

State of California  
Department of Fish and Wildlife



## Memorandum

Date: June 22, 2022

To: Jennifer Moonjian  
California Department of Transportation  
50 Higuera Street  
San Luis Obispo, CA 93401  
[Jennifer.Moonjian@dot.ca.gov](mailto:Jennifer.Moonjian@dot.ca.gov)

DocuSigned by:

*Erin Chappell*

From: Erin Chappell, Regional Manager  
California Department of Fish and Wildlife-Bay Delta Region, 2825 Cordelia Road, Suite 100, Fairfield, CA 94534

Subject: Incidental Take Permit 2081-2022-012-03 for the State Route 9 – Kings Creek Bridge Replacement Project (EA 05-1H470), Santa Cruz County

Enclosed you will find an electronic copy of the Incidental Take Permit for the above referenced Project, which has been digitally signed by the California Department of Fish and Wildlife (CDFW). Please read the permit carefully and sign the acknowledgement on the permit **no later than 30 days from CDFW signature** and prior to initiation of ground-disturbing activities. You may return an electronic copy of the permit with digital signature to [CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov). Digital signatures shall comply with Government Code section 16.5. Alternatively, you may return a hard copy of the permit via mail to:

California Department of Fish and Wildlife  
Habitat Conservation Planning Branch, CESA Permitting  
Post Office Box 944209  
Sacramento, CA 94244-2090

You are advised to keep the permit in a secure location and distribute copies to appropriate project staff responsible for ensuring compliance with the conditions of approval of the permit. Note that you are required to comply with certain conditions of approval prior to initiation of ground-disturbing activities. Additionally, a copy of the permit must be maintained at the project work site and made available for inspection by CDFW staff when requested.

The permit will not take effect until the signed acknowledgement is received by CDFW. If you wish to discuss these instructions or have questions regarding the permit, please contact Mr. Robert Stanley, Senior Environmental Scientist (Specialist), at [Robert.Stanley@wildlife.ca.gov](mailto:Robert.Stanley@wildlife.ca.gov); or Mr. Wes Stokes, Senior Environmental Scientist (Supervisory), at [Wesley.Stokes@wildlife.ca.gov](mailto:Wesley.Stokes@wildlife.ca.gov).

Enclosures



**California Department of Fish and Wildlife  
Bay Delta Region 3  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534**

California Endangered Species Act  
Incidental Take Permit No. 2081-2022-012-03

**STATE ROUTE – 9 KINGS CREEK BRIDGE REPLACEMENT PROJECT – 1  
(EA 05-1H470)**

**I. Authority:**

This California Endangered Species Act (CESA) Incidental Take Permit (ITP) is issued by the California Department of Fish and Wildlife (CDFW) pursuant to Fish and Game Code section 2081, subdivisions (b) and (c), and California Code of Regulations, Title 14, section 783.0 et seq. CESA prohibits the take<sup>1</sup> of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species.<sup>2</sup> However, CDFW may authorize the take of any such species by permit pursuant to the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c) (See Cal. Code Regs., tit. 14, § 783.4).

<b>Permittee:</b>	<b>California Department of Transportation</b>
<b>Principal Officer:</b>	<b>Jennifer Moonjian, Senior Environmental Planner</b>
<b>Contact Person:</b>	<b>Alexandra Thiel, (805) 441-8484</b>
<b>Mailing Address:</b>	<b>50 Higuera Street, San Luis Obispo, CA 93401</b>

**II. Effective Date and Expiration Date of this ITP:**

This ITP shall become effective when signed by all parties and received by CDFW as described in the Notices section of this ITP. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **December 31, 2027**.

Notwithstanding the expiration date on the take authorization provided by this ITP, Permittee's obligations pursuant to this ITP do not end until CDFW accepts as complete the Permittee's Final Mitigation Report required by Condition of Approval 7.7 of this ITP.

**III. Project Location:**

The State Route 9 – Kings Creek Bridge Replacement Project (Project) is located on State Route 9 (SR-9) in Santa Cruz County near the community of Boulder Creek in the State of

<sup>1</sup>Pursuant to Fish and Game Code section 86, "'take' means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." (See also *Environmental Protection Information Center v. California Department of Forestry and Fire Protection* (2008) 44 Cal.4th 459, 507 [for purposes of incidental take permitting under Fish and Game Code section 2081, subdivision (b), "'take' ... means to catch, capture or kill").

<sup>2</sup>The definition of an endangered, threatened, and candidate species for purposes of CESA are found in Fish and Game Code sections 2062, 2067, and 2068, respectively.

California (Figure 1). The Kings Creek Bridge (No. 36-0045) is located at PM 15.5, Latitude 37.1428, Longitude -122.1320.

#### **IV. Project Description:**

The Project includes the following work activities: 1) phased demolition of the existing bridge 2) phased construction of a new free span bridge that is 99 feet long and 40 feet wide 3) installation of a temporary creek diversion system 4) restoration and enhancement of on-site habitat for the Covered Species.

##### *Bridge Demolition and Replacement*

The existing Kings Creek Bridge will be demolished and replaced with a clear-span bridge over a period of three seasons. The new bridge will be a pre-cast single-span structure approximately 99 feet long and 40 feet wide consisting of 12-foot-wide lanes and eight-foot-wide shoulders (Figure 2; Kings Creek Bridge Foundation Plan Design Sheet). A retaining wall with a concrete barrier will be constructed on southwest and southeast sides of the proposed new bridge, perpendicular to the creek, 120 feet and 35 feet long (Figure 2; Kings Creek Bridge Foundation Plan Design Sheet). Thirty-six (36) cast in drilled hole (CIDH) piles will support the new bridge (Figure 2, Kings Creek Index to Plans Design Sheet). Construction will be staged to allow for traffic passage during construction, with a single lane replaced at a time. The existing metal beam guard rail will be replaced with a standard Midwest guardrail system. the new bridge deck will sit above the estimated 1% flood event high water mark. This will further reduce the potential for debris snags on structures (Figure 1).

##### *Temporary Access*

Access to the bridge at this location will require removal of one large multi-stem Bay tree (43-inch diameter at breast height (DBH)) at the outer edge of the riparian zone. Disturbance of 1,321 square feet (49 cubic yards) of native soil will be removed for access. Access to the streambed at the Kings Creek Bridge will occur southeast of the bridge. An equipment and staging area will occur within the state right-of-way to the northwest of the bridge.

##### *In-Channel Construction*

In-channel work at the Kings Creek Bridge location will consist of demolishing the existing columns and abutments, constructing a catchment system, and the installation of temporary supports to support the existing bridge or for the splicing of the precast deck. No impact pile driving will occur. Twenty-three (23) cubic yards of columns over 89 square feet will be removed from within the streambed to three feet below the ground surface. The new cast-in-drilled-hole abutments will be constructed outside of the bed, bank and channel at Kings Creek. The previously existing sacked concrete armoring along the north side of the creek will remain in place. One hundred fifty-eight (158) cubic yards of sacked concrete at the top of the slope will be removed over 37 linear feet. Rock Slope Protection will be placed to protect slope stability in the same location where the 158 cubic yards of sacked concrete is removed.

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A debris catchment system will be constructed beneath the bridge to catch demolition debris. The catchment system will remain in place throughout the duration of construction. The catchment system design will be submitted by the contractor prior to construction.

#### *Temporary Creek Diversion System*

A temporary creek diversion system in Kings Creek will be necessary during construction for the removal of the existing bridge pier and construction of the catchment system. The temporary stream diversion will require cofferdams, consisting of gravel bags, sheet piles or k-rails. Up to 515 cubic yards of temporary fill within the channel will be required for the diversion system within the dewatered area. The temporary creek diversion system will be removed each year prior to the end of the in-water work window. The stream diversion will be required for three consecutive years of construction.

#### *Utilities*

Existing fiber optic and water utilities connected to the bridge deck and overhead power lines will be temporarily relocated during construction. After construction, overhead lines will be relocated within the state right-of-way and the water line will be attached to the bridge.

#### *Nightwork*

Night work will be required at both bridge locations for activities that require full lane closures in both directions, including placement of girders.

#### *Revegetation/Enhancement Work*

Areas of temporary impact from temporary access, staging, excavation and fill operations adjacent to and within the bed, bank, channel and upland riparian habitat shall require the replacement of native vegetation and contouring of bed, bank and channel conditions to match pre-project upstream and downstream contours at the Project location.

#### *Equipment*

The following equipment is needed; asphalt paver/roller, backhoe, bobcat, bulldozer/loader, compressor, concrete pump truck, concrete truck mixers, crane, dump truck, excavator, flatbed truck, forklift, front-end loader, man-lift, grader, haul truck, paint/stripping truck, snooper and water truck.

### **V. Covered Species Subject to Take Authorization Provided by this ITP:**

This ITP covers the following species:

NameCESA Status<sup>3</sup>

1. Coho Salmon (*Oncorhynchus kisutch*)  
south of Punta Gorda (Humboldt County)  
also known as the Central California Coast (CCC)  
Evolutionarily Significant Unit (ESU)

Endangered<sup>4</sup>

This species and only this species is the “Covered Species” for the purposes of this ITP.

## **VI. Impacts of the Taking on Covered Species:**

Project activities and their resulting impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above expected to result in incidental take of individuals of the Covered Species include dewatering of Kings Creek; installation and removal of the temporary creek diversion system over multiple seasons; demolition and removal of the existing bridge structure; grading; contaminants, and sediment mobilization and/or relocation activities prescribed by this ITP (Covered Activities).

Incidental take of individuals of the Covered Species in the form of mortality (“kill”) may occur as a result of Covered Activities such as exposure to suspended sediments, stranding in isolated pools, relocation from isolated pools, entrapment in temporary water diversion systems and contaminants released during demolition and construction. Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so of the Covered Species from relocation actions absent. The areas where authorized take of the Covered Species is expected to occur include Covered Species habitat areas subject to Covered Activities, as shown in Figure 1 (collectively, the Project Area).

The Project is expected to cause the temporary loss of 0.07 acres of habitat for the Covered Species over 77 linear feet of Kings Creek (Figure 1). Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, water quality degradation and edge effects, and the Project’s incremental contribution to cumulative impacts (indirect impacts). These impacts include stress resulting from construction noise and vibrations and from capture and relocation; temporary habitat loss; permanent tree removal; and long-term effects due to increased pollution, increased competition for food and space, and increased vulnerability to predation.

## **VII. Incidental Take Authorization of Covered Species:**

This ITP authorizes incidental take of the Covered Species and only the Covered Species. With respect to incidental take of the Covered Species, CDFW authorizes the Permittee, its employees, contractors, and agents to take Covered Species incidentally in carrying out the

<sup>3</sup> Under CESA, a species may be on the list of endangered species, the list of threatened species, or the list of candidate species.

<sup>4</sup>See Cal. Code Regs. tit. 14 § 670.5, subd. (a)(2)(N).

Covered Activities, subject to the limitations described in this section and the Conditions of Approval identified below. This ITP does not authorize take of Covered Species from activities outside the scope of the Covered Activities, take of Covered Species outside of the Project Area, take of Covered Species resulting from violation of this ITP, or intentional take of Covered Species except for capture and relocation of Covered Species as authorized by this ITP.

### **VIII. Conditions of Approval:**

Unless specified otherwise, the following measures apply to all Covered Activities within the Project Area, including areas used for vehicular ingress and egress, staging and parking and noise and vibration generating activities that may cause take. CDFW's issuance of this ITP and Permittee's authorization to take the Covered Species are subject to Permittee's compliance with and implementation of the following Conditions of Approval:

- 1. Legal Compliance:** Permittee shall comply with all applicable federal, state, and local laws in existence on the effective date of this ITP or adopted thereafter.
- 2. CEQA Compliance:** Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Mitigated Negative Declaration for the San Lorenzo River Bridge and Kings Creek Bridge Replacement Project (SCH No.: 2020120272) certified by the California Department of Transportation on February 9, 2021 as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).
- 3. LSA Agreement Compliance:** Permittee shall implement and adhere to the mitigation measures and conditions related to the Covered Species in the Lake and Streambed Alteration (LSA) Agreement Environmental Permit Management Information System (EPIMS) (Notification No. EPIMS-SCR-15964-R3) for the Project executed by CDFW pursuant to Fish and Game Code § 1600 et seq.
- 4. ESA Compliance:** Permittee shall implement and adhere to the terms and conditions related to the Covered Species in the Formal Consultation on the San Lorenzo River Bridge and Kings Creek Bridge Replacement Project, Santa Cruz County, California (Caltrans EA 05-1H470) (Biological Opinion No. WCRO-2020-02273) for the Project pursuant to the Federal Endangered Species Act (ESA). For purposes of this ITP, where the terms and conditions for the Covered Species in the federal authorization are less protective of the Covered Species or otherwise conflict with this ITP, the conditions of approval set forth in this ITP shall control.
- 5. ITP Time Frame Compliance:** Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.

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## 6. General Provisions:

- 6.1. Designated Representative.** Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.
- 6.2. Designated Biologist(s), Biological Monitor(s).** Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Biological Monitor(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Biological Monitor(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist(s) and Biological Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Biological Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Biological Monitor(s) must be changed.
- 6.3. Designated Biologist Authority.** To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Site and otherwise facilitate the Designated Biologist in the performance of his/her duties. If the Designated Biologist is unable to comply with this ITP, then the Designated Biologist shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.
- 6.4. Education Program.** Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information

about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.

- 6.5. Construction Monitoring Documentation. The Designated Biologist(s) and Biological Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project site upon request by CDFW.
- 6.6. Trash Abatement. Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.
- 6.7. Dust Control. Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.
- 6.8. Erosion Control Materials. Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species. Use of monofilament synthetic netting (erosion control matting) or similar material shall be prohibited within the Project Area.
- 6.9. Delineation of Property Boundaries. Before starting Covered Activities along each part of the route in active construction Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in that area.
- 6.10. Delineation of Habitat. Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope

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or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.

- 6.11. Project Access.** Project-related personnel shall access the Project Area using existing routes, or routes identified in the Project Description and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.
- 6.12. Staging Areas.** Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Condition of Approval 6.11 of this ITP.
- 6.13. Hazardous Waste.** Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.
- 6.14. CDFW Access.** Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.
- 6.15. Refuse Removal.** Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.

## **7. Monitoring, Notification and Reporting Provisions:**

- 7.1. Notification Before Commencement.** The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.

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- 7.2. Notification of Non-compliance.** The Designated Representative shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.
- 7.3. Compliance Monitoring.** The Designated Biologist shall be on-site daily when Covered Activities occur including initial ground disturbance, vegetation removal or clearing, exclusionary fencing installation, concrete pours, concrete washouts, water diversion installation and water diversion removal. The Designated Biologist or Designated Representative (Approved in advance by CDFW) shall conduct compliance inspections each working day. The Designated Biologist or Designated Representative shall conduct compliance inspections to:
- (1) minimize incidental take of the Covered Species;
  - (2) prevent unlawful take of species;
  - (3) check for compliance with all measures of this ITP;
  - (4) check all exclusion zones; and
  - (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.

The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP. The frequency of biological monitoring and reporting will be assessed on an ongoing basis and will depend on the nature of the activities being conducted.

- 7.4. Monthly Compliance Report.** The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 7.3 into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program. At the time of this ITP's approval, the CDFW Regional Representative is Robert Stanley, Senior Environmental Scientist (Specialist), ([Robert.Stanley@wildlife.ca.gov](mailto:Robert.Stanley@wildlife.ca.gov)) and Headquarters CESA Program email is [CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov). CDFW may at any time increase the timing and number of compliance inspections and reports required

under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.

- 7.5. Annual Status Report.** Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in Condition of Approval 7.4; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.
- 7.6. CNDDDB Observations.** The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.
- 7.7. Final Mitigation Report.** No later than 60 days after completion of all Covered Activities, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.
- 7.8. Notification of Take or Injury/Damage.** Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured/damaged by a Project-related activity, or if a Covered Species is otherwise found dead or injured/damaged within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (707) 428-2002. Initial notification shall also be provided to the CDFW

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Regional Representative is Robert Stanley, Senior Environmental Scientist (Specialist), (707) 339-6534 ([Robert.Stanley@wildlife.ca.gov](mailto:Robert.Stanley@wildlife.ca.gov)). The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured/damaged and the ITP Number (2081-2022-012-03). Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury/damage, and any other pertinent information.

- 8. Take Minimization Measures:** The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:
- 8.1. Seasonal Work Window and Weather.** Permittee shall limit Covered Activities to the period between June 1 and October 15, unless otherwise authorized in writing by CDFW. Permittee shall monitor the National Weather Service 72-hour forecast for the Project Area. No Covered Activities shall occur during a rain event and in dry weather only within the Project Area. No Project activities will be started if the associated erosion control measures cannot be completed prior to the onset of precipitation. No Covered Activities shall occur if there is a 40 percent chance of precipitation or greater in the National Weather Service 72-hour forecast for the Project Area. Covered Activities may continue 24 hours after the rain ceases if there is less than a 40 percent chance of precipitation in the 24-hour forecast for the Project Area.
  - 8.2. Time of Day Work Restriction.** All Covered Activities that will clear, grub, remove existing unpaved features, excavate embankments, remove existing drainage features, construct new drainage features or excavate soil that is not covered by a paved area, shall terminate 30 minutes before sunset and shall not resume until 30 minutes after sunrise unless approved by the CDFW Representative in writing. The Permittee shall use sunrise and sunset times established by the U.S. Naval Observatory Astronomical Applications Department for determining when Covered Activities shall terminate and resume.
  - 8.3. Temporary Work Platform and Debris Catchment System Streambed Protection Plan.** A minimum of 30 days prior to the initiation of construction the Permittee shall provide a Temporary Work Platform and Debris Catchment System Streambed Protection Plan. The plan shall provide design plans of any temporary work platforms or debris catchment systems. The plan shall also describe how the Permittee will prevent excessive dust, debris and material from entering Covered Species habitat. This may include overlay of visqueen, installation of additional catch-basin systems or utilization of a timber work platform with visqueen underlay during demolition, removal and subsequent construction.

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- 8.4. Pre-Construction Covered Species Check.** Forty-Eight (48) hours prior to the start of Covered Activities, the Designated Biologist shall inspect the Project Area for Covered Species. Covered Species shall be removed by the Designated Biologist and translocated to a safe location as specified in Condition of Approval 8.7.
- 8.5. Daily Covered Species Checks.** Before the start of work each day and throughout the course of the day as determined by the Designated Biologist, the Project Area shall be inspected for Covered Species as specified in Condition of Approval 8.7. Covered Species shall be removed by the Designated Biologist and translocated to a safe location as specified in Condition of Approval 8.7.
- 8.6. Dewatering and Diversion.** A minimum of 30 days prior to the initiation of construction the Permittee shall submit for CDFW review and acceptance in writing (via e-mail) a stream diversion/dewatering plan. The stream diversion shall be removed each season by October 15 as specified in Condition of Approval 8.1. The Permittee shall implement the following during dewatering and water diversion:
- a) Cofferdams shall be constructed of a non-erodible material which does not contain soil or fine sediment. Sheet piles, gravel-filled bags and/or k-rails shall be used to construct a dam to isolate the stream from its existing channel and re-direct flows out of the excavation area. Bags for gravel bags will be made of burlap or woven synthetic material. The bags will be of sufficient size and strength to hold a minimum of 1.0-cubic-foot of clean gravel, when they are filled to 50 percent of their full capacity. The durability of the burlap will be rated as 10-ounce burlap. The ties and burlap will be made of natural materials. The gravel-filled revetment will be wrapped in plastic to further seal the flow and prevent entrapment of Covered Species.
  - b) Cofferdams and the stream diversion system shall remain in place and functional throughout the seasonal work window construction period. If the cofferdams or stream diversion fail, Permittee shall repair them immediately.
  - c) When the cofferdam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall be allowed to pass downstream of the excavation to maintain aquatic life below the dam. Flow shall be of sufficient quality, quantity and temperature to support fish and other aquatic species both above and below the diversion. The cofferdam materials shall be constructed of non-polluting materials.
  - d) To minimize the potential for Covered Species to be entrained during de-watering activities, Permittee shall establish a Covered Species exclusion barrier and shall place the pump intakes away from complex vegetated banks that may contain habitat for Covered Species. Pump intakes shall be placed away from complex vegetated banks that may contain habitat for Covered Species. Screen material may be constructed of any rigid woven, perforated, or slotted material that

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provides water passage while physically excluding fish. Round openings in the screen shall not exceed 3/32-inch diameter, square openings shall not exceed 3/32-inch measured diagonally, and slotted openings shall not exceed 0.069 inches in width. Approach velocity shall not exceed 0.33 feet per second.

- e) Permittee shall select and install site exclusion methods to ensure that Covered Species cannot reenter the Project Area or become impinged on exclusion net or screen. The Designated Biologist shall regularly monitor site exclusion.
- f) The Designated Biologist shall monitor dewatering at all times. The Designated Biologist shall reduce the rate of diversion as needed to avoid impacts to Covered Species. The Designated Biologist shall monitor upstream and downstream reaches to ensure no Covered Species are stranded or in distress during reduction of flows.
- g) During excavation, Permittee shall install and maintain check-dams or equivalent sediment control methods as necessary to trap and control sediment-laden water. Permittee shall remove any turbid water and sediment present in the work area prior to restoring water flow through the project site and place them in a location where they cannot enter waters of the state.
- h) Reintroduction of stream flows shall be gradual to the isolated work area to prevent stranding, channel instability, or excessive scour. The Designated Biologist shall monitor upstream and downstream reaches to ensure no Covered Species are stranded or in distress during reintroduction of flows. If conditions causing or contributing to stress and/or injury are observed, Permittee shall take immediate remedial actions directed at lessening sources of stress. This may include a more gradual reintroduction of flows to avoid abrupt water surface elevation changes both downstream and upstream of the Project Area.
- i) In the event that work must be phased, Permittee shall remove all cofferdam material prior to the onset of high flows.

**8.7. Covered Species Rescue Plan.** The Permittee shall implement a Covered Species Rescue Plan to be implemented during Project exclusion and stream diversion operations for all species covered under this ITP. The Covered Species Rescue Plan shall include at minimum the following:

- a) Covered Species capture and relocation shall be conducted by or under the direct supervision of the CDFW-approved Designated Biologist, as required by Condition of Approval 6.2.
- b) Prior to the installation of cofferdams and subsequent Covered Activities, the Designated Biologist shall capture and relocate Covered Species to the nearest predetermined release location, approved in advance by CDFW.

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- c) Before capture and relocation of Covered Species, the Designated Biologist shall identify the most appropriate release location(s). Permittee shall submit the proposed release locations to CDFW for review and acceptance prior to commencement of Covered Activities. Release locations shall provide suitable habitat for Covered Species and shall be selected to minimize the likelihood of Covered Species reentering the work area.
- d) All dip nets used to capture Covered Species shall be made of a soft braded nylon material that is non-abrasive. Mesh sizing shall be matched to species and the life stages likely encountered.
- e) Relocation activities shall be performed in the morning if maximum daytime air temperatures are expected to exceed 23 °C (~75 °F).
- f) Electroshocking shall be conducted using the *National Marine Fisheries Service Guidelines for Electrofishing Waters Containing Salmonids Listed Under the Endangered Species Act*, June 2000. [http://www.westcoast.fisheries.noaa.gov/publications/reference\\_documents/esa\\_refs/section4d/electro2000.pdf](http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf).
- g) Captured Covered Species must be kept in a closable container in an adequate amount of cool, clean, well-oxygenated water (e.g., a cooler with lid containing stream water and a battery-operated air stone). Water temperature shall be monitored and kept below 60°F. If necessary, water shall be cooled with ice without introducing ice-borne chemical contaminants. Transport containers shall have a water volume of no less than 5 gallons, preferably more. Covered Species density in the transport container shall not exceed 10 Covered Species (40-80mm) per gallon of water. Collected Covered Species shall not be anesthetized at any point during the rescue operation.
- h) No employee or contractor shall remove any Covered Species, dead or alive, from the site for personal use. All efforts to reduce the time that live Covered Species are out of the water shall be made to reduce the chances of incidental take during the capture and relocation. All Covered Species are to be promptly returned to the water with the exception of mortality.
- i) Efforts shall be made to reduce capture and handling stress, minimize the time that Covered Species are held in buckets, and minimize handling stress during processing and release. Covered Species shall not be held in containers with other species. Covered Species shall be processed first and relocated as soon as possible. Species name and length data shall be recorded on data sheets, as well as time, date, location, gear type, water temperature, and any other pertinent observations of the Covered Species. Permittee shall provide Covered Species capture data to CDFW in the Monthly Compliance Report, as required by Condition of Approval 7.5.

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- j) Permittee shall preserve dead individuals by freezing or placing in a sealed container with 10 percent formalin solution. Information on time and exact location of any incidental take, method of take, length of time from death to preservation, water temperature, and any other relevant information will be recorded in writing. Permittee shall contact the CDFW regional representative for instructions on transmitting preserved individuals. Any take of non-Covered Species shall be documented and included in the Monthly and Final Mitigation Reports, as required by Condition of Approval 7.5 and 7.7.
- k) After the Covered Species relocation effort is completed, if additional Covered Species are observed, Permittee shall cease Covered Activities until those individuals have been relocated. The Designated Biologist shall remain at the site during Covered Activities to capture and relocate additional Covered Species as necessary.
- l) After completing the rescue, the Designated Biologist shall prepare a brief documentation report. The report shall include information on the personnel conducting the rescue, methods used, numbers of each species collected and relocated, length data, and estimate of the survival immediately after release. Photographs of the site and rescue operations shall be included. The report shall be provided by the Permittee to CDFW in the next Monthly Compliance Report required by Condition of Approval 7.4 and in the Annual and Final Mitigation Reports, Condition of Approval 7.5 and 7.7.

**8.8. Permanent Lighting Prohibition.** No new or replacement of existing permanent light sources are authorized under the terms of this ITP.

**8.9. Temporary Lighting Avoidance and Minimization.** All temporary Project lighting associated with construction staging areas, access routes and construction sites shall be shut down upon the completion of work each day and not used as security lighting overnight. Temporary Project lighting on the surface of the road shall be directed towards the road surface and shall not be directed into areas outside of the road surface to prevent additional light pollution and disruption of nocturnal wildlife activity. Baffles and various shading devices may be employed.

**8.10. Concrete Curing.** All concrete used shall be excluded from the wetted channel or areas where it may come into contact with water for a period of 30 days after it is poured/sprayed. Commercial sealants may be applied to the poured concrete surface where difficulty in excluding flow for a long period may occur. If sealant is used the proponent shall follow the instructions as noted on the product label. All sealants shall be approved in advance, in writing by CDFW prior to their use on-site. As an alternative, water quality testing and analysis may be conducted in coordination with CDFW. Results shall be submitted and accepted by CDFW prior to removal of the temporary diversion system that will re-introduce flows to new concrete.

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**8.11. Spill Containment and Clean Up.** Prior to entering the work site, all field personnel shall know the location of spill kits and trained in their appropriate use. All activities performed in or near a river, stream, or lake shall have absorbent materials designated for spill containment and cleanup activities on-site for use in an accidental spill. CDFW shall be notified by the Permittee within 24 hours of all spills and consulted regarding clean-up procedures.

**8.12. Decontamination of Clothing and Equipment.** Any equipment that will enter the channel during construction will be decontaminated before and after construction to prevent the spread of aquatic diseases, such as ranavirus, and invasive aquatic species. Workers that will enter the riparian area, bed, bank or channel must also decontaminate waders, boots and other clothing that will come in direct contact with the water. Decontamination of clothing and equipment will be done through by selecting one of the following:

- a) Drying equipment without washing, in an upland location following last aquatic use. If average daytime temperatures exceed 80 F, drying times will be at least 7 days. If average daytime temperatures are below 80 F, drying times will be at least 30 days.
- b) Scalding water wash (at least 140 F) with varying high- and low-pressure spray to dislodge pathogens, vegetation, and contaminated sediment.
- c) Freezing at a temperature of less than 32 F for more than 72 hours.
- d) Soaking in a CDFW-approved disinfectant solution for at least two minutes (or longer, depending on the disinfectant used). To avoid harm to non-target species, disinfected clothing and equipment will be thoroughly rinsed in a water bath before entering the stream.
- e) Repeat decontamination is required only if the equipment/clothing is removed from the site, used within a different water body, and returned to the Project site. Decontamination will take place in an upland location, preferably in the staging area, and any chemicals used during decontamination will be prevented from entering water bodies or storm water drains.

**8.13. Rock Slope Protection Filter Fabric Prohibition.** No rock slope protection (RSP) filter fabric, geo-textile fabric or similar plastic-derived materials are authorized for permanent use within the Project Area under the terms of this ITP.

**9. Habitat Management Land Acquisition and Restoration:** CDFW has determined that habitat restoration, enhancement and long-term management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result with implementation of the Covered Activities. This determination is based on factors including an assessment of the

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importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation.

To meet this requirement, the Permittee shall restore approximately 0.07 acres of temporary riparian and aquatic habitat disturbance on-site, enhance and restore approximately 77 linear feet of riparian habitat on-site that is contiguous with other Covered Species habitat and install a Covered Species Rootwad fascine bundle/willow habitat features, and manage the Habitat Management (HM) pursuant to Conditions of Approval 9.3 below. Long-term funding for monitoring and management of created Covered Species habitat must be complete before starting Covered Activities or within 18 months of the effective date of this ITP if Security is provided pursuant to Condition of Approval 10 below for all uncompleted obligations.

**9.1 Cost Estimates.** CDFW has estimated the cost of habitat creation, restoration, and long-term management of Covered Species habitat creation and restoration of temporarily disturbed habitat as follows:

- 9.1.1. On-Site habitat restoration and enhancement costs for a total of 0.07 acres of Covered Species riparian and aquatic habitat including a minimum of 50 linear feet of willow fascine bundle/willow structures estimated at **\$24,067.00**.
- 9.1.2. Long-term management funding as described in Condition of Approval 9.2, estimated at **\$33,832.00**. Management funding is estimated initially for the purpose of providing Security to ensure implementation of habitat creation, restoration, monitoring and management.
- 9.1.3. All costs associated with CDFW engaging an outside contractor to complete the mitigation tasks, including but not limited to acquisition, protection, and perpetual funding and management of the HM lands and restoration of temporarily disturbed habitat. These costs include but are not limited to the cost of issuing a request for proposals, transaction costs, contract administration costs, and costs associated with monitoring the contractor's work **\$40,000.00**.

**9.2. Management Fund.** The Permittee shall ensure that HM lands are managed, maintained, and monitored as described in this ITP. Permittee shall provide ten years of monitoring and management funding for activities outlined in the final accepted Habitat Enhancement and Long-Term Management Plan consistent with Measure 9.3 below.

**9.3. On-Site Habitat Enhancement Plan.** The Permittee shall be responsible for submitting an On-Site Habitat Enhancement Plan to address an area of at least 0.07 acres. The plan shall be submitted to CDFW for written review and acceptance at least 30 days prior to the initiation of Covered Activities. The plan shall address revegetating all access routes, staging areas and areas of temporary impacts within

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Covered Species habitat. Areas that are shaded by the bridge or unvegetated prior to construction do not require revegetation and shall only require contouring and grading to match pre-project conditions. All other applicable areas of barren soil or upland habitat shall be hydro-seeded or planted with native vegetation appropriate to the Project Site. The plan shall include a minimum of 50 liner feet of fascine bundles or willow structures. All on-site tree and woody vegetation plantings shall be subject to a ten-year monitoring period and 75% success criteria for survivorship. All hydro-seeding shall be monitored and compared utilizing before and after images to determine success. If hydro-seeding does not take hold within 6 months, additional applications shall be required. If any tree or woody vegetation plantings fail, additional plantings shall be required and additional years of monitoring shall be required in consultation with CDFW until the success criteria are achieved as noted above. All disturbed areas shall be monitored and controlled for invasive species rated as "High" by the California Invasive Plant Council's database, which is accessible at: <https://www.cal-ipc.org/plants/inventory/>. All locations shall be required to obtain a 10% or less ground cover percentage for species rated as "High" annually for five-years as specified in this Agreement. Reference site analysis and final approval of an enhancement site as having all obligations met may be accepted upon written request and written approval from CDFW. Alternative concepts for enhancement, such as land acquisition or permanent protection may be considered upon written request and written approval to CDFW. All temporary irrigation systems shall be removed upon completion of site enhancements or at such a time when supplemental watering is no longer required.

- 9.3.1. On-Site Habitat Enhancement Plan Monitoring and Reporting. The Permittee shall submit an On-Site Habitat Enhancement Report to CDFW by December 31 over a ten-year period, as well as any additional years, as applicable. Annual monitoring will be submitted for years 1 through 5 and in Year 7 and 10. A reduction in monitoring and reporting may be authorized upon written request and approval from CDFW. The report shall include success criteria milestones. The report shall also include photos from designated photo stations, a summary of site conditions and a list of wildlife observed on site. The report shall also include a list of corrective actions that may be necessary to increase the probability of native plant recruitment or habitat improvement to the Project Area.
- 9.3.2. On-Site Cross Channel Analysis. A qualified professional, such as a fluvial geomorphologist, hydraulic engineer, or other qualified professional shall be approved in advance by CDFW to conduct on site channel analysis. The qualified professional shall record cross sections from top of bank to top of bank a minimum of 30 days prior to Covered Activities at Kings Creek, as baseline. The survey shall document elevations obtained along the channel thalweg (lowest and deepest points) to accurately define the channel gradient through the Project Area at Kings Creek. Additionally, the post-construction survey shall document cross sections over a ten-year monitoring period (Year 0 = Baseline) at minimum 200 feet upstream and downstream of the bridge as access and permission shall

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allow. CDFW may approve a reduction in the survey timeline if significant changes are not observed in years following large channel-forming events. Surveys shall be implemented during the low water period. Survey information shall include analysis and documentation of streambed substrate and particle size analysis through the site using visual assessment in pools and a Wolman pebble count in riffles. All cross-section analysis results shall be provided as a sub-section of the On-Site Enhancement Plan Annual Monitoring Report.

9.3.3. Post-Construction Longitudinal Profile. A qualified professional such as a fluvial geomorphologist, hydraulic engineer or qualified professional, shall collect a longitudinal profile following the proposed channel thalweg location at Kings Creek. This longitudinal profile shall be collected sufficiently upstream and downstream of the proposed Project conform locations at Kings Creek. CDFW may approve a reduction in the survey timeline if significant changes are not observed in years following large channel-forming events. Surveys shall be implemented during the low water period. The longitudinal profile shall survey over a ten-year monitoring period (Year 0 = Baseline) at minimum 200 feet upstream and downstream of the bridge as access and permission allow. The longitudinal profile analysis shall be provided as a sub-section of the On-Site Enhancement Plan Annual Monitoring Report.

9.3.4. On-Site Covered Species Monitoring. The Permittee shall be responsible for submission of an On-Site Covered Species Monitoring Plan that includes on-site streambank and riparian enhancement. The plan shall be submitted to CDFW for review and acceptance within a minimum of thirty days prior to the initiation of construction. The plan shall focus on the Covered Species and the utilization of proposed habitat enhancements through documentation of streambed substrate and particle size analysis using visual assessment in pools and a Wolman pebble count in riffles. Clean spawning-sized gravel (2- to 4-inch creek-run rock) shall be used for any gravel fill that is required for creek diversions. The Permittee shall remove fill material to the extent feasible during diversion removal; any rock that cannot be collected will be left in streambed to enhance covered-species habitat. Covered Species monitoring shall occur in conjunction with monitoring schedule in condition 9.3.1. CDFW may approve a reduction in the survey timeline depending on site conditions.

**10. Security:** The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 9 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:

**10.1. Master Funding Agreement.** Security for this ITP shall be governed by the Master Funding Agreement between the California Department of Fish and Wildlife and the California Department of Transportation, dated September 3, 2021.

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**10.2. Funding Memorandum.** Permittee has prepared and CDFW has approved, the project-specific Funding Memorandum required by the Master Funding Agreement and attached to this ITP as Attachment 3.

**10.3. Security Amount.** The Security shall be in the amount of **\$97,899.00**. This amount is based on the cost estimates identified in Condition of Approval 9.1 above and the Funding Memorandum.

**10.4. Funding of the Child Expenditure Authorization (EA).** Permittee has created and funded the Child EA with funds equivalent to the Security Amount.

**10.5. Compliance with the Master Funding Agreement.** Permittee shall complete all requirements set forth in the Master Funding Agreement and shall at all times comply with the terms and conditions of that Agreement.

Even if Security is provided, the Permittee must complete the required acquisition, protection and transfer of all HM lands and record any required conservation easements no later than 18 months from the effective date of this ITP. CDFW may require the Permittee to provide additional HM lands and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.

#### **IX. Amendment:**

This ITP may be amended as provided by California Code of Regulations, Title 14, section 783.6, subdivision (c), and other applicable law. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

#### **X. Stop-Work Order:**

If CDFW determines the Permittee has violated any term or condition of this ITP or has engaged in unlawful take, CDFW may issue Permittee a written stop-work order instructing the Permittee to suspend any Covered Activity for an initial period of up to 30 days or risk suspension or revocation of this ITP. CDFW can issue a stop-work order to prevent or remedy a violation of this ITP, including but not limited to the failure to comply with reporting or monitoring obligations, or to prevent the unauthorized take of any CESA endangered, threatened, or candidate species, regardless of whether that species is a Covered Species under this ITP. Permittee shall stop work immediately as directed by CDFW upon receipt of any such stop-work order. Upon written notice to Permittee, CDFW may extend any stop-work order issued to Permittee for a period not to exceed 30 additional days.

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If Permittee fails to remedy the violation or to comply with a stop-work order, CDFW may proceed with suspension and revocation of this ITP. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section 783.7, and any other applicable law. Neither the Designated Biologist nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

#### **XI. Liability:**

All terms and conditions of this ITP shall be binding upon each Permittee. Notwithstanding California Civil Code section 1431 or any other provision of law, each Permittee shall be jointly and severally liable for performance of all terms, conditions, and obligations of this ITP and shall be jointly and severally liable for any unauthorized take or other violations of this ITP, whether committed by Permittees or any person acting on behalf of one or more Permittees, including their officers, employees, representatives, agents or contractors and subcontractors. Any failure by one or more Permittees to comply with any term, condition, or obligation herein shall be deemed a failure to comply by all Permittees.

#### **XII. Compliance with Other Laws:**

This ITP sets forth CDFW's requirements for the Permittee to implement the Project pursuant to CESA. This ITP does not necessarily create an entitlement to proceed with the Project. Permittee is responsible for complying with all other applicable federal, state, and local law.

#### **XIII. Notices:**

The Permittee shall sign and return this ITP to CDFW. A manual or digital signature is acceptable, provided a digital signature complies with Government Code section 16.5. Digital signatures facilitated by CDFW will be automatically returned. Manual (wet) signatures on duplicate original paper copies shall be returned by the Permittee via registered first-class mail or overnight delivery to the following address:

Habitat Conservation Planning Branch  
California Department of Fish and Wildlife  
Attention: CESA Permitting Program  
Post Office Box 944209  
Sacramento, CA 94244-2090

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by email or registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name, Permittee, and ITP Number (2081-2021-012-03) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

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*Erin Chappell*, Regional Manager  
California Department of Fish and Wildlife  
Bay Delta Region  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534  
Telephone (707) 428-2002  
[R3CESA@wildlife.ca.gov](mailto:R3CESA@wildlife.ca.gov)

and a copy to:

Habitat Conservation Planning Branch  
California Department of Fish and Wildlife  
Attention: CESA Permitting Program  
Post Office Box 944209  
Sacramento, CA 94244-2090  
[CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov)

Unless Permittee is notified otherwise, CDFW's Regional Representative for purposes of addressing issues that arise during implementation of this ITP is:

*Robert Stanley*, Senior Environmental Scientist (Specialist)  
California Department of Fish and Wildlife  
Bay Delta Region  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534  
Telephone (707) 339-6534  
[Robert.Stanley@wildlife.ca.gov](mailto:Robert.Stanley@wildlife.ca.gov)

#### **XIV. Compliance with the California Environmental Quality Act:**

CDFW's issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, California Department of Transportation. (See generally Pub. Resources Code, §§ 21067, 21069). The lead agency's prior environmental review of the Project is set forth in the San Lorenzo River Bridge and Kings Creek Bridge Replacement Project (SCH No.: 2020120272) dated February 2021 that the California Department of Transportation certified for the San Lorenzo River Bridge and Kings Creek Bridge Replacement Project on February 9, 2021. At the time the lead agency certified the Mitigated Negative Declaration and approved the Project it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

This ITP, along with CDFW's related CEQA findings, which are available as a separate document, provide evidence of CDFW's consideration of the lead agency's Mitigated Negative Declaration for the Project and the environmental effects related to issuance of this ITP (CEQA Guidelines, § 15096, subd. (f)). CDFW finds that issuance of this ITP will not

result in any previously undisclosed potentially significant effects on the environment or a substantial increase in the severity of any potentially significant environmental effects previously disclosed by the lead agency. Furthermore, to the extent the potential for such effects exists, CDFW finds adherence to and implementation of the Conditions of Project Approval adopted by the lead agency, and that adherence to and implementation of the Conditions of Approval imposed by CDFW through the issuance of this ITP, will avoid or reduce to below a level of significance any such potential effects. CDFW consequently finds that issuance of this ITP will not result in any significant, adverse impacts on the environment.

## **XV. Findings Pursuant to CESA:**

These findings are intended to document CDFW's compliance with the specific findings requirements set forth in CESA and related regulations. (Fish & G. Code § 2081, subs. (b)-(c); Cal. Code Regs., tit. 14, §§ 783.4, subds, (a)-(b), 783.5, subd. (c)(2)).

CDFW finds based on substantial evidence in the ITP application, San Lorenzo River Bridge and Kings Creek Bridge Replacement Project Mitigated Negative Declaration, National Marine Fisheries Service Biological Opinion, the results of site visits and consultations, and the administrative record of proceedings, that issuance of this ITP complies and is consistent with the criteria governing the issuance of ITPs pursuant to CESA:

- (1) Take of Covered Species as defined in this ITP will be incidental to the otherwise lawful activities covered under this ITP;
- (2) Impacts of the taking on Covered Species will be minimized and fully mitigated through the implementation of measures required by this ITP and as described in the MMRP. Measures include: (1) permanent habitat protection; (2) establishment of avoidance zones; (3) worker education; and (4) Monthly Compliance reports. CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the [protection and management in perpetuity of 0.07 acres of compensatory habitat that is contiguous with other protected Covered Species habitat and/or is of higher quality than the habitat being destroyed by the Project, along with the minimization, monitoring, reporting, and funding requirements of this ITP minimizes and fully mitigates the impacts of the taking caused by the Project;
- (3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;
- (4) The measures required by this ITP maintain Permittee's objectives to the greatest extent possible;
- (5) All required measures are capable of successful implementation;

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- (6) This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;
- (7) Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and
- (8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

#### **XVI. Attachments:**

- FIGURE 1                Map of Project Location for 05-1H470
- FIGURE 2                95% Project Plans for 05-1H470
- ATTACHMENT 1        Mitigation Monitoring and Reporting Program
- ATTACHMENT 2        Biologist Resume Form
- ATTACHMENT 3        Master Funding Agreement Funding Memorandum

**ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE**

on 6/22/2022.

DocuSigned by:

*Erin Chappell*

B77E0A6241EF436...

Erin Chappell, Regional Manager  
Bay Delta Region

**ACKNOWLEDGMENT**

The undersigned: (1) warrants that he or she is acting as a duly authorized representative of the Permittee, (2) acknowledges receipt of this ITP, and (3) agrees on behalf of the Permittee to comply with all terms and conditions.

DocuSigned by:

*Jennifer Moonjian*

By:

066705854C40424...

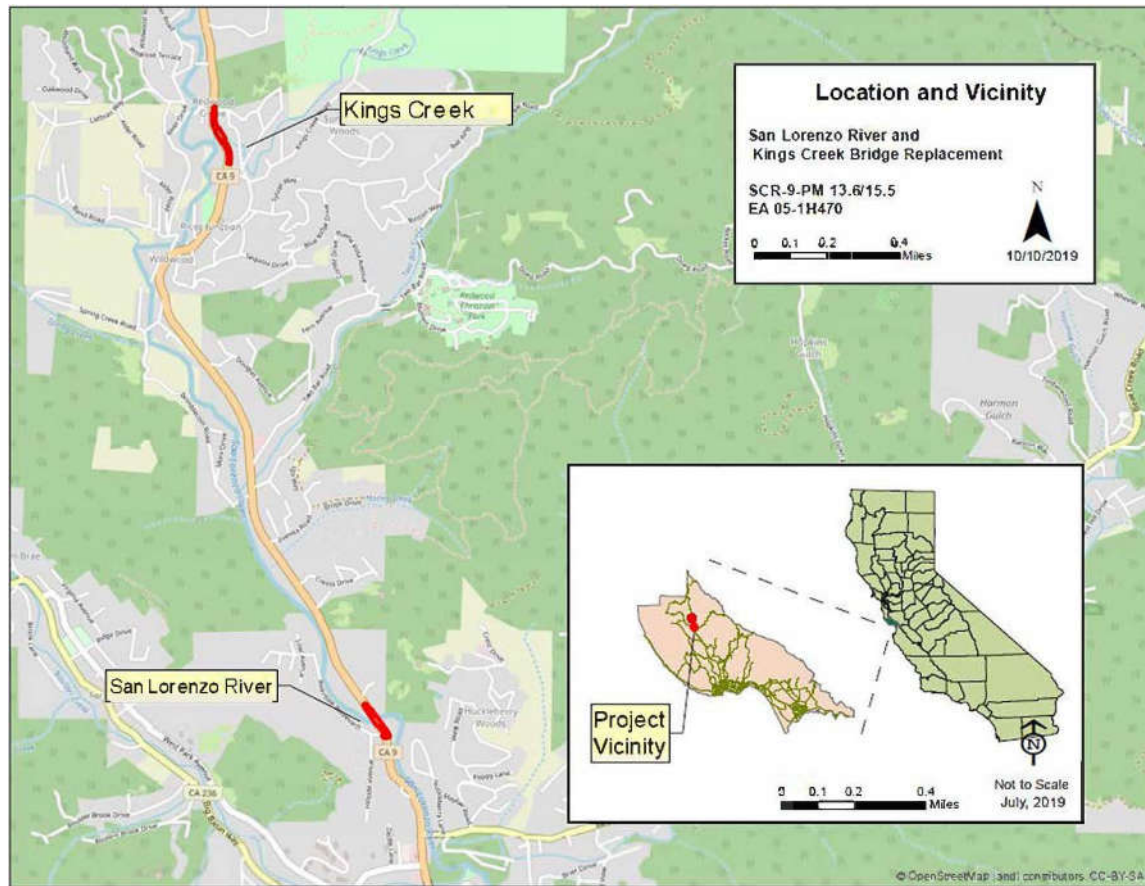
Date: 6/22/2022

Printed Name: Jennifer Moonjian

Title: Senior Environmental Planner

Incidental Take Permit  
No. 2081-2022-012-03

CALIFORNIA DEPARTMENT OF TRANSPORTATION  
STATE ROUTE 9 – KINGS CREEK BRIDGE REPLACEMENT PROJECT (EA 05-1H470)



**Figure 1. Project Location and Vicinity**

INDEX OF PLANS

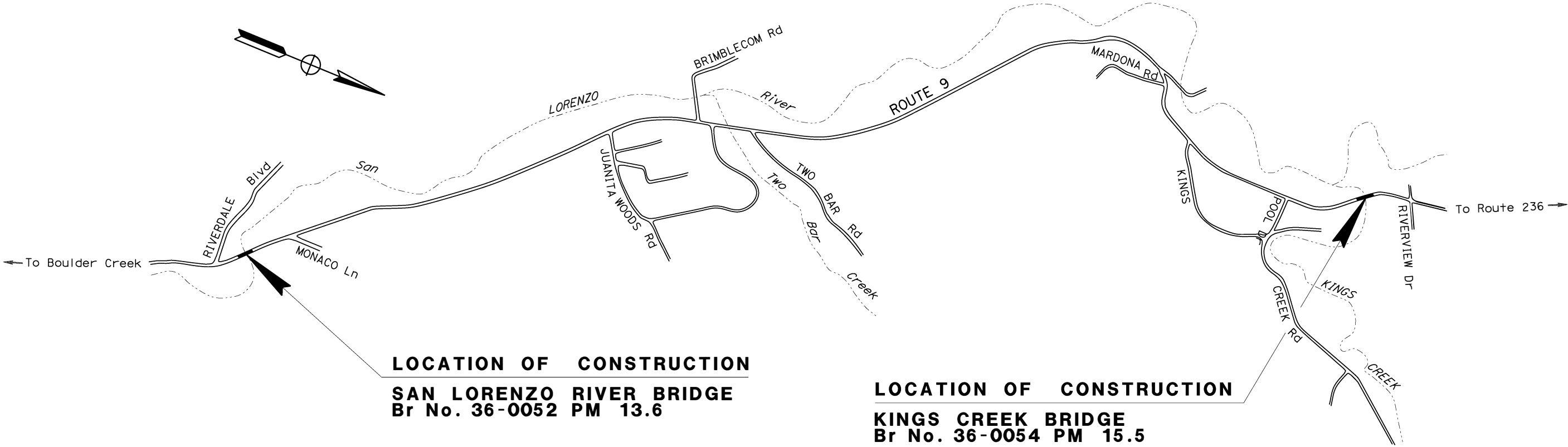
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANS FOR BUILDING CONSTRUCTION  
STATE HIGHWAY  
IN SANTA CRUZ COUNTY NEAR BOULDER CREEK  
AT SAN LORENZO RIVER BRIDGE  
AND AT KINGS CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED OCTOBER 2018

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6, 15.5	1	X



LOCATION MAP



LOCATION OF CONSTRUCTION  
SAN LORENZO RIVER BRIDGE  
Br No. 36-0052 PM 13.6

LOCATION OF CONSTRUCTION  
KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

NO SCALE

PROJECT MANAGER	DOUGLAS HESSING
DESIGN MANAGER	ARTHUR RAMIREZ

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES)  
OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

PROJECT ENGINEER  
REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS  
OFFICERS OR AGENTS SHALL NOT BE  
RESPONSIBLE FOR THE ACCURACY OR  
COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	05-1H470
PROJECT ID	0516000078

REVISOR

BY

DATE


DESIGNED BY

CHECKED BY

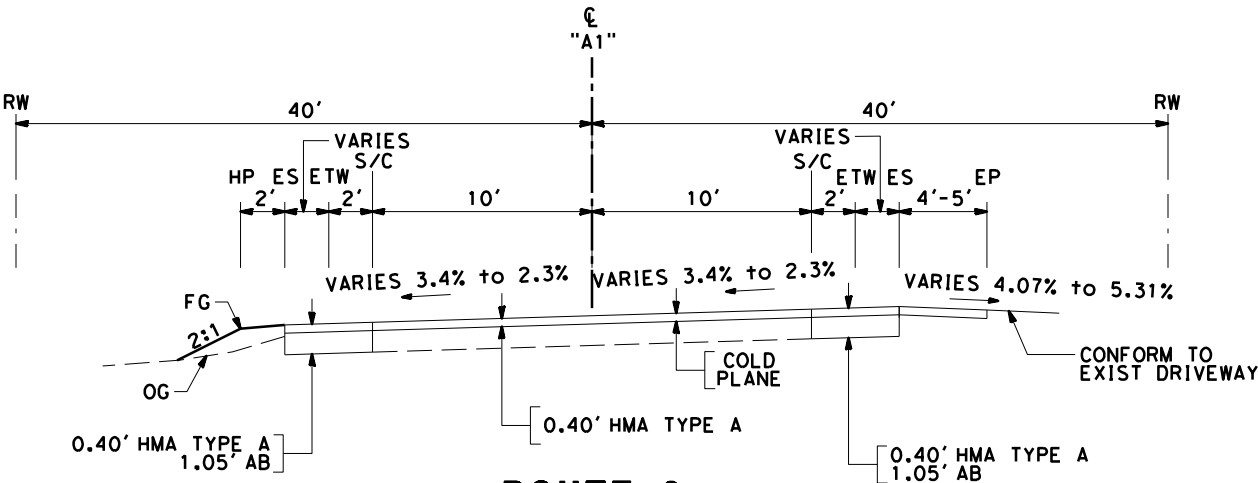
FUNCTIONAL SUPERVISOR

DESIGN

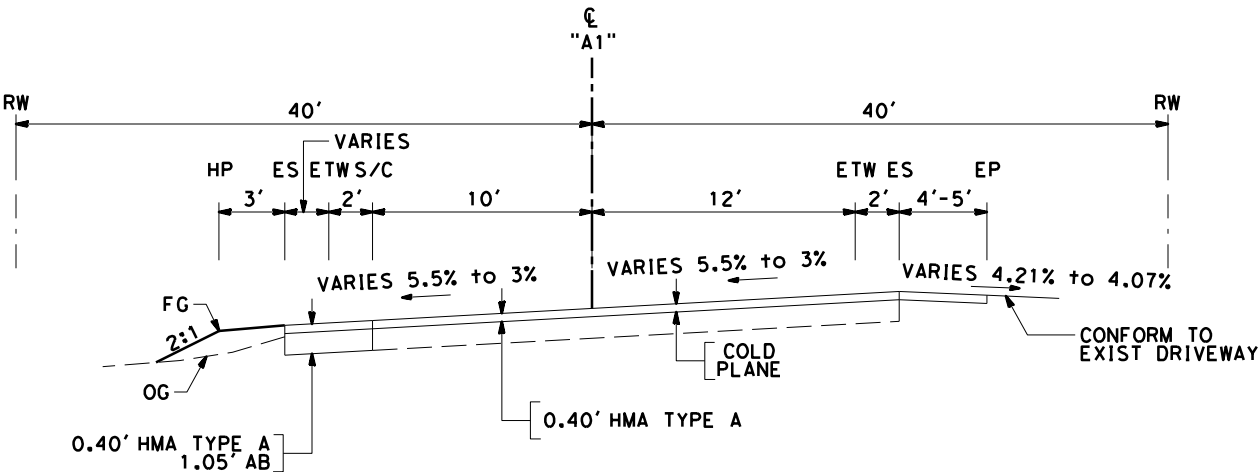
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



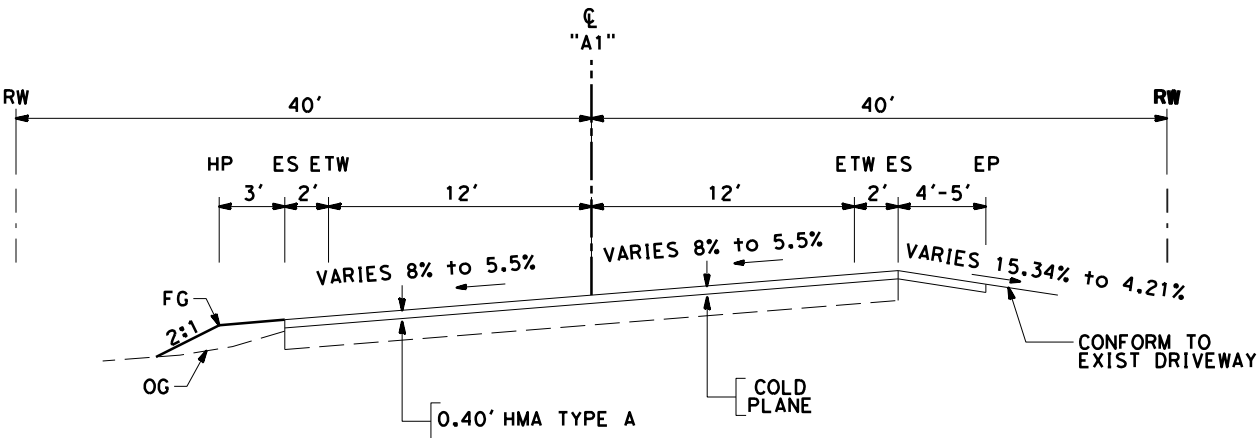
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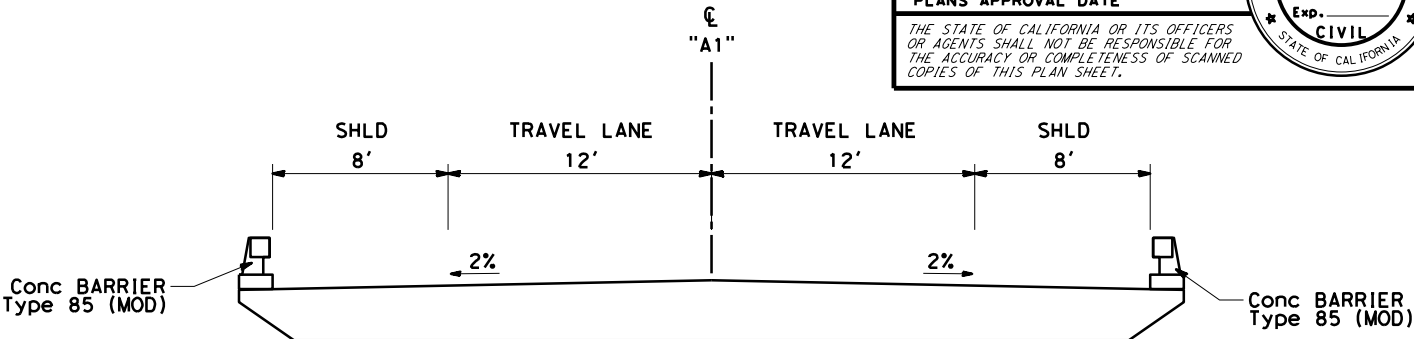
**ROUTE 9**  
Sta 28+88.00 TO 29+08.00



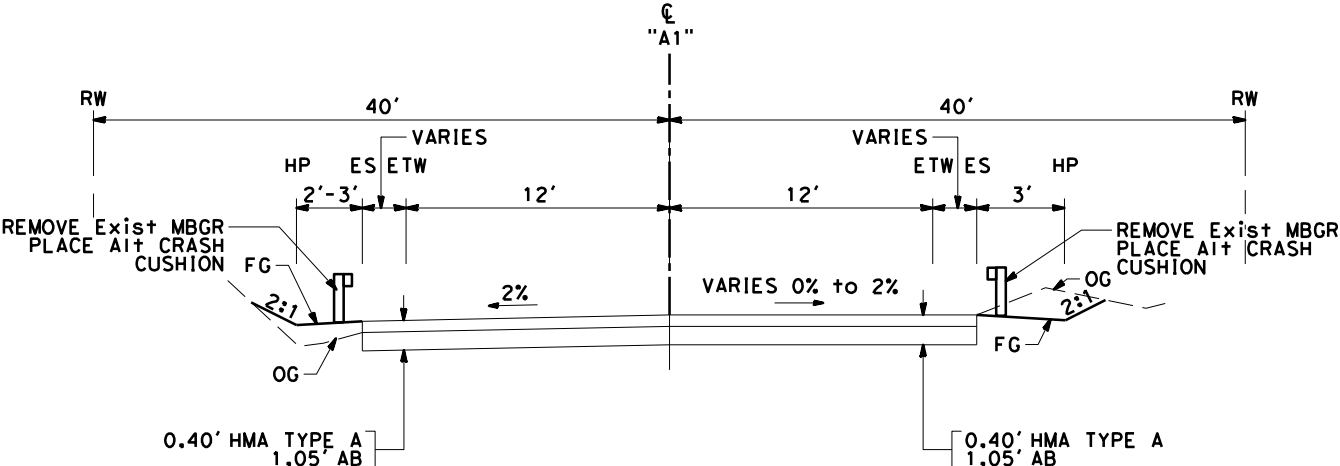
**ROUTE 9**  
\*Sta 28+51.00 TO 28+88.00



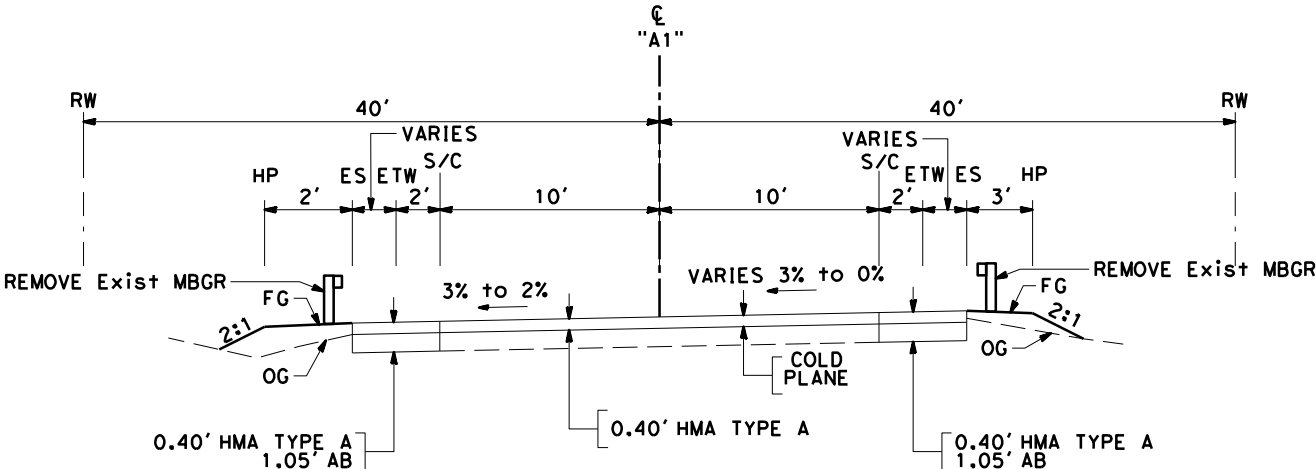
**ROUTE 9**  
Sta 28+00.00 TO 28+51.00



**ROUTE 9**  
Sta 29+93.75 TO 31+00.00



**ROUTE 9**  
Sta 29+45.00 TO 29+93.75



**ROUTE 9**  
Sta 29+08.00 TO 29+45.00

**TYPICAL CROSS SECTIONS**  
**X-1**

**SAN LORENZO RIVER BRIDGE**

NO SCALE

NOTES:

