLACED AT THE DRIP LINE OF OAKS PER SPECIAL PROVISIONS. OAKS TO BE PROTECTED SHALL ONLY BE REMOVED IF REQUIRED TO EXCAVATE BURN DEBRIS AND WITH WRITTEN APPROVAL OF ENGINEER.
 3. NOT ALL EXISTING TREES OR VEGETATION IS SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY TREES AND VEGETATION TO BE REMOVED PRIOR TO BID. NO ADDITIONAL PAYMENT WILL BE MADE FOR TREE OR VEGETATION REMOVAL.



REVIEWED BY: _____ DATE _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

REFERENCE: THE MARCH 2013 TOPOGRAPHIC SURVEY WAS OBTAINED FROM THE COUNTY OF SAN DIEGO.

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	_____	DATE	_____
APPROVED BY:	_____	DATE	_____
	MOHAMAD FAKHRIDDINE, COUNTY ENGINEER		

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
TREE REMOVAL PLAN**

SCALE: HOR. 1" = 20'	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 3 OF 20 SHEETS	

FINAL DESIGN
C:\P\PRV\PRJ\SCAD\DD\SC0281-FALLBROOK\SC0281-00P\ANSET\1_CURRENT SET\SC0281\03.DWG
JANUARY 2013

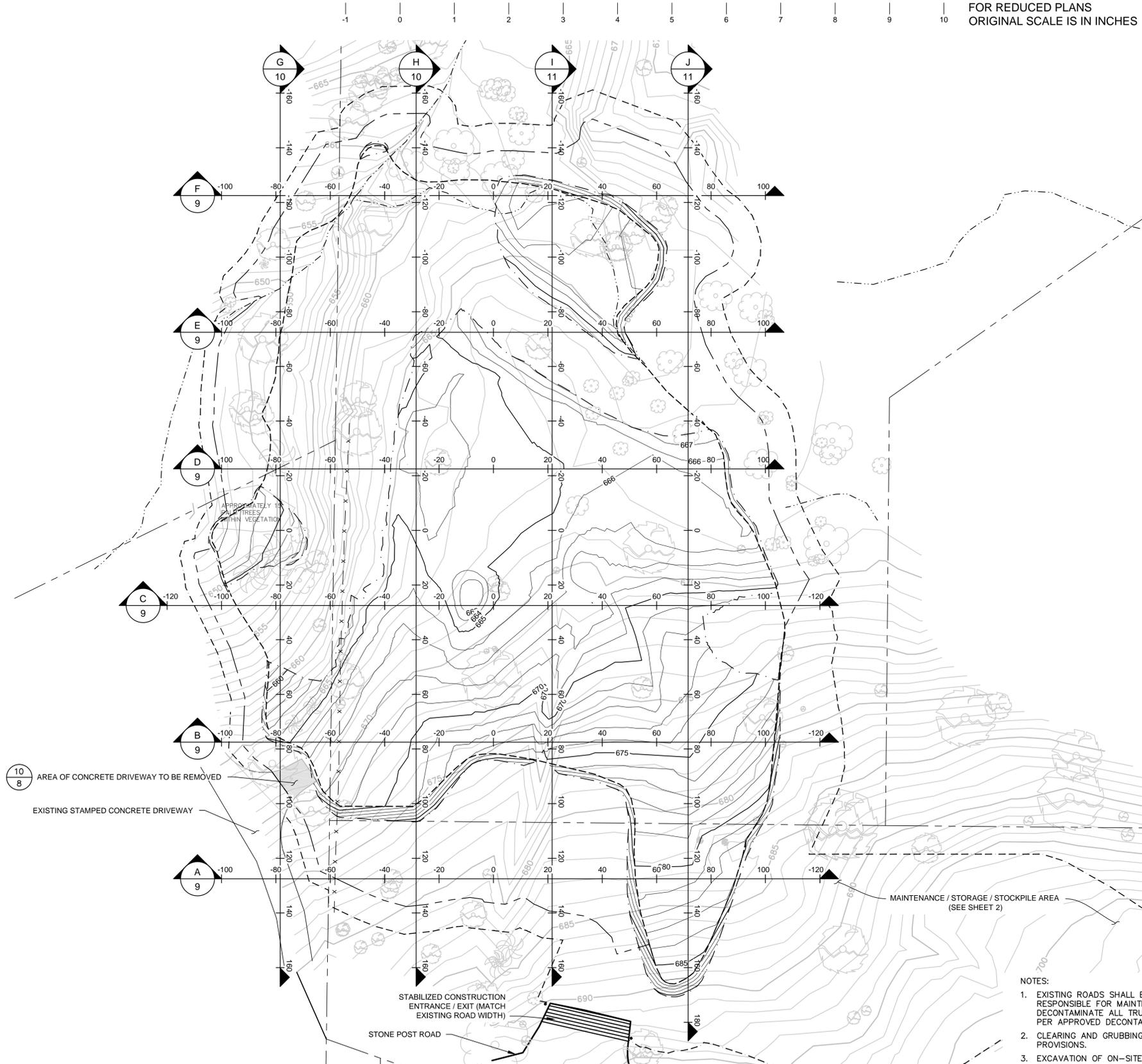
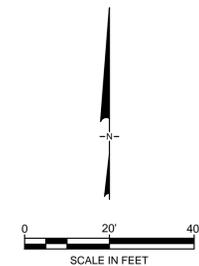
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

LEGEND:

- EXISTING SURFACE MAJOR CONTOUR (5')
- EXISTING SURFACE MINOR CONTOUR (1')
- - - ESTIMATED LIMITS OF WASTE
- - - PROPERTY BOUNDARY
- - - JURISDICTIONAL WETLANDS
- - - LIMITS OF WORK (1.7 AC)
- COVER SOIL EXCAVATION MAJOR CONTOUR (5')
- COVER SOIL EXCAVATION MINOR CONTOUR (1')
- - - LIMITS OF COVER SOIL EXCAVATION
- - - LIMITS OF GRADING



ESTIMATED CLEAN COVER EARTHWORK QUANTITIES

CUT: 2,100 CY
FILL: 0 CY
NET: 2,100 CY CLEAN COVER CUT
IMPORT: 0 CY FILL

NOTES:

1. EXISTING ROADS SHALL BE USED FOR SITE INGRESS AND EGRESS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND DUST CONTROL OF SITE ROADS. CONTRACTOR SHALL PROPERLY DECONTAMINATE ALL TRUCKS AND EQUIPMENT THAT ENCOUNTER BURN DEBRIS PRIOR TO LEAVING SITE PER APPROVED DECONTAMINATION PLAN.
2. CLEARING AND GRUBBING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
3. EXCAVATION OF ON-SITE SOILS SHALL BE ONLY FROM AREAS DESIGNATED ON THIS PLAN OR AS DIRECTED BY ENGINEER.

REVIEWED BY: _____ DATE: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

C:\P\PR\PR\SCAD\GADD\SC0281-FALLBROOK\SC0281-109P\ANSET\1_CURRENT SET\SC0281CON.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
EXCAVATION PLAN FOR CLEAN COVER

SCALE: HOR. 1" = 20'	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 4 OF 20 SHEETS	

FINAL DESIGN

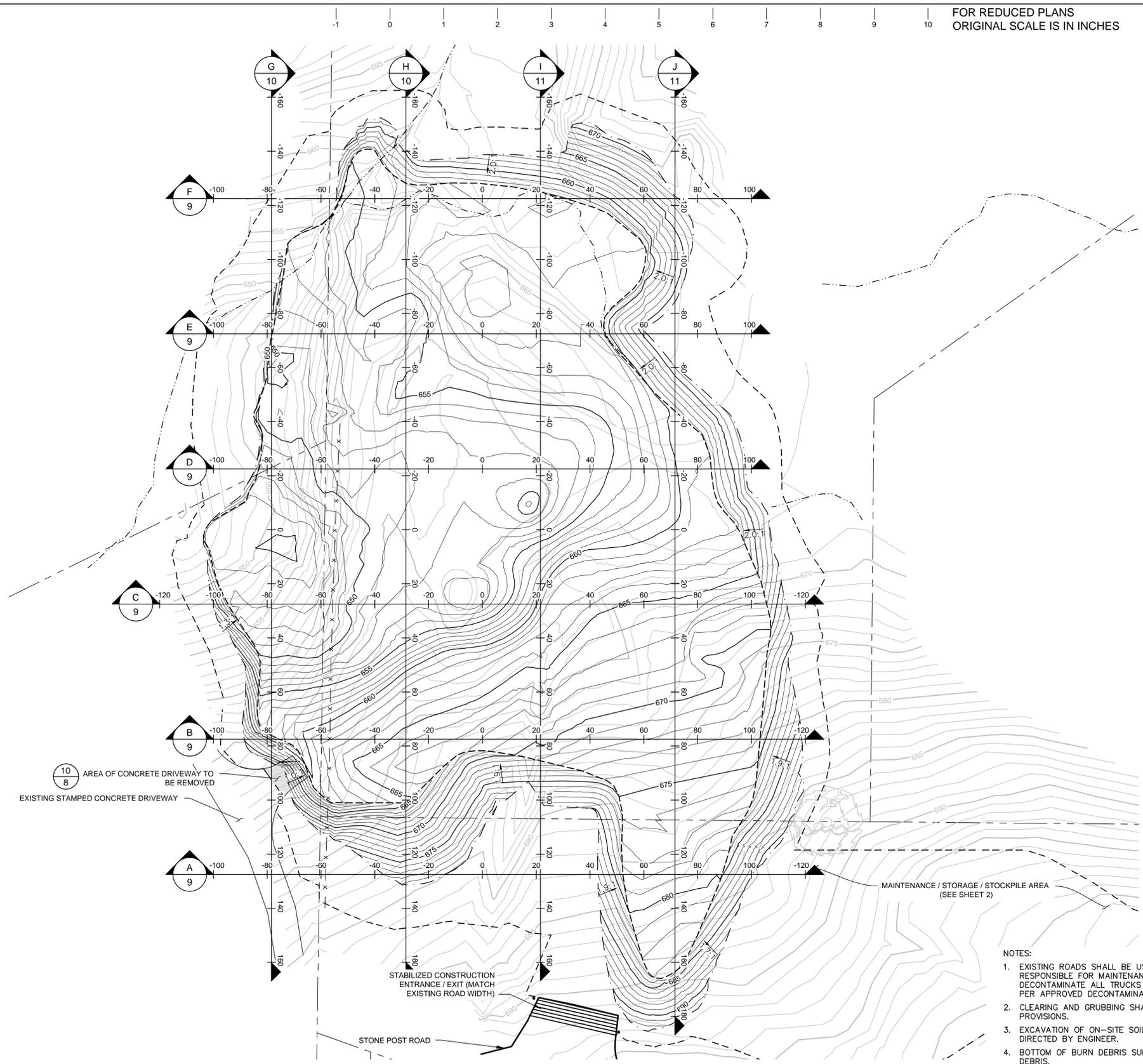
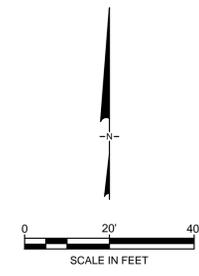
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOZYNTIC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

LEGEND:

	POST CLEAN EXCAVATION MAJOR CONTOUR (5')
	POST CLEAN EXCAVATION MINOR CONTOUR (1')
	LIMITS OF WASTE
	PROPERTY BOUNDARY
	JURISDICTIONAL WETLANDS
	LIMITS OF WORK (1.7 AC)
	BURN DEBRIS EXCAVATION MAJOR CONTOUR (5')
	BURN DEBRIS EXCAVATION MINOR CONTOUR (1')
	LIMITS OF BURN DEBRIS EXCAVATION



10/8 AREA OF CONCRETE DRIVEWAY TO BE REMOVED
EXISTING STAMPED CONCRETE DRIVEWAY

ESTIMATED BURN DEBRIS EARTHWORK QUANTITIES
CUT: 10,500 CY
FILL: 0 CY
NET: 10,500 CY BURN DEBRIS CUT
IMPORT: 0 CY

- NOTES:**
- EXISTING ROADS SHALL BE USED FOR SITE INGRESS AND EGRESS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND DUST CONTROL OF SITE ROADS. CONTRACTOR SHALL PROPERLY DECONTAMINATE ALL TRUCKS AND EQUIPMENT THAT ENCOUNTER BURN DEBRIS PRIOR TO LEAVING SITE PER APPROVED DECONTAMINATION PLAN.
 - CLEARING AND GRUBBING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
 - EXCAVATION OF ON-SITE SOILS SHALL BE ONLY FROM AREAS DESIGNATED ON THIS PLAN OR AS DIRECTED BY ENGINEER.
 - BOTTOM OF BURN DEBRIS SURFACE SHOWN INCLUDES 6 INCHES OF SOIL EXCAVATION BENEATH BURN DEBRIS.

