



**COUNTY OF MENDOCINO**  
**DEPARTMENT OF PLANNING AND BUILDING SERVICES**

860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482  
 120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

IGNACIO "NASH" GONZALEZ, INTERIM DIRECTOR  
 JULIA ACKER KROG, ASSISTANT DIRECTOR  
 TELEPHONE: 707-234-6650  
 FAX: 707-463-5709  
 FB PHONE: 707-964-5379  
 FB FAX: 707-961-2427  
 pbs@mendocinocounty.org  
 www.mendocinocounty.org/pbs

August 2, 2021

Department of Transportation  
 Environmental Health - Ukiah/Fort Bragg  
 Building Inspection - Fort Bragg  
 Mendocino Land Trust  
 Assessor  
 Agriculture Commissioner  
 Air Quality Management  
 Archaeological Commission  
 Sonoma State University

Resource Lands Protection Committee  
 Native Plant Society  
 Caltrans  
 Department of Forestry/ CalFire  
 -Resource Management  
 -Land Use  
 Department of Fish and Wildlife  
 Coastal Commission  
 California Highway Patrol

RWQCB  
 Sierra Club  
 US Fish & Wildlife Service  
 Cloverdale Rancheria  
 Redwood Valley Rancheria  
 Sherwood Valley Band of Pomo Indians  
 Mendocino Transit Authority (MTA)  
 County Addresser- Russ Ford  
 Albion – Little River Fire District

**CASE#:** CDP\_2019-0024

**DATE FILED:** 7/1/2019

**OWNER/ APPLICANT:** California Department of Transportation (CALTRANS), District

**AGENT:** Frank Demling

**REQUEST:** A Standard Coastal Development Permit to widen existing lanes on Highway 1 within the project area to 12 feet, widen the existing shoulders in both directions to 4 feet, install a Midwest Guardrail System (MGS), improve the superelevation (rate, transition, and runoff), and remove trees. Work will also involve installing two new culverts, replacing four existing culverts, removing one culvert, extending one box culvert, installing five new drainage inlets (DIs), replacing three DIs, and removing 2 slot drains. In addition, Rock Slope Protection (RSP) will be placed at six outlet locations.

**LOCATION:** Within the Coastal Zone along Highway 1 just south of its intersection with Navarro Ridge Road (County Road 518), between postmiles MEN-001-41.8 and -42.3. (No specific address given)

**SUPERVISORIAL DISTRICT:** 5

**STAFF PLANNER:** JULIA ACKER

**RESPONSE DUE DATE:** August 16, 2021

**PROJECT INFORMATION CAN BE FOUND AT:**

[www.mendocinocounty.org](http://www.mendocinocounty.org)

Select "Government" from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to [pbs@mendocinocounty.org](mailto:pbs@mendocinocounty.org). Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

- No comment at this time.
- Recommend conditional approval (attached).
- Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
- Recommend denial (Attach reasons for recommending denial).
- Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
- Other comments (attach as necessary).

**REVIEWED BY:**

Signature \_\_\_\_\_ Department \_\_\_\_\_ Date \_\_\_\_\_

**CASE: CDP\_2019-0024**

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**OWNER:** Multiple (see attached)

**APPLICANT:** Caltrans

**AGENT:** Frank Demling  
California Department of Transportation  
1656 Union Street  
Eureka, CA 95501  
707-445-6554

**REQUEST:** A Standard Coastal Development Permit to widen existing lanes on Highway 1 within the project area to 12 feet, widen the existing shoulders in both directions to 4 feet, install a Midwest Guardrail System (MGS), improve the superelevation (rate, transition, and runoff), and remove trees. Work will also involve installing two new culverts, replacing four existing culverts, removing one culvert, extending one box culvert, installing five new drainage inlets (DIs), replacing three DIs, and removing 2 slot drains. In addition, Rock Slope Protection (RSP) will be placed at six outlet locations.

**LOCATION:** Within the Coastal Zone along Highway 1 just south of its intersection with Navarro Ridge Road (County Road 518), between post-miles MEN-001-41.8 and -42.3. (No specific address given)

**APN/S:** Multiple – See attached parcel map

**PARCEL SIZE:** Variable (right-of-way)

**GENERAL PLAN:** RR5-PD / RMR40

**ZONING:** RR5:PD / RMR

**EXISTING USES:** Roadway (adjacent uses include agricultural and rural residential uses)

**DISTRICT:** District 5 (Williams)

**RELATED CASES:** CDP 2019-0034

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	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES (ac)</u>	<u>ADJACENT USES</u>
<b>NORTH:</b>	RR5-DL-PD	RR5:DL:PD	15.07 / 6	Rural Residential
<b>EAST:</b>	RR5-PD	RR5:PD	6.02, 6.02, 3.06, 3.04, 6.22, 6.04, 3.3, 3.29, 15.07,	Rural Residential
<b>SOUTH:</b>	RMR / RR5-PD	RMR / RR5:PD	38, 6.02	Rural Residential
<b>WEST:</b>	RMR	RMR	6, 13, 17.29, 38	Rural Residential / Public Access

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**REFERRAL AGENCIES**

**LOCAL**

- Agricultural Commissioner
- Air Quality Management District
- Airport Land Use Commission
- Archaeological Commission
- Assessor's Office
- Building Division (Fort Bragg)
- County Addresser
- Department of Transportation (DOT)
- Environmental Health (EH)
- Albion-LR Fire District
- Mendocino Transit Authority (MTA)

- Resource Lands Protection Com.
- Sonoma State University
- Mendocino Land Trust

**STATE**

- CALFIRE (Land Use)
- CALFIRE (Resource Management)
- California Coastal Commission
- California Dept. of Fish & Wildlife
- California Highway Patrol
- California Native Plant Society
- California State Clearinghouse

CALTRANS

- Regional Water Quality Control Board
- Sierra Club

**FEDERAL**

- US Department of Fish & Wildlife

**TRIBAL**

- Cloverdale Rancheria
- Redwood Valley Rancheria
- Sherwood Valley Band of Pomo Indians

**ADDITIONAL INFORMATION:**

The application materials include several documents related to compliance with LCP ESHA requirements, including an ESHA Analysis, Natural Environment Study and ESHA Compliance Report. Caltrans filed a CEQA Notice of Exemption (SC #2019038511) as lead agency on this project for the purposes of environmental review.

**STAFF PLANNER:** SCOTT PERKINS (CONTRACT)  
JULIA KROG (ASSISTANT DIRECTOR PBS)

**DATE:** 7/30/2021

## ENVIRONMENTAL DATA

### **1. MAC:**

GIS  
N/A

### **2. FIRE HAZARD SEVERITY ZONE:**

CALFIRE FRAP maps/GIS  
*Moderate and High FHSZs*

### **3. FIRE RESPONSIBILITY AREA:**

CALFIRE FRAP maps/GIS  
*Albion-Little River FPD*

### **4. FARMLAND CLASSIFICATION:**

GIS  
*Rural Residential and Grazing*

### **5. FLOOD ZONE CLASSIFICATION:**

FEMA Flood Insurance Rate Maps (FIRM)  
N/A

### **6. COASTAL GROUNDWATER RESOURCE AREA:**

Coastal Groundwater Study/GIS  
*Critical Water Area*

### **7. SOIL CLASSIFICATION:**

Mendocino County Soils Study Eastern/Western Part  
*Soil Classes 117 and 139. See enclosed Soil Classification Maps*

### **8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:**

LCP maps, Pygmy Soils Maps; GIS  
N/A

### **9. WILLIAMSON ACT CONTRACT:**

GIS/Mendocino County Assessor's Office  
*Adjacent and to the north of right-of-way*

### **10. TIMBER PRODUCTION ZONE:**

GIS  
N/A

### **11. WETLANDS CLASSIFICATION:**

GIS  
*Yes—see enclosed Wetlands Maps*

### **12. EARTHQUAKE FAULT ZONE:**

Earthquake Fault Zone Maps; GIS  
N/A

### **13. AIRPORT LAND USE PLANNING AREA:**

Airport Land Use Plan; GIS  
N/A

### **14. SUPERFUND/BROWNFIELD/HAZMAT SITE:**

GIS; General Plan 3-11  
N/A

### **15. NATURAL DIVERSITY DATABASE:**

CA Dept. of Fish & Wildlife Rarefind Database/GIS  
*See enclosed maps as applicable.*

### **16. STATE FOREST/PARK/RECREATION AREA ADJACENT:**

GIS; General Plan 3-10  
N/A

### **17. LANDSLIDE HAZARD:**

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44  
*N/A—See enclosed Natural Hazards Maps*

### **18. WATER EFFICIENT LANDSCAPE REQUIRED:**

Policy RM-7; General Plan 4-34  
N/A

### **19. WILD AND SCENIC RIVER:**

[www.rivers.gov](http://www.rivers.gov) (Eel Only); GIS  
N/A

### **20. SPECIFIC PLAN/SPECIAL PLAN AREA:**

Various Adopted Specific Plan Areas; GIS  
N/A

### **21. STATE CLEARINGHOUSE REQUIRED:**

Policy  
*No*

### **22. OAK WOODLAND AREA:**

USDA  
N/A

### **23. HARBOR DISTRICT:**

Sec. 20.512  
N/A

## **FOR PROJECTS WITHIN THE COASTAL ZONE ONLY**

### **24. LCP LAND USE CLASSIFICATION:**

LCP Land Use maps/GIS  
*Various*

### **25. LCP LAND CAPABILITIES & NATURAL HAZARDS:**

LCP Land Capabilities maps/GIS; 20.500  
*See enclosed maps*

### **26. LCP HABITATS & RESOURCES:**

LCP Habitat maps/GIS; 20.496  
*See enclosed maps*

### **27. COASTAL COMMISSION APPEALABLE AREA:**

Post LCP Certification Permit and Appeal Jurisdiction maps/GIS; 20.544  
*Yes—see enclosed maps*

### **28. CDP EXCLUSION ZONE:**

CDP Exclusion Zone maps/GIS  
*No—see enclosed maps*

### **29. HIGHLY SCENIC AREA:**

Highly Scenic & Tree Removal Area Maps/GIS; Secs. 20.504.015, 20.504.020  
*Yes—see enclosed maps*

### **30. BIOLOGICAL RESOURCES & NATURAL AREAS:**

Biological Resources & Natural Area Map; GIS; General Plan 4-9  
*Yes—see enclosed maps*

### **31. BLUFFTOP GEOLOGY:**

GIS; 20.500.020  
*Non-blufftop*

**DEPARTMENT OF TRANSPORTATION**

NORTH REGION ENVIRONMENTAL  
DISTRICT 1, PO BOX 3700  
EUREKA, CA 95502-3700  
PHONE (707) 441-4564  
FAX (707) 441-5775  
TTY 711



*Making Conservation  
a California Way of Life.*

June 26, 2019

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

Dear Ms. Acker-Krog:

Enclosed is an application to Mendocino County Planning and Building for a Coastal Development Permit for the California Department of Transportation's Navarro Ridge Safety project. Per a conversation I had with Derek Larson on June 26, 2019, we have included only 2 complete application packets.

The California Department of Transportation (Caltrans) proposes to make safety improvements and perform drainage rehabilitation on ½ mile of State Route (SR)1 between post miles (PM) 41.8 and 42.3 in Mendocino County just south of Navarro Ridge Road. Caltrans is requesting a Coastal Development Permit from Mendocino County in order to proceed with the completion of this project.

Enclosed for your review are the following items:

- Application Form and Initial Site and Project Description Questionnaire (2 copies)
- Project Description Continuation Pages, including Vicinity Map & Site Plan (2 copies)
- Signed Certification and Site View Authorization Form (1 copy)
- Coastal Zone Development Form with Stamped, Legal Size Envelopes Addressed to Owners
- Signed Declaration of Posting with Pictures
- Signed Indemnification and Hold Harmless Form (1 copy)
- Natural Environment Study Addendum and Original (Appendix A), dated November 2018 and September 2017, respectively (2 copies)
- Environmentally Sensitive Habitat Area Assessment (Appendix B), dated June 20, 2019 (2 copies)
- Signed CEQA Categorical Exemption and NEPA Categorical Exclusion (Appendix C), dated March 2019 (2 copies)
- Stamped Notice of Exemption (Appendix C) dated March 2019 (2 copies)
- Filing Fee of \$6,286.55 for processing of the Coastal Development Permit

If you have any questions or need additional information, please contact me at (707)441-4564. Thank you for your continued assistance in expediting the permit for this project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stephen Umbertis'.

Stephen Umbertis  
Associate Environmental Planner

**RECEIVED**

JUL 01 2019

PLANNING & BUILDING SERV  
FORT BRAGG CA

**COUNTY OF MENDOCINO**  
**DEPT OF PLANNING AND BUILDING SERVICES**  
 120 WEST FIR STREET  
 FORT BRAGG, CA 95437  
 Telephone: 707-964-5379  
 FAX: 707-961-2427  
 pbs@co.mendocino.ca.us  
 www.co.mendocino.ca.us/planning



Case No(s)	CDP 2019-0024
CDF No(s)	
Date Filed	July 1, 2019
Fee	
Receipt No.	
Received by	
Office Use Only	

**COASTAL ZONE APPLICATION FORM** RECEIVED

JUL 01 2019

PLANNING & BUILDING SERV  
FORT BRAGG CA

**APPLICANT**

Name Department of Transportation, District 1  
 Mailing Address 1656 Union Street  
 City Eureka State CA Zip Code 95501 Phone (707)441-5602

**PROPERTY OWNER**

Name Same as Applicant  
 Mailing Address Same as Applicant  
 City Same as Applicant State Same as Applicant Zip Code Same as Applicant Phone Same as Applicant

**AGENT**

Name Frank Demling  
 Mailing Address 1656 Union Street  
 City Eureka State CA Zip Code 95501 Phone (707)445-6554

**PARCEL SIZE**

NA  Square feet  
 Acres

**STREET ADDRESS OF PROJECT**

Highway 1 from Post Mile 41.80 to 42.30

**ASSESSOR'S PARCEL NUMBER(S)**

\_\_\_\_\_

I certify that the information submitted with this application is true and accurate.

Signature of Applicant/Agent *[Signature]* Date 6/27/19  
 Signature of Owner \_\_\_\_\_ Date \_\_\_\_\_

# COASTAL ZONE - SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Planning and Building Services Department and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project, please indicate "Not Applicable" or "N/A".

## THE PROJECT

1. Describe your project and include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc.

Caltrans proposes to make safety improvements in order to reduce the number and severity of collisions by improving roadway geometry, increasing shoulder width in both the travel directions, installing rumble strips, and installing a Midwest Guardrail System. Work will also include installing four new culverts, replacing three existing culverts, installing nine new drainage inlets (DIs), removing nine DIs, and extending 5 culverts.

Widening the shoulders will involve the excavation of existing material on the east side of Hwy 1 and placement of a new structural section. A complete project description is attached to this application form, which includes the Vicinity Map and Site Plan for the project.

2. If the project is residential, please complete the following:

TYPE OF UNIT	NUMBER OF STRUCTURES	SQUARE FEET PER DWELLING UNIT
<input type="checkbox"/> Single Family	N/A _____	_____
<input type="checkbox"/> Mobile Home	N/A _____	_____
<input type="checkbox"/> Duplex	N/A _____	_____
<input type="checkbox"/> Multifamily	N/A _____	_____

If Multifamily, number of dwelling units per building: \_\_\_\_\_

3. If the project is commercial, industrial, or institutional, complete the following:

Total square footage of structures:	N/A _____
Estimated employees per shift:	N/A _____
Estimated shifts per day:	N/A _____
Type of loading facilities proposed:	N/A _____

4. Will the proposed project be phased?  Yes  No  
If Yes, explain your plans for phasing.

5. Are there existing structures on the property?  Yes  No  
 If yes, describe below and identify the use of each structure on the plot plan.

6. Will any existing structures be demolished?  Yes  No  
 Will any existing structures be removed?  Yes  No  
 If yes to either question, describe the type of development to be demolished or removed, including the relocation site, if applicable.

7. Project Height. Maximum height of structure N/A feet.

8. Lot area (within property lines): N/A  square feet  acres

9. Lot Coverage:

	EXISTING	NEW PROPOSED	TOTAL
Building coverage	<u>N/A</u> square feet	<u>          </u> square feet	<u>          </u> square feet
Paved area	<u>N/A</u> square feet	<u>          </u> square feet	<u>          </u> square feet
Landscaped area	<u>N/A</u> square feet	<u>          </u> square feet	<u>          </u> square feet
Unimproved area	<u>N/A</u> square feet	<u>          </u> square feet	<u>          </u> square feet
GRAND TOTAL:			<u>          </u> square feet
(Should equal gross area of parcel)			

10. Gross floor area: N/A square feet (including covered parking and accessory buildings).

11. Parking will be provided as follows:

Number of Spaces	Existing <u>N/A</u>	Proposed <u>N/A</u>	Total <u>N/A</u>
Number of covered spaces	<u>N/A</u>	<u>          </u>	Size <u>          </u>
Number of uncovered spaces	<u>N/A</u>	<u>          </u>	Size <u>          </u>
Number of standard spaces	<u>N/A</u>	<u>          </u>	Size <u>          </u>
Number of handicapped spaces	<u>N/A</u>	<u>          </u>	Size <u>          </u>

12. Utilities will be supplied to the site as follows:

A. Electricity

- Utility Company (service exists to the parcel).  
 Utility Company (requires extension of services to site: \_\_\_\_\_ feet \_\_\_\_\_ miles)  
 On Site generation, Specify: \_\_\_\_\_  
 None

B. Gas

- Utility Company/Tank  
 On Site generation, Specify: \_\_\_\_\_  
 None

C. Telephone:  Yes  No

13. Will there be any exterior lighting?  Yes  No

If yes, describe below and identify the location of all exterior lighting on the plot plan and building plans.

14. What will be the method of sewage disposal?

- Community sewage system, specify supplier \_\_\_\_\_  
 Septic Tank  
 Other, specify N/A

15. What will be the domestic water source?

- Community water system, specify supplier \_\_\_\_\_  
 Well  
 Spring  
 Other, specify N/A

16. Is any grading or road construction planned?  Yes  No

If yes, grading and drainage plans may be required. Also, describe the terrain to be traversed (e.g., steep, moderate slope, flat, etc.).

Rolling to moderately steep terrain. Road will be widened to the east, mostly through additional slopes, with some fill proposed.

For grading and road construction, complete the following:

- A. Amount of cut: 6766 cubic yards  
B. Amount of fill: 3462 cubic yards  
C. Maximum height of fill slope: 20 feet  
D. Maximum height of cut slope: 30 feet  
E. Amount of import or export: export 3304 cubic yards  
F. Location of borrow or disposal site: Per Caltrans contract rules, exported materials below 10,000 cubic yards are the responsibility

of the contractor. The contractor will be responsible for removal and disposal of excess fill material, and compliance with all laws and regulations



17. Will vegetation be removed on areas other than the building sites and roads?  Yes  No  
 If yes, explain:  
 Approximately 65 trees (total) will be removed from locations on both sides of the existing road to accommodate the proposed road widening. These trees are in questionable health, with a number of them appearing dead. More detail is provided in the attached Project Description, NES, and ESHA report. The trees are growing in a line along the shoulders of the road and do not constitute a stand that provides essential habitat or that could be classified as an ESHA.

18. Does the project involve sand removal, mining or gravel extraction?  Yes  No  
 If yes, detailed extraction, reclamation and monitoring may be required.

19. Will the proposed development convert land currently or previously used for agriculture to another use?  Yes  No  
 If yes, how many acres will be converted? \_\_\_\_\_ acres (An agricultural economic feasibility study may be required.)

20. Will the development provide public or private recreational opportunities?  Yes  No  
 If yes, explain:

21. Is the proposed development visible from:  
 A. State Highway 1 or other scenic route?  Yes  No  
 B. Park, beach or recreation area?  Yes  No  
 The proposed project would widen Hwy 1 at the stated location. The Mendocino Land Trust owns a public access area across SR No 1 from the southern end of the project area.

22. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?  Yes  No  
 If yes, explain:

23. Does the development involve diking, filling, dredging or placing structures in open coastal waters, wetlands, estuaries or lakes?  
 A. Diking  Yes  No  
 B. Filling  Yes  No  
 C. Dredging  Yes  No  
 D. Placement of structures in open coastal waters, wetlands, estuaries or lakes  Yes  No  
 Amount of material to be dredged or filled? \_\_\_\_\_ cubic yards.  
 Location of dredged material disposal site: \_\_\_\_\_  
 Has a U.S. Army Corps of Engineers permit been applied for?  Yes  No

If you need additional room to answer any question, attach additional sheets.

### COASTAL ZONE DEVELOPMENT

COMPLETE FOR PROJECTS LOCATED IN THE COASTAL ZONE ONLY

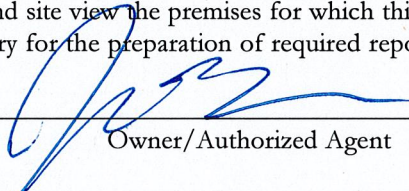
List all property owners within 300 feet, and occupants within 100 feet along with the corresponding Assessor's Parcel Number for each owner/occupant. **This form must be typed.**

<b>AP# 000-000-00</b> <b>LASTNAME, FIRSTNAME</b> <b>STREET ADDRESS</b> <b>CITY, STATE ZIP</b>		
123-320-05 Michael Garrison PO Box 727 Albion, CA, 95410		
123-320-003, 123-310-14, 123-310-13 Douglas and Stephanie Bliss PO Box 744 Albion, CA 95410		
123-310-02, 126-010-01 Mendocino Land Trust PO Box 1094 Mendocino, CA 95460		
123-310-06 Beverly Witchner PO Box 610 Albion, CA 95410		
126-010-03, 126-010-05 Van L Phillips PO Box 2370 Borrego Springs, CA 92004		
123-310-007 Robbie Robinson PO Box 846 Albion, CA 95410		
123-310-16 Frank and Beverly Engelhardt PO Box 851 Albion, CA 95410		
123-310-015 Gregory and Ramona Weil 442 Stilson Canyon Rd Chico, CA 95928		

SUBMIT ONLY ONE COPY

## CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.
2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.

  
\_\_\_\_\_  
Owner/Authorized Agent

6/27/19  
\_\_\_\_\_  
Date

NOTE: IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

### AUTHORIZATION OF AGENT

I hereby authorize \_\_\_\_\_ to act as my representative and to bind me in all matters concerning this application.

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Date

## MAIL DIRECTION

To facilitate proper handling of this application, please indicate the names and mailing addresses of individuals to whom you wish correspondence and/or staff reports mailed if different from those identified on Page One of the application form.

Name	Name	Name
Mailing Address	Mailing Address	Mailing Address

**SUBMIT ONLY ONE COPY**

**INDEMNIFICATION AND HOLD HARMLESS**

ORDINANCE NO. 3780, adopted by the Board of Supervisors on June 4, 1991, requires applicants for discretionary land use approvals, to sign the following Indemnification Agreement. Failure to sign this agreement will result in the application being considered incomplete and withheld from further processing.