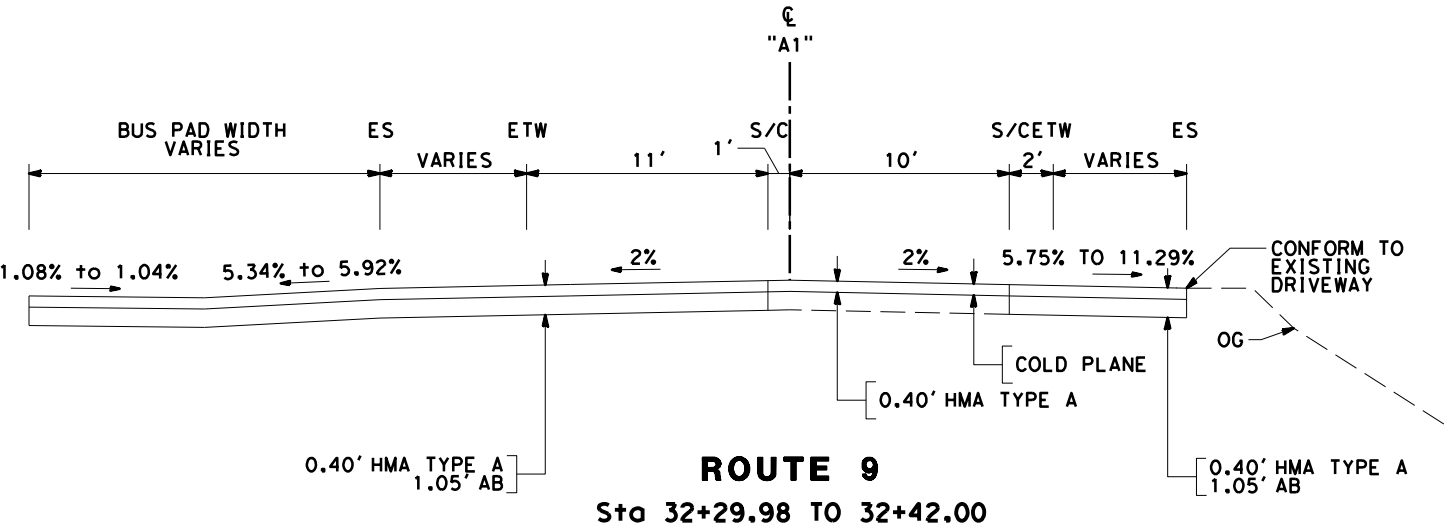
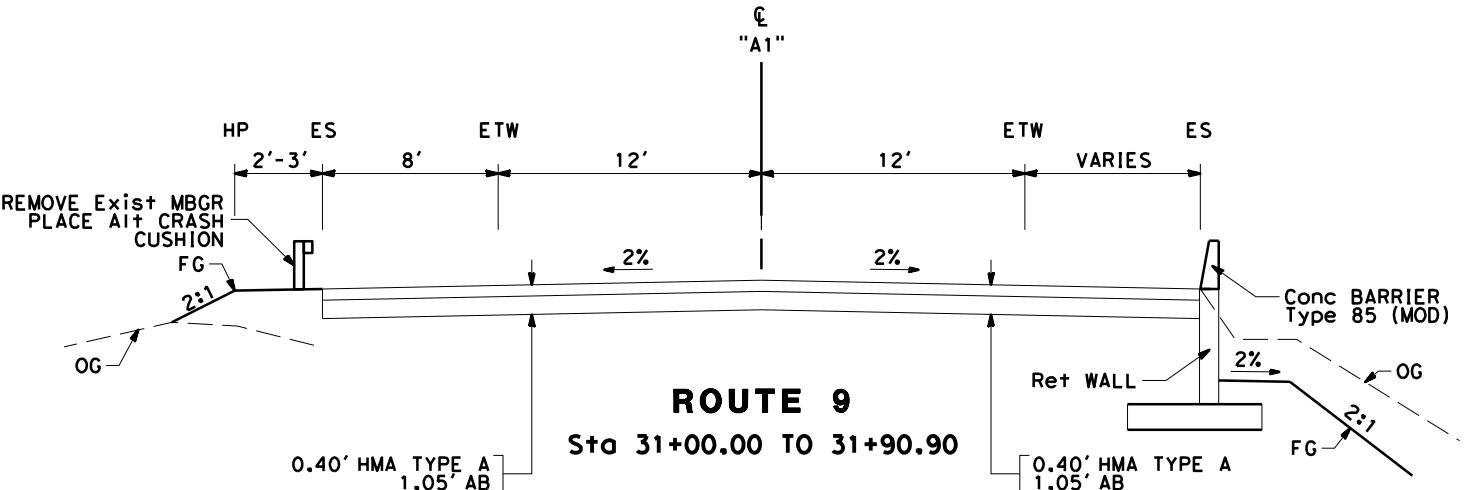
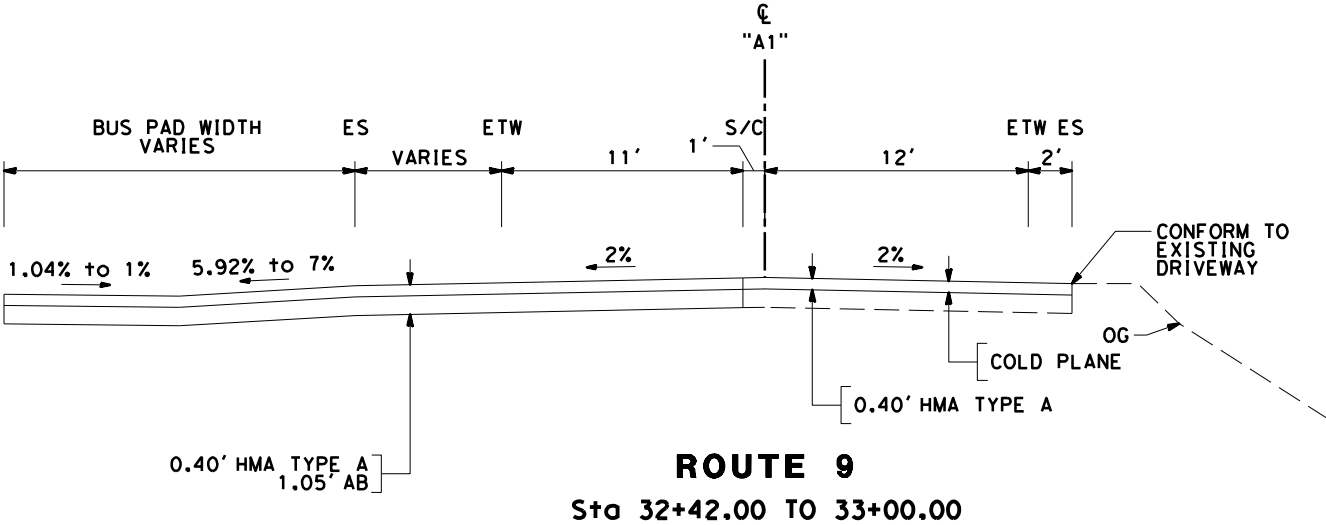
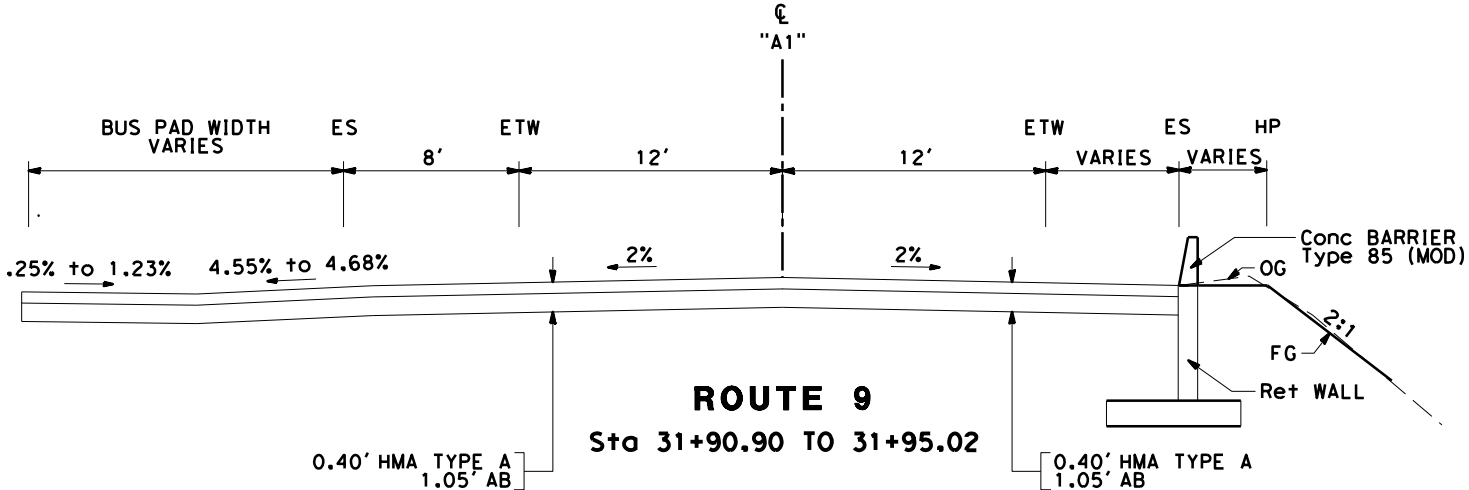
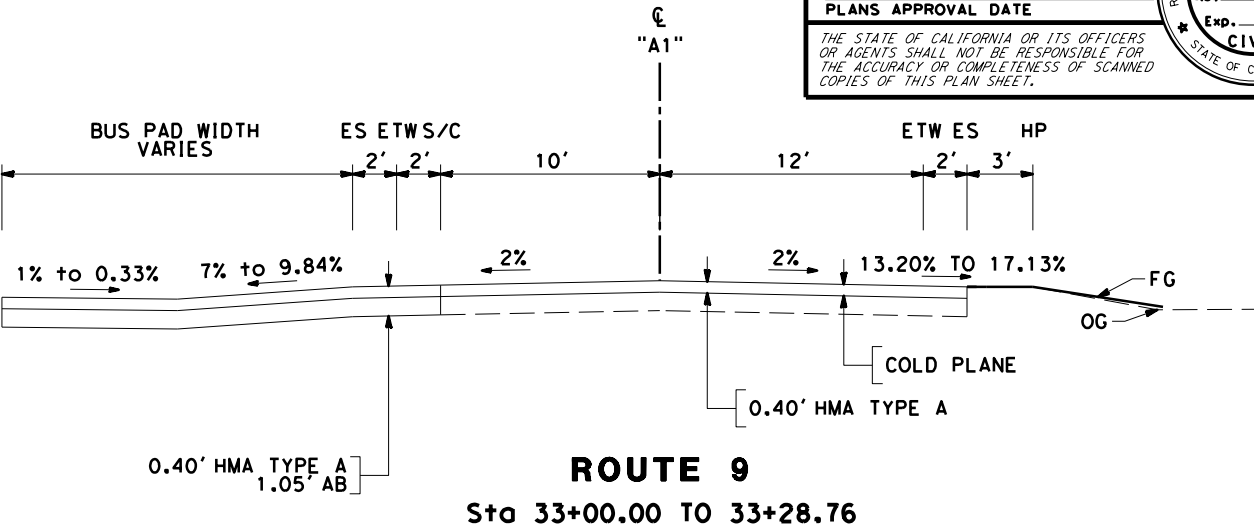
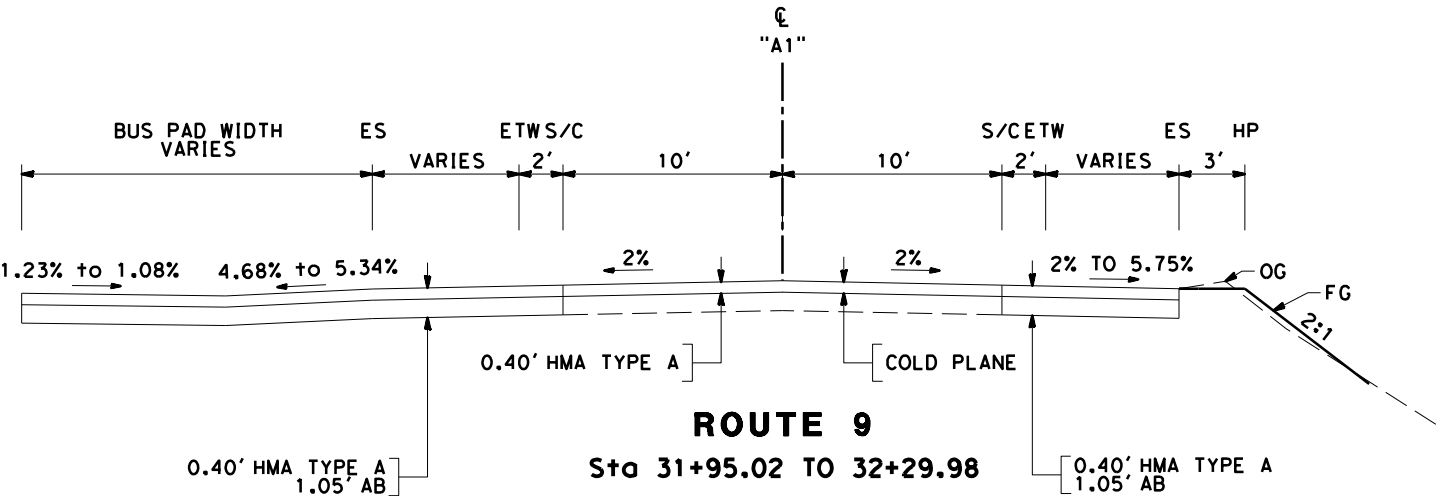
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

REGISTERED PROFESSIONAL ENGINEER

No. Exp. CIVIL

STATE OF CALIFORNIA



TYPICAL CROSS SECTIONS  
X-2

SAN LORENZO RIVER BRIDGE

NO SCALE

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.  
2. FOR APPROACH SLAB DETAILS, SEE STRUCTURAL PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

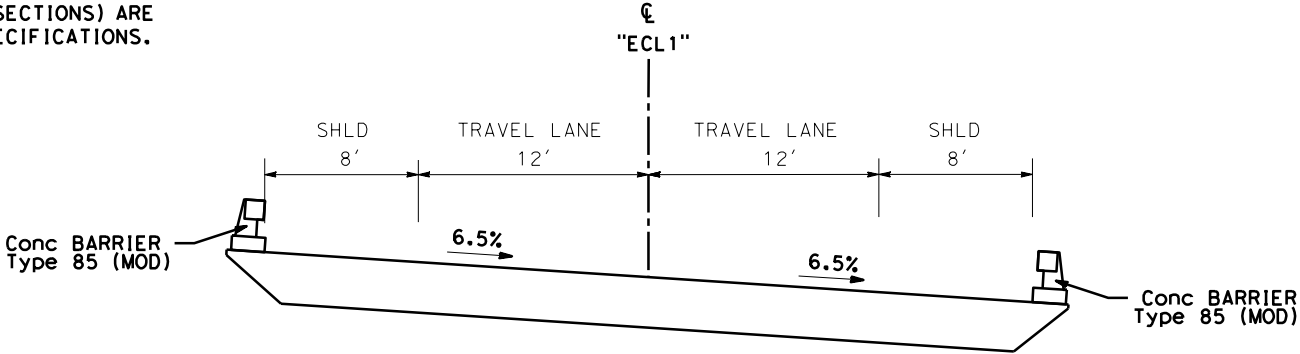
REGISTERED PROFESSIONAL ENGINEER

No.

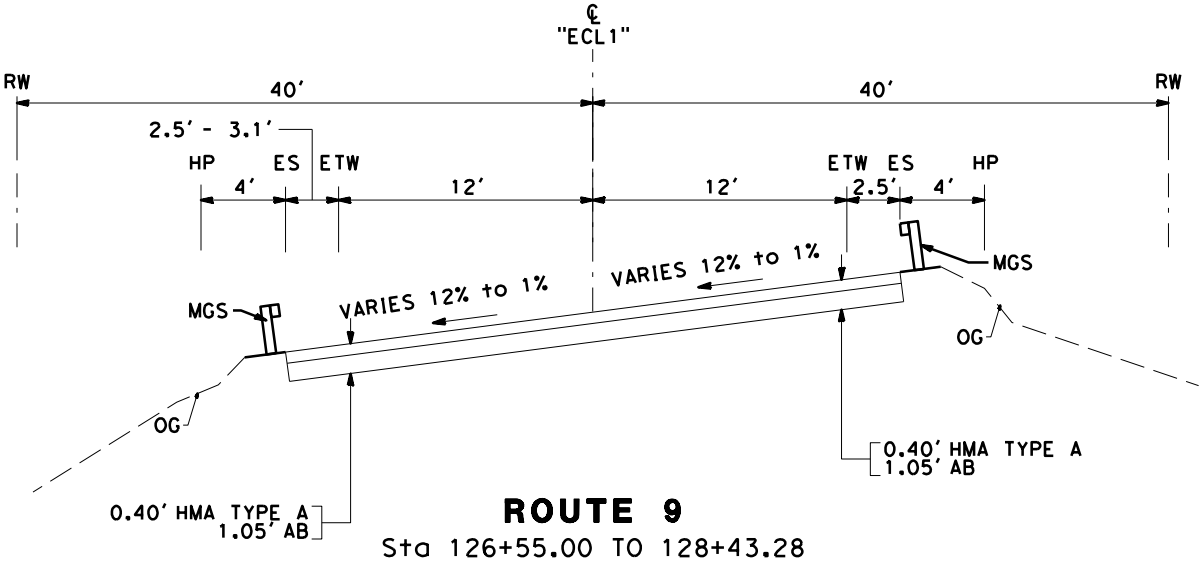
Exp.

CIVIL

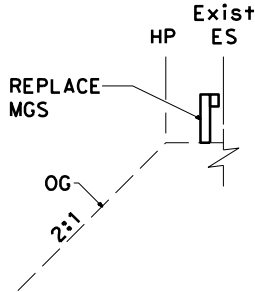
STATE OF CALIFORNIA



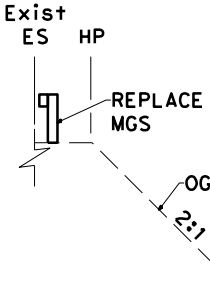
KINGS CREEK BRIDGE (# 36-0054)  
ROUTE 9  
Sta 129+64.50 TO 130+63.50



ROUTE 9  
Sta 126+55.00 TO 128+43.28

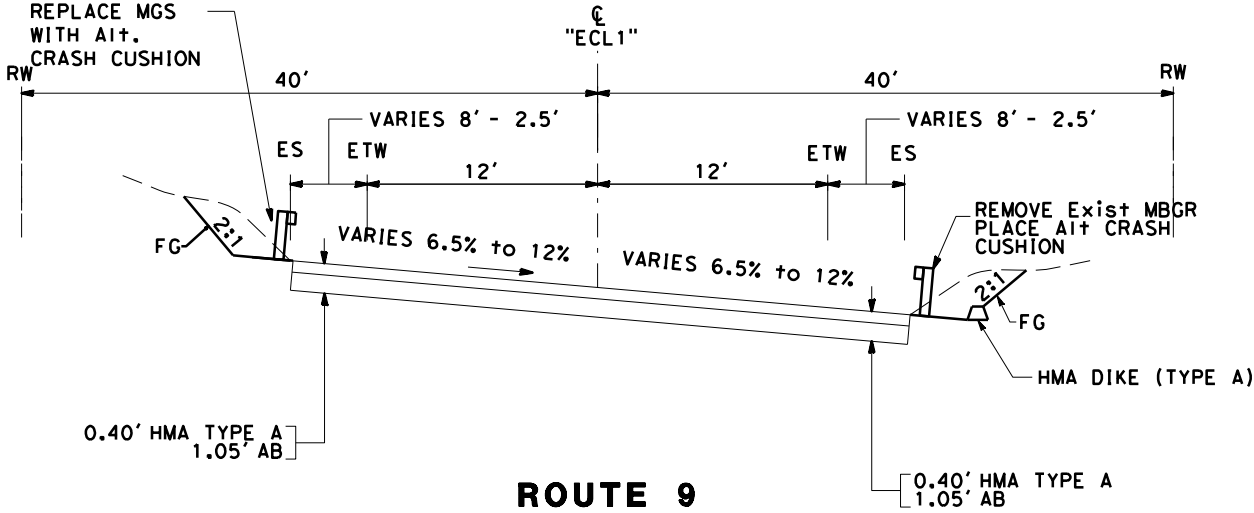


ROUTE 9  
Sta 126+20.11 TO 126+55.00

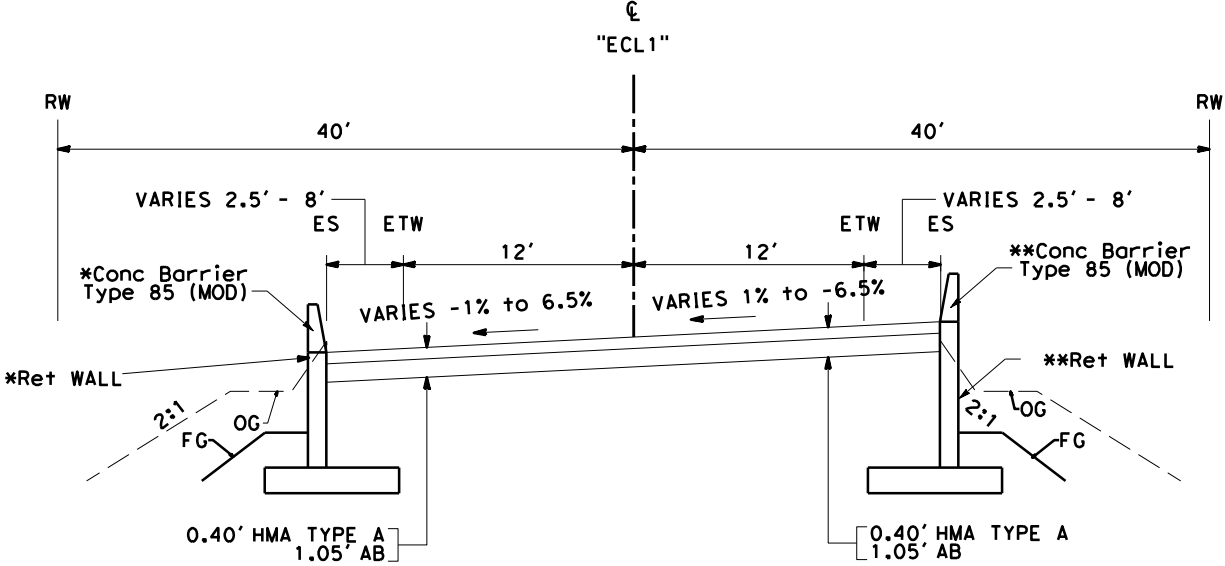


ROUTE 9  
Sta 125+22.20 TO 126+55.00

KINGS CREEK BRIDGE



ROUTE 9  
Sta 130+63.50 TO 132+19.00



ROUTE 9  
\*Sta 128+43.28 TO 129+64.50  
\*\*Sta 128+70.00 TO 129+64.50

TYPICAL CROSS SECTIONS  
NO SCALE  
X-3

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ENCROACHING OBJECTS ARE TO BE REMOVED BY OTHERS.
3. ON L-1, AREA AROUND BUS SHELTER BETWEEN RESIDENTIAL FENCE AND BUS PAD WILL BE COLD PLANED AND PAVED WITH HMA. BUS PAD WILL HAVE THE SAME STRUCTURAL SECTION AS THE TRAVELWAY
4. REFER TO LANDSCAPE PLANS FOR WETLAND EXCAVATION AND BACKFILL LIMITS

No. ⊕	R	Δ	T	L
1	400'	34°08'32"	122.83'	238.36'

<input type="checkbox"/>	DESCRIPTION	LOCATION - "A1" LINE
a	FENCE	Sta 31+13.22 TO 31+89.30
b	FENCE	Sta 32+15.21 TO 32+60.51

**THVF**    **TEMPORARY HIGH VISIBILITY FENCE**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5		XX

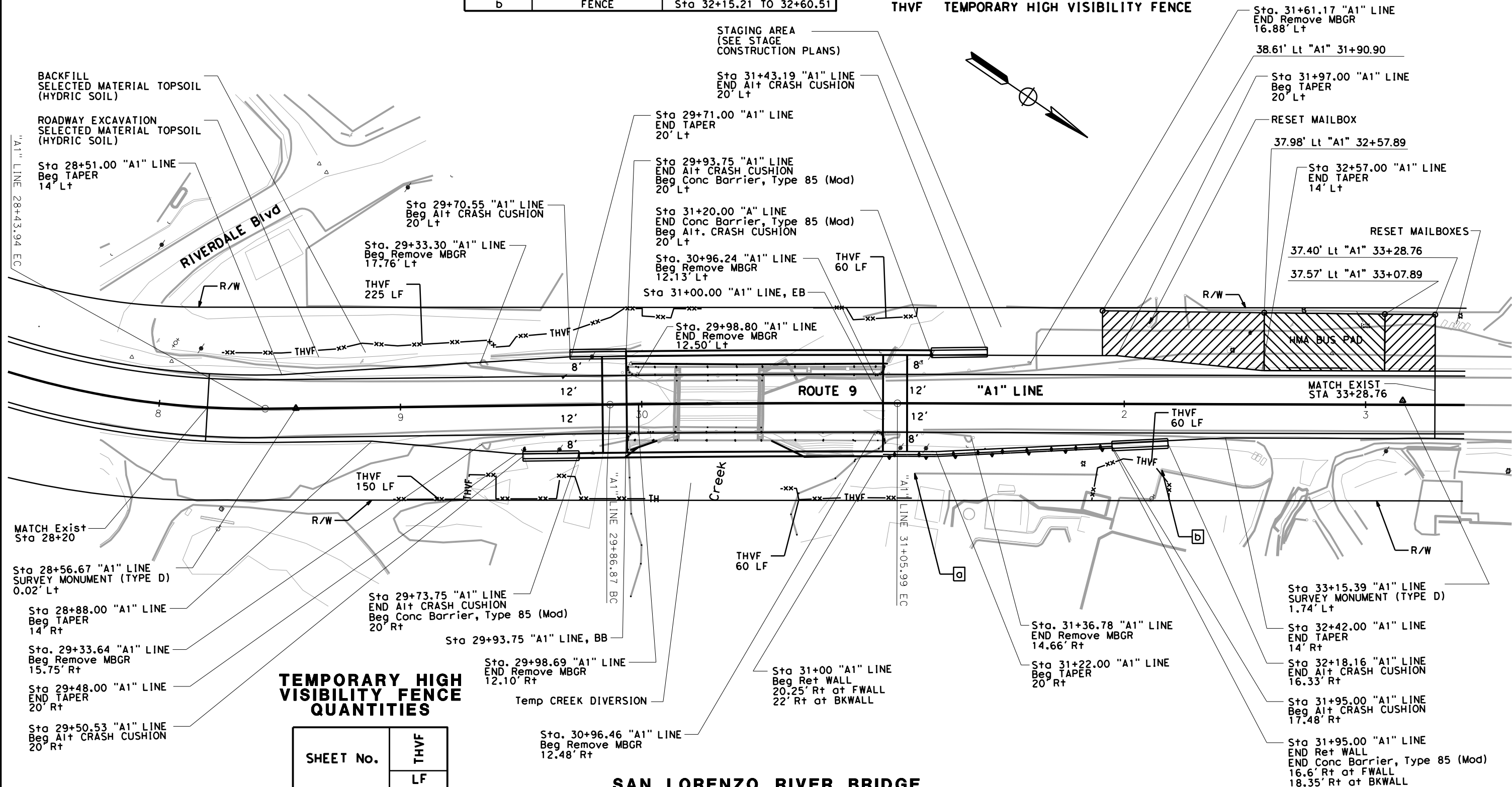
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA




**LAYOUT**  
**L-1**

**SCALE: 1"=20'**

LAST REVISION	DATE PLOTTED => 12/6/2021
05-13-21	TIME PLOTTED => 11:49:57 AM

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

<input type="checkbox"/>	DESCRIPTION	LOCATION - "ECL1" LINE
c	FENCE	Sta 127+81.48 TO 128+35.03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		XX
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <u>REGISTERED CIVIL ENGINEER</u> </div> <div> <u>DATE</u> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div> <u>PLANS APPROVAL DATE</u> </div> <div style="text-align: center;">  </div> </div> <p><i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i></p>					



**SCALE: 1"=20'**

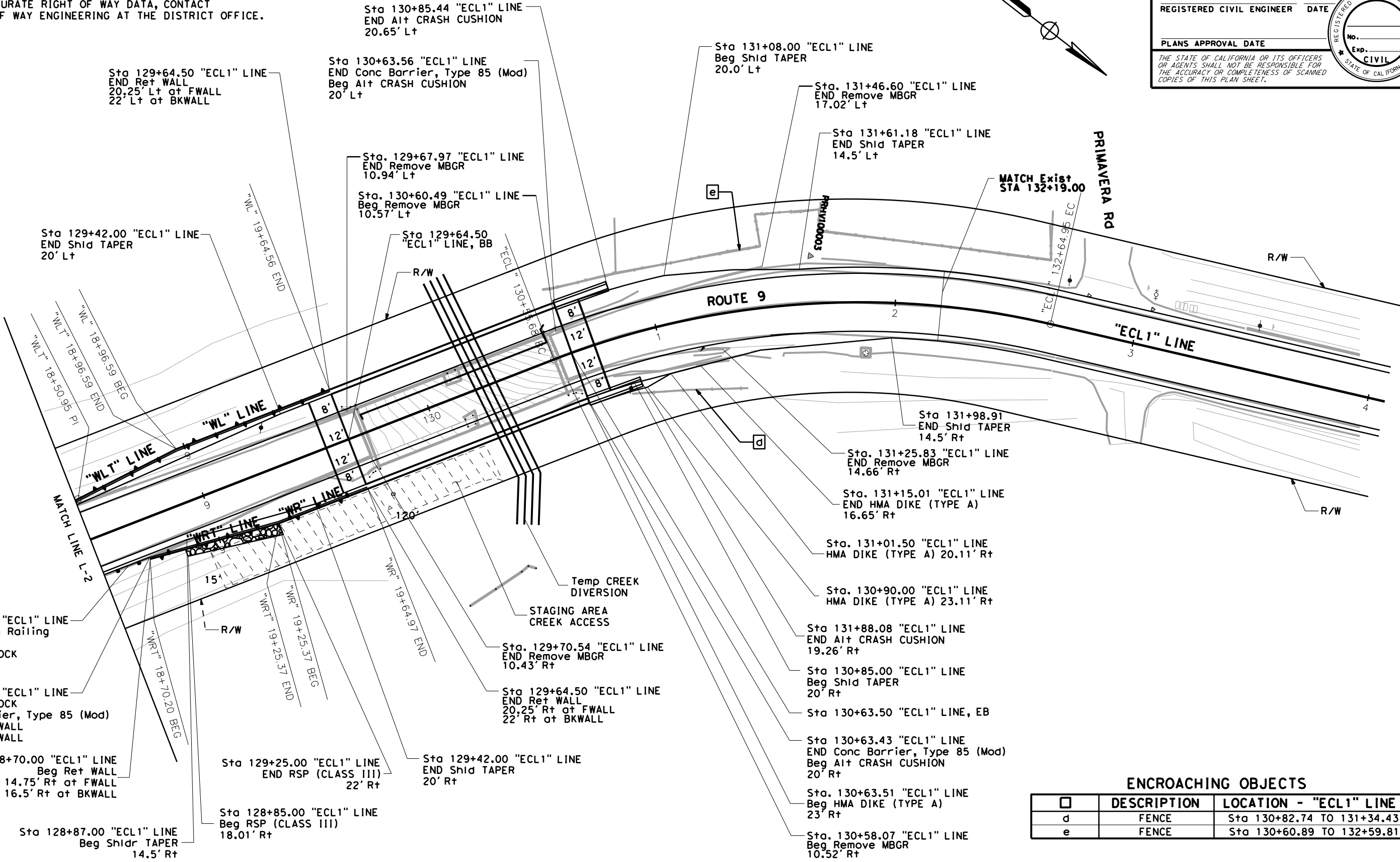
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		XX

REGISTERED CIVIL ENGINEER    DATE  
PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
No.    Exp.    CIVIL  
STATE OF CALIFORNIA

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



ENCROACHING OBJECTS		
	DESCRIPTION	LOCATION - "ECL1" LINE
d	FENCE	Sta 130+82.74 TO 131+34.43
e	FENCE	Sta 130+60.89 TO 132+59.81

KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

LAYOUT  
L-3

SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR	ARTHUR RAMIREZ
		CALCULATED- DESIGNED BY	CHECKED BY
		REVISOR BY	DATE
		REVISOR BY	DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		06 - DESIGN		FUNCTIONAL SUPERVISOR ARTHUR RAMIREZ		CALCULATED- DESIGNED BY CHECKED BY		JOHNNY REYES		REVISED BY DATE REVISED		10% 5% 0% -5% -10% -15%		15% 10% 5% 0% -5% -10% -15%		05		SCr		9		13.6/15.5		SHEET No.		TOTAL SHEETS		REGISTERED CIVIL ENGINEER DATE PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.		No. Exp. CIVIL STATE OF CALIFORNIA	
STATION		CY		Exc		Emb		27+00		8		9		30+00		1		2		33+00		TOTAL									

STATION		CY		Exc		Emb		27+00		8		9		30+00		1		2		33+00		TOTAL	
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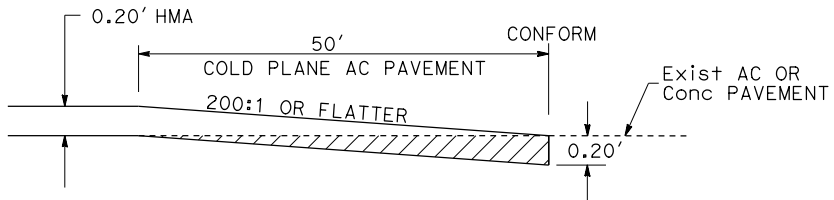
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LAST REVISION	DATE PLOTTED => 12/7/2021
05-13-21	

[illegible]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	??	???
			00/00/00		
REGISTERED CIVIL ENGINEER			DATE		
XX-XX-XX					
PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					

LEGEND (THIS SHEET ONLY):

 - COLD PLANE AC PAVEMENT

**CONFORM TAPER  
AT BEGIN/END CONSTRUCTION**

## BRIDGE TABLE

PM	BRIDGE NAME	BRIDGE No.
13.6	SAN LORENZO BRIDGE	42-0036

## CONSTRUCTION DETAILS

NO SCALE

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

ARTHER RAMIREZ

FUNCTIONAL SUPERVISOR

CHECKED BY

DESIGNED BY

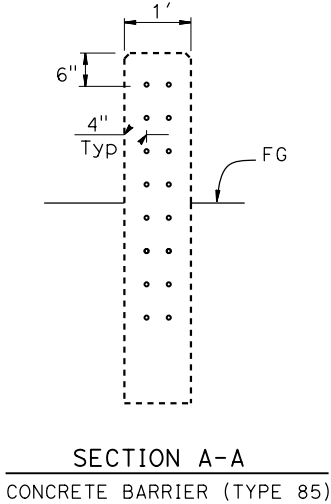
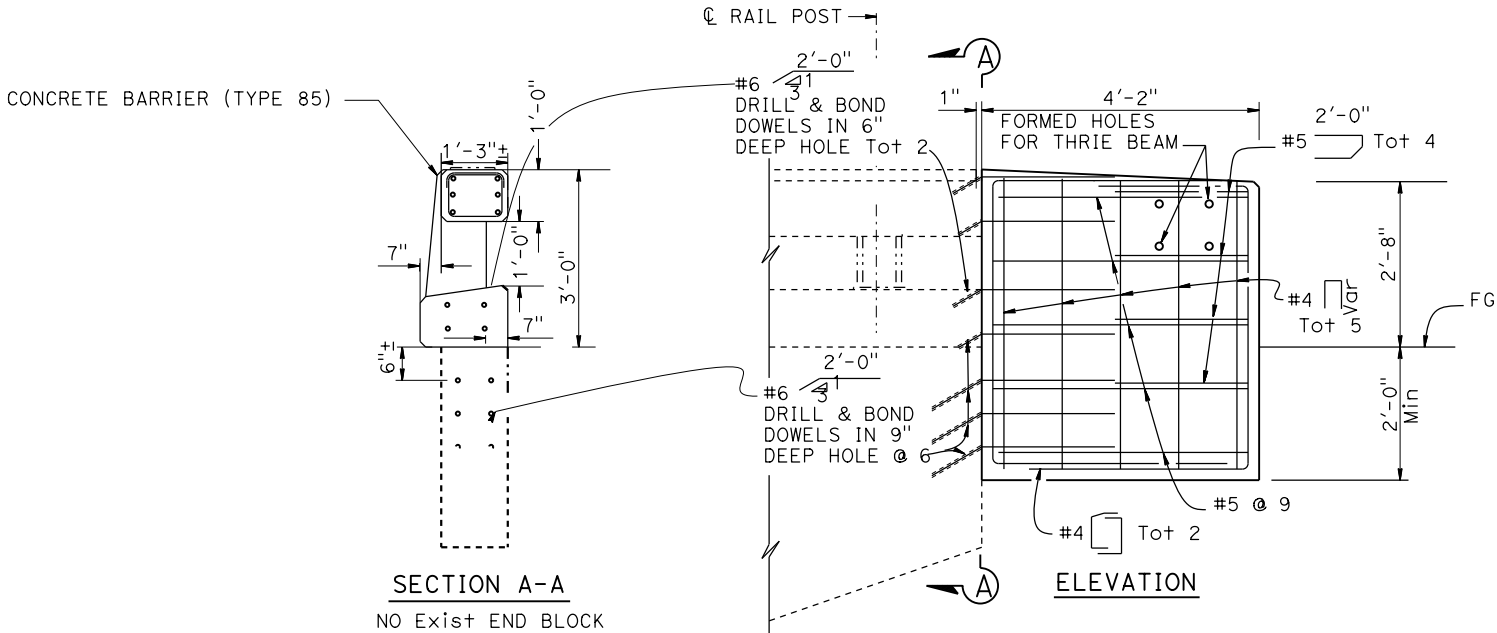
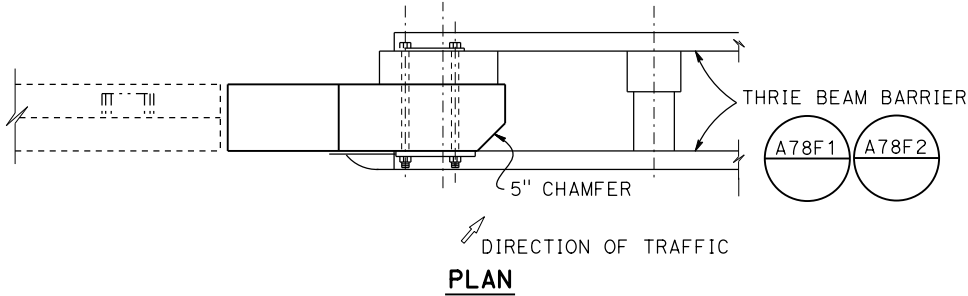
HARJINDER CHHINA

REVISOR

DATE

REVISION

- LEGEND (THIS SHEET ONLY):
- COLD PLANE AC PAVEMENT  
RHMA-G
  - COLD PLANE AC PAVEMENT  
HMA (TYPE A)
  - HMA (TYPE A)



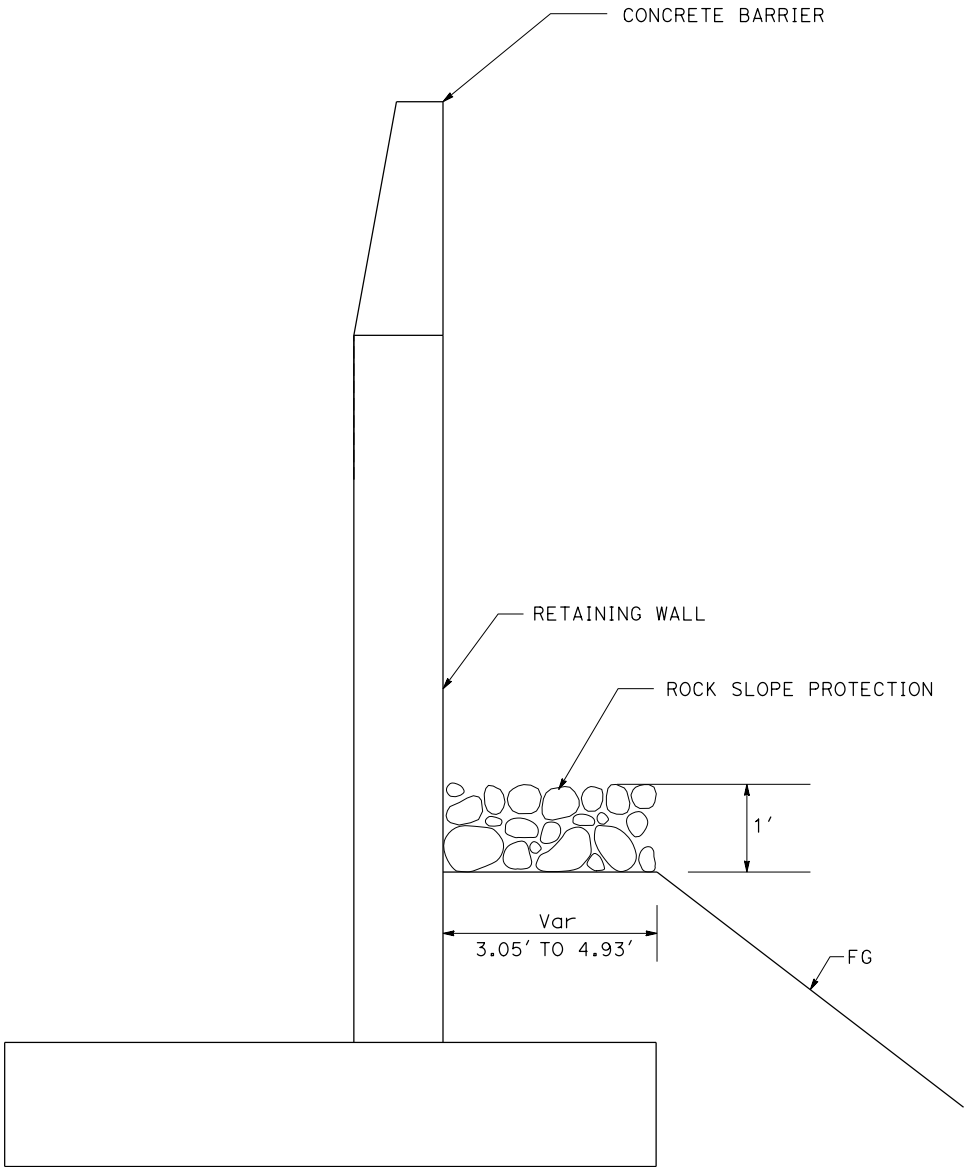
Conc BARRIER TRANSITION

KINGS CREEK PM 13.6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5	??	???
			00/00/00		
REGISTERED CIVIL ENGINEER			DATE		
XX-XX-XX					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

REGISTERED PROFESSIONAL ENGINEER  
No.  
Exp.  
CIVIL  
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	HARJINDER CHHINA	REVISED BY	
<b>etCulttrans®</b>	ARTHUR RAMIREZ	CHECKED BY	JOHNNY REYES	DATE REVISED	
<b>06-DESIGN</b>					



## ROCK SLOPE PROTECTION

Sta 128+85 TO Sta 129+25 "ECL1" LINE

APPROVED FOR DRAINAGE WORK ONLY

# DRAINAGE DETAILS

## DD-1

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5	??	???
			00-00-00		
REGISTERED CIVIL ENGINEER			DATE		
XX-XX-XX					
PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					

RELOCATE SERVICE WATER LINES

R/W



W3

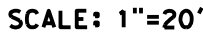
W3A

RELOCATE WATER METER

RELOCATE OVERHEAD TELEPHONE


SCALE: 1"=20'

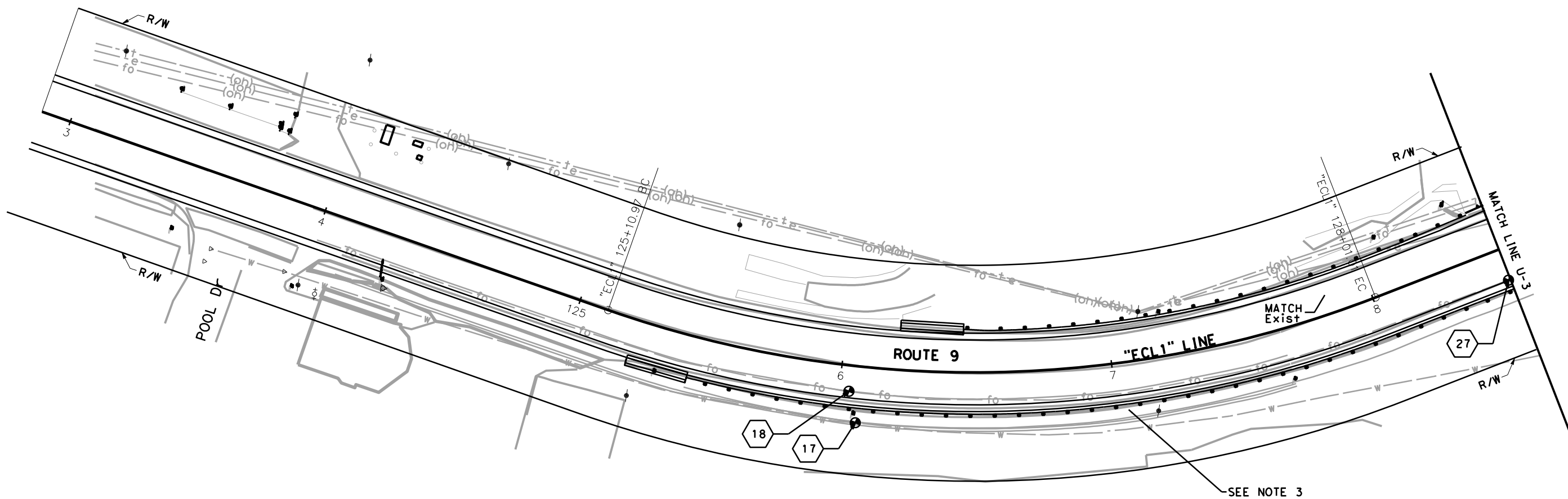
OH	OVERHEAD
UG	UNDERGROUND
	POSITIVE LOCATION NUMBER
	POSITIVE LOCATION



LAST REVISION 10-11-20  
DATE PLOTTED => 12/7/2021  
TIME PLOTTED => 4:19:44 PM

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		XX
<div style="display: flex; justify-content: space-between;"> <div> <u>REGISTERED CIVIL ENGINEER</u> </div> <div> <u>DATE</u> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <u>PLANS APPROVAL DATE</u> </div> <div style="text-align: center;">  </div> </div> <p><i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i></p>					



KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

## POSITIVE LOCATION INFORMATION

(X)	UTILITY OWNERSHIP	DESCRIPTION	LOCATION	UTILITY OR OTHER FOUND	DEPTH
17	SAN LORENZO VALLEY WATER DISTRICT	WATER	SR 9	NONE FOUND	7.00'
18	AT&T	FIBER OPTIC CABLE	SR 9	NONE FOUND	1.25'
27	AT&T	FIBER OPTIC CABLE	SR 9	NONE FOUND	8.00'

# UTILITY PLAN U-2

**SCALE: 1"=20'**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

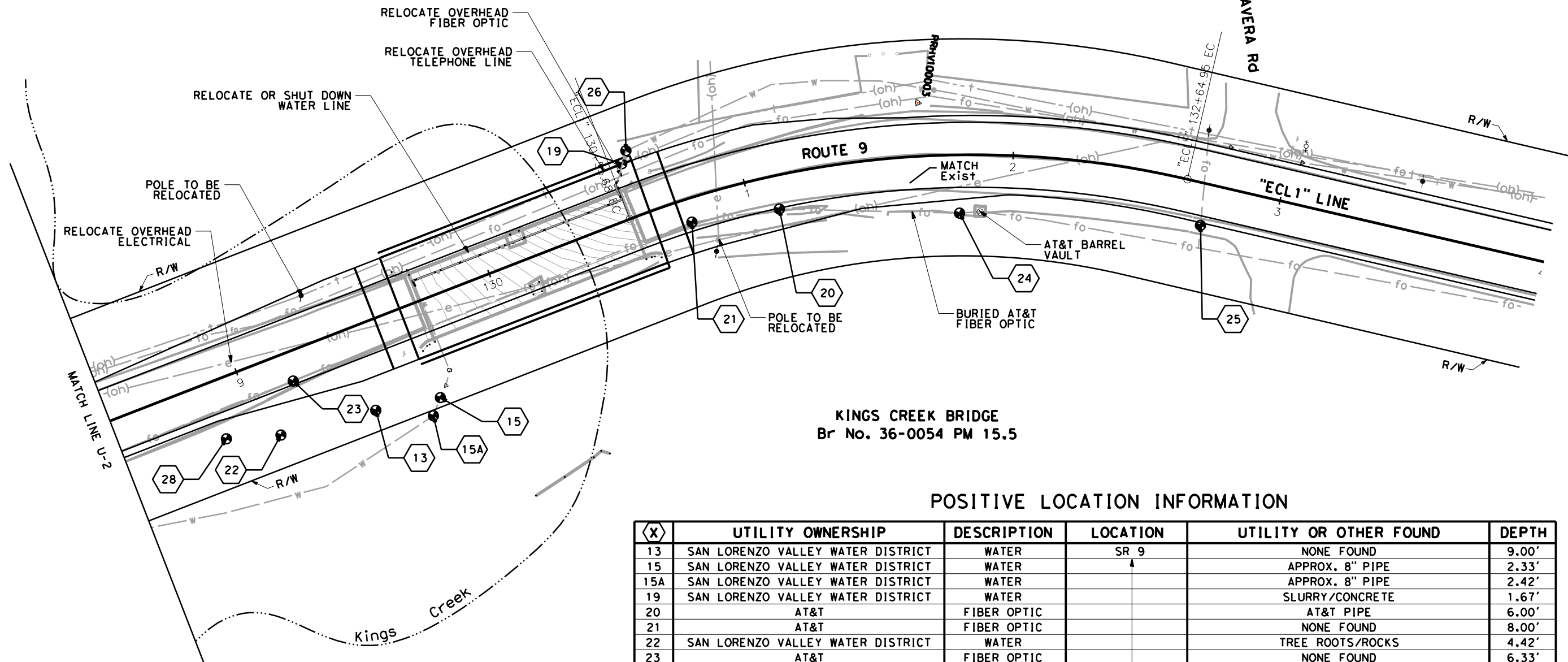
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	ScR	9	13.6/15.5		XX

<u>REGISTERED CIVIL ENGINEER</u>		<u>DATE</u>
<u>PLANS APPROVAL DATE</u>		

*THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.*

## POSITIVE LOCATION INFORMATION

(X)	UTILITY OWNERSHIP	DESCRIPTION	LOCATION	UTILITY OR OTHER FOUND	DEPTH
13	SAN LORENZO VALLEY WATER DISTRICT	WATER	SR 9	NONE FOUND	9.00'
15	SAN LORENZO VALLEY WATER DISTRICT	WATER	↑	APPROX. 8" PIPE	2.33'
15A	SAN LORENZO VALLEY WATER DISTRICT	WATER		APPROX. 8" PIPE	2.42'
19	SAN LORENZO VALLEY WATER DISTRICT	WATER		SLURRY/CONCRETE	1.67'
20	AT&T	FIBER OPTIC		AT&T PIPE	6.00'
21	AT&T	FIBER OPTIC		NONE FOUND	8.00'
22	SAN LORENZO VALLEY WATER DISTRICT	WATER		TREE ROOTS/ROCKS	4.42'
23	AT&T	FIBER OPTIC		NONE FOUND	6.33'
24	AT&T	FIBER OPTIC		AT&T PIPE	4.00'
25	AT&T	FIBER OPTIC		PIPE FOUND (PERPENDICULAR TO ROADWAY)	3.25'
26	SAN LORENZO VALLEY WATER DISTRICT	WATER		8" WATER	2.50"
28	SAN LORENZO VALLEY WATER DISTRICT	WATER	SR 9	NONE FOUND	9.00'

# UTILITY PLAN U-3

**SCALE: 1"=20'**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

ARTHUR RAMIREZ

CALCULATED-DESIGNED BY

CHECKED BY

DIANA ROSAS

JOHNNY REYES

REVISED BY

DATE REVISED

- NOTE:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - ONE-WAY TRAFFIC CONTROL REQUIRED
  - ALL WORK DONE BEHIND K-RAIL
  - CLOSURE POUR TO BE DONE IN STAGE 2

- CONSTRUCTION - STAGE 1**
- WORK DONE FOR SOUTHBOUND SIDE  
SB TRAFFIC SHIFTED TO NB LANE FOR ONE WAY TRAFFIC
- DEMO AND RECONSTRUCT WEST SIDE OF STRUCTURE, AS SHOWN IN SECTION A-A
  - WIDEN SHOULDER AND TAPER TO Exist
  - INSTALL GUARDRAIL

- LEGEND:**
- CONSTRUCTION THIS STAGE
  - CONSTRUCTION COMPLETED IN PREVIOUS STAGE
  - STAGING AREA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	53	XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

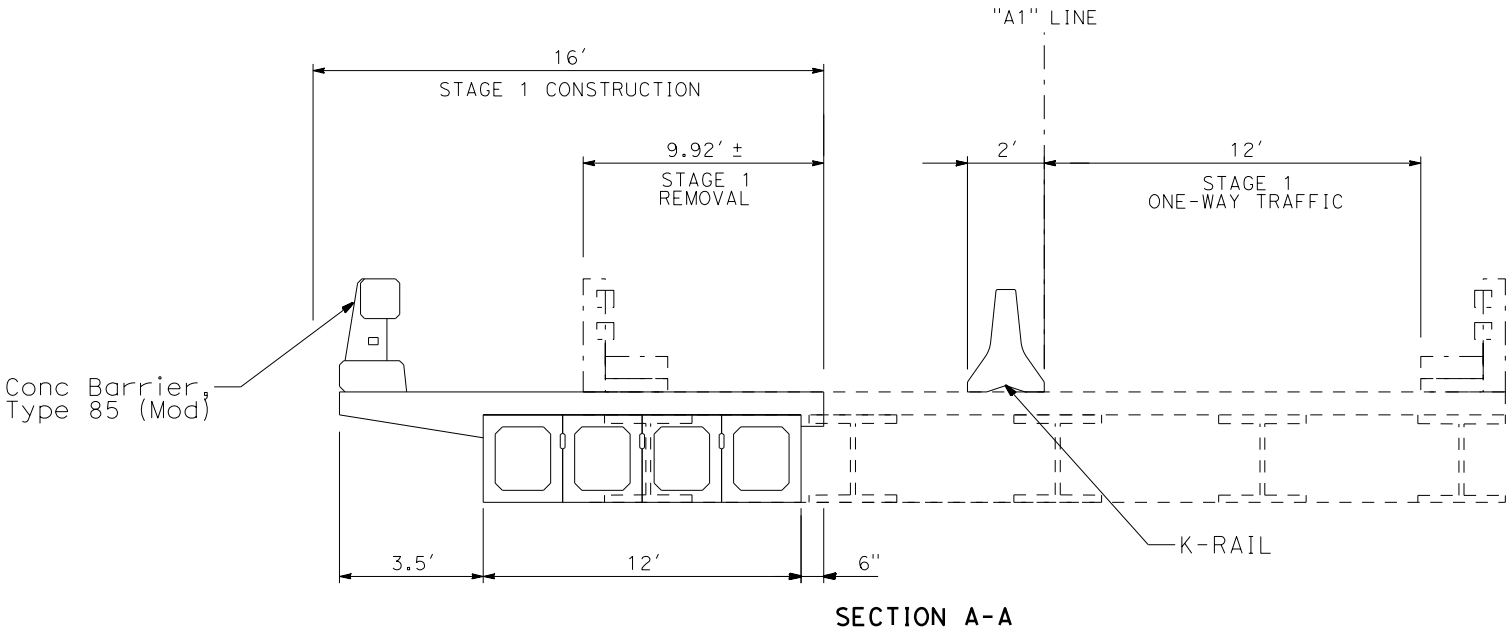
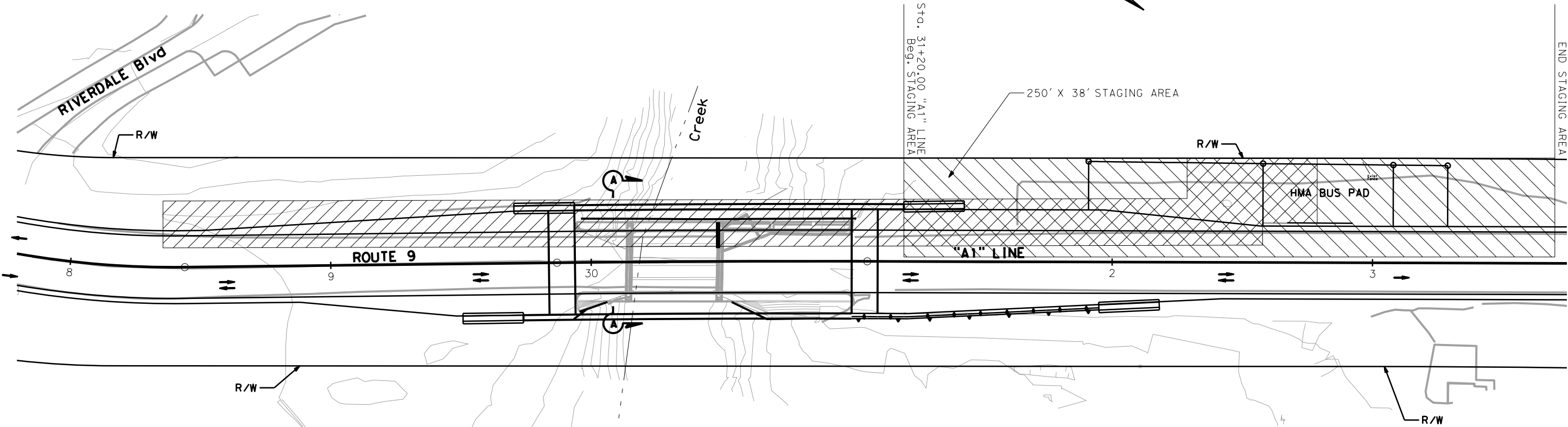
REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA



**SAN LORENZO RIVER BRIDGE**  
**PM 13.6**

**STAGE CONSTRUCTION**  
**STAGE 1**  
**SC-1**  
**NO SCALE**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

ARTHUR RAMIREZ

CALCULATED-DESIGNED BY

CHECKED BY

DIANA ROSAS

JOHNNY REYES

REVISED BY

DATE REVISED

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ONE-WAY TRAFFIC CONTROL REQUIRED
3. ALL WORK EXCEPT FOR COLD PLANE AND HMA OVERLAY DONE BEHIND K-RAIL
4. COLD PLANE AND HMA OVERLAY WILL BE DONE UNDER FLAGGING OPERATIONS

CONSTRUCTION - STAGE 2

- WORK DONE FOR NORTHBOUND SIDE  
NB TRAFFIC SHIFTED TO SB LANE FOR ONE WAY TRAFFIC
1. DEMO AND RECONSTRUCT EAST SIDE OF STRUCTURE, AS SHOWN IN SECTION B-B
2. CONSTRUCT RETAINING WALL
3. WIDEN SHOULDER AND TAPER TO Exist
4. INSTALL GUARDRAIL
5. COLD PLANE AND HMA OVERLAY BETWEEN PROPOSED L+ ETW AND R+ ETW

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	53	XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

SAN LORENZO RIVER BRIDGE  
PM 13.6

STAGE CONSTRUCTION  
STAGE 2  
SC-2  
NO SCALE

BORDER LAST REVISED 7/2/2010

USERNAME => ... \0516000078ma002.dgn  
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RELATIVE BORDER SCALE IS IN INCHES  
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UNIT 1459

PROJECT NUMBER & PHASE

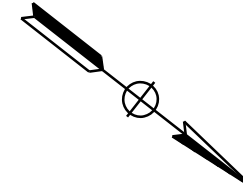
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LAST REVISION  
DATE PLOTTED => 12/7/2021  
10-01-21  
TIME PLOTTED => 4:47:42 PM

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ONE-WAY TRAFFIC CONTROL REQUIRED
3. ALL WORK DONE BEHIND K-RAIL

WORK DONE FOR SOUTHBOUND SIDE  
SB TRAFFIC SHIFTED TO NB LANE FOR ONE WAY TRAFFIC

1. CONSTRUCT RETAINING WALL
2. WIDEN SHOULDER AND TAPER TO EXIST
3. INSTALL GUARDRAIL



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5	53	XX

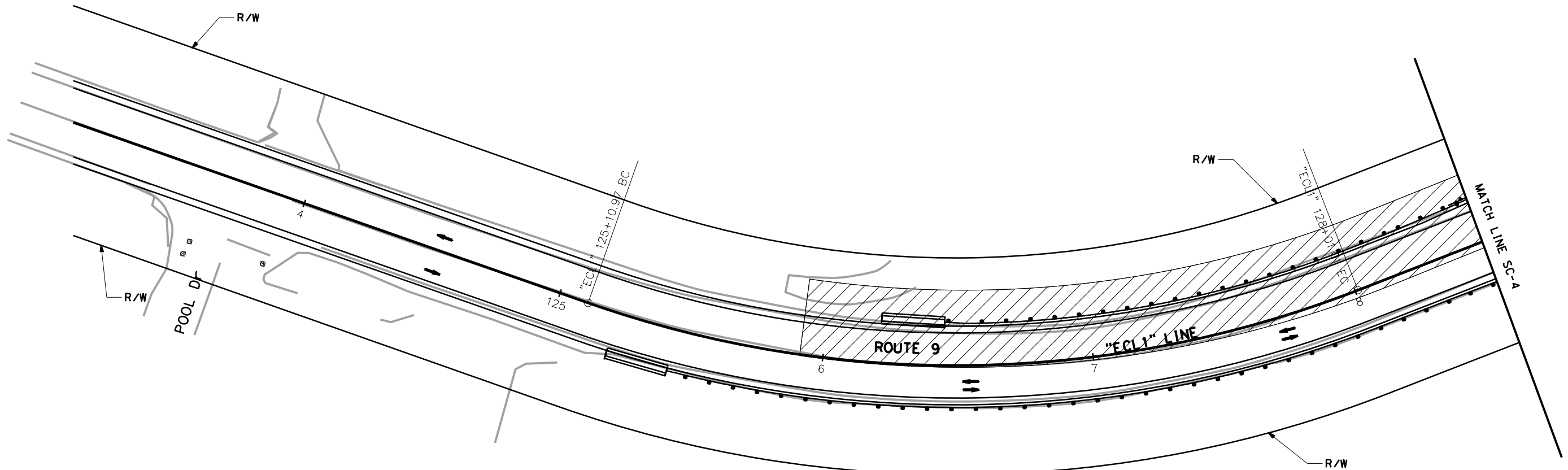
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA



**KINGS CREEK BRIDGE**  
**Br No. 36-0054 PM 15.5**

**STAGE CONSTRUCTION**  
**STAGE 1 SC-3**  
**NO SCALE**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

FUNCTIONAL SUPERVISOR

ARTHUR RAMIREZ

CALCULATED-DESIGNED BY

CHECKED BY

DIANA ROSAS

JOHNNY REYES

REVISED BY

DATE REVISED

NOTE:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- ONE-WAY TRAFFIC CONTROL REQUIRED
- ALL WORK DONE BEHIND K-RAIL
- CLOSURE POUR TO BE DONE IN STAGE 2

CONSTRUCTION - STAGE 1

- WORK DONE FOR SOUTHBOUND SIDE  
SB TRAFFIC SHIFTED TO NB LANE FOR ONE WAY TRAFFIC
- DEMO AND RECONSTRUCT WEST SIDE OF STRUCTURE, AS SHOWN IN SECTION A-A
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  - INSTALL GUARDRAIL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	53	XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

STAGE CONSTRUCTION  
STAGE 1  
SC-4  
NO SCALE

BORDER LAST REVISED 7/2/2010

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RELATIVE BORDER SCALE IS IN INCHES

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UNIT 1459

PROJECT NUMBER & PHASE

05160000781

LAST REVISION DATE PLOTTED => 12/7/2021 10-01-21 TIME PLOTTED => 4:59:37 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



DESIGN

ARTHUR RAMIREZ

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

DIANA ROSAS

JOHNNY REYES

REVISOR BY

DATE REVISED

\*

\*

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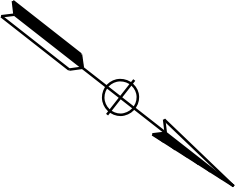
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\*

\*

- NOTE:**
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  - 2. ONE-WAY TRAFFIC CONTROL REQUIRED
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  - 4. COLD PLANE AND HMA OVERLAY WILL BE DONE UNDER FLAGGING OPERATIONS

- CONSTRUCTION - STAGE 2**
- WORK DONE FOR NORTHBOUND SIDE  
NB TRAFFIC SHIFTED TO SB LANE FOR ONE WAY TRAFFIC
- 1. CONSTRUCT RETAINING WALL
  - 2. WIDEN SHOULDER AND TAPER TO Exist
  - 3. INSTALL GUARDRAIL



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	53	XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

**KINGS CREEK BRIDGE**  
**Br No. 36-0054 PM 15.5**

**STAGE CONSTRUCTION**  
**STAGE 2**  
**SC-5**  
**NO SCALE**

BORDER LAST REVISED 7/2/2010

USERNAME => ... \0516000078ma005.dgn

RELATIVE BORDER SCALE IS IN INCHES

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1

2

3

UNIT 1459

PROJECT NUMBER & PHASE

05160000781


LAST REVISION

DATE PLOTTED => 12/7/2021

10-01-21

TIME PLOTTED => 5:02:49 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



FUNCTIONAL SUPERVISOR

ARTHUR RAMIREZ

CALCULATED-DESIGNED BY

CHECKED BY

DIANA ROSAS

JOHNNY REYES

REVISED BY

DATE REVISED

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ONE-WAY TRAFFIC CONTROL REQUIRED
3. ALL WORK EXCEPT FOR COLD PLANE AND HMA OVERLAY DONE BEHIND K-RAIL
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CONSTRUCTION - STAGE 2

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1. DEMO AND RECONSTRUCT EAST SIDE OF STRUCTURE, AS SHOWN IN SECTION B-B
2. CONSTRUCT RETAINING WALL
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4. INSTALL GUARDRAIL
5. COLD PLANE AND HMA OVERLAY BETWEEN PROPOSED L+ ETW AND R+ ETW

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5	53	XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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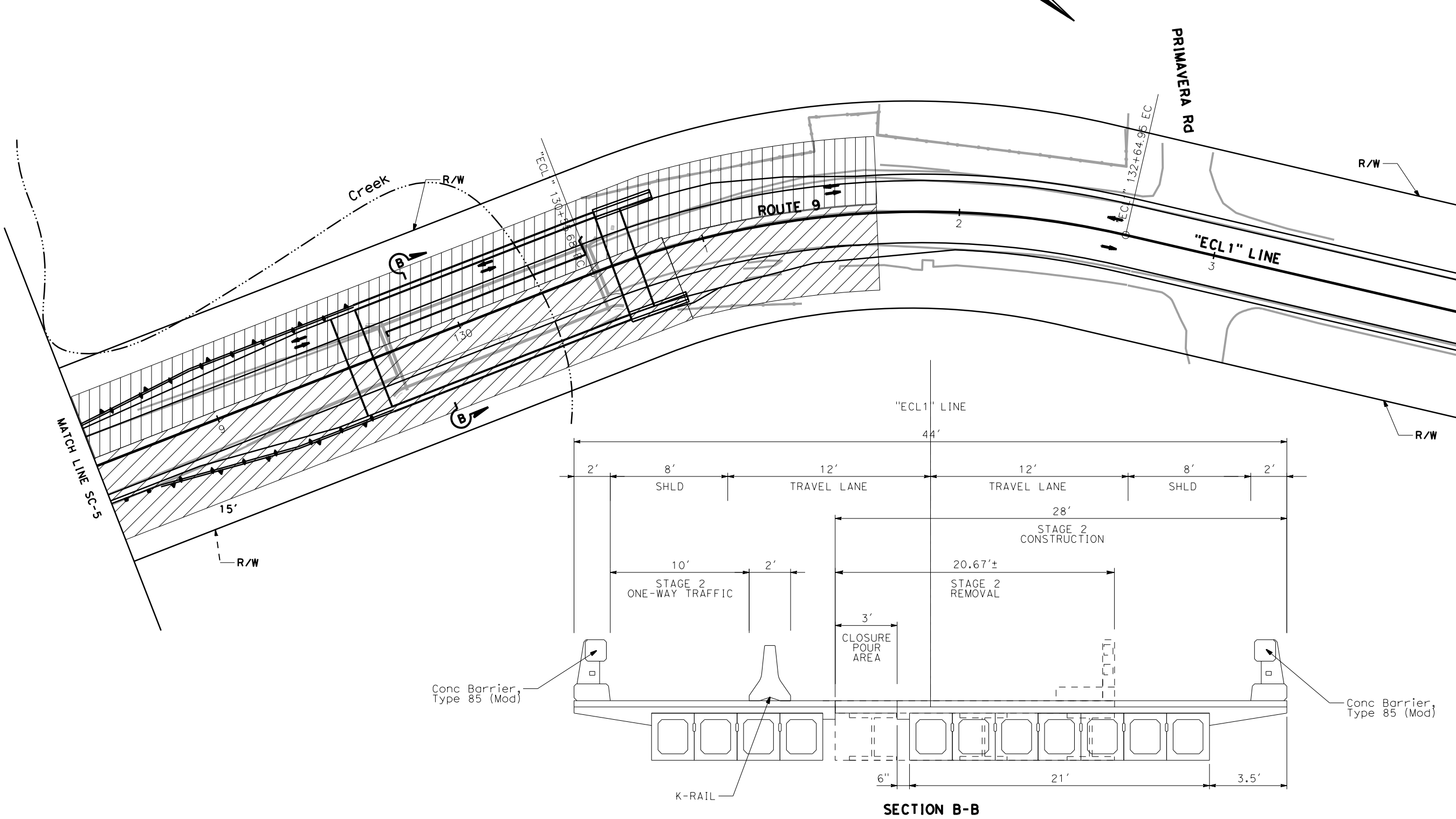
REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL


STATE OF CALIFORNIA



KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

STAGE CONSTRUCTION  
STAGE 2  
SC-6  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR

MOHAMMED OATAMI

REVISOR

REVISION

DESIGNED BY

CHECKED BY

TAM LA

APURVA GOKAL

REVISOR

REVISION

DATE

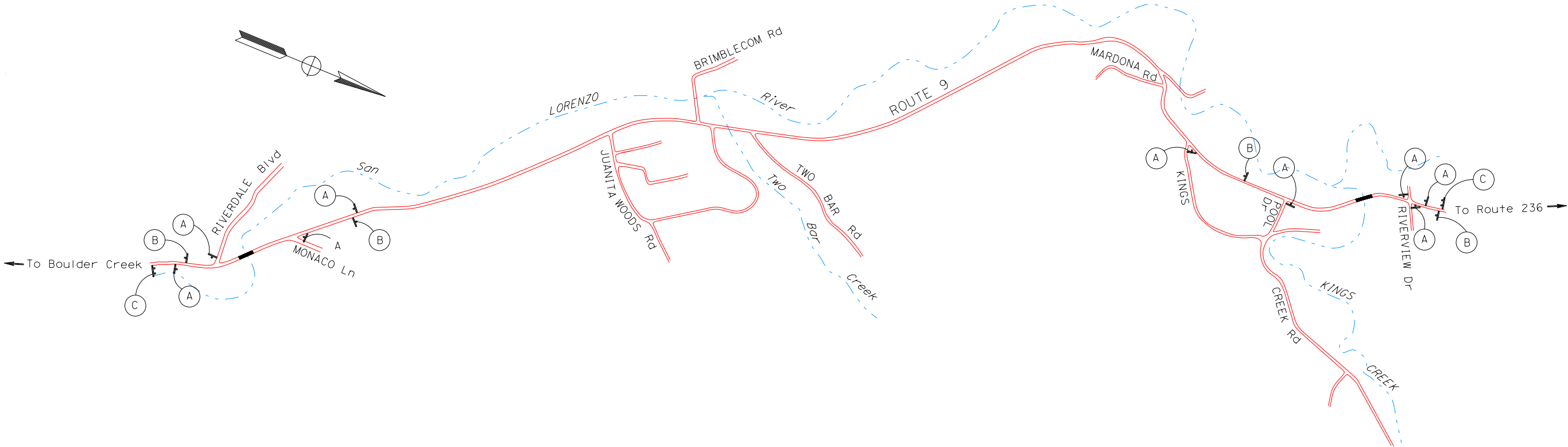
DATE

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS ARE SHOWN ON TH SHEETS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	9
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	4
C	C47B(CA)	96" x 60"	PROJECT FUNDING SIGN	2 - 6" x 6"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGNS WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6, 15.5	X	X
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

REGISTERED PROFESSIONAL ENGINEER

No. \_\_\_\_\_

EXP. \_\_\_\_\_

CIVIL

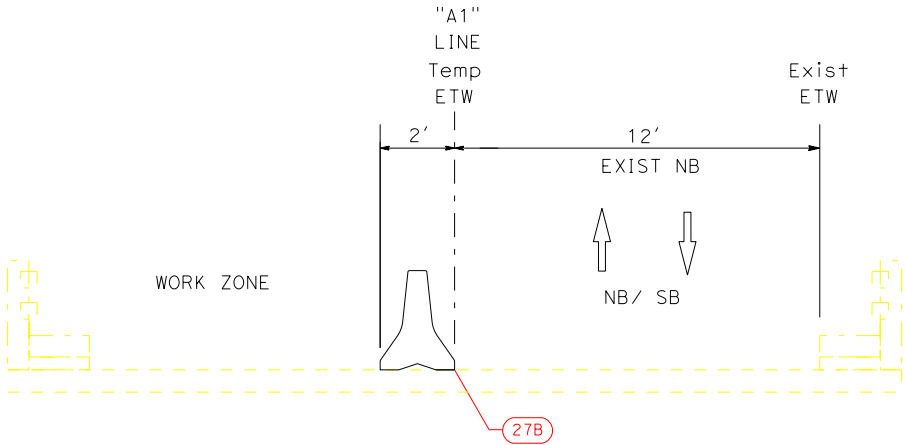
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	TAM LA	REVISOR BY	
	TRAFFIC DESIGN				
	MOHAMMED OATAMI				
		CHECKED BY	APURVA GOKAL	DATE	REVISED

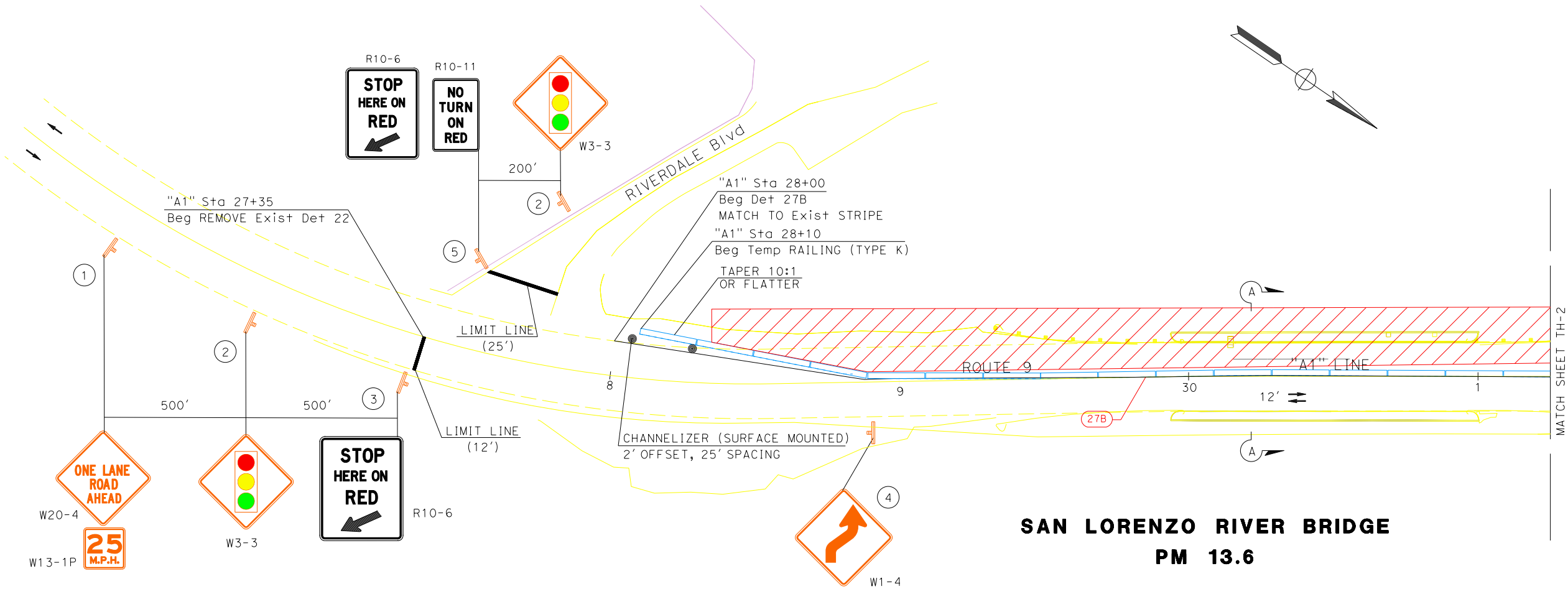
LEGEND:

- CONSTRUCTION AREA
- TEMPORARY RAILING (TYPE K)
- CHANNELIZER (SURFACED MOUNTED)
- XX

TEMPORARY TRAFFIC STRIPE DETAIL NUMBER



SECTION A-A




SAN LORENZO RIVER BRIDGE  
PM 13.6

TRAFFIC HANDLING PLAN  
STAGE 1  
TH-1

NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
MOHAMMED OATAMI

CALCULATED-DESIGNED BY  
CHECKED BY

TAM LA  
APURVA GOKAL

REVISOR  
DATE

REVISOR  
DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

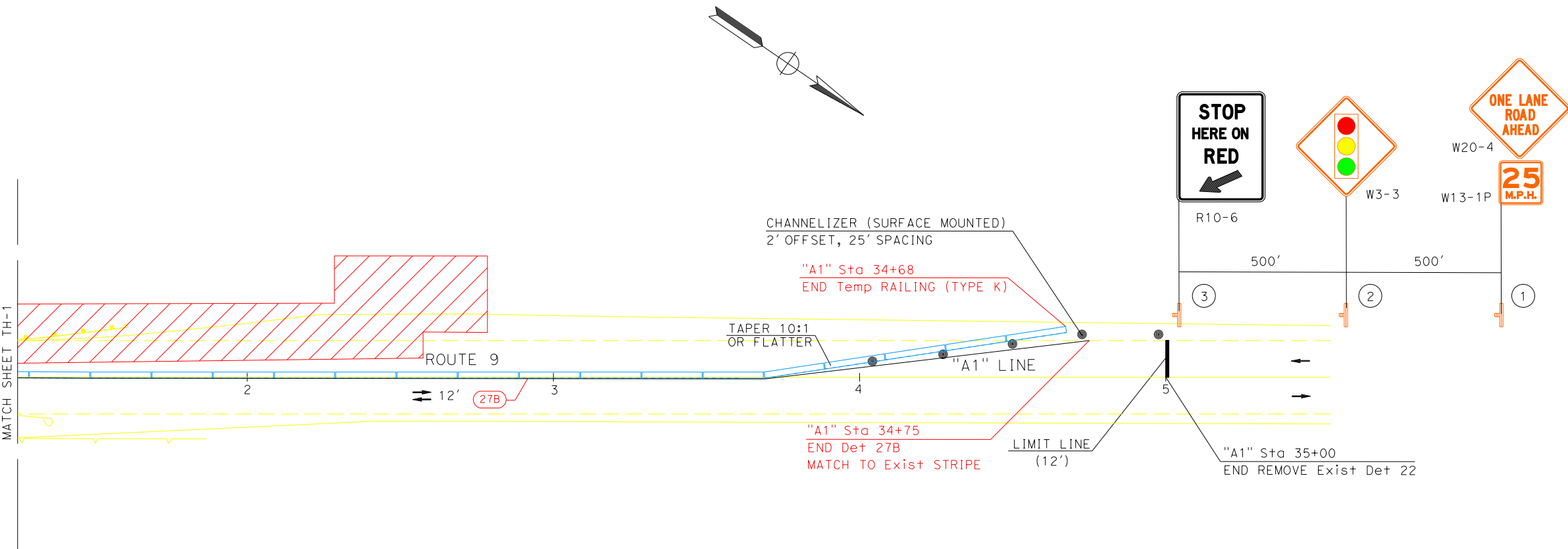
No.

EXP.

CIVIL

STATE OF CALIFORNIA

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OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.




TRAFFIC HANDLING PLAN  
STAGE 1  
TH-2

NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
MOHAMMED OATAMI

CALCULATED-  
DESIGNED BY

CHECKED BY

TAM LA  
APURVA GOKAL

REVISED BY

DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX

REGISTERED CIVIL ENGINEER

DATE

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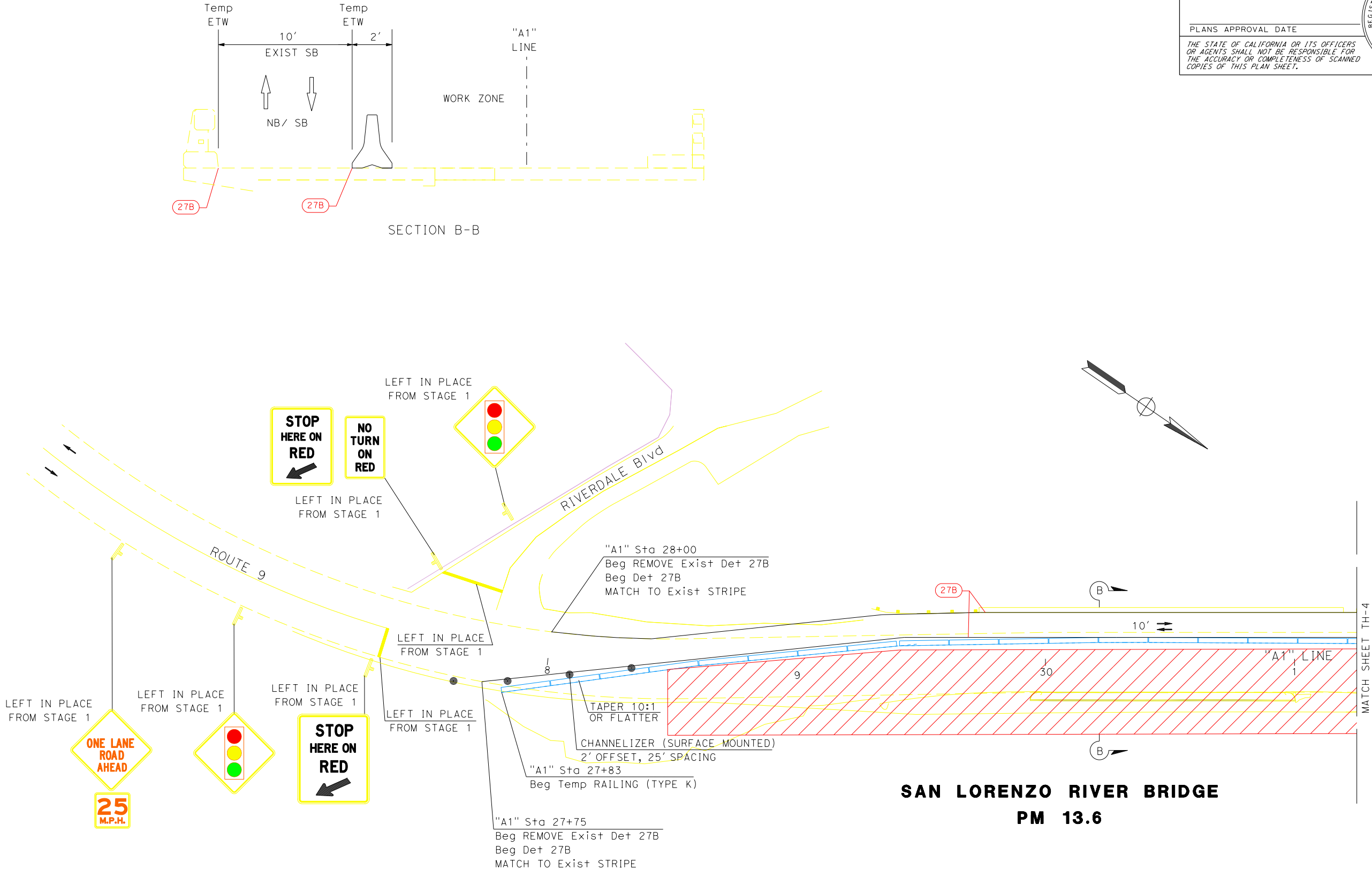
REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA




TRAFFIC HANDLING PLAN  
STAGE 2  
TH-3

NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR

MOHAMMED OATAMI

CALCULATED-DESIGNED BY

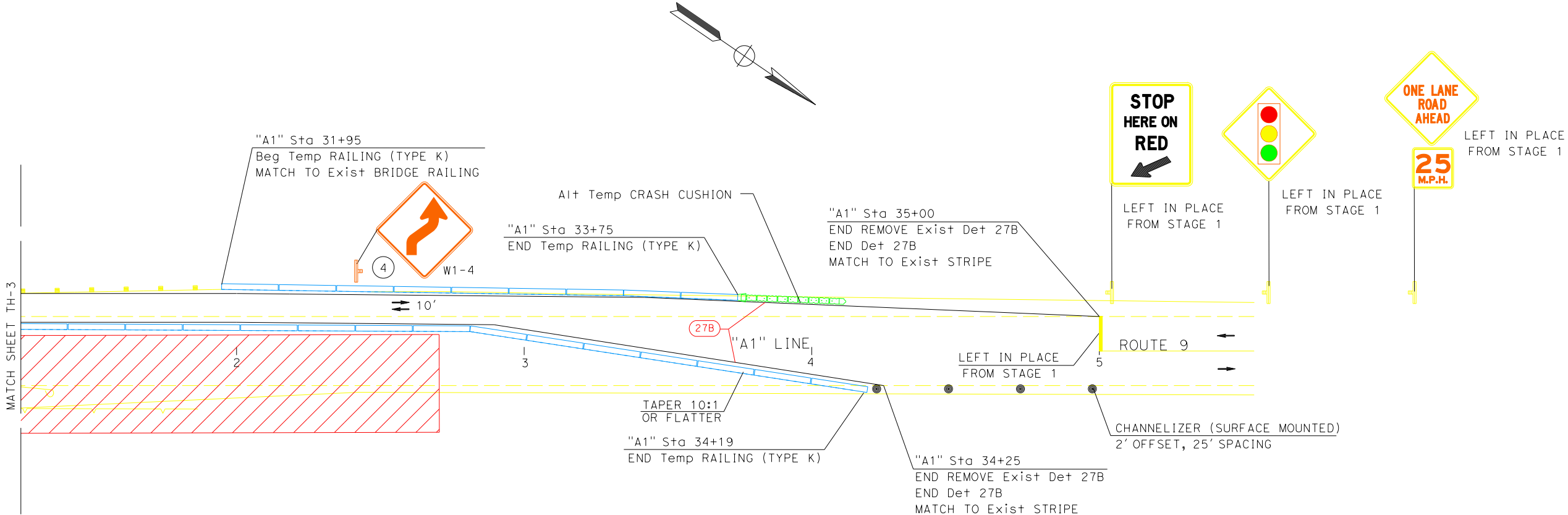
CHECKED BY

TAM LA

APURVA GOKAL

REVISED BY

DATE REVISED



TRAFFIC HANDLING PLAN  
STAGE 2  
TH-4

NO SCALE

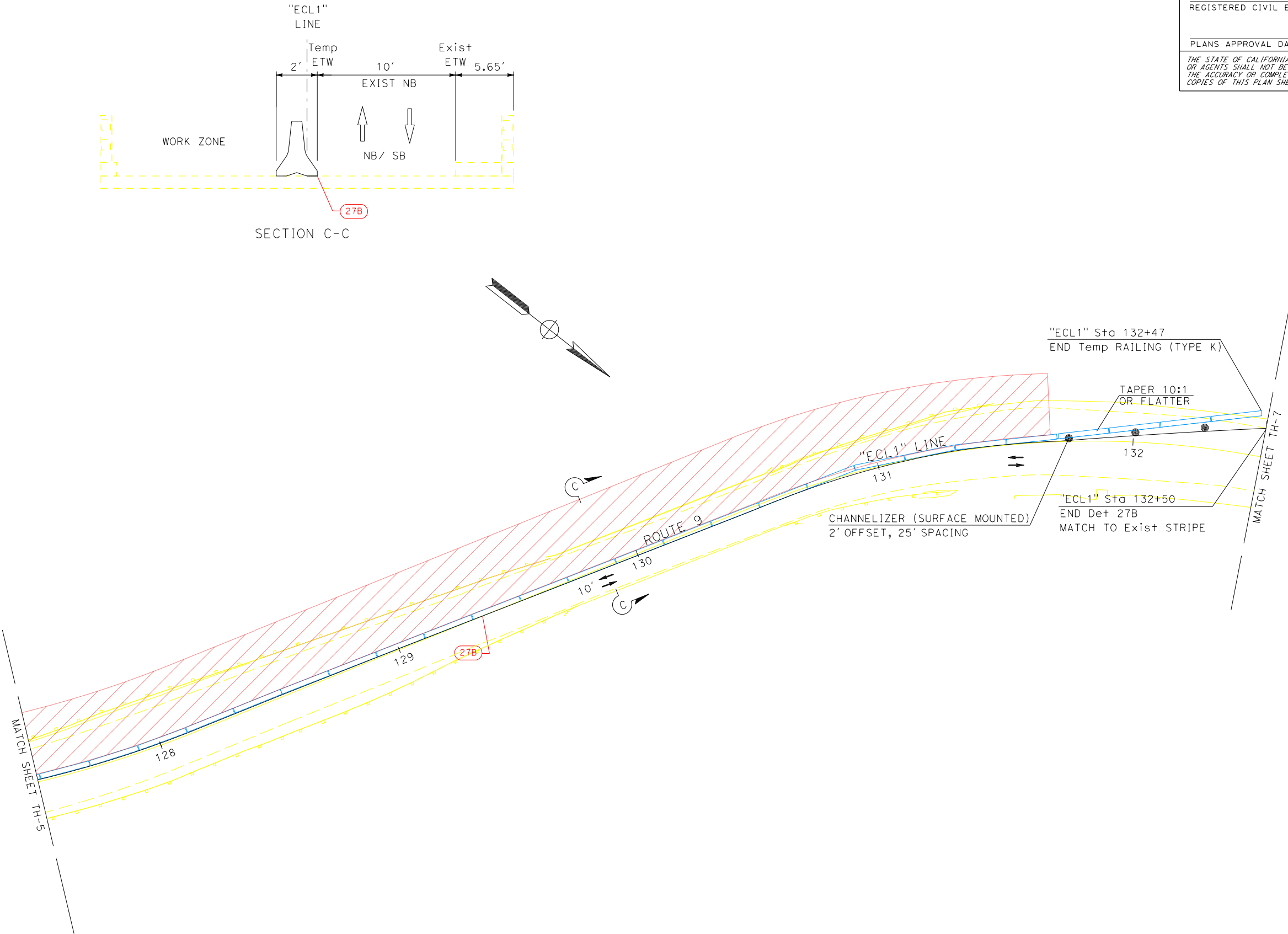
APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	TAM LA	REVISED BY
<b>Caltrans</b>	TRAFFIC DESIGN	CHECKED BY	APURVA GOKAL	DATE REVISED
		MOHAMMED OATAMI		



NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	TAM LA	REVISED BY	
Caltrans®	TRAFFIC DESIGN	CHECKED BY	APURVA GOKAL	DATE REVISED	



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<p>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</p>					


# TRAFFIC HANDLING PLAN

## STAGE 1 TH-6

NO SCALE

DATE PLOTTED => \$DATE	LAST REVISION
TIME PLOTTED => \$TIME	11-04-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



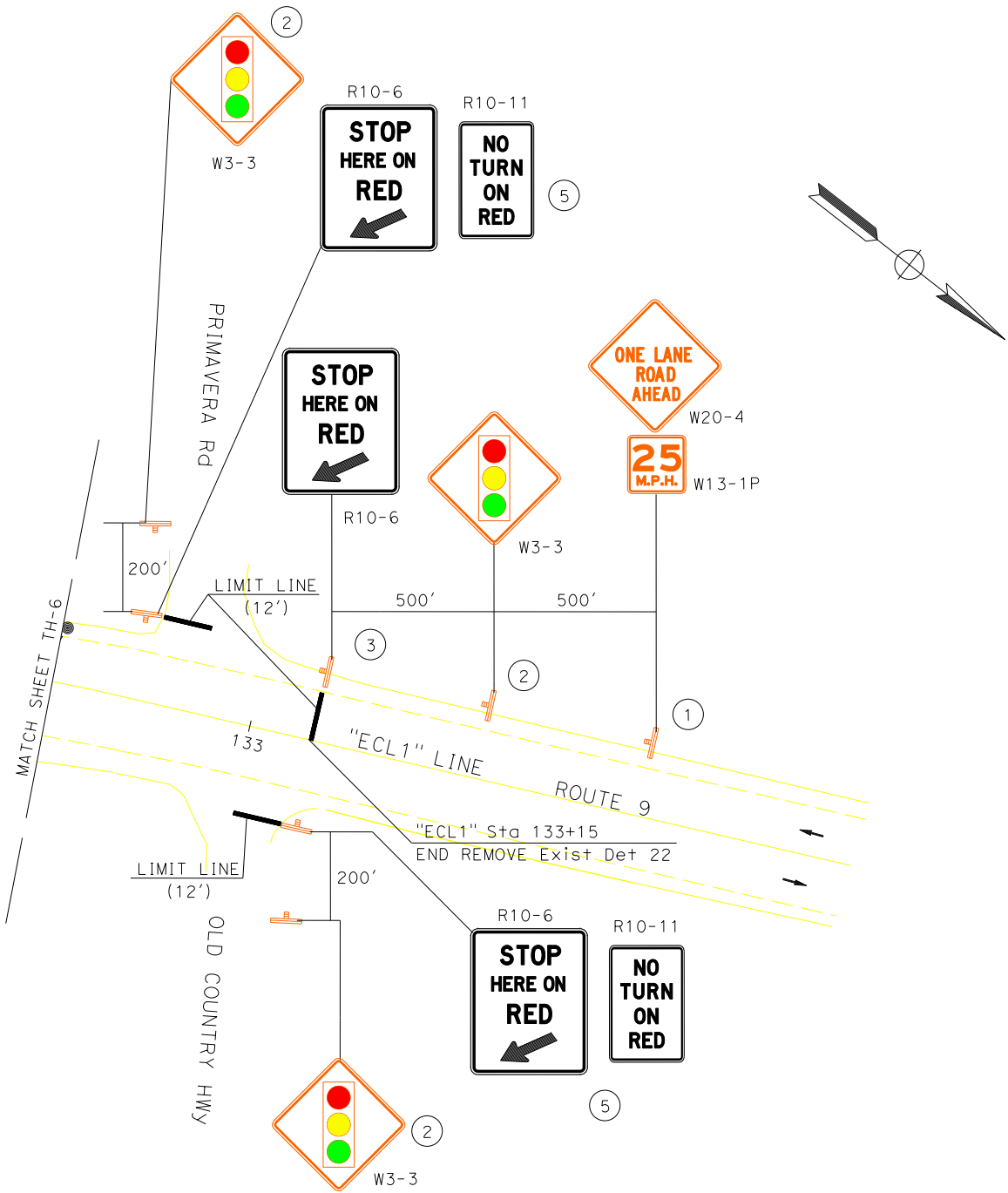
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR  
MOHAMMED OATAMI

CALCULATED-DESIGNED BY  
CHECKED BY

TAM LA  
APURVA GOKAL

REVISED BY  
DATE REVISED



TRAFFIC HANDLING PLAN

STAGE 1

TH-7

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER


No.

Exp.

CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



FUNCTIONAL SUPERVISOR

MOHAMMED OATAMI

TRAFFIC DESIGN

CALCULATED-  
DESIGNED BY

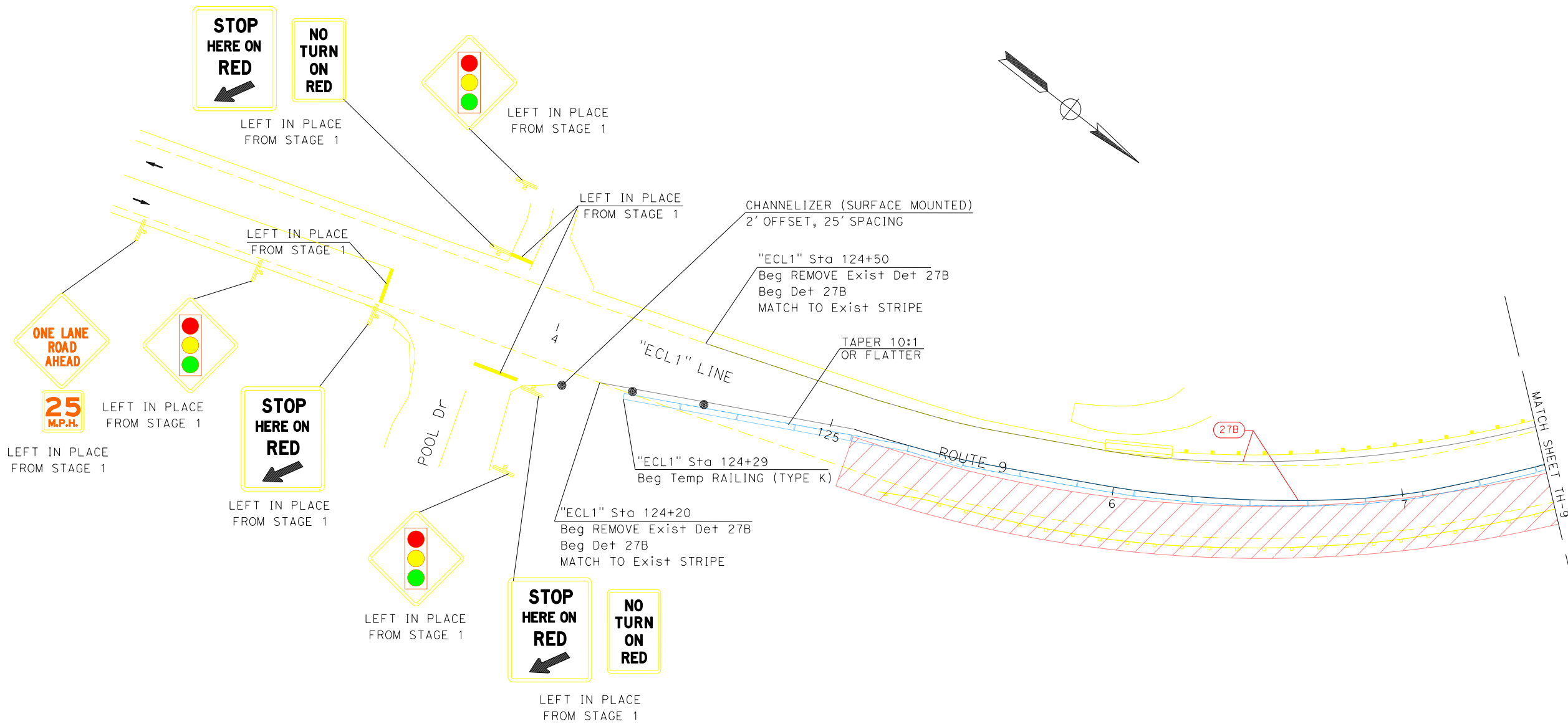
CHECKED BY

TAM LA

APURVA GOKAL

REVISED BY

DATE REVISED



**KINGS CREEK BRIDGE**  
**Br No. 36-0054 PM 15.5**

**TRAFFIC HANDLING PLAN**  
**STAGE 2**  
**TH-8**  
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

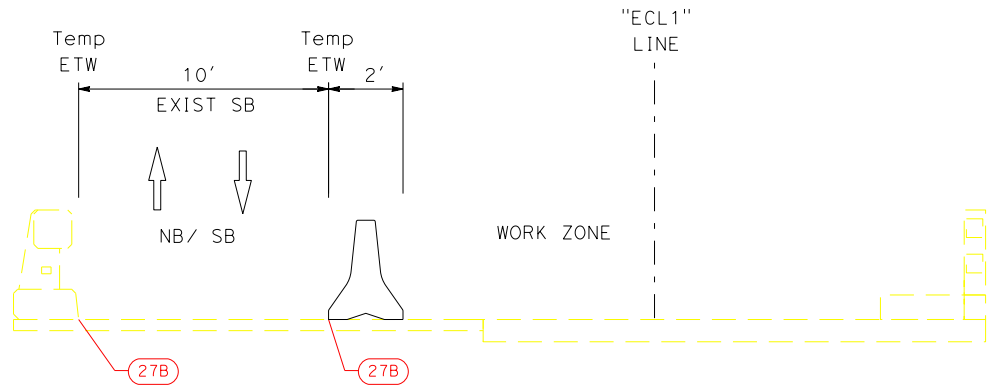
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Exp.

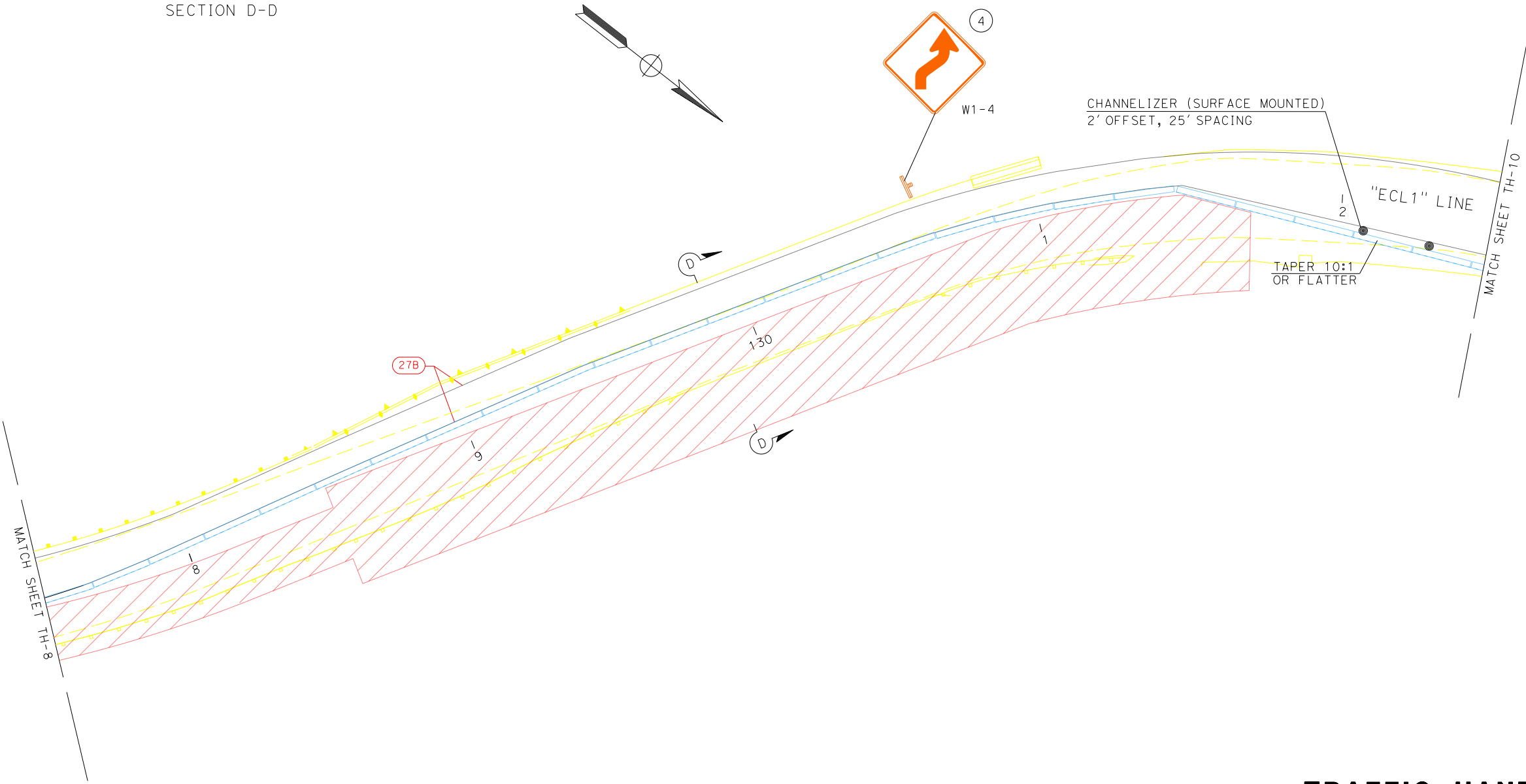
CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY	TAM LA	REVISED BY	
	TRAFFIC DESIGN					
Caltrans®	MOHAMMED OATAMI		CHECKED BY	APURVA GOKAL	DATE	REVIS



SECTION D-D



**TRAFFIC HANDLING PLAN**  
**STAGE 2**  
**TH-9**  
NO SCALE

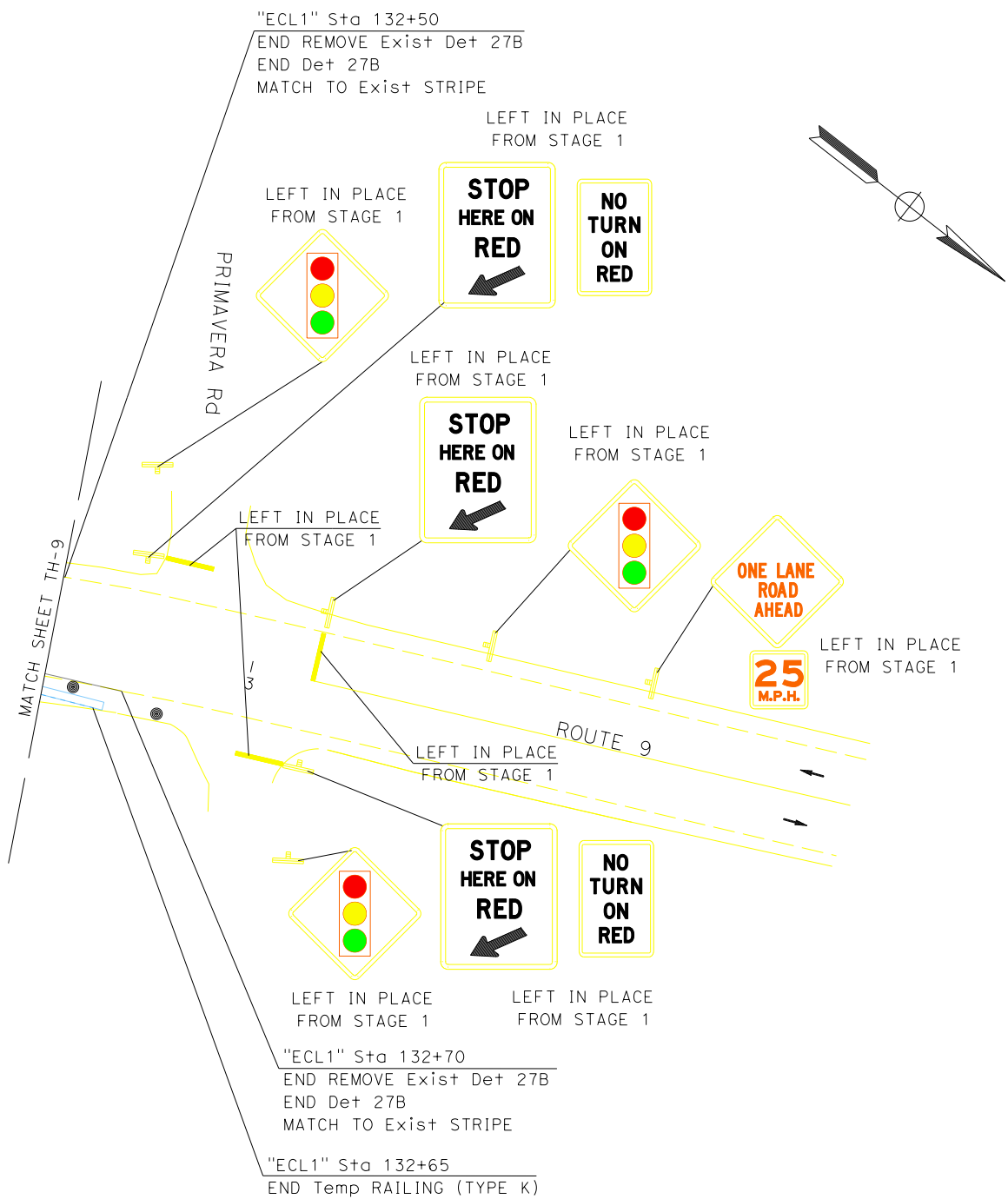
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

No.   
Exp.   
CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	TAM LA	REVISED BY	
<b>Caltrans</b>	TRAFFIC DESIGN	CHECKED BY	APURVA GOKAL	DATE REVISED	



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<p><i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i></p>					

# TRAFFIC HANDLING PLAN

## STAGE 2 TH-10

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 **TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR

MOHAMMED OATAMI

CALCULATED-DESIGNED BY

CHECKED BY

TAM LA

A.N. GOKAL

REVISED BY

DATE REVISED

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
1	W20-4	36" X 36"	ONE LANE ROAD AHEAD	1 - 4" x 6"	4
	W13-1P	30" X 30"	25 MPH		
2	W3-3	36" X 36"	SIGNAL SYMBOL	1 - 4" x 4"	9
3	R10-6	24" X 36"	STOP HERE ON RED W/ ARROW	1 - 4" x 4"	4
4	W1-4(R+)	36" X 36"	REVERSE RIGHT CURVE	1 - 4" x 4"	4
5	R10-6	24" x 36"	STOP HERE ON RED W/ ARROW	1 - 4" x 6"	5
	R10-11	24" x 30"	NO TURN ON RED		

EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.  
FOR ADDITIONAL CONSTRUCTION AREA SIGNS ARE SHOWN ON CS-1 SHEET.

ALTERNATIVE TEMPORARY CRASH CUSHION

SHEET No.	EA
TH-4	1
TOTAL	1

TEMPORARY RAILING (TYPE K)

SHEET No.	DIRECTION	STATION	LF
TH-1 TO TH-2	SB	"A1" Sta 28+10 TO 34+26	620
TH-3 TO TH-4	NB	"A1" Sta 27+83 TO 34+19	640
	SB	"A1" Sta 31+95 TO 33+75	180
TH-5 TO TH-6	SB	"ECL1" Sta 124+90 TO 132+47	760
TH-8 TO TH-10	NB	"ECL1" Sta 124+29 TO 132+70	840
TOTAL			3040

TEMPORARY PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION (STATION)		DIRECTION	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY PAVEMENT MARKING (PAINT)	
					6"				
	FROM	TO			LF				
TH-1 TO TH-4	"A1" 27+35	35+00	CL	22		1530	66		
	"A1" 28+00	34+50	SB	27B	650				
	"A1" 28+00	35+00	SB	27B	700	700			
	"A1" 27+75	34+25	NB	27B	650	650			
	"A1" 27+35		NB					LIMIT LINE	12
	"A1" 35+00		SB					LIMIT LINE	12
	RIVERDALE BLVD / SB 9							LIMIT LINE	25
TH-5 TO TH-10	"ECL1"123+40	133+15	CL	22		1950	84		
	"ECL1"124+90	132+50	SB	27B	760				
	"ECL1"125+00	132+70	NB	27B	860	860			
	"ECL1"124+50	132+50	SB	27B	800	800			
	"ECL1"123+40		NB					LIMIT LINE	12
	"ECL1"133+15		SB					LIMIT LINE	12
	DRIVEWAY / SB 9							LIMIT LINE	10
	POOL DR / NB 9							LIMIT LINE	15
	OLD COUNTRY HWY							LIMIT LINE	12
PRIMAVERA RD								LIMIT LINE	12
TOTAL					4420	6490	150		122

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	EA
TH-1 TO TH-2	7
TH-3 TO TH-4	8
TH-5 TO TH-7	8
TH-8 TO TH-10	7
TOTAL	30

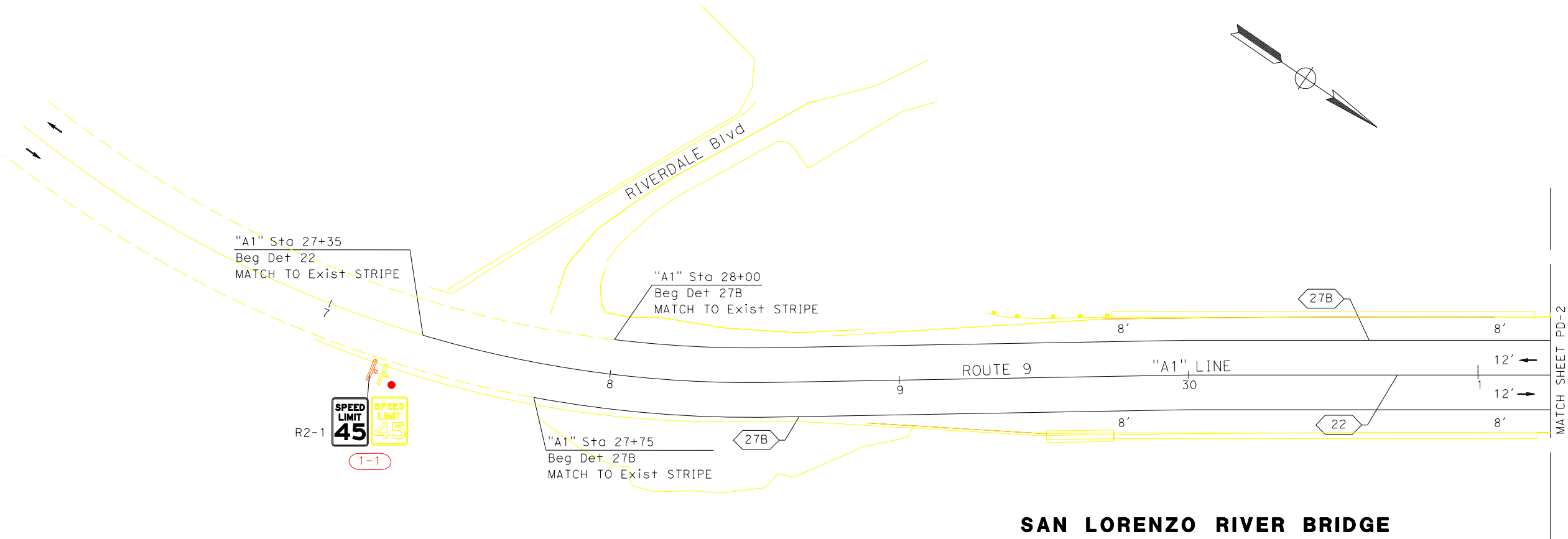
TRAFFIC HANDLING QUANTITIES THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY	TAM LA	REVISED BY	
<b>Caltrans</b>	TRAFFIC DESIGN		CHECKED BY	APURVA GOKAL	DATE REVISED	

LEGEND:

- REMOVE ROADSIGN SIGN
- X-X

ROADSIGN SIGN NUMBER



SAN LORENZO RIVER BRIDGE  
PM 13.6

PAVEMENT DELINEATION AND SIGN PLAN  
PD-1

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

No. \_\_\_\_\_

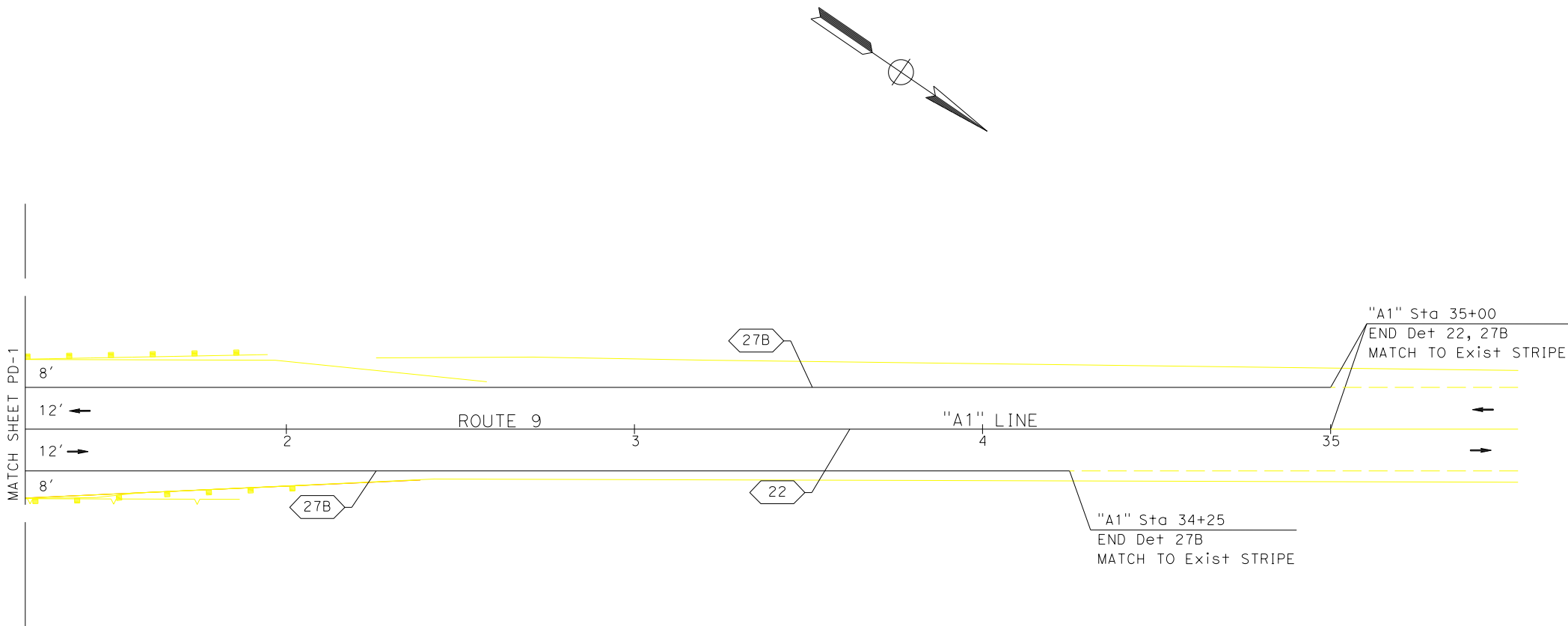
Exp. \_\_\_\_\_

CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	TAM LA	REVISED BY	
<b>Caltrans</b> TRAFFIC DESIGN	MOHAMMED QATAMI	CHECKED BY	APURVA GOKAL	DATE REVISED	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<p><i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i></p>					



# PAVEMENT DELINEATION AND SIGN PLAN PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

NO SCALE



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	MOHAMMED OATAMI					
	TRAFFIC DESIGN					
	ET•Caltrans®					
			APURVA GOKAL	DATE	REVISD	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

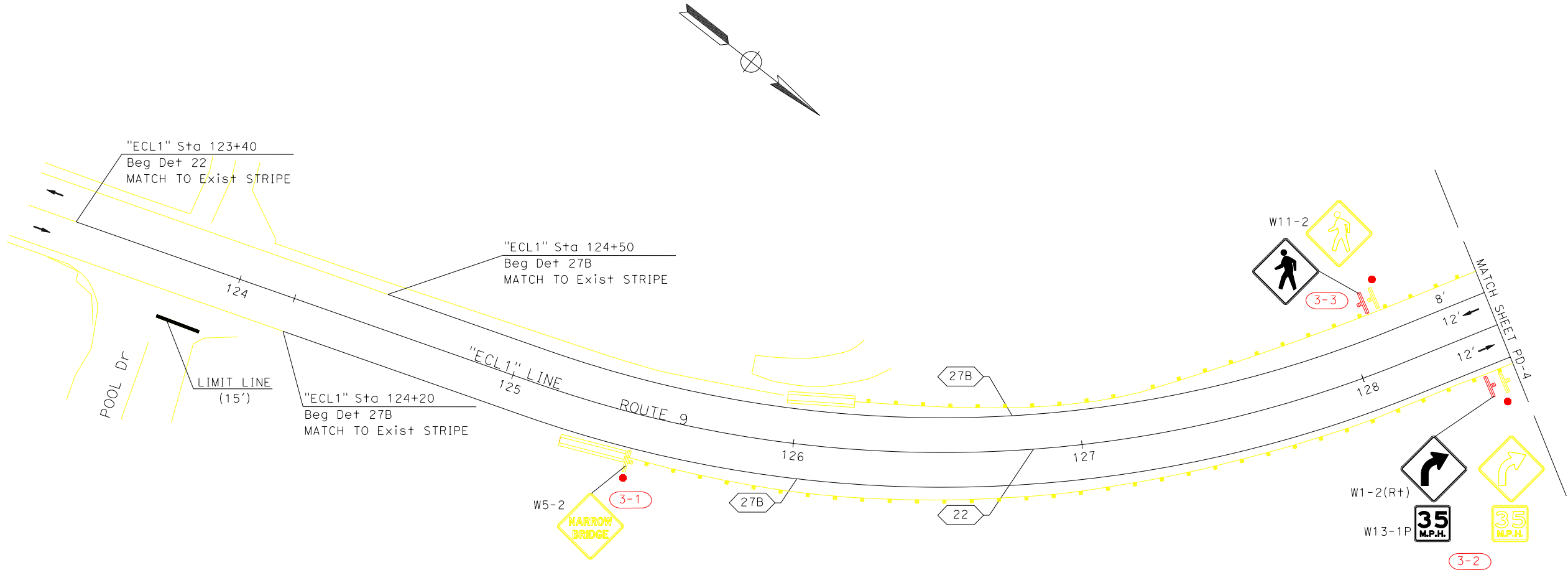
REGISTERED PROFESSIONAL ENGINEER

No. \_\_\_\_\_

EXP. \_\_\_\_\_

CIVIL

STATE OF CALIFORNIA



KINGS CREEK BRIDGE  
Br No. 36-0054 PM 15.5

PAVEMENT DELINEATION AND SIGN PLAN  
PD-3

APPROVED FOR PAVEMENT DELINEATION AND SIGNG WORK ONLY

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

TRAFFIC DESIGN

MOHAMMED OATAMI

FUNCTIONAL SUPERVISOR

CHECKED BY

DESIGNED BY

TAM LA

REVISOR

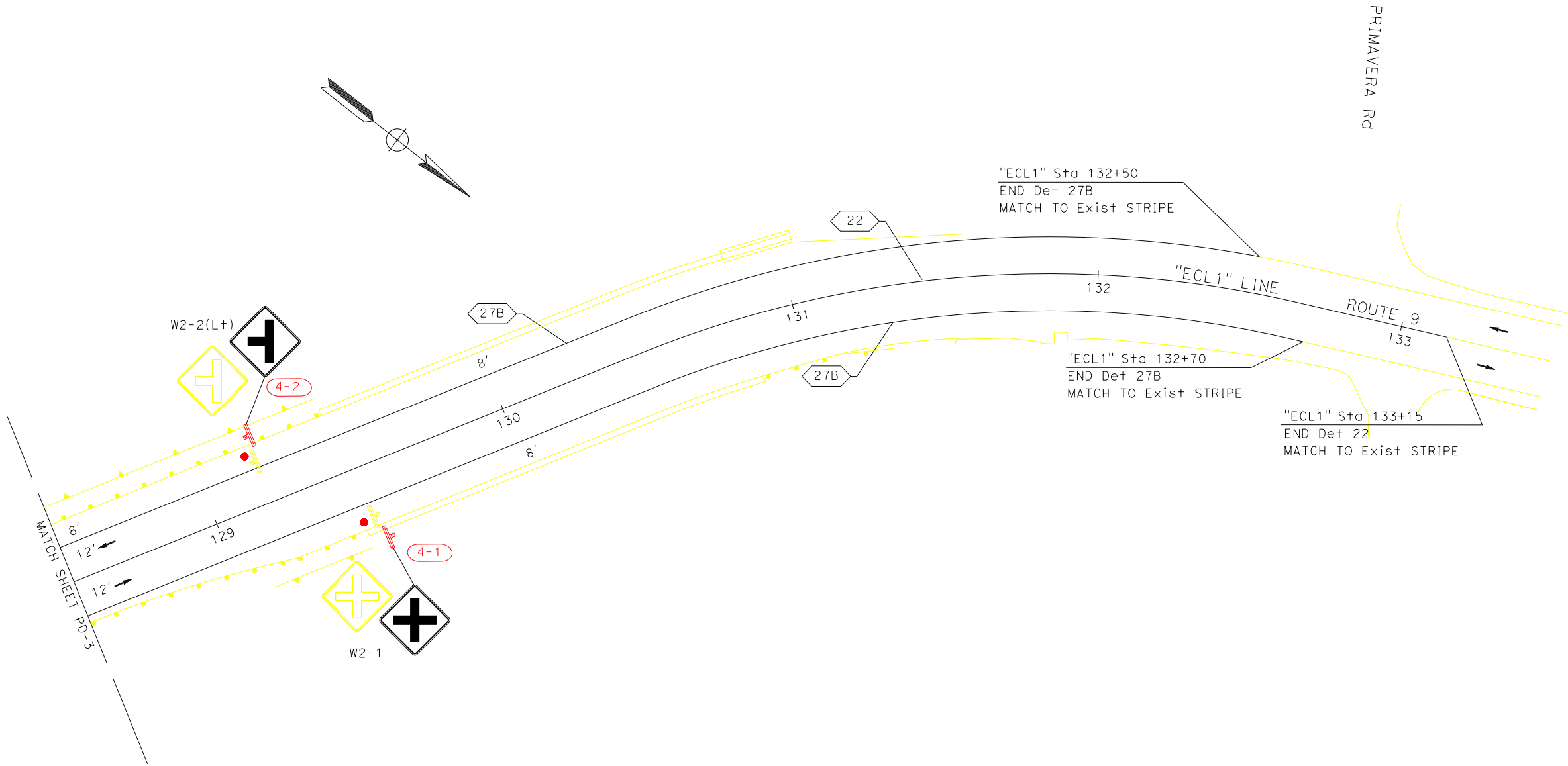
DATE

REVISOR

DATE

REVISOR

DATE



PAVEMENT DELINEATION AND SIGN PLAN  
PD-4

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		XX

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER


No.

Exp.

CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR

MOHAMMED OATAMI

CALCULATED-DESIGNED BY

CHECKED BY

TAM LA

A.N. GOKAL

REVISED BY

DATE REVISED

PAVEMENT DELINEATION QUANTITIES									
LOCATION			DIRECTION	DETAIL No.	PAVEMENT MARKERS (RETROREFLECTIVE)	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	
						6" YELLOW	6" WHITE		
POST MILE	STATION								TYPE D
	FROM	TO			EA	LF	LF		
13.6	"A1" 27+75	34+25			NB	27B	66		1530
	"A1" 27+35	35+00	CL	22					
	"A1" 28+00	35+00	SB	27B					
15.5	"ECL1"124+20	132+70	NB	27B	84	1950	850		
	"ECL1"123+40	133+15	CL	22					
	"ECL1"124+50	132+50	SB	27B			800		
	POOL DR / NB 9								
SUBTOTAL					150	3480	3000	15	
TOTAL					150	6480		15	

SIGN No. (X-X)	SIGN CODE	SIGN MESSAGE	No. OF POST AND SIZE	PANEL SIZE	BACKGROUND		LEGEND		FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	ROADSIDE SIGN - ONE POST	REMOVE ROADSIDE SIGN (WOOD POST)	TREATED WOOD WASTE
					SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE				
1-1	R2-1	SPEED LIMIT 45	1-4"x4"	24" x 30"	WHITE	IX	BLACK		5	1	1	38
3-1	W5-2	NARROW BRIDGE	EXIST	30" x 30" 18" x 18"	FY	XI	BLACK		6.25	1	1	64
3-2	W1-2(R+)	RIGHT CURVE	1-4"x6"									
	W13-1P	35 MPH			FY	XI	BLACK		2.25			
3-3	W11-2	PEDESTRIAN TRAFFIC	1-4"x6"	30" x 30"	FY	XI	BLACK		6.25	1	1	64
4-1	W2-1	CROSS ROAD	1-4"x6"	30" x 30"	FY	XI	BLACK		6.25	1	1	64
4-2	W2-2(L+)	LEFT SIDE ROAD	1-4"x6"	30" x 30"	FY	XI	BLACK		6.25	1	1	64
TOTAL									32.25	6	7	358

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6, 15.5		??

REGISTERED CIVIL ENGINEER      DATE

XX-XX-XX  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.      Exp.      CIVIL

STATE OF CALIFORNIA

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PAVEMENT DELINEATION AND SIGN QUANTITIES  
PDQ-1

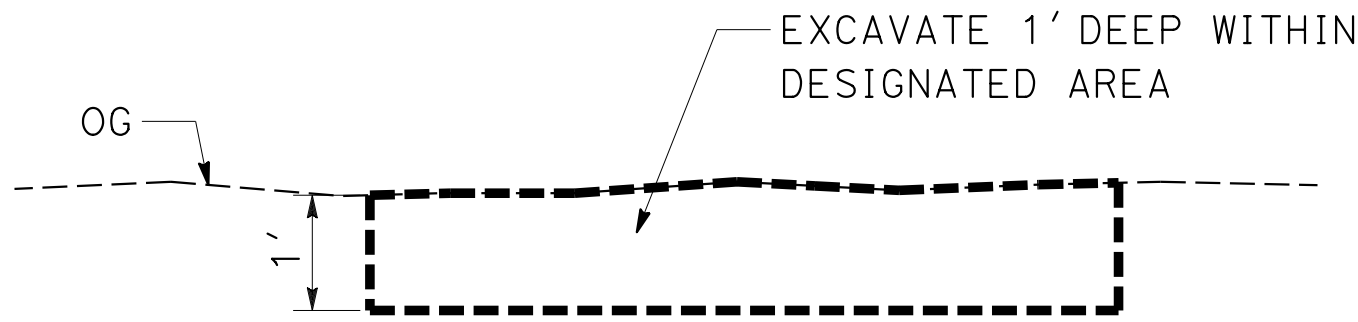




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	CORBY KILMER	SENIOR LANDSCAPE ARCHITECT	CALCULATED, DESIGNED BY	CHECKED BY	CHELSEA MOORE	REVISED BY	CKM		

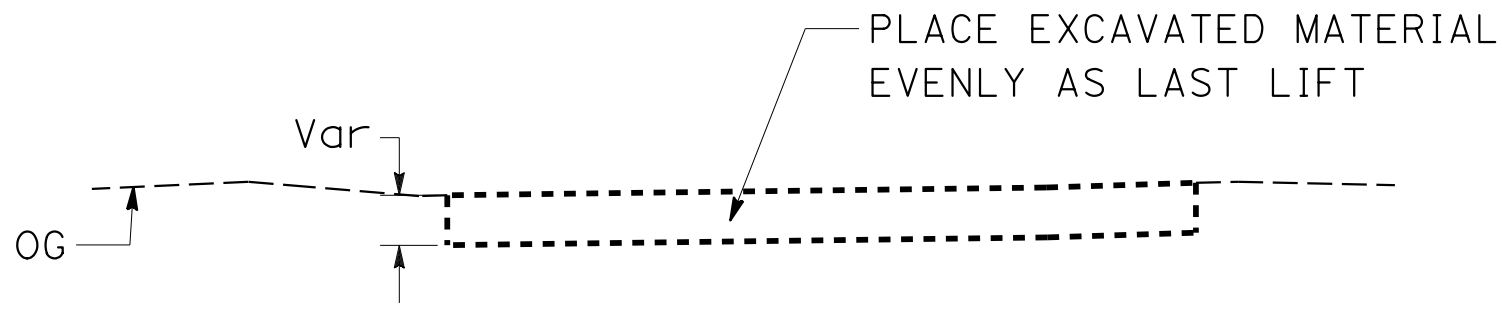
NOTE:

STATIONS AND OFFSETS SHOWN ARE APPROXIMATE.