REVIEWED BY: _____ DATE: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

FINAL DESIGN

C:\P\PRV\PRV\SCAD\GADD\SC0281-FALLBROOK\SC0281-109P\ANSET\SET\SC0281\05.DWG

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

FORMER FALLBROOK 1C BURN DUMP REMEDIATION
EXCAVATION PLAN FOR BURN DEBRIS

SCALE: HOR. 1" = 20'	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 5 OF 20 SHEETS	

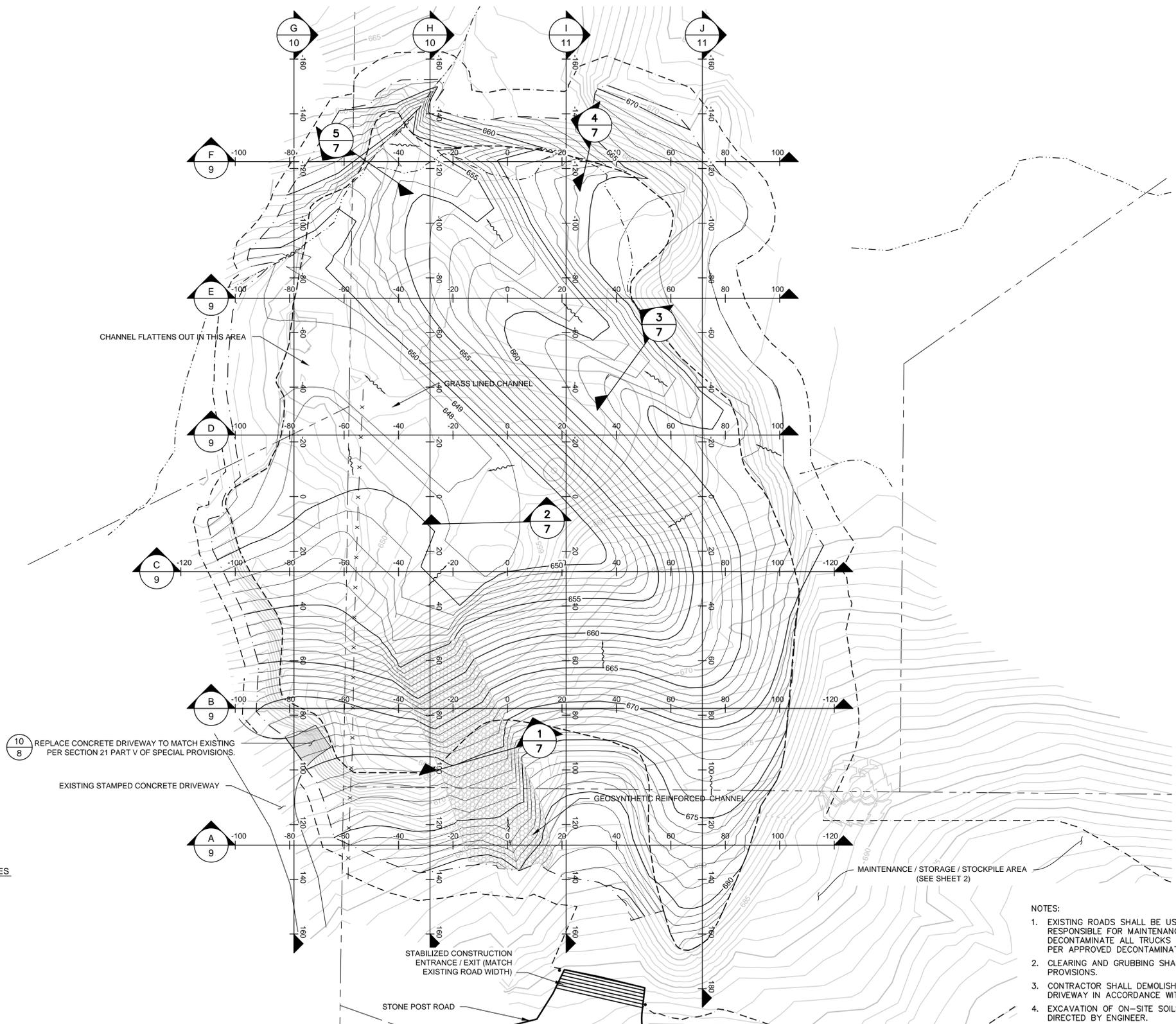
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

LEGEND:

	POST BURN DEBRIS EXCAVATION MAJOR CONTOUR (5')
	POST BURN DEBRIS EXCAVATION MINOR CONTOUR (1')
	ESTIMATED LIMIT OF WASTE
	PROPERTY BOUNDARY
	JURISDICTIONAL WETLAND
	LIMITS OF WORK (1.7 AC)
	FINAL GRADE MAJOR CONTOUR (5')
	FINAL GRADE MINOR CONTOUR (1')
	LIMITS OF GRADING
	PROPOSED SURFACE WATER FLOW DIRECTION
	LIMITS OF GEOSYNTHETIC REINFORCED CHANNEL SLOPE PROTECTION

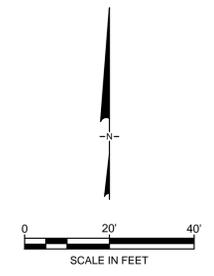


10
8 REPLACE CONCRETE DRIVEWAY TO MATCH EXISTING PER SECTION 21 PART V OF SPECIAL PROVISIONS.

ESTIMATED FINAL GRADING EARTHWORK QUANTITIES

CUT: 2,900 CY
FILL: 3,000 CY
NET: 100 CY FILL
IMPORT: 0 CY FILL

- NOTES:**
- EXISTING ROADS SHALL BE USED FOR SITE INGRESS AND EGRESS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND DUST CONTROL OF SITE ROADS. CONTRACTOR SHALL PROPERLY DECONTAMINATE ALL TRUCKS AND EQUIPMENT THAT ENCOUNTER BURN DEBRIS PRIOR TO LEAVING SITE PER APPROVED DECONTAMINATION PLAN.
 - CLEARING AND GRUBBING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
 - CONTRACTOR SHALL DEMOLISH, DISPOSE DEMOLITION MATERIAL, AND RECONSTRUCT THE CONCRETE DRIVEWAY IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 - EXCAVATION OF ON-SITE SOILS SHALL BE ONLY FROM AREAS DESIGNATED ON THIS PLAN OR AS DIRECTED BY ENGINEER.



REVIEWED BY: _____ DATE: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

FINAL DESIGN C:\P\PRV\PRV\SCAD\CD\SC0281-FALLBROOK\SC0281-109P\ANSET\1_CURRENT SET\SC0281\06L.DWG

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____	DATE _____
APPROVED BY: _____	DATE _____
MOHAMAD FAKHRRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
FINAL GRADING PLAN

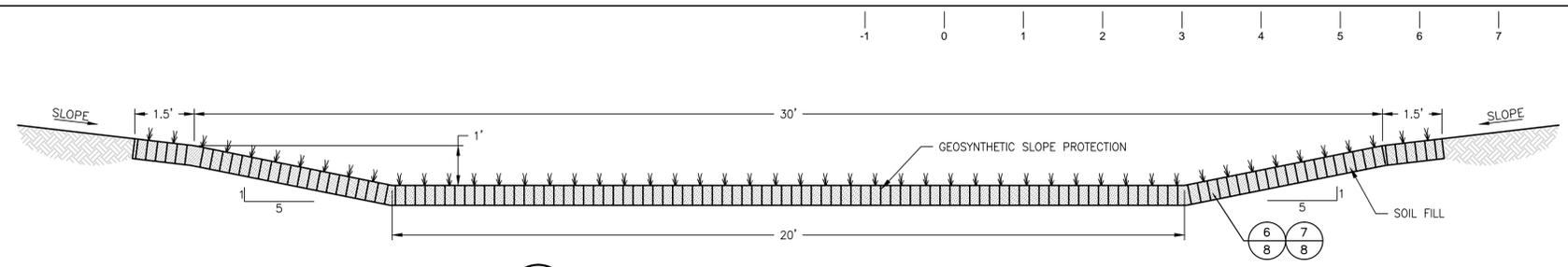
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W.A. PWS 00193	R.S. _____
SHEET 6 OF 20 SHEETS	

JANUARY 2013

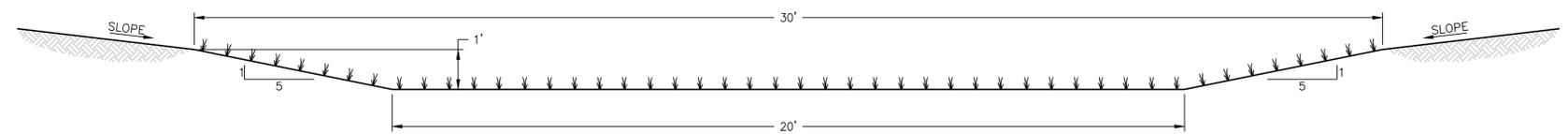
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



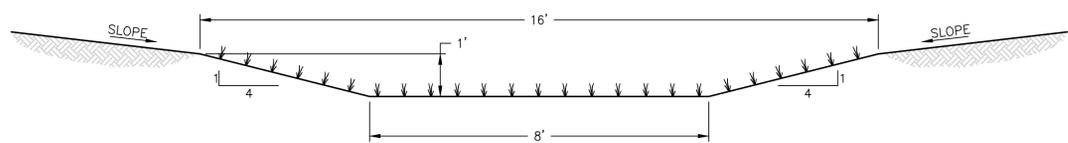
PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



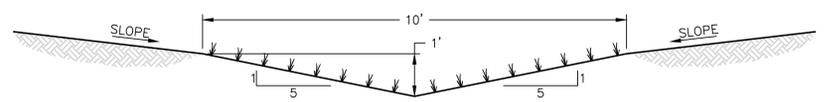
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6 SECTION
REINFORCED GRASS LINED CHANNEL
SCALE: 1" = 2'
XREF: 0281X001



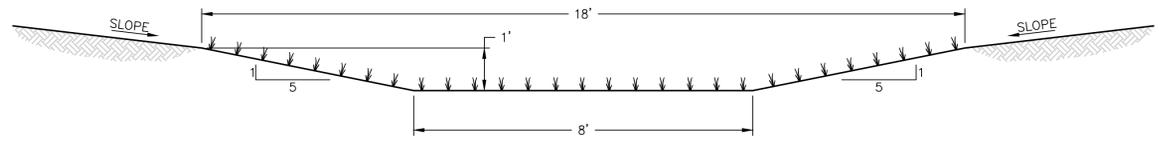
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6 SECTION
GRASS LINED CHANNEL
SCALE: 1" = 2'
XREF: 0281X001



3
6 SECTION
GRASS LINED CHANNEL
SCALE: 1" = 2'
XREF: 0281X001



4
6 SECTION
GRASS LINED V-DITCH
SCALE: 1" = 2'
XREF: 0281X001



5
6 SECTION
GRASS LINED CHANNEL
SCALE: 1" = 2'
XREF: 0281X001

REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE

C:\P\PRV\PRJ\SDCADD\DD\SD081-FALLBROOK\SD081-109P\ANSET\I_CURRENT SET\SD081\007-C08.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
CONSTRUCTION DETAILS I

SCALE: HOR. N/A	VERT. N/A
W.A. PWS 00193	R.S. _____
SHEET 7 OF 20 SHEETS	

FINAL DESIGN

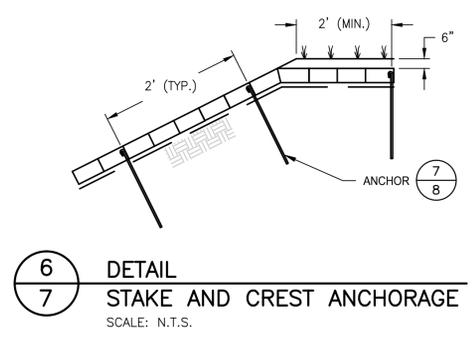
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

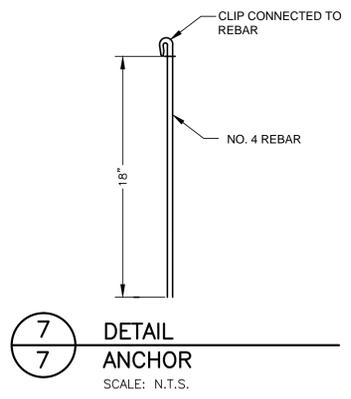
PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	

PREPARED BY:
GEOSYNTEC CONSULTANTS
10875 RANCHO BERNARDO ROAD, STE 200
SAN DIEGO, CA. 92127

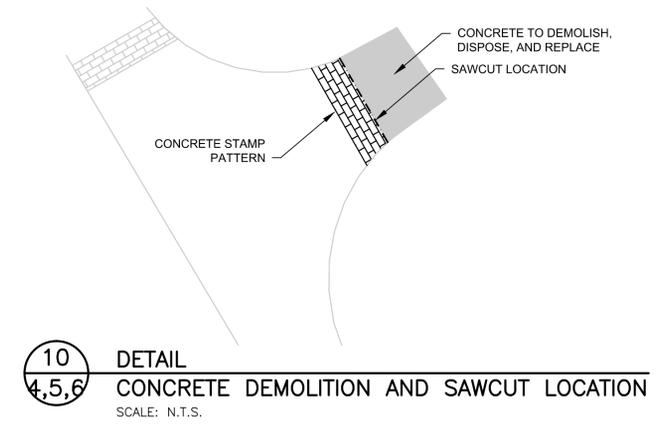
CHAD BIRD RCE 70138 DATE



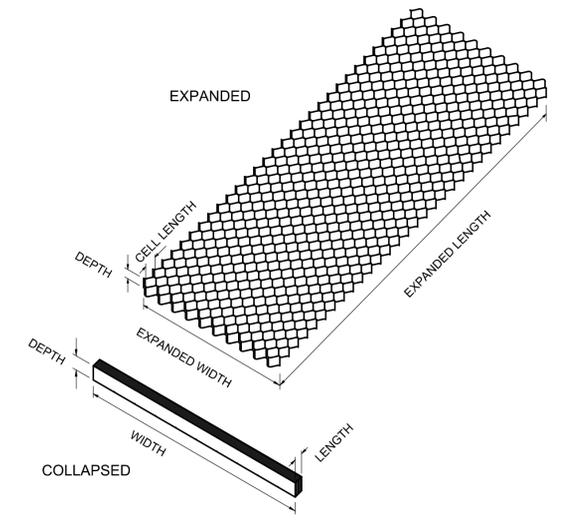
6
7 **DETAIL**
STAKE AND CREST ANCHORAGE
SCALE: N.T.S.