**INDEMNIFICATION AGREEMENT**

As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County of Mendocino, its agents, officers, attorneys, employees, boards and commissions, as more particularly set forth in Mendocino County Code Section 1.04.120, from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or adoption of the environmental document which accompanies it. The indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the County, its agents, officers, attorneys, employees, boards and commissions.

Date: 6/27/19

  
Applicant

**COMPLETE FOR PROJECTS  
LOCATED WITHIN THE  
COASTAL ZONE ONLY**

**DECLARATION OF POSTING**

At the time the application is submitted for filing, the applicant must **Post**, at a conspicuous place, easily read by the public and as close as possible to the site of the proposed development, notice that an application for the proposed development has been submitted. Such notice shall contain a general description of the nature of the proposed development and shall be on the standard form provided in the application packet. If the applicant fails to post the completed notice form and sign the **Declaration of Posting**, the Department of Planning and Building Services cannot process the application.

As **Proof of Posting**, please sign and date this Declaration of Posting form when the site is posted; it serves as proof of posting. It should be returned to the Department of Planning and Building Services with the application.

Pursuant to the requirements of Section 20.532.025(H) of the Mendocino County Code, I hereby certify that on \_\_\_\_\_ (date of posting), I or my authorized representative posted the "NOTICE OF PENDING PERMIT" for application to obtain a Coastal Development Permit for the development of:

Caltrans is proposing to widen the travel lanes to 12 feet and shoulders to 4 feet, as well as improve 8 culverts and drainage inlets and outlets.

The project will require the removal of 65 small to medium trees lining both sides of the road.

(Description of development)

Located at:

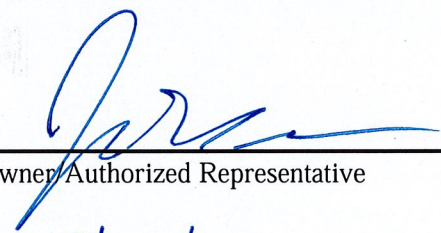
Highway 1 at Navarro Ridge Road, Post Mile 41.8 - 42.3

(Address of development and Assessor's Parcel Number)

The public notice was posted at:

Albion Post Office, Albion Store, Elk Store,

(A conspicuous place, easily seen by the public and as close as possible to the site of proposed development)

  
\_\_\_\_\_  
Owner/Authorized Representative

6/27/19  
\_\_\_\_\_  
Date

(A copy of the notice which was posted shall be attached to this form).

**NOTE:** YOUR APPLICATION CANNOT BE PROCESSED UNTIL THIS "DECLARATION OF POSTING" IS SIGNED AND RETURNED TO PLANNING AND BUILDING SERVICES.

# NOTICE OF PENDING PERMIT

**A COASTAL PERMIT APPLICATION FOR DEVELOPMENT ON THIS SITE IS PENDING BEFORE THE COUNTY OF MENDOCINO**

**PROPOSED DEVELOPMENT:** The proposed project would make safety improvements and perform drainage rehabilitation on State Route 1 (SR 1). The project is being proposed to reduce the number and severity of collisions by improving roadway geometry, increasing shoulder widths to current standards, and installing rumble strips and a Midwest Guardrail System (MGS). Shoulder widening and edgeline rumble strips are needed to provide a recovery area for errant vehicles and reduce the frequency of these types of accidents. The existing shoulders are 0 feet in width. Work would include widening both lanes to 12 feet, widening both road shoulders to 4 feet, and improving the super elevation of the road surface to current standards. There are 7 culverts within the project limits including one 6-foot box culvert. The proposed work includes installing four new culverts, replacing three existing culverts, installing nine new drainage inlets (DIs), removing nine existing DIs, and extending 5 culverts. An additional 2 feet of widening beyond the new inboard shoulder has been included in the project to provide space for a new inboard ditch to carry storm water to the replaced culverts in the project area.

**LOCATION:** State Route 1 between post miles (PM) 41.8 and 42.3 in Mendocino County, just south of Navarro Ridge Road

**APPLICANT:** California Department of Transportation, District 1, Eureka CA

**ASSESSOR PARCEL NUMBER(S):** 123-320-05, 123-320-003, 123-310-14, 123-310-13, 123-310-02, 126-010-01, 123-310-06, 126-010-03, 126-010-05, 123-310-007, 123-310-16, 123-310-015

**DATE POSTED:**

FOR FURTHER INFORMATION, PLEASE TELEPHONE OR WRITE TO:

COUNTY OF MENDOCINO  
PLANNING AND BUILDING SERVICES  
860 NORTH BUSH STREET  
UKIAH, CA 95482

707-234-6650

## **01-0C550 Navarro Ridge Safety Improvement Project PM 41.8/42.3**

### **Project Description**

The California Department of Transportation (Department) is proposing to improve the safety of State Route (SR) 1 from 1.5 miles north of the junction of SR 128 and SR 1 to 0.1 mile south of Navarro Ridge Road, in Mendocino County, near Albion.

Caltrans District 1 Traffic Safety Office initiated the subject project in response to a high incidence of run-off-road collisions. A subsequent review of the collision history indicated that shoulder widening would address the run-off-road collisions by providing recovery area when a vehicle is leaving the traveled way. The project also includes replacing the centerline rumble strip as an audible warning to vehicles when encroaching into opposing traffic.

This segment of highway has an actual Fatal collision rate of 18.6 times the Statewide Average (SWA) for similar facilities, an actual Fatal + Injury (F+I) collision rate of 2.0 times the SWA for similar facilities, and actual total collision rate of 1.5 times the SWA for similar facilities. During the most recent 3-year period for which the information is available (January 1, 2016 to December 31, 2018), 3 collisions were reported for the highway segment from PM 41.8 to PM 42.3. The predominant movement preceding collision was run-off-road. There is a need to reduce the frequency of run-off-road collisions within this highway segment

Within the project limits, the facility is a two-lane conventional highway on rolling terrain with 11.5 to 12-foot lanes and 0- to 1-foot shoulders. The posted speed limit is 55 miles per hour. The adjacent land uses are low-density residential and open space rangeland. The project location overlooks the Pacific Ocean, which lies approximately 1,000 feet to the west. A coastal access trail and a public parking area are present within the project limits. The driveway to the coastal access parking area managed by Mendocino Land Trust is across the highway from a private driveway.

There are eight culverts within the project limits, including one 6-foot box culvert at PM 41.79, previously used for livestock, that would be extended 10.5 feet to the west and 5.5 feet to the east to ensure it continues to function as a wildlife crossing following the proposed shoulder widening at this location. The wildlife crossing will be the pathway to the box culvert/wildlife crossing openings will be enhanced by clearing a small path in the coyote brush scrub upslope and downslope of the culvert and imitate the natural ground by placing native material along base of box culvert. A center-line rumble strip is present throughout this segment (i.e., SR 1 from PM 41.8 to PM 42.3).

Existing horizontal curves do not meet standard radii at several locations throughout the project limits. The project proposes to widen the existing lanes to 12 feet, widen the

existing shoulders in both directions to 4 feet, install a Midwest Guardrail System (MGS), improve the superelevation (rate, transition, and runoff), and remove trees. Work will also involve installing two new culverts, replacing four existing culverts, removing one culvert, extending one box culvert, installing five new drainage inlets (DIs), replacing three DIs, and removing 2 slot drains. In addition, Rock Slope Protection (RSP) will be placed at six outlet locations.

The construction of the new shoulders will involve the excavation of existing material and the placement of a new structural section. The structural section will consist of 1.30 feet of class 2 aggregate base, 0.40 foot of hot mix asphalt (type A), and 0.08 foot of bonded wearing course (BWC-G). The BWC-G layer will help seal longitudinal pavement joints and provide a good surface for receiving new striping. A layer of geosynthetic pavement interlayer (GPI) will be used at the pavement joint where the new structural section meets the existing pavement.

The new MGS installed from PM 42.11 to PM 42.30 will include both standard sections and 7-foot post segments in narrow roadway locations. Also, a new Omit One Post (MGS) will be installed from PM 41.78 to PM 41.80 to span the inlet and outlet of the 6-foot box culvert on both sides of SR 1. The MGS to be installed within the project limit will be treated with a light-brown stain to reduce glare and to blend the MGS into the visual character of the natural landscape.

Erosion has been occurring below the culvert outlet at PM 42.11. To prevent further erosion at this location, which could compromise the highway; the existing downdrain, which is failing, will be removed and replaced with a new downdrain and RSP. The existing culvert at this location, which is also failing, will be replaced.

The existing cut bank on the east side of SR 1 will be laid back to provide adequate space for the proposed widening. Final cut slopes will not be steeper than 1.1:1 and final fill slopes will not be steeper than 1.4:1. Cut slope heights will be a maximum of 52 feet and fill slope heights will be a maximum of 16 feet. Of the approximately 14,075 cubic yards of material removed from the cut banks, up to 3858 cubic yards would be used to provide fill for the structural section and shoulder extension on the west side of the road. Approximately 10,217 cubic yards of excess material would be hauled off site to an approved disposal site under the responsibility of the contractor. Below many of the existing cut slopes, an inboard ditch carries storm water between culvert inlets. An additional 2 feet of widening beyond the shoulder is included to provide space for this water. Temporary BMPs include silt fence, fiber rolls, temporary high-visibility fence (THVF), street sweeping, stabilized construction entrance and exits, temporary gravel bag berms, and concrete washouts. A complete Stormwater Pollution Prevention Plan (SWPPP) shall be prepared by the Contractor and shall be submitted to the Caltrans Resident Engineer (RE) for approval. The Disturbed Soil Area (DSA) for this project is estimated at 4.73 acres. The existing impervious area within the project construction limits is 1.68 acres, which consists of the existing paved roadway. After construction of the widened roadway surfaces, the post-project impervious area is proposed to be 2.16 acres. Net new impervious (NNI) area was calculated by taking the difference between



the post-project impervious area and the existing impervious area, which was calculated to be 0.48 acres. Replaced impervious surface (RIS) was calculated using MicroStation and typical-cross sections. These were used to find the difference between where existing roadway and proposed sections overlapped, and where these areas resulted in disturbance of subgrade. RIS was calculated to be 0.29 acres. New impervious surface (NIS) was calculated by taking the sum of the NNI and RIS and subtracting the excluded impervious area. The NIS was calculated to be 0.77 acres, which is less than the 1 acre increase that would require permanent BMP installation. New slopes will be stabilized and vegetated in accordance with plans approved by the District Landscape Architect. Final soil stabilization strategies include the use of 3 different types of erosion control, which consist of a combination of: compost, duff, hydraulic biotic growth medium, and a fiber reinforced matrix. Additional slope stabilization methods to be used include Rolled Erosion Control Product (RECP) netting, compost socks, duff berms, and fiber rolls. Existing vegetation will be preserved to the maximum extent practicable and in accordance with existing environmental permits and agreements. Environmentally Sensitive Areas (ESA) are delineated on the project plans with THVF. THVF fencing will be included in the contract plans to indicate areas that are off-limits to the contractor. Biofiltration strips have been proposed for treatment of the runoff on this project. The strips are proposed to be located adjacent to the roadway in order to flow through and treat as much runoff as possible before entering a water body.

61 trees in the clear recovery zone west of the highway and 5 trees on the east side will be removed.

The anticipated traffic control measures are reversing traffic control, moving lane closure, and shoulder closure. One-lane closure is permitted within the project limits. A minimum of 12 feet of paved roadway must be open for use by public traffic. Bicyclists will be accommodated through the work zone. Signage will be used to alert vehicle operators to the possible presence of bicyclists. The estimated maximum delay during one-way reversing traffic control will be 10 minutes. Access to side roads and residences will be maintained at all times.

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE
X-X	TYPICAL CROSS SECTIONS
XX-XX	LAYOUTS
XX-XX	PROFILES AND SUPERELEVATION DIAGRAMS
XX-XX	CONSTRUCTION DETAILS
XX-XX	DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES
XX-XX	UTILITY PLANS
XX	CONSTRUCTION AREA SIGNS
XX-XX	MOTORIST INFORMATION PLANS
XX-XX	STAGE CONSTRUCTION PLANS
XX-XX	TRAFFIC HANDLING PLANS AND QUANTITIES
XX-XX	PAVEMENT DELINEATION PLANS, DETAILS AND QUANTITIES
XX-XX	SIGN PLANS, DETAILS AND QUANTITIES
XX-XX	SUMMARY OF QUANTITIES
XX-XX	REVISED STANDARD PLANS
XX-XX	VENDOR DRAWINGS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

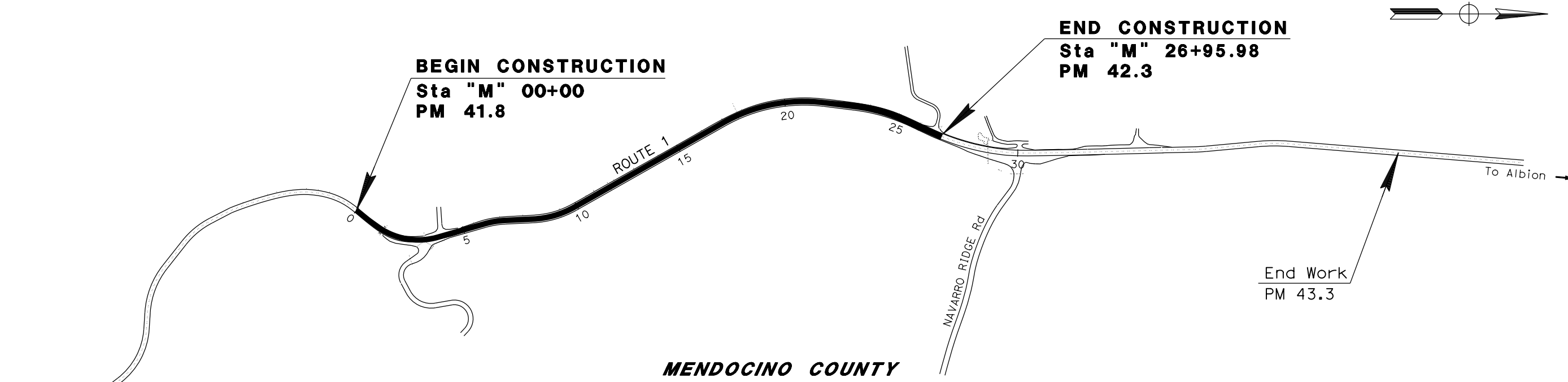
## PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

### IN MENDOCINO COUNTY NEAR ALBION FROM 1.5 MILES NORTH OF THE JUNCTION OF ROUTE 128 TO 0.1 MILE SOUTH OF NAVARRO RIDGE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2018

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3	1	45

LOCATION MAP



PROJECT MANAGER  
FRANK DEMLING

DESIGN MANAGER  
JAMES D. RASMUSSEN

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

NO SCALE

DRAFT

PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE

PRELIMINARY

REGISTERED PROFESSIONAL ENGINEER  
JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

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.	<b>01-0C5504</b>
PROJECT ID	<b>0112000300</b>

DATE PLOTTED => 08-APR-2020 TIME PLOTTED => 10:58  
LAST REVISION 02-21-20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
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  
JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

**NOTES:**

- DIMENSIONS OF THE PAVEMENT STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS.
- FOR EXACT LOCATIONS AND COLD PLANE LIMITS, RUMBLE STRIP LOCATIONS, AND GUARDRAIL LIMITS, SEE LAYOUT SHEETS.
- PLACE SUBGRADE ENHANCEMENT FABRIC OVER THE EXISTING SOILS FOR ANY AREAS OF NEW PAVEMENT STRUCTURAL SECTIONS.

**DESIGN DESIGNATION**

ADT (2015)	3,300	D	68%
ADT (2041)	3,560	T	5.0%
		V	55 mph
		T <sub>20</sub>	8.5

**PAVEMENT CLIMATE REGION**

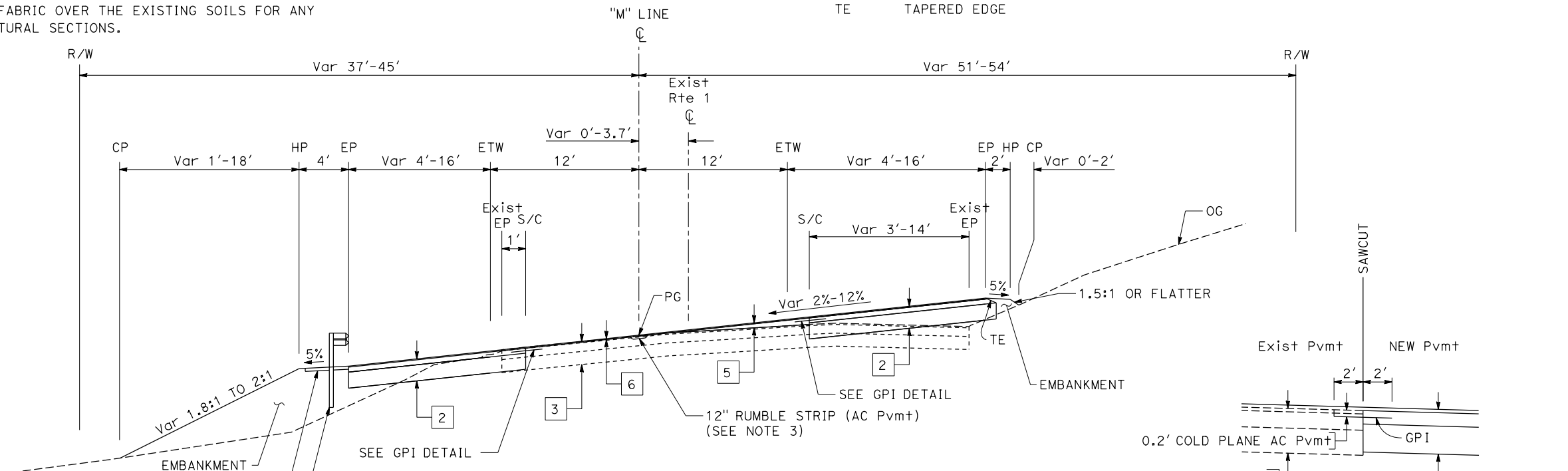
NORTH COAST

**ABBREVIATIONS:**

BWC-G	BONDED WEARING COURSE (GAP GRADED)
GPI	GEOSYNTHETIC PAVEMENT INTERLAYER
HMA-A	HOT MIX ASPHALT (TYPE A)
RAC-G	RUBBERIZED ASPHALT CONCRETE (GAP GRADED)
RHMA-G	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
SEG	SUBGRADE ENHANCEMENT GEOTEXTILE
TE	TAPERED EDGE

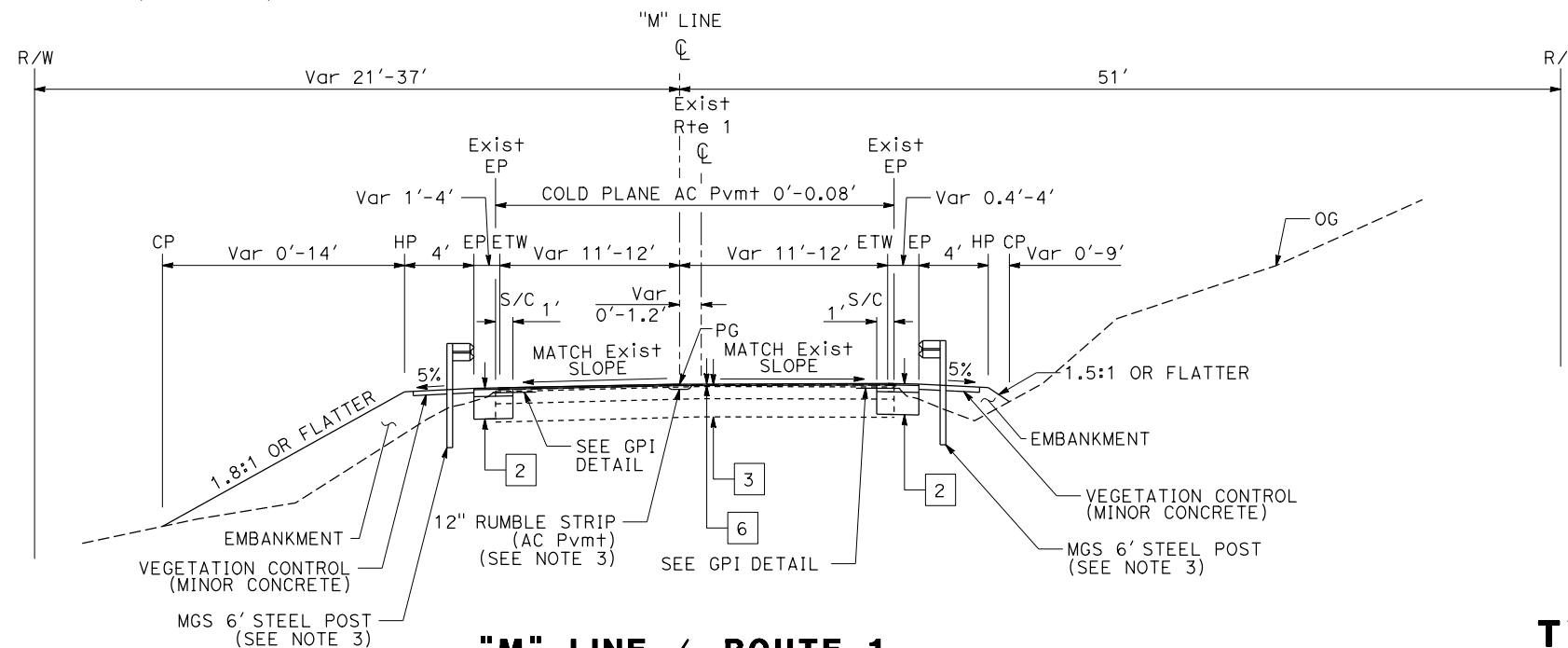
**TYPICAL PAVEMENT STRUCTURAL SECTIONS**

- 1 0.08' BWC-G  
1.00' HMA-A
- 2 0.08' BWC-G  
0.40' HMA-A  
1.30' CI 2 AB  
SEG
- 3 Exist  
0.10' RAC-G  
0.70' AC  
1.05' AB
- 4 Exist  
0.10' RAC-G  
0.45' AC  
0.45' AB  
1.00' AS
- 5 0.08' BWC-G  
0.08' - 0.50' HMA-A
- 6 0.08' BWC-G
- 7 Exist  
0.10' RAC-G  
0.45' AC  
0.45' AB  
1.00' AS