TYPICAL SECTION

ROADWAY EXCAVATION  
(SELECTED MATERIAL TOPSOIL)



TYPICAL SECTION

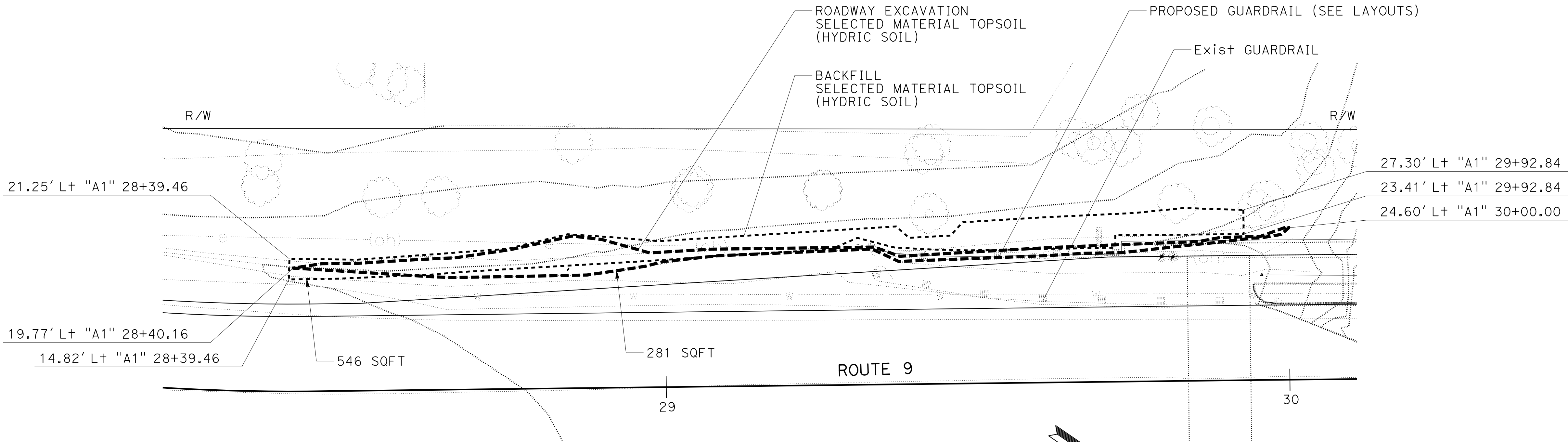
BACKFILL  
(SELECTED MATERIAL TOPSOIL)

LEGEND:

ROADWAY EXCAVATION  
SELECTED MATERIAL TOPSOIL  
(HYDRIC SOIL)

BACKFILL  
SELECTED MATERIAL TOPSOIL  
(HYDRIC SOIL)

Exist TREE



PLAN

ROADWAY EXCAVATION AND BACKFILL  
(SELECTED MATERIAL TOPSOIL)  
HYDRIC SOIL AT WETLAND

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		
LICENSED LANDSCAPE ARCHITECT					
PLANS APPROVAL DATE					
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CONSTRUCTION DETAILS

NO SCALE

C-X

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

CALCULATED-DESIGNED BY

CHECKED BY

CHELSEA MOORE

PKB

REVISED BY

DATE REVISED

CKM

10-29-21



NOTE:

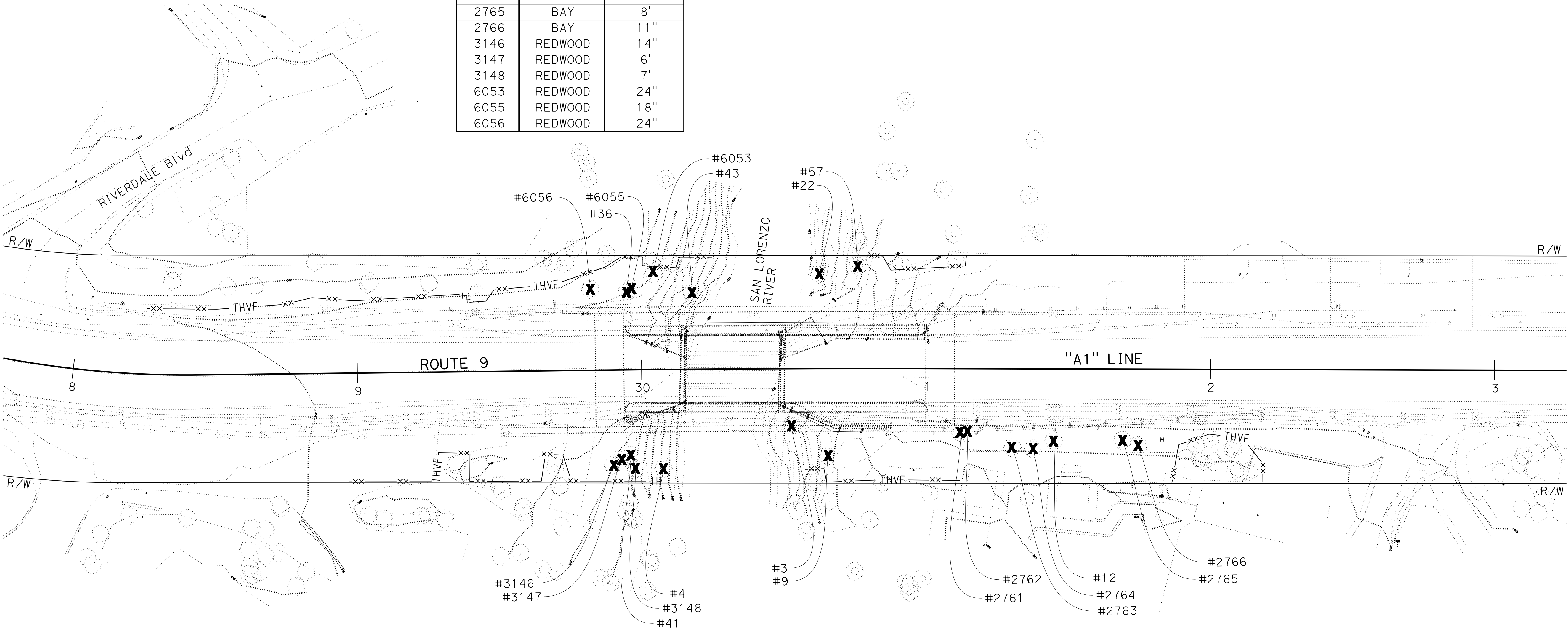
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

REMOVE TREES  
(CLEARING AND GRUBBING)

SURVEY POINT NUMBER	TYPE	Approx DBH
3	REDWOOD	43"
4	ALDER	13"
9	TAN OAK	7"
12	OTHER	10"
22	MAPLE	4"
36	REDWOOD	13"
41	TAN OAK	7"
43	MAPLE	8"
57	FIR	4"
2761	MAPLE	11"
2762	MAPLE	10"
2763	MAPLE	10"
2764	MAPLE	10"
2765	BAY	8"
2766	BAY	11"
3146	REDWOOD	14"
3147	REDWOOD	6"
3148	REDWOOD	7"
6053	REDWOOD	24"
6055	REDWOOD	18"
6056	REDWOOD	24"

LEGEND:

-  #22 EXISTING TREE TO BE REMOVED
-  EXISTING TREE



SAN LORENZO RIVER BRIDGE  
PM 13.6

APPROVED FOR TREE REMOVAL WORK ONLY

TREE REMOVAL PLAN  
PR-1


SCALE: 1"=20'

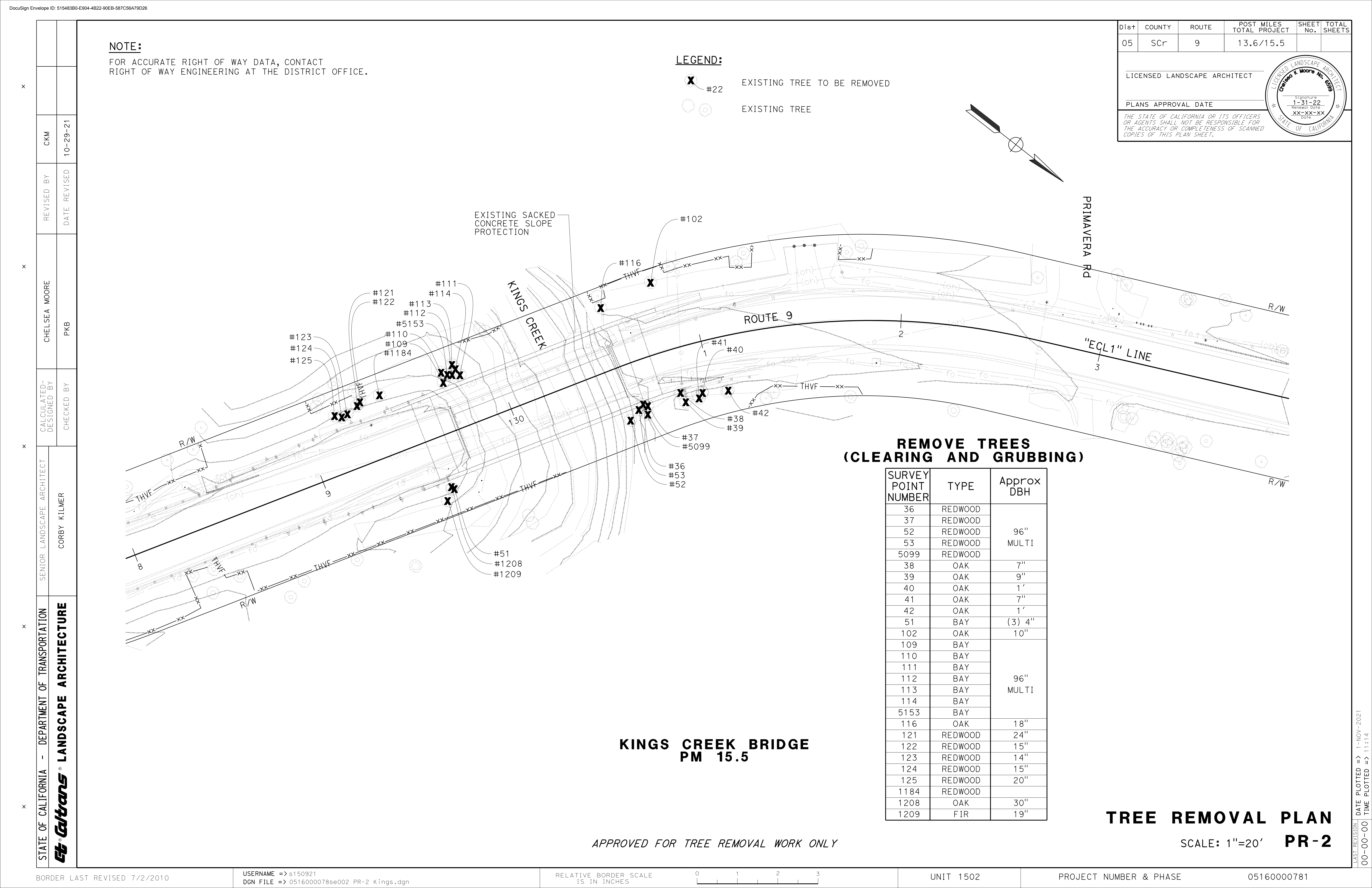
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT


PLANS APPROVAL DATE

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STATE OF CALIFORNIA



LANDSCAPE ARCHITECTURE

DEPARTMENT OF TRANSPORTATION

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

CALCULATED, DESIGNED BY

CHECKED BY

CHELSEA MOORE

PKB

REVISD BY

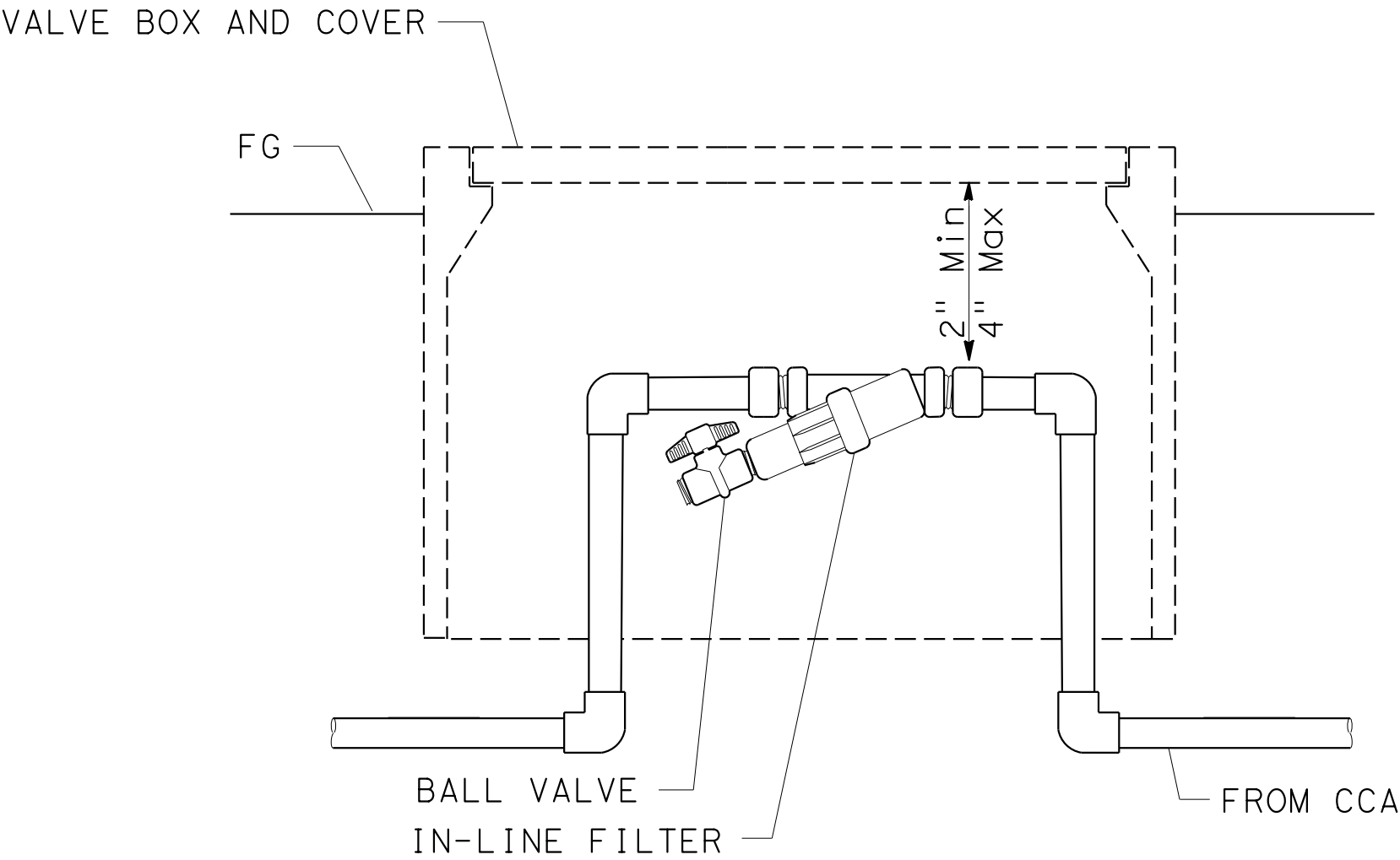
DATE REVISED

CKM

10-29-21

NOTES:

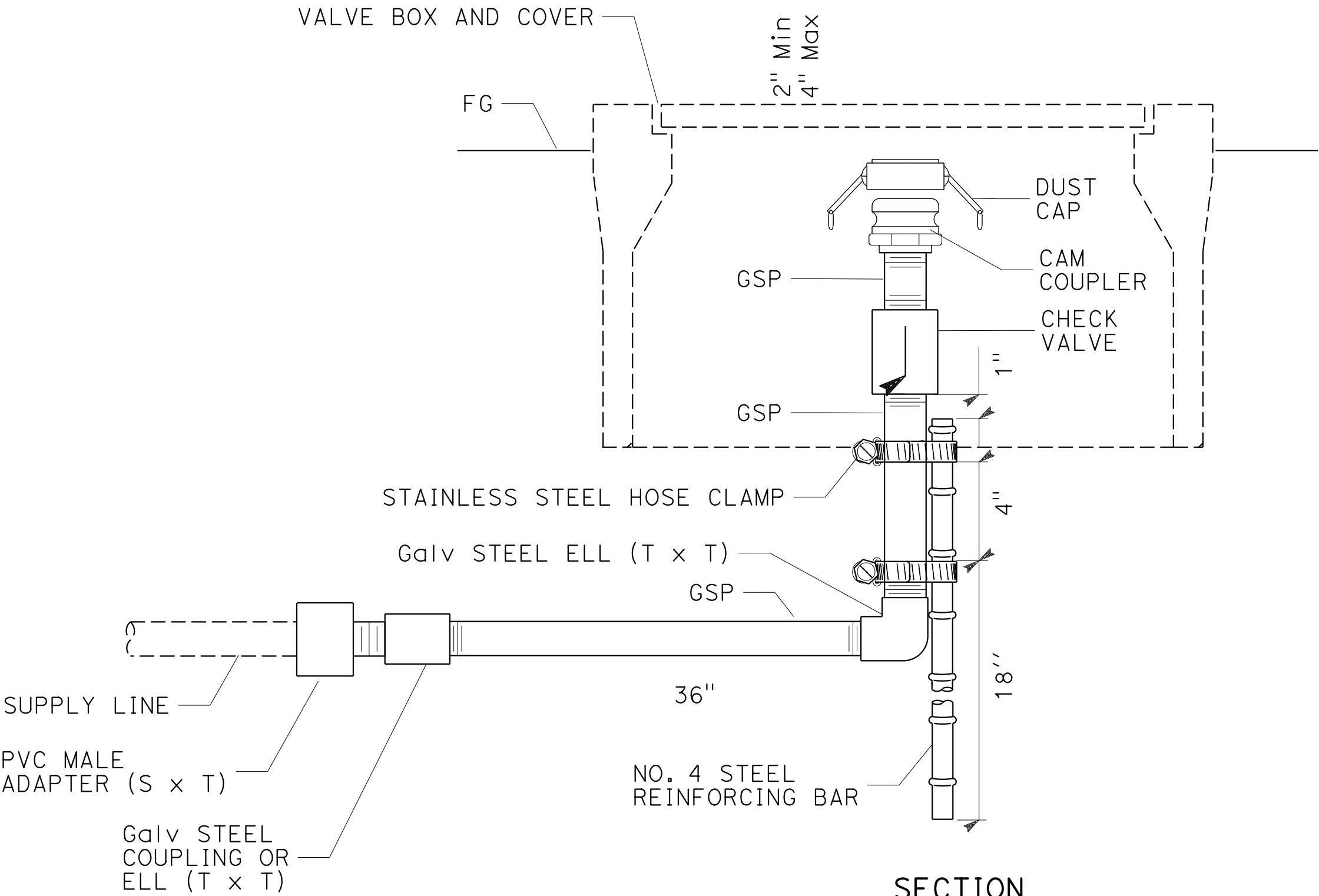
1. WOVEN WIRE CLOTH AND ROCK WITH VALVE BOX IS NOT REQUIRED.
2. VALVE BOX IDENTIFICATION IS NOT REQUIRED.



SECTION  
DRIP IRRIGATION WYE FILTER

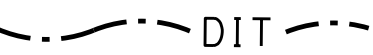
TEMPORARY IRRIGATION  
SYSTEM QUANTITIES

SHEET NUMBER	(N)	(N)	(N)	(N)	(N)
	CAM COUPLER ASSEMBLY	DRIP IRRIGATION WYE FILTER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	DRIP IRRIGATION TUBING	CHECK VALVE
	1 1/2" EA	3/4" EA	3/4" LF	1/2" LF	EA
IP-1	2	2	357	365	2
IP-2	1	1	360	90	
IP-3	1	1	442	416	2
TOTAL	4	4	1,159	871	4




SECTION  
CAM COUPLER ASSEMBLY

IRRIGATION SPRINKLER SCHEDULE

SYMBOL	ITEM DESCRIPTION	SPRINKLER TYPE	OPERATING PRESSURE	DISCHARGE RATE (+/-5%)	PRESSURE COMPENSATING	REMARKS
			psi	GPH		
	DRIP IRRIGATION TUBING	EMITTER	20	2.0	Req	TWO EMITTERS PER PLANT. LOCATE AT UPHILL EDGE OF PLANTING HOLE. USE EXTERNAL BARBED EMITTERS.

IRRIGATION SPRINKLER SCHEDULE  
ISS-1

STATE OF CALIFORNIA

 CALTRANS

DEPARTMENT OF TRANSPORTATION

LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

CALCULATED-DESIGNED BY

CHECKED BY

CHELSEA MOORE

PKB

REVISD BY

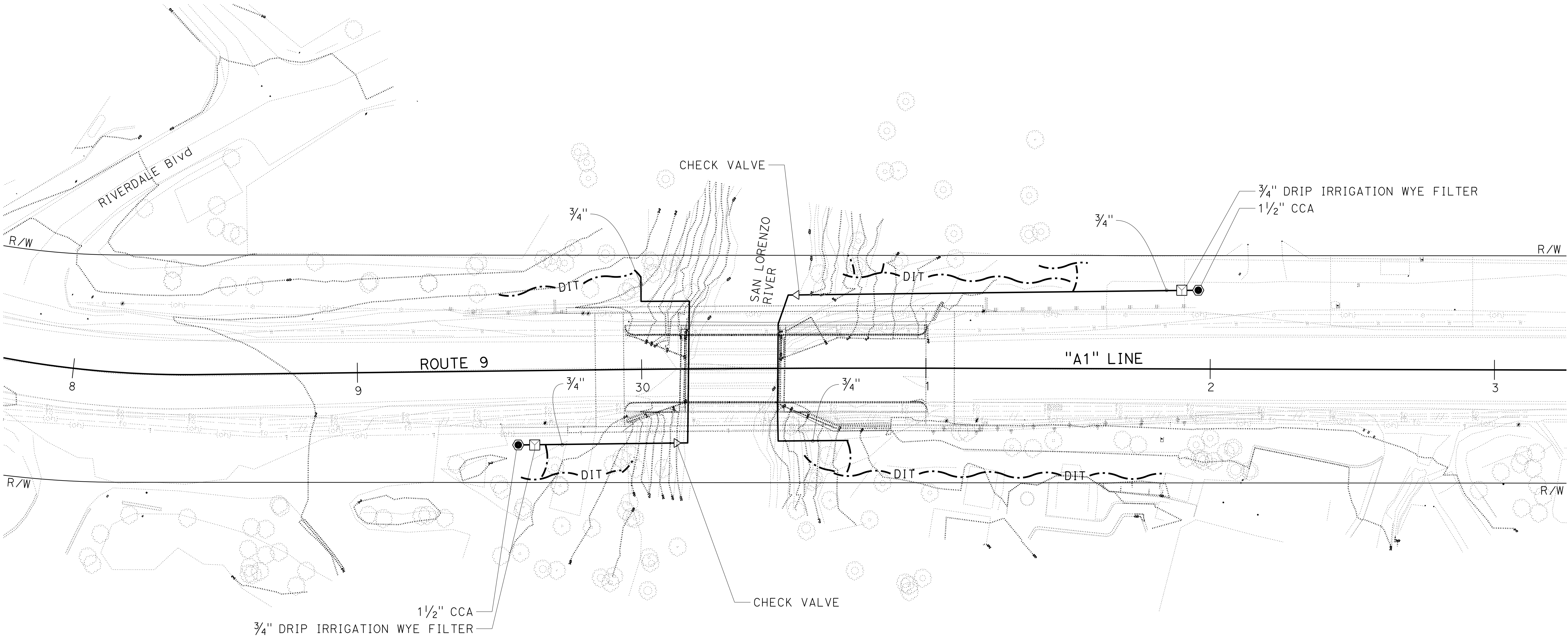
DATE REVISED

CKM

10-29-21

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SAN LORENZO RIVER BRIDGE  
PM 13.6

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN  
IP-1


SCALE: 1"=20'

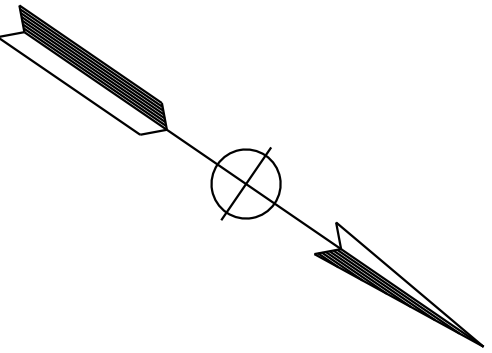
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.





STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CORBY KILMER	CALCULATED-DESIGNED BY	CHECKED BY	CHELSEA MOORE	REVISED BY	CKM		

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT

Chelsea K Moore No. 8595

Signature

1-31-22

Renewal Date

XX-XX-XX

Date

STATE OF CALIFORNIA

Diagram showing the irrigation layout for the Kings Creek Bridge area. The plan includes Route 9, the "ECL1" LINE, and various irrigation components such as drippers, filters, and CCA lines. Key features include:

- ROUTE 9
- "ECL1" LINE
- POOL DR
- MATCH LINE (IP-3)
- Labels for 3/4" and 1 1/2" CCA
- Labels for 3/4" DRIP IRRIGATION WYE FILTER
- Labels for 3/4" and 1 1/2" CCA
- Labels for 3/4" and 1 1/2" CCA

KINGS CREEK BRIDGE  
PM 15.5

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN  
SCALE: 1"=20' IP-2

BORDER LAST REVISED 7/2/2010

USERNAME => s150921  
DGN FILE => 0516000078sp002 IP-2 Kings.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

0

1

2

3

UNIT 1502

PROJECT NUMBER & PHASE

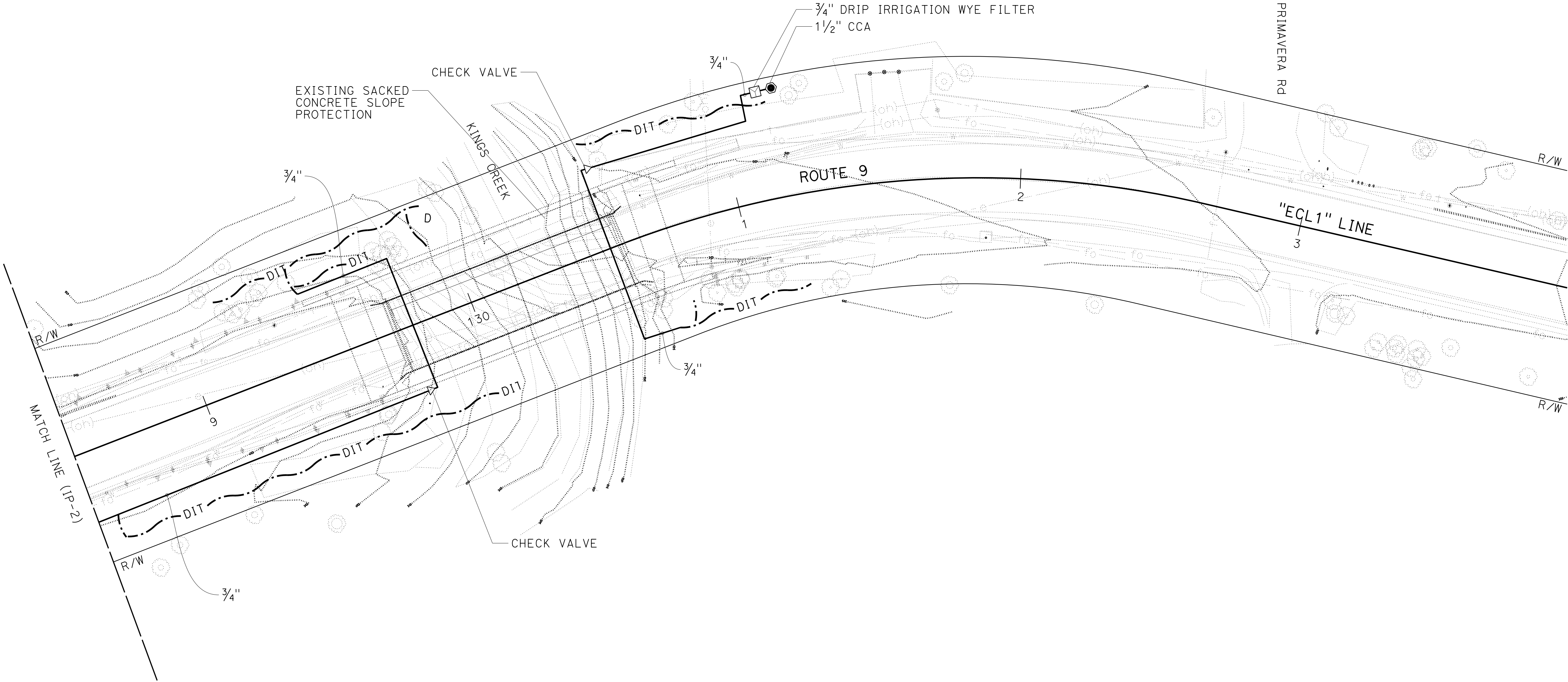
05160000781

LAST REVISION DATE PLOTTED => 1-NOV-2021  
00-00-00 TIME PLOTTED => 10:24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	CORBY KILMER	CALCULATED-DESIGNED BY	CHECKED BY	CHELSEA MOORE	REVISED BY	CKM		
DATE PLOTTED => 1-NOV-2021	TIME PLOTTED => 10:37	LAST REVISION	00-00-00	00-00-00	00-00-00	00-00-00	00-00-00	00-00-00	00-00-00

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



KINGS CREEK BRIDGE  
PM 15.5

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN  
SCALE: 1"=20' IP-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		
LICENSED LANDSCAPE ARCHITECT					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

LANDSCAPE ARCHITECTURE

CHITERS

CKM

REVISD BY

DATE REVISED

10-29-21

PKB

CHECKED BY

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

PLANT LEGEND

PLANT GROUP (SIZE)	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE		BASIN TYPE	③ WOOD MULCH	① ② SOIL AMENDMENT	ON CENTER SPACING	MINIMUM PLANTING DISTANCE FROM:						REMARKS
					DIAMETER	DEPTH					⑧						
					INCH	INCH		BASIN			ETW	EP	FENCE	WALL	PAVED DITCH	EARTH DITCH	
A (No. 1)	1		HETEROMELES ARBUTIFOLIA	TOYON	14	10	I	1	0.25	12		12	12	10	10	6	SHRUB ⑤⑥
	2		RHAMNUS CALIFORNICA	COFFEEBERRY	14	10	I	1	0.25	12		10	10	8	8	6	SHRUB ⑤⑥
B (No. 5)	3		ACER MACROPHYLLUM	BIG-LEAF MAPLE	24	18	I	2	0.5	⑦	30		10	10	10	6	TREE ⑤⑥
	4		ALNUS RUBRA	RED ALDER	24	18	I	2	0.5	⑦	30		10	10	10	6	TREE ⑤⑥
	5		PSEUDOTSUGA MENZIESII	DOUGLAS FIR	24	18	I	2	0.5	⑦	30		10	10	10	6	TREE ⑤⑥
	6		SEQUOIA SEMPERVIRENS	REDWOOD	24	18	I	2	0.5	⑦	30		10	10	10	6	TREE ⑤⑥
	7		UMBELLULARIA CALIFORNICA	BAY LAUREL	24	18	I	2	0.5	⑦	30		10	10	10	6	TREE ⑤⑥
H (CUTTING)	8		SALIX LASIOLEPIS	ARROYO WILLOW	④	24				6	30		6	6	6	6	SHRUB

PLANTING REQUIREMENTS

- ① QUANTITIES SHOWN ARE "PER PLANT"

② SOIL AMENDMENT MUST BE FINE COMPOST

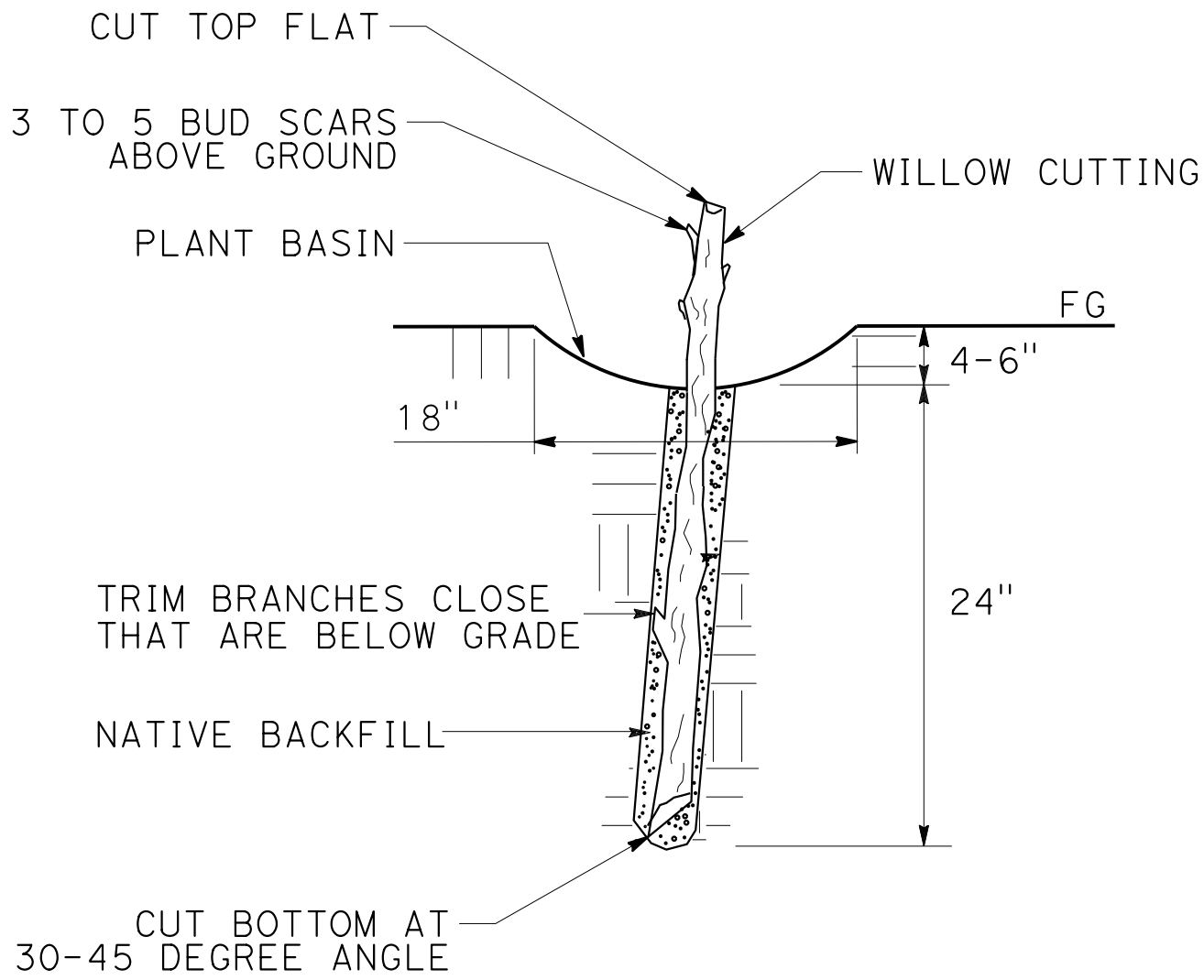
③ BASIN MULCH TO BE WOOD CHIP MULCH

④ SUFFICIENT TO RECEIVE CUTTING

⑤ FOLIAGE PROTECTOR REQUIRED

⑥ ROOT PROTECTOR REQUIRED
- ⑦ AS SHOWN ON PLAN. VARY PLANT SPACING UP TO 3’ TO PROVIDE A MORE RANDOM NATURAL APPEARANCE.

⑧ NOT APPLICABLE WHERE TREES ARE BEHIND BARRIER. WHERE TREES ARE BEHIND BARRIER, USE MINIMUM PLANTING DISTANCE OF 10’ FROM BARRIER.



SECTION  
WILLOW CUTTING  
NO SCALE

PLANT QUANTITIES

BOTANICAL NAME	COMMON NAME	PLANT GROUP A	PLANT GROUP B	PLANT GROUP H	WOOD MULCH BASIN	SOIL AMENDMENT	FOLIAGE PROTECTOR	ROOT PROTECTOR
		EA	EA	EA	CY	CY	EA	EA
ACER MACROPHYLLUM	BIG LEAF MAPLE		6		0.4	0.1	6	6
ALNUS RUBRA	RED ALDER		8		0.6	0.1	8	8
PSEUDOTSUGA MENZIESII	DOUGLAS FIR		5		0.4	0.1	5	5
SEQUOIA SEMPERVIRENS	COAST REDWOOD		19		1.4	0.4	19	19
UMBELLULARIA CALIFORNICA	BAY LAUREL		12		0.9	0.2	12	12
HETEROMELES ARBUTIFOLIA	TOYON	17			0.6	0.2	17	17
RHAMNUS CALIFORNICA	COFFEEBERRY	23			0.9	0.2	23	23
SALIX LASIOLEPIS	ARROYO WILLOW			76				
TOTAL		40	50	76	5.6	1.3	90	90

PLANT LEGEND  
PL - 1

Dist COUNTY ROUTE POST MILES TOTAL PROJECT SHEET No. TOTAL SHEETS

05 SCr 9 13.6/15.5

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE


THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT Chelsea K Moore No. 6899 Signature 1-31-22 Renewal Date XX-XX-XX Date STATE OF CALIFORNIA

LEGEND:

LIMITS OF ROADSIDE CLEARING, INVASIVE PLANT MANAGEMENT, AND PLANT ESTABLISHMENT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 **LANDSCAPE ARCHITECTURE**

CORBY KILMER

SENIOR LANDSCAPE ARCHITECT

CHECKED BY

CALCULATED-DESIGNED BY

PKB

CHELSEA MOORE

DATE REVISED

REVISD BY

10-29-21

CKM

NOTE:


1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE
2. FIELD FIT PROPOSED PLANTING WHERE SPACE ALLOWS TO MINIMIZE DISTURBANCE TO EXISTING TREES AND SHRUBS

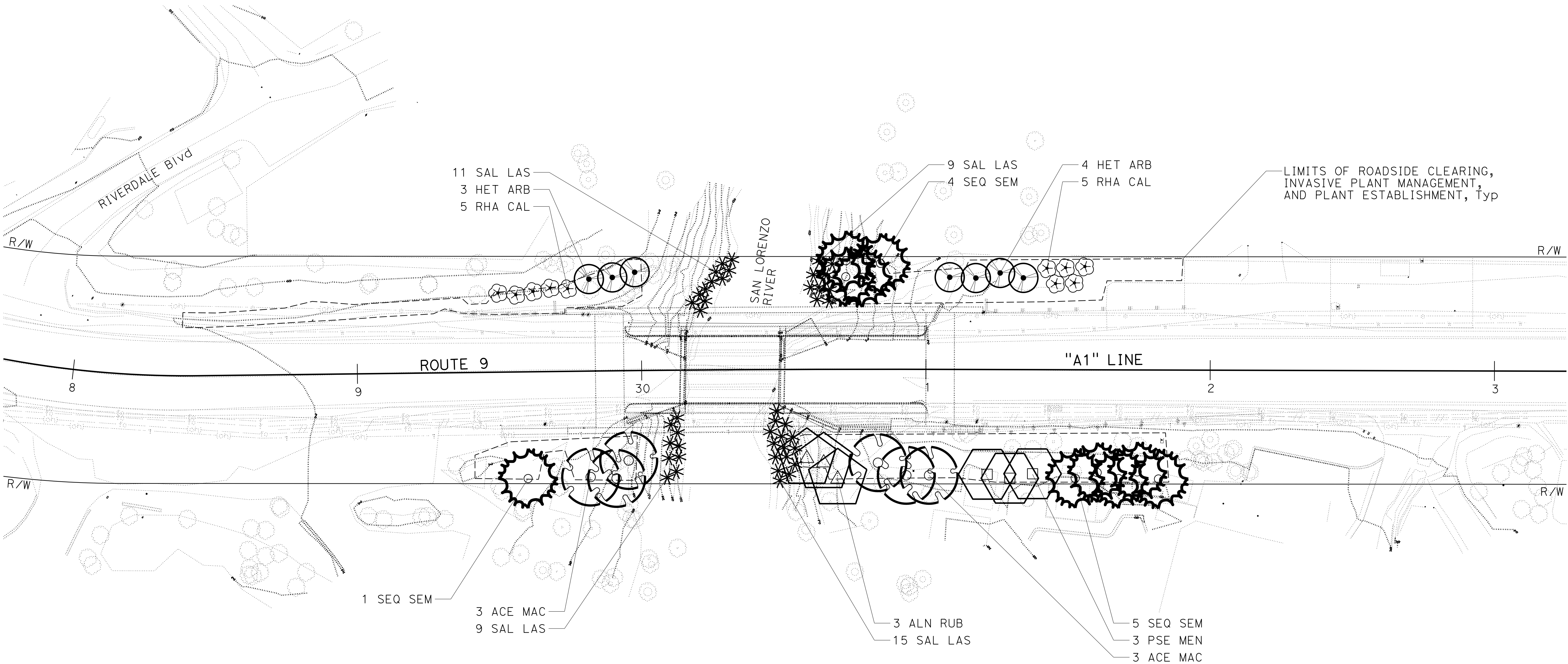
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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SAN LORENZO RIVER BRIDGE  
PM 13.6

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN  
PP-1

SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 **LANDSCAPE ARCHITECTURE**

CORBY KILMER

SENIOR LANDSCAPE ARCHITECT

CHECKED BY

CALCULATED/DESIGNED BY

PKB

CHELSEA MOORE

DATE REVISED

REVISD BY

10-29-21

CKM

NOTE:

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT

Chelsea K Moore No. 8595

Signature

1-31-22

Renewal Date

XX-XX-XX

Date

STATE OF CALIFORNIA

KINGS CREEK BRIDGE  
PM 15.5

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN  
PP-2

SCALE: 1"=20'

BORDER LAST REVISED 7/2/2010

USERNAME => s150921  
DGN FILE => 0516000078su002 PP-2 Kings.dgn

RELATIVE BORDER SCALE IS IN INCHES

0

1

2

3

UNIT 1502

PROJECT NUMBER & PHASE

05160000781

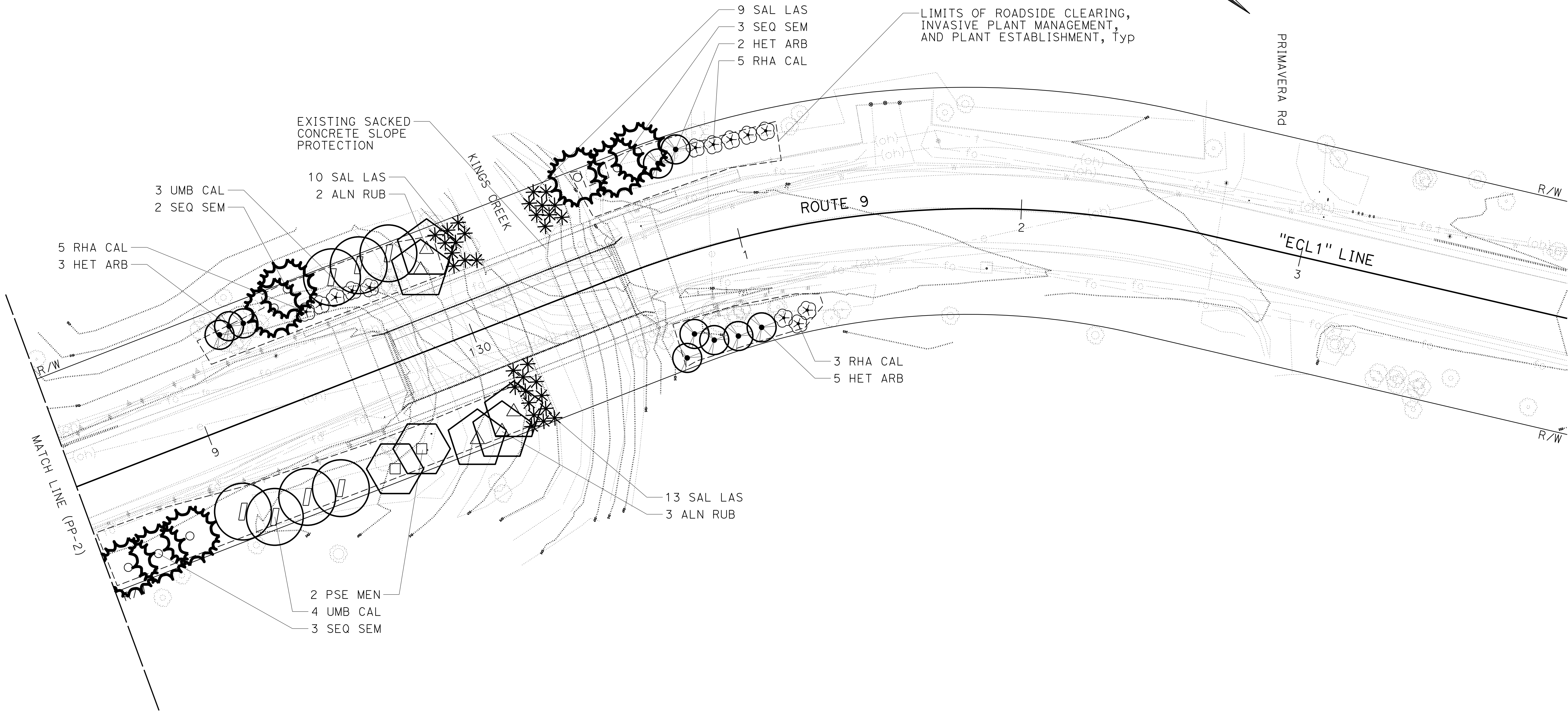
LAST REVISION DATE PLOTTED => 29-OCT-2021  
00-00-00 TIME PLOTTED => 14:50

x  
x  
x  
x  
x  
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT		CALCULATED-DESIGNED BY	CHELSEA MOORE	REVISD BY	CKM		
		CORBY KILMER							
		CHECKED BY							
		PKB							
DATE		10-29-21							

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE
2. FIELD FIT PROPOSED PLANTING WHERE SPACE ALLOWS TO MINIMIZE DISTURBANCE TO EXISTING TREES AND SHRUBS




KINGS CREEK BRIDGE  
PM 15.5

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN  
PP-3

SCALE: 1"=20'

STATE OF CALIFORNIA



DEPARTMENT OF TRANSPORTATION

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

LANDSCAPE ARCHITECTURE

EROSION CONTROL TYPE 1					
SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	FINE	135 CY/ACRE	COMPOST RATE EQUALS APPROXIMATELY 1" DEPTH
STEP 2	HYDROSEED	SEED	MIX 1	18.5 LB/ACRE	
		FIBER	WOOD	3,000 LB/ACRE	
		TACKIFIER	PSYLLIUM	200 LB/ACRE	
STEP 3	RECP NETTING	NETTING	A		

EROSION CONTROL TYPE 2					
SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	FINE	135 CY/ACRE	COMPOST RATE EQUALS APPROXIMATELY 1" DEPTH
STEP 2	HYDROSEED	SEED	MIX 1	18.5 LB/ACRE	
		FIBER	WOOD	3,000 LB/ACRE	
		TACKIFIER	PSYLLIUM	200 LB/ACRE	

EROSION CONTROL TYPE 3					
SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	FINE	135 CY/ACRE	COMPOST RATE EQUALS APPROXIMATELY 1" DEPTH
STEP 2	DRY SEED	SEED	MIX 2	6.1 LB/ACRE	

COMPOST SOCK				
SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
IN EC AREAS, COMPOST SOCK MUST BE INSTALLED AFTER HYDROSEED AND NETTING	COMPOST SOCK	MESH TUBE	8" Dia BURLAP	TYPE 2 INSTALLATION

SEED MIX 1 (RIPARIAN)		
BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (WHITE YARROW)	75	0.3
ACMISPON GLABAR (DEER WEED)	70	3.0
ARTEMISIA DOUGLASIANA (MUGWORT)	40	0.1
BROMUS CARINATUS (CA BROME)	70	3.0
ELYMUS GLAUCUS (BLUE WILD RYE)	70	2.0
HORDEUM BRACHYANTHERUM (BARLEY)	70	3.0
JUNCUS BALTICUS (BALTIC RUSH)	50	0.1
ROSA CALIFORNICA (CA ROSE)	40	1.0
TRIFOLIUM WILLDENOVII (TOMCAT CLOVER)	70	2.0
VULPIA MICROSTACHYS (SMALL FESCUE)	70	4.0

SEED MIX 2 (WETLAND)		
BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (WHITE YARROW)	75	0.2
CYPERUS ERAGROSTIS (TALL FLATSEEDGE)	70	0.2
ELYMUS GLAUCUS (BLUE WILD RYE)	70	3.5
JUNCUS BUFONIUS (TOAD RUSH)	55	0.1
JUNCUS MEXICANUS (MEXICAN RUSH)	60	0.1
TRIFOLIUM WILLDENOVII (TOMCAT CLOVER)	70	2.0

EROSION CONTROL QUANTITIES								
DESCRIPTION	COMPOST	HYDROSEED	DRY SEED	RECP NETTING	COMPOST SOCK	HYDROSEED MATERIALS (N)		
						MIX 1	FIBER	TACKIFIER
	CY	SQFT	SQFT	SQFT	LF	LB	LB	LB
EC TYPE 1	13.3	4,294		4,294	220	1.8	296	20
EC TYPE 2	54.9	17,721				7.5	1,220	81
EC TYPE 3	1.2		396					
TOTAL	69.4	22,015	396	4,294	220			

(N) - NOT A SEPARATE BID ITEM.

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

05

Scr

9

13.6/15.5

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT

Chelsea K. Moore No. 6899

Signature

1-31-22

Renewal Date

XX-XX-XX


Date

STATE OF CALIFORNIA

EROSION CONTROL LEGEND

ECL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CORBY KILMER

CALCULATED-DESIGNED BY

CHECKED BY

CHELSEA MOORE

PKB

REVISED BY

DATE REVISED

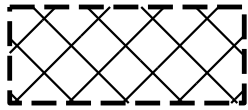
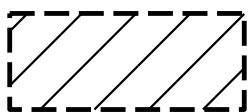


CKM

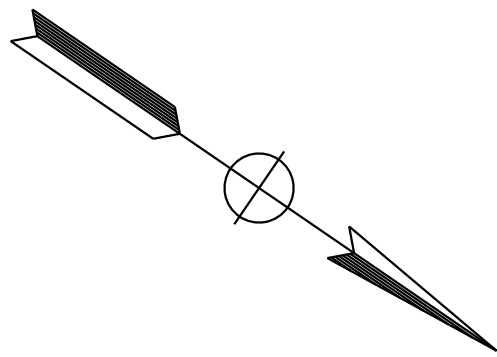
10-29-21

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.


LEGEND:

-  EROSION CONTROL TYPE 1
-  EROSION CONTROL TYPE 2
-  EROSION CONTROL TYPE 3
-  COMPOST SOCK



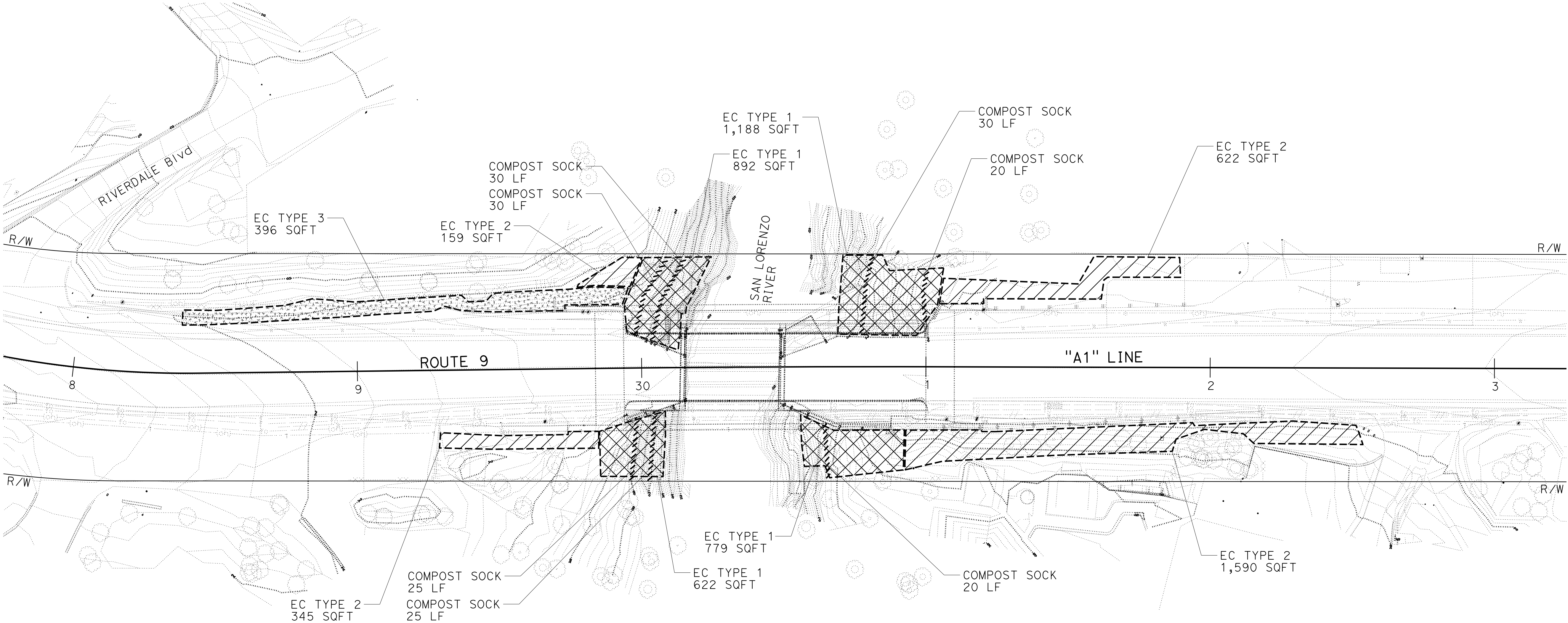
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT



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SAN LORENZO RIVER BRIDGE  
PM 13.6

EROSION CONTROL PLAN  
SCALE: 1"=20' EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 **LANDSCAPE ARCHITECTURE**

CORBY KILMER

SENIOR LANDSCAPE ARCHITECT

CHECKED BY

CALCULATED/DESIGNED BY

PKB

CHELSEA MOORE

DATE REVISED

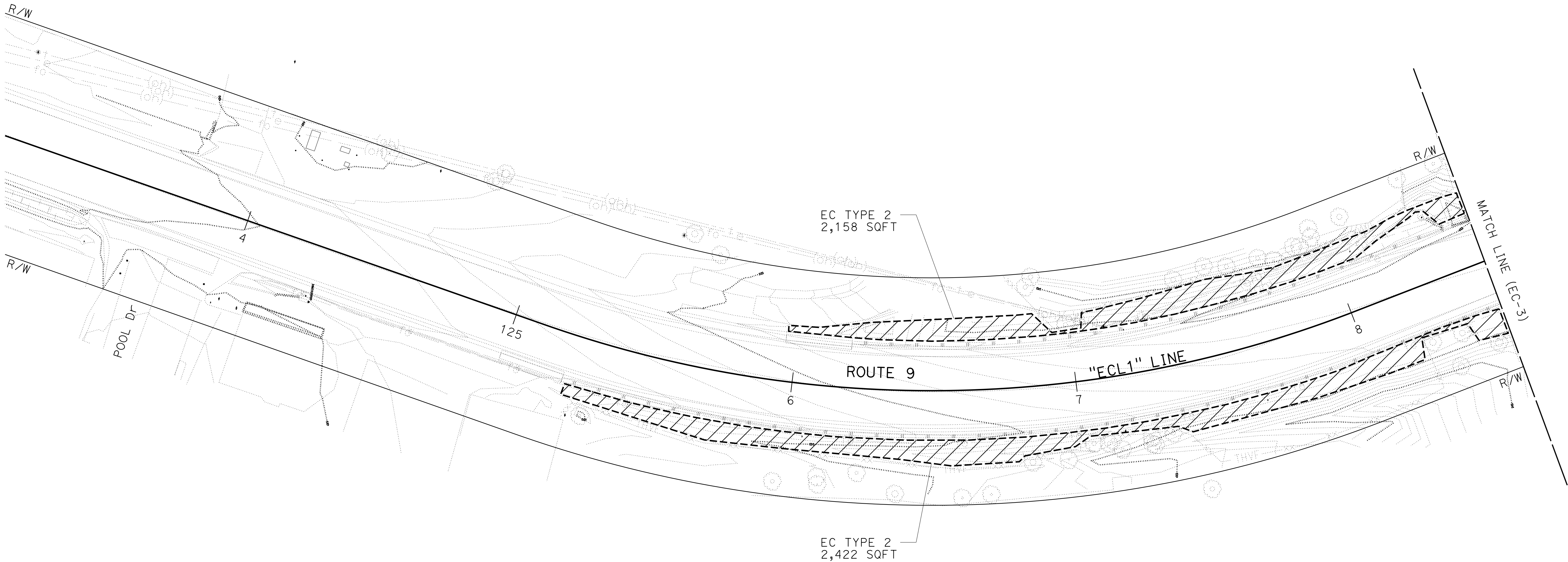
REVISD BY

10-29-21

CKM

**NOTE:**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**KINGS CREEK BRIDGE  
PM 15.5**

APPROVED FOR EROSION CONTROL WORK ONLY

**EROSION CONTROL PLAN  
EC-2**

SCALE: 1"=20'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		
LICENSED LANDSCAPE ARCHITECT					
PLANS APPROVAL DATE					
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LICENSED LANDSCAPE ARCHITECT

Chelsea K Moore No. 8595

Signature

1-31-22

Renewal Date

XX-XX-XX

Date

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	CORBY KILMER	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	CHECKED BY	CHELSEA MOORE	REVISD BY	CKM		
						PKB	DATE REVISED			10-29-21

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT

Chelsea K Moore No. 8595

Signature

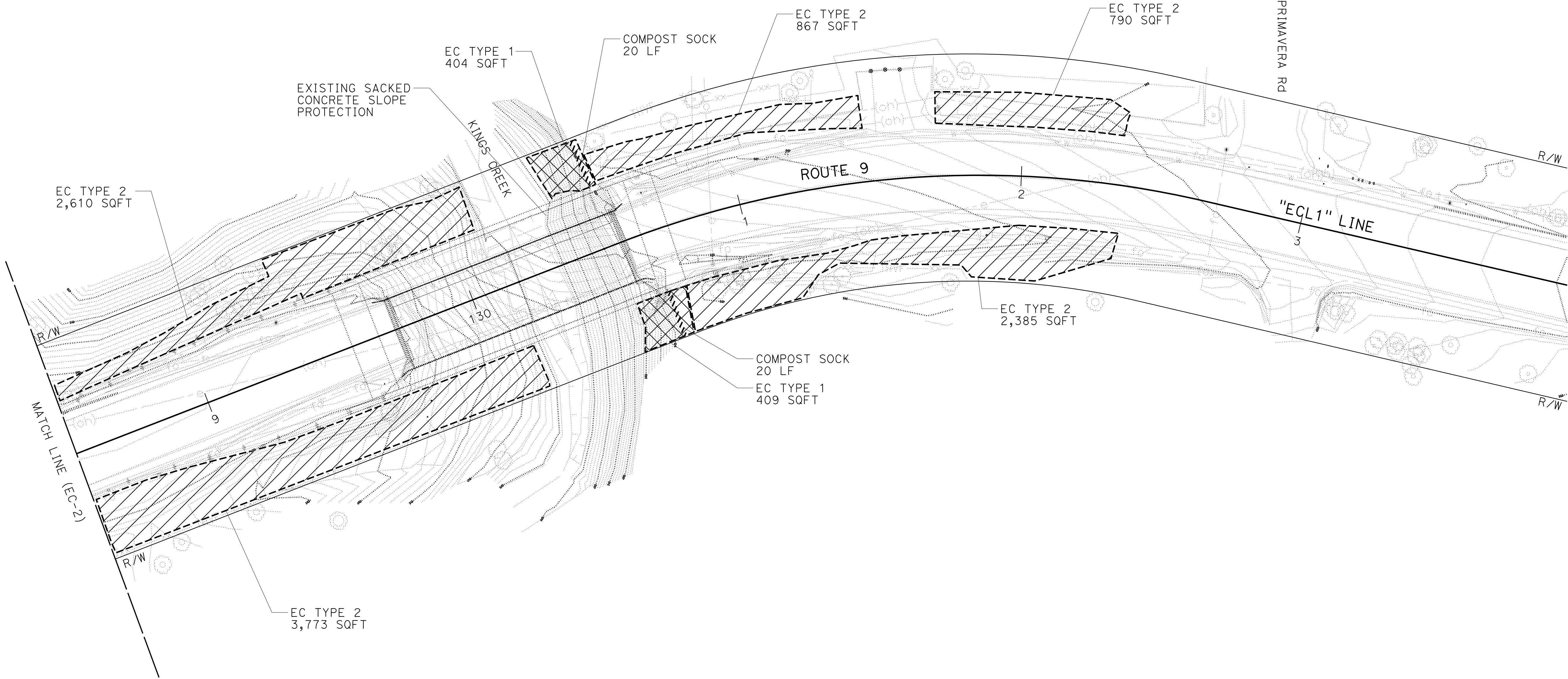
1-31-22

Renewal Date

XX-XX-XX

Date

STATE OF CALIFORNIA



KINGS CREEK BRIDGE  
PM 15.5

EROSION CONTROL PLAN  
EC-3

APPROVED FOR EROSION CONTROL WORK ONLY

SCALE: 1"=20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5		??

REGISTERED ELECTRICAL ENGINEER    DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

BRYAN SABAGUIT

No. E21616

9/30/22

Exp. ELECTRICAL

STATE OF CALIFORNIA

LEGEND:

1 120/240 V, SINGLE PHASE, 3-WIRE, TYPE A SERVICE ON TEMPORARY WOOD POLE WITH THE FOLLOWING CIRCUIT BREAKERS:



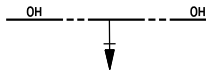





AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN DISCONNECT	YES	-
20	120	1	LIGHTING	YES	IV
15	120	1	FLASHING BEACONS	YES	-
30	120	1	SIGNAL	YES	-

- 2 SEE DETAIL E ON SHEET ED-2 FOR TEMPORARY WOOD POLE.
- 3 DEPARTMENT-FURNISHED MODEL 2070E CONTROLLER ASSEMBLY, ADD UPS, WIRELESS MODEM, AND VID EQUIPMENT. FOR CABINET PLATFORM, SEE DETAIL C ON SHEET ED-1.
- 4 SPLICE THREE TYPE A LOOP DETECTORS TO ONE TYPE D. PLACE LOOP DETECTORS AS SHOWN IN DETAIL D ON SHEET ED-1.
- 5 SECURE CONDUIT TO EXIST BRIDGE RAIL.
- 6 GENERATOR SYSTEM WITH CHAIN LINK FENCE AND GATE AS SHOWN IN DETAIL G ON SHEET ED-2.
- 7 SEE DETAIL B ON SHEET ED-1 FOR TEMPORARY WOOD POLES Sig AND Ltg.
- 8 ADD TEMPORARY WOOD POLE TO MAINTAIN Max SPACING.
- 9 SEE DETAIL F ON SHEET ED-2 FOR TEMPORARY WOOD POLE Ltg WITH TYPE III PEC.
- 10 FOR R10-26 SIGN DETAILS REFER TO TRAFFIC HANDLING PLANS.
- 11 SEE DETAIL A ON SHEET ED-1 FOR TEMPORARY WOOD POLE Sig.
- 12 SEE DETAIL H ON SHEET ED-2 FOR TEMPORARY WOOD POLE FB.

ABBREVIATIONS:


PG&E      PACIFIC GAS AND ELECTRIC COMPANY  
VID      VIDEO IMAGE DETECTION

SYMBOLS:

-  TEMPORARY WOOD POLE FB
-  TEMPORARY WOOD POLE Sig AND Ltg
-  Sig HEAD ON OVERHEAD BUNDLE
-  OVERHEAD BUNDLE WITH 1#8(G) AND CONDUCTORS AS NOTED
-  TEMPORARY WOOD POLE Sig
-  TEMPORARY WOOD POLE
-  GENERATOR SYSTEM
-  TEMPORARY WOOD POLE Ltg

TEMPORARY SIGNAL SYSTEMS  
E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR  
ALI BAKHOUD

DESIGNED BY  
DOUGLAS NDEITHI

CHECKED BY  
BRYAN SABAGUIT

REVISOR  
DN

DATE  
07-27-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

BRYAN SABAGQUIT

No. E21616

9/30/22

EXPIRATION DATE

ELECTRICAL

STATE OF CALIFORNIA

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.  
2. ALL PULL BOXES MUST BE NO. 3/2 UNLESS OTHERWISE NOTED.

SAN LORENZO RIVER BRIDGE (LOC 1)  
PM 13.6

TEMPORARY SIGNAL SYSTEMS

SCALE: 1"=20'

E-2

APPROVED FOR ELECTRICAL WORK ONLY

BORDER LAST REVISED 7/2/2010

USERNAME => s149650  
DGN FILE => 0516000078u002.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

0 1 2 3

UNIT 1515

PROJECT NUMBER & PHASE

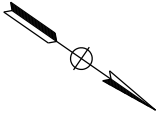
05160000781

DATE PLOTTED => 9-SEP-2021  
TIME PLOTTED => 11:24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> ELECTRICAL DESIGN	ALI BAKHOUD	DOUGLAS NOELTHI	DN	07-27-21

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.  
2. ALL PULL BOXES MUST BE NO. 3/2 UNLESS OTHERWISE NOTED.