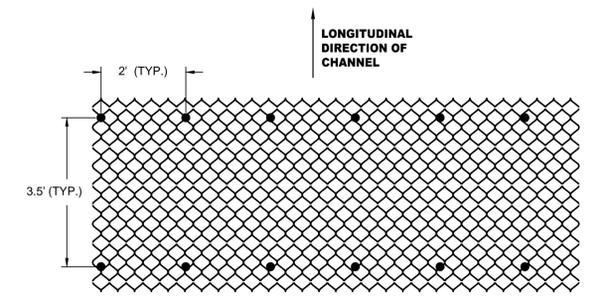
7
7 **DETAIL**
ANCHOR
SCALE: N.T.S.



10
4,5,6 **DETAIL**
CONCRETE DEMOLITION AND SAWCUT LOCATION
SCALE: N.T.S.



8
6 **DETAIL**
GEOSYNTHETIC SLOPE REINFORCEMENT
SCALE: N.T.S.



9
6 **DETAIL**
ANCHOR SPACING
SCALE: N.T.S.

REVIEWED BY: _____ DATE _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

C:\P\PRV\PRJ\SDC\ADD\DD\SC081-FALLBROOK\SC081-109\PLANS\SET\CURRENT SET\SC081\007-C08.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
CONSTRUCTION DETAILS II

SCALE: HOR. N/A VERT. N/A
W.A. PWS 00193 R.S. _____
SHEET 8 OF 20 SHEETS

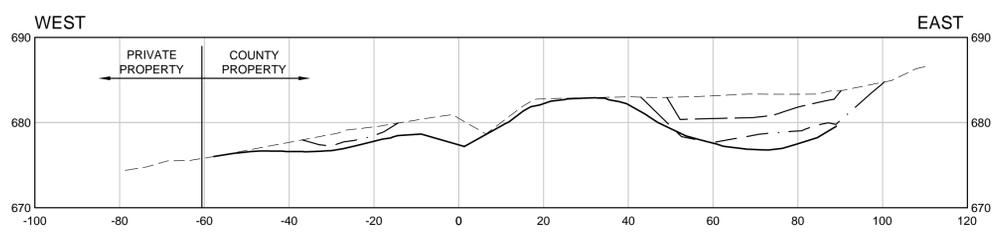
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

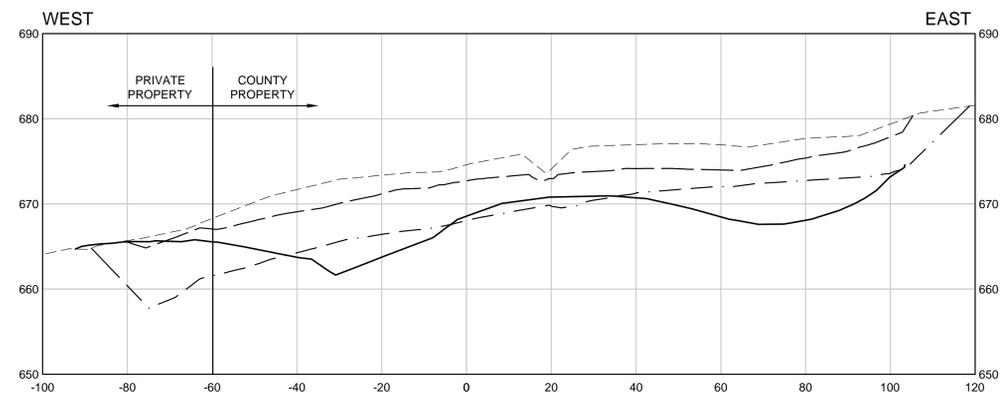


PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

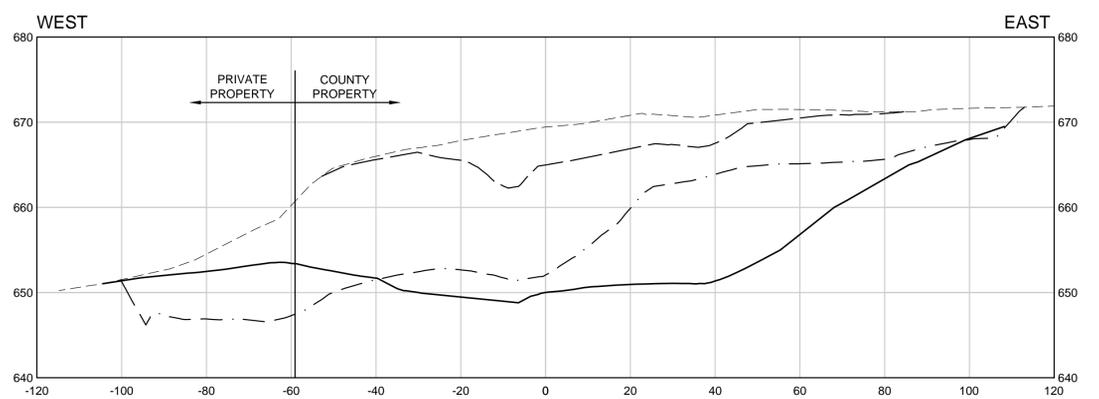
- LEGEND:**
- EXISTING GROUND SURFACE
 - - - CLEAN COVER EXCAVATION SURFACE
 - - - BURN DEBRIS EXCAVATION SURFACE
 - FINAL GRADE SURFACE



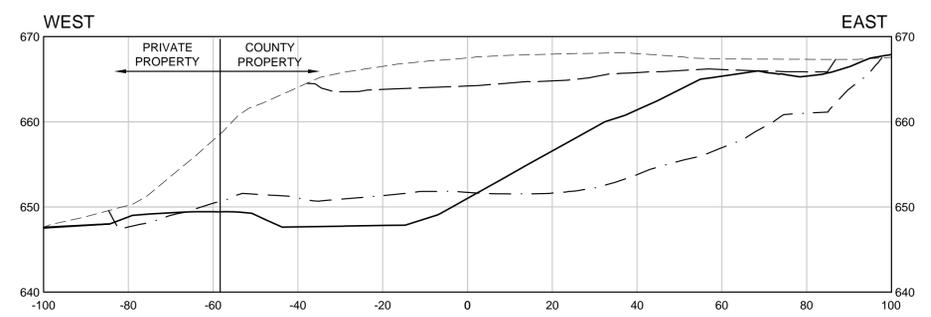
SECTION A



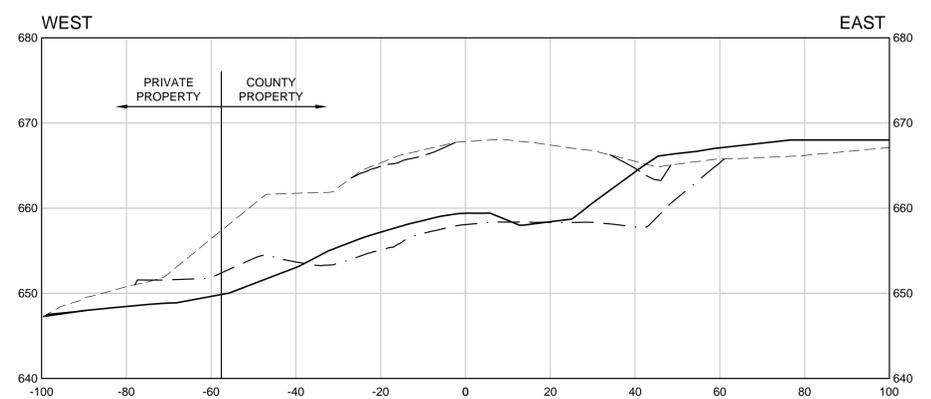
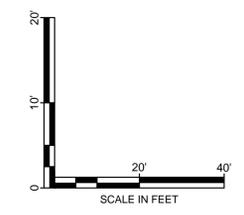
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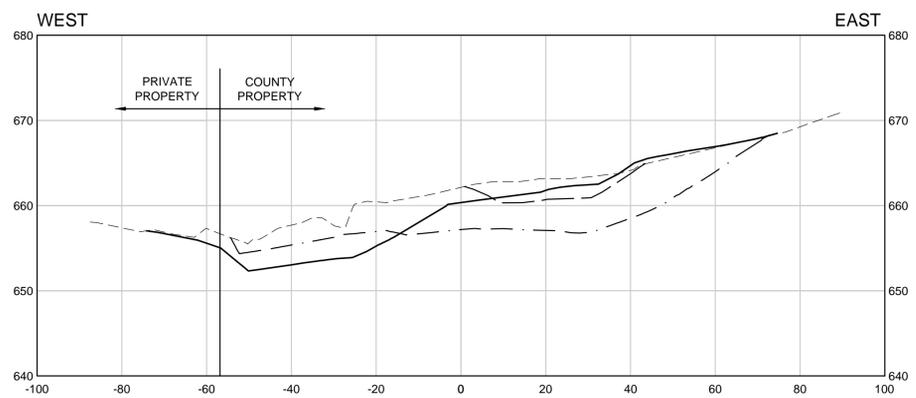
SECTION C



SECTION D



SECTION E



SECTION F

REVIEWED BY: _____ DATE: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
CROSS SECTIONS (WEST - EAST)**