**"M" LINE / ROUTE 1**

Sta 1+31 TO 2+55.26



**"M" LINE / ROUTE 1**

Sta 0+00 TO 1+31

**TYPICAL CROSS SECTIONS**

NO SCALE

**X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D 3 - DESIGN

REVISOR: JASON LIU, JON R. MCKEAN  
CHECKED BY: JAMES D. RASMUSSEN  
FUNCTIONAL SUPERVISOR

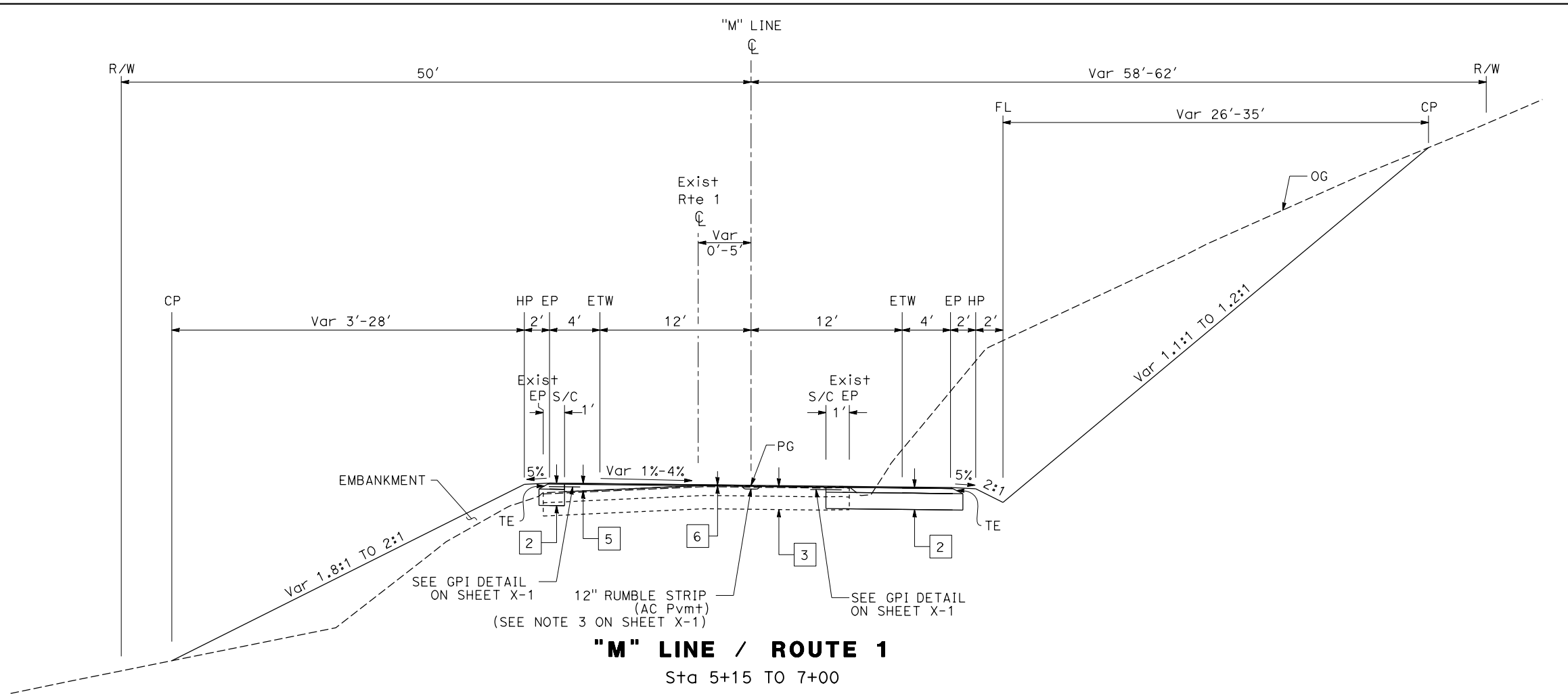
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

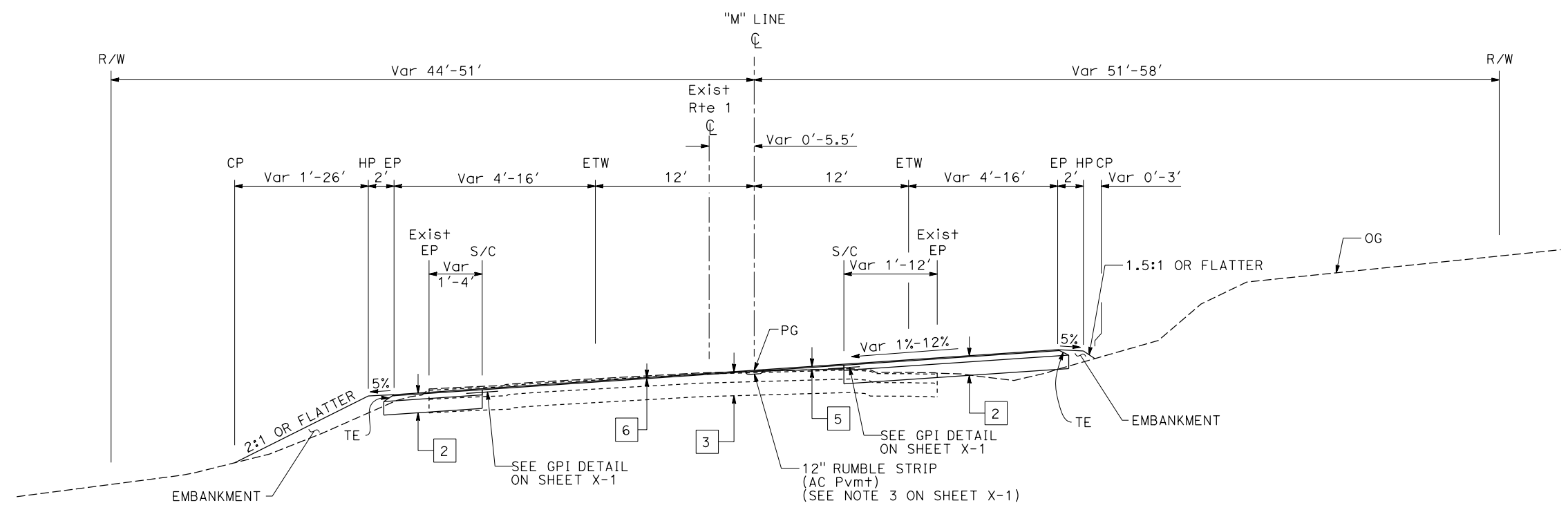
XX-XX-20  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**JON MCKEAN**  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA



**"M" LINE / ROUTE 1**  
Sta 5+15 TO 7+00



**"M" LINE / ROUTE 1**  
Sta 2+55.26 TO 5+15

**TYPICAL CROSS SECTIONS**  
NO SCALE

**X-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D 3 - DESIGN

FUNCTIONAL SUPERVISOR  
**JAMES D. RASMUSSEN**

CHECKED BY  
**JON R. MCKEAN**

DESIGNED BY  
**JASON LIU**

REVISOR  
**JON R. MCKEAN**

BORDER LAST REVISED 7/2/2010

USERNAME => s148600  
DGN FILE => 0112000300c002.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

UNIT 0306

PROJECT NUMBER & PHASE

01120003001

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 10:58



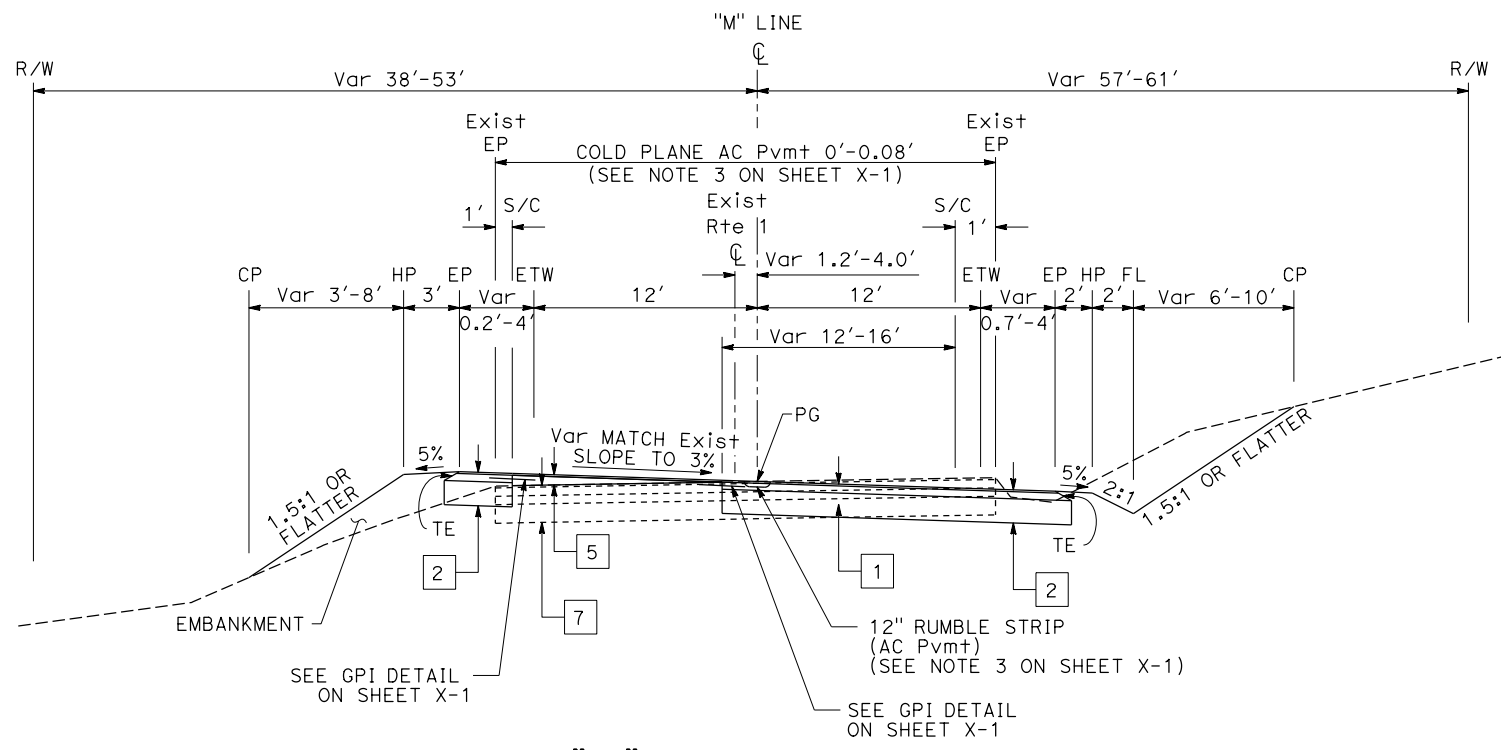
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01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

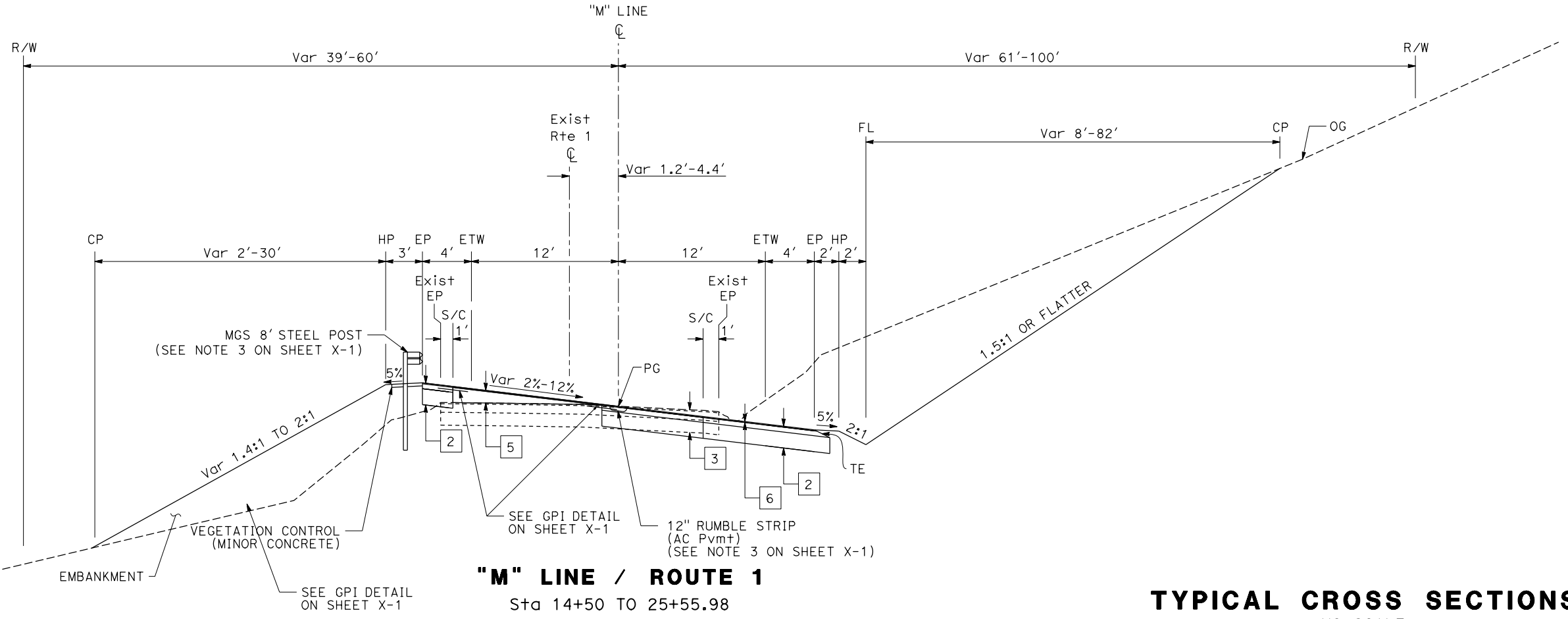
XX-XX-20  
PLANS APPROVAL DATE

JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

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**"M" LINE / ROUTE 1**  
Sta 25+55.98 TO 26+95.98



**"M" LINE / ROUTE 1**  
Sta 14+50 TO 25+55.98

**TYPICAL CROSS SECTIONS**  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
D 3 - DESIGN

FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN

DESIGNED BY  
JASON LIU

CHECKED BY  
JON R. MCKEAN

REVISOR  
DATE

REVISIONS

USERNAME => s148600  
DGN FILE => 0112000300c004.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

0 1 2 3

UNIT 0306

PROJECT NUMBER & PHASE  
01120003001

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 10:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

DRAFT

PROFESSIONAL LAND SURVEYOR      DATE

PROFESSIONAL LAND SURVEYOR
STATE OF CALIFORNIA

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.

**NOTES:**

- FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY RECORDS ON FILE IN THE SURVEYS DEPARTMENT AT THE DISTRICT OFFICE.
- BASIS OF BEARINGS AND COORDINATES:**

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM (CCS), ZONE 2, NAD 83 (1998) EPOCH 2004.69 AS DETERMINED LOCALLY BY A LINE BETWEEN STATION 4234 AND STATION 4182, BEING S 6°38'18"E, 2534.90 ft FROM GEODETIC SURVEY.

COORDINATES ARE SHOWN IN THE U.S. SURVEY FOOT ( 1200/3937 METER )

- BASIS OF ELEVATIONS:**

THIS PROJECT IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). STATIONS AND RESPECTIVE ELEVATIONS CONSTRAINED TO ARE:

4196      ELEVATION = 218.25

**ABBREVIATIONS:**

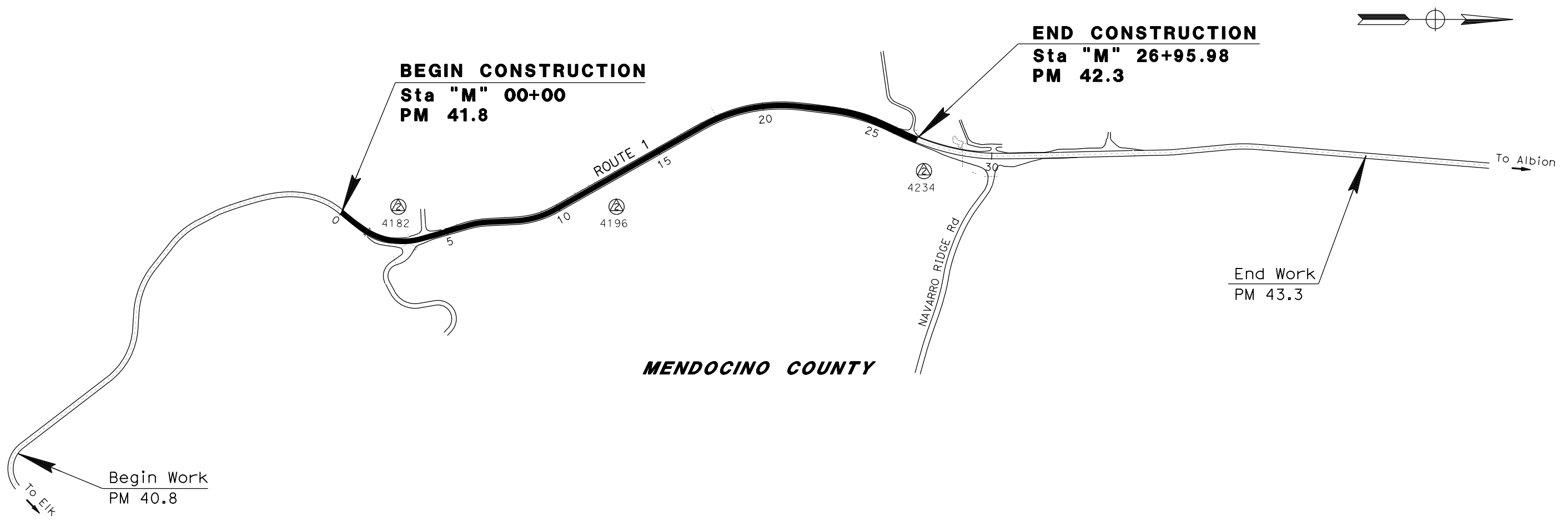
ALCAR - REBAR WITH ALUMINUM CAP

**LEGEND:**

2CM STATION

**CONTROL FOR DESIGN AND CONSTRUCTION**

STATION DESIGNATION	ORDER	NORTHING	EASTING	ELEVATION	DESCRIPTION
4234	THIRD	2205616.66	6060683.35	41.96	ALCAR STAMPED "1 42.34 2011"
4196	THIRD	2203780.39	6060892.86	218.25	ALCAR STAMPED "41.96 2016"
4182	THIRD	2330066.69	6159732.00	226.38	ALCAR STAMPED "41.82 2016"



**MENDOCINO COUNTY**

**PROJECT CONTROL**

NO SCALE

**PC-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 REVISIONS: REVISOR, DATE, DESCRIPTION  
 REVISION 1: [blank], [blank], [blank]  
 REVISION 2: [blank], [blank], [blank]  
 REVISION 3: [blank], [blank], [blank]  
 REVISION 4: [blank], [blank], [blank]  
 REVISION 5: [blank], [blank], [blank]  
 REVISION 6: [blank], [blank], [blank]  
 REVISION 7: [blank], [blank], [blank]  
 REVISION 8: [blank], [blank], [blank]  
 REVISION 9: [blank], [blank], [blank]  
 REVISION 10: [blank], [blank], [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

REG. NO. C 61308  
EXP. 06-30-21  
JON MCKEAN  
CIVIL  
STATE OF CALIFORNIA

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.
- FOR GEOSYNTHETIC REINFORCED EMBANKMENT DETAILS, SEE CONSTRUCTION DETAILS SHEETS C-1 TO C-3.
- FOR MGS POST OMISSION DETAILS, SEE CONSTRUCTION DETAILS SHEET C-6.