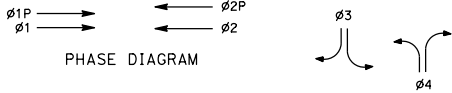
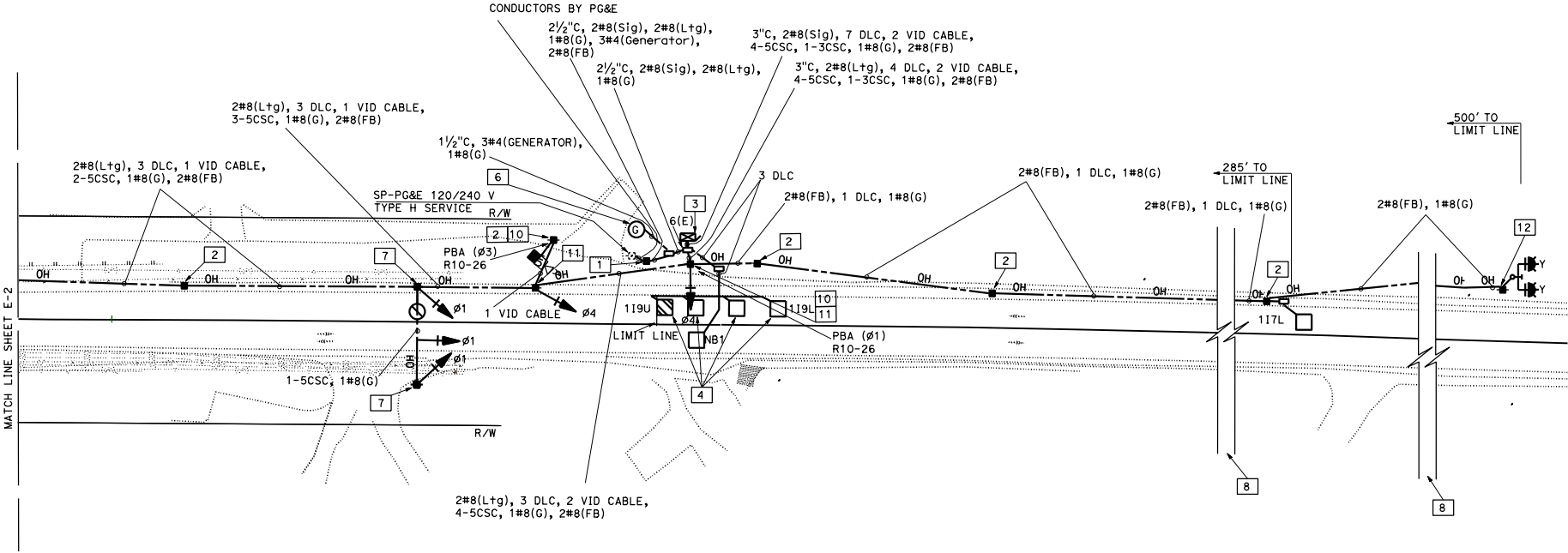


SAN LORENZO RIVER BRIDGE (LOC 1)  
PM 13.6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

REGISTERED ELECTRICAL ENGINEER DATE  
BRYAN SABAGQUIT  
No. E21616  
9/30/22  
ELECTRICAL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE  
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STEADY DEMAND SEQUENCE

TEMPORARY SIGNAL SYSTEMS

SCALE: 1"=20'

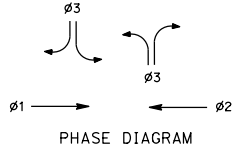
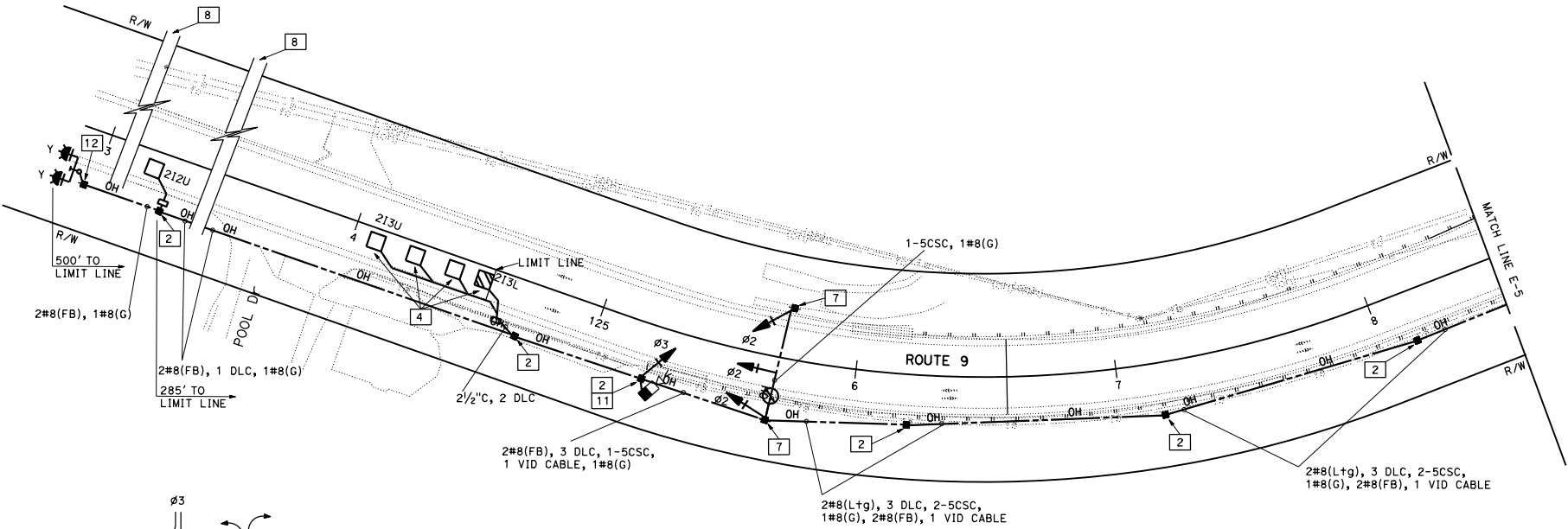
E-3

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCr	9	13.6/15.5		

REGISTERED ELECTRICAL ENGINEER DATE  
BRYAN SABAGQUIT 9/30/22  
PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



KINGS CREEK BRIDGE (LOC 2)  
Br No. 36-0054 PM 15.5

**TEMPORARY SIGNAL SYSTEMS**

**E-4**

APPROVED FOR ELECTRICAL WORK ONLY

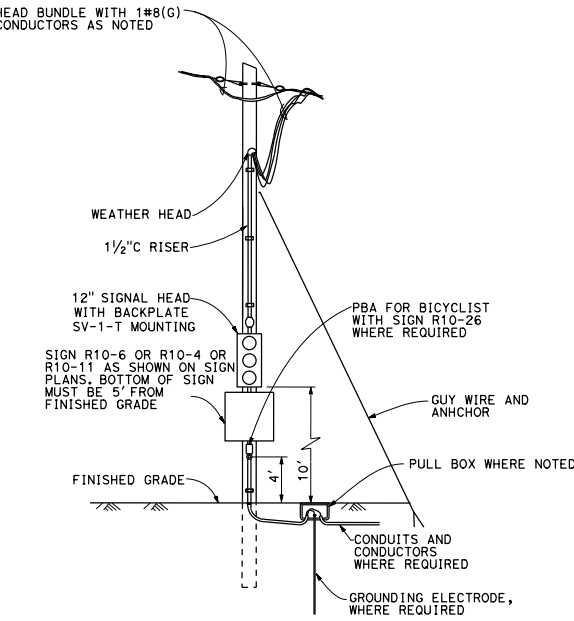
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BORDER LAST REVISED 7/2/2010	USERNAME => s149650 DGN FILE => 0516000078ug005.dgn
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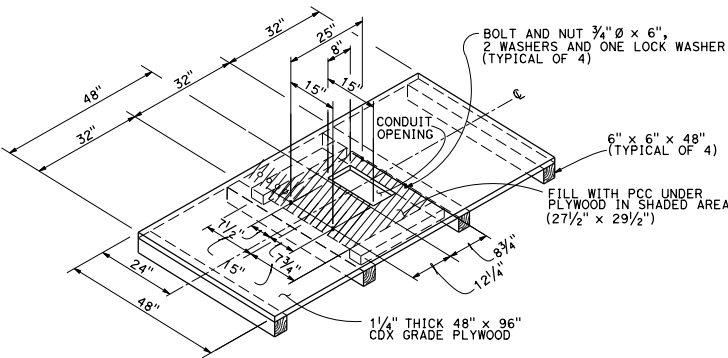


07 07 21	DATE PLOTTED => 9-SEP-2021
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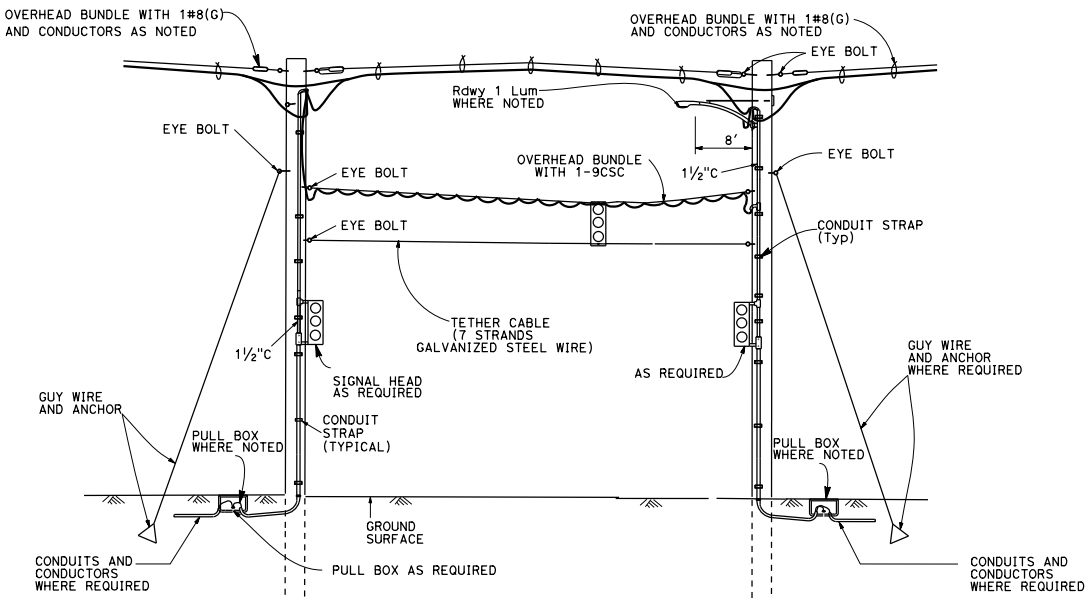
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5	??	??
REGISTERED ELECTRICAL ENGINEER			DATE	BRYAN SABAGUIT No. E21616 Exp. 9/30/22 STATE OF CALIFORNIA ELECTRICAL	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



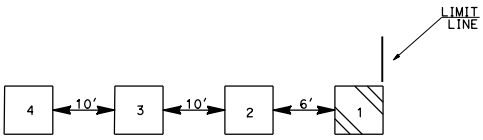
TEMPORARY WOOD POLE Sig  
**DETAIL A**



CABINET PLATFORM  
**DETAIL C**



TEMPORARY WOOD POLES Sig AND Ltg  
**DETAIL B**



LOOP DETECTORS  
PLACEMENT  
**DETAIL D**

**ELECTRICAL DETAILS**  
NO SCALE  
**ED-1**

LAST REVISION DATE PLOTTED => 9-SEP-2021  
07-27-21 TIME PLOTTED => 11:24

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Scr	9	13.6/15.5	??	??
REGISTERED ELECTRICAL ENGINEER			DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

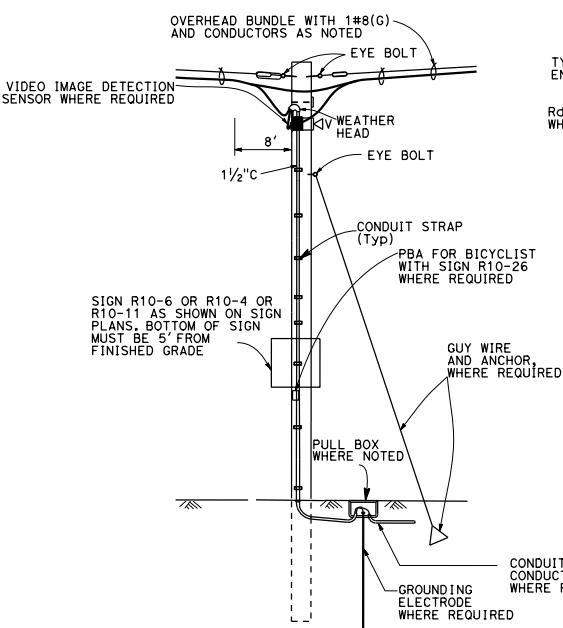
BRYAN SABAGUIT

No. E21616

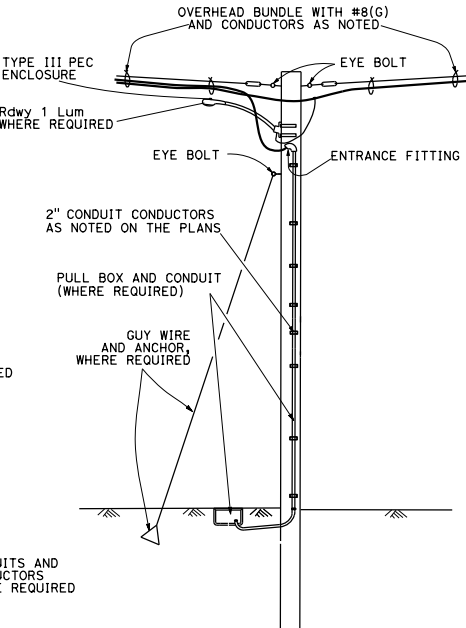
Exp. 9/30/22

ELECTRICAL

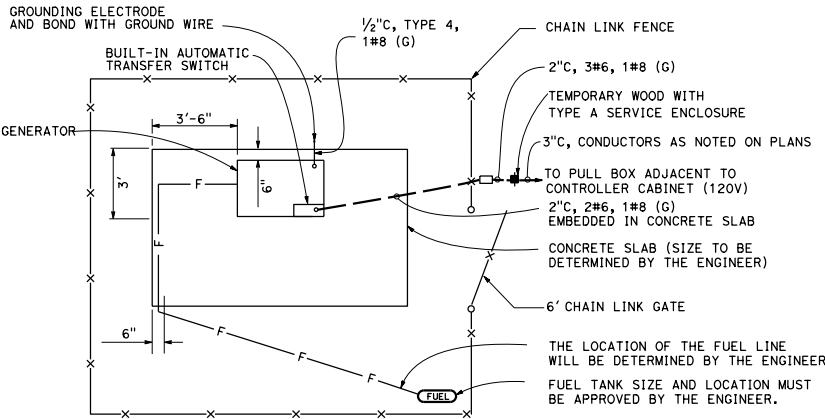
STATE OF CALIFORNIA



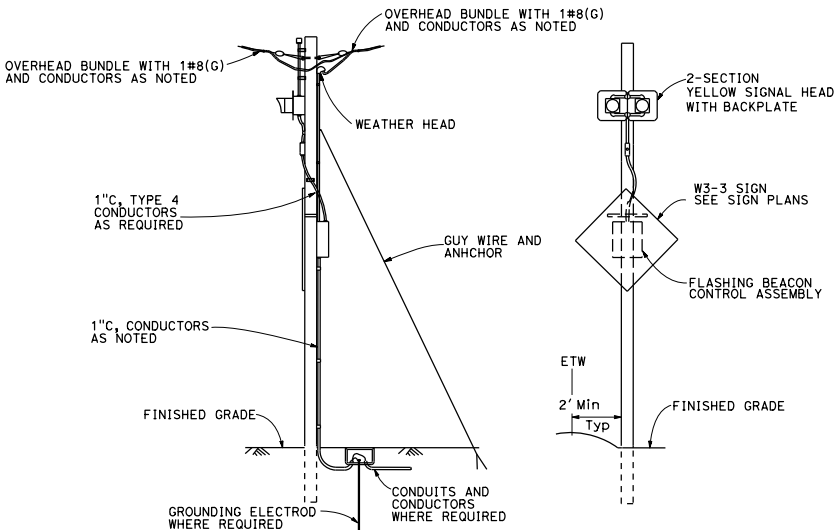
TEMPORARY WOOD POLE  
DETAIL E



TEMPORARY WOOD POLE Ltg  
DETAIL F



GENERATOR SYSTEM  
DETAIL G



TEMPORARY WOOD POLES FB  
DETAIL H

ELECTRICAL DETAILS  
ED-2

NO SCALE

NOTES:

ELECTRICAL SYSTEM QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS.  
SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS  
NEEDED FOR EACH SYSTEM.

ABBREVIATIONS:

Cu COPPER  
VID VIDEO IMAGE DETECTION

Dist

COUNTY

ROUTE

POST MILES  
TOTAL PROJECT

SHEET  
No.

TOTAL  
SHEETS

05

Scr

9

13.6/15.5

??

REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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REGISTERED PROFESSIONAL ENGINEER

BRYAN  
SABAGQUIT

No. E21616

9/30/22

Exp. ELECTRICAL

STATE OF CALIFORNIA

TEMPORARY SIGNAL SYSTEMS

SHEET NO.	FA										LF									
	No. 3-1/2 PB	No. 6(E) PB	DETECTOR LOOP, TYPE A	DETECTOR LOOP, TYPE D	DETECTOR-STUB SHOULDER	1-1/2"C, TYPE 3	2"C, TYPE 3	2-1/2"C, TYPE 3	3"C, TYPE 3	No. 8 CONDUCTOR (Cu)	No. 4 CONDUCTOR (Cu)	No. 8 CONDUCTOR (G) (Cu)	PULL ROPE	9CSC	3CSC	DLC				
E-2	4			1	5		131			2164		680	680	402	402	1560				
E-3	3	1	5	1	5	13	15	23	10	1840	52	811	811	660	465	250				
E-4	2		4	1	5			12		1770		555	555	470	370	2265				
E-5	6	1	4	1	5	5	200		12	2400	15	865	865	750	392	1985				

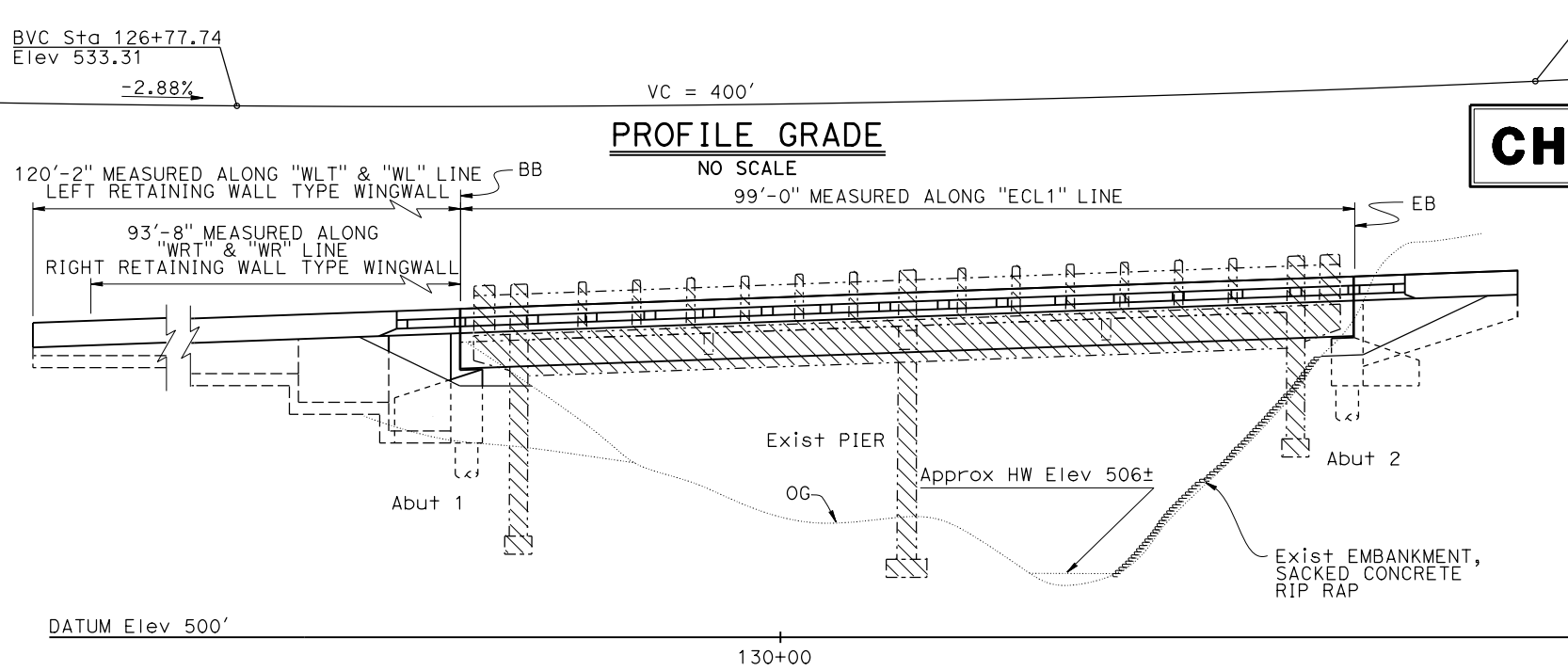
(N) - NOT A SEPARATE BID ITEM

TEMPORARY SIGNAL SYSTEMS

SHEET No.	STANDARD- TYPE 30/30-SB W/ 15' LMA																					
	LUMINAIRE - 235W LED																					
E-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
E-3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
E-4	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
E-5	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FA																						
	8	12	7	16																		
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</																						

(N) - NOT A SEPARATE BID ITEM

ELECTRICAL SYSTEMS QUANTITIES  
EQ-1



**CHECKED DETAILS**

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

Office of  
Structure Design  
STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

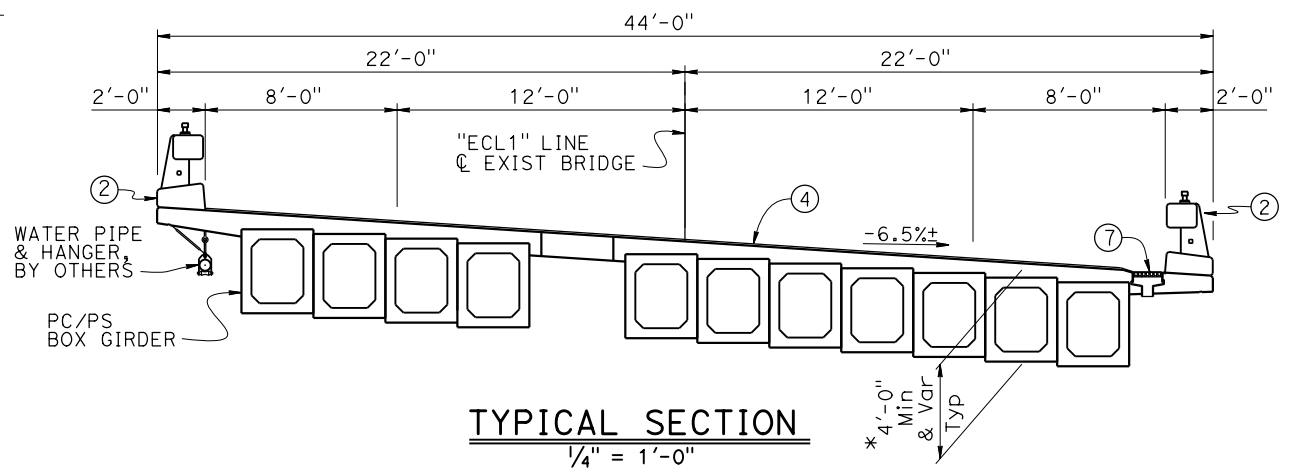
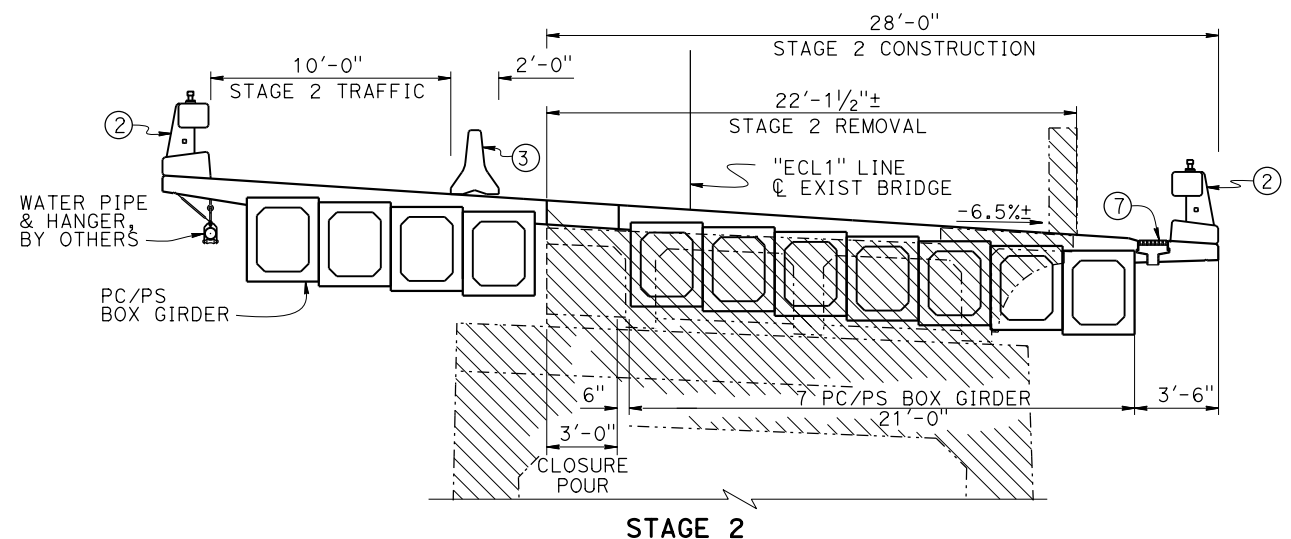
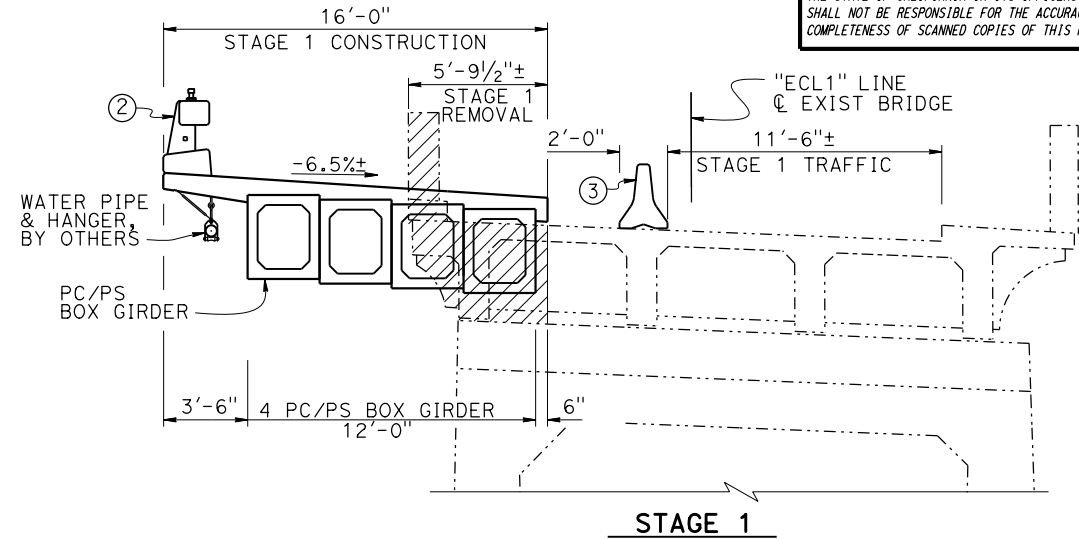
Joey M Aquino III

No. 58386

Exp. 12-31-22

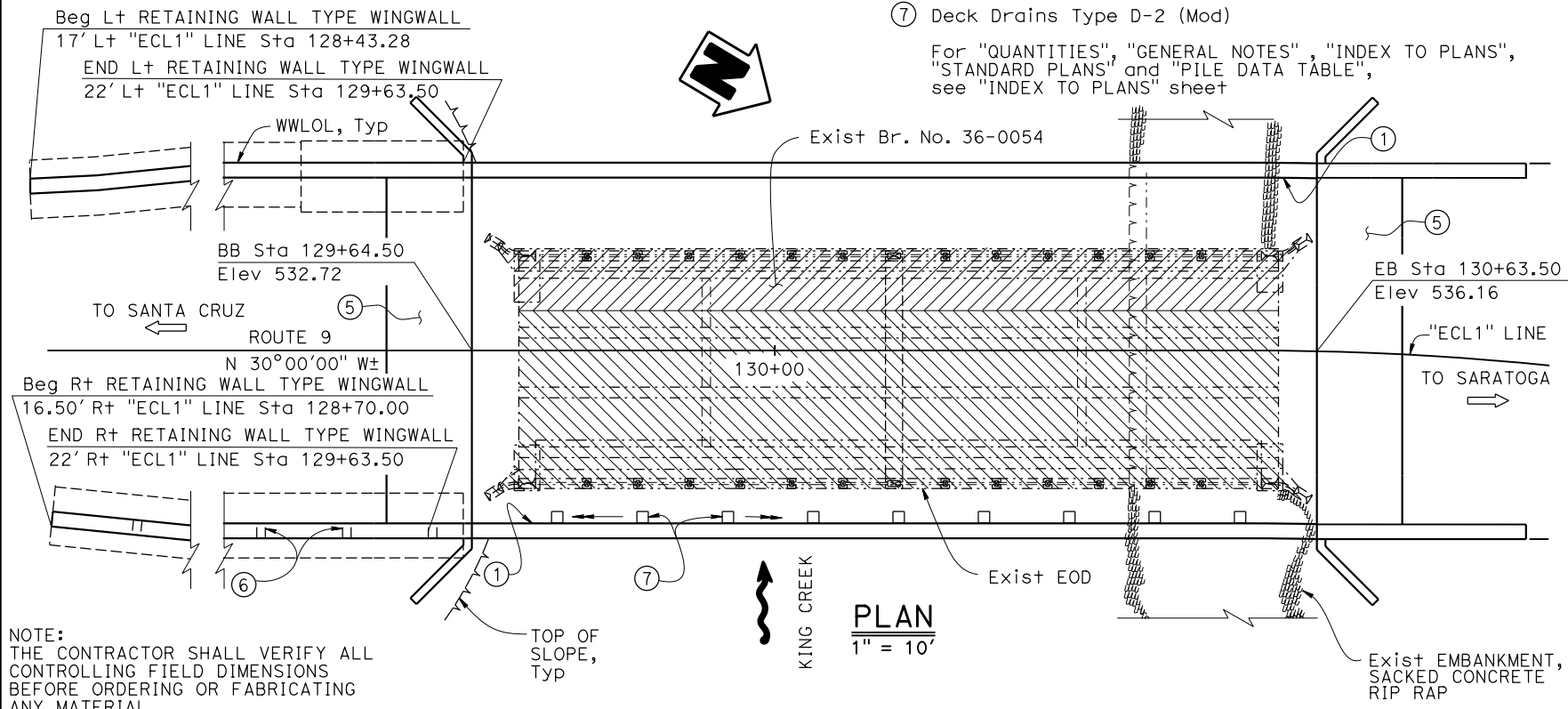
CIVIL

STATE OF CALIFORNIA



- NOTES:
- ① Paint "KINGS CREEK BRIDGE "  
"Br. No. 36-0125", year constructed
  - ② Concrete Barrier Type 85 (Mod)
  - ③ Temporary Railing (Type K), see Roadway Plans
  - ④ Polyester Concrete Overlay (1")
  - ⑤ Structure Approach Type EQ (10)
  - ⑥ Scuppers (10'-0" Spacing)
  - ⑦ Deck Drains Type D-2 (Mod)

For "QUANTITIES", "GENERAL NOTES", "INDEX TO PLANS",  
"STANDARD PLANS" and "PILE DATA TABLE",  
see "INDEX TO PLANS" sheet



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

Joseph E Downing BRANCH CHIEF	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING HL93 W/"LOW-BOY" & PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No. 36-0125	KINGS CREEK BRIDGE (REPLACE)								
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh	LAYOUT	BY Shadi Motalebi			CHECKED Quang Nguyen	POST MILE 15.49	GENERAL PLAN							
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama	SPECIFICATIONS	BY X			PLANS AND SPECS COMPARED X									
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 3/10/2021)						DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-a-gp.dgn	TIME PLOTTED => 16:03 USERNAME => s136540	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3		UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3-11-21		SHEET 1	OF X

GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:  
AASHTO LRFD Bridge Design Specifications,  
2017 8th edition with California Amendments,  
preface dated April 2019

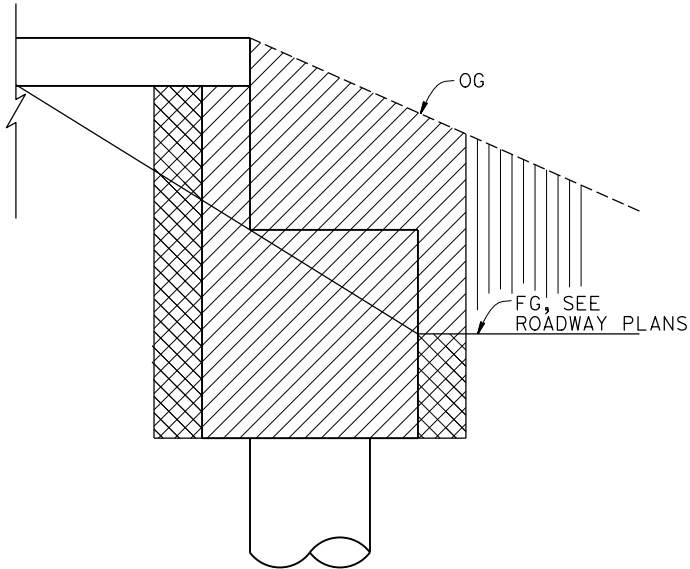
SEISMIC DESIGN:  
Caltrans Seismic Design Criteria (SDC),  
Version 2.0 dated April 2019  
See SITE SPECIFIC ARS CURVE

DEAD LOAD:  
Includes 35 psf for future wearing surface

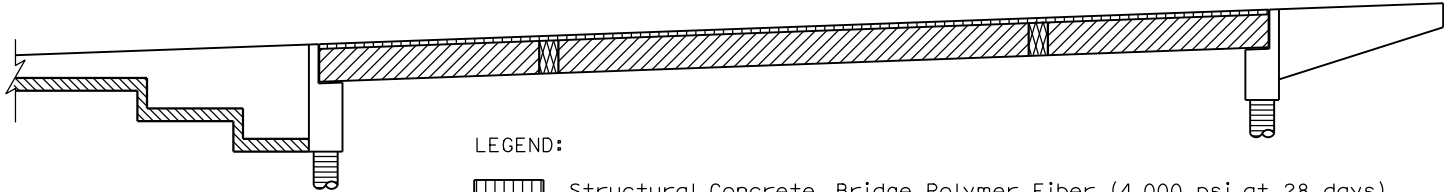
LIVE LOADING:  
HL93 and permit design load  
Permit Load not allowed during Stage 1  
construction

REINFORCED CONCRETE:  
fy = 60 ksi  
f'c = 3.6 ksi  
n = 8

PRESTRESSING STEEL:  
See "PRESTRESSING NOTES" on "PC/PS BOX  
GIRDER DETAILS No. 1" sheet



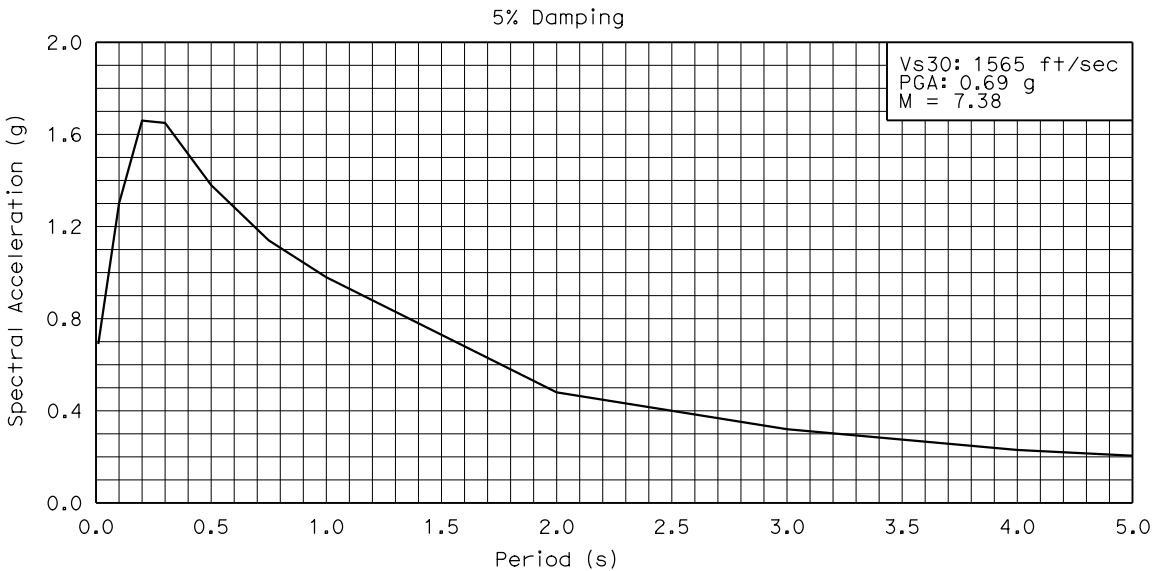
LIMITS OF EXCAVATION AND BACKFILL  
NO SCALE



CONCRETE STRENGTH AND TYPE LIMITS  
No Scale

PILE DATA TABLE						
Location	Pile Type	Nominal Resistance (kips)		Pile Cut-Off Elevation (ft)	Design Tip Elevations (ft)	Specified Tip Elevation (ft)
		Compression	Tension			
Abutment 1	30" ø CIDH	400	0.0	522.4	500(a)	500
Abutment 2	30" ø CIDH	400	0.0	525.4	500.4(a)	500.4

NOTES:  
1. Design tip elevgtions are controlled by: (a) Compression Strength Limit State  
2. The CIDH Specified Tip Elevation shall not be raised



SITE SPECIFIC ARS CURVE  
NO SCALE

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

Office of  
Structure Design  
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

No. 58386

Exp. 12-31-22

CIVIL

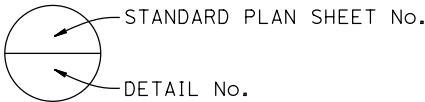
STATE OF CALIFORNIA

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS No. 1
8	ABUTMENT DETAILS No. 2
9	ABUTMENT DETAILS No. 3
10	RETAINING WALL LAYOUT No. 1
11	RETAINING WALL LAYOUT No. 2
12	TYPICAL SECTION
13	PC/PS BOX GIRDER LAYOUT
14	PC/PS BOXGIRDER DETAILS No. 1
15	PC/PS BOXGIRDER DETAILS No. 2
16	PC/PS BOXGIRDER DETAILS No. 3
17	BRIDGE REMOVAL DETAILS No. 1
18	BRIDGE REMOVAL DETAILS No. 2
19	LOG OF TEST BORINGS No. 1 OF 3
20	LOG OF TEST BORINGS No. 2 OF 3
21	LOG OF TEST BORINGS No. 3 OF 3

STANDARD PLANS DATED 2018

A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B3-1A	RETAINING WALL TYPE 1 (CASE 1)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-6	DECK DRAINS - TYPES D-1 AND D-2
B9-4	STRUCTURE APPROACH TYPE EQ (10)
RSP B11-83	CONCRETE BARRIER TYPE 85 DETAILS No. 1
RSP B11-84	CONCRETE BARRIER TYPE 85 DETAILS No. 2
RSP B11-85	CONCRETE BARRIER TYPE 85 DETAILS No. 3



HYDROLOGIC SUMMARY			
Drainage Area: 7.7 mi <sup>2</sup>			
	Design Flood	Base Flood	Overtopping Flood/ Flood of Record
Frequency	50-yr	100-yr	N/A
Discharge	2020 cfs	2360 cfs	N/A
Water Surface Elevation at Bridge	518.14 ft	520.12 ft	N/A

Flood plain data are based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

SCOUR DATA TABLE		
Support Location	Long Term (Degradation and Contraction) * Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	530.00	0.00
Abut 2	535.00	0.00

\* There is no anticipated degradation or contraction scour; this is the approximate ground elevation

No. #	R	Δ	T	L
1	410.00	07°32'49"	23.08	46.10
2	350.00	34°15'30"	107.87	209.27

SOFFIT ELEVATIONS

1 - 527.86	4 - 527.70
2 - 529.70	5 - 529.17
3 - 531.59	6 - 530.15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS		
REGISTERED CIVIL ENGINEER			X DATE				
PLANS APPROVAL DATE							
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REGISTERED PROFESSIONAL ENGINEER

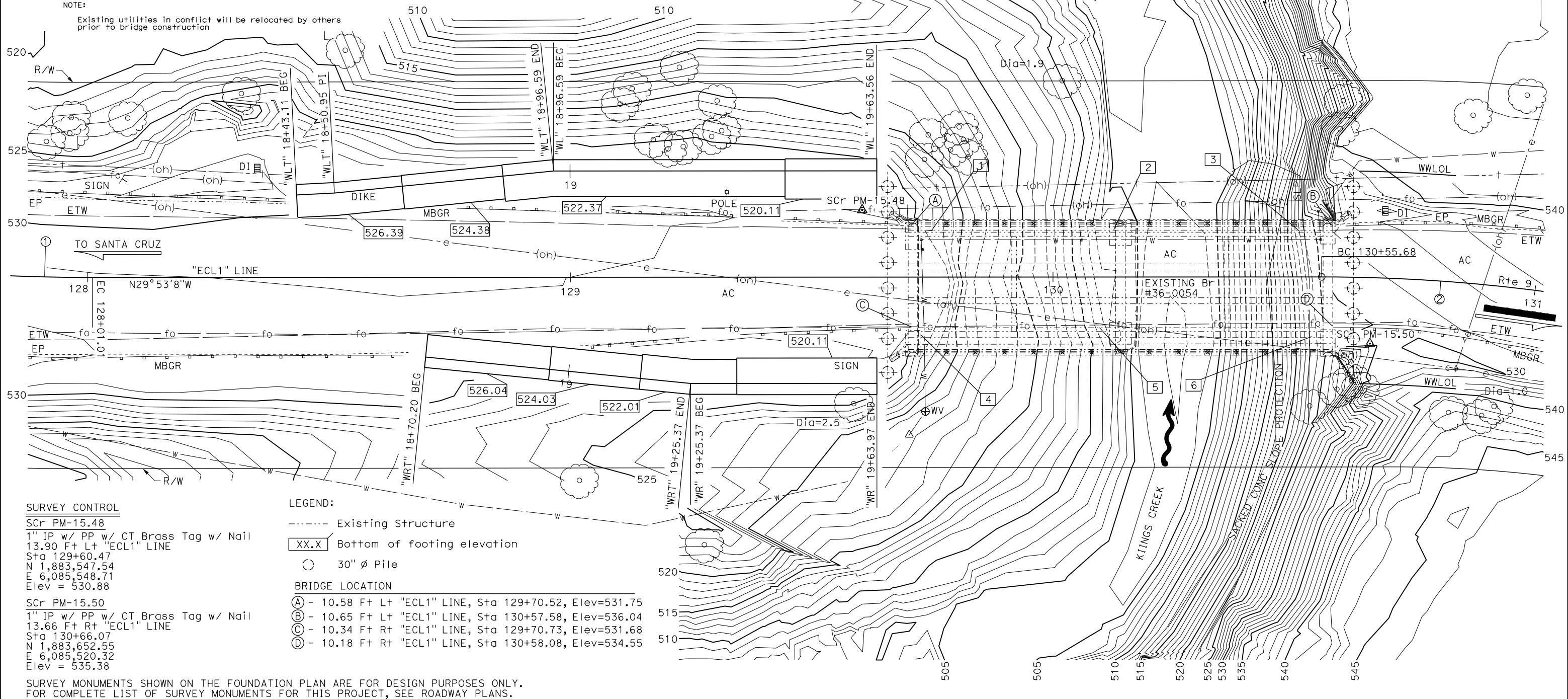
Joey M Aquino III

No. 58386

Exp. 12-31-22

CIVIL

STATE OF CALIFORNIA



PRELIMINARY INVESTIGATIONS BRANCH			DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No. 36-0125	KINGS CREEK BRIDGE (REPLACE) FOUNDATION PLAN		
SCALE:	VERT. DATUM: NAVD88	SURVEYED	BY DISTRICT	CHECKED H. PEREZ	CHECKED Alireza Yazdani Motlagh			POST MILE			
1" = 10'	HORIZ. DATUM: NAD83 (1991.35)	DRAFTED	BY S. ZHENG	CHECKED E. GONZALES	CHECKED Jacqueline Koyama			15.49			
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)			DATE PLOTTED => 3-DEC-2021	TIME PLOTTED => 16:03	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3646			
			FILE => 36-0125-e-fp101-revised.dgn	USERNAME => s136540		PROJECT NUMBER & PHASE: 05160000781		COUNTY/ROUTE: SCR/009	CONTRACT No.: 05-1H4704		
								DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES		
									04/28/21		
									X		
									X		

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

Office of  
Structure Design  
STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

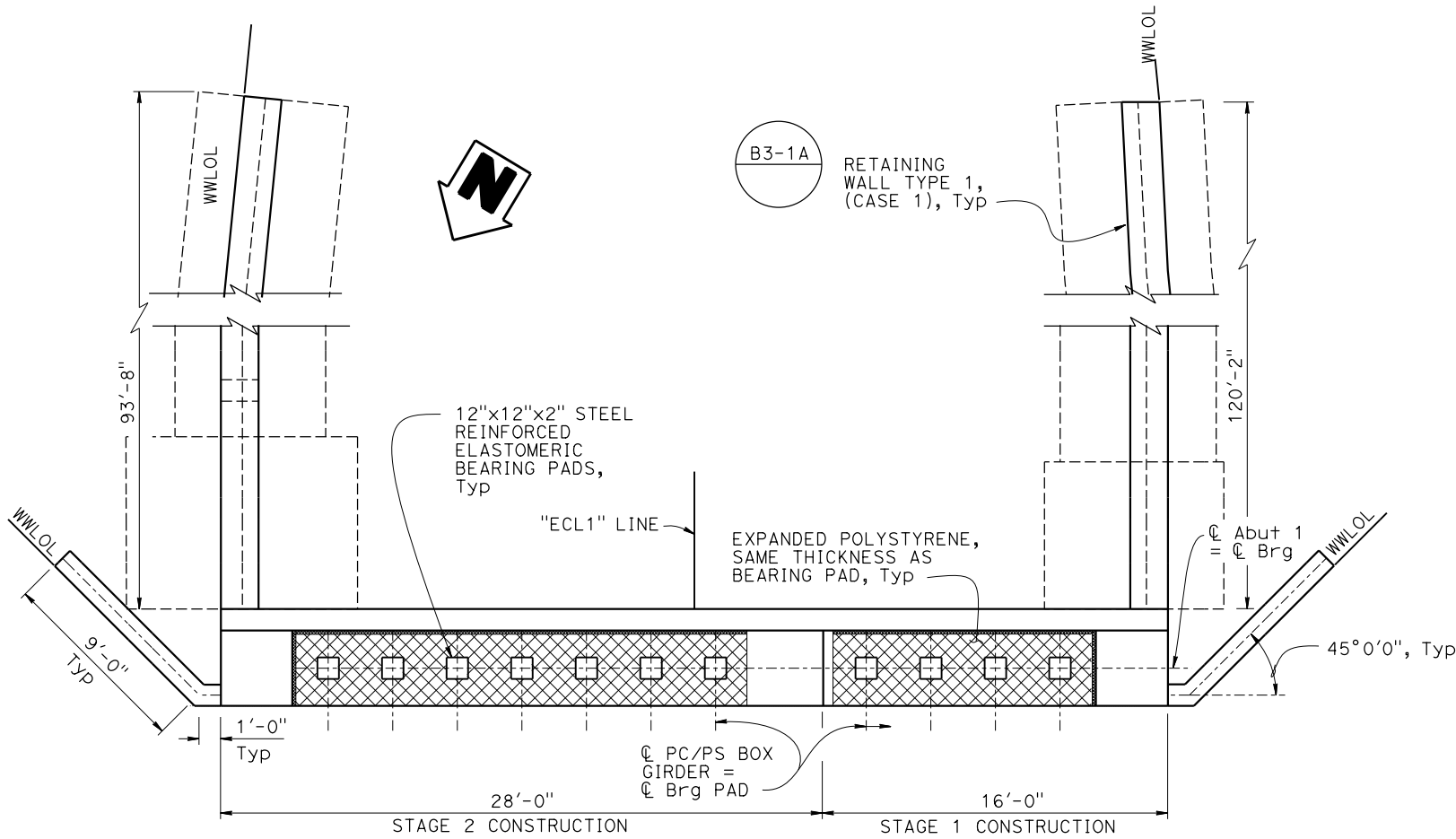
Joey M Aquino III

No. 58386

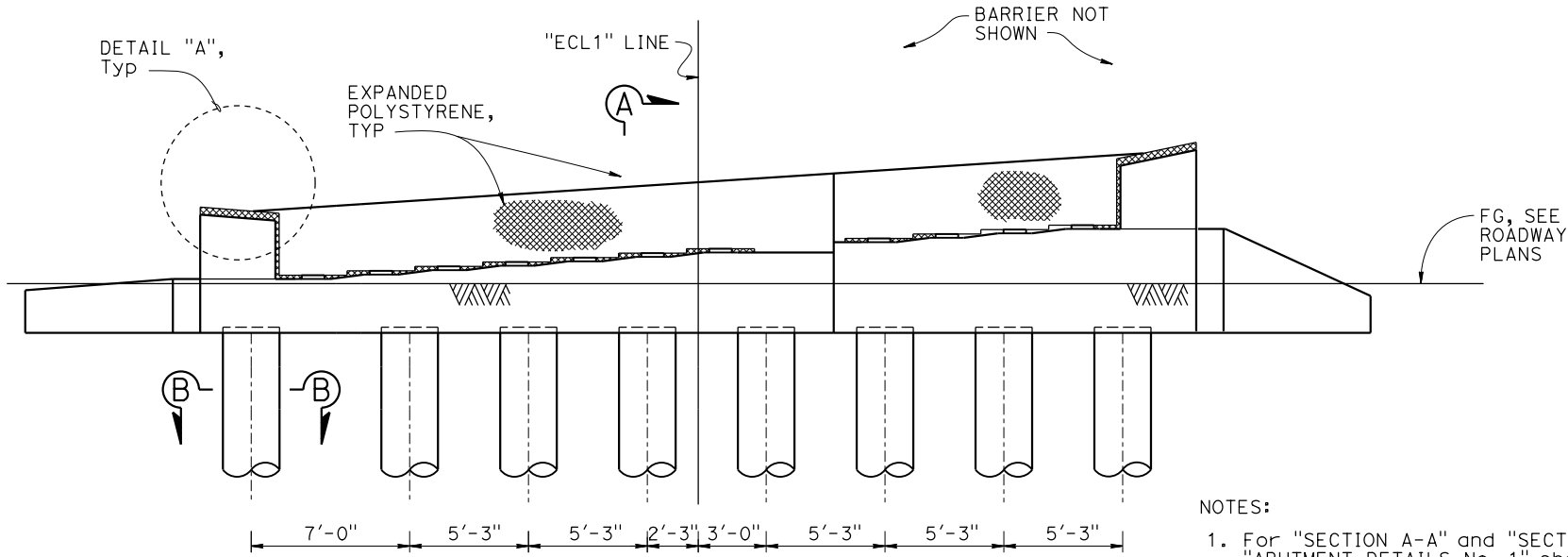
Exp. 12-31-22

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STATE OF CALIFORNIA



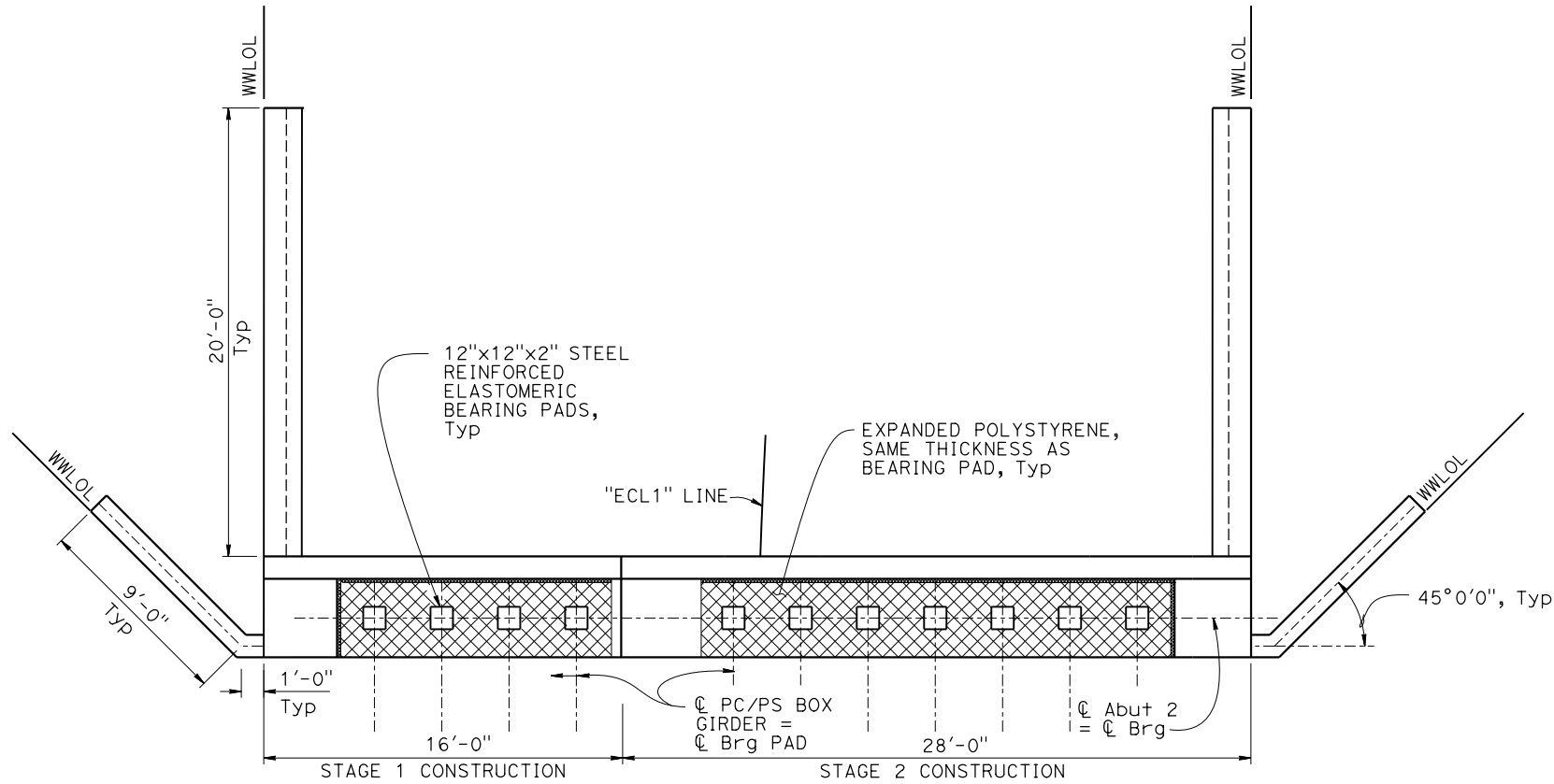
ABUTMENT PLAN  
1/4" = 1'-0"



ABUTMENT ELEVATION  
1/4" = 1'-0"

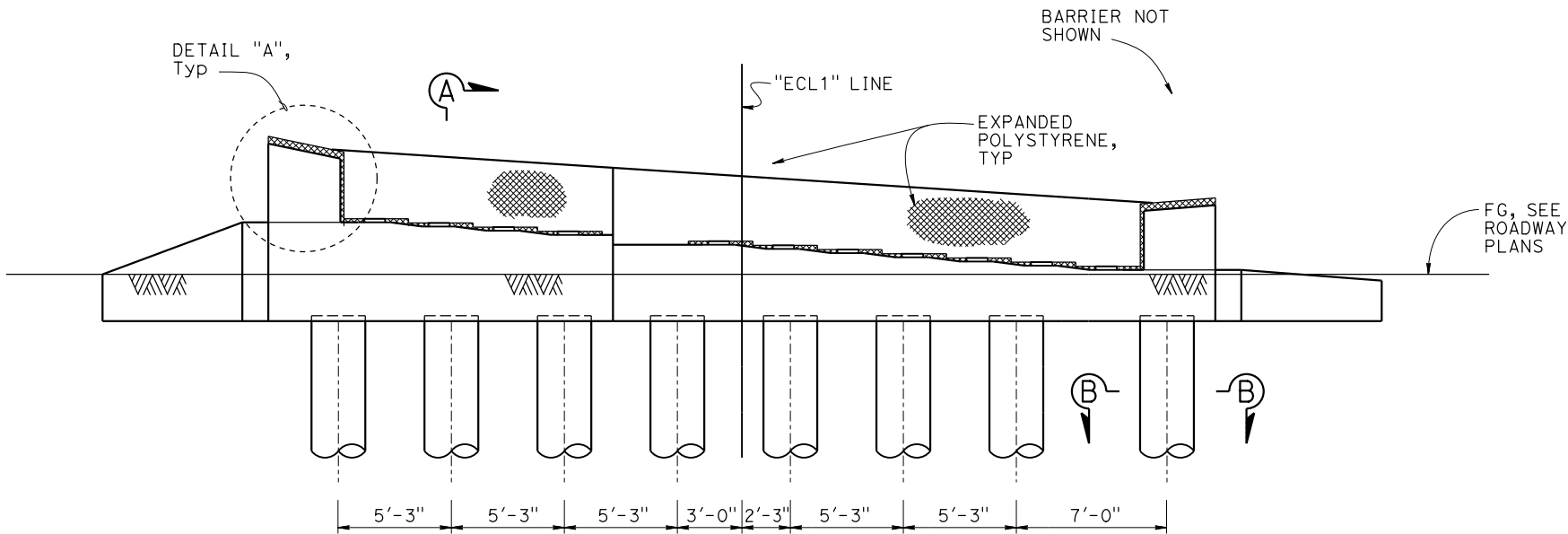
- NOTES:
- For "SECTION A-A" and "SECTION B-B", see "ABUTMENT DETAILS No. 1" sheet
  - For "DETAIL A", see "ABUTMENT DETAILS No. 2" sheet

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	KINGS CREEK BRIDGE (REPLACE)  ABUTMENT 1 LAYOUT					
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125						
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE 15.49						
DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-f-g01-101.dgn		TIME PLOTTED => 16:03 USERNAME => s136540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5-12-21		SHEET X	OF X



**ABUTMENT PLAN**

1/4" = 1'-0"



**ABUTMENT ELEVATION**

1/4" = 1'-0"

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED

DATE: 3-DEC-2021

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

No. 58386

Exp. 12-31-22

CIVIL

STATE OF CALIFORNIA

NOTES:

1. For "SECTION A-A" and "SECTION B-B", see "ABUTMENT DETAILS No. 1" sheet
2. For "DETAIL A", see "ABUTMENT DETAILS No. 2" sheet

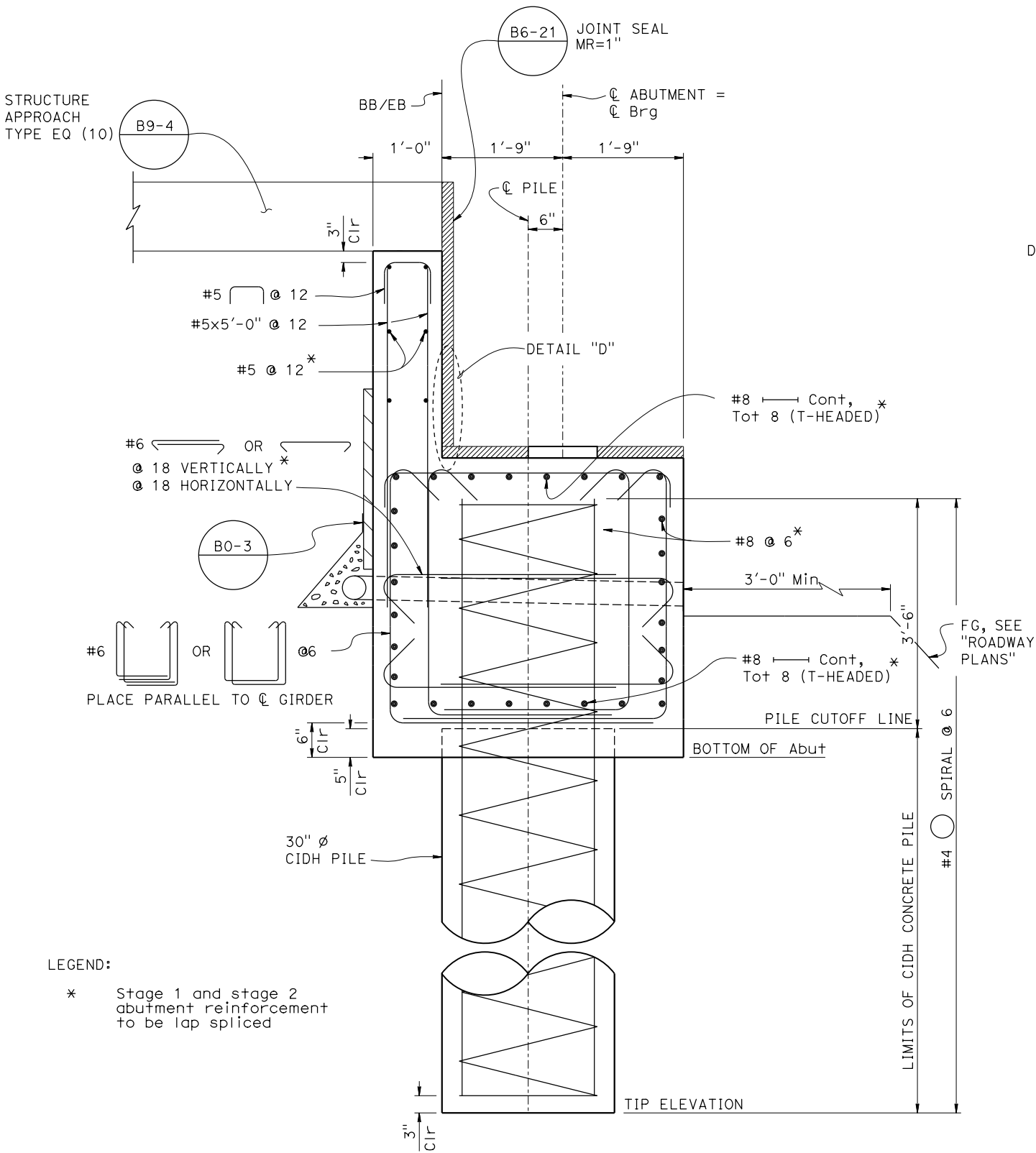
DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh
DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh
QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama

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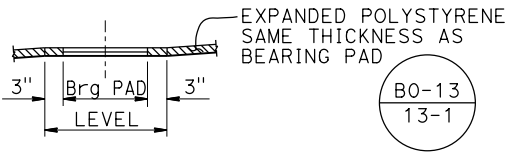
DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0125
POST MILE
15.49

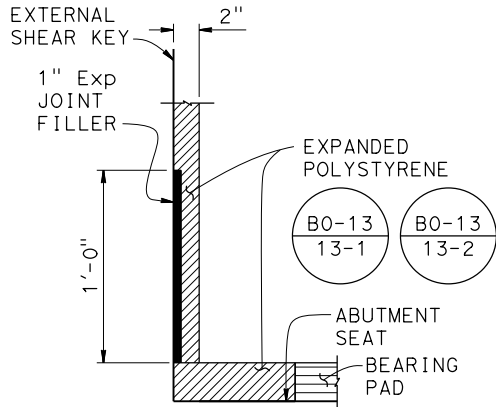
KINGS CREEK BRIDGE (REPLACE)  
ABUTMENT 2 LAYOUT



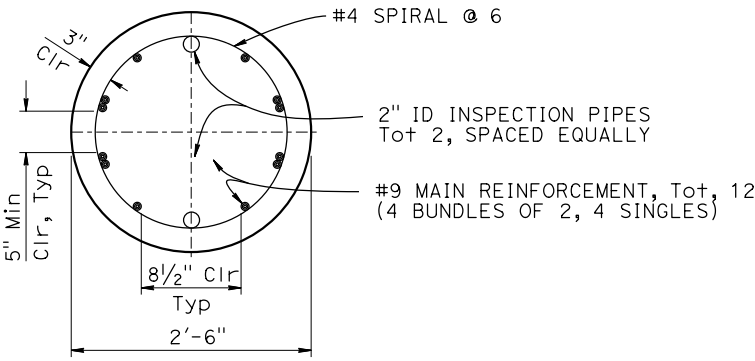
SECTION A-A  
1" = 1'-0"



BEARING PAD DETAIL  
NO SCALE  
Details typical at all bearing pads



DETAIL E  
NO SCALE  
For location of "DETAIL E", see "DETAIL A" on "ABUTMENT DETAILS No. 2" sheet



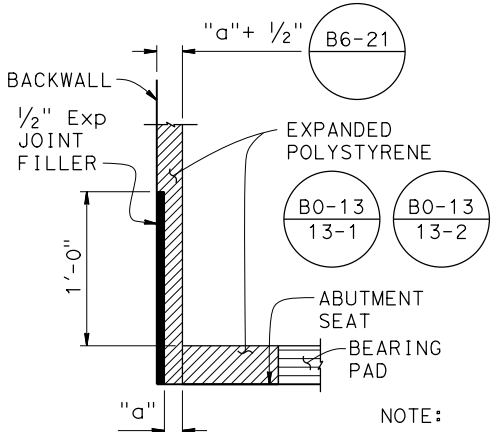
NOTES:  
All piles reinforcements to be Epoxy coated

SECTION B-B  
1" = 1'-0"

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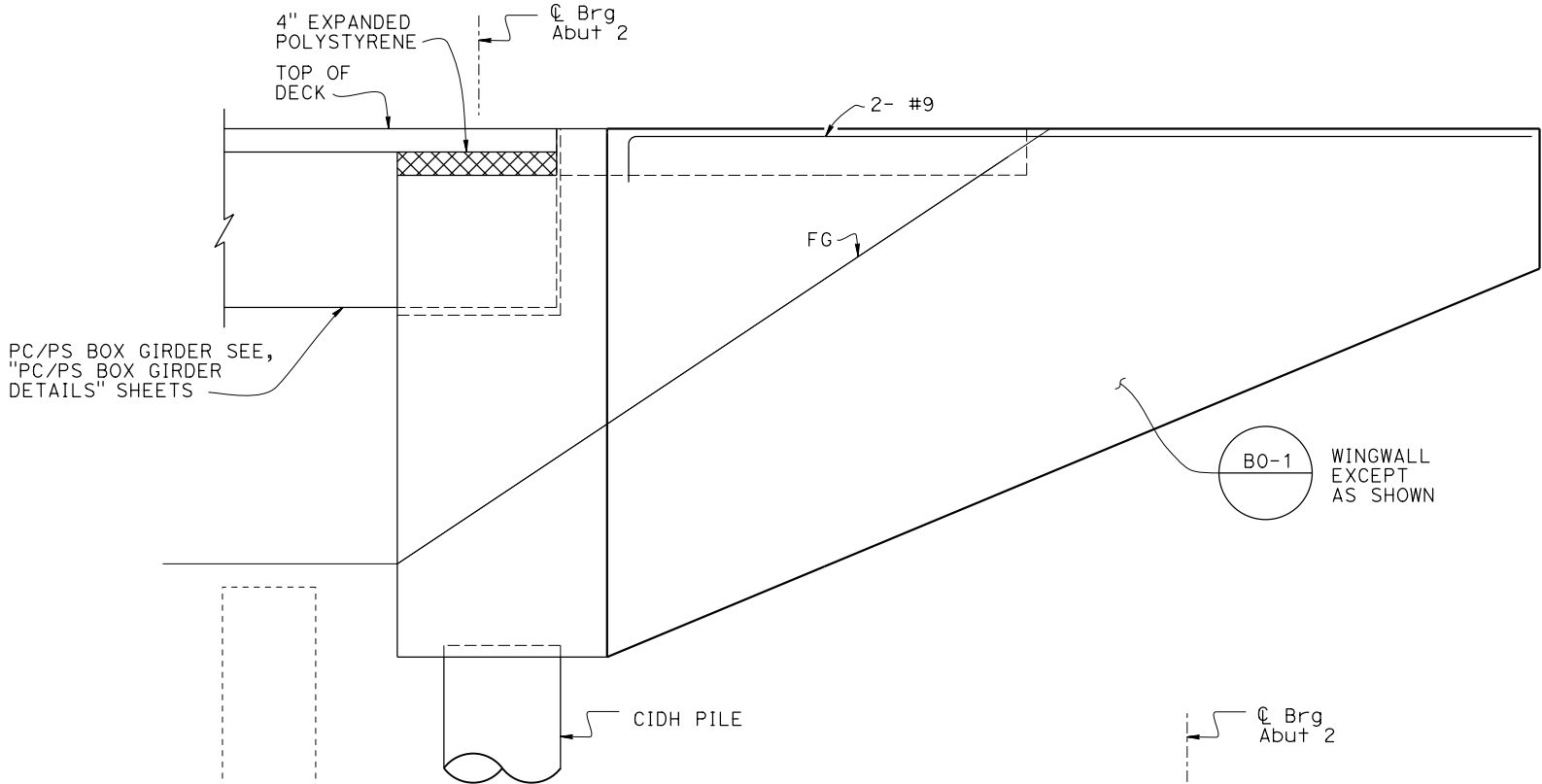
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER  
Joey M Aquino III  
No. 58386  
Exp. 12-31-22  
CIVIL  
STATE OF CALIFORNIA