SCALE: HOR. 1" = 20'	VERT. 1" = 10'
W.A. PWS 00193	R.S. _____
SHEET 9 OF 20 SHEETS	

FINAL DESIGN
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JANUARY 2013

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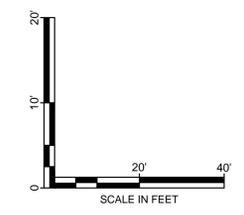
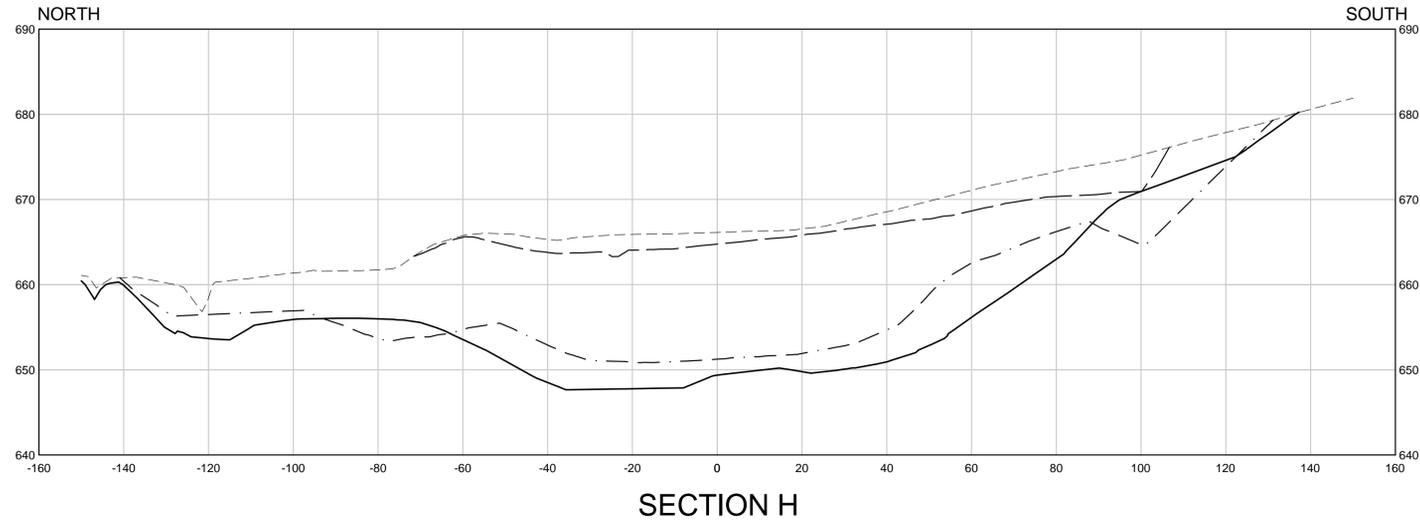
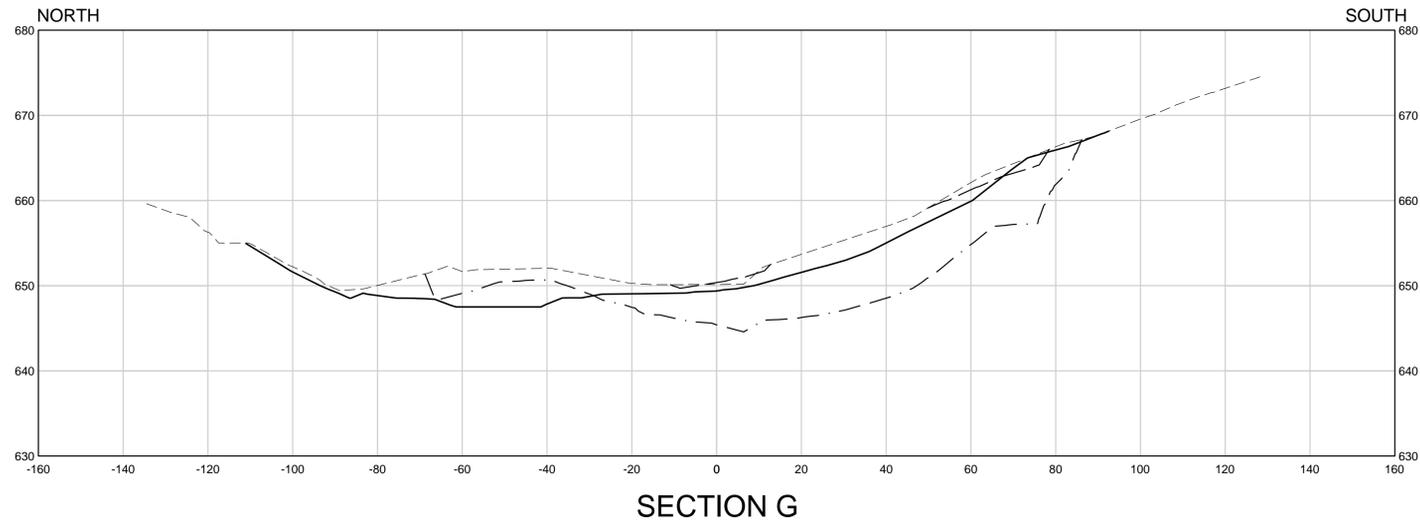
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	

PREPARED BY:
GEOSYNTEC CONSULTANTS
10875 RANCHO BERNARDO ROAD, STE 200
SAN DIEGO, CA. 92127

CHAD BIRD RCE 70138 DATE

- LEGEND:**
- EXISTING GROUND SURFACE
 - _____ CLEAN COVER EXCAVATION SURFACE
 - BURN DEBRIS EXCAVATION SURFACE
 - _____ FINAL GRADE SURFACE



REVIEWED BY: _____ DATE: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

FINAL DESIGN

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JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION**
CROSS SECTIONS (NORTH - SOUTH I)

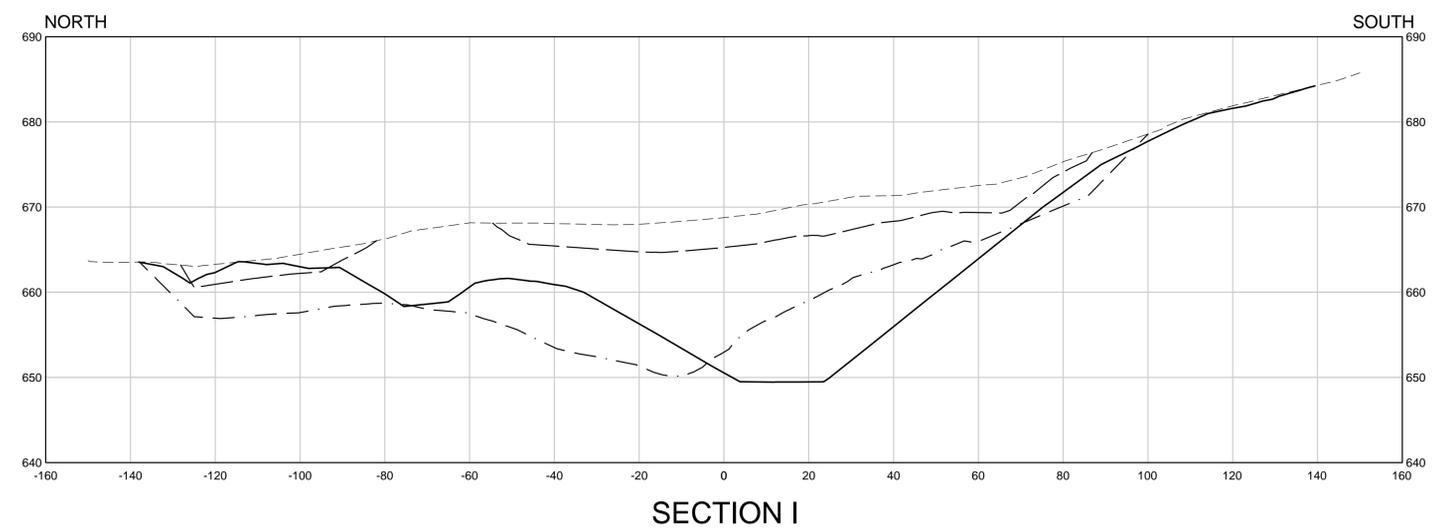
SCALE: HOR. 1" = 20' VERT. 1" = 10'
W.A. PWS 00193 R.S. _____
SHEET 10 OF 20 SHEETS

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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

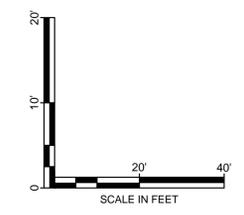
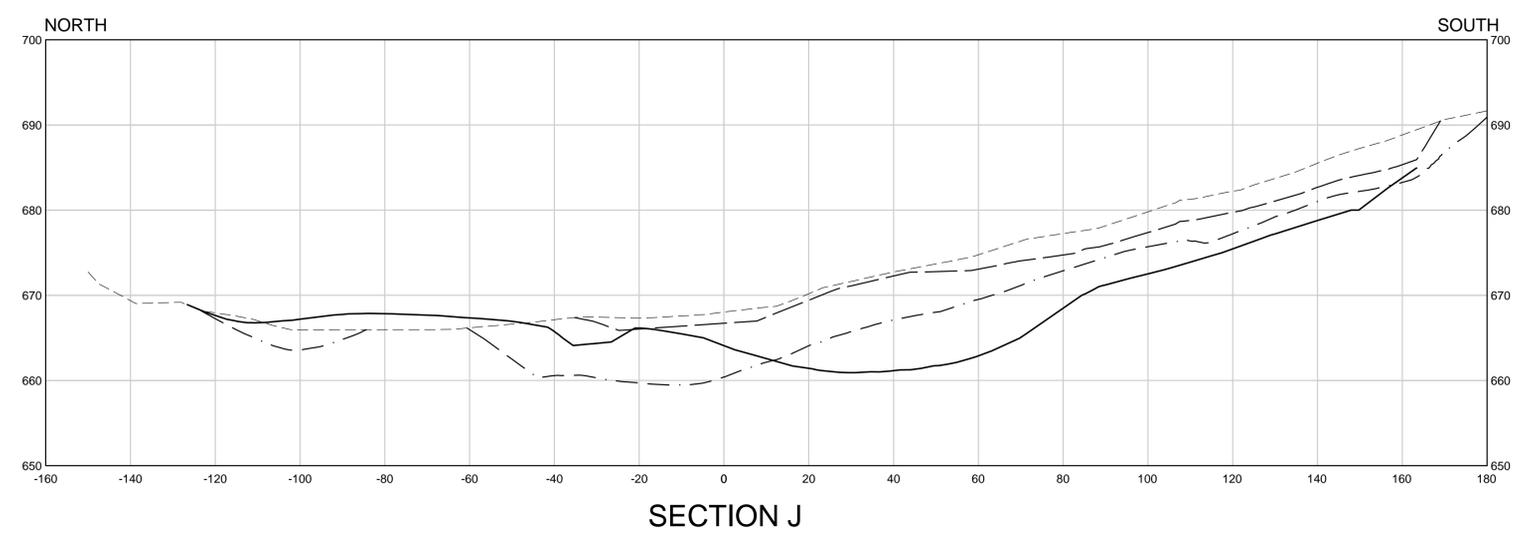


PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



LEGEND:

-----	EXISTING GROUND SURFACE
-----	CLEAN COVER EXCAVATION SURFACE
-----	BURN DEBRIS EXCAVATION SURFACE
-----	FINAL GRADE SURFACE



REVIEWED BY: _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION
DATE: _____

C:\P\PRV\PRJ\SDCADD\SDC081\FALLBROOK\SD081-109\PLANSETS\CURRENT\SET\SD081\G08-C11.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

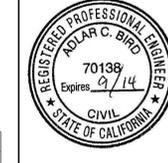
REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

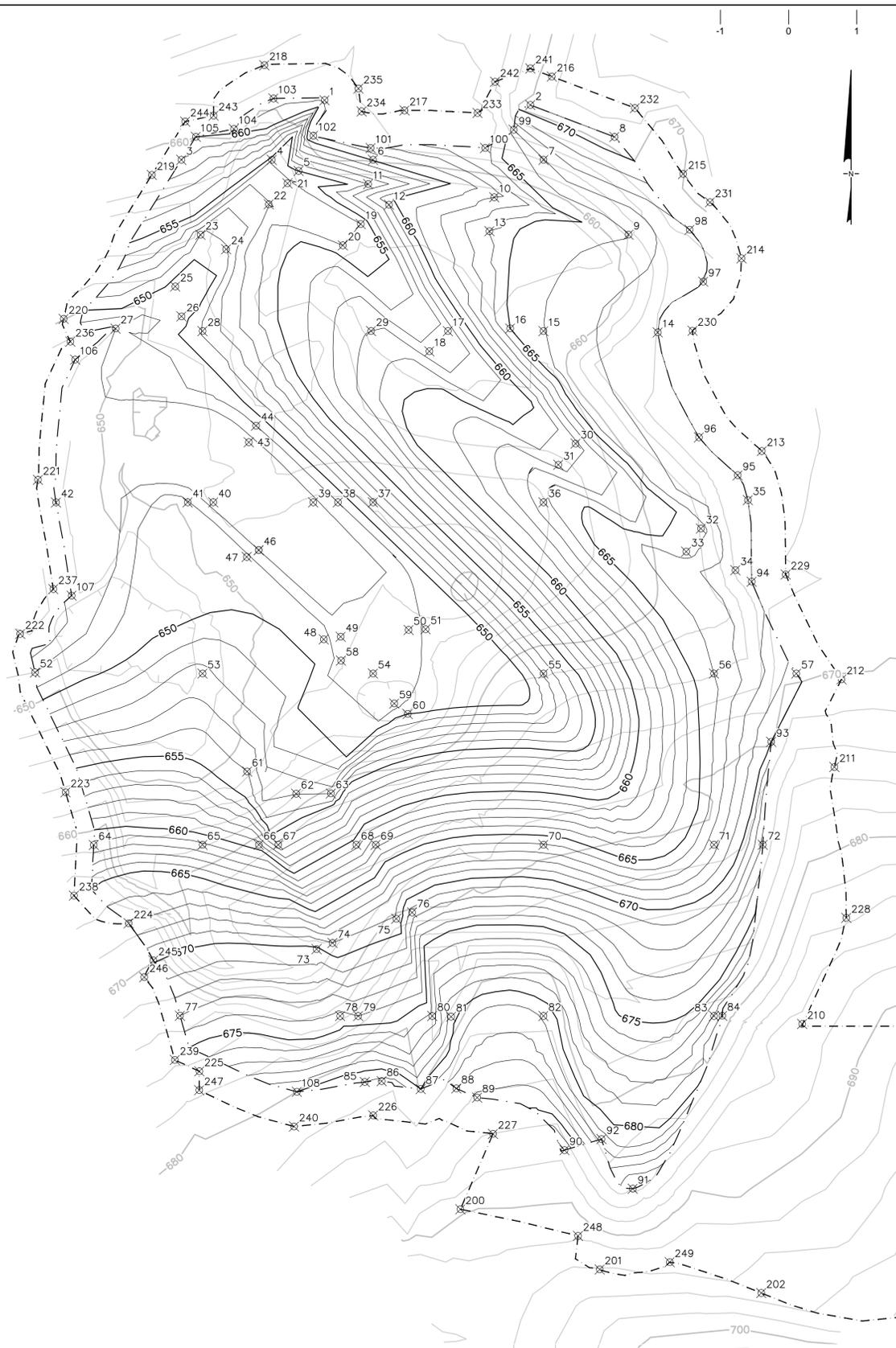
**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION**
CROSS SECTIONS (NORTH - SOUTH II)