**LEGEND:**

- COLD PLANE AC PAVEMENT
- GEOSYNTHETIC REINFORCED EMBANKMENT

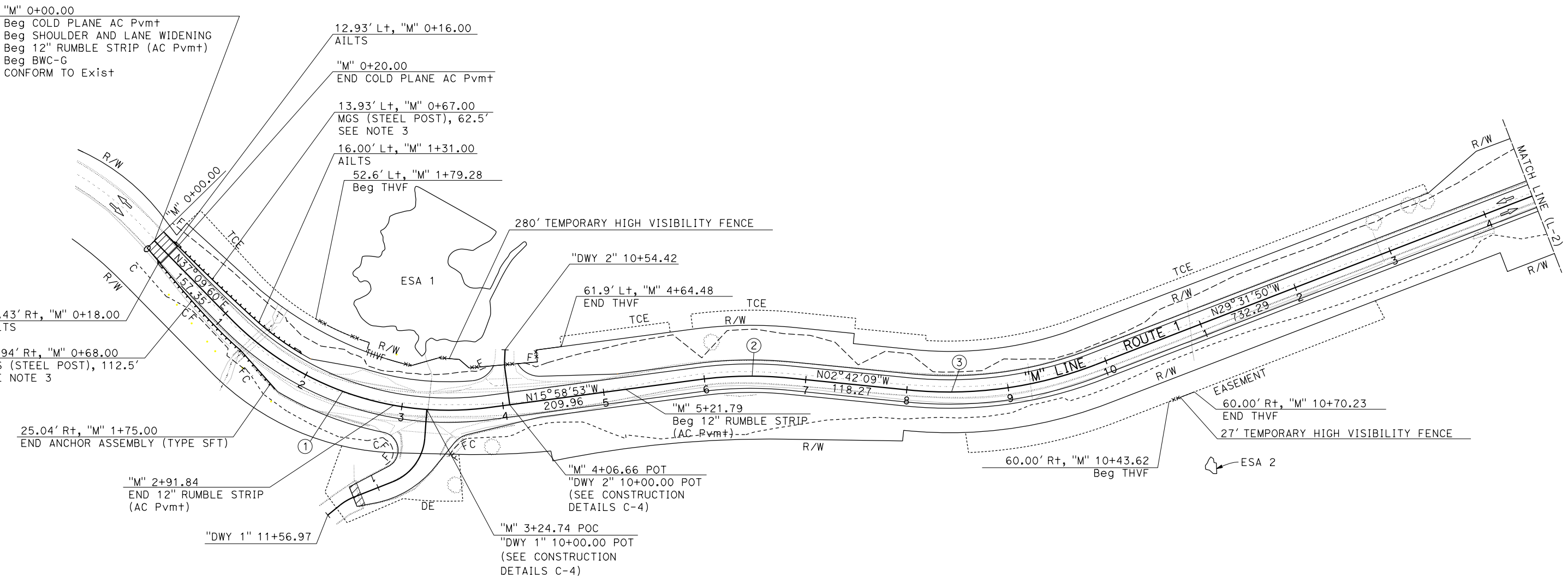
**ABBREVIATIONS:**

- AILTS ALTERNATIVE IN-LINE TERMINAL SYSTEM
- BWC-G BONDED WEARING COURSE (GAP GRADED)
- GRE GEOSYNTHETIC REINFORCED EMBANKMENT
- DE DRAINAGE EASEMENT



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
**D 3 - DESIGN**

REVISIONS:  
REVISOR: JASON LIU  
DATE: 06/15/20  
DESIGNED BY: JON R. MCKEAN  
CHECKED BY: JAMES D. RASMUSSEN  
FUNCTIONAL SUPERVISOR: JAMES D. RASMUSSEN



**CURVE DATA**

No. @	R	Δ	T	L	BC	EC
1	300.00'	53°08'53.09"	150.06'	278.28'	"M" 1+07.35	"M" 3+85.63
2	380.00'	13°16'43.92"	44.23'	88.07'	"M" 5+95.59	"M" 6+83.66
3	400.00'	26°49'40.24"	95.40'	187.29'	"M" 8+01.93	"M" 9+89.23

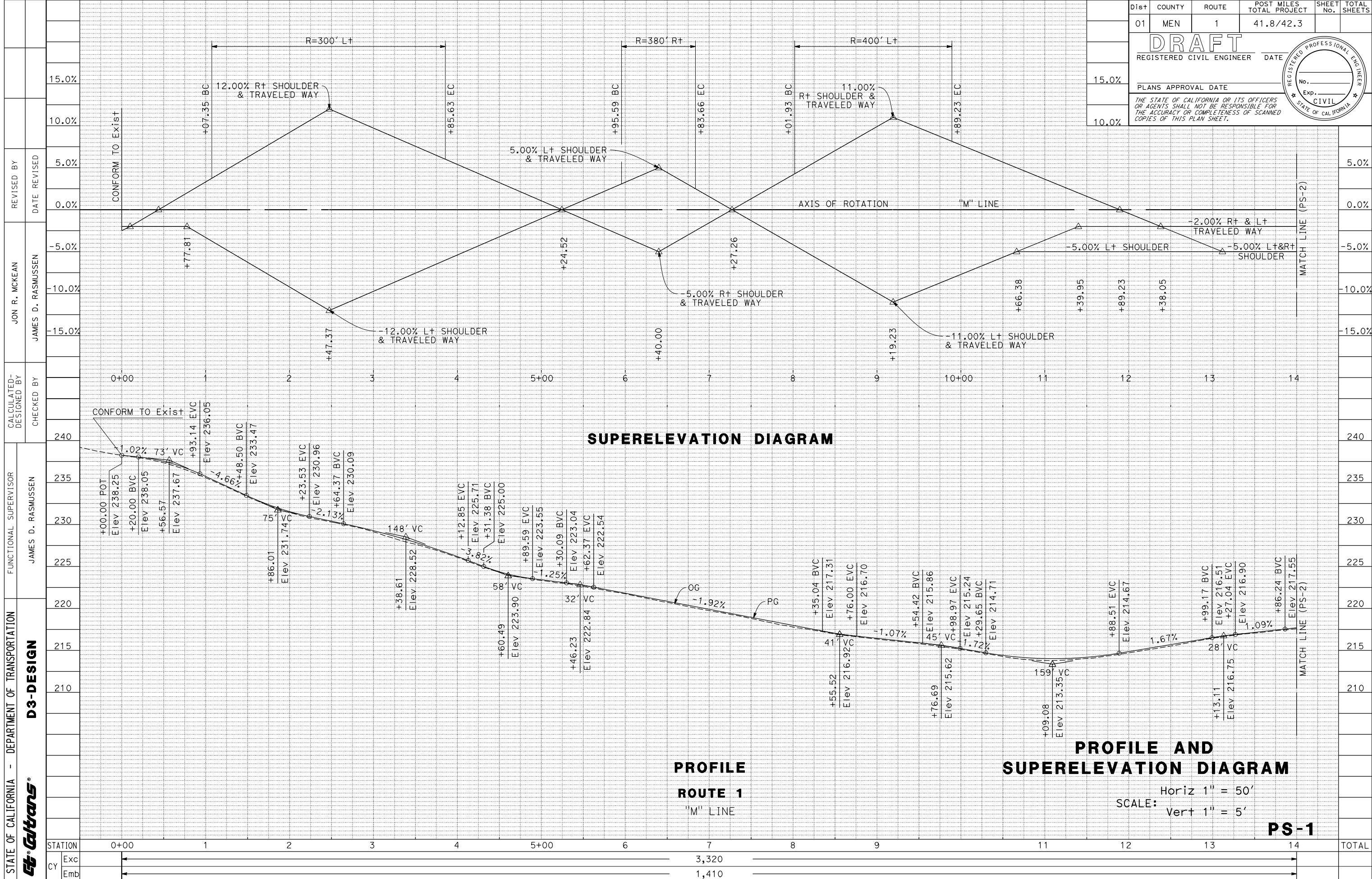
**LAYOUT**  
SCALE: 1" = 50'

**L-1**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 10:59







Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	MEN	1	41.8/42.3		

**DRAFT**  
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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

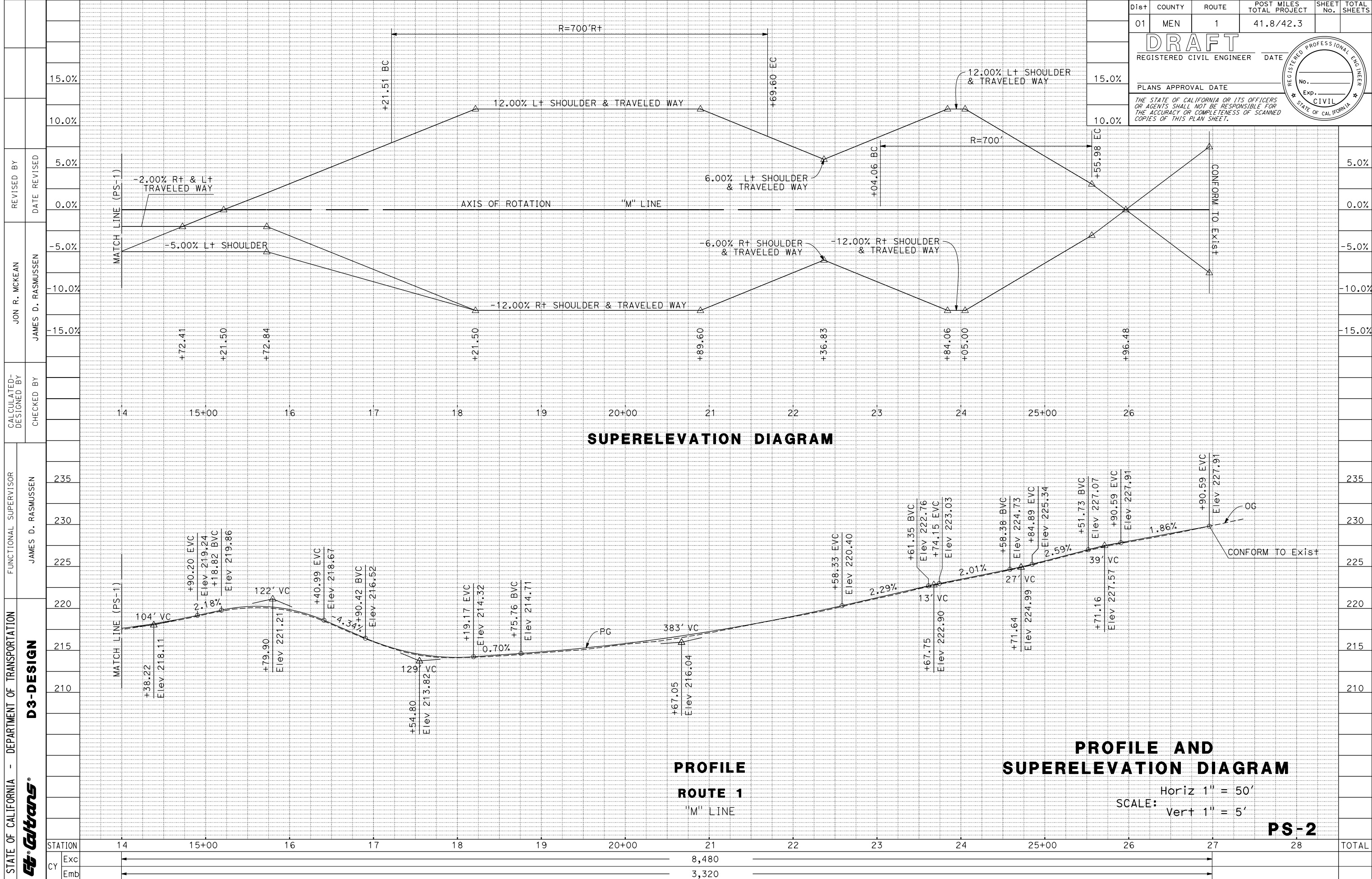
**SUPERELEVATION DIAGRAM**

**PROFILE  
ROUTE 1  
"M" LINE**

**PROFILE AND  
SUPERELEVATION DIAGRAM**

Horiz 1" = 50'  
SCALE: Vert 1" = 5'

**PS-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	MEN	1	41.8/42.3		

**DRAFT**  
REGISTERED CIVIL ENGINEER DATE

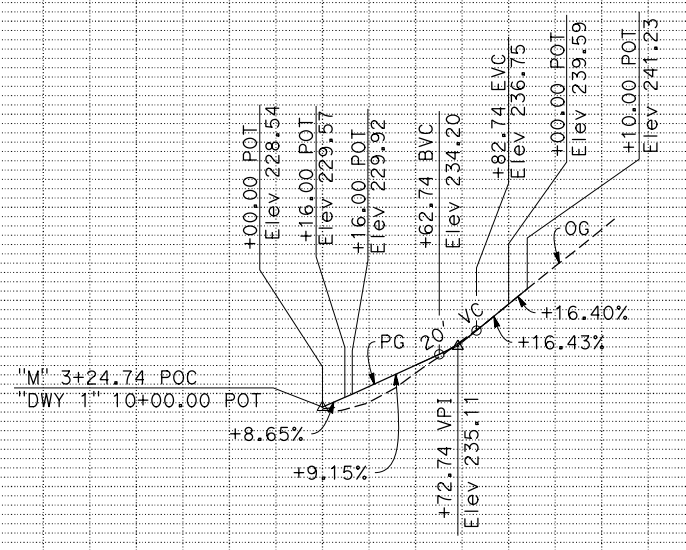
PLANS APPROVAL DATE

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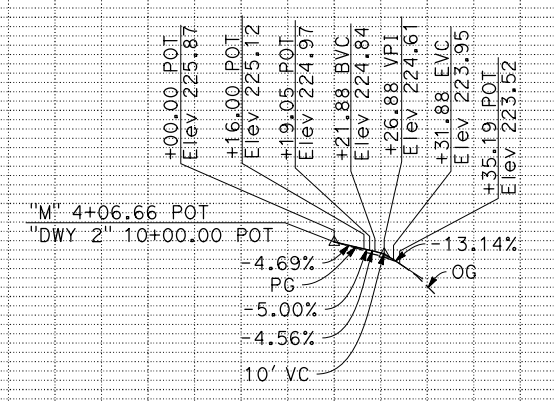
REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>CD</b>	JAMES D. RASMUSSEN	JAMES D. RASMUSSEN	JON R. MCKEAN
<b>D3-DESIGN</b>			
CHECKED BY	DATE	DATE	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS	DRAFT	
						REGISTERED CIVIL ENGINEER	DATE
01	MEN	1	41.8/42.3				
PLANS APPROVAL DATE							
<small>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.</small>							
CALCULATED-DESIGNED BY		COREY CHAN		REVISOR			
CHECKED BY		JON MCKEAN		DATE			
FUNCTIONAL SUPERVISOR		JAMES D. RASMUSSEN		DATE			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		D3 - DESIGN		DATE			
STATION		240		DATE			
CY		230		DATE			
Exc		220		DATE			
Emb				DATE			



**PROFILE**  
"DWY 1" LINE



**PROFILE**  
"DWY 2" LINE

**PROFILE AND SUPERELEVATION DIAGRAM**

SCALE: Horiz 1" = 50'  
Vert 1" = 10'

**PS-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
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  
**JON MCKEAN**  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

**NOTES:**

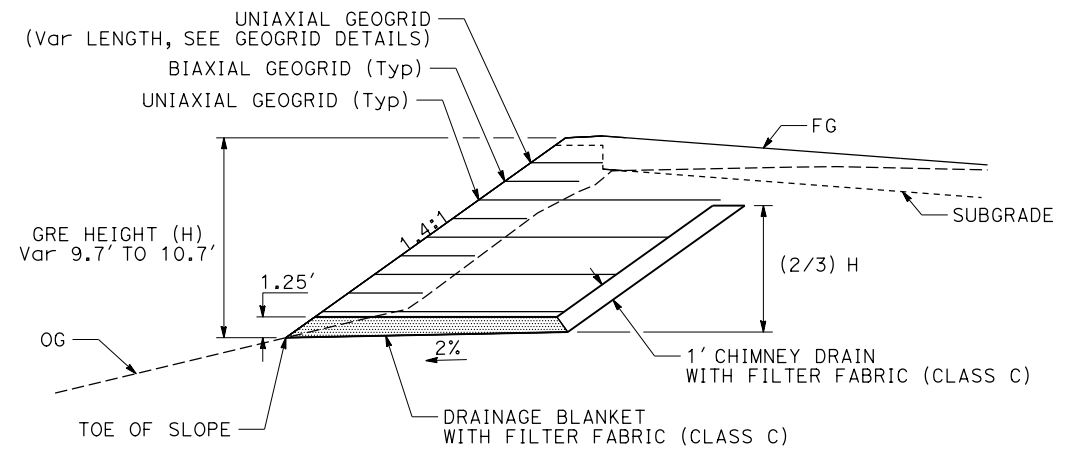
1. PLACE 6" DIAMETER PERFORATED PLASTIC PIPE (PPP) AT STATION "M" 17+55, SEE DRAINAGE PLAN.
2. EXCEPT FOR STATION "M" 17+55, DRAINAGE BLANKET THICKNESS AT ALL LOCATIONS SHALL BE 1.25' AT GRE FACE.

**LEGEND:**

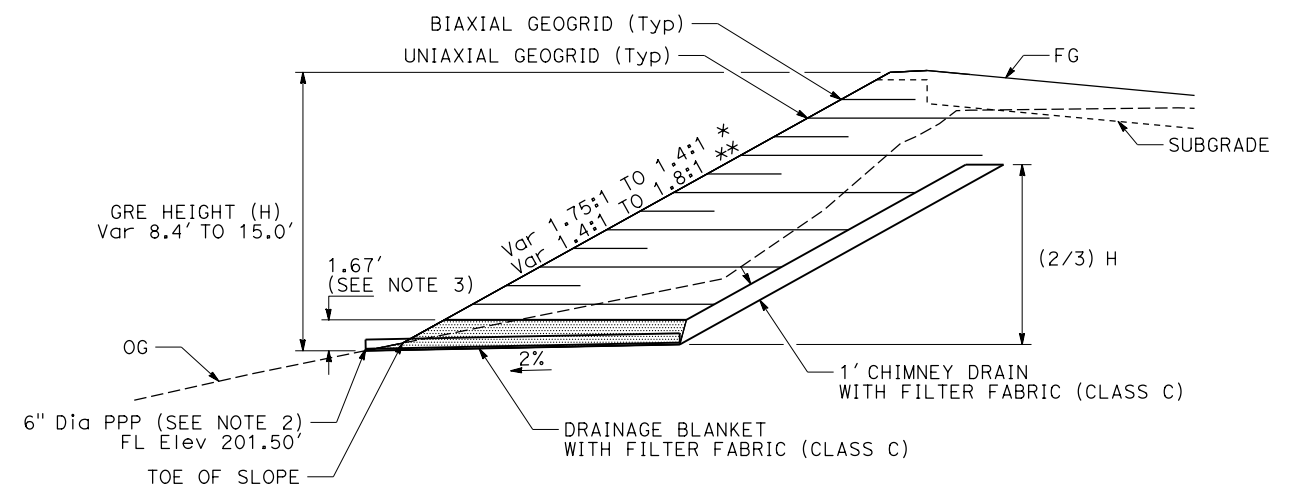


**ABBREVIATIONS:**

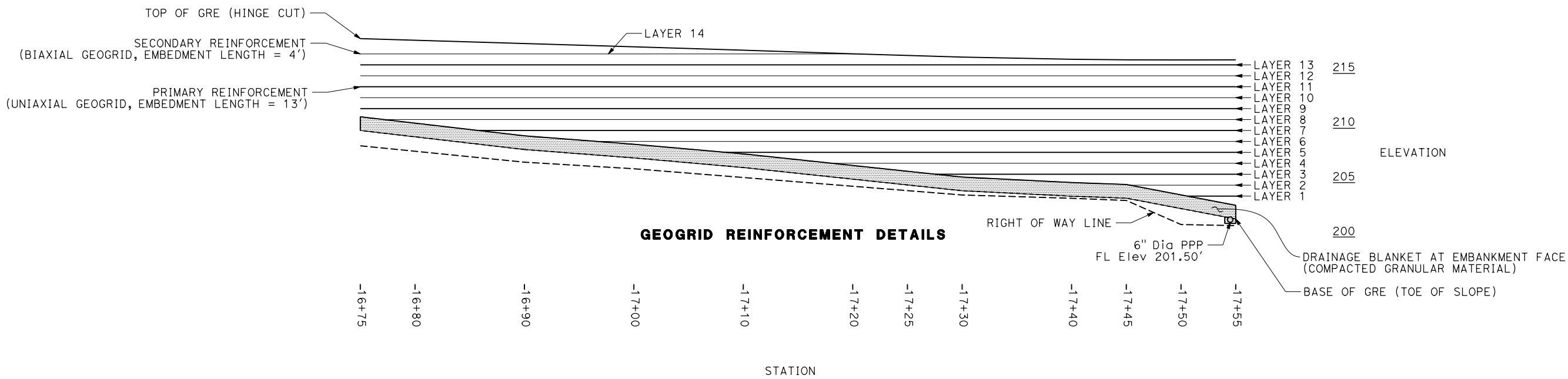
- GRE GEOSYNTHETIC REINFORCED EMBANKMENT  
LTDS LONG TERM DESIGN STRENGTH



**REINFORCED EMBANKMENT DETAIL  
(CROSS SECTION VIEW)**  
"M" STA 16+90 L+ TO "M" STA 17+45 L+



**REINFORCED EMBANKMENT DETAIL - AT TRANSITION ZONE  
(CROSS SECTION VIEW)**  
"M" STA 16+75 L+ TO "M" STA 16+90 L+ \*  
"M" STA 17+45 L+ TO "M" STA 17+55 L+ \*\*



**REINFORCED EMBANKMENT DETAIL  
(ELEVATION VIEW)**

**CONSTRUCTION DETAILS**

NO SCALE

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**CD**  
**Caltrans**

REVISOR BY DATE

LIANNA WINKLER-PRINS  
JON R. MCKEAN

CALCULATED BY CHECKED BY

FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**D 3 - DESIGN**

FUNCTIONAL SUPERVISOR  
 JAMES D. RASMUSSEN

CALCULATED BY  
 DESIGNED BY  
 CHECKED BY

LIANNA WINKLER-PRINS  
 JON R. MCKEAN

REVISED BY  
 DATE REVISED

**GEOGRID DETAILS**

STATION	LAYER No.	ELEVATION FROM TOE (FT)	REINFORCEMENT LENGTH (FT)	REINFORCEMENT TYPE
"M" 16+75	9	2.0	13	A
	10	3.0	4	B
	11	4.0	13	A
	12	5.0	4	B
	13	6.0	13	A
	14	7.0	4	B
"M" 16+80	8	1.6	4	B
	9	2.6	13	A
	10	3.6	4	B
	11	4.6	13	A
	12	5.6	4	B
	13	6.6	13	A
	14	7.6	4	B
"M" 16+90	7	1.7	13	A
	8	2.7	4	B
	9	3.7	13	A
	10	4.7	4	B
	11	5.7	13	A
	12	6.7	4	B
	13	7.7	9	A
"M" 17+00	14	8.7	3	B
	6	1.5	4	B
	7	2.5	13	A
	8	3.5	4	B
	9	4.5	13	A
	10	5.5	4	B
	11	6.5	13	A
	12	7.5	4	B
13	8.5	4	A	
14	9.5	3	B	

**GEOGRID TYPE AND STRENGTH**

	REINFORCEMENT TYPE	LTDS (LB/FT)
A	UNIAXIAL GEOGRID	1,300
B	BIAXIAL GEOGRID	

**GEOGRID DETAILS**

STATION	LAYER No.	ELEVATION FROM TOE (FT)	REINFORCEMENT LENGTH (FT)	REINFORCEMENT TYPE	
"M" 17+10	5	1.4	13	A	
	6	2.4	4	B	
	7	3.4	13	A	
	8	4.4	4	B	
	9	5.4	13	A	
	10	6.4	4	B	
	11	7.4	13	A	
	12	8.4	4	B	
	13	9.4	4	A	
	"M" 17+20	4	1.5	4	B
		5	2.5	13	A
		6	3.5	4	B
		7	4.5	13	A
8		5.5	4	B	
9		6.5	13	A	
10		7.5	4	B	
11		8.5	13	A	
12		9.5	4	B	
13		10.5	3	A	

**CONSTRUCTION DETAILS**  
**GEOGRID REINFORCEMENT DETAILS**  
 NO SCALE

**C-2**

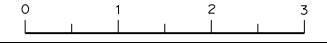
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
 REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
 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  
 JON MCKEAN  
 No. C 61308  
 Exp. 06-30-21  
 CIVIL  
 STATE OF CALIFORNIA



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

**GEOGRID DETAILS**

STATION	LAYER No.	ELEVATION FROM TOE (FT)	REINFORCEMENT LENGTH (FT)	REINFORCEMENT TYPE	
"M" 17+30	3	1.5	13	A	
	4	2.5	4	B	
	5	3.5	13	A	
	6	4.5	4	B	
	7	5.5	13	A	
	8	6.5	4	B	
	9	7.5	13	A	
	10	8.5	4	B	
	11	9.5	13	A	
	12	10.5	4	B	
	13	11.5	3	A	
	"M" 17+40	3	2.0	13	A
		4	3.0	4	B
5		4.0	13	A	
6		5.0	4	B	
7		6.0	13	A	
8		7.0	4	B	
9		8.0	13	A	
10		9.0	4	B	
11		10.0	13	A	
12		11.0	4	B	
"M" 17+45		3	2.2	13	A
		4	3.2	4	B
	5	4.2	13	A	
	6	5.2	4	B	
	7	6.2	13	A	
	8	7.2	4	B	
	9	8.2	13	A	
	10	9.2	4	B	
	11	10.2	13	A	
	12	11.2	4	B	

**GEOGRID DETAILS**

STATION	LAYER No.	ELEVATION FROM TOE (FT)	REINFORCEMENT LENGTH (FT)	REINFORCEMENT TYPE
"M" 17+50	2	2.1	4	B
	3	3.1	13	A
	4	4.1	4	B
	5	5.1	13	A
	6	6.1	4	B
	7	7.1	13	A
	8	8.1	4	B
	9	9.1	4	A
	10	10.1	4	B
	11	11.1	13	A
	12	12.1	4	B
	"M" 17+55	1	2.5	13
2		3.5	4	B
3		4.5	13	A
4		5.5	4	B
5		6.5	13	A
6		7.5	4	B
7		8.5	13	A
8		9.5	4	B
9		10.5	13	A
10		11.5	4	B
11		12.5	13	A
12		13.5	4	B

**CONSTRUCTION DETAILS**  
**GEOGRID REINFORCEMENT DETAILS**  
NO SCALE

**C-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
D 3 - DESIGN  
FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN  
CALCULATED-DESIGNED BY  
CHECKED BY  
LIANNA WINKLER-PRINS  
JON R. MCKEAN  
REVISED BY  
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT**  
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.