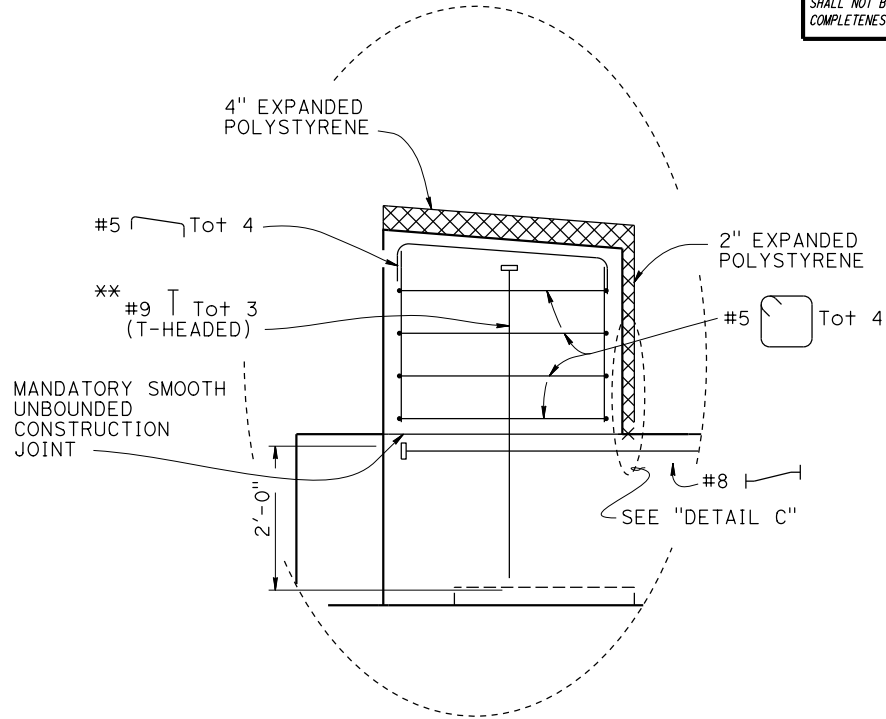


DETAIL D  
NO SCALE

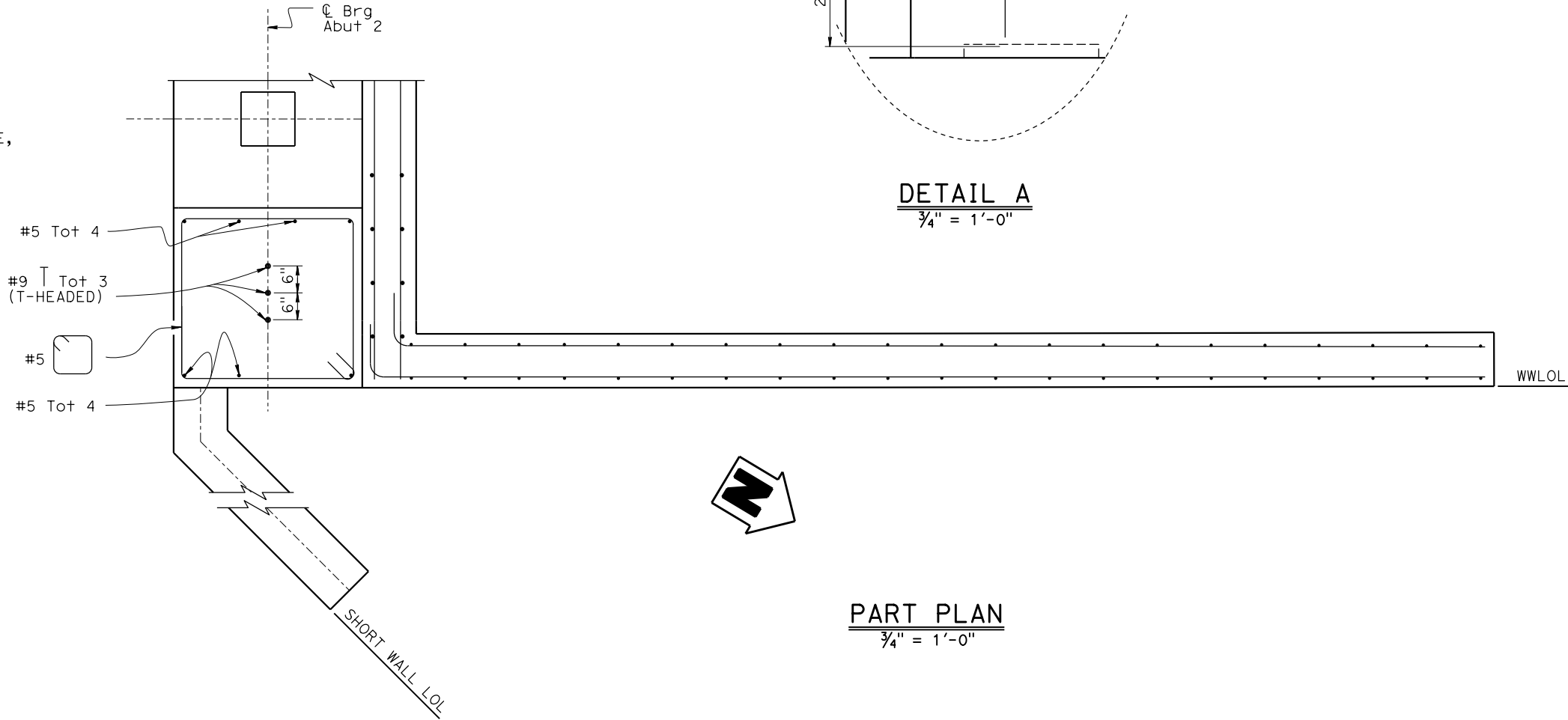
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	KINGS CREEK BRIDGE (REPLACE)																																																				
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125	ABUTMENT DETAILS No. 1																																																				
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE																																																					
						15.49																																																					
DATE PLOTTED ==> 3-DEC-2021 FILE ==> 36-0125-f-aat01.dgn				TIME PLOTTED ==> 16:03 USERNAME ==> s136540				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0				1				2				3				UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781				COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704				DISREGARD PRINTS BEARING EARLIER REVISION DATES				5-13-21												X				X			



WINGWALL ELEVATION  
1/2" = 1'-0"

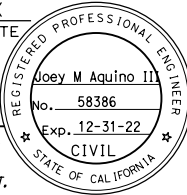


DETAIL A  
3/4" = 1'-0"



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REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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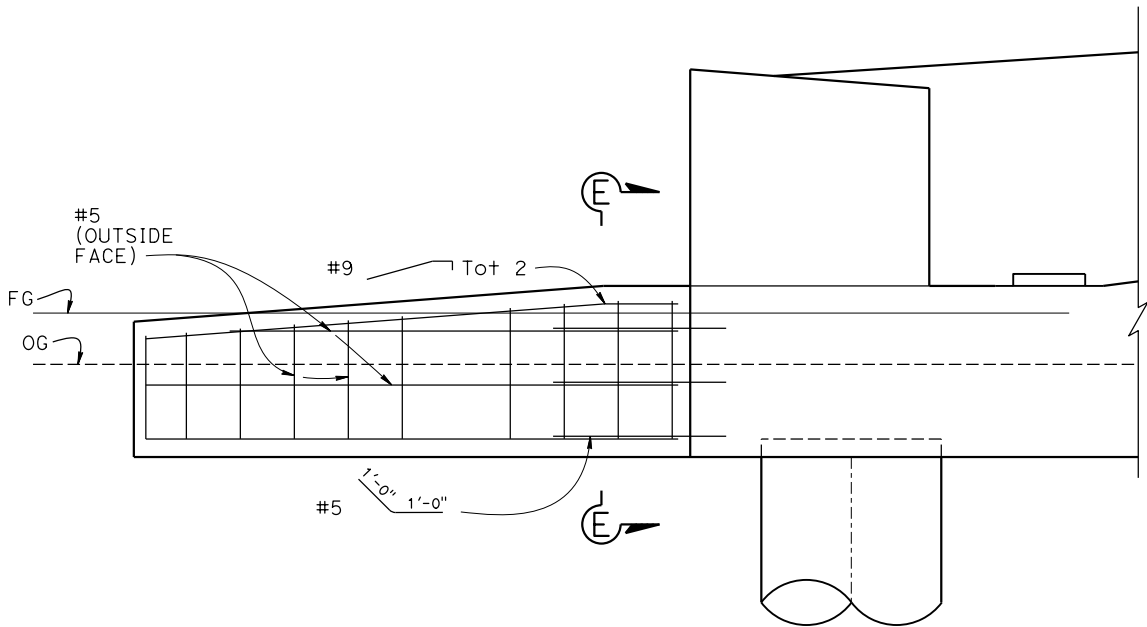
DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh
DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh
QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama

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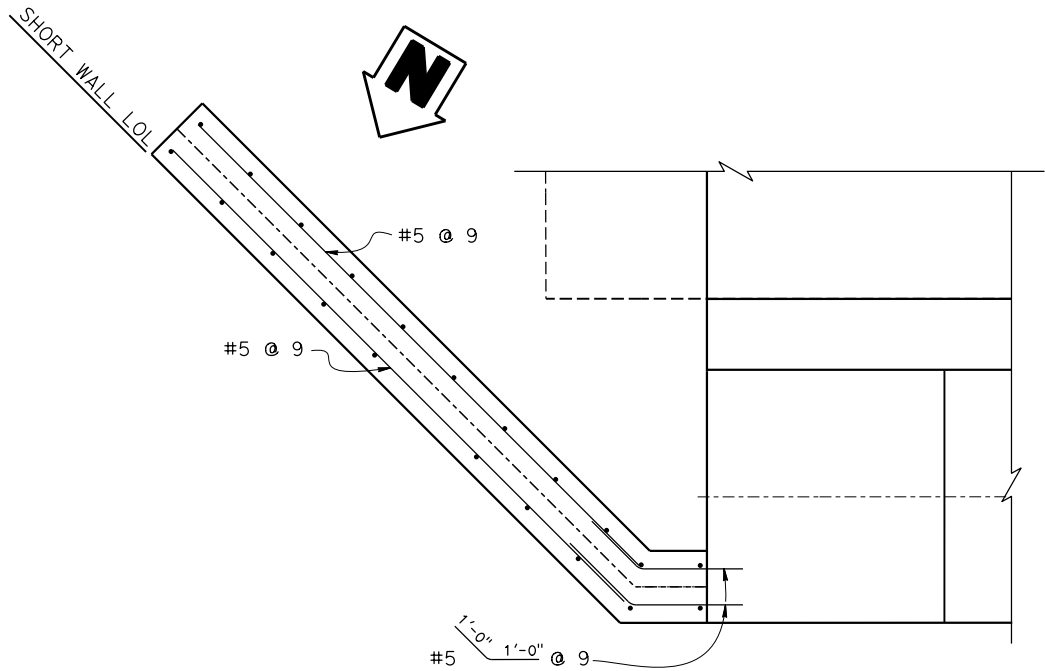
DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0125
POST MILE
15.49

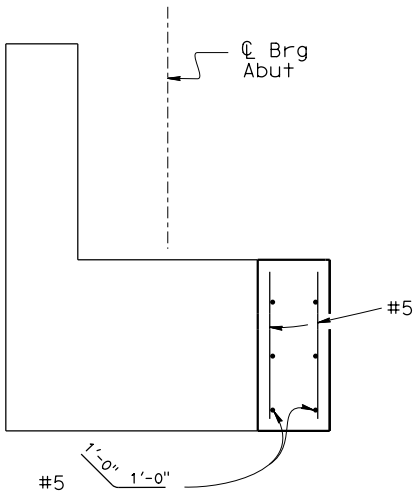
KINGS CREEK BRIDGE (REPLACE)  
ABUTMENT DETAILS No. 2



**SHORT WALL ELEVATION**  
 $\frac{3}{4}'' = 1'-0''$

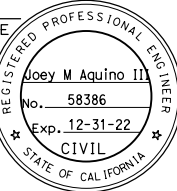


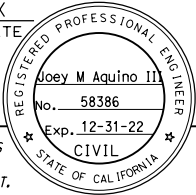
**SHORT WALL PLAN**  
 $\frac{3}{4}'' = 1'-0''$



**SECTION E-E**  
 $\frac{3}{4}'' = 1'-0''$

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FOR DESIGN STUDY  
  
PRINTED  
DATE: 3-DEC-2021  
  
Office of  
Structure Design  
STATE OF CALIFORNIA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE					
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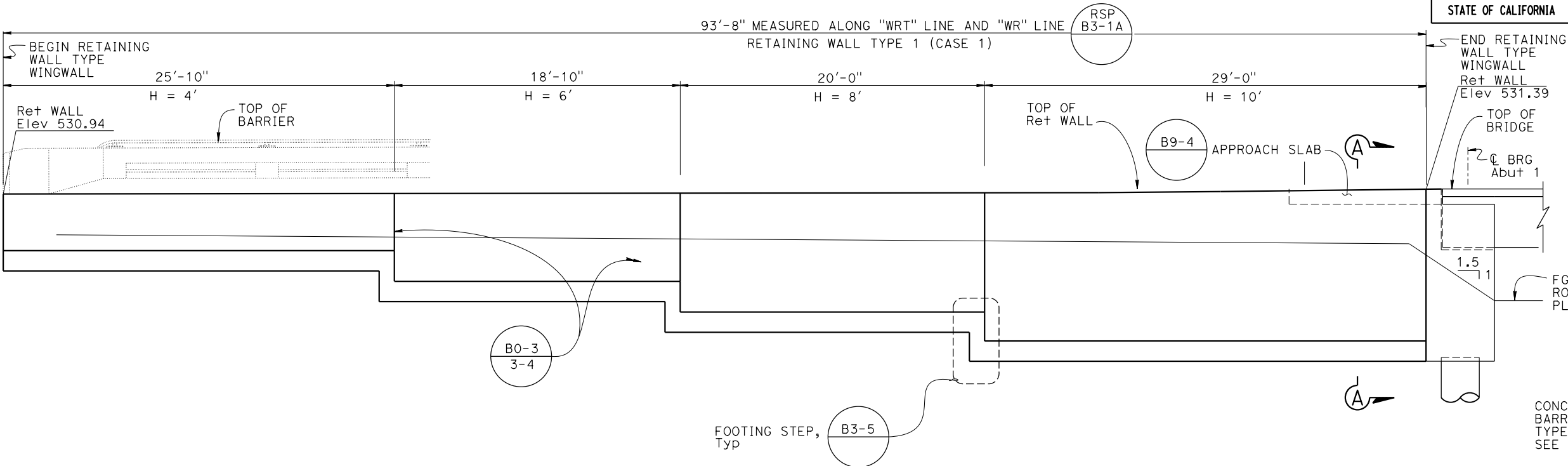
DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh
DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh
QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

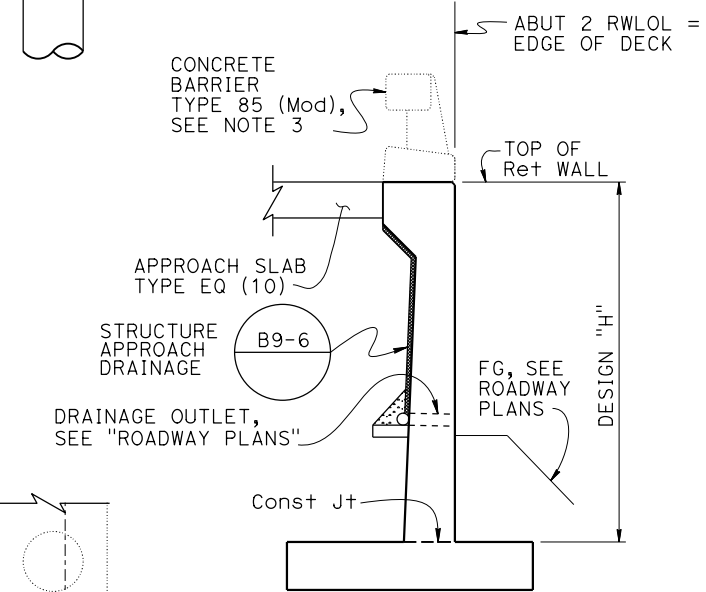
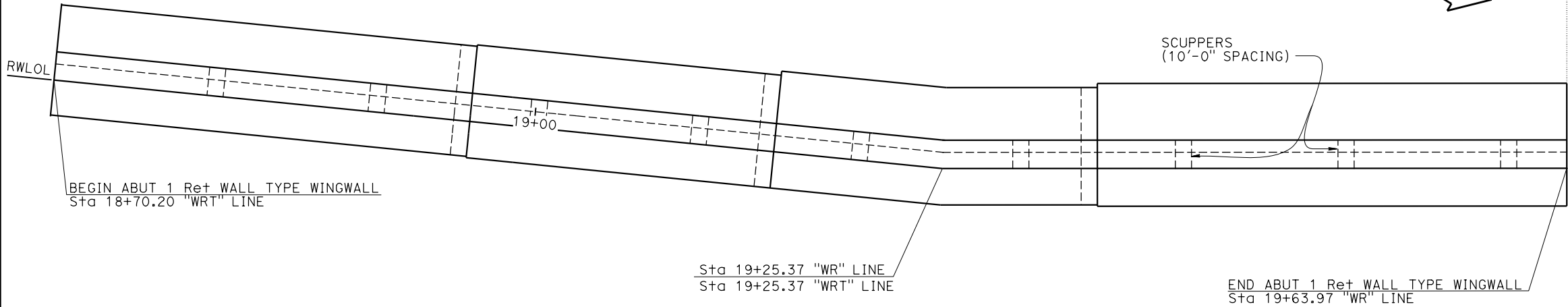
DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0125
POST MILE
15.49

KINGS CREEK BRIDGE (REPLACE)  
ABUTMENT DETAILS No. 3

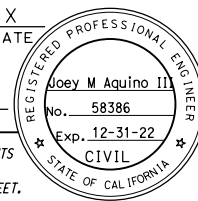


- NOTES:
- Retaining wall expansion joints, weakened planes and weep holes shall be placed per Standard Plan B0-3.
  - Waterstops at expansion joints shall be extended into concrete curb. For details and drainage notes not shown, see Standard Plan B3-5.
  - For barrier details, see "CONCRETE BARRIER TYPE 85 DETAILS No. 1, 2 and 3" sheets
  - For bottom of footing elevation, see "FOUNDATION PLAN" sheet

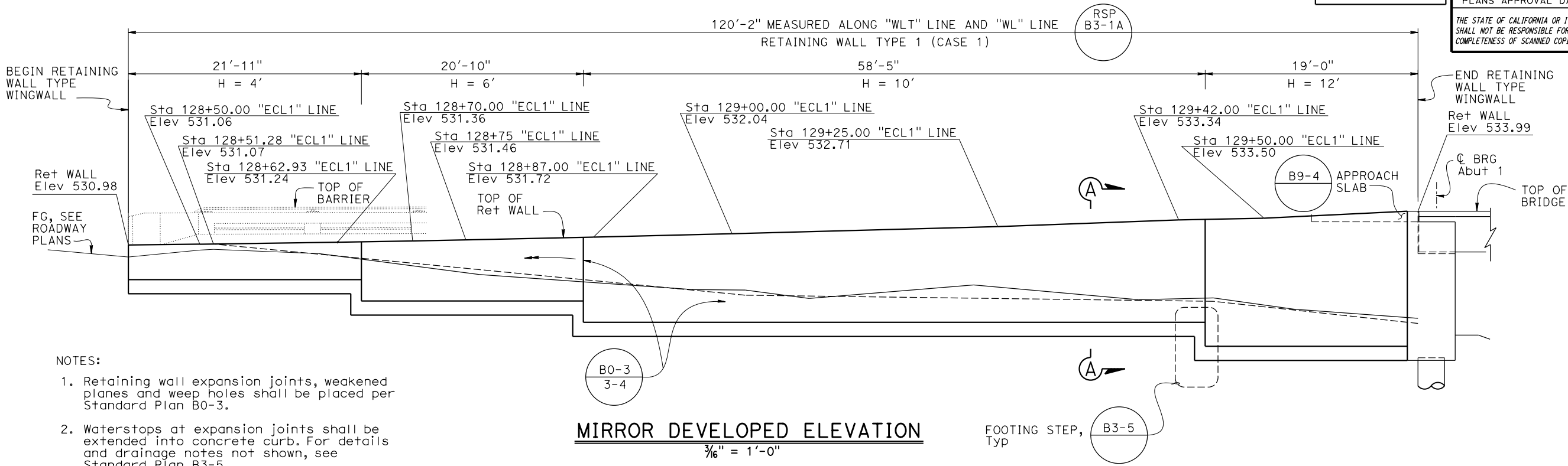


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STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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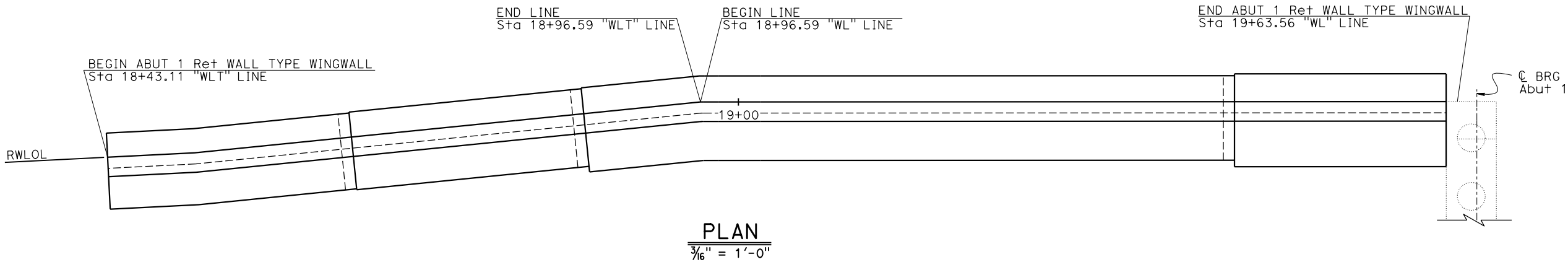


STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	KINGS CREEK BRIDGE (REPLACE)  ABUTMENT 1 RETAINING WALL TYPE WINGWALL LAYOUT NO. 1						
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125							
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE 15.49							
	DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-g-rwd+01.dgn					UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781		COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES		SHEET	OF
								8-2-21				X	X



NOTES:

- Retaining wall expansion joints, weakened planes and weep holes shall be placed per Standard Plan B0-3.
- Waterstops at expansion joints shall be extended into concrete curb. For details and drainage notes not shown, see Standard Plan B3-5.
- For barrier details, see "CONCRETE BARRIER TYPE 85 DETAILS No. 1 ,2 and 3" sheets
- For bottom of footing elevation, see "FOUNDATION PLAN" sheet

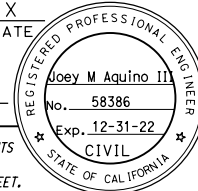


INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

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STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh
DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh
QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0125
POST MILE
15.49

KINGS CREEK BRIDGE (REPLACE)  
ABUTMENT 1 RETAINING WALL TYPE WINGWALL LAYOUT NO. 2

DATE: 3-DEC-2010  
Office of Structure Design  
STATE OF CALIFORNIA

CONCRETE BARRIER  
TYPE 85 (MOD), Typ

RSP B11-83 RSP B11-84 RSP B11-85

POLYESTER  
CONCRETE  
OVERLAY (1")

DRIP GROOVE, Typ  
B7-1

1'-0" Typ

LEVEL, Typ

3'-6" 3'-0" BOX GIRDER Tot 4 4'-0" CLOSURE POUR 3'-0" BOX GIRDER Tot 7 3'-6" Typ

6" 3'-0" 6"

6", Typ  
Min &  
VARIES

-6.5%

DECK DRAINS TYPE  
D-2 (Mod), Typ  
B7-6  
7-8

8" Typ

4'-0", Typ  
Min &  
VARIES

RSP B11-83

**TYPICAL SECTION**  
1/2" = 1'-0"

**TYPICAL SECTION**  
 $\frac{1}{2}'' = 1'-0''$

4'-0, 1 MIN VAR

RSP B11-83

#4 W/ #5, Typ @ 12 BUNDLE

2 - #8 PER GIRDER

#5 Tot 5 PER BAY

2" CLR

STAGE 2 TO BE LAP SPliced WITH STAGE 1 TRANSVERSE BARS

#7 Tot 10 Cont

#5 @ 6 X 1'-0" ANCHORED INTO THE DECK AND LAP SPliced

SIPMF

DECK TRANSVERSE REINFORCEMENTS #5 @ 6

#5 @ 18

#5 Cont, Typ

PRECAST BOX REINFORCEMENT

Girder reinforcement see

- PART TYPICAL SECTION  
1" = 1'-0"

STATE OF  
**CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

BRIDGE No.
36-0125
POST MILE
15.49

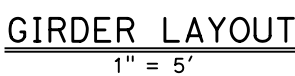
## TYPICAL SECTION

REVISION DATES				SHEET	OF
5-20-21				X	X

NOTES:

1. For "SECTION A-A" and "SECTION B-B" see "PC/PS BOX GIRDER DETAILS No. 3" sheet
2. For "PRE-TENSIONING NOTES" see, "PC/PS BOX GIRDER DETAILS No. 1" sheet

1. Place Splice diaphragms
2. Post Tensioning Girders
3. Girders lifted in place

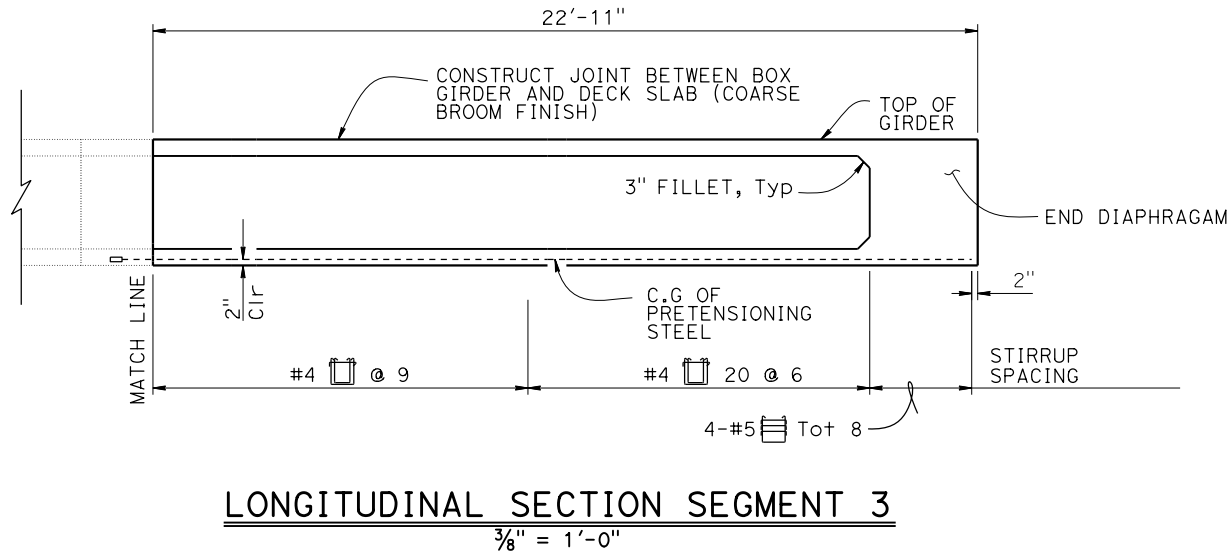
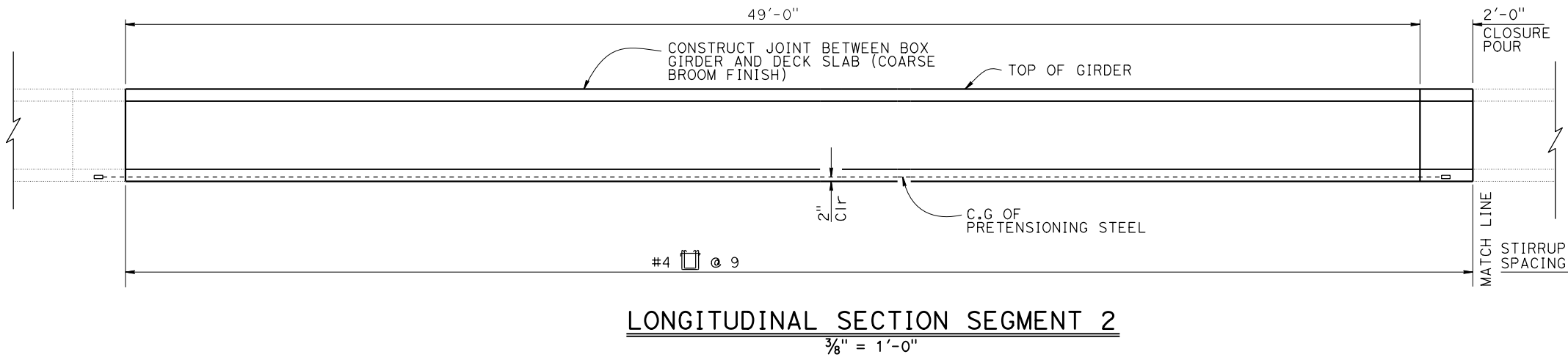
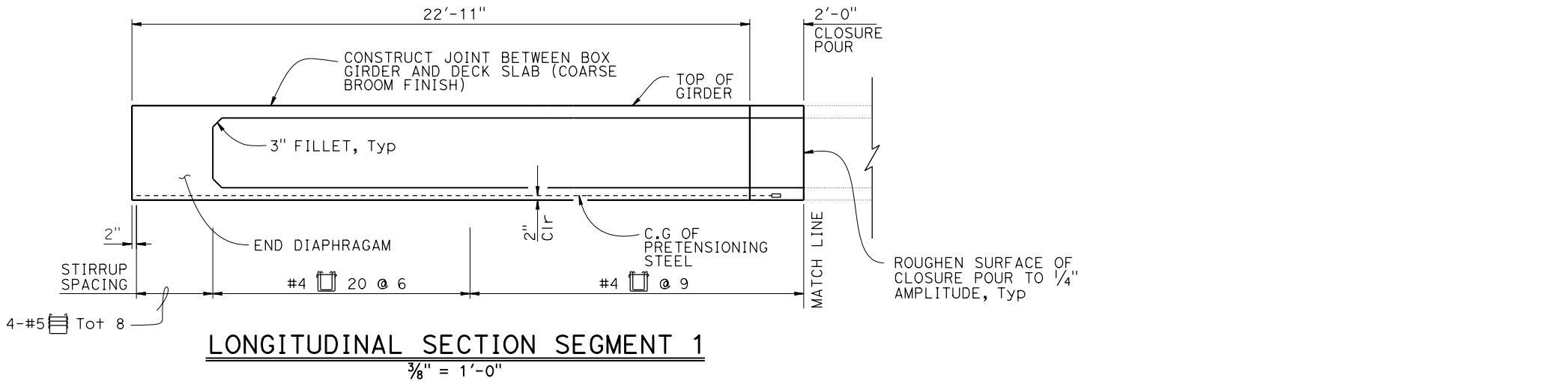


	Deck DL (in)	Rail DL (in)
Girder	2.0	0.3

NOTE: Cable path is parabolic between points shown

Total Number of Girders	Pjack (Kips)	A <sub>S</sub> Min (in <sup>2</sup> )	Splice Concrete Strength (ksi)		Precast Girder Concrete Strength (ksi)		Anchor Set (in)
			f' <sub>c</sub> i	f' <sub>c</sub>	f' <sub>c</sub> i	f' <sub>c</sub>	
11	791	4.34	5.0	6.0	8.0	8.0	0.25

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	<div style="text-align: center;"> <b>STATE OF CALIFORNIA</b>  <b>DEPARTMENT OF TRANSPORTATION</b> </div>	<div style="text-align: center;"> <b>DIVISION OF ENGINEERING SERVICES</b>  <b>BRIDGE DESIGN</b>  <b>BRANCH 3</b> </div>	BRIDGE No.	<div style="text-align: center;"> <b>KINGS CREEK BRIDGE (REPLACE)</b>  <b>PC/PS BOX GIRDER LAYOUT</b> </div>						
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125							
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE	<div style="text-align: center;"> <b>REVISION DATES</b> </div>	<div style="text-align: center;"> <b>SHEET</b> </div>	<div style="text-align: center;"> <b>OF</b> </div>				
	DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-1-g_10.dgn					TIME PLOTTED => 16:04 USERNAME => s136540				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			
				UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781		COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704		DISREGARD PRINTS BEARING EARLIER REVISION DATES			6-29-21	X	X



INCOMPLETE PLAN FOR DESIGN STUDY

PRINTED DATE: 3-DEC-2021

Office of Structure Design

STATE OF CALIFORNIA

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REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

No. 58386

Exp. 12-31-22

CIVIL

STATE OF CALIFORNIA

PRE-TENSIONING NOTES

270 ksi Low Relaxation Strands

Girder Segment	Total Number of Segment	Pjack (Kips)	A <sub>s</sub> Min (in <sup>2</sup> )	Concrete Strength (ksi)
				f' <sub>ci</sub>
1 , 2 , 3	33	88	0.43	8.0

Pjack = Prestressing Force per Girder Segment.  
A<sub>s</sub> min = Minimum area of prestressing steel.  
f'<sub>ci</sub> is at time of stressing.

NOTE:  
For POST TENSIONING NOTES see, "PC/PS BOX GIRDER LAYOUT" sheet

PRESTRESSING NOTES:

- JACKING FORCE (P): The jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel.
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel.
- CONCRETE STRENGTH: f'<sub>ci</sub> is at time of initial stressing  
f'<sub>c</sub> is at 28 days
- Deflection components are Informational - to be used in setting screed line elevations
- Screed line elevations for deck concrete will be determined by the Engineer.
- Prestressing strand shall be 270 ksi low relaxation
- A<sub>s</sub>, Min is the minimum area required of prestressing steel

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	KINGS CREEK BRIDGE (REPLACE) PC/PS BOX GIRDER DETAILS No. 1				
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125					
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE 15.49					
DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-1-gd+01.dgn		TIME PLOTTED => 16:04 USERNAME => s136540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET X	OF X

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FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

X  
DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

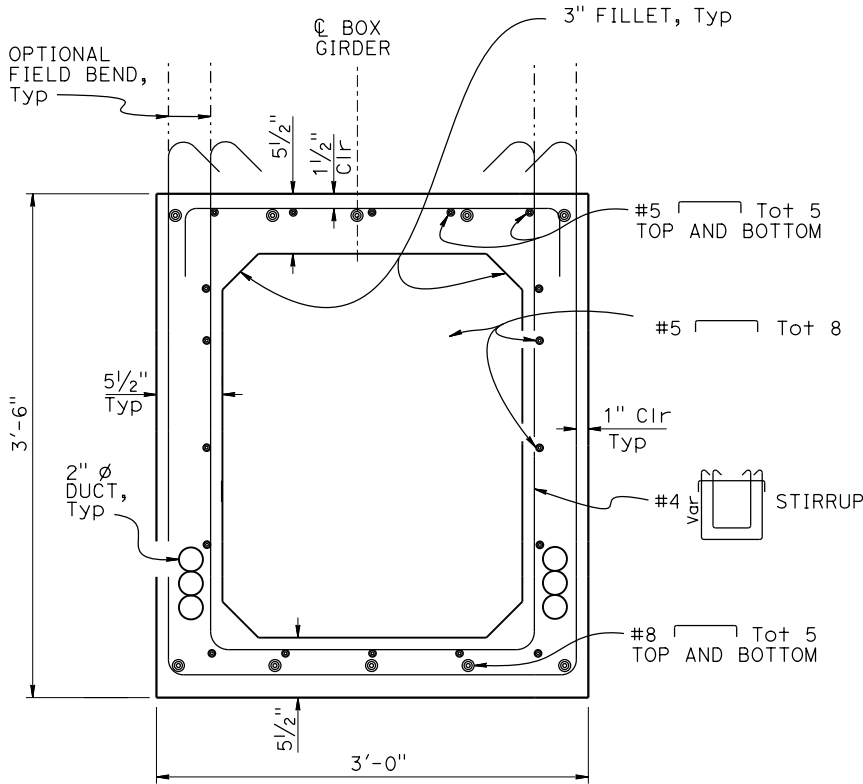
No. 58386

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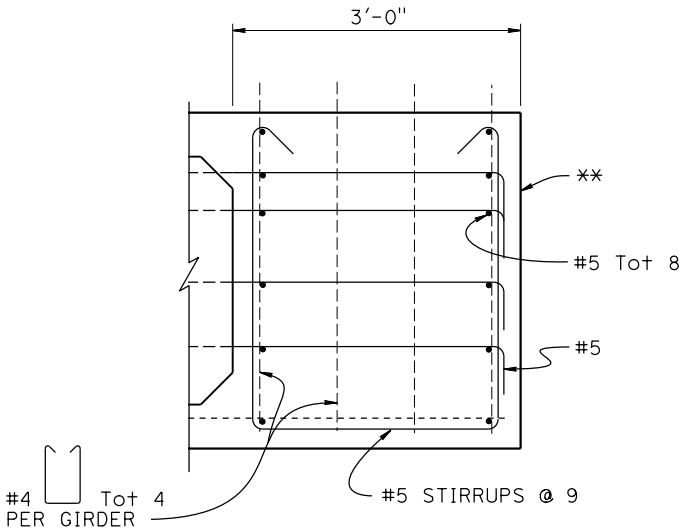


INTERIOR/EXTERIOR PC/PS BOX GIRDER

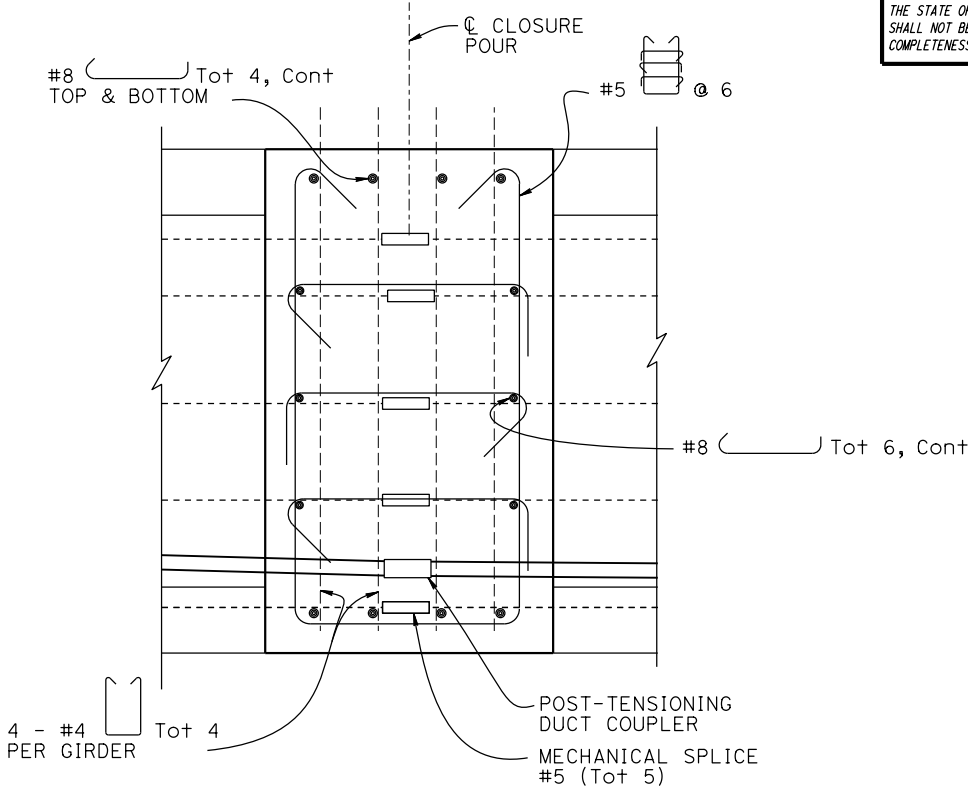
1 1/2" = 1'-0"

- NOTES:
1. Adjust steel spacing to avoid conflict with P/S strands
  2. Adjust tail length of stirrups to match deck cross slope and post tensioning ducts
  3. Not all Pre-stressed ducts are shown

- NOTES:
- 1. Adjust steel spacing to avoid conflict with P/S strands
  - 2. Adjust tail length of stirrups to match deck cross slope and post tensioning ducts
  - 3. For location of "SECTION A-A" and "SECTION B-B" see "BOX GIRDER LAYOUT" sheet
  - 4. All reinforcements in splice region to be mechanically spliced
- \*\* Roughen surface of keyway and embedded surfaces of BOX GIRDER



SECTION A-A  
END DIAPHRAGM @ ABUTMENT  
1" = 1'-0"



SECTION B-B  
CLOSURE POUR  
1 1/2" = 1'-0"

INCOMPLETE PLAN  
FOR DESIGN STUDY

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NOTE:

For "SECTION A-A" and "SECTION B-B",  
see "BRIDGE REMOVAL DETAILS No. 2"

INCOMPLETE PLAN  
FOR DESIGN STUDY

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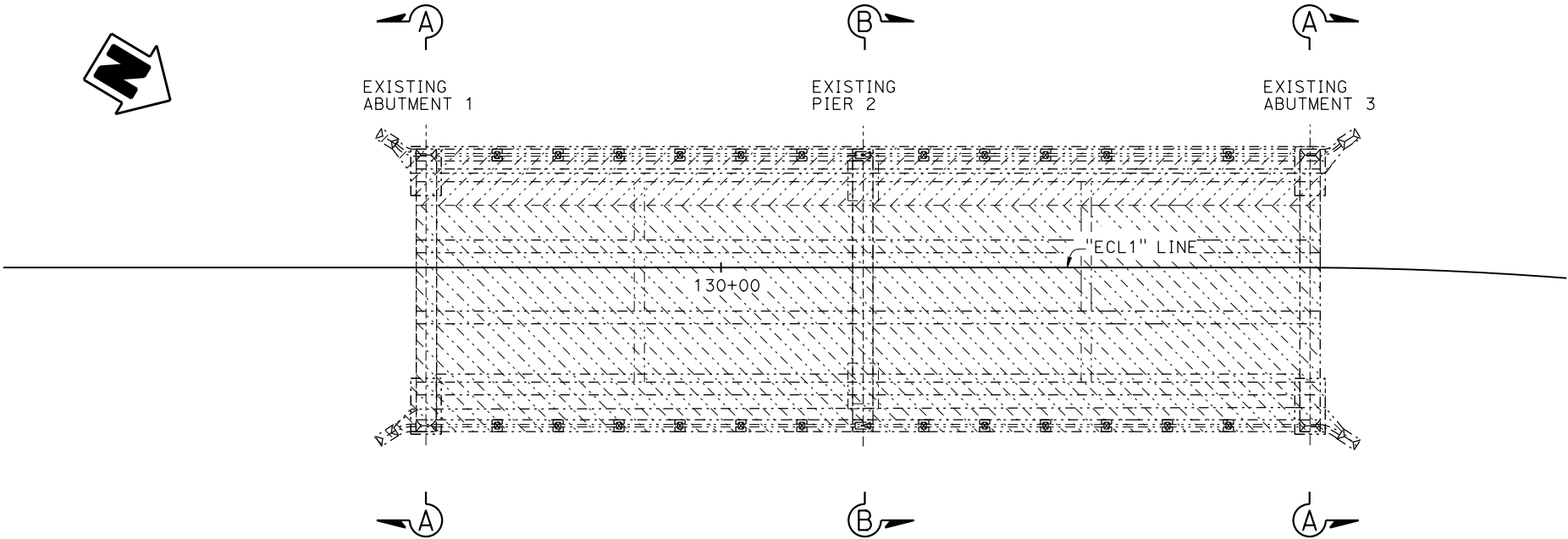
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PLAN  
1/8" = 1'-0"

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

LEGEND:

- Existing Structure
- Limits of stage 1 Bridge Removal
- Limits of stage 2 Bridge Removal

DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh
DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh
QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0125
POST MILE
15.49

KINGS CREEK BRIDGE (REPLACE)  
BRIDGE REMOVAL DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET  
(ENGLISH) (REVISION 3/10/2021)

DATE PLOTTED => 3-DEC-2021  
FILE => 36-0125-o-remdt01.dgn

TIME PLOTTED => 16:04  
USERNAME => s136540

ORIGINAL SCALE  
IN INCHES FOR  
REDUCED PLANS

0 1 2 3

UNIT: 3578  
PROJECT NUMBER & PHASE: 05160000781

COUNTY/ROUTE: Scr/9  
CONTRACT No.: 05-1H4704

DISREGARD PRINTS BEARING  
EARLIER REVISION DATES

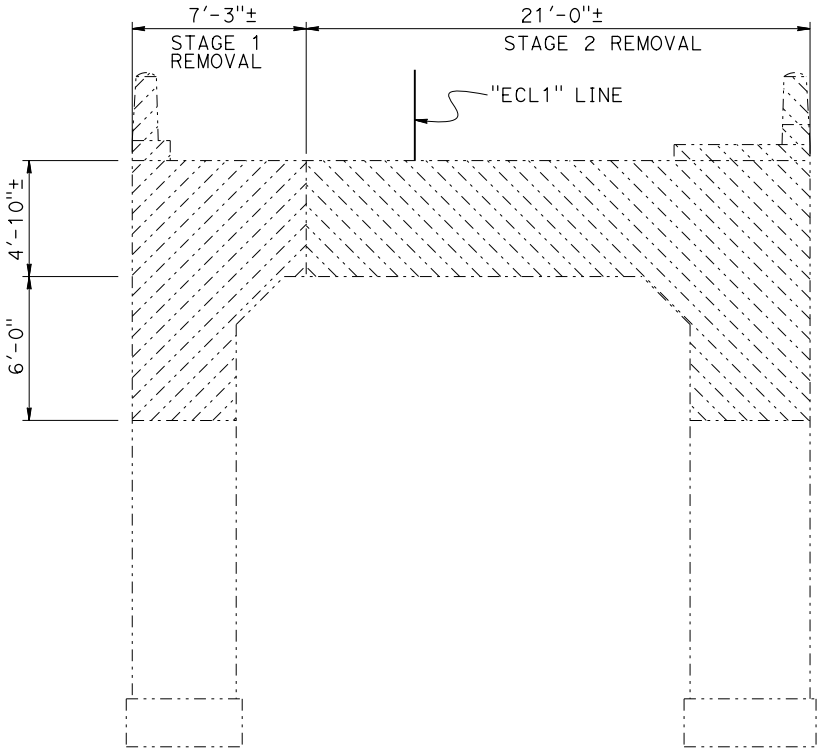
REVISION DATES				SHEET	OF
6-7-21				X	X

INCOMPLETE PLAN  
FOR DESIGN STUDY

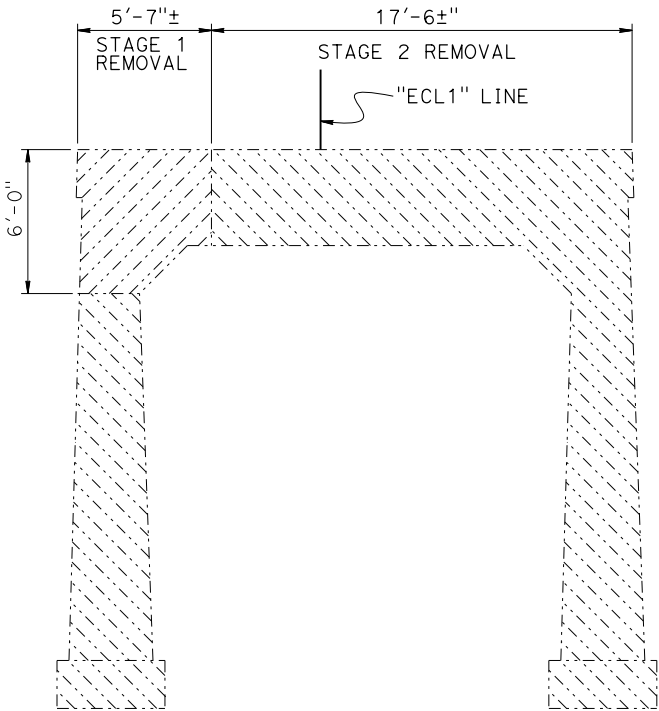
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REGISTERED CIVIL ENGINEER			X DATE		
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**SECTION A-A**  
1/4" = 1'-0"



**SECTION B-B**  
1/4" = 1'-0"

- LEGEND:
- Existing Structure
  - //// Limits of stage 1 Bridge Removal
  - \\\\ Limits of stage 2 Bridge Removal

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

NOTE:  
Entire superstructure will be removed

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>KINGS CREEK BRIDGE (REPLACE)</b> <b>BRIDGE REMOVAL DETAILS No. 2</b>								
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125									
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE 15.49									
DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-o-remdt02.dgn		TIME PLOTTED => 16:04 USERNAME => s136540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781		COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 6-7-21		SHEET X	OF X

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REGISTERED PROFESSIONAL ENGINEER

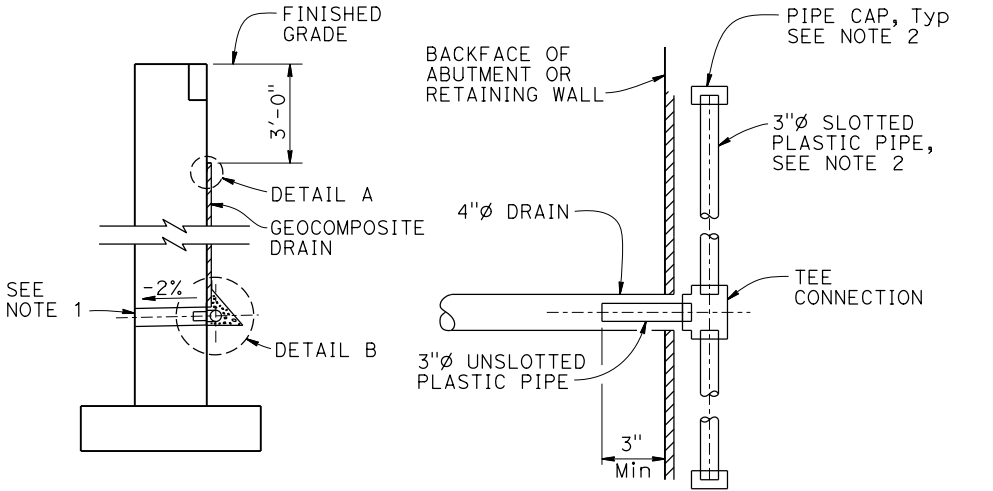
Joey M Aquino III

No. 58386

Exp. 12-31-22

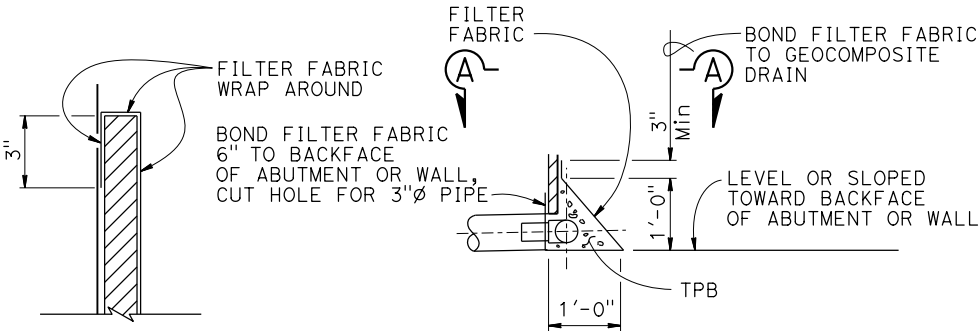
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WALL SECTION

SECTION A-A



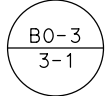
DETAIL A

DETAIL B

NOTES:

- 4"Ø drains at intermediate sag points and 25' maximum center to center (9'-0" C-C for Type 3 and 9'-3" C-C for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4"Ø plastic pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3"± above finished grade.
- Geocomposite drain, treated permeable base material and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4"Ø drain.
- Connect the low end of plastic pipe to the main outlet pipe as applicable.

ALTERNATIVE TO BRIDGE DETAIL



WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL

NO SCALE

	DESIGN	BY Quang Nguyen	CHECKED Alireza Yazdani Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	KINGS CREEK BRIDGE (REPLACE) STRUCTURE APPROACH DRAINAGE DETAILS																																
	DETAILS	BY Shadi Motalebi	CHECKED Alireza Yazdani Motlagh			36-0125																																	
	QUANTITIES	BY Joey Aquino	CHECKED Jacqueline Koyama			POST MILE 15.49																																	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)				DATE PLOTTED => 3-DEC-2021 FILE => 36-0125-s-sadd.dgn				TIME PLOTTED => 16:04 USERNAME => s136540				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0123456789				UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781				COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704				DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES				SHEET		OF	
																												7-1-21						X		X			

INCOMPLETE PLAN  
FOR DESIGN STUDY

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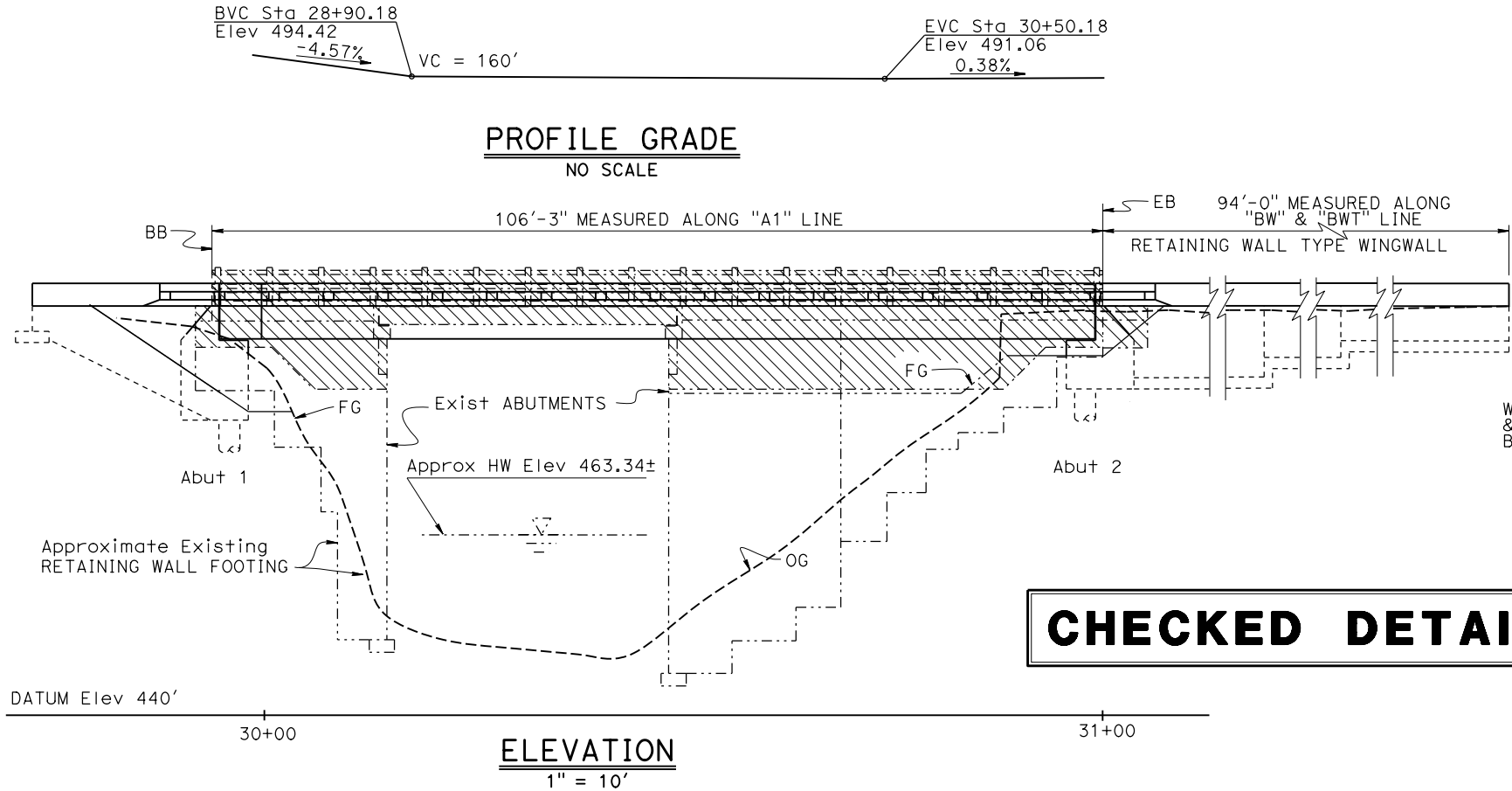
Joey M Aquino III

No. 58386

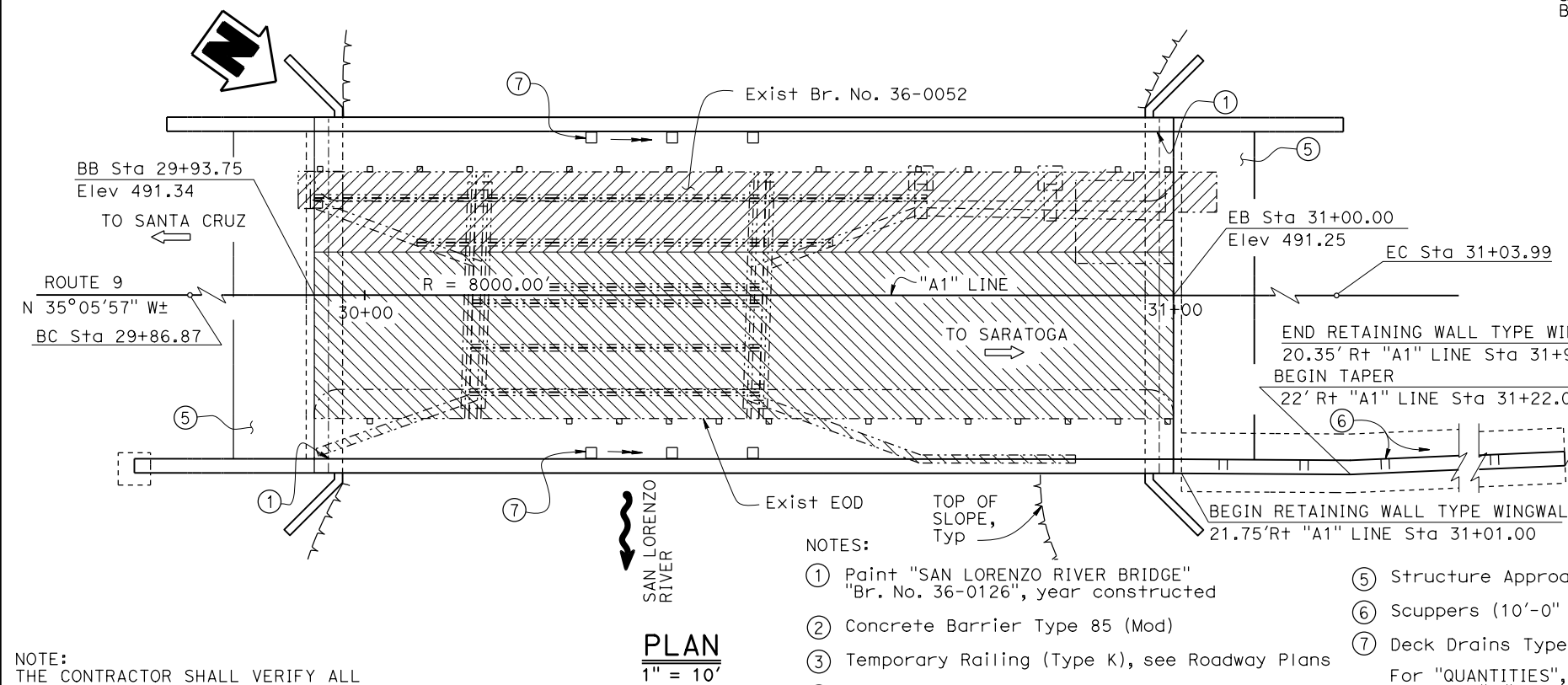
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**CHECKED DETAILS**

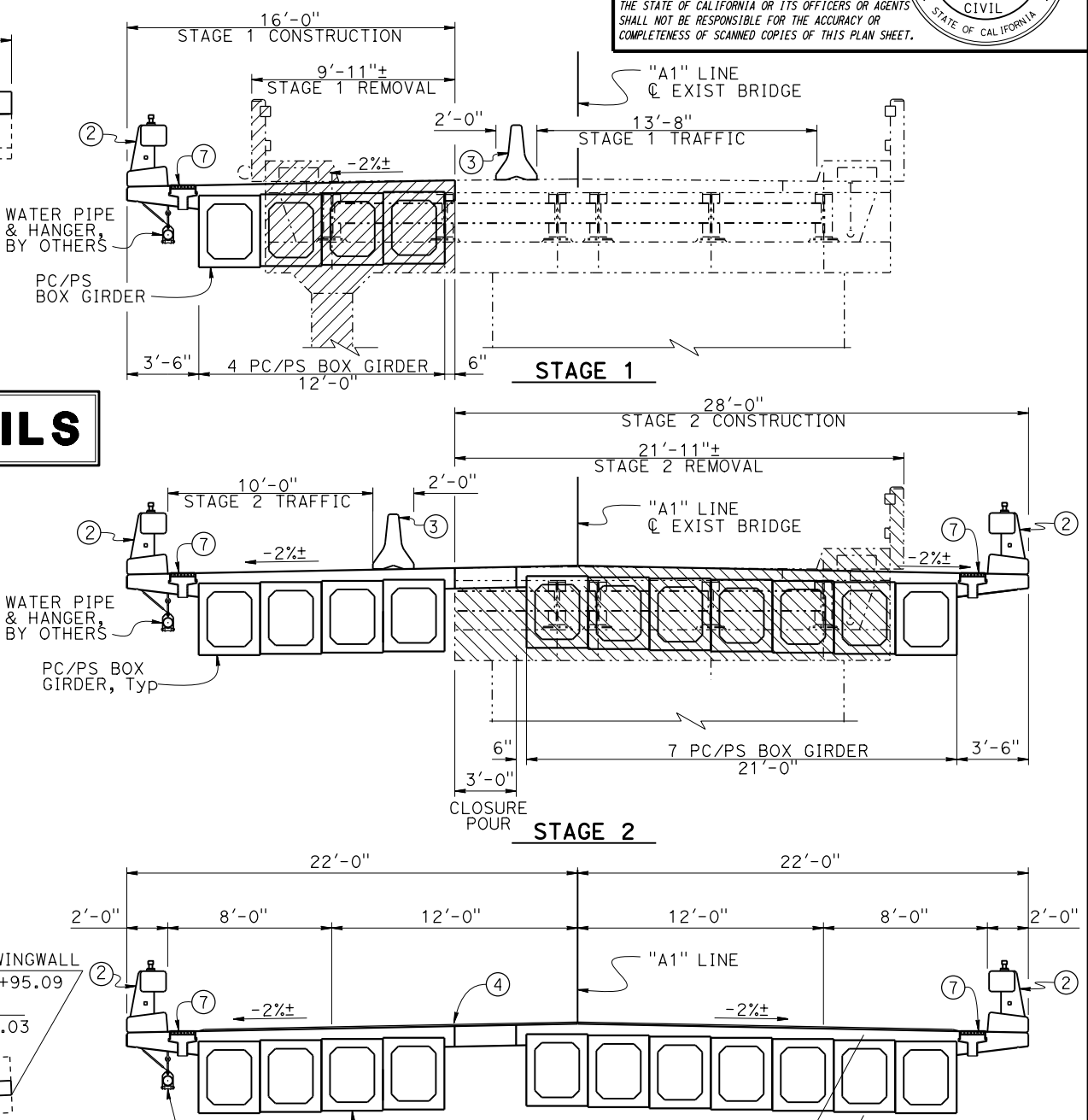


NOTE:  
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CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

NOTES:

- ① Paint "SAN LORENZO RIVER BRIDGE"  
"Br. No. 36-0126", year constructed
- ② Concrete Barrier Type 85 (Mod)
- ③ Temporary Railing (Type K), see Roadway Plans
- ④ Polyester Concrete Overlay (1")
- ⑤ Structure Approach Type EQ (10)
- ⑥ Scuppers (10'-0" Spacing)
- ⑦ Deck Drains Type D-2 (Mod)

For "QUANTITIES", "GENERAL NOTES", "INDEX  
TO PLANS", "STANDARD PLANS" and "PILE DATA  
TABLE", see "INDEX TO PLANS" sheet



LEGEND:

- Existing structure (Br#36-0052)
- ▨ Limits of stage 1 Bridge removal
- ▨ Limits of stage 2 Bridge removal
- \* Polyester concrete overlay thickness  
not included

X BRANCH CHIEF	DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING HL93 W/"LOW-BOY" & PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)										
	DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman	LAYOUT	BY Shadi Motalebi			POST MILE											
	QUANTITIES	BY Joey Aquino	CHECKED Justin Woody	SPECIFICATIONS	BY X			PLANS AND SPECS COMPARED X		13.61									
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 3/10/2021)						DATE PLOTTED => 3-DEC-2021 FILE => 36-0126-a-gp01.dgn	TIME PLOTTED => 15:55 USERNAME => s136540	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF	
														5-6-21				1	X

GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:  
AASHTO LRFD Bridge Design Specifications,  
2017 8th edition with California Amendments,  
preface dated April 2019

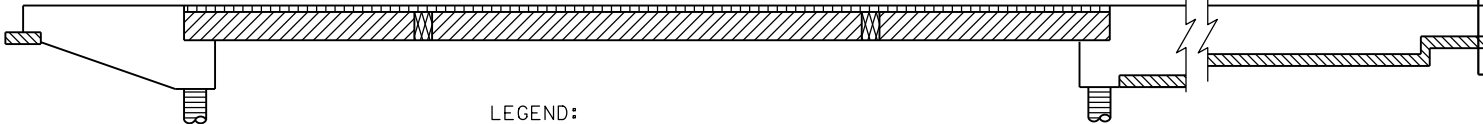
SEISMIC DESIGN:  
Caltrans Seismic Design Criteria (SDC),  
Version 2.0 dated April 2019  
See SITE SPECIFIC ARS CURVE

DEAD LOAD:  
Includes 35 psf for future wearing surface

LIVE LOADING:  
HL93 and permit design load  
Permit Load not allowed during Stage 1  
construction

REINFORCED CONCRETE:  
fy = 60 ksi  
f'c = 3.6 ksi  
n = 8

PRESTRESSING STEEL:  
See "PRESTRESSING NOTES" on "PC/PS BOX  
GIRDER DETAILS No. 1" sheet



LEGEND:

- Structural Concrete, Bridge Polymer Fiber (4,000 psi at 28 days)
- PC/PS Box Girder, see "PC/PS BOX GIRDER LAYOUT" sheet
- Cast in Drill Hole Concrete Pile
- Structural Concrete, Bridge
- Structural Concrete, Bridge, Closure Pour, see "PC/PS BOX GIRDER DETAILS NO. 1" sheet
- Structural Concrete, Bridge Footing

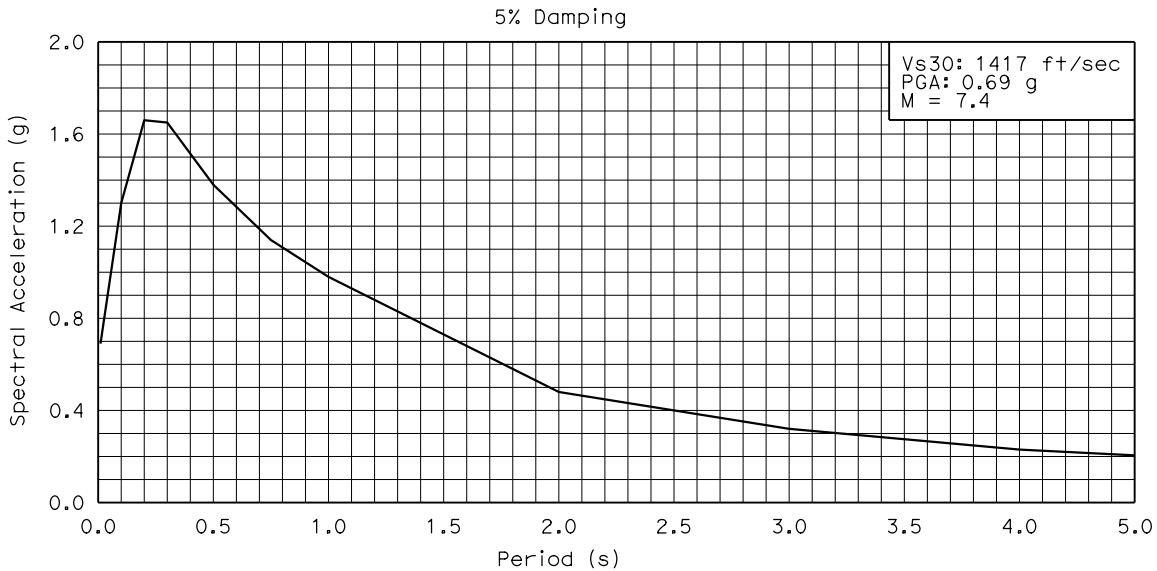
CONCRETE STRENGTH AND TYPE LIMITS

No Scale

PILE DATA TABLE					
Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevations (ft)	Specified Tip Elevation (ft)
		Compression	Tension		
Abutment 1	30" Ø CIDH	420	0	464.5(a) 474.0(c)	462.5
Abutment 2	30" Ø CIDH	405	0	456.5(a) 459.0(c)	454.5

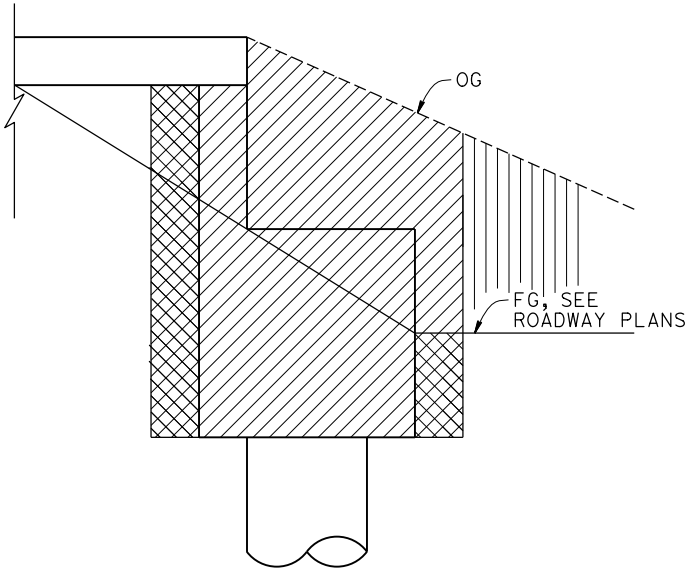
NOTES:

- The design tip elevations are controlled by: (a) Compression strength Limit State,
- No end bearing resistance, only skin resistance contributes to pile capacity
- Skin resistance of the top 15 feet layer (from existing finish grade) is neglected



SITE SPECIFIC ARS CURVE

No Scale



LEGEND:

- Structure Excavation
- Structure Backfill
- Roadway Excavation

LIMITS OF EXCAVATION AND BACKFILL

No Scale

INCOMPLETE PLAN  
FOR DESIGN STUDY  
  
PRINTED  
DATE: 3-DEC-2021  
  
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Structure Design  
STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

No. 58386

Exp. 12-31-22

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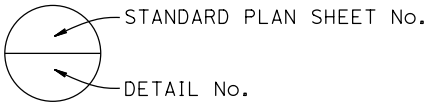
STATE OF CALIFORNIA

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS No. 1
8	ABUTMENT DETAILS No. 2
9	ABUTMENT DETAILS No. 3
10	RETAINING WALL LAYOUT
11	TYPICAL SECTION
12	PC/PS BOX GIRDER LAYOUT
13	PC/PS BOX GIRDER DETAILS No. 1
14	PC/PS BOX GIRDER DETAILS No. 2
15	PC/PS BOX GIRDER DETAILS No. 3
16	BRIDGE REMOVAL DETAILS No. 1
17	BRIDGE REMOVAL DETAILS No. 2
18	LOG OF TEST BORINGS No. 1 OF 3
19	LOG OF TEST BORINGS No. 2 OF 3
20	LOG OF TEST BORINGS No. 3 OF 3

STANDARD PLANS DATED 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B3-1A RETAINING WALL TYPE 1 (CASE 1)
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B7-6 DECK DRAINS - TYPES D-1 AND D-2
- B9-4 STRUCTURE APPROACH TYPE EQ (10)
- RSP B11-83 CONCRETE BARRIER TYPE 85 DETAILS No. 1
- RSP B11-84 CONCRETE BARRIER TYPE 85 DETAILS No. 2
- RSP B11-85 CONCRETE BARRIER TYPE 85 DETAILS No. 3



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)				
	DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman			36-0126					
	QUANTITIES	BY Joey Aquino	CHECKED Justin Woody			POST MILE					
						13.61	INDEX TO PLANS				
DATE PLOTTED => 3-DEC-2021 FILE => 36-0126-a-1tp.dgn		TIME PLOTTED => 15:55 USERNAME => s136540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
									5-14-21	2	X

HYDROLOGIC SUMMARY			
Drainage Area: 23.5 mi <sup>2</sup>			
	Design Flood	Base Flood	Overtopping Flood/ Flood of Record
Frequency	50-yr	100-yr	NA
Discharge	9780 cfs	12,212 cfs	NA
Water Surface Elevation at Bridge	475.39 ft	479.48 ft	NA

Flood plain data are based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State and interested or affected parties should make their own investigation.