SCALE: HOR. 1" = 20'	VERT. 1" = 10'
W.A. PWS 00193	R.S. _____
SHEET 11 OF 20 SHEETS	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



SURVEY CONTROL			
PT#	NORTHING	EASTING	ELEVATION
1	2089972.63	6258071.94	661.34
2	2089971.23	6258132.32	671.00
3	2089955.21	6258029.96	658.91
4	2089955.21	6258056.49	654.03
5	2089951.97	6258064.33	655.00
6	2089955.21	6258086.16	660.09
7	2089955.21	6258136.16	666.95
8	2089954.90	6258162.85	670.00
9	2089933.37	6258161.10	666.00
10	2089944.27	6258121.70	662.00
11	2089948.14	6258084.73	656.00
12	2089942.11	6258090.84	659.00
13	2089934.37	6258120.30	664.00
14	2089904.84	6258169.68	668.00
15	2089905.21	6258136.16	665.94
16	2089905.98	6258126.39	665.00
17	2089905.21	6258108.11	657.25
18	2089899.31	6258102.69	657.28
19	2089936.47	6258082.55	654.00
20	2089930.23	6258077.30	654.00
21	2089948.35	6258061.08	653.81
22	2089942.24	6258055.58	652.93
23	2089933.33	6258035.55	651.00
24	2089929.10	6258043.08	650.82
25	2089918.24	6258028.15	649.62
26	2089909.50	6258029.99	649.48
27	2089905.95	6258010.66	648.00
28	2089905.21	6258036.16	651.05
29	2089905.24	6258085.59	658.00
30	2089872.37	6258145.57	661.68
31	2089866.16	6258140.52	661.68
32	2089847.56	6258182.33	665.57
33	2089840.81	6258178.02	665.57
34	2089835.39	6258192.45	667.60
35	2089855.87	6258196.12	668.00
36	2089855.21	6258136.16	663.58
37	2089855.21	6258086.16	651.76
38	2089855.21	6258075.85	649.00
39	2089855.21	6258068.61	647.67
40	2089855.21	6258039.30	647.50
41	2089855.21	6258031.79	649.10
42	2089855.18	6257993.18	647.50
43	2089872.76	6258049.72	647.50
44	2089877.59	6258051.86	649.00
45	2089841.26	6258052.64	648.00
46	2089841.26	6258052.64	648.00
47	2089839.26	6258049.12	649.26
48	2089815.19	6258071.69	649.46
49	2089815.97	6258076.66	648.14
50	2089817.94	6258096.60	648.16
51	2089818.16	6258101.59	649.27
52	2089805.54	6257987.04	648.00
53	2089805.21	6258036.16	652.16
54	2089805.21	6258086.16	648.43

SURVEY CONTROL			
PT#	NORTHING	EASTING	ELEVATION
55	2089805.21	6258136.16	652.07
56	2089805.21	6258186.16	666.00
57	2089805.20	6258210.32	669.58
58	2089808.99	6258076.75	648.55
59	2089796.47	6258092.39	648.46
60	2089793.41	6258096.34	650.00
61	2089776.63	6258049.23	654.00
62	2089770.12	6258063.62	652.97
63	2089770.20	6258073.81	652.99
64	2089755.16	6258004.23	661.36
65	2089755.21	6258036.16	661.20
66	2089755.21	6258052.64	659.46
67	2089755.21	6258058.36	656.34
68	2089755.21	6258081.23	660.62
69	2089755.21	6258086.95	662.74
70	2089755.21	6258136.16	666.07
71	2089755.21	6258186.16	667.64
72	2089755.23	6258200.47	673.32
73	2089724.76	6258069.60	670.20
74	2089726.55	6258074.27	669.00
75	2089733.62	6258092.99	669.00
76	2089735.46	6258097.63	671.47
77	2089705.29	6258029.55	673.00
78	2089705.21	6258076.50	674.33
79	2089705.21	6258081.80	673.99
80	2089705.21	6258103.53	676.26
81	2089705.01	6258109.06	679.58
82	2089705.21	6258136.16	680.75
83	2089705.21	6258186.16	678.11
84	2089705.26	6258188.60	679.24
85	2089685.94	6258083.74	680.98
86	2089686.20	6258088.69	681.30
87	2089683.90	6258100.15	680.00
88	2089684.07	6258110.59	682.96
89	2089681.39	6258116.70	684.21
90	2089666.04	6258142.33	687.00
91	2089654.79	6258162.35	684.62
92	2089669.28	6258153.17	681.53
93	2089785.29	6258202.95	670.00
94	2089832.04	6258197.22	668.00
95	2089863.11	6258193.12	668.00
96	2089874.18	6258181.76	668.00
97	2089919.65	6258183.02	668.00
98	2089934.80	6258179.02	668.00
99	2089964.01	6258127.41	667.00
100	2089958.68	6258119.04	663.56
101	2089958.67	6258085.47	661.62
102	2089962.27	6258068.66	660.87
103	2089973.15	6258056.95	661.67
104	2089964.24	6258045.35	660.65
105	2089961.94	6258034.18	660.00
106	2089896.89	6257998.80	647.50
107	2089827.95	6257997.76	647.49
108	2089683.09	6258063.83	680.00

SURVEY CONTROL			
PT#	NORTHING	EASTING	ELEVATION
200	2089648.79	6258111.79	689.46
201	2089631.23	6258152.63	694.11
202	2089624.33	6258200.03	694.82
203	2089618.11	6258248.71	NO DATA
204	2089641.00	6258292.75	700.59
205	2089652.96	6258338.67	702.67
206	2089650.86	6258372.14	704.99
207	2089669.15	6258372.14	703.62
208	2089680.50	6258337.48	701.28
209	2089702.24	6258297.71	696.27
210	2089702.88	6258212.03	686.51
211	2089777.93	6258221.47	675.31
212	2089803.51	6258223.56	670.30
213	2089870.19	6258200.20	667.50
214	2089926.43	6258194.24	NO DATA
215	2089951.09	6258177.12	669.93
216	2089979.54	6258138.61	671.18
217	2089969.65	6258095.40	662.94
218	2089982.86	6258054.28	663.32
219	2089950.80	6258021.29	658.57
220	2089908.79	6257995.42	650.08
221	2089861.79	6257987.88	NO DATA
222	2089816.79	6257982.68	646.13
223	2089770.55	6257995.99	656.35
224	2089732.29	6258014.50	667.14
225	2089689.07	6258035.21	676.60
226	2089676.18	6258086.20	682.68
227	2089670.80	6258121.35	686.03
228	2089733.87	6258224.96	683.74
229	2089834.13	6258207.20	667.91
230	2089905.30	6258179.87	666.86
231	2089942.82	6258184.99	670.75
232	2089970.34	6258162.96	672.80
233	2089968.91	6258116.79	663.59
234	2089969.36	6258082.80	661.85
235	2089976.04	6258081.88	662.08
236	2089902.13	6257997.40	647.71
237	2089829.87	6257992.40	646.44
238	2089740.38	6257998.46	664.64
239	2089692.38	6258028.04	675.68
240	2089672.95	6258063.00	681.29
241	2089981.92	6258132.32	668.91
242	2089978.01	6258121.95	665.70
243	2089968.14	6258039.40	661.38
244	2089966.39	6258031.07	660.94
245	2089721.45	6258021.74	669.86
246	2089716.57	6258019.07	670.54
247	2089683.55	6258035.18	677.69
248	2089641.01	6258146.28	691.77
249	2089633.34	6258173.17	692.91

LEGEND

- 730 POST BURN DEBRIS EXCAVATION MAJOR CONTOUR (5')
- 730 POST BURN DEBRIS EXCAVATION EXISTING GROUND MINOR CONTOUR (1')
- 730 PROPOSED GRADING MAJOR CONTOUR (5')
- 730 PROPOSED GRADING MINOR CONTOUR (1')
- LIMIT OF WORK
- LIMIT OF GRADING

REVIEWED BY: _____ DATE _____

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	446 N, 1695 E
CONST. COMPL.	
FIELD REVISIONS	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
FINAL GRADE WITH CONTROL POINTS

SCALE: HOR. N/A VERT. N/A
W.A. PWS 00193 R.S.
SHEET 12 OF 20 SHEETS

FINAL DESIGN

JANUARY 2013

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



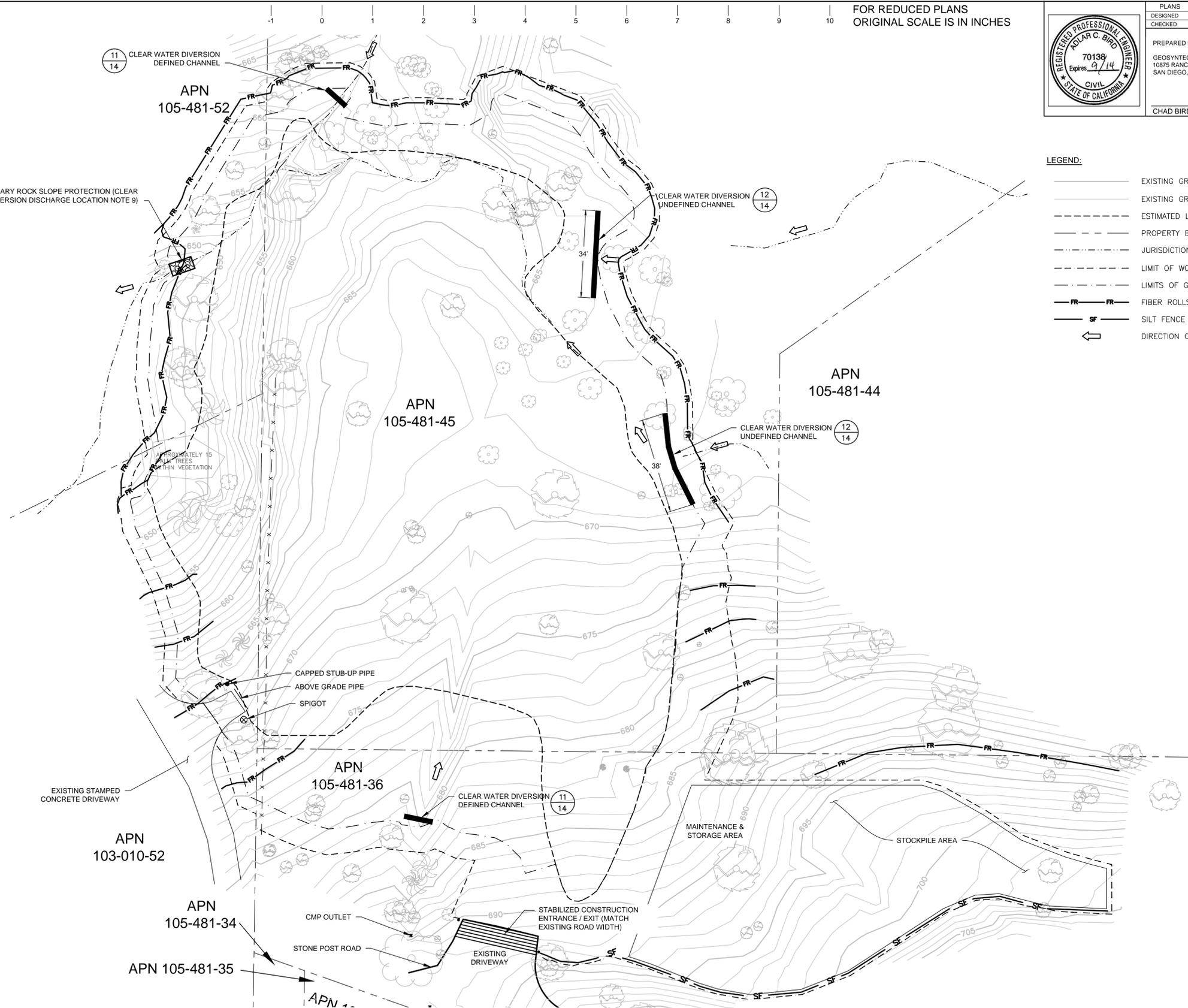
PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL BMPs CALLED OUT IN THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CASQA CONSTRUCTION BMP MANUAL.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO START OF CONSTRUCTION. SEE CASQA TC-1.
3. INSTALL FIBER ROLL WHEN FEASIBLE DUE TO CONSTRUCTION PHASING. SEE CASQA SE-05 (INSTALL FIBER ROLLS ALONG CONTOURS).
4. BONDED FIBER MATRIX (BFM) TO BE USED FOR TEMPORARY STABILIZATION ON INACTIVE AREAS. SEE CASQA EC-03. INACTIVE AREAS ARE DEFINED AS AREAS THAT WILL NOT BE GRADED OR WORKED FOR 10 DAYS OR GREATER.
5. PERMANENTLY STABILIZE AREAS WHERE CONSTRUCTION IS COMPLETE PER FINAL GRADING PLANS.
6. LOCATIONS OF SOLID WASTE, PORTABLE TOILETS, VEHICLE FUELING SERVICE, AND STORAGE SHALL BE PROTECTED PER CASQA WM-05, WM-09, NS-09, AND NS-10. MINIMIZE THE STORAGE OF EQUIPMENT TO ESSENTIAL EQUIPMENT ONLY. STORAGE, MAINTENANCE, AND FUELING OF OVER THE ROAD HAUL/DUMP TRUCKS AND/OR PERSONAL VEHICLES IS NOT ALLOWED.
7. STORM WATER RUN ON SHALL BE DIVERTED AROUND THE SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
8. SOIL STOCKPILES MUST BE COVERED WHEN NOT IN USE PER CONSTRUCTION GENERAL PERMIT.
9. TEMPORARY ROCK SLOPE PROTECTION SHALL BE 10-FOOT WIDE BY 10-FOOT LONG AND 3-FEET THICK. ROCK SIZE SHALL BE 1/4 TON.