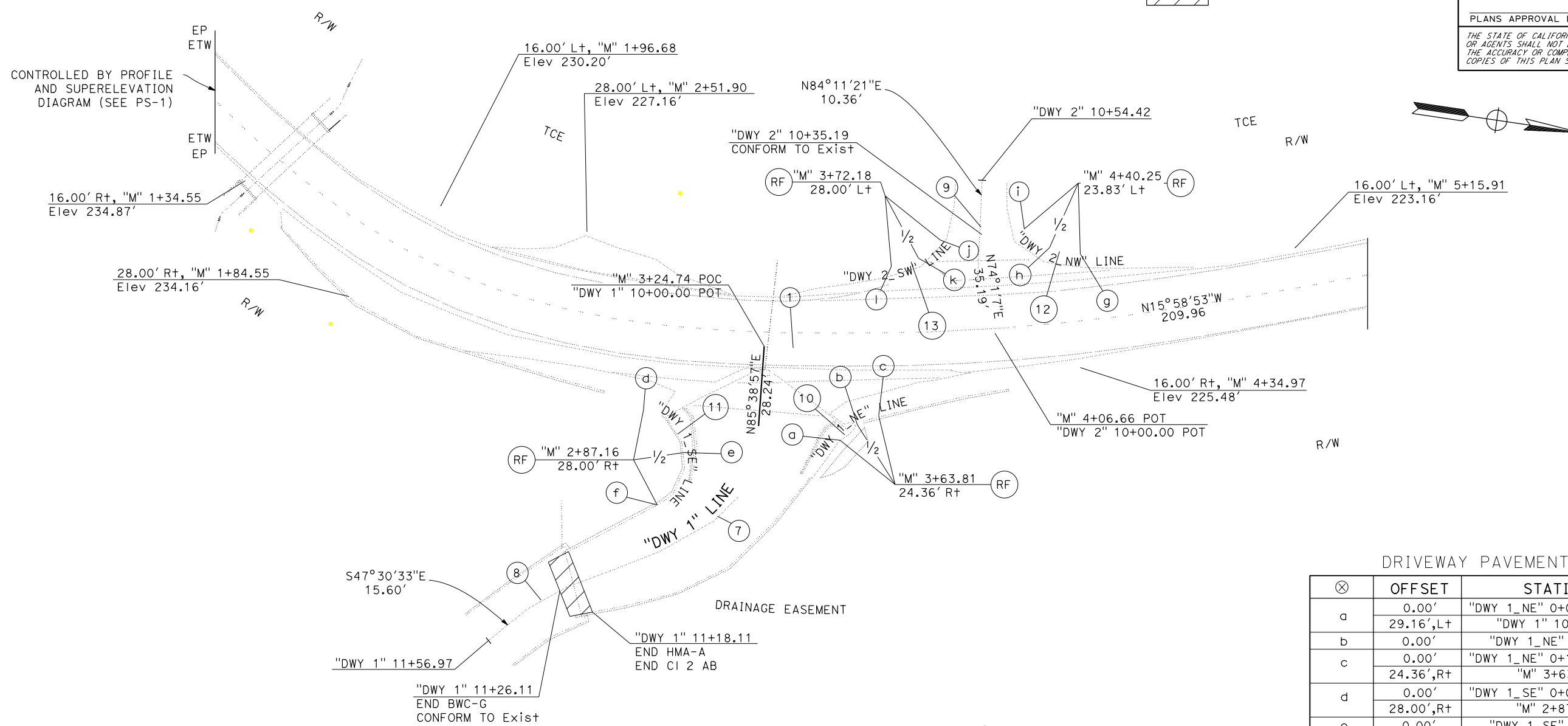
REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA

**ABBREVIATIONS:**

HMA-A HOT MIX ASPHALT (TYPE A)  
BWC-G BONDED WEARING COURSE (GAP GRADED)

**LEGEND:**

 COLD PLANE AC PvmT

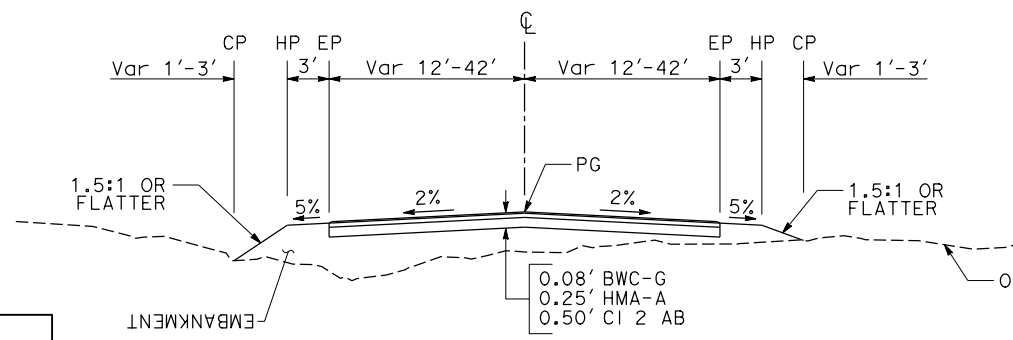


**DRIVEWAY PAVEMENT ELEVATIONS**

⊗	OFFSET	STATION	ELEVATION
a	0.00'	"DWY 1_NE" 0+00.00 BC =	230.28'
	29.16',L+	"DWY 1" 10+30.12	
b	0.00'	"DWY 1_NE" 0+08.24	229.59'
c	0.00'	"DWY 1_NE" 0+16.47 EC =	229.02'
	24.36',R+	"M" 3+63.81	
d	0.00'	"DWY 1_SE" 0+00.00 BC =	232.33'
	28.00',R+	"M" 2+87.16	
e	0.00'	"DWY 1_SE" 0+22.16	233.56'
f	0.00'	"DWY 1_SE" 0+44+32 EC =	236.53'
	15.57',R+	"DWY 1" 10+82.21	
g	0.00'	"DWY 2_NW" 0+00.00 BC =	222.53'
	23.83',L+	"M" 4+40.25	
h	0.00'	"DWY 2_NW" 0+11.21	221.88'
i	0.00'	"DWY 1_SE" 0+22.41 EC =	221.20'
	15.14',R+	"DWY 2" 10+35.19	
j	0.00'	"DWY 1_SW" 0+00.00 BC =	222.56'
	14.82',L+	"DWY 2" 10+35.19	
k	0.00'	"DWY 2_SW" 0+10.10	223.98'
l	0.00'	"DWY 1_SW" 0+20.21 EC =	225.37'
	16.00',L+	"M" 3+72.18	

**CURVE DATA**

No. ⊕	R	T	Δ	L	BC	EC
1	300.00'	53°08'53.09"	150.06'	278.28'	"M" 1+07.35	"M" 3+85.63
7	50.00'	64°19'45.13"	31.44'	56.14'	"DWY 1" 10+28.24	"DWY 1" 10+84.37
8	50.00'	17°29'14.38"	7.69'	15.26'	"DWY 1" 11+26.11	"DWY 1" 11+41.37
9	50.00'	10°10'14.23"	4.45'	8.88'	"DWY 2" 10+35.19	"DWY 2" 11+44.06
10	25.00'	37°45'12.14"	8.55'	16.47'		
11	18.00'	141°04'00.24"	50.92'	44.32'		
12	25.00'	51°22'01.61"	12.02'	22.41'		
13	25.00'	46°18'51.32"	10.69'	20.21'		



**DRIVEWAY TYPICAL SECTION**

NO SCALE

**CONSTRUCTION DETAILS**

**DRIVEWAY DETAILS**

SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D3-DESIGN

FUNCTIONAL SUPERVISOR: JAMES D. RASMUSSEN  
DESIGNED BY: JASON LIU  
CHECKED BY: JON R. MCKEAN  
REVISOR: JASON LIU  
DATE REVISED: JON R. MCKEAN



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	MEN	1	42.3/42.5		

**DRAFT**  
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.

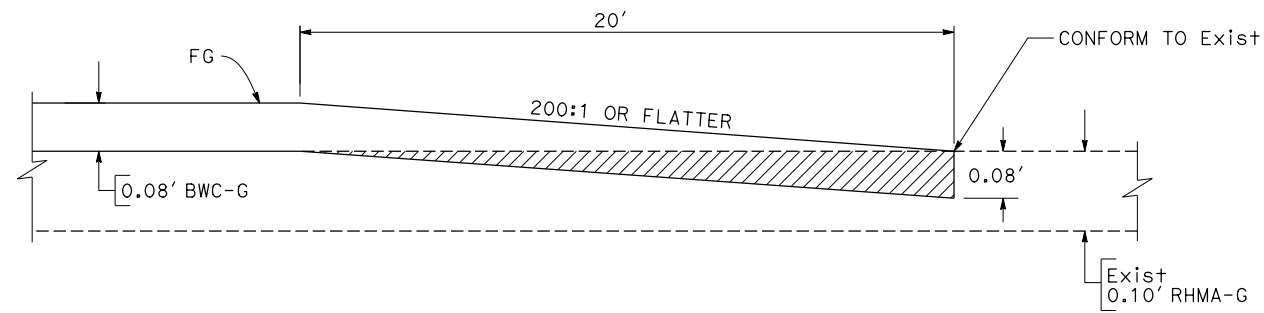
REGISTERED PROFESSIONAL ENGINEER  
JON R. MCKEAN  
No. C 61308  
Exp. 06/30/21  
CIVIL  
STATE OF CALIFORNIA

**ABBREVIATIONS:**

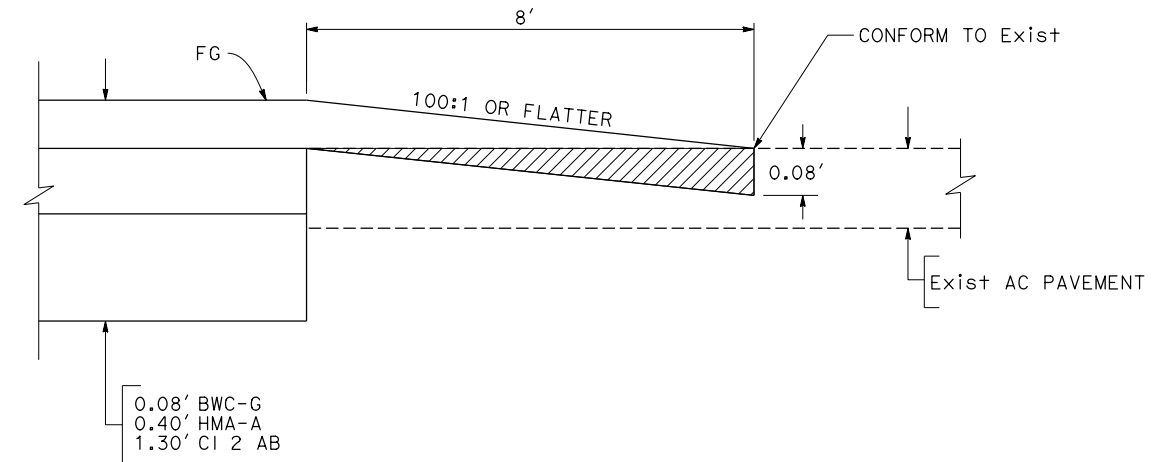
BWC-G BONDED WEARING COURSE (GAP GRADED)  
HMA-A HOT MIX ASPHALT (TYPE A)  
RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

**LEGEND:**

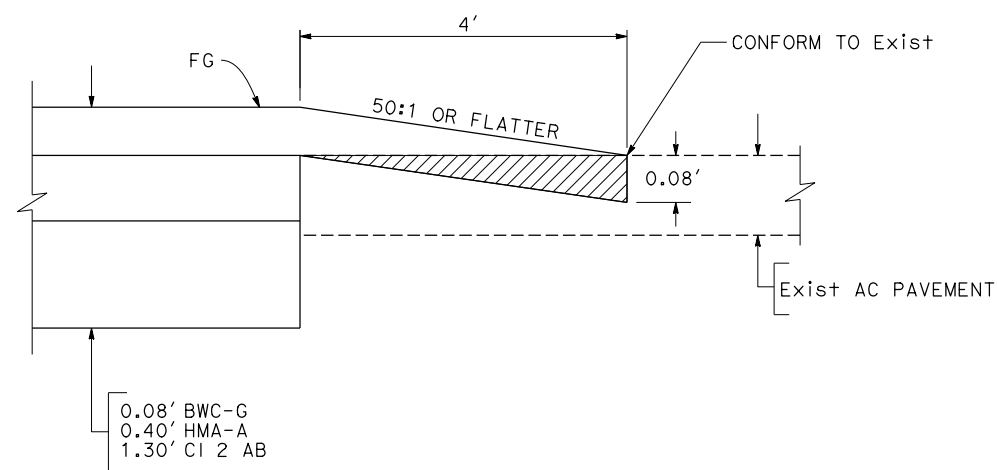
 COLD PLANE AC PvmT



**ROUTE 1 AT OVERLAY LIMITS  
PAVEMENT CONFORM**



**LOCAL ROAD PAVEMENT CONFORM**



**PRIVATE PAVED DRIVEWAY  
PAVEMENT CONFORM**

**CONSTRUCTION DETAILS**

NO SCALE

**C-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
DESIGN  
FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN  
CALCULATED BY  
DESIGNED BY  
CHECKED BY  
JASON LIU  
JON R. MCKEAN  
REVISOR BY  
DATE REVISOR  
DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC SAFETY

FUNCTIONAL SUPERVISOR: David A. Morgan  
 CALCULATED/DESIGNED BY: Keith A. Witte / Marie A. Brady  
 CHECKED BY: [Blank]  
 REVISED BY: [Blank] / DATE REVISED: [Blank]

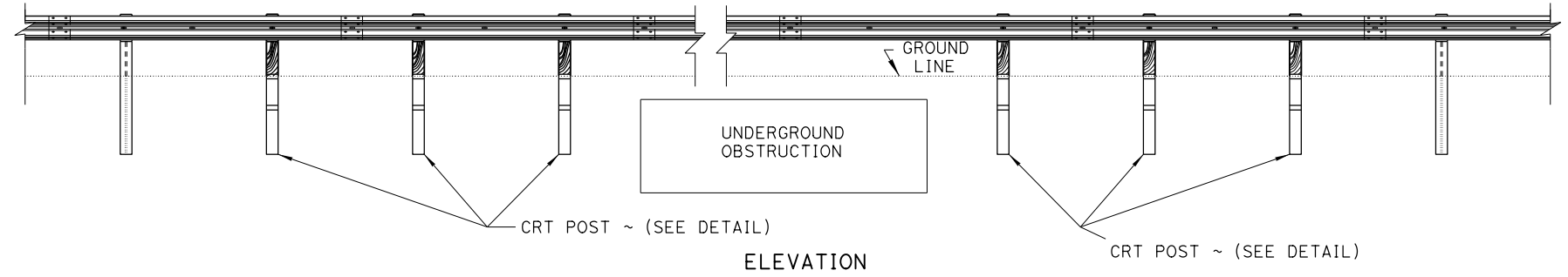
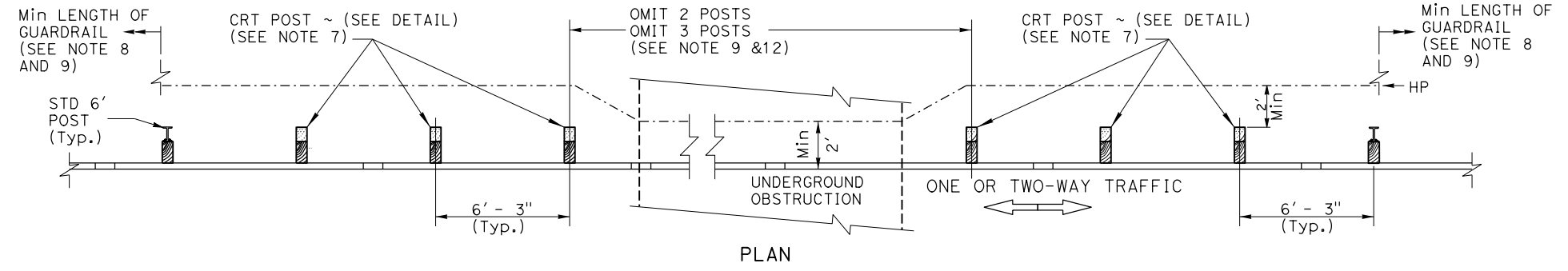
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT**  
 REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

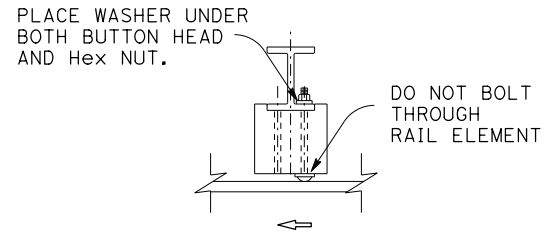
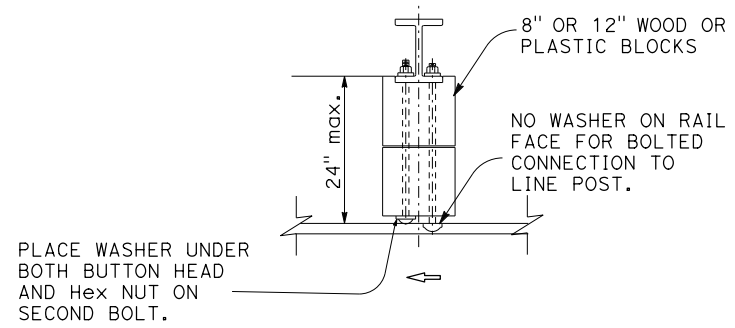
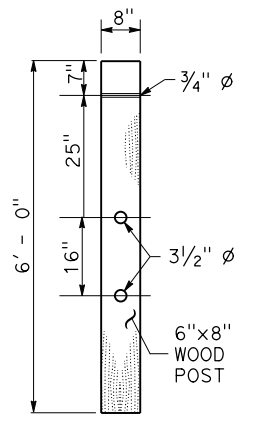
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

1. DETAILS SHOWN ON THIS SHEET DO NOT APPLY TO TRANSITIONS OR TERMINAL SYSTEMS. FOLLOW MANUFACTURER'S INSTRUCTIONS, DRAWINGS AND AS DESCRIBED.
2. A SINGLE LINE POST MAY BE OFFSET UP TO 12" ALONG THE RAIL. SEE NOTE 4.
3. A MAXIMUM 24" OF BLOCKS MAY BE USED TO MOVE POST BACK TO AVOID CONFLICT WITH AN UNDERGROUND OBSTACLE.
4. ATTACH GUARDRAIL ELEMENT TO POST AND BLOCK ONLY WHEN THERE IS A MANUFACTURED SLOT FOR THE BOLT. DO NOT FIELD CUT OR DRILL ELEMENT UNLESS SHOWN OR AUTHORIZED. BOLT ONLY BLOCK TO POST IF THERE IS NO SLOT IN ELEMENT. SEE NO SLOT BLOCK BOLTING DETAIL.
5. POST OMISSION DETAIL FOR UNDERGROUND OBSTRUCTIONS ONLY. NOT FOR USE AT FIXED OBJECTS.
6. CRT POST SHALL BE WOOD AND INCLUDED WITH MGS. NOT TO BE USED WITH NOTES 2 THROUGH 4 AND 12.
7. A SINGLE POST OF MGS MAY BE REMOVED WITH NO CRT POSTS REQUIRED. A MINIMUM OF 25 FEET OF STANDARD MGS IS REQUIRED BEFORE ANOTHER POST CAN BE REMOVED. A TERMINAL CAN BE PLACED OR SPECIAL GUARDRAIL FEATURE.
8. WHEN MORE THAN ONE POST IS REMOVED, PLACE A MINIMUM LENGTH OF 50 FEET OF MGS BEFORE PLACING: A TERMINAL, END ANCHOR, TRANSITION, OVERSIZED POST SPECIAL GUARDRAIL FEATURE, OR REMOVING ANOTHER POST.
9. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.
10. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
11. USE A 25' GUARDRAIL ELEMENT WHEN 3 POSTS ARE REMOVED TO SPAN THE OMITTED POSTS.
12. WHEN AN ADDITIONAL POST FALLS AT A RAIL ELEMENT SPLICE OR ANY OTHER LAPPED RAIL, DO NOT ATTACH RAIL TO BLOCK EVEN IF THERE IS A SLOT. USE LAPPED RAIL BLOCK BOLTING DETAIL.