NOTE:  
Existing utilities in conflict will be relocated by others prior to bridge construction

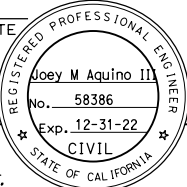
SCOUR DATA TABLE		
Support Location	Long Term (Degradation and Contraction) * Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	485.00	0.00
Abut 2	485.00	0.00

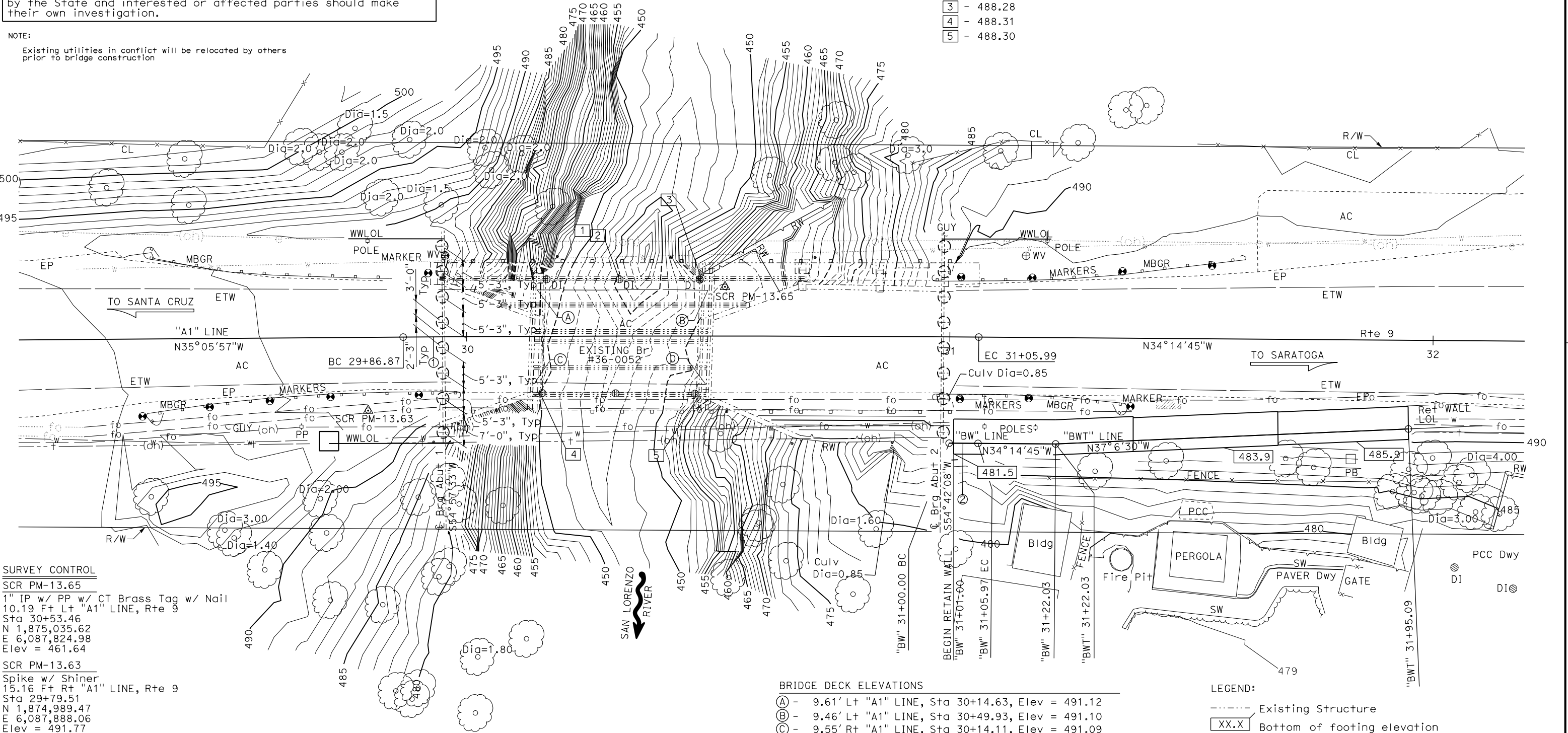
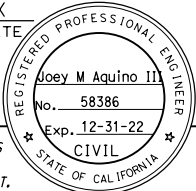
\* There is no anticipated degradation or contraction scour; this is the approximate ground elevation

CURVE DATA				
No. #	R	Δ	T	L
1	8,000.00	00°51'11"	59.56	119.12
2	7,978.00	00°02'34"	2.99	5.97

SOFFIT ELEVATIONS

- 1 - 488.28
- 2 - 488.26
- 3 - 488.28
- 4 - 488.31
- 5 - 488.30

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X DATE		
PLANS APPROVAL DATE					
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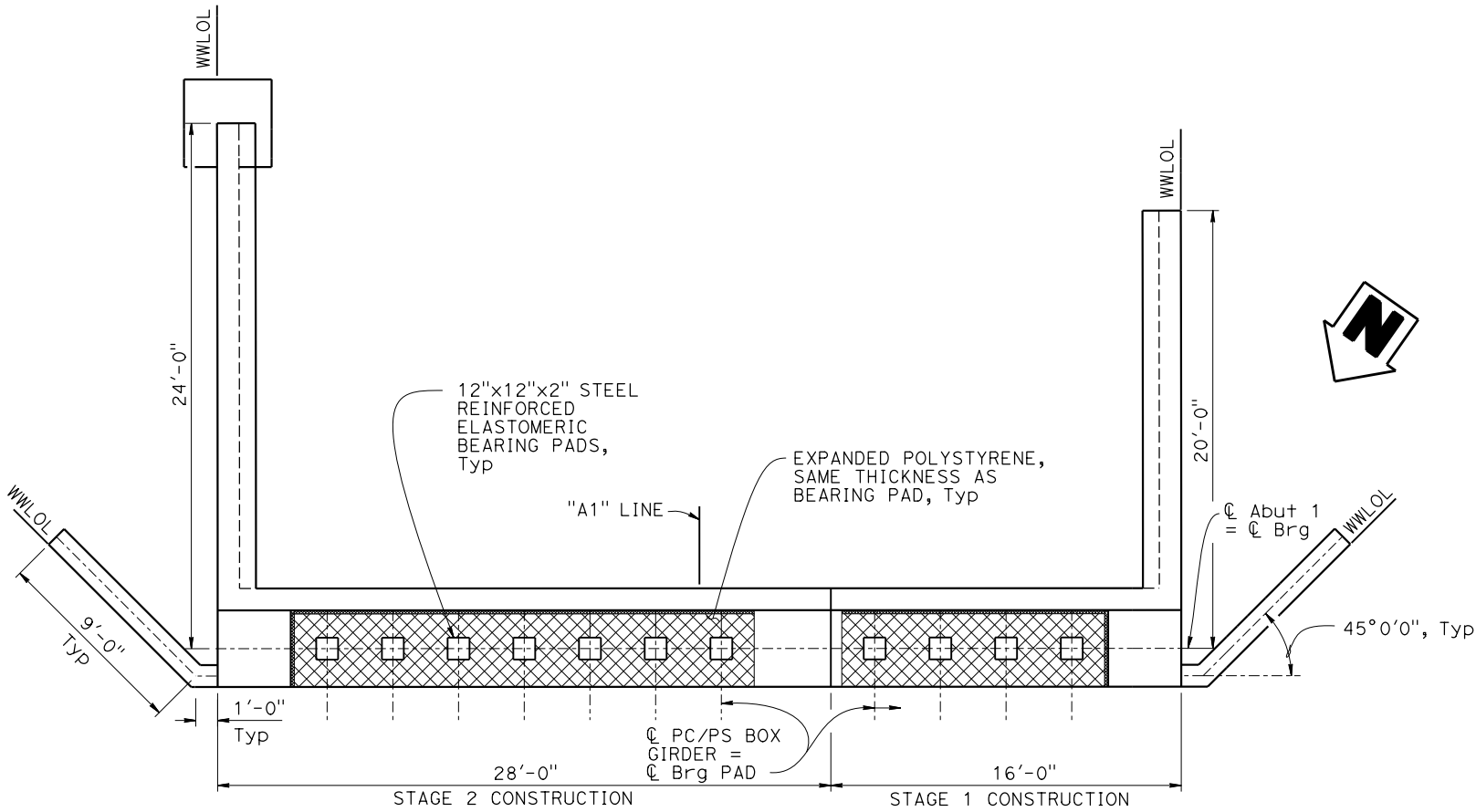


**SURVEY CONTROL**  
SCR PM-13.65  
1" IP w/ PP w/ CT Brass Tag w/ Nail  
10.19 Ft Lt "A1" LINE, Rte 9  
Sta 30+53.46  
N 1,875,035.62  
E 6,087,824.98  
Elev = 461.64  
SCR PM-13.63  
Spike w/ Shiner  
15.16 Ft Rt "A1" LINE, Rte 9  
Sta 29+79.51  
N 1,874,989.47  
E 6,087,888.06  
Elev = 491.77

- BRIDGE DECK ELEVATIONS
- (A) - 9.61' Lt "A1" LINE, Sta 30+14.63, Elev = 491.12
  - (B) - 9.46' Lt "A1" LINE, Sta 30+49.93, Elev = 491.10
  - (C) - 9.55' Rt "A1" LINE, Sta 30+14.11, Elev = 491.09
  - (D) - 10.00' Rt "A1" LINE, Sta 30+49.48, Elev = 491.08

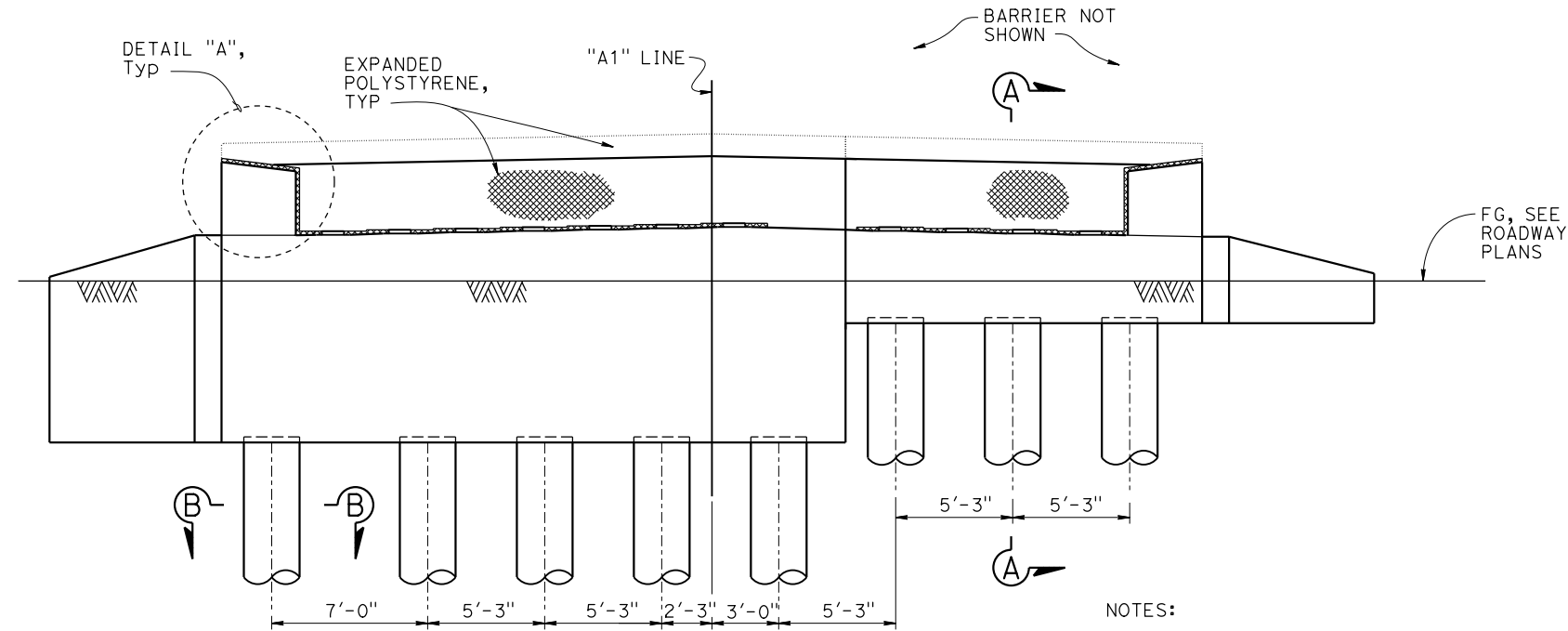
- LEGEND:
- Existing Structure
  - XX.X Bottom of footing elevation
  - 30"Ø CIDH Pile

PRELIMINARY INVESTIGATIONS BRANCH						DESIGN	BY	Mufeed Khalaf	CHECKED	Michael Bergman	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)											
SCALE:	VERT. DATUM:	NAVD88	SURVEYED	BY	DISTRICT	E. GONZALES	DETAILS	BY	Shadi Motalebi	CHECKED			Michael Bergman	36-0126	FOUNDATION PLAN										
1" = 10'	HORIZ. DATUM:	NAD83 (1991.35)	DRAFTED	BY	S. ZHENG	CHECKED	H. PEREZ	QUANTITIES	BY	Joey Aquino			CHECKED	Justin Woody							POST MILE	13.61			
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)						DATE PLOTTED => 3-DEC-2021    TIME PLOTTED => 15:55    ORIGINAL SCALE IN INCHES FOR REDUCED PLANS    0    1    2    3							UNIT: 3646 PROJECT NUMBER & PHASE: 05160000781						COUNTY/ROUTE: SCR/009 CONTRACT No.: 05-1H4704		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET
												4/28/21								X	X				



ABUTMENT PLAN

1/4" = 1'-0"



ABUTMENT ELEVATION

1/4" = 1'-0"

NOTES:

1. For "SECTION A-A" and "SECTION B-B", see "ABUTMENT DETAILS No. 1" sheet
2. For "DETAIL A", see "ABUTMENT DETAILS No. 2" sheet

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

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Structure Design  
STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED PROFESSIONAL ENGINEER

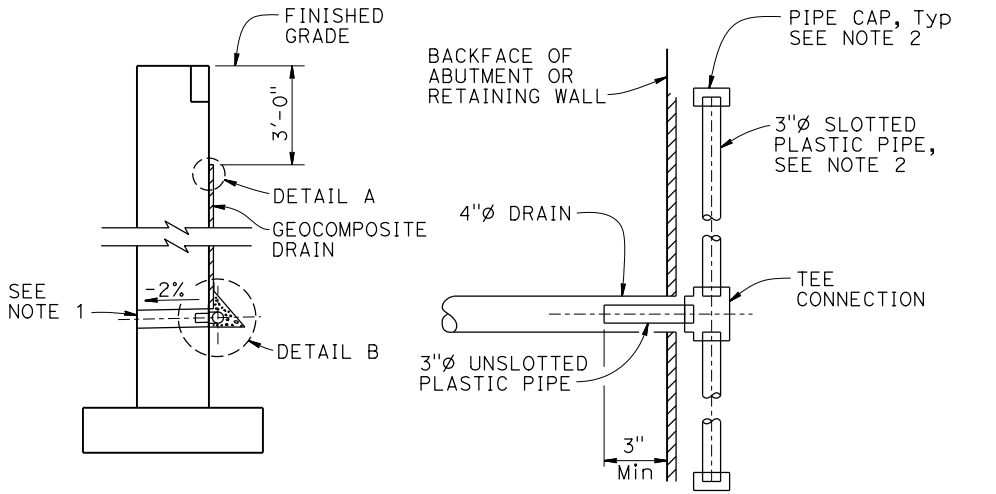
Joey M Aquino III

No. 58386

Exp. 12-31-22

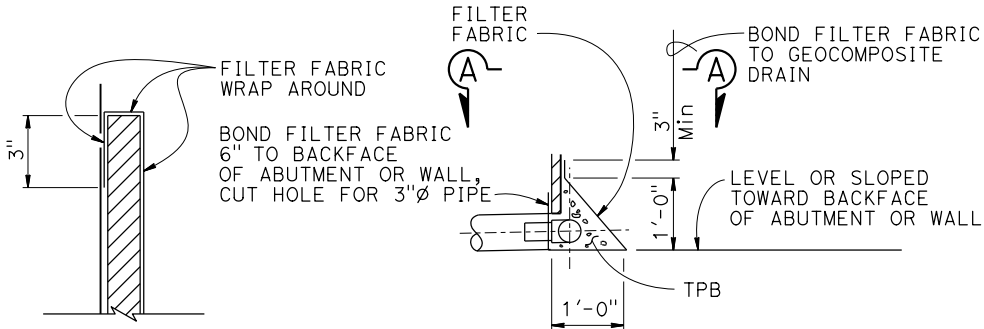
CIVIL

STATE OF CALIFORNIA



WALL SECTION

SECTION A-A



DETAIL A

DETAIL B

NOTES:

1. 4" drains at intermediate sag points and 25' maximum center to center (9'-0" C-C for Type 3 and 9'-3" C-C for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4" plastic pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3"± above finished grade.
2. Geocomposite drain, treated permeable base material and 3" slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" drain.
3. Connect the low end of plastic pipe to the main outlet pipe as applicable.

ALTERNATIVE TO BRIDGE DETAIL

B0-3  
3-1

WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL

NO SCALE

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

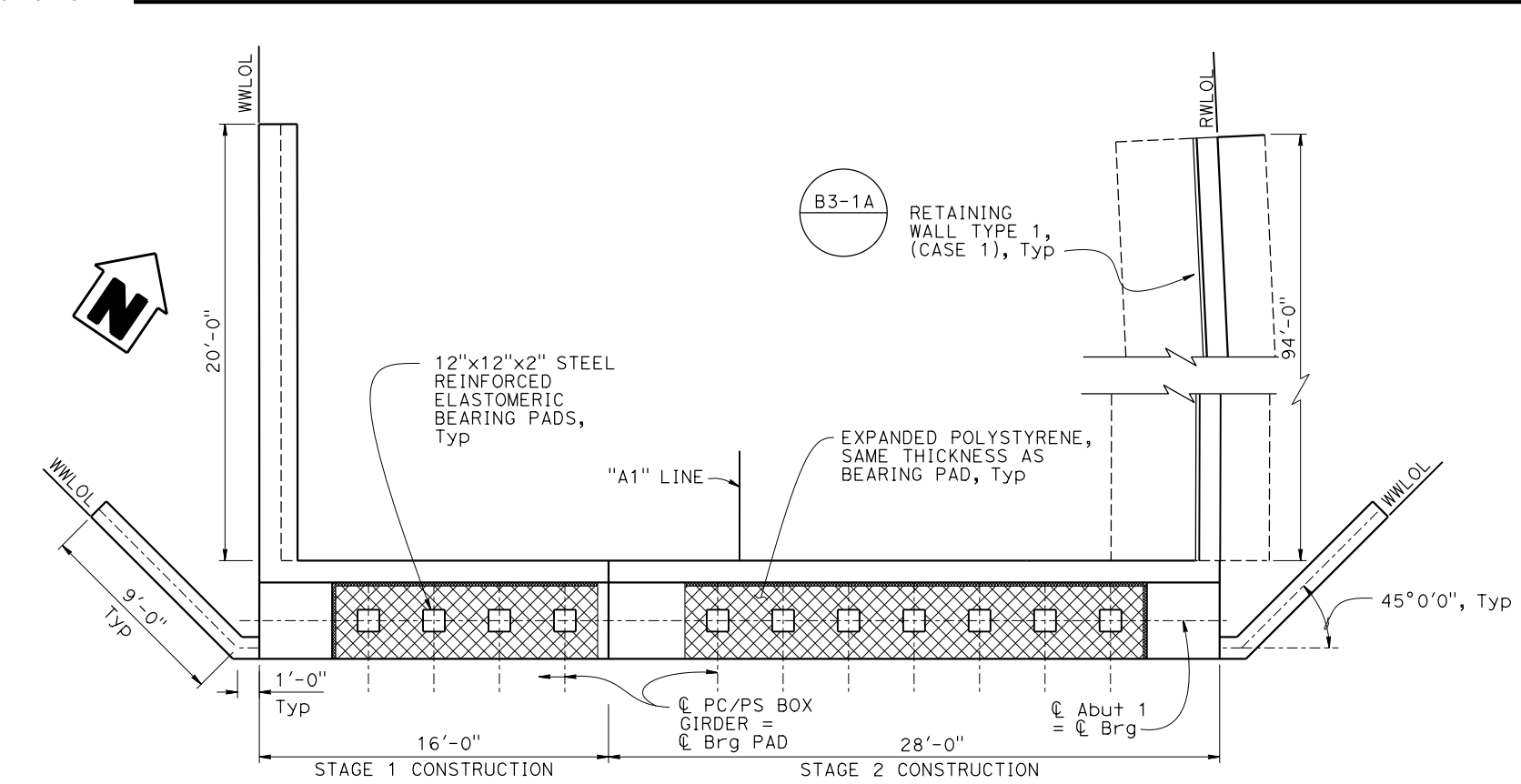
STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

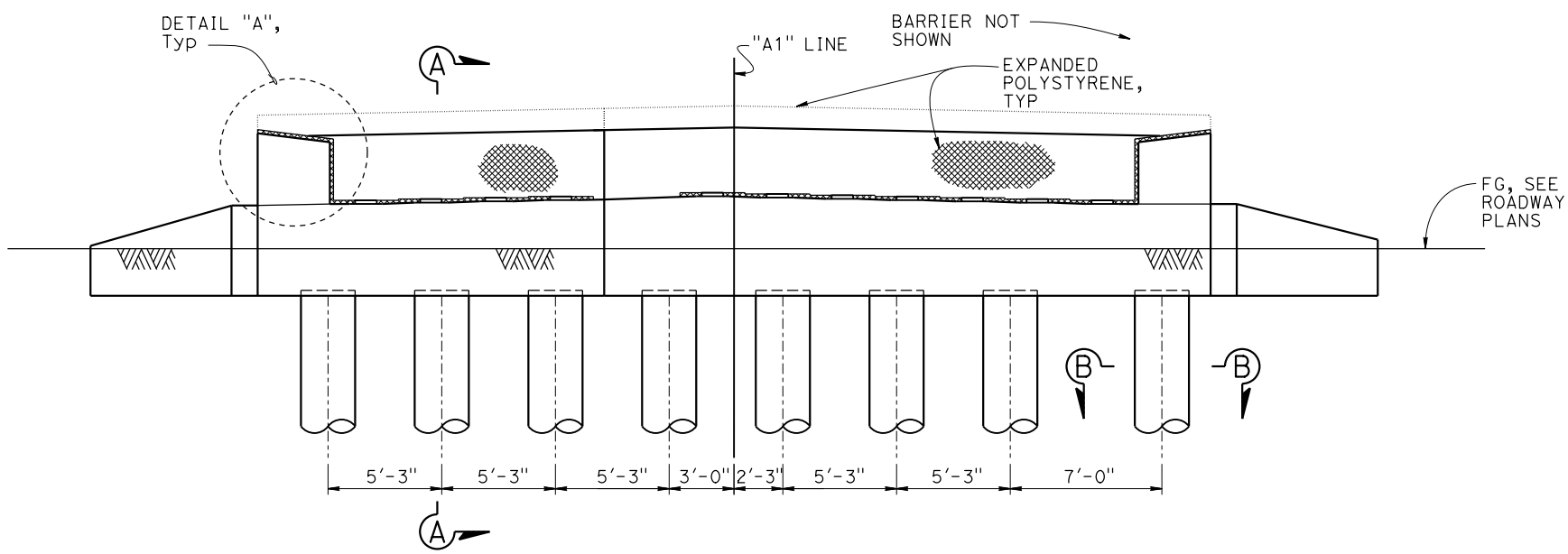
BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)

ABUTMENT 1 LAYOUT



**ABUTMENT PLAN**  
1/4" = 1'-0"



**ABUTMENT ELEVATION**  
1/4" = 1'-0"

INCOMPLETE PLAN  
FOR DESIGN STUDY  
PRINTED  
DATE: 3-DEC-2021  
Office of  
Structure Design  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER X DATE  
Joey M Aquino III  
No. 58386  
Exp. 12-31-22  
CIVIL  
STATE OF CALIFORNIA

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- NOTES:
1. For "SECTION A-A" and "SECTION B-B", see "ABUTMENT DETAILS No. 1" sheet
  2. For "DETAIL A", see "ABUTMENT DETAILS No. 2" sheet
  3. For retaining wall layout line, see "RETAINING WALL LAYOUT" sheet

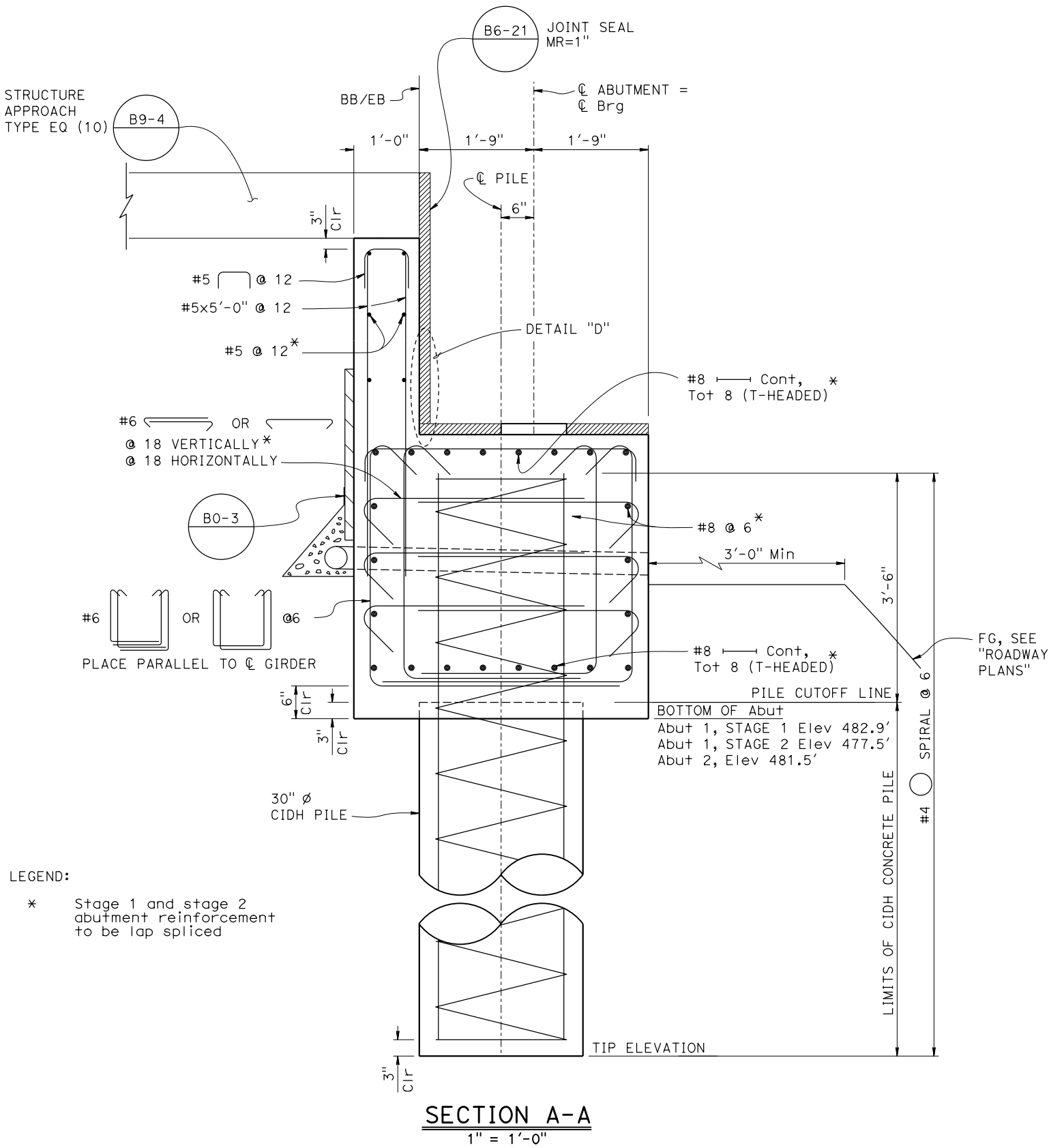
DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

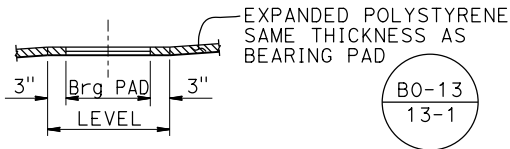
BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)  
ABUTMENT 2 LAYOUT



LEGEND:

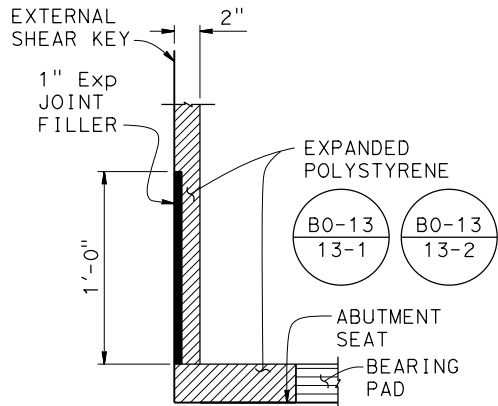
\* Stage 1 and stage 2 abutment reinforcement to be lap spliced



**BEARING PAD DETAIL**

NO SCALE

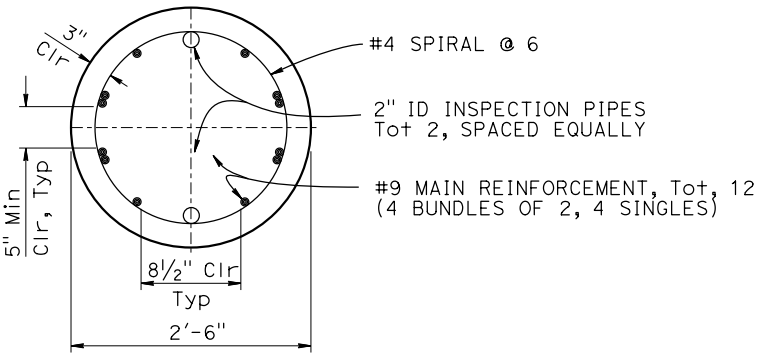
Details typical at all bearing pads



**DETAIL E**

NO SCALE

For location of "DETAIL E", see "DETAIL A" on "ABUTMENT DETAILS No. 2" sheet



NOTES:

All piles reinforcements to be Epoxy coated

**SECTION B-B**

1" = 1'-0"

INCOMPLETE PLAN FOR DESIGN STUDY

PRINTED DATE: 3-DEC-2021

Office of Structure Design  
STATE OF CALIFORNIA

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REGISTERED CIVIL ENGINEER			X	DATE	
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REGISTERED PROFESSIONAL ENGINEER

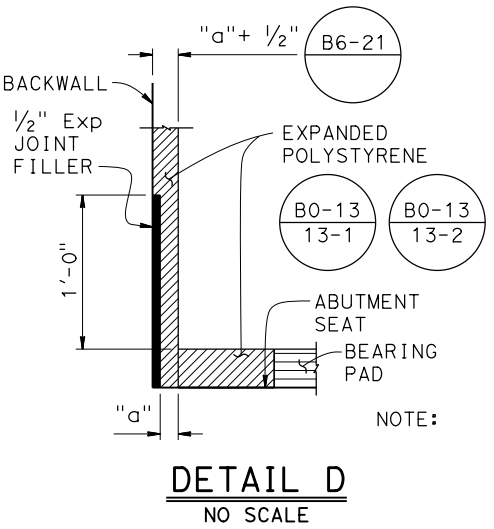
Joey M Aquino III

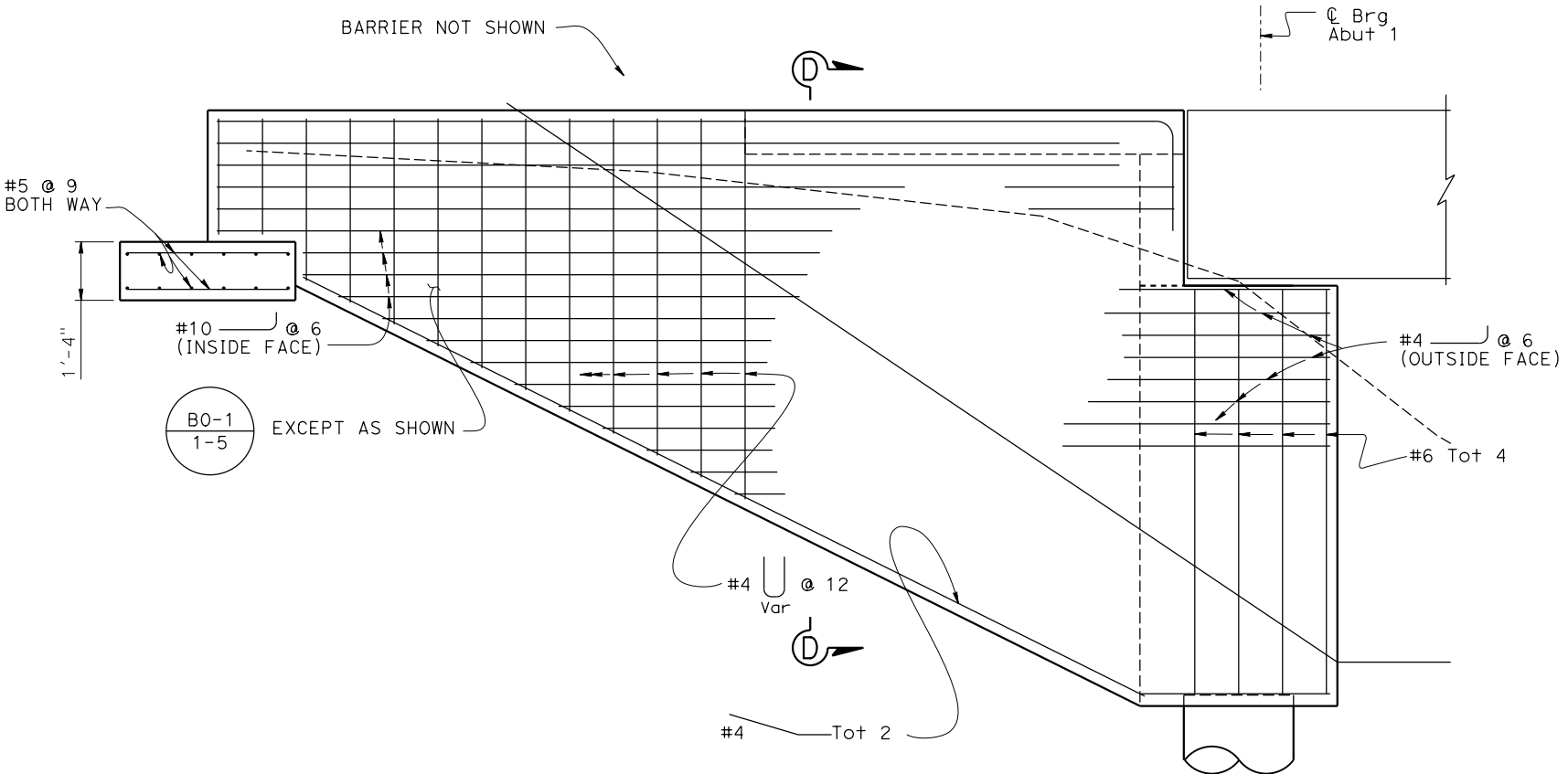
No. 58386

Exp. 12-31-22

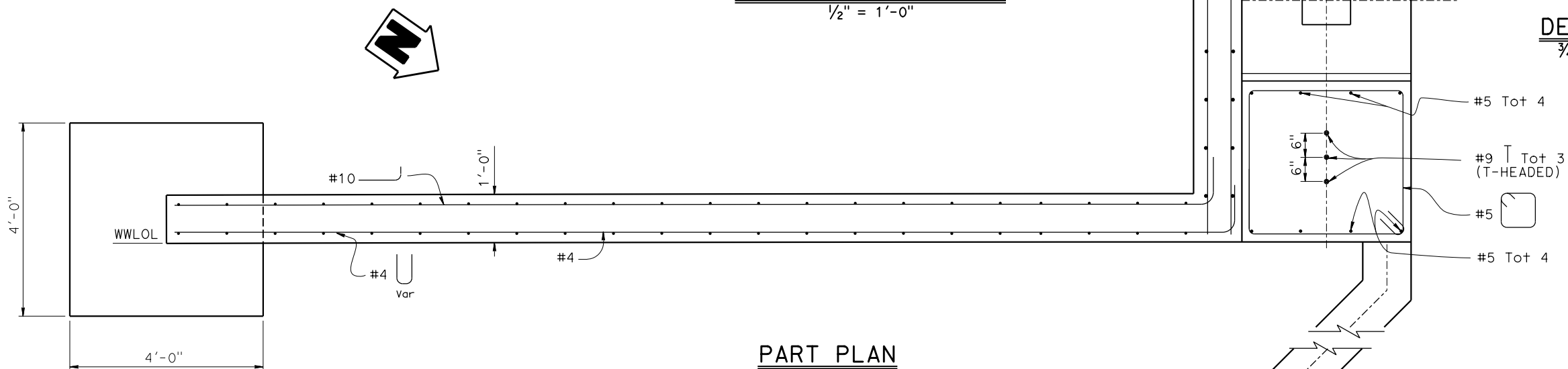
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WINGWALL ELEVATION  
1/2" = 1'-0"



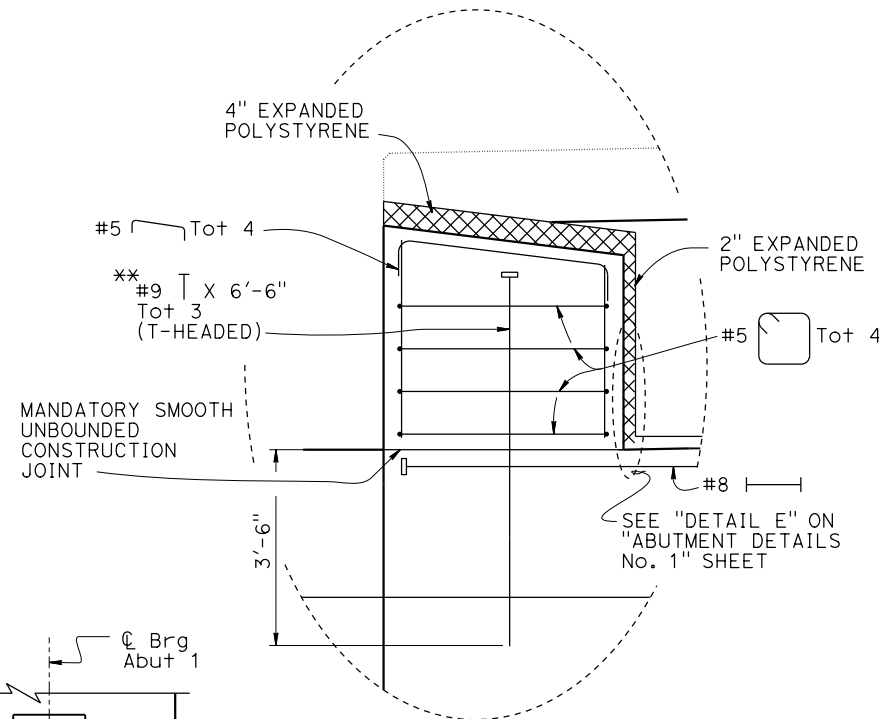
PART PLAN  
3/4" = 1'-0"

NOTE:  
For Short Wall Details, see "ABUTMENT DETAILS No. 3"

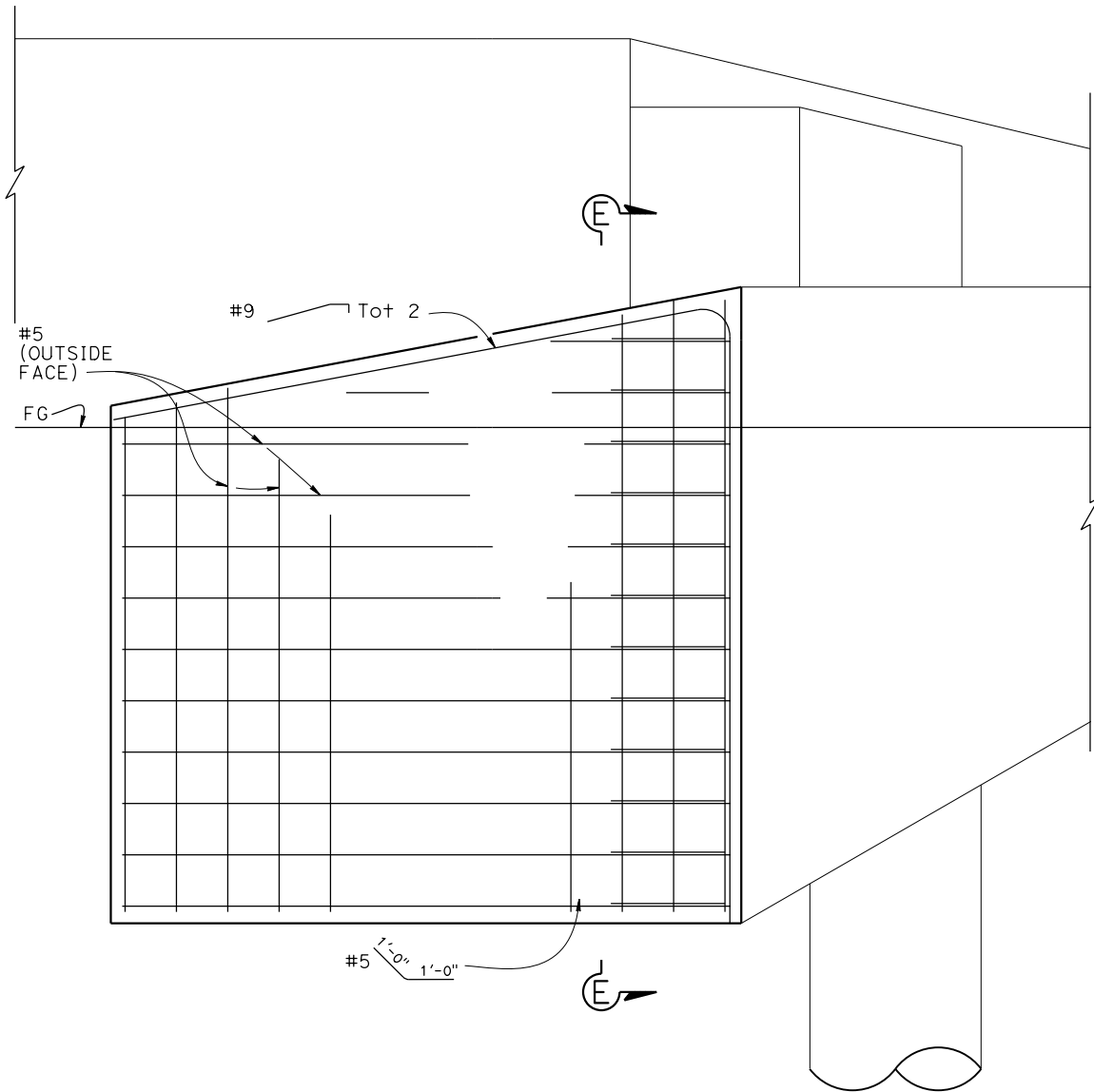
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FOR DESIGN STUDY  
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STATE OF CALIFORNIA

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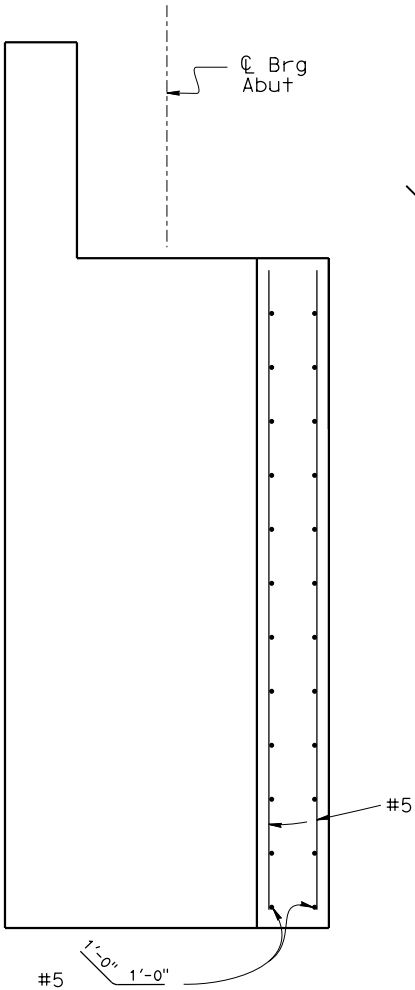
REGISTERED PROFESSIONAL ENGINEER  
Joey M Aquino III  
No. 58386  
Exp. 12-31-22  
CIVIL  
STATE OF CALIFORNIA



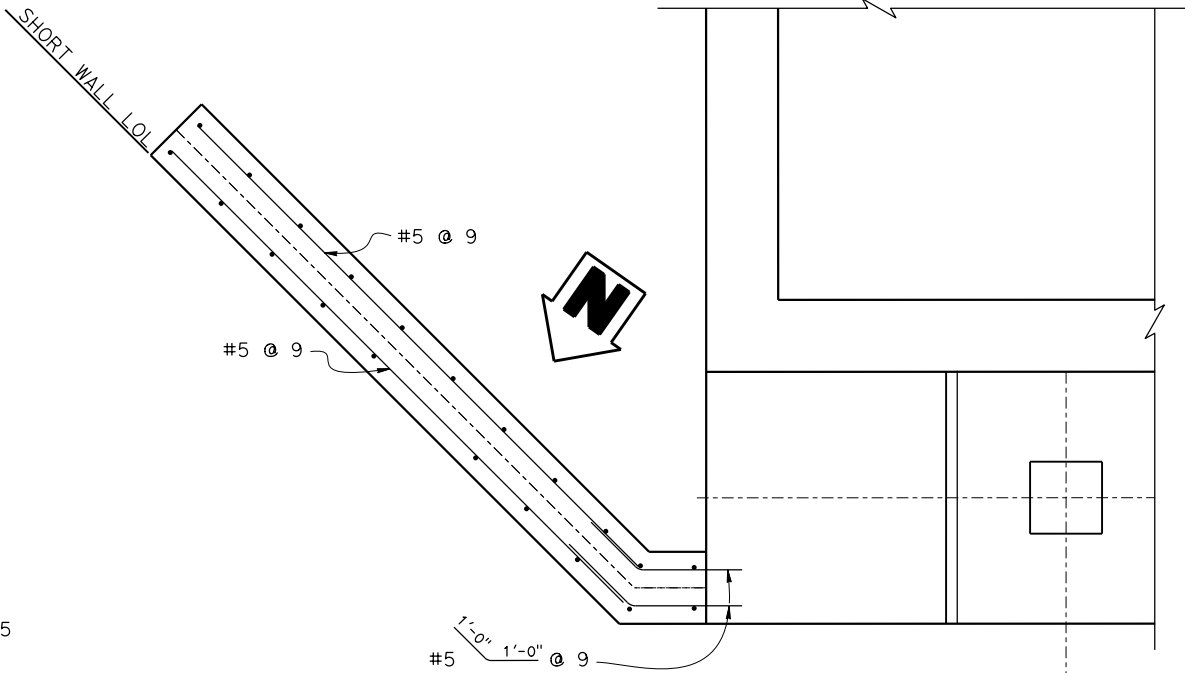
DETAIL A  
3/4" = 1'-0"



SHORT WALL ELEVATION  
3/4" = 1'-0"



SECTION E-E  
3/4" = 1'-0"



SHORT WALL PLAN  
3/4" = 1'-0"

INCOMPLETE PLAN  
FOR DESIGN STUDY  
PRINTED  
DATE: 3-DEC-2021  
Office of  
Structure Design  
STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED PROFESSIONAL ENGINEER

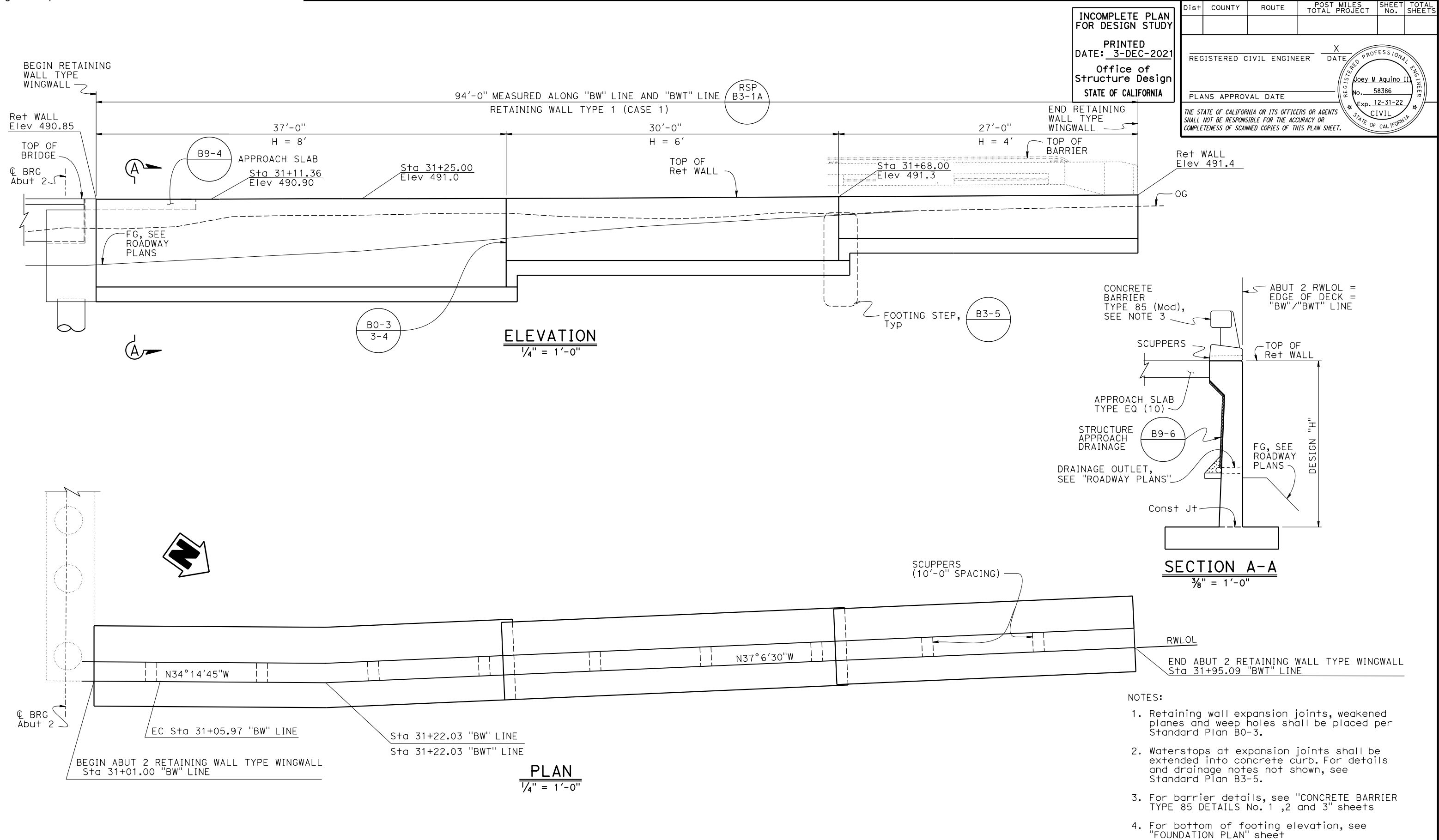
Joey M Aquino III

No. 58386

Exp. 12-31-22

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STATE OF CALIFORNIA



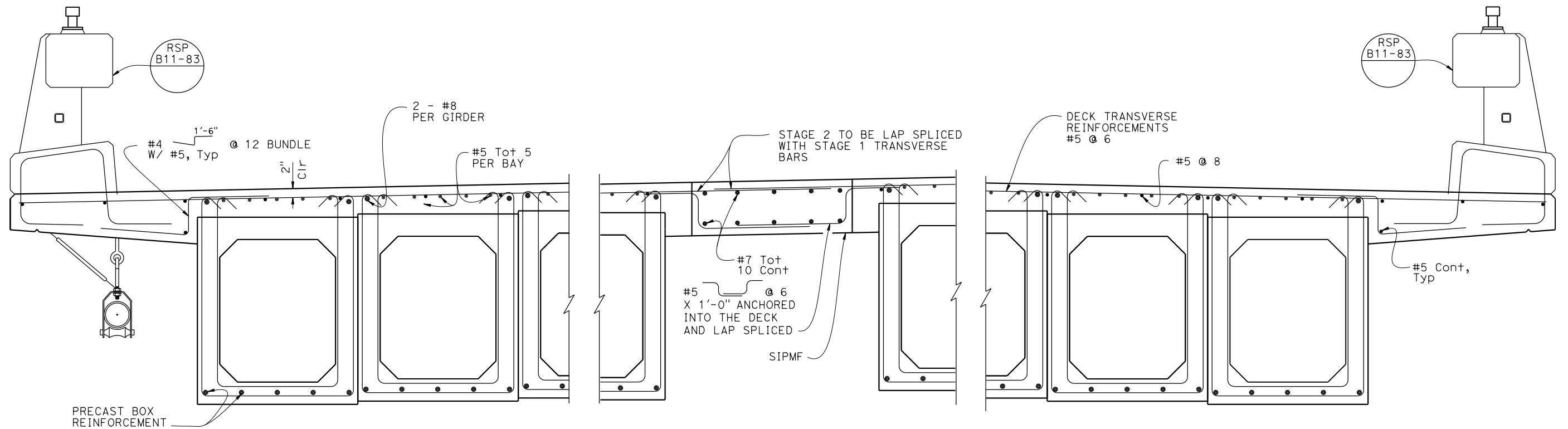
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)								
	DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman			36-0126	RETAINING WALL TYPE WINGWALL LAYOUT								
	QUANTITIES	BY Joey Aquino	CHECKED Justin Woody			POST MILE									
						13.61									
DATE PLOTTED => 3-DEC-2021 FILE => 36-0126-g-rwdt.dgn		TIME PLOTTED => 15:55 USERNAME => sl36540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 1-21-21 8-28-21		SHEET X	OF X

[illegible]

NOTES:

1. For Box Girder reinforcement see "BOX GIRDER DETAILS" sheet
2. PC/PS Box Girder reinforcement not shown
3. Inserts for the pipe hanger will be installed during stage 1

TYPICAL SECTION  
1/2" = 1'-0"



PART TYPICAL SECTION  
1" = 1'-0"

	DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)																		
	DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman			36-0126																			
	QUANTITIES	BY Joey Aquino	CHECKED Justin Woody			POST MILE																			
							13.61	TYPICAL SECTION																	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)				DATE PLOTTED => 3-DEC-2021 FILE => 36-0126-K-t801.dgn		TIME PLOTTED => 15:55 USERNAME => s136540		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0123		UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781		COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704		DISREGARD PRINTS BEARING EARLIER REVISION DATES		5-20-21		REVISION DATES		SHEET X		OF X	

NOTES:

1. For "SECTION A-A" and "SECTION B-B" see "PC/PS BOX GIRDER DETAILS No. 3" sheet
2. For "PRE-TENSIONING NOTES" see, "PC/PS BOX GIRDER DETAILS No. 3" sheet

CONSTRUCTION SEQUENCE FOR SPLICE GIRDER:

1. Place Splice diaphragms
2. Post Tensioning Girders
3. Girders lifted in place

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED PROFESSIONAL ENGINEER

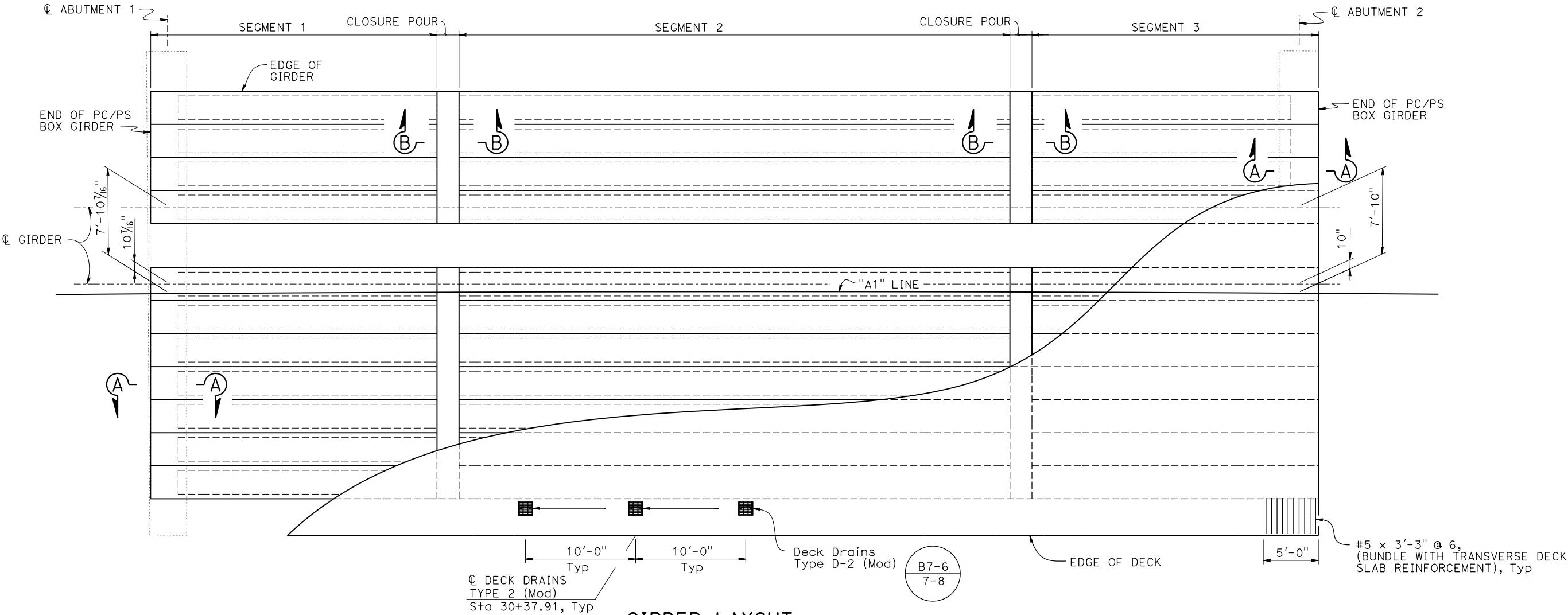
Joey M Aquino III

No. 58386

Exp. 12-31-22

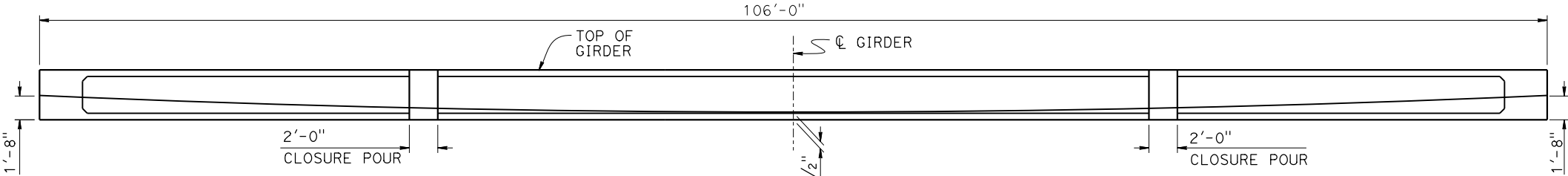
CIVIL

STATE OF CALIFORNIA



GIRDER LAYOUT

1" = 5'



ELEVATION

1" = 5'

NOTE:

Two cable paths are parabolic between points shown

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

STATE OF  
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DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)

PC/PS BOX GIRDER LAYOUT

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
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Office of  
Structure Design  
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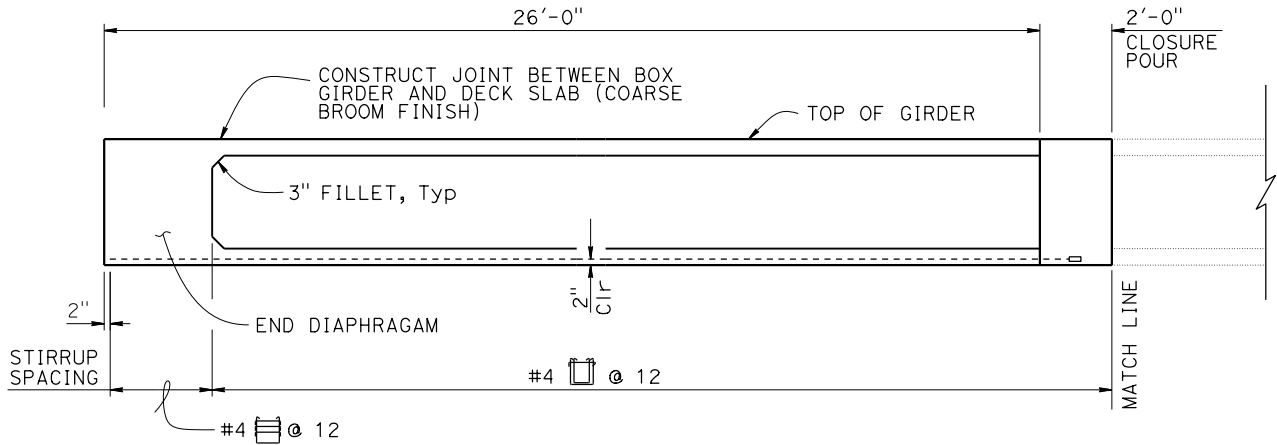
Joey M Aquino III

No. 58386

Exp. 12-31-22

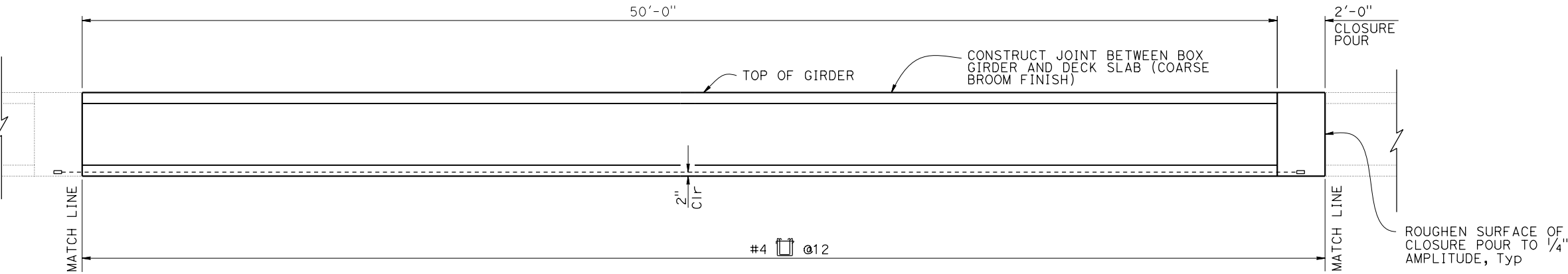
CIVIL

STATE OF CALIFORNIA



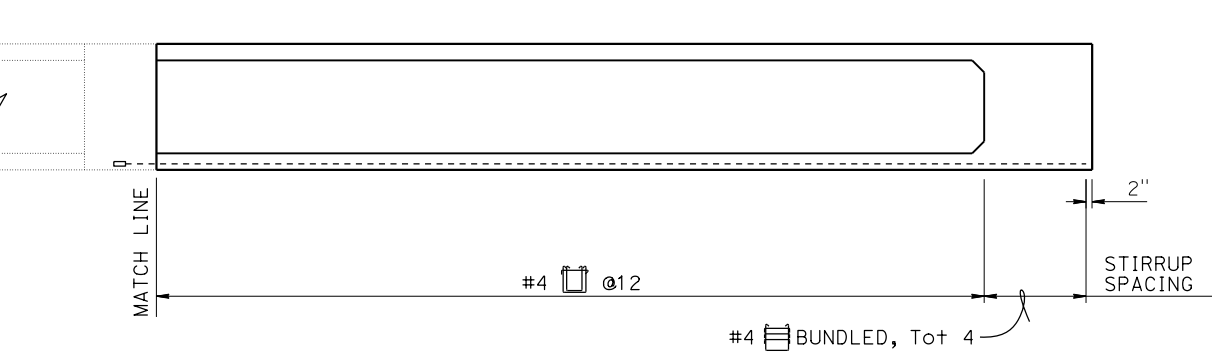
LONGITUDINAL SECTION SEGMENT 1

3/8" = 1'-0"



LONGITUDINAL SECTION SEGMENT 2

3/8" = 1'-0"



LONGITUDINAL SECTION SEGMENT 3

3/8" = 1'-0"

PRESTRESSING NOTES:

- JACKING FORCE (P): The jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel.
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel.
- CONCRETE STRENGTH: f'ci is at time of initial stressing  
f'c is at 28 days
- Deflection components are Informational - to be used in setting screed line elevations
- Screed line elevations for deck concrete will be determined by the Engineer.
- Prestressing strand shall be 270 ksi low relaxation
- A<sub>S</sub>, Min is the minimum area required of prestressing steel

POST-TENSIONING NOTES

270 ksi Low Relaxation Strands

Total Number of Girders	Pjack (Kips)	A <sub>S</sub> Min (in <sup>2</sup> )	Splice Concrete Strength (ksi)		Precast Girder Concrete Strength (ksi)		Anchor Set (in)
			f'ci	f'c	f'ci	f'c	
11	1230	6.0	5.0	8.0	5.0	8.0	0.37

Pjack = Prestressing Force per Girder.  
As min = Minimum area of prestressing steel.  
f'ci is at time of stressing.  
Approval of Engineer is required for deviation.  
The Min distance between centers of individual strands  
is 1.57" for 0.37" strand, 1.77" for 0.43" strand and  
0.51" strand, and 1.97" for 0.59" strand.