LEGEND:

- EXISTING GROUND MAJOR CONTOUR (5')
- EXISTING GROUND MINOR CONTOUR (1')
- - - ESTIMATED LIMITS OF WASTE
- - - PROPERTY BOUNDARY
- - - JURISDICTIONAL WETLANDS
- - - LIMIT OF WORK (1.7 AC)
- - - LIMITS OF GRADING
- FR FR FIBER ROLLS SE-05
- SF SF SILT FENCE
- ← DIRECTION OF FLOW



REVIEWED BY: _____ DATE _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

C:\P\PRV\PRV\SCAD\ADD\SC0281-FALLBROOK\SC0281-00P\ANSET\1_CURRENT SET\SC0281C1.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



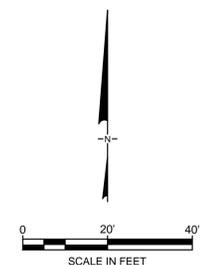
RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
WATER POLLUTION CONTROL-TEMP.

SCALE: HOR. 1" = 20'	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 13 OF 20 SHEETS	

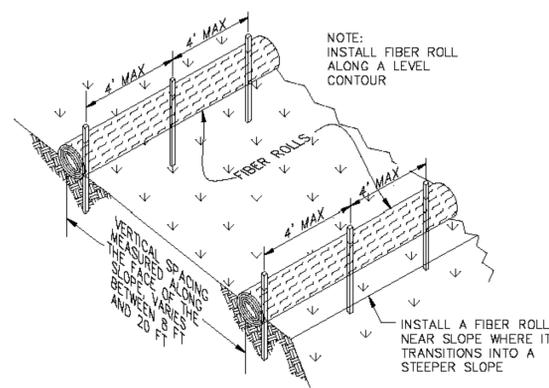


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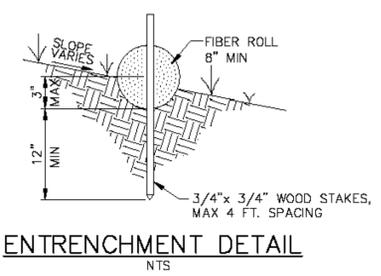
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



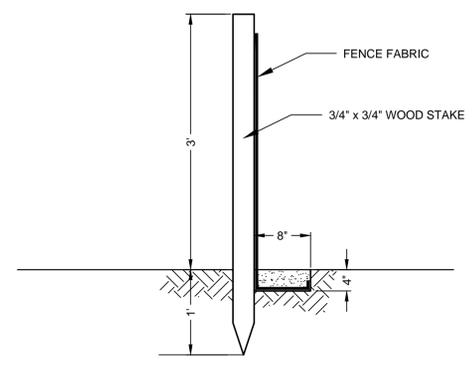
PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE



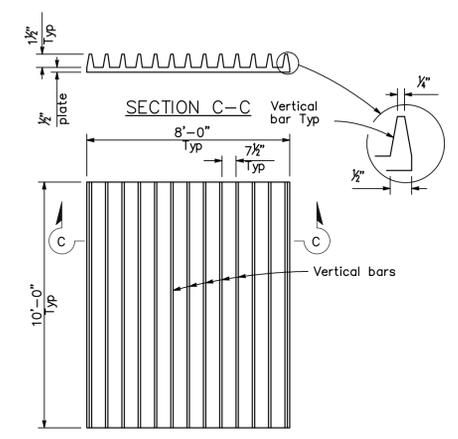
TYPICAL FIBER ROLL INSTALLATION
NTS



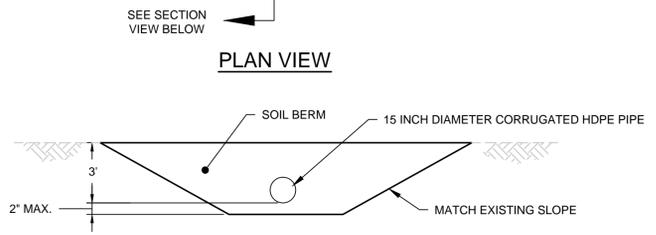
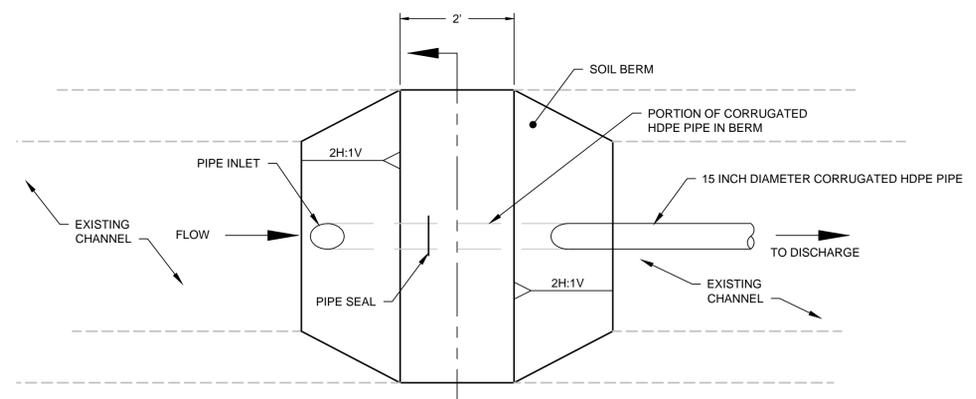
ENTRENCHMENT DETAIL
NTS



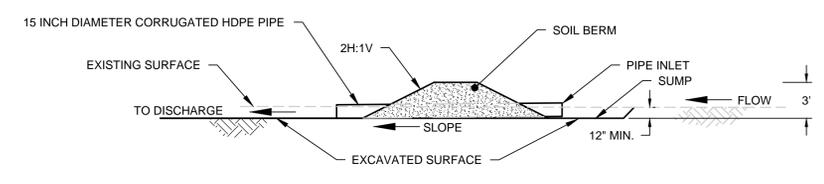
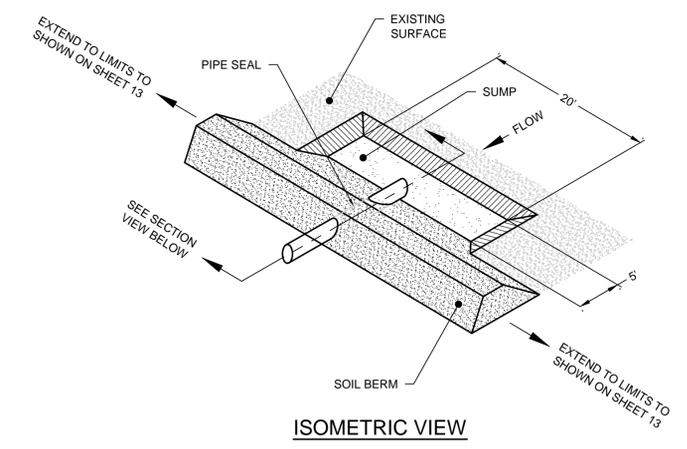
SILT FENCE - SIDE VIEW
N.T.S.



**TYPICAL CORRUGATED STEEL
PANEL CONSTRUCTION
ENTRANCE DETAIL**
N.T.S.



11 **13** **DETAIL**
CLEAR WATER DIVERSION - DEFINED CHANNEL
SCALE: N.T.S.
XREF:



12 **13** **DETAIL**
CLEAR WATER DIVERSION - UNDEFINED CHANNEL
SCALE: N.T.S.
XREF:

REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE

C:\P\PRV\PRJ\SD\CAD\DD\SC0281-FALLBROOK\SC0281-100\PLANS\SET5\CURRENT SET\SC0281CH.DWG

FINAL DESIGN

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

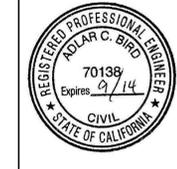
COORDINATE INDEX
446 N. 1695 E.
CONST. COMPL.
FIELD REVISIONS

**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
WATER POLLUTION CONTROL - DETAILS**

SCALE: HOR. N/A	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 14 OF 20 SHEETS	

JANUARY 2013

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED	CB	
CHECKED	SF	
PREPARED BY:		
GEOSYNTEC CONSULTANTS 10875 RANCHO BERNARDO ROAD, STE 200 SAN DIEGO, CA. 92127		
CHAD BIRD	RCE 70138	DATE

- NOTES:
1. CONTRACTOR SHALL NOT QUEUE TRUCKS ALONG THE HAUL ROUTE.



W20-1 "ROAD WORK AHEAD" SIGN



W08-6 "TRUCK CROSSING" SIGN



C9A "FLAGMAN AHEAD" SIGN



W3-4 "BE PREPARED TO STOP" SIGN



G20-2 "END ROAD WORK" SIGN



SIGN LOCATION



FLAGMAN LOCATION



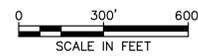
TRUCK TRAFFIC

TRUCK / HAUL ROUTE
TRUCKS LEAVE SITE BY GOING EASTBOUND ON STONE POST ROAD, TURN RIGHT (SOUTH) ONTO SANTA MARGARITA DR., TURN LEFT (EAST) ONTO HILLCREST LN., TURN RIGHT (SOUTH) ONTO N. STAGE COACH LN.

TRAFFIC CONTROL PLAN

STONE POST ROAD & SANTA MARGARITA DR.:	FLAGGING OPERATION FOR HAULING ROUTE DESIGN SPEED: 40 MPH
SANTA MARGARITA DR. & HILLCREST LN.:	FLAGGING OPERATION FOR HAULING ROUTE DESIGN SPEED: 40 MPH (Santa Margarita Dr.) 35 MPH (Hillcrest Ln.)
HILLCREST LN. & N. STAGE COACH LN.:	FLAGGING OPERATION FOR HAULING ROUTE DESIGN SPEED: 35 MPH

BASEMAP IMAGE FROM GOOGLE.COM MAPS



REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY:	DATE
APPROVED BY:	DATE
MOHAMAD FAKHRRIDDINE, COUNTY ENGINEER	

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

**FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
TRAFFIC CONTROL PLAN**

SCALE: HOR. N/A	VERT. N/A
W.A. PWS 00193	R.S.
SHEET 15 OF 20 SHEETS	

FINAL DESIGN

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JANUARY 2013

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

PLANS	BY	DATE
DESIGNED	TC	
CHECKED	AC	

PREPARED BY:
CHERRY ENGINEERING
12721 POWAY ROAD
POWAY, CA. 92064

THOMAS CHERRY RLA 3660 DATE



- OPEN OAK WOODLAND 0.03 AC
- 1 QUE AGR 15 GAL
 - 2 SAM MEX 1 GAL
 - 1 MAL LAU 1 GAL

- OAK RIPARIAN WOODLAND (TYP.) 0.37 AC
- 5 PLA RAC 15 GAL
 - 5 POP FRE 5 GAL
 - 1 QUE AGR 24" BOX
 - 6 QUE AGR 15 GAL
 - 4 QUE AGR 5 GAL
 - 30 SAL GOO 1 GAL
 - 24 SAL LAS 1 GAL
 - 2 SAM MEX 1 GAL
 - 73 BAC SAL 1 GAL
 - 17 ART DOU 1 GAL
 - 9 ART PAL 1 GAL
 - 17 BAC EMO 1 GAL
 - 25 BAC PIL 1 GAL
 - 17 BAC SAR 1 GAL
 - 34 MIM AUR 1 GAL
 - 5 PRU ILI 1 GAL
 - 9 RIB IND 1 GAL
 - 42 ROS CAL 1 GAL
 - 42 RUB URS 1 GAL
 - 17 VIT GIR 1 GAL
- Install container plants per L1 and L2 of the latest edition of the SDRSD Typical. Place all Tree species identified container plants per plan. Shrub understory plants shall be spotted randomly by Engineer.