**MGS POST OMISSION DETAIL**  
 (SEE NOTE 6)



**CONSTRUCTION DETAILS**  
 POST PLACEMENT OPTIONS

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

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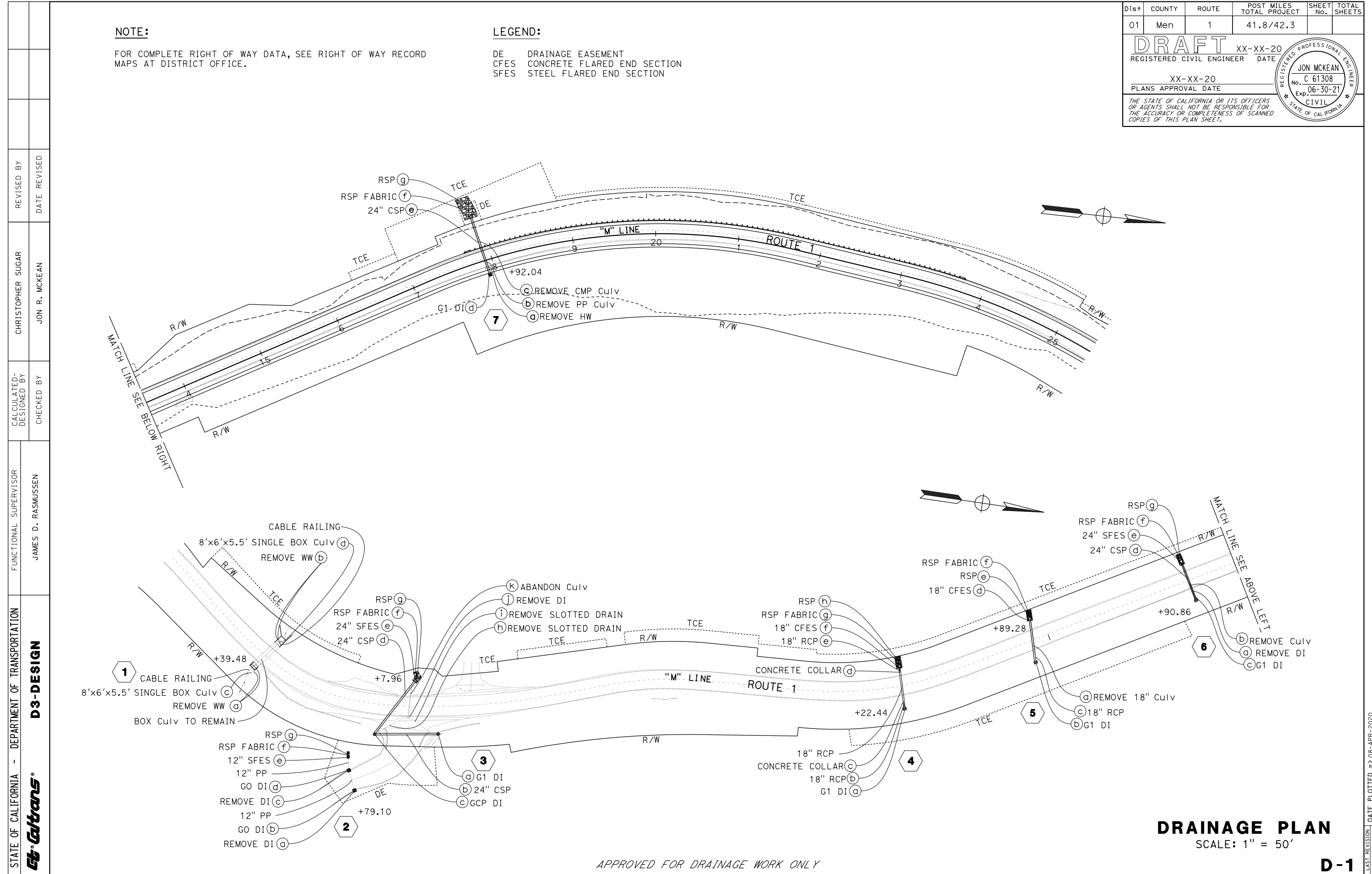
REGISTERED PROFESSIONAL ENGINEER  
**JON MCKEAN**  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

**NOTE:**

FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

**LEGEND:**

DE DRAINAGE EASEMENT  
CFES CONCRETE FLARED END SECTION  
SFES STEEL FLARED END SECTION



**DRAINAGE PLAN**  
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

**D-1**

REVISOR	DATE	REVISION
CHRISTOPHER SUGAR	JON R. MCKEAN	
CALCULATED/DESIGNED BY	CHECKED BY	
JAMES D. RASMUSSEN		
FUNCTIONAL SUPERVISOR		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		
<b>D3-DESIGN</b>		

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 10:59  
LAST REVISION 03-06-20

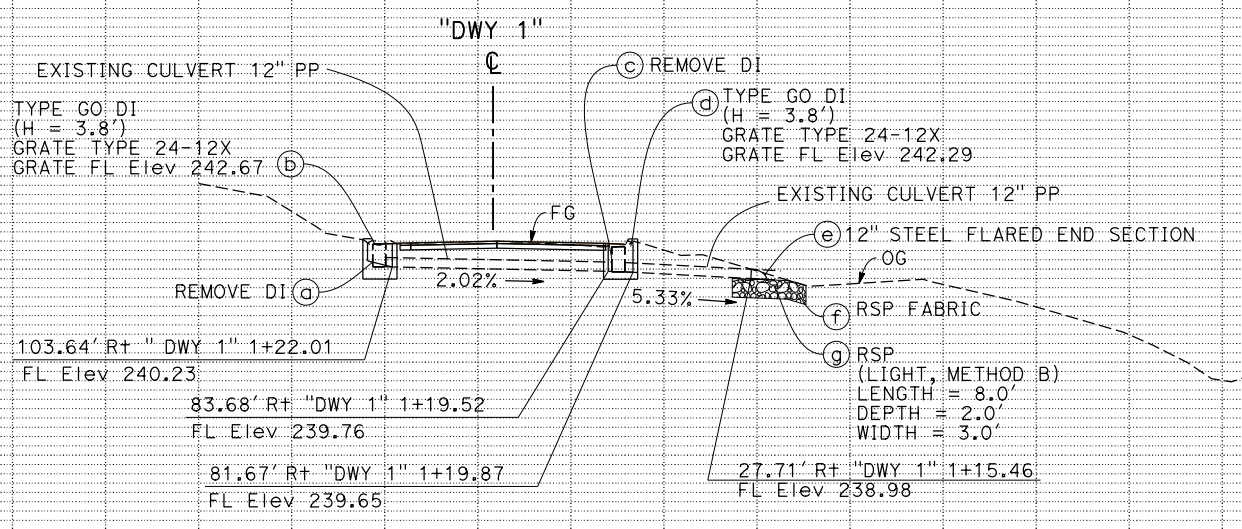
Dist	01	COUNTY	MEN	ROUTE	1	POST MILES TOTAL PROJECT	41.8/42.3	SHEET No.		TOTAL SHEETS	
	<b>DRAFT</b>										
REGISTERED CIVIL ENGINEER										DATE	
PLANS APPROVAL DATE											
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>											

REVISOR	REVISOR	DATE	REVISION
	250		
DESIGNER	DESIGNER	DATE	REVISION
	240		
CHECKER	CHECKER	DATE	REVISION
	230		
SUPERVISOR	SUPERVISOR	DATE	REVISION
	220		
FUNCTIONAL SUPERVISOR	FUNCTIONAL SUPERVISOR	DATE	REVISION
	240		
DESIGNATION	DESIGNATION	DATE	REVISION
	230		
DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION	DATE	REVISION
	220		
03-DESIGN	03-DESIGN	DATE	REVISION
	210		

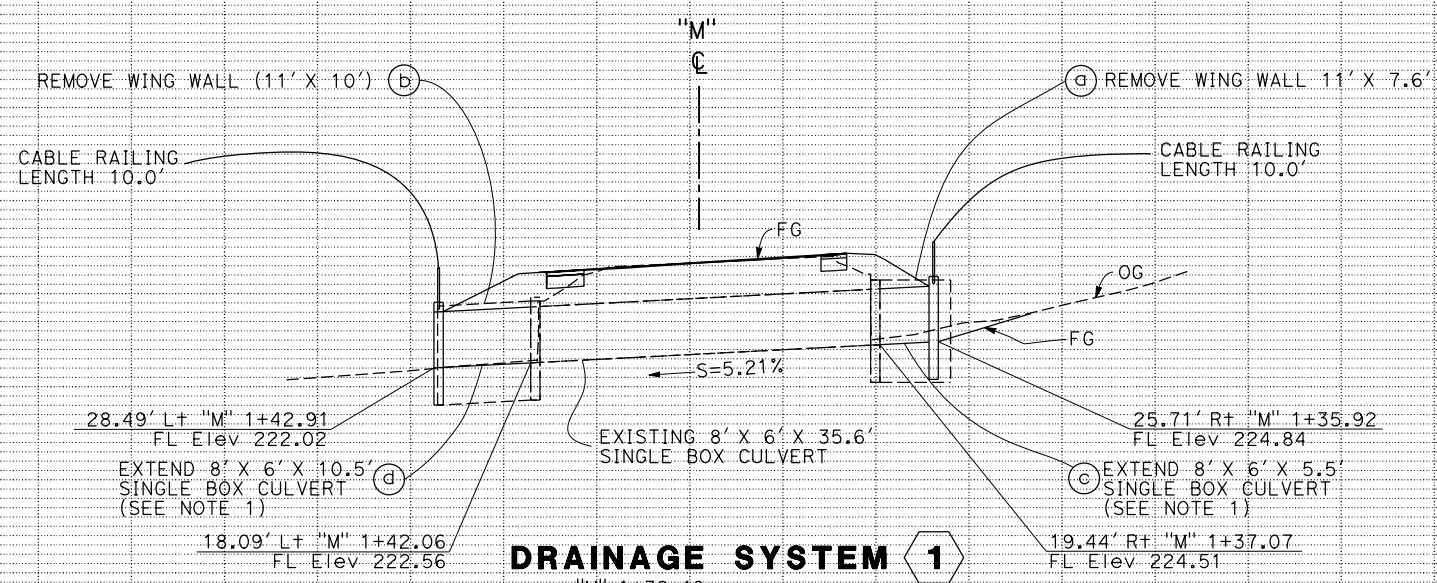
  

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DESIGNER	CHECKER	SUPERVISOR	DESIGNATION	DEPARTMENT OF TRANSPORTATION	03-DESIGN
Caltrans	JAMES D. RASMUSSEN	JON R. MCKEAN	CHRISTOPHER SUGAR					



**DRAINAGE SYSTEM 2**

"DWY 1" 1+79.10  
3°42'07" SKEW



**DRAINAGE SYSTEM 1**

"M" 1+39.48  
7°31'21" SKEW

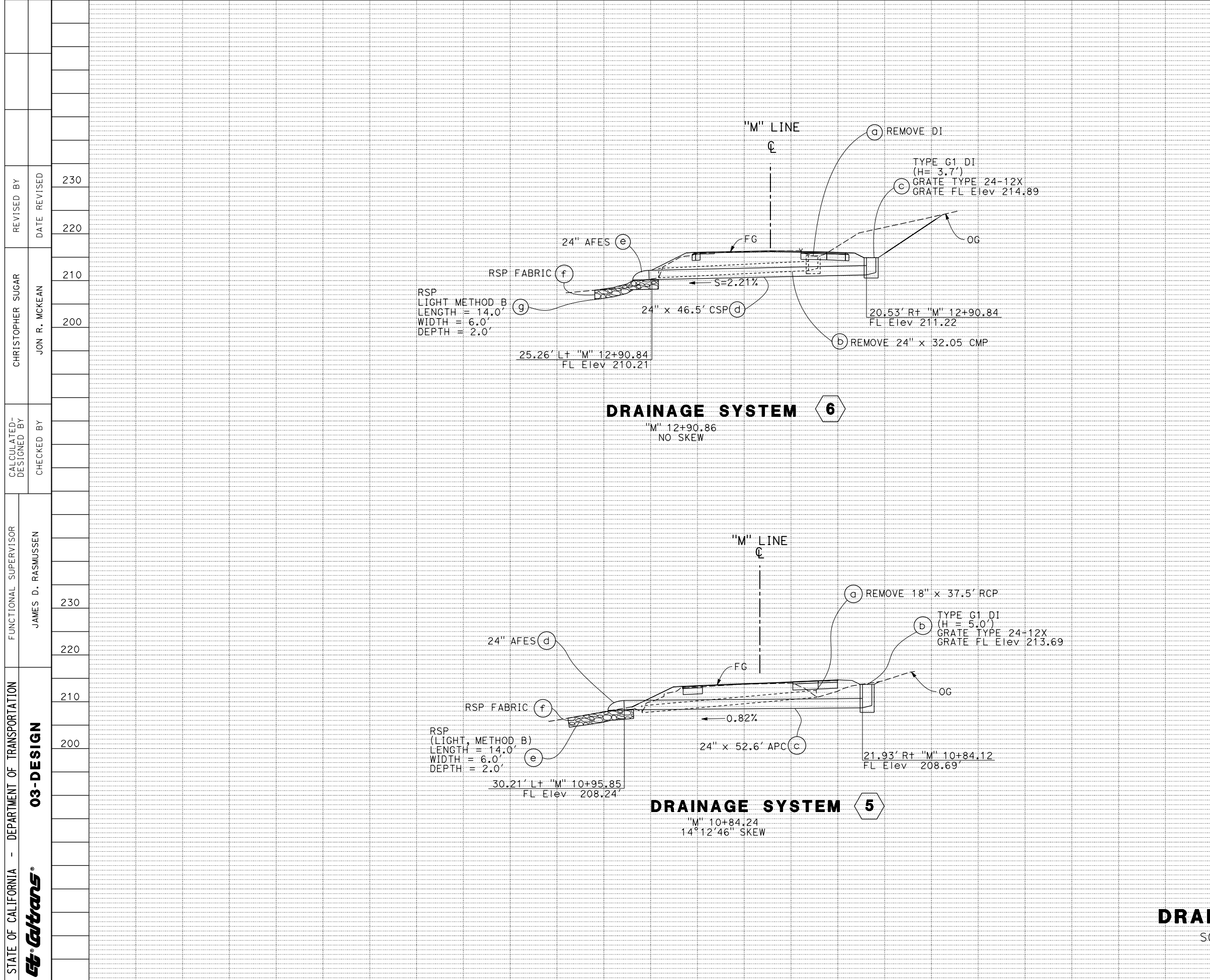
**DRAINAGE PROFILES**

SCALE: HORIZONTAL 1"=10'  
VERTICAL 1"=10'

**DP-1**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 10:59





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	MEN	1	41.8/42.3		
<b>DRAFT</b>					
REGISTERED CIVIL ENGINEER				DATE	
PLANS APPROVAL DATE					
<small>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.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR JAMES D. RASMUSSEN	REVISIONS	REVISIONS
		REVISIONS	REVISIONS
03-DESIGN	CHECKED BY	230	230
		220	220
CALCULATED-DESIGNED BY	CHECKED BY	210	210
		200	200
DESIGNED BY	CHECKED BY	230	230
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DESIGNED BY	CHECKED BY		



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Men	1	41.8/42.3		

**DRAFT**

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

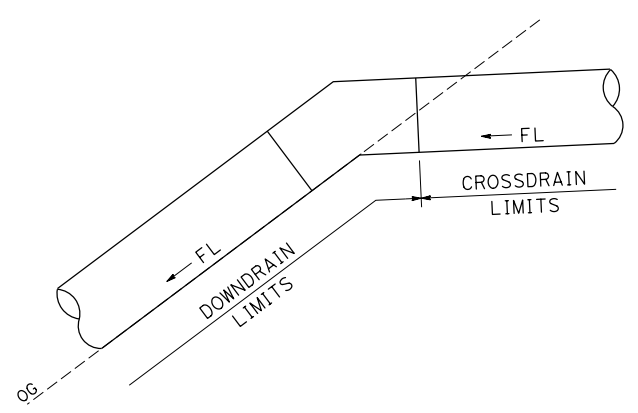
PLANS APPROVAL DATE \_\_\_\_\_

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

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.

## ALTERNATIVE PIPE CULVERT (APC) AND FLARED END SECTION (AFES) ALLOWABLE PIPE MATERIAL AND PROTECTION

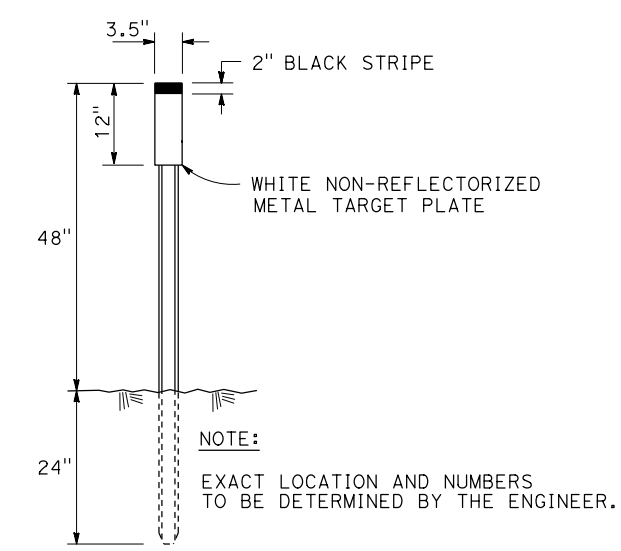
DRAINAGE SYSTEM No.	STATION	TYPE		
		HDPE	CORRUGATED STEEL PIPE (0.109" THICK)	RCP
3	M 3+08	X	X	X
4	M 9+22	X	X	X
5	M 10+84	X	X	X
6	M 12+91	X	X	X
7	M 17+92		X	



**LIMITS OF MEASUREMENT  
FOR PAYMENT**

### MARKER (CULVERT)

DRAINAGE SYSTEM No.	PM	MARKER (CULVERT)
		EA
1	41.79	L+/R+
3	41.83	L+/R+
4	41.95	L+/R+
5	41.98	L+/R+
6	42.02	L+/R+
7	42.11	L+/R+



**MARKER (CULVERT) DETAIL**

## DRAINAGE DETAILS

**DD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**03-DESIGN**  
 James D. Rasmussen  
 Functional Supervisor  
 Checked by  
 Christopher Sugar  
 Revised by  
 Jon R. McKean



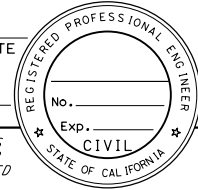
**DRAINAGE QUANTITIES**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Men	1	41.8/42.3		

**DRAFT**  
REGISTERED CIVIL ENGINEER DATE

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

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DRAINAGE SHEET No.	DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	ABANDON CULVERT	REMOVE CULVERT	REMOVE HEADWALL	REMOVE INLET	REMOVE SLOTTED DRAIN	REMOVE WING WALL	24" ALTERNATIVE PIPE CULVERT	12" STEEL FLARED END SECTION	24" ALTERNATIVE FLARED END SECTION	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	STRUCTURAL CONCRETE, BOX CULVERT	STRUCTURAL CONCRETE, DRAINAGE INLET	BAR REINFORCING STEEL	MISCELLANEOUS IRON AND STEEL	HEIGHT OF INLET (N)	MAXIMUM COVER (N)	DRAINAGE INLET MARKER *	MARKER (CULVERT)	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
1	1	1	a						2															"M" 1+39.48	1	a	
			b						2																	b	
			c													4.8		578			3.5	1		8'X6'X5.5' SINGLE BOX Culv		c	
			d													9.2		1103			3.7	1		8'X6'X10.5' SINGLE BOX Culv		d	
1	1	2	a				1																	"DWY 1" 1+79.10	2	a	
			b														1.5		239	3.8	1		TYPE GO DI, GRATE TYPE 24-12X		b		
			c				1																			c	
			d																							d	
			e									1														e	
			f												14											f	
			g										1.8													g	
1	2	3	a														0.9		236	3.8	1		TYPE GCP DI, GRATE TYPE 36R	"M" 03+07.95	3	a	
			b							76.1												3.9				b	
			c														1.6		236	6.5	1	1	TYPE GCP DI, GRATE TYPE 36R		c		
			d							77.4												5.5				d	
			e								1												1			e	
			f												27											f	
			g										6.4													g	
			h					1																		h	
			i					1																		i	
			j				1																			j	
			k	1																						k	
<b>SHEET TOTAL</b>				1	0	0	3	2	4	153.5	0	11	0.2	0	41	14.0	5.5	1681	950			4	4				

\* STAMPED CONCRETE IMPRINT  
(N) - NOT A SEPARATE BID ITEM

**DRAINAGE QUANTITIES**  
**DQ-1**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 11:00



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Men	1	41.8/42.3		

**DRAFT**  
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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**DRAINAGE QUANTITIES**

DRAINAGE SHEET No.	DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	ABANDON CULVERT	REMOVE CULVERT	REMOVE HEADWALL	REMOVE INLET	REMOVE SLOTTED DRAIN	REMOVE WING WALL	24" ALTERNATIVE PIPE CULVERT	12" STEEL FLARED END SECTION	24" ALTERNATIVE FLARED END SECTION	ROCK SLOPE PROTECTION (LIGHT, METHOD B).	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	STRUCTURAL CONCRETE, BOX CULVERT	STRUCTURAL CONCRETE, DRAINAGE INLET	BAR REINFORCING STEEL	MISCELLANEOUS IRON AND STEEL	HEIGHT OF INLET (N)	MAXIMUM COVER (N)	DRAINAGE INLET MARKER *	MARKER (CULVERT)	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
1	4	7	a	EA	EA	EA	EA	EA	EA	LF	EA	EA	CY	CY	SQYD	CY	CY	LB	LB	LF	LF	EA	EA		"M" 17+92.25	7	a
			b		1																						b
			c		1																						c
			d														1.7		239	6.5		1	1		TYPE G1 DI, GRATE TYPE 24-12X		d
			e							68.9													1				e
			f											161.8	198												f
			g																								g
SUB TOTAL					2	1				68.9				161.8	198		1.7		239				1	2			
SHEET DQ-1 TOTAL				1		3	2	4	153.5	1	1	8.2			41	14.1	5.5	1681	950			4	4				
SHEET DQ-2 TOTAL					2	1			109.8		3	13.6			67		4.1			717			3	6			
TOTAL				1	4	1	4	2	4	332.2	1	4	21.7	161.8	306	14.1	11.3	1681	1906			8	12				

\* STAMPED CONCRETE IMPRINT  
 (N) - NOT A SEPARATE BID ITEM

**DRAINAGE QUANTITIES**  
**DQ-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

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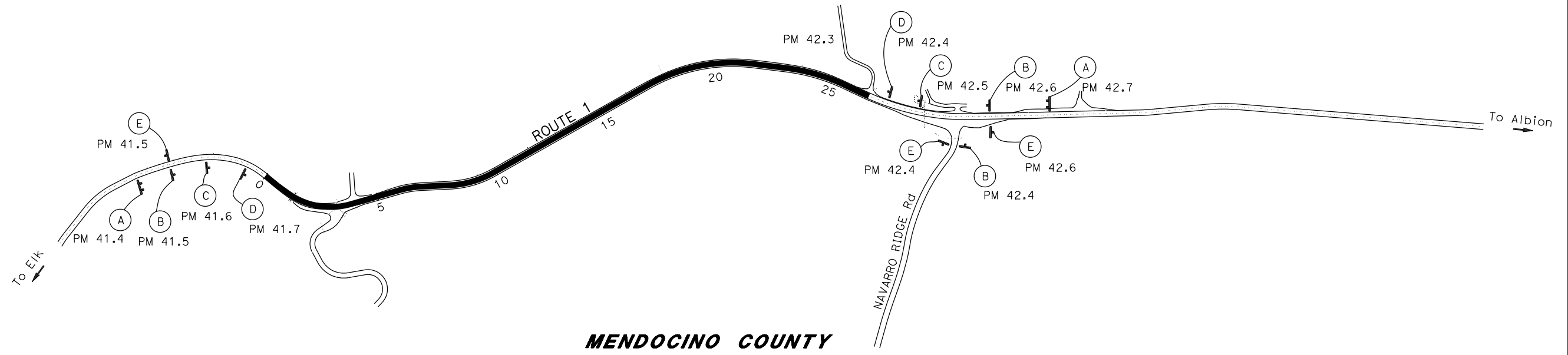
**NOTES:**

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No. (X)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS (N)
(A)	C40<CA>	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	2
(B)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	3
(C)	W8-7	36" x 36"	LOOSE GRAVEL	1 - 4" x 6"	2
(D)	W11-1 W16-1P	36" x 36" 24" x 30"	BICYCLE SYMBOL SHARE THE ROAD	1 - 6" x 6"	2
(E)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	3