Note:  
For precast girder f'c see "Post Tensioning  
Notes" on "PC/PS box GIRDER DETAILS NO.3"  
sheet.

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)

PC/PS BOX GIRDER DETAILS No. 1

INCOMPLETE PLAN  
FOR DESIGN STUDY

PRINTED  
DATE: 3-DEC-2021

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STATE OF CALIFORNIA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

X  
DATE

PLANS APPROVAL DATE

Joey M Aquino III

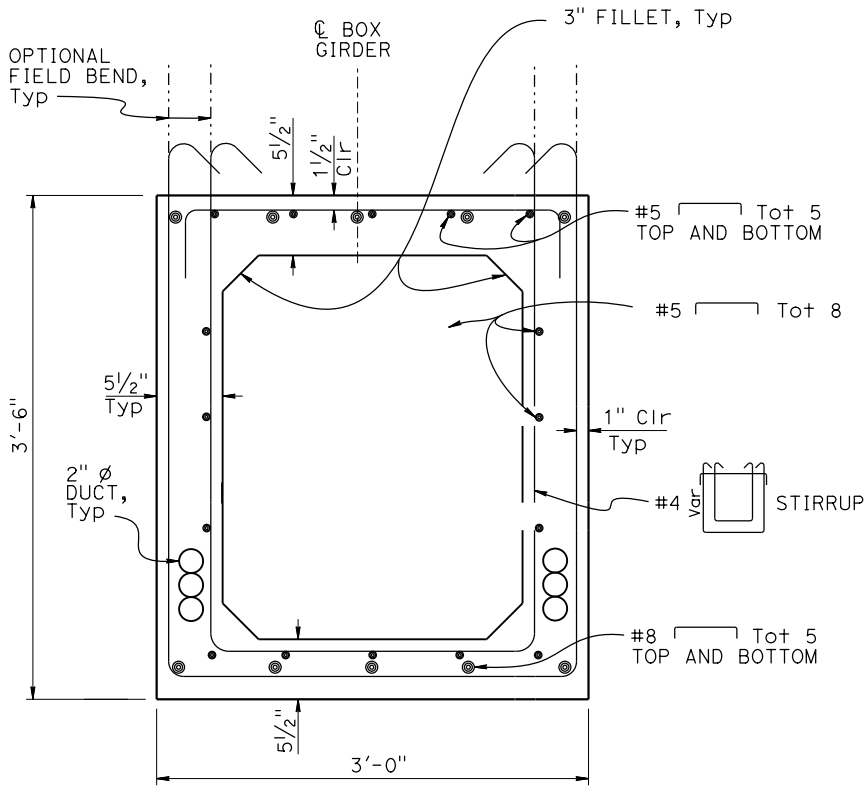
No. 58386

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PC/PS BOX GIRDER  
1/2" = 1'-0"

- NOTES:
1. Adjust steel spacing to avoid conflict with P/S strands
  2. Adjust tail length of stirrups to match deck cross slope and post tensioning ducts
  3. Not all Pre-stressed ducts are shown

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

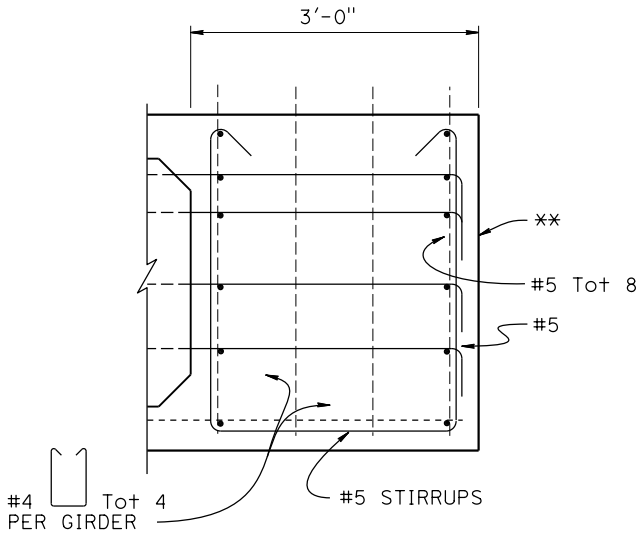
STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)  
PC/PS BOX GIRDER DETAILS No. 2

- NOTES:
1. Adjust steel spacing to avoid conflict with P/S strands
  2. Adjust tail length of stirrups to match deck cross slope and post tensioning ducts
  3. For location of "SECTION A-A" and "SECTION B-B" see "BOX GIRDER LAYOUT" sheet
  4. All reinforcements in splice region to be mechanically spliced
- \*\* Roughen surface of keyway and embedded surfaces of BOX GIRDER

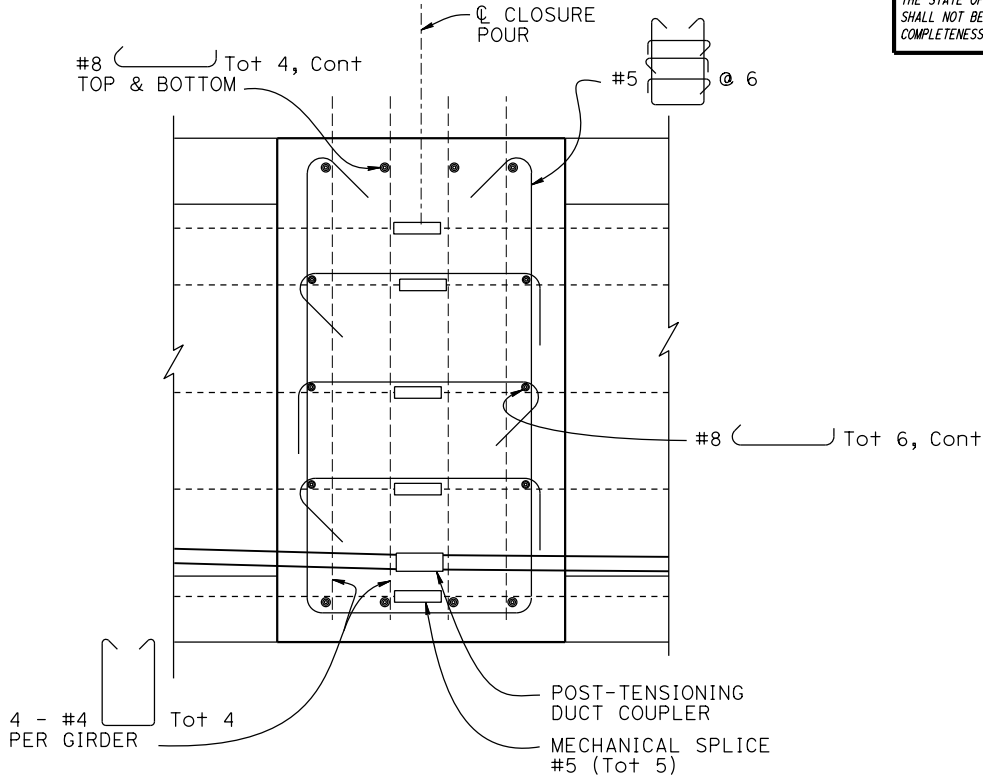


SECTION A-A  
END DIAPHRAGM @ ABUTMENT  
1" = 1'-0"

PRE-TENSIONING NOTES  
Interior & Exterior Girders  
270 ksi Low Relaxation Strands

Girder Segment	Total Number of Segment	Pjack (Kips)	A <sub>s</sub> Min (in <sup>2</sup> )	Concrete Strength (ksi)
				f' <sub>ci</sub>
1	11	175K	0.44	5.0
2	11	350K	0.44	5.0
3	11	175K	0.44	5.0

- NOTES:
- For POST TENSIONING NOTES see, "PC/PS BOX GIRDER DETAILS No. 1" sheet



SECTION B-B  
CLOSURE POUR  
1 1/2" = 1'-0"

DEFLECTION COMPONENTS AT MID-SPAN

	Deck DL (in)	Rail DL (in)
Girder	3.4	0.50

Deflection components: Informational - to be used in setting screed line elevations.  
Screed line elevations for deck concrete will be determined by the Engineer.

INCOMPLETE PLAN  
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REGISTERED CIVIL ENGINEER			X DATE		
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REGISTERED PROFESSIONAL ENGINEER

Joey M Aquino III

No. 58386

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NOTES:

1. All existing 1935 Abutments will be removed to Elevation 480.6  
Later Widening will be removed entirely
2. For "SECTION A-A", "SECTION B-B", "SECTION C-C", "SECTION D-D", "SECTION E-E" and "SECTION F-F", see "BRIDGE REMOVAL DETAILS No. 2"

INCOMPLETE PLAN  
FOR DESIGN STUDY

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REGISTERED PROFESSIONAL ENGINEER

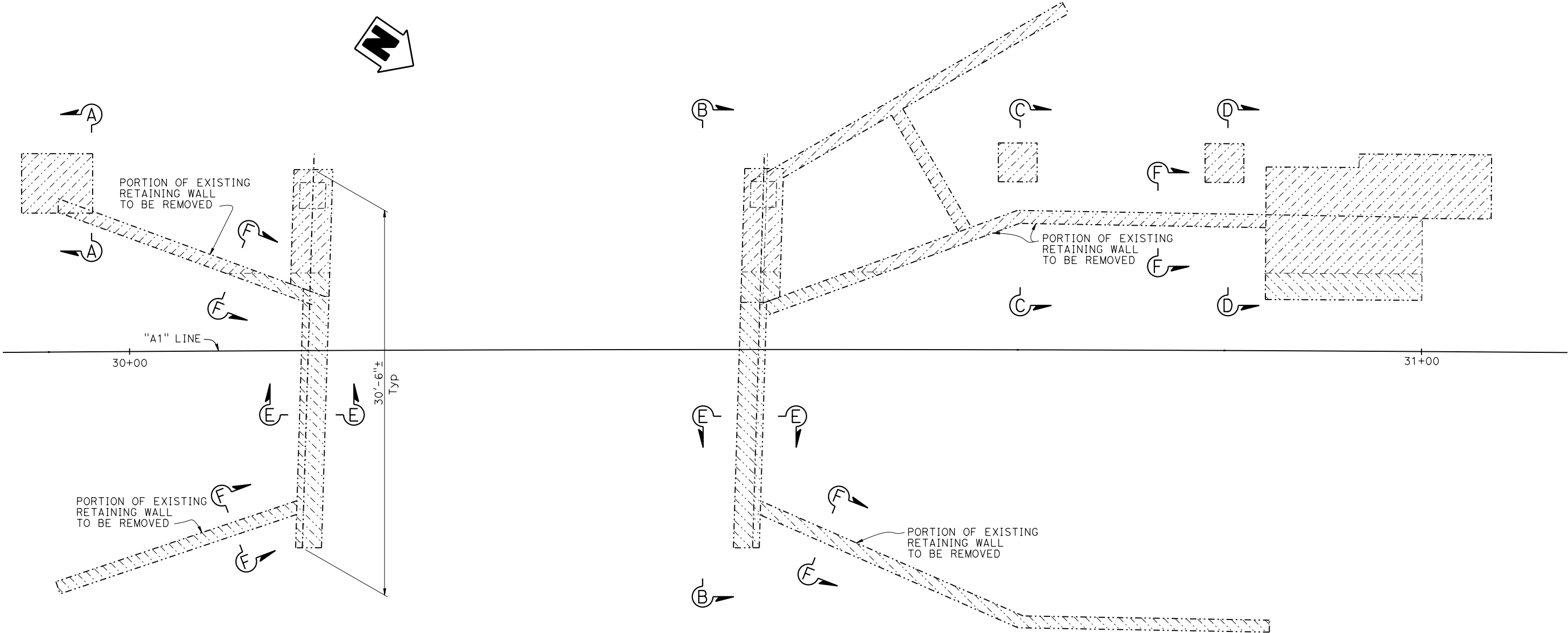
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No. 58386

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PLAN  
1/4" = 1'-0"

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

LEGEND:

- Existing Structure
- ▨ Limits of stage 1 Bridge Removal and Bridge Removal (Portion)
- ▨ Limits of stage 2 Bridge Removal and Bridge Removal (Portion)

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3


BRIDGE No.
36-0126
POST MILE
13.61

SAN LORENZO RIVER Br (REPLACE)  
BRIDGE REMOVAL DETAILS No. 1

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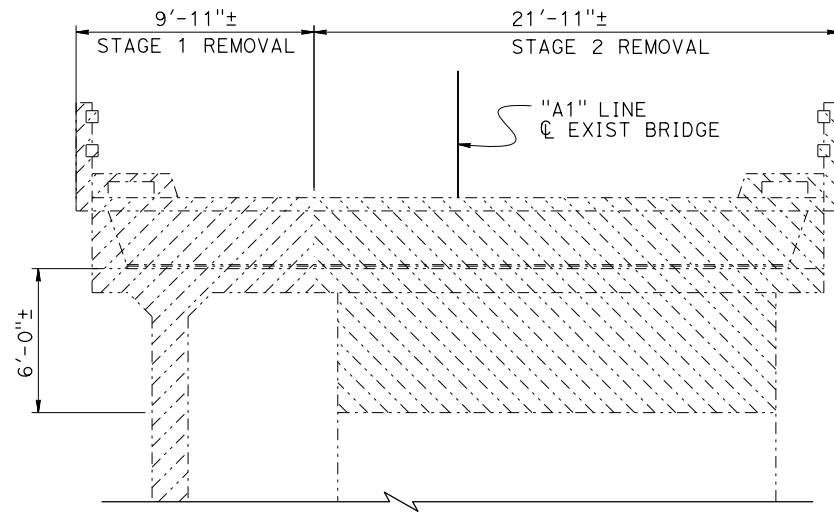
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

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REGISTERED CIVIL ENGINEER      X  
DATE \_\_\_\_\_





\_\_\_\_\_  
PLANS APPROVAL DATE

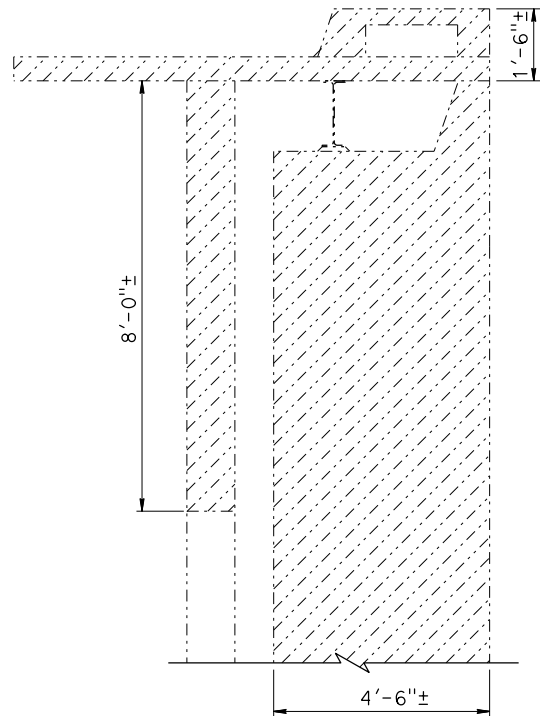
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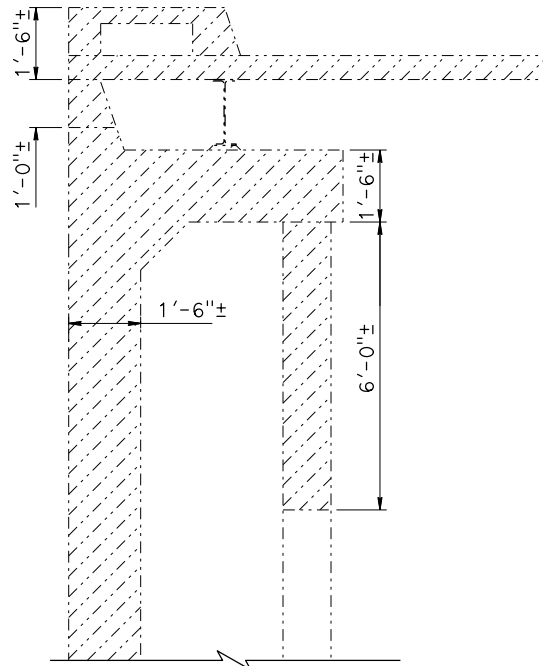
SECTION B-B  
1/4" = 1'-0"

----- Existing Structure  
 Limits of stage 1 Bridge Removal  
 Limits of stage 2 Bridge Removal

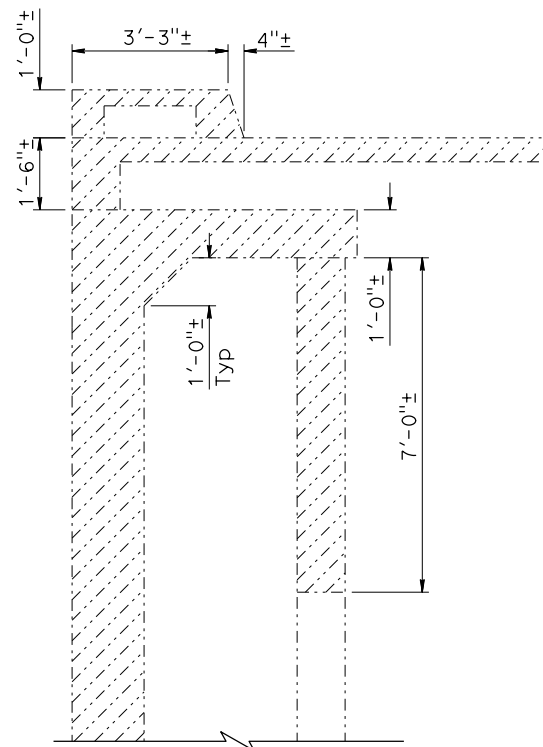
Entire superstructure will be removed



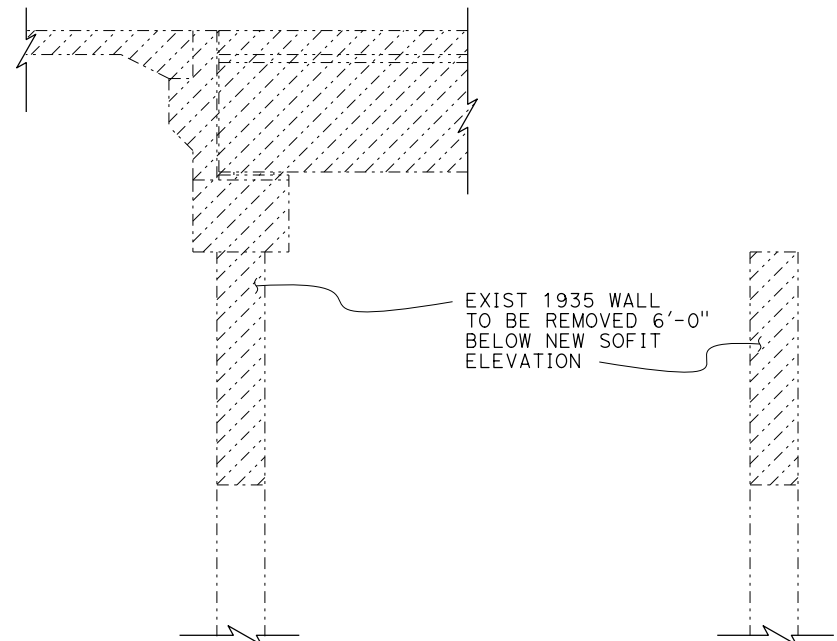
SECTION A-A  
1/2" = 1'-0"



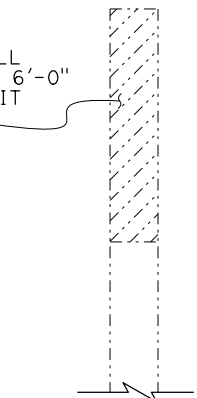
SECTION C-C  
1/2" = 1'-0"



SECTION D-D  
1/2" = 1'-0"



SECTION E-E  
1/2" = 1'-0"



SECTION F-F  
1/2" = 1'-0"

	DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN LORENZO RIVER Br (REPLACE)												
	DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman			36-0126													
	QUANTITIES	BY Joey Aquino	CHECKED Justin Woody			POST MILE	BRIDGE REMOVAL DETAILS No. 2												
						13.61													
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)				DATE PLOTTED => 3-DEC-2021 FILE => 36-0126-o-remd02.dgn	TIME PLOTTED => 15:56 USERNAME => s136540	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578 PROJECT NUMBER & PHASE: 05160000781	COUNTY/ROUTE: Scr/9 CONTRACT No.: 05-1H4704	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES				SHEET	OF
													6-7-21				X	X	

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REGISTERED PROFESSIONAL ENGINEER

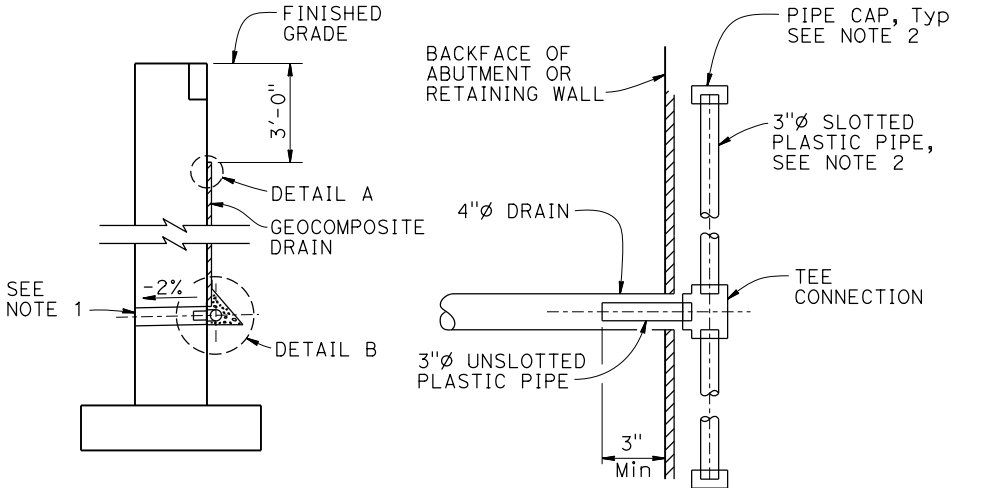
Joey M Aquino III

No. 58386

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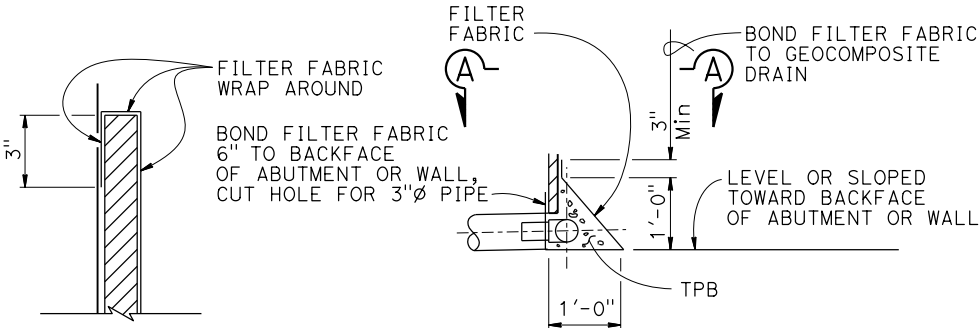
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WALL SECTION

SECTION A-A



DETAIL A

DETAIL B

NOTES:

- 4"Ø drains at intermediate sag points and 25' maximum center to center (9'-0" C-C for Type 3 and 9'-3" C-C for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4"Ø plastic pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3"± above finished grade.
- Geocomposite drain, treated permeable base material and 3"Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4"Ø drain.
- Connect the low end of plastic pipe to the main outlet pipe as applicable.

ALTERNATIVE TO BRIDGE DETAIL

B0-3  
3-1

WEEP HOLE AND GEOCOMPOSITE DRAIN DETAIL

NO SCALE

DESIGN	BY Mufeed Khalaf	CHECKED Michael Bergman
DETAILS	BY Shadi Motalebi	CHECKED Michael Bergman
QUANTITIES	BY Joey Aquino	CHECKED Justin Woody

STATE OF  
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DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
BRIDGE DESIGN  
BRANCH 3

BRIDGE No.
36-0126
POST MILE
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SAN LORENZO RIVER Br (REPLACE)

STRUCTURE APPROACH DRAINAGE DETAILS

**Attachment 1**

**CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE  
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)  
CALIFORNIA ENDANGERED SPECIES ACT  
INCIDENTAL TAKE PERMIT NO. 2081-2022-012-03**

**PERMITTEE:** California Department of Transportation

**PROJECT:** State Route – 9 Kings Creek Bridge Replacement  
Project – 1 (EA 05-1H470)

**PURPOSE OF THE MMRP**

The purpose of this MMRP is to ensure that the impact minimization and mitigation measures required by the California Department of Fish and Wildlife (CDFW) for the above-referenced Project are properly implemented, and thereby to ensure compliance with section 2081(b) of the Fish and Game Code and section 21081.6 of the Public Resources Code. A table summarizing the mitigation measures required by CDFW is attached. This table is a tool for use in monitoring and reporting on implementation of mitigation measures, but the descriptions in the table do not supersede the mitigation measures set forth in the California Incidental Take Permit (ITP) and in attachments to this ITP, and the omission of a permit requirement from the attached table does not relieve the Permittee of the obligation to ensure the requirement is performed.

**OBLIGATIONS OF PERMITTEE**

Mitigation measures must be implemented within the time periods indicated in the table that appears below. Permittee has the primary responsibility for monitoring compliance with all mitigation measures and for reporting to CDFW on the progress in implementing those measures. These monitoring and reporting requirements are set forth in this ITP itself and are summarized at the front of the attached table.

**VERIFICATION OF COMPLIANCE, EFFECTIVENESS**

CDFW may, at its sole discretion, verify compliance with any mitigation measure or independently assess the effectiveness of any mitigation measure.

**TABLE OF MITIGATION MEASURES**

The following items are identified for each mitigation measure: Mitigation Measure, Source, Implementation Schedule, Responsible Party, and Status/Date/Initials. The Mitigation Measure column summarizes the mitigation requirements of this ITP. The Source column identifies the ITP condition that sets forth the mitigation measure. The Implementation Schedule column shows the date or phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure. The Status/Date/Initials column shall be completed by the Permittee during preparation of each Status Report and the Final Mitigation Report, and must identify the implementation status of each mitigation measure, the date that status was determined, and the initials of the person determining the status.

	Mitigation Measure	Source	Implementation Schedule	Responsible Party	Status / Date / Initials
<b>BEFORE DISTURBING SOIL OR VEGETATION</b>					
1	Designated Representative. Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.	ITP Condition # 6.1	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
2	Designated Biologist(s), Biological Monitor(s). Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Biological Monitor(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Biological Monitor(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist(s) and Biological Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Biological Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Biological Monitor(s) must be changed.	ITP Condition # 6.2	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
3	Designated Biologist Authority. To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Site and otherwise facilitate the Designated Biologist in the performance of his/her duties. If the Designated Biologist is unable to comply with this ITP, then the Designated Biologist shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.	ITP Condition # 6.3	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
4	Education Program. Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are	ITP Condition # 6.4	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	

	authorized to perform work in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.				
5	Trash Abatement. Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.	ITP Condition # 6.6	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
6	Delineation of Property Boundaries. Before starting Covered Activities along each part of the route in active construction Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in that area.	ITP Condition # 6.9	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
7	Delineation of Habitat. Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.	ITP Condition # 6.10	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
8	Notification Before Commencement. The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.	ITP Condition # 7.1	Before commencing ground- or vegetation-disturbing activities	Permittee	
9	Temporary Work Platform and Debris Catchment System Streambed Protection Plan. A minimum of 30 days prior to the initiation of construction the Permittee shall provide a Temporary Work Platform and Debris Catchment System Streambed Protection Plan. The plan shall provide design plans of any temporary work platforms or debris catchment systems. The plan shall also describe how the Permittee will prevent excessive dust, debris and material from entering Covered Species habitat. This may include overlay of visqueen, installation of additional catch-basin systems or utilization of a timber work platform with visqueen underlay during demolition, removal and subsequent construction.	ITP Condition # 8.3	Before commencing ground- or vegetation-disturbing activities	Permittee	
10	Pre-Construction Covered Species Check. Forty-Eight (48) hours prior to the start of Covered Activities, the Designated Biologist shall inspect the Project Area for Covered Species. Covered Species shall be removed by the Designated Biologist and translocated to a safe location as specified in Condition of Approval 8.7.	ITP Condition # 8.4	Before commencing ground- or vegetation-disturbing activities	Permittee	
11	Dewatering and Diversion. A minimum of 30 days prior to the initiation of construction the Permittee shall submit for CDFW review and acceptance in writing (via e-mail) a stream diversion/dewatering plan. The stream diversion shall be removed each season by October 15 as specified in Condition of Approval 8.1. The Permittee shall implement the following during dewatering and water diversion:  a) Cofferdams shall be constructed of a non-erodible material which does not contain soil or fine sediment. Sheet piles, gravel-filled bags and/or k-rails shall be used to construct a dam to isolate the stream from its existing channel and re-direct flows out of the excavation area. Bags for gravel bags will be made of burlap or woven synthetic material. The bags will be of sufficient size and strength to hold a minimum of 1.0-cubic-foot of clean gravel, when they are filled to 50 percent of their full capacity. The durability of the burlap will be rated as 10-ounce burlap. The	ITP Condition # 8.6	Before commencing ground- or vegetation-disturbing activities	Permittee	

	<p>ties and burlap will be made of natural materials. The gravel-filled revetment will be wrapped in plastic to further seal the flow and prevent entrapment of Covered Species.</p> <p>b) Cofferdams and the stream diversion system shall remain in place and functional throughout the seasonal work window construction period. If the cofferdams or stream diversion fail, Permittee shall repair them immediately.</p> <p>c) When the cofferdam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall be allowed to pass downstream of the excavation to maintain aquatic life below the dam. Flow shall be of sufficient quality, quantity and temperature to support fish and other aquatic species both above and below the diversion. The cofferdam materials shall be constructed of non-polluting materials.</p> <p>d) To minimize the potential for Covered Species to be entrained during de-watering activities, Permittee shall establish a Covered Species exclusion barrier and shall place the pump intakes away from complex vegetated banks that may contain habitat for Covered Species. Pump intakes shall be placed away from complex vegetated banks that may contain habitat for Covered Species. Screen material may be constructed of any rigid woven, perforated, or slotted material that provides water passage while physically excluding fish. Round openings in the screen shall not exceed 3/32-inch diameter, square openings shall not exceed 3/32-inch measured diagonally, and slotted openings shall not exceed 0.069 inches in width. Approach velocity shall not exceed 0.33 feet per second.</p> <p>e) Permittee shall select and install site exclusion methods to ensure that Covered Species cannot reenter the Project Area or become impinged on exclusion net or screen. The Designated Biologist shall regularly monitor site exclusion.</p> <p>f) The Designated Biologist shall monitor dewatering at all times. The Designated Biologist shall reduce the rate of diversion as needed to avoid impacts to Covered Species. The Designated Biologist shall monitor upstream and downstream reaches to ensure no Covered Species are stranded or in distress during reduction of flows.</p> <p>g) During excavation, Permittee shall install and maintain check-dams or equivalent sediment control methods as necessary to trap and control sediment-laden water. Permittee shall remove any turbid water and sediment present in the work area prior to restoring water flow through the project site and place them in a location where they cannot enter waters of the state.</p> <p>h) Reintroduction of stream flows shall be gradual to the isolated work area to prevent stranding, channel instability, or excessive scour. The Designated Biologist shall monitor upstream and downstream reaches to ensure no Covered Species are stranded or in distress during reintroduction of flows. If conditions causing or contributing to stress and/or injury are observed, Permittee shall take immediate remedial actions directed at lessening sources of stress. This may include a more gradual reintroduction of flows to avoid abrupt water surface elevation changes both downstream and upstream of the Project Area.</p> <p>i) In the event that work must be phased, Permittee shall remove all cofferdam material prior to the onset of high flows.</p>				
12	<p>Covered Species Rescue Plan. The Permittee shall implement a Covered Species Rescue Plan to be implemented during Project exclusion and stream diversion operations for all species covered under this ITP. The Covered Species Rescue Plan shall include at minimum the following:</p>	ITP Condition # 8.7	Before commencing ground- or vegetation-disturbing activities	Permittee	

<p>a) Covered Species capture and relocation shall be conducted by or under the direct supervision of the CDFW-approved Designated Biologist, as required by Condition of Approval 6.2.</p> <p>b) Prior to the installation of cofferdams and subsequent Covered Activities, the Designated Biologist shall capture and relocate Covered Species to the nearest predetermined release location, approved in advance by CDFW.</p> <p>c) Before capture and relocation of Covered Species, the Designated Biologist shall identify the most appropriate release location(s). Permittee shall submit the proposed release locations to CDFW for review and acceptance prior to commencement of Covered Activities. Release locations shall provide suitable habitat for Covered Species and shall be selected to minimize the likelihood of Covered Species reentering the work area.</p> <p>d) All dip nets used to capture Covered Species shall be made of a soft braded nylon material that is non-abrasive. Mesh sizing shall be matched to species and the life stages likely encountered.</p> <p>e) Relocation activities shall be performed in the morning if maximum daytime air temperatures are expected to exceed 23 °C (~75 °F).</p> <p>f) Electroshocking shall be conducted using the National Marine Fisheries Service Guidelines for Electrofishing Waters Containing Salmonids Listed Under the Endangered Species Act, June 2000. <a href="http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf">http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf</a>.</p> <p>g) Captured Covered Species must be kept in a closable container in an adequate amount of cool, clean, well-oxygenated water (e.g., a cooler with lid containing stream water and a battery-operated air stone). Water temperature shall be monitored and kept below 60°F. If necessary, water shall be cooled with ice without introducing ice-borne chemical contaminants. Transport containers shall have a water volume of no less than 5-gallons, preferably more. Covered Species density in the transport container shall not exceed 10 Covered Species (40-80mm) per gallon of water. Collected Covered Species shall not be anesthetized at any point during the rescue operation.</p> <p>h) No employee or contractor shall remove any Covered Species, dead or alive, from the site for personal use. All efforts to reduce the time that live Covered Species are out of the water shall be made to reduce the chances of incidental take during the capture and relocation. All Covered Species are to be promptly returned to the water with the exception of mortality.</p> <p>i) Efforts shall be made to reduce capture and handling stress, minimize the time that Covered Species are held in buckets, and minimize handling stress during processing and release. Covered Species shall not be held in containers with other species. Covered Species shall be processed first and relocated as soon as possible. Species name and length data shall be recorded on data sheets, as well as time, date, location, gear type, water temperature, and any other pertinent observations of the Covered Species. Permittee shall provide Covered Species capture data to CDFW in the Monthly Compliance Report, as required by Condition of Approval 7.5.</p> <p>j) Permittee shall preserve dead individuals by freezing or placing in a sealed container with 10 percent formalin solution. Information on time and exact location of any incidental take, method of take, length of time from death to preservation, water temperature, and any other</p>				
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	<p>relevant information will be recorded in writing. Permittee shall contact the CDFW regional representative for instructions on transmitting preserved individuals. Any take of non-Covered Species shall be documented and included in the Monthly and Final Mitigation Reports, as required by Condition of Approval 7.5 and 7.7.</p> <p>k) After the Covered Species relocation effort is completed, if additional Covered Species are observed, Permittee shall cease Covered Activities until those individuals have been relocated. The Designated Biologist shall remain at the site during Covered Activities to capture and relocate additional Covered Species as necessary.</p> <p>l) After completing the rescue, the Designated Biologist shall prepare a brief documentation report. The report shall include information on the personnel conducting the rescue, methods used, numbers of each species collected and relocated, length data, and estimate of the survival immediately after release. Photographs of the site and rescue operations shall be included. The report shall be provided by the Permittee to CDFW in the next Monthly Compliance Report required by Condition of Approval 7.4 and in the Annual and Final Mitigation Reports, Condition of Approval 7.5 and 7.7.</p>				
13	<p>Concrete Curing. All concrete used shall be excluded from the wetted channel or areas where it may come into contact with water for a period of 30 days after it is poured/sprayed. Commercial sealants may be applied to the poured concrete surface where difficulty in excluding flow for a long period may occur. If sealant is used the proponent shall follow the instructions as noted on the product label. All sealants shall be approved in advance, in writing by CDFW prior to their use on-site. As an alternative, water quality testing and analysis may be conducted in coordination with CDFW. Results shall be submitted and accepted by CDFW prior to removal of the temporary diversion system that will re-introduce flows to new concrete.</p>	ITP Condition # 8.10	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
14	<p>Decontamination of Clothing and Equipment. Any equipment that will enter the channel during construction will be decontaminated before and after construction to prevent the spread of aquatic diseases, such as ranavirus, and invasive aquatic species. Workers that will enter the riparian area, bed, bank or channel must also decontaminate waders, boots and other clothing that will come in direct contact with the water. Decontamination of clothing and equipment will be done through by selecting one of the following:</p> <p>a) Drying equipment without washing, in an upland location following last aquatic use. If average daytime temperatures exceed 80 F, drying times will be at least 7 days. If average daytime temperatures are below 80 F, drying times will be at least 30 days.</p> <p>b) Scalding water wash (at least 140 F) with varying high- and low-pressure spray to dislodge pathogens, vegetation, and contaminated sediment.</p> <p>c) Freezing at a temperature of less than 32 F for more than 72 hours.</p> <p>d) Soaking in a CDFW-approved disinfectant solution for at least two minutes (or longer, depending on the disinfectant used). To avoid harm to non-target species, disinfected clothing and equipment will be thoroughly rinsed in a water bath before entering the stream.</p> <p>e) Repeat decontamination is required only if the equipment/clothing is removed from the site, used within a different water body, and returned to the Project site. Decontamination will take place in an upland location, preferably in the staging area, and any chemicals used during decontamination will be prevented from entering water bodies or storm water drains.</p>	ITP Condition # 8.12	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	

15	Rock Slope Protection Filter Fabric Prohibition. No rock slope protection (RSP) filter fabric, geotextile fabric or similar plastic-derived materials are authorized for permanent use within the Project Area under the terms of this ITP.	ITP Condition # 8.13	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
16	<p>Habitat Management Land Acquisition and Restoration: CDFW has determined that habitat restoration, enhancement and long-term management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result with implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation.</p> <p>To meet this requirement, the Permittee shall restore approximately 0.07 acres of temporary riparian and aquatic habitat disturbance on-site, enhance and restore approximately 77 linear feet of riparian habitat on-site that is contiguous with other Covered Species habitat and install a Covered Species Rootwad fascine bundle/willow habitat features, and manage the Habitat Management (HM) pursuant to Conditions of Approval 9.3 below. Long-term funding for monitoring and management of created Covered Species habitat must be complete before starting Covered Activities or within 18 months of the effective date of this ITP if Security is provided pursuant to Condition of Approval 10 below for all uncompleted obligations.</p>	ITP Condition # 9	Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)	Permittee	
17	<p>Cost Estimates. CDFW has estimated the cost of habitat creation, restoration, and long-term management of Covered Species habitat creation and restoration of temporarily disturbed habitat as follows:</p> <p>On-Site habitat restoration and enhancement costs for a total of 0.07 acres of Covered Species riparian and aquatic habitat including a minimum of 50 linear feet of willow fascine bundle/willow structures estimated at \$24,067.00.</p> <p>Long-term management funding as described in Condition of Approval 9.2, estimated at \$33,832.00. Management funding is estimated initially for the purpose of providing Security to ensure implementation of habitat creation, restoration, monitoring and management.</p> <p>All costs associated with CDFW engaging an outside contractor to complete the mitigation tasks, including but not limited to acquisition, protection, and perpetual funding and management of the HM lands and restoration of temporarily disturbed habitat. These costs include but are not limited to the cost of issuing a request for proposals, transaction costs, contract administration costs, and costs associated with monitoring the contractor's work \$40,000.00.</p>	ITP Condition # 9.1	Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)	Permittee	
18	Management Fund. The Permittee shall ensure that HM lands are managed, maintained, and monitored as described in this ITP. Permittee shall provide ten years of monitoring and management funding for activities outlined in the final accepted Habitat Enhancement and Long-Term Management Plan consistent with Measure 9.3 below.	ITP Condition # 9.2	Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)	Permittee	
19	On-Site Habitat Enhancement Plan. The Permittee shall be responsible for submitting an On-Site Habitat Enhancement Plan to address an area of at least 0.07 acres. The plan shall be submitted to CDFW for written review and acceptance at least 30 days prior to the initiation of Covered Activities. The plan shall address revegetating all access routes, staging areas and areas of temporary impacts within Covered Species habitat. Areas that are shaded by the	ITP Condition # 9.3	30 days before commencing ground or vegetation activities	Permittee	

	bridge or unvegetated prior to construction do not require revegetation and shall only require contouring and grading to match pre-project conditions. All other applicable areas of barren soil or upland habitat shall be hydro-seeded or planted with native vegetation appropriate to the Project Site. The plan shall include a minimum of 50 liner feet of fascine bundles or willow structures. All on-site tree and woody vegetation plantings shall be subject to a ten-year monitoring period and 75% success criteria for survivorship. All hydro-seeding shall be monitored and compared utilizing before and after images to determine success. If hydro-seeding does not take hold within 6 months, additional applications shall be required. If any tree or woody vegetation plantings fail, additional plantings shall be required and additional years of monitoring shall be required in consultation with CDFW until the success criteria are achieved as noted above. All disturbed areas shall be monitored and controlled for invasive species rated as "High" by the California Invasive Plant Council's database, which is accessible at: <a href="https://www.cal-ipc.org/plants/inventory/">https://www.cal-ipc.org/plants/inventory/</a> . All locations shall be required to obtain a 10% or less ground cover percentage for species rated as "High" annually for five-years as specified in this Agreement. Reference site analysis and final approval of an enhancement site as having all obligations met may be accepted upon written request and written approval from CDFW. Alternative concepts for enhancement, such as land acquisition or permanent protection may be considered upon written request and written approval to CDFW. All temporary irrigation systems shall be removed upon completion of site enhancements or at such a time when supplemental watering is no longer required.				
20	On-Site Cross Channel Analysis. A qualified professional, such as a fluvial geomorphologist, hydraulic engineer, or other qualified professional shall be approved in advance by CDFW to conduct on site channel analysis. The qualified professional shall record cross sections from top of bank to top of bank a minimum of 30 days prior to Covered Activities at Kings Creek, as baseline. The survey shall document elevations obtained along the channel thalweg (lowest and deepest points) to accurately define the channel gradient through the Project Area at Kings Creek. Additionally, the post-construction survey shall document cross sections over a ten-year monitoring period (Year 0 = Baseline) at minimum 200 feet upstream and downstream of the bridge as access and permission shall allow. CDFW may approve a reduction in the survey timeline if significant changes are not observed in years following large channel-forming events. Surveys shall be implemented during the low water period. Survey information shall include analysis and documentation of streambed substrate and particle size analysis through the site using visual assessment in pools and a Wolman pebble count in riffles. All cross-section analysis results shall be provided as a sub-section of the On-Site Enhancement Plan Annual Monitoring Report.	ITP Condition # 9.3.2	Before commencing ground- or vegetation-disturbing activities	Permittee	
21	Post-Construction Longitudinal Profile. A qualified professional such as a fluvial geomorphologist, hydraulic engineer or qualified professional, shall collect a longitudinal profile following the proposed channel thalweg location at Kings Creek. This longitudinal profile shall be collected sufficiently upstream and downstream of the proposed Project conform locations at Kings Creek. CDFW may approve a reduction in the survey timeline if significant changes are not observed in years following large channel-forming events. Surveys shall be implemented during the low water period. The longitudinal profile shall survey over a ten-year monitoring period (Year 0 = Baseline) at minimum 200 feet upstream and downstream of the bridge as access and permission allow. The longitudinal profile analysis shall be provided as a sub-section of the On-Site Enhancement Plan Annual Monitoring Report.	ITP Condition # 9.3.3	Before commencing ground- or vegetation-disturbing activities/ Entire Project	Permittee	
22	On-Site Covered Species Monitoring. The Permittee shall be responsible for submission of an On-Site Covered Species Monitoring Plan that includes on-site streambank and riparian enhancement. The plan shall be submitted to CDFW for review and acceptance within a	ITP Condition # 9.3.4	Before commencing ground- or vegetation-	Permittee	

	<p>minimum of thirty days prior to the initiation of construction. The plan shall focus on the Covered Species and the utilization of proposed habitat enhancements through documentation of streambed substrate and particle size analysis using visual assessment in pools and a Wolman pebble count in riffles. Clean spawning-sized gravel (2- to 4-inch creek-run rock) shall be used for any gravel fill that is required for creek diversions. The Permittee shall remove fill material to the extent feasible during diversion removal; any rock that cannot be collected will be left in streambed to enhance covered-species habitat. Covered Species monitoring shall occur in conjunction with monitoring schedule in condition 9.3.1. CDFW may approve a reduction in the survey timeline depending on site conditions.</p>		disturbing activities/ Entire Project		
23	<p>Security: The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 9 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:</p> <p>Master Funding Agreement. Security for this ITP shall be governed by the Master Funding Agreement between the California Department of Fish and Wildlife and the California Department of Transportation, dated September 3, 2021.</p> <p>Funding Memorandum. Permittee has prepared and CDFW has approved, the project-specific Funding Memorandum required by the Master Funding Agreement and attached to this ITP as Attachment 3.</p> <p>Security Amount. The Security shall be in the amount of \$97,899.00. This amount is based on the cost estimates identified in Condition of Approval 9.1 above and the Funding Memorandum.</p> <p>Funding of the Child Expenditure Authorization (EA). Permittee has created and funded the Child EA with funds equivalent to the Security Amount.</p> <p>Compliance with the Master Funding Agreement. Permittee shall complete all requirements set forth in the Master Funding Agreement and shall at all times comply with the terms and conditions of that Agreement.</p> <p>Even if Security is provided, the Permittee must complete the required acquisition, protection and transfer of all HM lands and record any required conservation easements no later than 18 months from the effective date of this ITP. CDFW may require the Permittee to provide additional HM lands and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.</p>	ITP Condition # 10	Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)	Permittee	
<b>DURING CONSTRUCTION</b>					
24	<p>Construction Monitoring Documentation. The Designated Biologist(s) and Biological Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project site upon request by CDFW.</p>	ITP Condition # 6.5	Entire Project	Permittee	
25	<p>Dust Control. Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.</p>	ITP Condition # 6.7	Entire Project	Permittee	

26	Erosion Control Materials. Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species. Use of monofilament synthetic netting (erosion control matting) or similar material shall be prohibited within the Project Area.	ITP Condition # 6.8	Entire Project	Permittee	
27	Project Access. Project-related personnel shall access the Project Area using existing routes, or routes identified in the Project Description and shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.	ITP Condition # 6.11	Entire Project	Permittee	
28	Staging Areas. Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Condition of Approval 6.11 of this ITP.	ITP Condition # 6.12	Entire Project	Permittee	
29	Hazardous Waste. Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.	ITP Condition # 6.13	Entire Project	Permittee	
30	CDFW Access. Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.	ITP Condition # 6.14	Entire Project	Permittee	
31	Notification of Non-compliance. The Designated Representative shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.	ITP Condition # 7.2	Entire Project	Permittee	
32	<p>Compliance Monitoring. The Designated Biologist shall be on-site daily when Covered Activities occur including initial ground disturbance, vegetation removal or clearing, exclusionary fencing installation, concrete pours, concrete washouts, water diversion installation and water diversion removal. The Designated Biologist or Designated Representative (Approved in advance by CDFW) shall conduct compliance inspections each working day. The Designated Biologist or Designated Representative shall conduct compliance inspections to: (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of this ITP; (4) check all exclusion zones; and (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.</p> <p>The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP. The frequency of biological monitoring and reporting will be assessed on an ongoing basis and will depend on the nature of the activities being conducted.</p>	ITP Condition # 7.3	Entire Project	Permittee	

33	Monthly Compliance Report. The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 7.3 into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program. At the time of this ITP's approval, the CDFW Regional Representative is Robert Stanley, Senior Environmental Scientist (Specialist) (Robert.Stanley@wildlife.ca.gov) and Headquarters CESA Program email is CESA@wildlife.ca.gov. CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.	ITP Condition # 7.4	Entire Project	Permittee	
34	Annual Status Report. Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in Condition of Approval 7.4; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.	ITP Condition # 7.5	Entire Project	Permittee	
35	CNDDDB Observations. The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.	ITP Condition # 7.6	Entire Project	Permittee	
36	Notification of Take or Injury/Damage. Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured/damaged by a Project-related activity, or if a Covered Species is otherwise found dead or injured/damaged within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (707) 428-2002. Initial notification shall also be provided to the CDFW Regional Representative is Robert Stanley, Senior Environmental Scientist (Specialist), (707) 339-6534; (Robert.Stanley@wildlife.ca.gov). The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured/damaged and the ITP Number (2081-2022-012-03). Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury/damage, and any other pertinent information.	ITP Condition # 7.8	Entire Project	Permittee	
37	Take Minimization Measures: The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:	ITP Condition # 8	Entire Project	Permittee	

38	Seasonal Work Window and Weather. Permittee shall limit Covered Activities to the period between June 1 and October 15, unless otherwise authorized in writing by CDFW. Permittee shall monitor the National Weather Service 72-hour forecast for the Project Area. No Covered Activities shall occur during a rain event and in dry weather only within the Project Area. No Project activities will be started if the associated erosion control measures cannot be completed prior to the onset of precipitation. No Covered Activities shall occur if there is a 40 percent chance of precipitation or greater in the National Weather Service 72-hour forecast for the Project Area. Covered Activities may continue 24 hours after the rain ceases if there is less than a 40 percent chance of precipitation in the 24-hour forecast for the Project Area.	ITP Condition # 8.1	Entire Project	Permittee	
39	Time of Day Work Restriction. All Covered Activities that will clear, grub, remove existing unpaved features, excavate embankments, remove existing drainage features, construct new drainage features or excavate soil that is not covered by a paved area, shall terminate 30 minutes before sunset and shall not resume until 30 minutes after sunrise unless approved by the CDFW Representative in writing. The Permittee shall use sunrise and sunset times established by the U.S. Naval Observatory Astronomical Applications Department for determining when Covered Activities shall terminate and resume.	ITP Condition # 8.2	Entire Project	Permittee	
40	Daily Covered Species Checks. Before the start of work each day and throughout the course of the day as determined by the Designated Biologist, the Project Area shall be inspected for Covered Species as specified in Condition of Approval 8.7. Covered Species shall be removed by the Designated Biologist and translocated to a safe location as specified in Condition of Approval 8.7.	ITP Condition # 8.5	Entire Project	Permittee	
41	Permanent Lighting Prohibition. No new or replacement of existing permanent light sources are authorized under the terms of this ITP.	ITP Condition # 8.8	Entire Project	Permittee	
42	Temporary Lighting Avoidance and Minimization. All temporary Project lighting associated with construction staging areas, access routes and construction sites shall be shut down upon the completion of work each day and not used as security lighting overnight. Temporary Project lighting on the surface of the road shall be directed towards the road surface and shall not be directed into areas outside of the road surface to prevent additional light pollution and disruption of nocturnal wildlife activity. Baffles and various shading devices may be employed.	ITP Condition # 8.9	Entire Project	Permittee	
43	Spill Containment and Clean Up. Prior to entering the work site, all field personnel shall know the location of spill kits and trained in their appropriate use. All activities performed in or near a river, stream, or lake shall have absorbent materials designated for spill containment and cleanup activities on-site for use in an accidental spill. CDFW shall be notified by the Permittee within 24 hours of all spills and consulted regarding clean-up procedures.	ITP Condition # 8.11	Entire Project	Permittee	
44	On-Site Habitat Enhancement Plan Monitoring and Reporting. The Permittee shall submit an On-Site Habitat Enhancement Report to CDFW by December 31 over a ten-year period, as well as any additional years, as applicable. Annual monitoring will be submitted for years 1 through 5 and in Year 7 and 10. A reduction in monitoring and reporting may be authorized upon written request and approval from CDFW. The report shall include success criteria milestones. The report shall also include photos from designated photo stations, a summary of site conditions and a list of wildlife observed on site. The report shall also include a list of corrective actions that may be necessary to increase the probability of native plant recruitment or habitat improvement to the Project Area.	ITP Condition # 9.3.1	Entire Project	Permittee	

POST-CONSTRUCTION					
45	Refuse Removal. Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.	ITP Condition # 6.15	Post-Construction	Permittee	
46	Final Mitigation Report. No later than 60 days after completion of all Covered Activities, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.	ITP Condition # 7.7	Post-Construction	Permittee	



Department of Fish and Wildlife

**BIOLOGIST RESUME COVER SHEET**

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**SUBMIT EACH RESUME AS A SEPARATE DOCUMENT**

Number of Resumes Included in Transmittal: \_\_\_\_\_

Name	Requested Role(s) <sup>1</sup>	Species/Resource(s)

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<sup>1</sup> Requested roles correspond to the biological staffing requirements indicated in the Lake and Streambed Alteration (LSA) Agreement or California Endangered Species Act Incidental Take Permit (ITP). Roles may include a "Qualified Biologist" or "Designated Biologist" with the necessary experience to survey for special status species, or a "Biological Monitor" with the necessary experience to monitor construction activities for special status species. An individual may request more than one role.



Department of Fish and Wildlife

**BIOLOGIST RESUME FORM**

*This form requests information about the qualifications of the Qualified Biologist, Designated Biologist and Biological Monitor specified in California Endangered Species Act Incidental Take Permits (ITP) and Lake or Streambed Alteration (LSA) Agreements issued by California Department of Fish and Wildlife (CDFW).*

**Completing this form will ensure the receipt of adequate information and expedite CDFW review of qualifications.**

**SECTION I. NAME AND CONTACT INFORMATION**

Name:		Title:	
Company Name & Address:		Phone:	
		Email:	

**SECTION II. EDUCATION**

College/University & Degree Type Related to Natural Resource Science:	
Other Relevant Workshops & Training:	

**SECTION III. ROLE(S) AND PERMIT REQUIREMENTS**

Requested Role(s):	
Relevant LSA Agreement Measures or ITP Conditions <sup>2</sup> :	

**SECTION IV. SPECIES AND RESOURCE EXPERIENCE – SUMMARY**

*This section summarizes experience by special status species and other resource. Use one row for each species or other resource where surveys or special protections are required in the CESA ITP or LSA Agreement for which biologist approval is requested.<sup>3</sup> If more space is needed, add rows to this table. Provide details in Section 5.*

Species or Resource	Number of Field Seasons & Hours, Life Stages Observed <i>Provide project details in Section 5</i>	Life History Knowledge <i>Describe formal workshops &amp; training with dates, or informal training details</i>	CDFW SCP, MOU, & USFWS 10a1a Authorization Number & Authorized Activities <i>This form does not fulfill SCP, MOU, &amp; USFWS 10a1a reporting requirements</i>
Insert Species or Resource 1	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:
Insert Species or Resource 2	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:
Insert Species or Resource 3	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:

<sup>2</sup> List all measures and conditions from the LSA Agreement or ITP requiring biological staff (i.e., Qualified Biologist, Designated Biologist, or Biological Monitor).

<sup>3</sup> Often LSA Agreements/ITPs require surveys and other protections for multiple species and other resources. Include only those for which the biologist has experience and is requesting approval.

**SECTION V. SPECIES AND RESOURCE EXPERIENCE – DETAILS**

*This section details experience from the three most recent and relevant projects for each species and resource identified in Section 4. If more space is needed, attach additional pages in the same table format (i.e., copy/paste format).*

<b>A. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s) <sup>4</sup> :	
Survey Type(s) <sup>5</sup> :		Construction Monitoring <sup>6</sup> :	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB <sup>7</sup> (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:

<sup>4</sup> Insert the role as described in the associated LSA Agreement, ITP or other agency permit. If these permits were not issued, describe the role based on the duties, e.g., "lead biologist with handling authorization" or "biological monitor."

<sup>5</sup> For example, pre-construction survey or description of the protocol or guideline followed.

<sup>6</sup> Include the number of days and describe the types of activities monitored (e.g., heavy equipment operation).

<sup>7</sup> CNDDDB is the abbreviation for California Natural Diversity Database.

Project Name:

LSA Agreement/ITP Number(s):

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			

<b>B. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:

Project Name:

LSA Agreement/ITP Number(s):

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			

<b>C. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:

**Project Name:****LSA Agreement/ITP Number(s):**

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			

## EXHIBIT B TO MASTER FUNDING

### AGREEMENT FUNDING

### MEMORANDUM

1. Name of Project: San Lorenzo River Bridge and Kings Creek Bridge Replacement Project
2. Brief Description of the Project: The project proposes to replace the San Lorenzo River and Kings Creek Bridges on State Route 9, in Santa Cruz County.
3. Incidental Take Permit Number or Consistency Determination Number:

The San Lorenzo ITP - 2081-2022-011-03

The Kings Creek ITP - 2081-2022-012-03

4. CALTRANS parent project EA and program funding source: 05-1H470
5. CALTRANS Child EA and program funding source: 05-1H471, SHOPP
6. Estimated costs of Mitigation (including monitoring):

San Lorenzo Bridge: **\$104,775.00.**

Kings Creek Bridge: **\$97,899.00**

**Total: \$202,674**

7. Total amount for security (combined total of estimated costs of Mitigation and Monitoring): **\$202,674**

The funds for this project have been currently budgeted and allocated, for the project as described above. The funds that have been allocated for mitigation and monitoring will not be re-allocated to another element of the project or expended for any purpose other than completing the mitigation and monitoring requirements.

Signature Jennifer Moonjian

Date 6/3/2022

**Instruction:** This form is to be transmitted by CALTRANS to CDFW with each application for an incidental take permit under Fish and Game Code section 2081, and with each request for a Consistency Determination under Fish and Game Code section 2080.1. CALTRANS personnel who signs permit shall also sign this form.