APN 105-481-44

SEE SHEET 18 FOR SAMPLE PLANTING LAYOUT IN THIS AREA

- OPEN OAK WOODLAND 0.89 AC
- 5 QUE AGR 24" BOX
 - 10 QUE AGR 15 GAL
 - 15 QUE AGR 5 GAL
 - 6 MAL LAU 1 GAL
 - 8 SAM MEX 1 GAL
- Install container plants per L1 and L2 of the latest edition of the SDRSD Typical. Place all Tree species identified container plants per plan.

APN 105-481-52

APN 105-481-45

APN 105-481-35

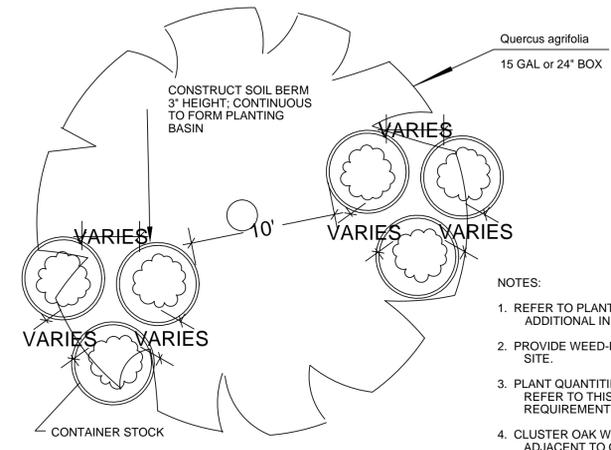
APN 103-010-52

- OPEN OAK WOODLAND 0.28 AC
- 2 ARC CAL 24" BOX
 - 2 CER MIC 24" BOX
 - 2 QUE AGR 24" BOX
 - 2 QUE AGR 15 GAL
 - 11 QUE AGR 5 GAL
 - 3 MAL LAU 1 GAL
 - 2 SAM MEX 1 GAL
- Install container plants per L1 and L2 of the latest edition of the SDRSD Typical. Place all Tree species identified container plants per plan.

LEGEND
- - - JURISDICTIONAL WETLANDS

- PLANTING NOTES:
- APPLY A SYSTEMIC HERBICIDE, WHERE WEEDS ARE PRESENT, PER MANUFACTURER'S SPECIFICATIONS AND THE SPECIAL PROVISIONS.
 - ALL NON-NATIVE VEGETATION (AS DETERMINED BY THE ENGINEER) INCLUDING THEIR STUMPS MUST BE CLEARED AND REMOVED FROM THE SITE PRIOR TO PLANTING OR SEEDING.
 - CONTAINER PLANT BACKFILL SHALL BE 100% SITE SOIL.
 - CONTRACTOR SHALL MAINTAIN ALL PLANTING WORK FOR A PERIOD OF 120 CONTINUOUS CALENDAR DAYS (PLANT ESTABLISHMENT PERIOD). THE 120 DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY FOLLOWING THE FINAL ACCEPTANCE OF THE INSTALLATION. ALL SITE PREPARATION SHALL BE COMPLETED AND APPROVED BY THE ENGINEER PRIOR TO INITIATING PLANTING.
 - TREE PLANT LOCATIONS SHALL BE LOCATED PER THESE PLANS. ONCE ALL THE CONTAINER PLANTS HAVE BEEN SPOTTED IN PLACE, THE CONTRACTOR SHALL ACQUIRE FINAL APPROVAL FROM THE ENGINEER PRIOR TO EXCAVATING PLANTING HOLES.
 - SHRUB PLANT LOCATIONS SHALL BE FLAGGED BY THE ENGINEER PRIOR TO CONTRACTOR EXCAVATING PLANTING HOLES.
 - CONTAINER PLANTS SHALL BE PLANTED PER DETAIL(S), AND SHALL BE WATERED THOROUGHLY IMMEDIATELY AFTER BEING PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS.
 - A DRIP IRRIGATION SYSTEM SHALL BE EXTENDED TO CONTAINER PLANTS WITHIN ALL HABITAT TYPES. IRRIGATION SYSTEM POC SHALL TAP OFF OF EXISTING SYSTEM NEAR HOSE BIB AS SHOWN ON THE PLAN. SEE SHEET 19.

CONTAINER SYMBOL	STOCK BOTANICAL NAME	COMMON NAME	SIZE	SPACING	TOTAL QUANTITY
TREES					
24	CER MIC	Cercidium microphyllum	Palo Verde	24" BOX	2
	PLA RAC	Platanus racemosa	Western Sycamore	15 GAL.	5
	POP FRE	Populus fremontii	Fremont Cottonwood	5 GAL.	9
	QUE AGR	Quercus agrifolia	Coast Live Oak	24" BOX	8
	QUE AGR	Quercus agrifolia	Coast Live Oak	15 GAL.	19
	QUE AGR	Quercus agrifolia	Coast Live Oak	5 GAL.	30
	SAL GOO	Salix gooddingii	Black Willow	1 GAL.	30
	SAL LAS	Salix lasiolepis	Arroyo Willow	1 GAL.	24
	BAC SAL	Baccharis salicifolia	Mule Fat	1 GAL.	73
	MAL LAU	Malosma laurina	Laural Sumac	1 GAL.	10
	SAM MEX	Sambucus mexicanus	Mexican Elderberry	1 GAL.	14
SHRUBS					
	ART DOU	Artemisia douglasiana	Mugwort	1 GAL.	17
	ART PAL	Artemisia palmeri	Sagewort	1 GAL.	9
	BAC EMO	Baccharis emoryi	Emory's Baccharis	1 GAL.	17
	BAC PIL	Baccharis pilularis	Coyote Brush	1 GAL.	25
	BAC SAR	Baccharis sarothroides	Broom Baccharis	1 GAL.	17
	MIM AUR	Mimulus aurantiacus	Sticky Monkey Flower	1 GAL.	34
	PRU ILI	Prunus ilicifolia	Hollyleaf Cherry	1 GAL.	5
	RIB IND	Ribes indecorum	Winter Current	1 GAL.	9
	ROS CAL	Rosa californica	California Rose	1 GAL.	42
	RUB URS	Rubus ursinus	Blackberry	1 GAL.	42
	VIT GIR	Vitis girdiana	California Grape	1 GAL.	17



- NOTES:
- REFER TO PLANTING PLAN FOR ADDITIONAL INFORMATION.
 - PROVIDE WEED-FREE ZONE AROUND PLANTING SITE.
 - PLANT QUANTITIES VARIES BY SPECIES. REFER TO THIS PLANTING PLAN FOR SPACING REQUIREMENTS.
 - CLUSTER OAK WOODLAND UNDERSTORY SPECIES ADJACENT TO OAK TREES



PLANTING PLAN

REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE

C:\PDRIVE\PRJ\SCAD\00\00\00\FALLBROOK\SC0281-09\PLANS\SET\16-09\PLANS\SET\16-C20.DWG

JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



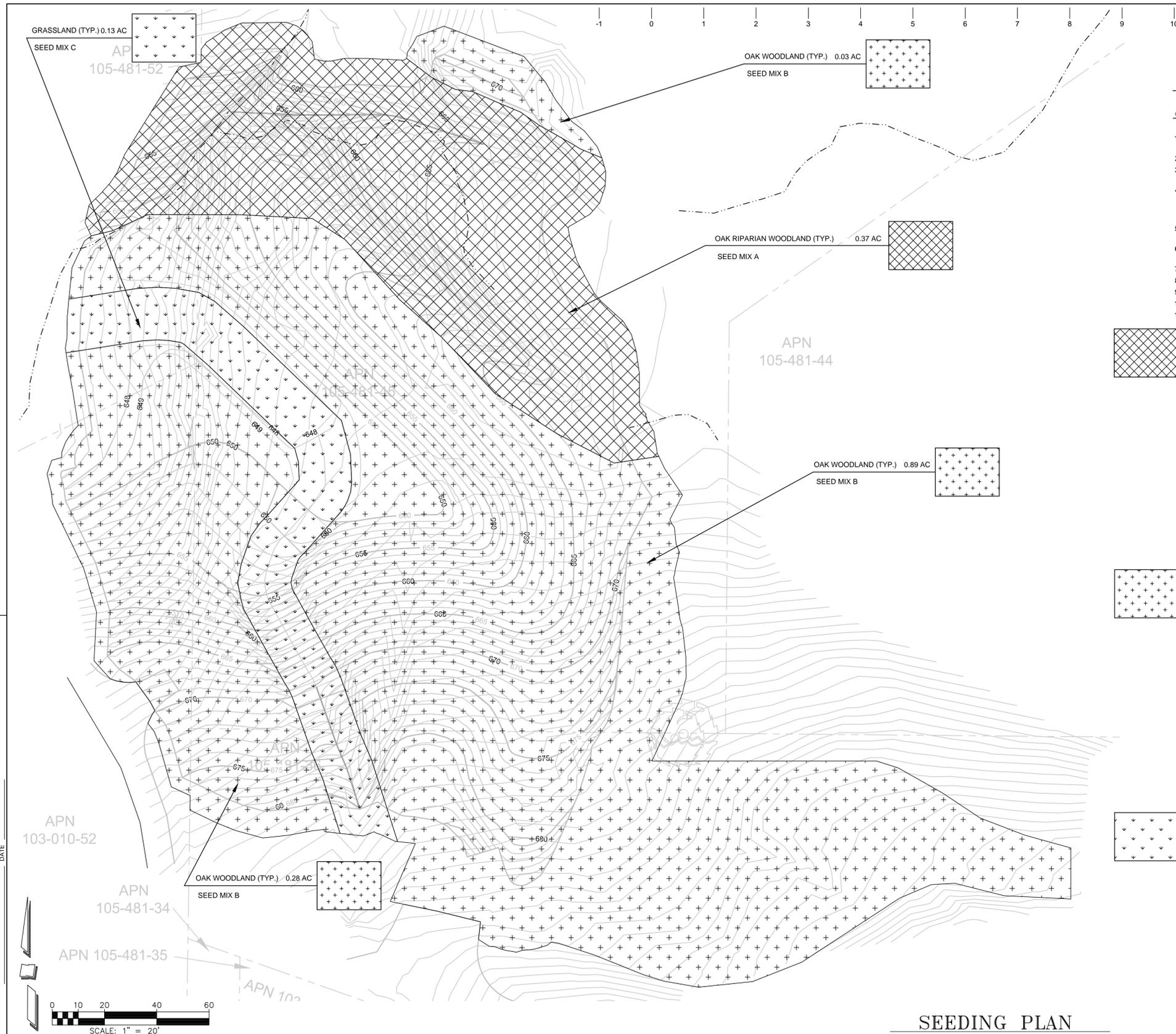
RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

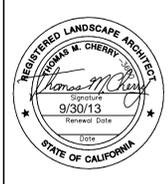
COORDINATE INDEX
446 N. 1695 E.
CONST. COMPL. _____
FIELD REVISIONS _____

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
PLANTING PLAN - TREES

SCALE: HOR. 1" = 20' VERT. N/A
W.A. PWS 00193 R.S. _____
SHEET 16 OF 20 SHEETS



FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

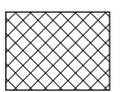


PLANS	BY	DATE
DESIGNED	TC	
CHECKED	AC	
PREPARED BY:		
CHERRY ENGINEERING 12721 POWAY ROAD POWAY, CA. 92064		
THOMAS CHERRY	RLA 3660	DATE

LEGEND
- - - - - JURISDICTIONAL WETLANDS

GENERAL NOTES:

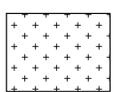
1. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE PROCEEDING WITH WORK. NOTIFY ENGINEER IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON THE PLAN.
2. DO NOT SCALE DRAWINGS.
3. REFERENCE TO ANY DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING.
4. DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED PRIOR TO THE CONTINUATION OF THIS WORK. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
5. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. THE LANDSCAPE CONTRACTOR WARRANTS TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW UNLESS OTHERWISE SPECIFIED AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS.
7. SLOPE IS NOT FACTORED INTO AREA QUANTITIES. SEE GRADING PLANS FOR SLOPE RATIO.
8. SEEDING SHALL OCCUR ONLY AFTER THE ENGINEER HAS OBSERVED AND APPROVED THAT THE SITE HAS BEEN PROPERLY PREPARED.
9. HAND BROADCAST SEED MIX A AS SHOWN ON THIS SHEET.
10. HYDROSEED SEED MIX B, AS SHOWN ON THIS SHEET.
11. HYDROSEED SEED MIX C, AS SHOWN ON THIS SHEET.