(N) - NOT A SEPARATE BID ITEM



**MENDOCINO COUNTY**

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D 3 - DESIGN  
FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN  
REVISOR BY  
JAMES D. RASMUSSEN  
DATE REVISOR  
JON R. MCKEAN

BORDER LAST REVISED 7/2/2010

USERNAME => s148600  
DGN FILE => 01120003001.d001.dgn

RELATIVE BORDER SCALE IS IN INCHES  
0 1 2 3

UNIT 0306

PROJECT NUMBER & PHASE

01120003001

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 11:00  
LAST REVISION  
03-06-20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE




REG. NO. C 61308  
EXP. 06-30-21  
JON MCKEAN  
CIVIL  
STATE OF CALIFORNIA

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**NOTES:**

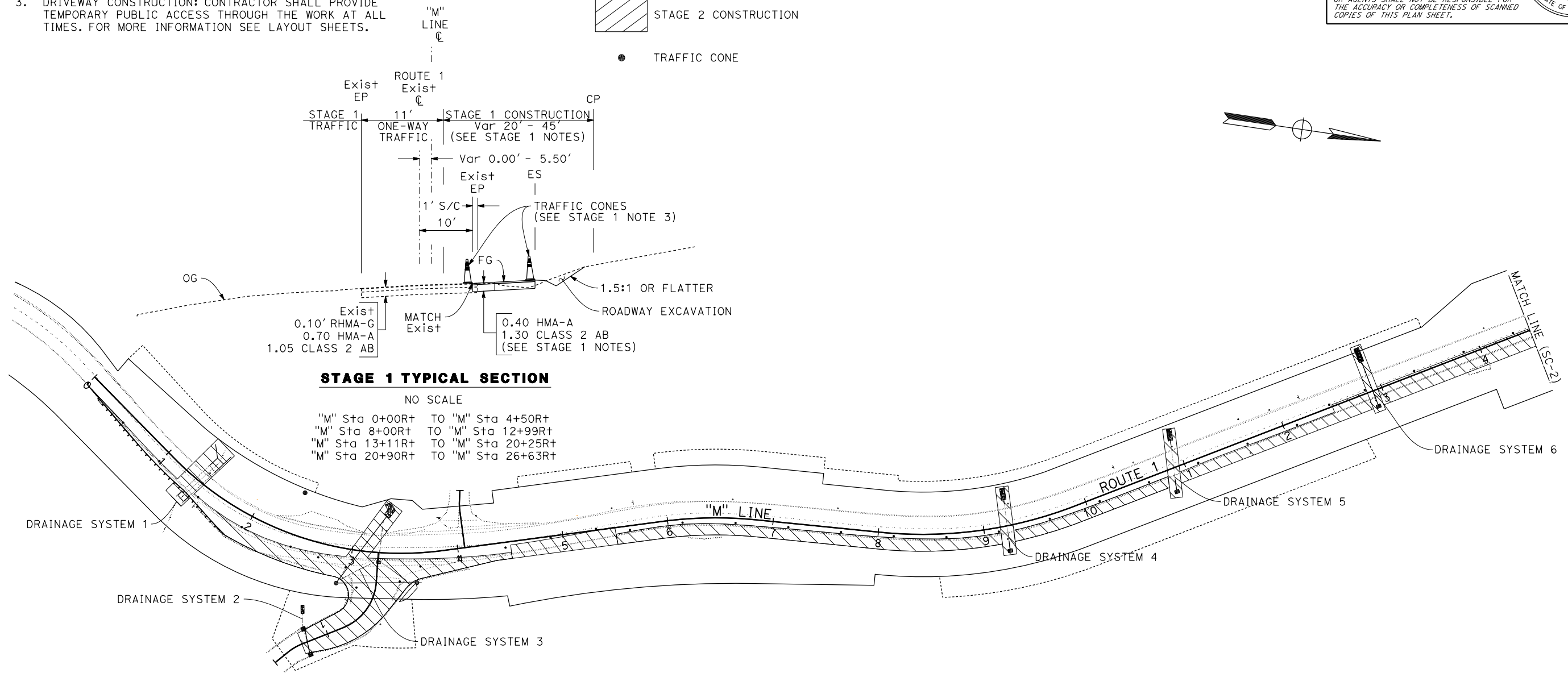
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR DRAINAGE WORK, SEE DRAINAGE PLANS AND PROFILES.
- DRIVEWAY CONSTRUCTION: CONTRACTOR SHALL PROVIDE TEMPORARY PUBLIC ACCESS THROUGH THE WORK AT ALL TIMES. FOR MORE INFORMATION SEE LAYOUT SHEETS.

**LEGEND:**

-  STAGE 1 CONSTRUCTION
-  STAGE 2 CONSTRUCTION
-  TRAFFIC CONE

**ABBREVIATIONS:**

- BWC-G BONDED WEARING COURSE (GAP GRADED)
- DE DRAINAGE EASEMENT



**STAGE 1 NOTES (SC-1 & SC-2)**

- CONSTRUCT DRAINAGE SYSTEMS 1,2,3,4,5,6, AND 7.
- CONSTRUCT BASE TO MATCH Exist TO ALLOW FOR 2-WAY TRAFFIC BY THE END OF THE DAY. REMOVE EXCESS BASE TO BUILD STRUCTURAL SECTIONS TO MATCH Exist.
- MOVE TRAFFIC CONES TO ALLOW FOR 2-WAY TRAFFIC ON Exist ROAD.
- CONSTRUCT GAURDRAIL FROM "M" R+ 0+18 TO 1+81.

**STAGE CONSTRUCTION PLAN (STAGE 1)**

SCALE: 1"=50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

**SC-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D3-DESIGN  
FUNCTIONAL SUPERVISOR: JAMES D. RASMUSSEN  
DESIGNED BY: [blank]  
CHECKED BY: [blank]  
DUNG SY: JON R. MCKEAN  
REVISOR: [blank]  
DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

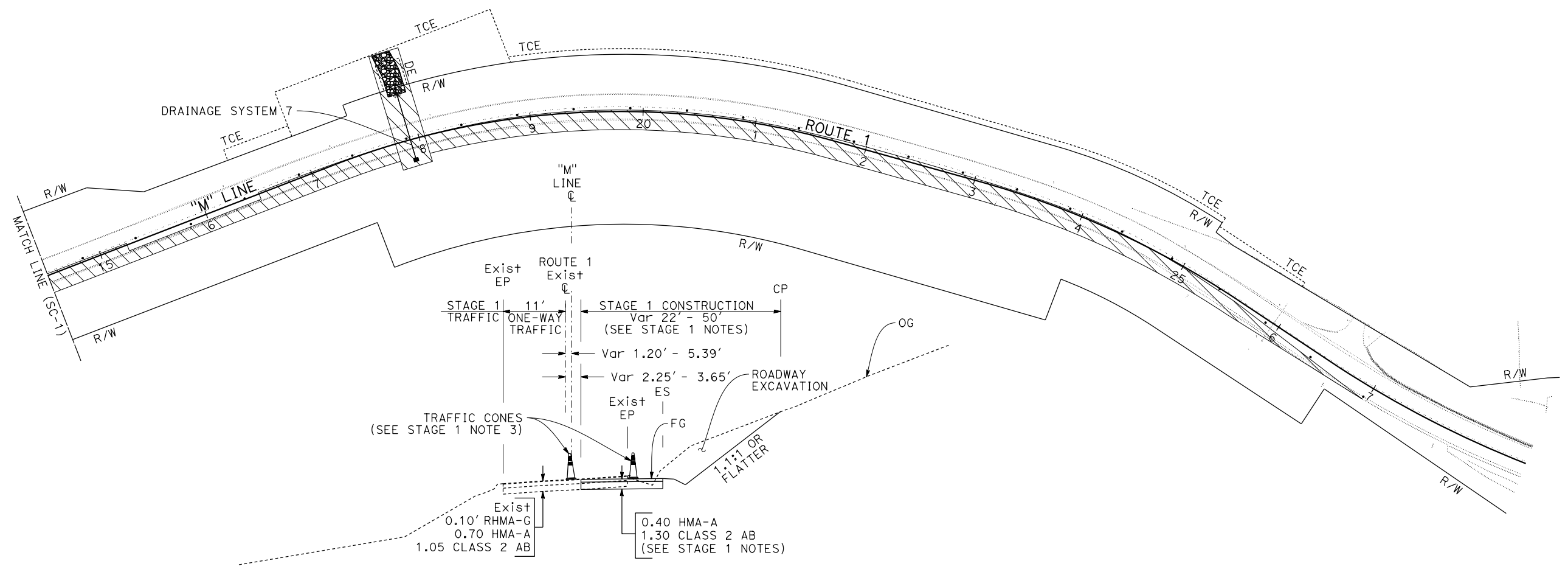
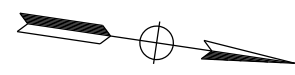
**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

REG. NO. C 61308  
EXP. DATE 06-30-21  
JON MCKEAN  
CIVIL ENGINEER  
STATE OF CALIFORNIA

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**NOTES:**  
1. FOR ADDITIONAL STAGE CONSTRUCTION NOTES, SEE STAGE CONSTRUCTION SHEET SC-1.



**STAGE 1 TYPICAL SECTION**

NO SCALE  
"M" Sta 4+50R+ TO "M" Sta 5+50R+  
"M" Sta 12+50R+ TO "M" Sta 15+25R+  
"M" Sta 16+50R+ TO "M" Sta 26+95.98R+

**STAGE CONSTRUCTION PLAN (STAGE 1)**

SCALE: 1"=50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**D 3 - DESIGN**  
FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN  
DESIGNED BY  
CHECKED BY  
DUNG SY  
JON R. MCKEAN  
REVISOR  
DATE REVISOR

BORDER LAST REVISED 7/2/2010

USERNAME => s148600  
DGN FILE => 0112000300ma002.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

UNIT 0306

PROJECT NUMBER & PHASE

01120003001

**SC-2**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 11:00  
LAST REVISION  
02-25-20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

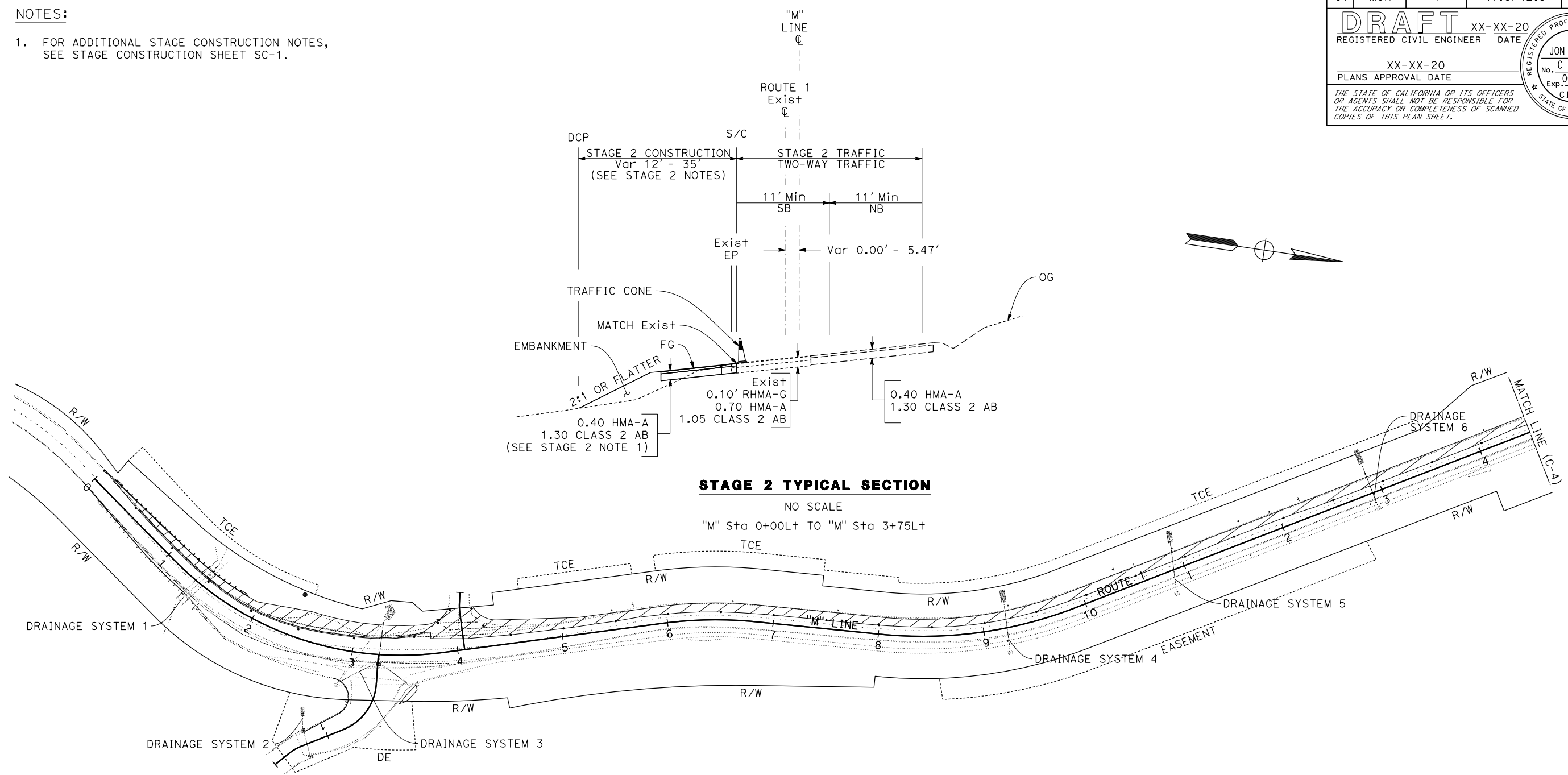
<b>DRAFT</b> XX-XX-20	
REGISTERED CIVIL ENGINEER	DATE
XX-XX-20	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER <b>JON MCKEAN</b> No. C 61308 Exp. 06-30-21 CIVIL STATE OF CALIFORNIA
---

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.

**NOTES:**  
 1. FOR ADDITIONAL STAGE CONSTRUCTION NOTES, SEE STAGE CONSTRUCTION SHEET SC-1.



- STAGE 2 NOTES (SC-3 & SC-4)**
1. CONSTRUCT GEOSYNTHETIC REINFORCED EMBANKMENT FROM "M" Sta 16+75 TO "M" 17+55.
  2. CONSTRUCT ROADWAY SECTIONS TO MATCH Exist.
  3. CONSTRUCT GUARDRAIL FROM "M" L+ 0+11.00 TO 1+84, AND L+ 17+66 TO 23+75.

**STAGE CONSTRUCTION PLAN (STAGE 2)**

SCALE: 1"=50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

**SC-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
 D3-DESIGN

FUNCTIONAL SUPERVISOR: JAMES D. RASMUSSEN  
 CHECKED BY: [Blank]  
 DESIGNED BY: [Blank]  
 DUNG SY: JON R. MCKEAN  
 REVISOR: [Blank]  
 DATE REVISED: [Blank]





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**JON MCKEAN**  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

**NOTES**

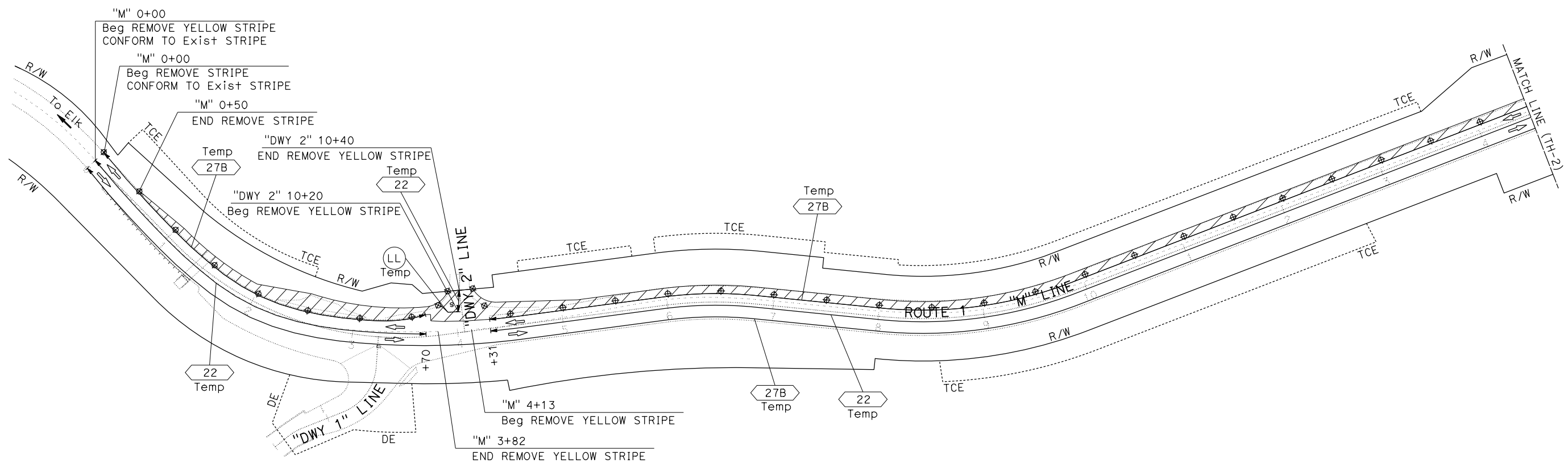
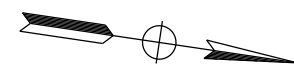
1. TRAFFIC HANDLING PLANS ARE FOR STAGE 2 CONSTRUCTION ONLY
2. ALL PLASTIC TRAFFIC DRUMS SHALL BE INSTALLED ON 50' CENTERS UNLESS SHOWN OTHERWISE
3. SEE STAGE CONSTRUCTION QUANTITY TABLE SHEET TH-2 FOR PLASTIC TRAFFIC DRUM QUANTITY

**LEGEND**

- Temp # TEMPORARY TRAFFIC STRIPE DETAIL NUMBER
- ⊕ PLASTIC TRAFFIC DRUM
- ▨ STAGE 2 CONSTRUCTION
- S "STOP" MARKING
- Ⓛ Temp TEMPORARY LIMIT LINE

**ABBREVIATION**

- DE DRAINAGE EASEMENT
- REMOVE STRIPE REMOVE THERMOPLASTIC TRAFFIC STRIPE
- REMOVE YELLOW STRIPE REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobran**  
 D 3 - DESIGN  
 FUNCTIONAL SUPERVISOR  
 JAMES D. RASMUSSEN  
 CHECKED BY  
 JON R. MCKEAN  
 TUONGVY S. NGUYEN  
 REVISOR BY  
 DATE REVISOR

**TRAFFIC HANDLING PLAN (STAGE 2)**  
 SCALE: 1"=50'  
**TH-1**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

DATE PLOTTED => 08-APR-2020  
 TIME PLOTTED => 11:01

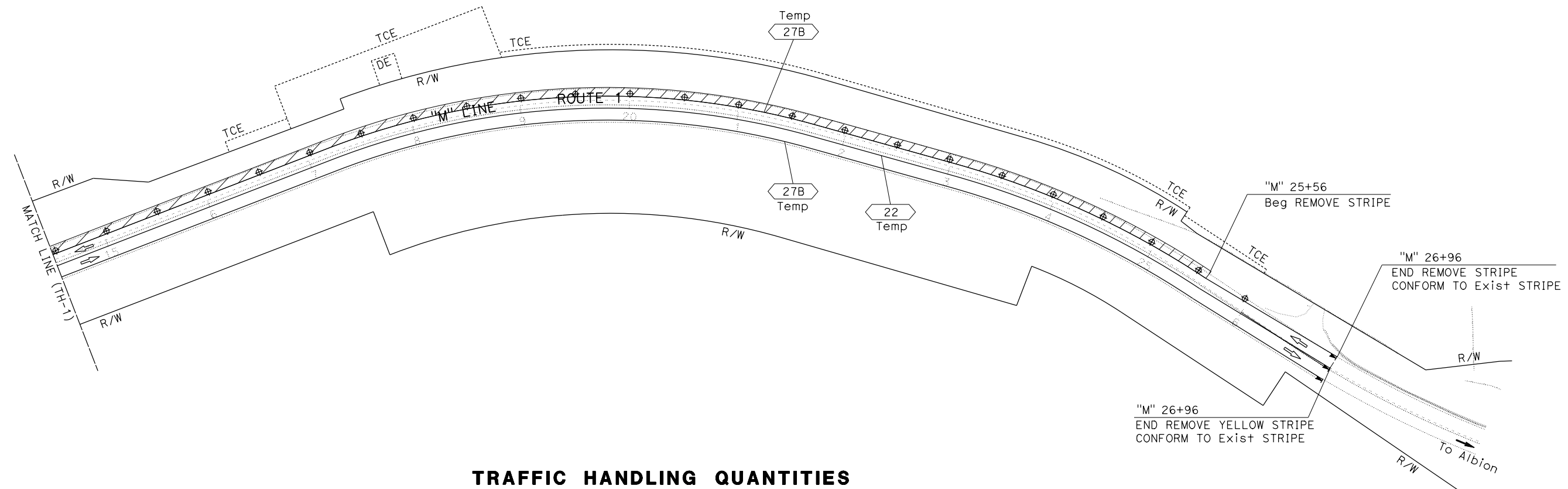
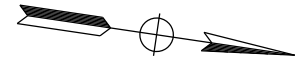
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
PLANS APPROVAL DATE

JON MCKEAN  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA

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**TRAFFIC HANDLING QUANTITIES**

SHEET No.	STATION	TEMPORARY TRAFFIC STRIPE (PAINT)		TEMPORARY PAVEMENT MARKER	TEMPORARY PAVEMENT MARKING (PAINT)		REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE MARKER
		DETAIL 22	DETAIL 27B		LIMIT LINE	"STOP" WORD			
		LF	LF						
TH-1	"M" 00+00 TO 14+50	2782	2842	122			49	1418	122
	"DWY 2" 10+20 TO 10+40	40			19	22		20	
TH-2	"M" 14+50 TO 26+81	2456	2456	104			140	1249	106
SUBTOTAL		5278	5298		19	22			
TOTAL		10,576		226	41		189	2687	228

**TRAFFIC HANDLING PLAN AND QUANTITIES (STAGE 2)**  
SCALE: 1"=50'

**TH-2**

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
D 3 - DESIGN

FUNCTIONAL SUPERVISOR  
JAMES D. RASMUSSEN

CHECKED BY  
JON R. MCKEAN

DESIGNED BY  
TUONGVY S. NGUYEN

REVISOR  
DATE

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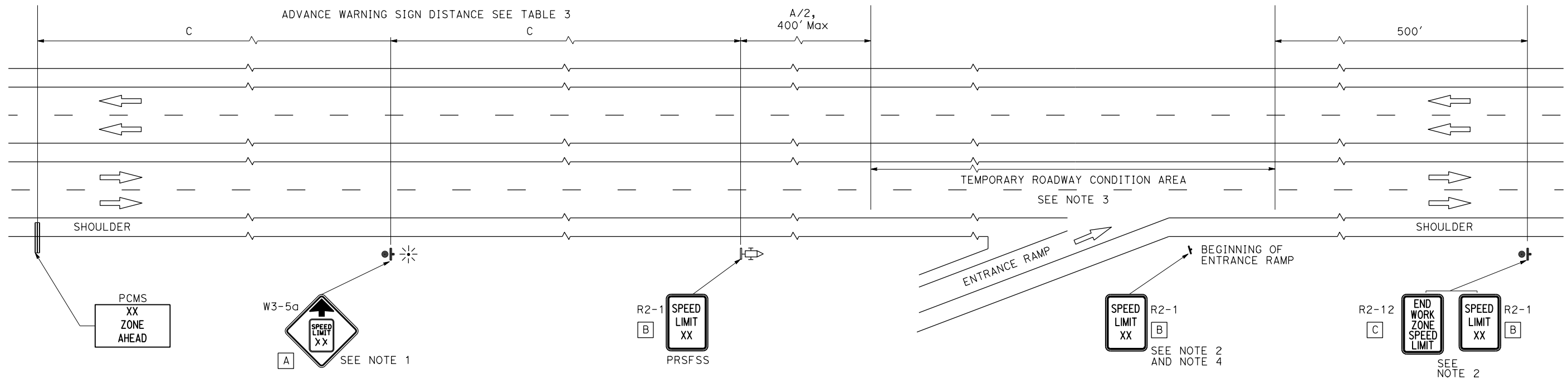
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

*Sheri M. Rodriguez* 10-7-19  
 REGISTERED CIVIL ENGINEER DATE  
**DRAFT**  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 SHERI M. RODRIGUEZ  
 No. C66861  
 Exp. 9-30-20  
 CIVIL  
 STATE OF CALIFORNIA

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**NOTES:**

See Standard Plan T9 for tables.  
 Cover existing speed limit signs when speed reduction is in place.  
 If temporary roadway conditions impact opposing traffic, place additional set of components facing opposite direction in advance of the temporary roadway condition area.