Riparian Habitat Seed Mix A

Species Botanical/Common Name	Pounds/Acre PLS	Min% PLS ¹
<i>Artemisia californica</i> /California sagebrush	0.30	10
<i>Artemisia douglasiana</i> /Douglas mugwort	0.40	10
<i>Artemisia palmeri</i> /Palmer's sagewort	0.20	10
<i>Bromus carinatus</i> /California brome	8.00	85
<i>Deinandra fasciculata</i> /fascicled tarplant	0.05	10
<i>Isocoma menziesii</i> /goldenbush	0.04	15
<i>Leymus condensatus</i> /giant wild rye	2.50	70
<i>Lupinus succulentus</i> /arroyo lupine	3.75	90
<i>Muhlenbergia rigens</i> /deergrass	1.75	60
<i>Melica imperfecta</i> /coast range melic	2.00	70
<i>Plantago erecta</i> /plantain	8.50	85
<i>Stipa pulchra</i> /purple needlegrass	4.50	75
<i>Vulpia microstachys</i> /small fescue	0.75	85

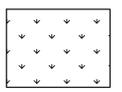
1. PLS = Pure Live Seed



Oak Woodland Seed Mix B

Species Botanical/Common Name	Pounds/Acre PLS ²	Min% PLS
<i>Acemispn glaber</i> (<i>Lotus scoparius</i>)/Deerweed	3.40	85
<i>Artemisia californica</i> /California sagebrush	0.50	10
<i>Baccharis sarothroides</i> /Broom baccharis	0.20	3
<i>Bromus carinatus</i> /California brome	12.00	85
<i>Croton setigerus</i> /doveweed	2.50	40
<i>Eriogonum fasciculatum</i> /California buckwheat	0.50	10
<i>Eschscholzia californica</i> /California poppy	3.75	85
<i>Lupinus succulentus</i> /arroyo lupine	3.75	90
<i>Malsma laurina</i> /laural sumac ³	1.00	70
<i>Plantago erecta</i> /plantain	8.50	85
<i>Salvia mellifera</i> /black sage	3.75	40
<i>Sisyrinchium bellum</i> /blue-eyed grass	2.00	80
<i>Stipa pulchra</i> /purple needlegrass	4.50	75

2. 75 percent of the seed shall be hand seed over entire area
3. Clean and scarified PLS = Pure Live Seed



Grassland Seed Mix C

Species Botanical/Common Name	Pounds/Acre PLS	Min% PLS
<i>Acemispn glaber</i> (<i>Lotus scoparius</i>)/Deerweed	3.40	85
<i>Bromus carinatus</i> /California brome	12.00	85
<i>Melica imperfecta</i> /coast range melic	2.00	70
<i>Leymus condensatus</i> /giant wild rye	2.50	70
<i>Vulpia microstachys</i> /small fescue	0.75	85
<i>Eschscholzia californica</i> /California poppy	3.75	85
<i>Lupinus succulentus</i> /arroyo lupine	3.75	90
<i>Muhlenbergia rigens</i> /Deer Grass	1.75	60
<i>Plantago erecta</i> /plantain	8.50	85
<i>Stipa pulchra</i> /purple needlegrass	4.50	75

SEEDING PLAN

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
PLANTING PLAN - SEEDING

SCALE: HOR. 1" = 100'	VERT. N/A
W.A. PWS 00193	R.S. _____
SHEET 17 OF 20 SHEETS	

FINAL DESIGN

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JANUARY 2013

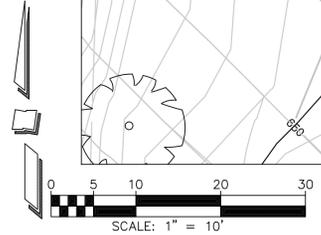
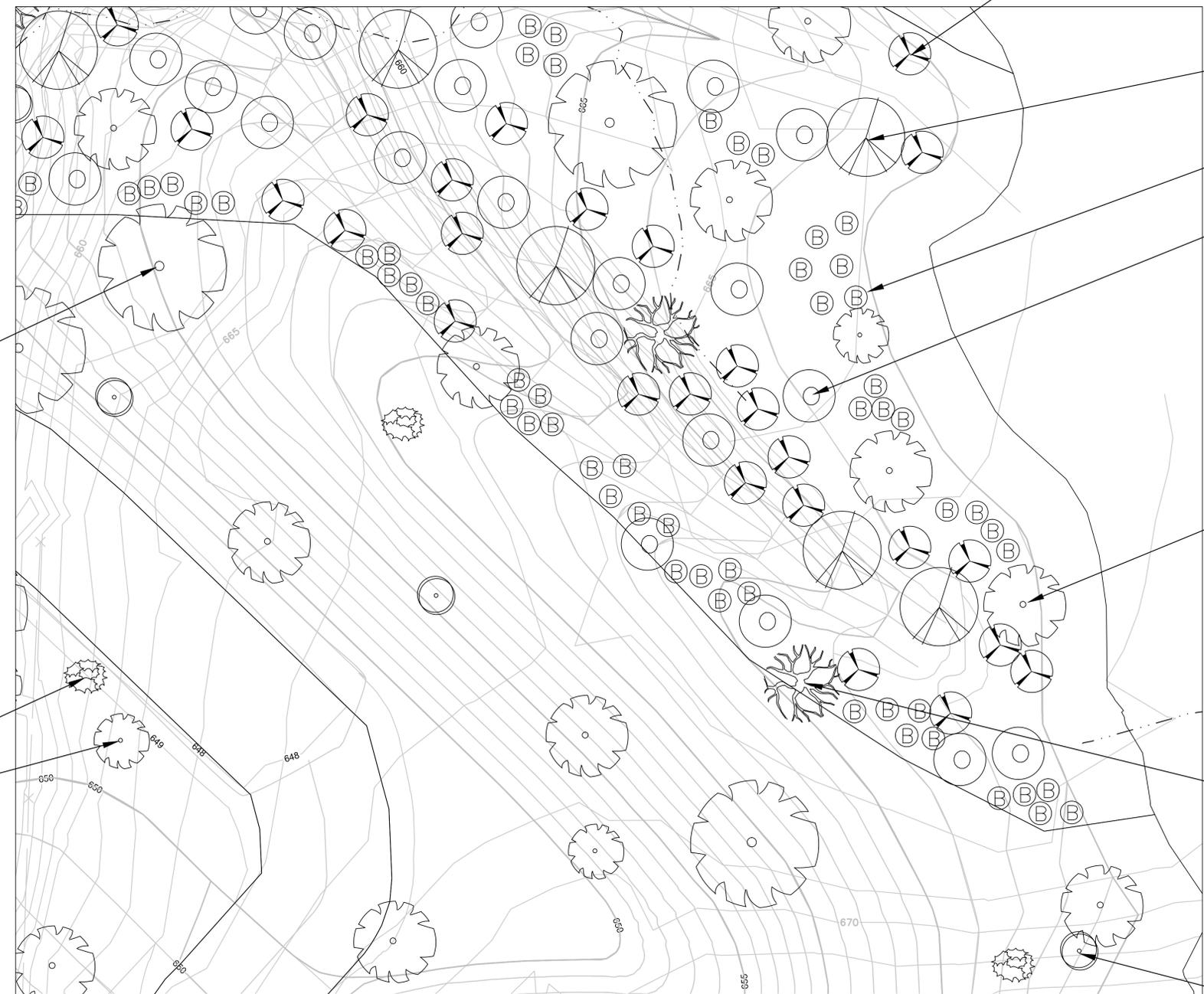
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

DESIGNED	BY	DATE
CHECKED	TC	
	AC	

PREPARED BY:
CHERRY ENGINEERING
12721 POWAY ROAD
POWAY, CA. 92064

THOMAS CHERRY RLA 3660 DATE



PLAN VIEW - PLANTINGS (TYP)

Install container plants per L1 and L2 of the latest edition of the SDRSD Typical. Place all Tree species identified container plants per plan. Shrub understory plants shall be spotted randomly by Engineer.

REVIEWED BY: _____ DATE _____ COUNTY OF SAN DIEGO DPW DESIGN SECTION

FINAL DESIGN

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JANUARY 2013

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL. _____	
FIELD REVISIONS _____	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
PLANTING PLAN - PLANTING DETAILS

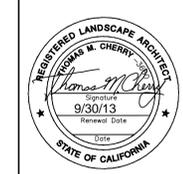
SCALE: HOR. 1"=10'	VERT. N/A
W.A. PWS 00193	R.S. _____
SHEET 18 OF 20 SHEETS	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

DESIGNED	TC	DATE
CHECKED	AC	

PREPARED BY:
CHERRY ENGINEERING
12721 POWAY ROAD
POWAY, CA. 92064

THOMAS CHERRY RLA 3660 DATE



APN
105-481-52

APN
105-481-44

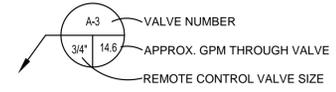


IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL	PSI	GPM	REMARKS	DETAIL
—	1/2" POLYETHYLENE TUBING	DIG CORP / 14-007	45	N/A	MAX LENGTH OF SINGLE LATERAL (INCLUDES BRANCHED OUT LATERALS) = 600'	
▽	POINT OF CONNECTION = EXISTING 3/4" SPIGOT NEAR END OF DRIVEWAY TURN AROUND	5/8" BADGER WATER METER/MODEL 25 BRONZE OR EQUAL			CONTRACTOR TO INSTALL WATER METER AS PER DETAIL. CONTRACTOR TO VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION	A/20
△	AUTOMATIC CONTROLLER	DIG CORP./CONTROLLER 740.000 WITH HUNTER MINI CLIK RAIN SENSOR			INSTALL PER MANUF. RECOMMENDATIONS	C/20
⊗	DRIP ZONE ASSEMBLY	DIG CORP / P53-075		3/4"	VALVE SIZE	C/20
⊗	BALL VALVE	KING BROS. B.T.U. OR APPROVED EQUAL			INLINE SIZE \ BLOCKED TRUE UNION	B/20
⊗	MANUAL LINE FLUSHING VALVE BOX	N/A			INSTALL AT END OF EACH POLY LINE. CLAMP LINE SHUT CARSON 1419 W/ FLUSH COVER OR APPROVED EQUAL	
—	CONTROL WIRE-14 GAUGE	DIRECT BURIAL (COLOR CODED)			SEE SPEC.	
—	MAINLINE (PVC PIPE)	SCH.40 PVC			SEE SPEC.	D/20
—	LATERAL LINE (PVC PIPE)	SCH.40 PVC			3/4" - POLYETHYLENE TUBING TO TEE OFF LATERALS	D/20
—	SLEEVING	SCH. 40 PVC			SEE SPEC. SLEEVING SHALL BE TWICE O.D OF PIPE	D/20
—	RAIN SHUT OFF DEVICE	HUNTER / MINI CLIK OR APPROVED EQUAL			INSTALL PER MANUF. RECOM.	C/20

IRRIGATION NOTES:

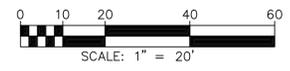
- CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING MAINS, LATERALS, SLEEVES AND CONTROL WIRING STUBOUTS PRIOR TO CONSTRUCTION.
- MAINLINE, LATERALS, POLY PIPE, AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY.
- IF NECESSARY CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE REGARDING LAYOUT AND QUESTIONS.
- VALVE CALL OUT:



LEGEND

--- JURISDICTIONAL WETLANDS

REVIEWED BY: COUNTY OF SAN DIEGO DPW DESIGN SECTION DATE



IRRIGATION PLAN

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: _____ DATE _____
APPROVED BY: _____ DATE _____
MOHAMAD FAKHRIDDINE, COUNTY ENGINEER

REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
446 N.	1695 E.
CONST. COMPL.	
FIELD REVISIONS	

FORMER FALLBROOK 1C BURN
DUMP REMEDIATION
IRRIGATION LAYOUT

SCALE: HOR. 1" = 20' VERT. N/A
W.A. PWS 00193 R.S.
SHEET 19 OF 20 SHEETS

FINAL DESIGN

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JANUARY 2013