**SPEED REDUCTION FOR CONVENTIONAL HIGHWAYS, EXPRESSWAYS AND FREEWAYS  
 WITHOUT ACTIVE CONSTRUCTION ACTIVITIES**

**NOTES:**

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated during hours of darkness.
- Place R2-1 and R2-12 signs on Type III barricades. R2-1 sign is not needed if the next R2-1 is less than 1 mile downstream from the end of the closure.
- Use when no active construction activities are occurring, and temporary roadway conditions are in place that impact traffic such as traffic shift, reduced lane or shoulder widths, areas with temporary barrier placed adjacent to traffic, uneven pavement or bridge surface, or when temporary pavement markers are in place.
- Place additional R2-1 signs at entrance ramps and driveways within the temporary roadway condition area.

**LEGEND**

- TRAFFIC CONE
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- ⌋ PORTABLE RADAR SPEED FEEDBACK SIGN SYSTEMS (PRSFSS)
- ⌋ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 24" x 30"
- C 24" x 36"

**TRAFFIC CONTROL SYSTEM**  
**TRAFFIC HANDLING DETAIL**  
**THD-2**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC OPERATIONS  
 FUNCTIONAL SUPERVISOR  
 SHERI RODRIGUEZ  
 CALCULATED BY  
 JAYNE NORDSTROM  
 CHECKED BY  
 LINDA JONES  
 REVISED BY  
 DATE  
 REVISED  
 DATE

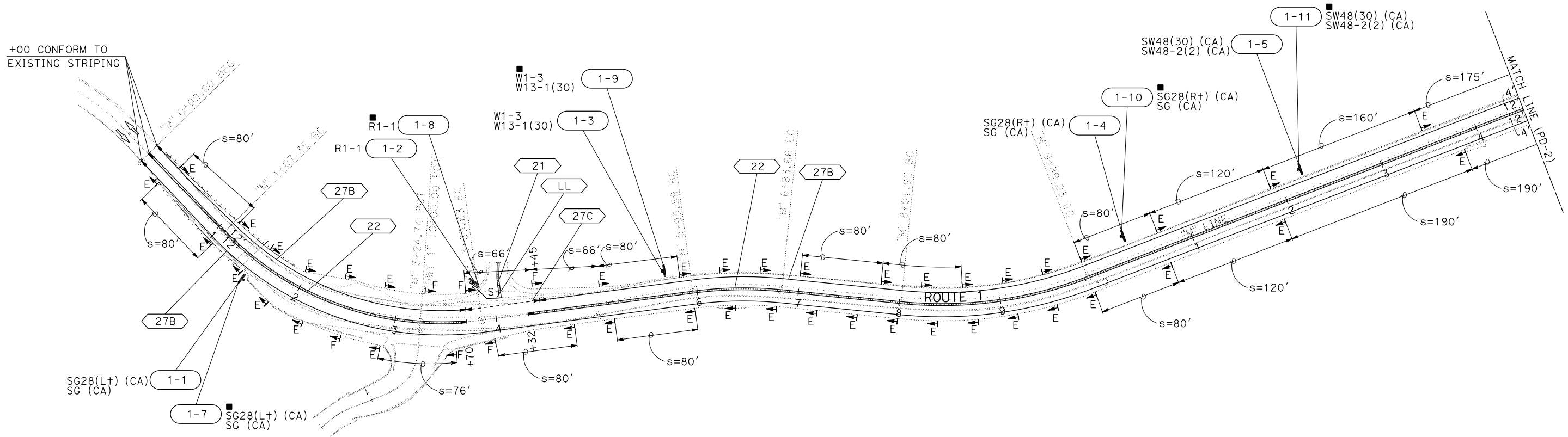
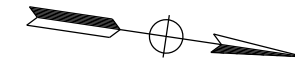
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		
<b>DRAFT</b> XX-XX-20 REGISTERED CIVIL ENGINEER DATE					
XX-XX-20 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

**NOTES:**

1. LOCATION OF ROADSIDE SIGNS ARE APROXIMATE. EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. SIGN POST LENGTHS ARE APROXIMATE. EXACT SIZE AND LENGTHS WILL BE DETERMINED BY THE ENGINEER.
3. ALL LANES ARE 12' WIDE UNLESS SHOWN OTHERWISE.
4. DELINEATORS NEAR GUARDRAIL SHALL BE MOUNTED ON THE GUARDRAIL.
5. DELINEATOR SPACING 40' UNLESS OTHERWISE SHOWN.

**LEGEND:**

- REMOVE ROADSIGN SIGN
- ▲ RESET ROADSIGN SIGN
- LL LIMIT LINE
- S "STOP" PAVEMENT MARKING
- s= DELINEATOR SPACING
- E DELINEATOR TYPE E
- F DELINEATOR TYPE F



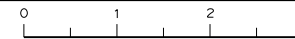
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**D3-DESIGN**  
 FUNCTIONAL SUPERVISOR: JAMES D. RASMUSSEN  
 CHECKED BY: JON R. MCKEAN  
 DESIGNED BY: SVETLA MITOVA  
 REVISOR: SVETLA MITOVA  
 DATE REVISOR: JON R. MCKEAN  
 DATE REVISOR:

**PAVEMENT DELINEATION AND SIGN PLAN**

SCALE: 1" = 50'

**PD-1**

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY



LAST REVISION: ##-##-##  
 DATE PLOTTED => 08-APR-2020  
 TIME PLOTTED => 11:01

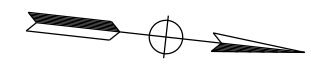
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
REGISTERED CIVIL ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER  
**JON MCKEAN**  
No. C 61308  
Exp. 06-30-21  
CIVIL  
STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
**D 3 - DESIGN**

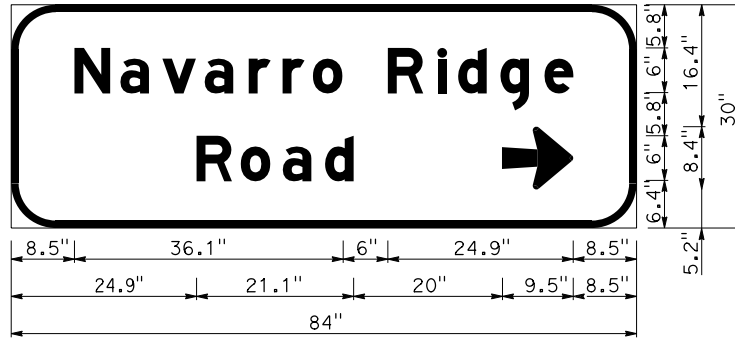
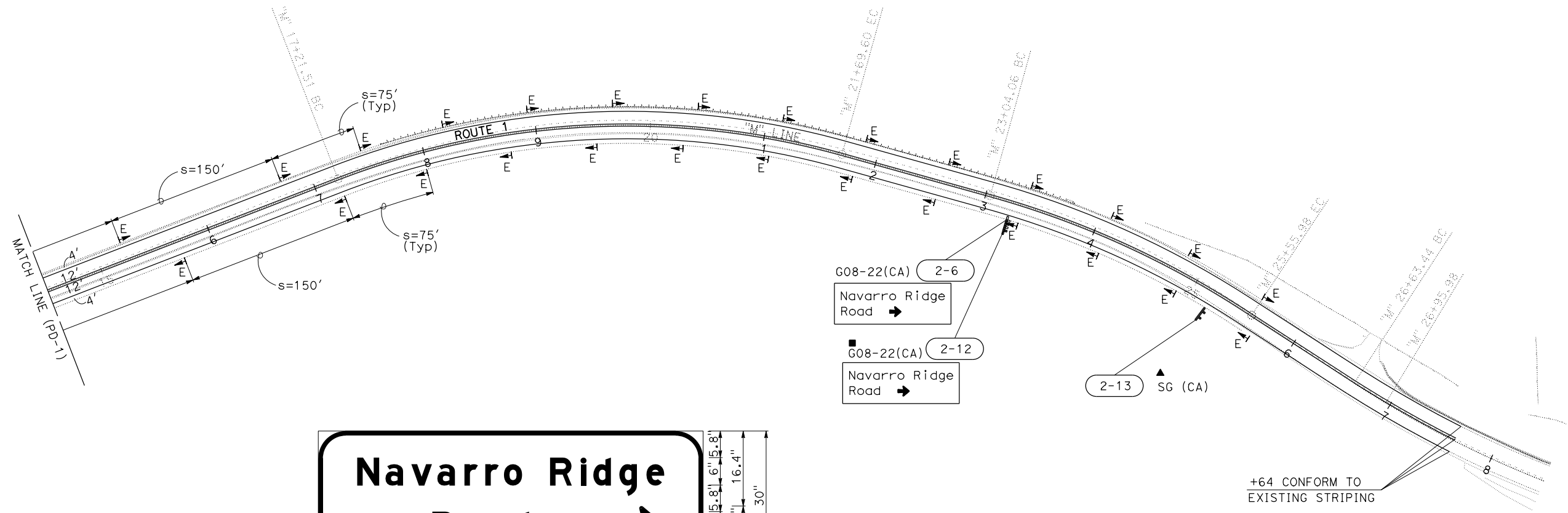
FUNCTIONAL SUPERVISOR  
**JAMES D. RASMUSSEN**

CALCULATED - DESIGNED BY  
**SVETLA MITOVA**

CHECKED BY  
**JON R. MCKEAN**

REVISOR BY  
**DATE**

REVISOR DATE



3.0" RADIUS, 1.0" BORDER, WHITE ON GREEN  
"NAVARRO RIDGE" E MOD; "ROAD" E MOD;  
ARROW 6"UC-1 LINE - 9.6" 0°;

2-6 G08-22 <CA>

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

**PAVEMENT DELINEATION AND SIGN PLAN**

SCALE: 1" = 50'

**PD-2**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 11:01  
##-##-##

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**D 3 - DESIGN**

FUNCTIONAL SUPERVISOR  
 JAMES D. RASMUSSEN

CALCULATED-DESIGNED BY  
 CHECKED BY

SVETLA MITOVA  
 JON R. MCKEAN

REVISED BY  
 DATE REVISED

**NOTES:**

- 1. THE COLOR OF THE MARKER BODY MUST BE THE SAME AS THE TRAFFIC LINE PLACED.

**PAVEMENT DELINEATION QUANTITIES**

SHEET No.	LOCATION	PAVEMENT MARKER (RETROREFLECTIVE)	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)			THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)		6" THERMOPLASTIC TRAFFIC STRIPE (EWNV) (BROKEN 12-3)	DELINEATOR (CLASS 1)			
			TYPE D	DETAIL 21	DETAIL 22	DETAIL 27B	STOP		LIMIT LINE	DETAIL 27C	TYPE E	TYPE F
			EA	LF	LF	LF	SQFT		SQFT	LF	EA	EA
PD-1	"M" 0+00 TO 14+50	122	35	1390	2827	22	26	74	42	6		
PD-2	"M" 14+50 TO 26+96	118		1315	2629				27			
<b>TOTAL</b>		240	8196			48		74	75			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
 REGISTERED CIVIL ENGINEER DATE

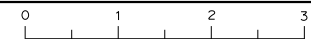
XX-XX-20  
 PLANS APPROVAL DATE

JON MCKEAN  
 No. C 61308  
 Exp. 06-30-21  
 CIVIL  
 STATE OF CALIFORNIA

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**PAVEMENT DELINEATION QUANTITIES**

**PDQ-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

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XX-XX-20  
PLANS APPROVAL DATE

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**NOTES:**

- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- POST LENGTHS GIVEN ARE APPROXIMATE.
- "C" DIM = VERTICAL CLEARANCE FROM EP TO BOTTOM OF SIGN PANEL.
- ALL SIGN DESIGNATIONS SHOWN ARE FEDERAL UNLESS OTHERWISE INDICATED AS A CALIFORNIA <CA> SIGN DESIGNATION.

**ROADSIDE SIGN QUANTITIES**

SIGN NUMBER (SHT-No.)	SIGN DESIGNATION	PANEL SIZE	"C" DIM IN FEET	POST SIZE AND LENGTH		ROADSIDE SIGN		RESET ROADSIDE SIGN (TWO POST)	REMOVE ROADSIDE SIGN EA	TREATED WOOD WASTE LB
				4"x4"	4"x6"	ONE POST EA	TWO POST EA			
		INCHES								
1-1	SG 28(L+) (CA) SG (CA)	30 x 30 30 x 12	4		15'	1				
1-2	R1-1	30 x 30	5	13'		1				
1-3	W1-3 W13-1(30)	36 x 36 30 x 30	4		14'	1				
1-4	SG 28(R+) (CA) SG (CA)	30 x 30 30 x 12	4		15'	1				
1-5	SW 48(30) (CA) SW 48-2(2) (CA)	48 x 36 48 x 12	4		15.5'	1				
2-6	G08-22(CA)	84 X 30	5		14'		1			
1-7	SG 28(L+) (CA) SG (CA)								1	86
1-8	R1-1								1	50
1-9	W1-3 W13-1(30)								1	80
1-10	SG 28(R+) (CA) SG (CA)								1	86
1-11	SW 48(30) (CA) SW 48-2(2) (CA)								1	89
2-12	G08-22(CA)								1	160
2-13	SG (CA)							1		
<b>TOTAL</b>						<b>5</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>551</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
 D 3 - DESIGN  
 FUNCTIONAL SUPERVISOR  
 JAMES D. RASMUSSEN  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 SVETLA MITOVA  
 JON R. MCKEAN  
 REVISED BY  
 DATE REVISED

**SIGN QUANTITIES**

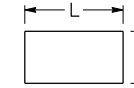
**SQ-1**

DATE PLOTTED => 08-APR-2020  
 TIME PLOTTED => 11:01  
 LAST REVISION



**NOTES:**

- ALL SIGN DESIGNATIONS SHOWN ARE FEDERAL UNLESS OTHERWISE INDICATED AS A CALIFORNIA (CA) SIGN DESIGNATION.
- ALL BLACK SIGN PANEL LEGEND SHEETING SHALL BE NON-REFLECTIVE.



L = LENGTH OF PANEL  
D = DEPTH OF PANEL

**ROADSIDE SIGN PANEL QUANTITIES**

SIGN DESIGNATION	SIGN MESSAGE/DESCRIPTION	PANEL SIZE L x D		NUMBER OF PANELS	BACKGROUND		LEGEND		PROTECTIVE-OVERLAY FILM (PREMIUM)	RETROREFLECTIVE SHEETING (TYPE XI)	FURNISH SINGLE SHEET ALUMINUM SIGN FOR RETROREFLECTIVE SHEETING (TYPE XI)		
		INCHES	SQFT		SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE			UNFRAMED		FRAMED
											0.063"	0.080"	0.080"
R1-1	STOP	30	5.18	1	RED	XI	WHITE	XI	X	5.18	5.18		
W1-3	REVERSE TURN RT	36 X 36	9.00	1	YELLOW	XI	BLACK		X	9.00	9.00		
W13-1(30)	ADVISORY SPEED	30 X 30	6.25	1	YELLOW	XI	BLACK		X	6.25	6.25		
SW48(30) (CA)	TRACTOR-SEMI OVER 30 FEET KINGPIN TO REAR AXLE NOT ADVISED	48 X 36	12.00	1	YELLOW	XI	BLACK		X	12.00		12.00	
SW48-2(2) (CA)	NEXT 2 MILES	48 X 12	4.00	1	YELLOW	XI	BLACK		X	4.00		4.00	
SG 28(R+) (CA)	COASTAL VIEW	30 X 30	6.25	1	BROWN	XI	WHITE	XI	X	6.25	6.25		
SG (CA)	NO RVs	30 X 12	2.50	2	BROWN	XI	BROWN	XI	X	5.00	5.00		
SG 28(L+) (CA)	COASTAL VIEW	30 X 30	6.25	1	BROWN	XI	WHITE	XI	X	6.25	6.25		
G08-22(CA)	NAVARO RIDGE ROAD →	84 X 30	17.50	1	GREEN	XI	WHITE	XI	X	17.50			17.50
<b>TOTAL</b>										71.43	37.93	16.00	17.50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 D 3 - DESIGN  
 JAMES D. RASMUSSEN  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 SVETLA MITOVA  
 REVISIONS BY  
 DATE

**SIGN QUANTITIES**

**SQ-2**

DATE PLOTTED => 08-APR-2020  
TIME PLOTTED => 11:01

x  
x  
x  
x  
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**DRAFT** XX-XX-20  
 REGISTERED CIVIL ENGINEER DATE

XX-XX-20  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 JON MCKEAN  
 No. C 61308  
 Exp. 06-30-21  
 CIVIL  
 STATE OF CALIFORNIA

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**TEMPORARY HIGH-VISIBILITY FENCE**

STAGE	L+/R+	STATION	TEMPORARY HIGH-VISIBILITY FENCE
			LF
1	R+	"M" 10+43.62 TO 10+64.90	81'
2	L+	"M" 1+78.58 TO 4+50.80	569'

**ROADWAY QUANTITIES SUMMARY TABLE**

STAGE	LOCATION	ROADWAY EXCAVATION	EMBANKMENT ( N )	GEOSYNTHETIC REINFORCEMENT EMBANKMENT	CLASS 1 PERMEABLE MATERIAL (BLANKET)	CLASS 3 PERMEABLE MATERIAL (BLANKET)	CLASS C FILTER FABRIC	GEOSYNTHETIC REINFORCEMENT	SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	CLASS 2 AGGREGATE BASE	HOT MIX ASPHALT (TYPE A)	BONDED WEARING COURSE- GAP GRADED	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC)	TACK COAT	REMOVE ASPHALT CONCRETE DIKE	COLD PLANE ASPHALT CONCRETE PAVEMENT	MIDWEST GUARDRAIL SYSTEM (STEEL POST)	MIDWEST GUARDRAIL SYSTEM (8' POST)	VEGETATION CONTROL (MINOR CONCRETE)	END ANCHOR ASSEMBLY(TYPE SFT)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	CABLE RAILING	12" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)
		CY	CY	CY	CY	CY	SQYD	SQYD	SQYD	CY	TON	TON	SQYD	TON	LF	SQYD	LF	LF	SQYD	EA	EA	LF	STA
1		10,923	132						2667	1166	753		1228	1.0	253	692	112.5		73.7	1	1		
2	"M" 0+00 TO 27+64	389	4290	650	70	95	990	700	773	354	837		1228	1.0		601	62.5	512.5	251.4		4	20	
3												510		3.2		369							26.5
<b>TOTAL</b>		11,312	4422	650	70	95	990	700	3440	1520	1590	510	2457	5.2	253	1662	175.0	512.5	325.1	1	5	20	26.5

(N) - NOT A SEPARATE BID ITEM

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**

	TEMPORARY SILT FENCE	TEMPORARY REINFORCED SILT FENCE	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY CHECK DAM	TEMPORARY FIBER ROLL	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY TACKED STRAW	RAIN EVENT ACTION PLAN (REAP)	STORMWATER ANNUAL REPORT	STORMWATER SAMPLING AND ANALYSIS DAY
	LF	LF	EA	LF	LF	EA	SQYD	EA	SQYD	EA	EA	EA
<b>TOTAL</b>	535	2660	8	70	5320	1	12,700	7	12,700	39	3	66

**SUMMARY OF QUANTITIES**

**Q-1**

DATE PLOTTED => 08-APR-2020  
 TIME PLOTTED => 11:01

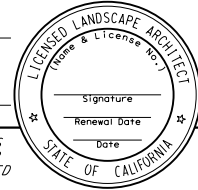
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

**M300**  
LICENSED LANDSCAPE ARCHITECT

DRAFT

PLANS APPROVAL DATE

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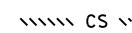
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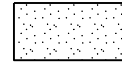
EROSION CONTROL (TYPE 1), FOR 2:1 OR FLATTER



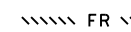
ROLLED EROSION CONTROL PRODUCT (NETTING)



COMPOST SOCK, AT TOE OF CUT SLOPE



EROSION CONTROL (TYPE 2), FOR >2:1



FIBER ROLLS



DUFF BERM, AT TOE OF FILL SLOPE

**ABBREVIATIONS:**

FRM FIBER REINFORCED MATRIX  
HBGM HYDRAULIC BIOTIC GROWTH MEDIUM

**EROSION CONTROL (TYPE 1)**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	DUFF	DUFF		SPREAD TO A UNIFORM THICKNESS
STEP 2	HYDRAULIC BIOTIC GROWTH MEDIUM	SEED	SEED MIX	40 LB/AC
		HBGM		1000 LB/ACRE
STEP 3	FIBER REINFORCED MATRIX	FRM		1500 LB/ACRE

**DUFF BERM**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
INSTALL BEFORE EC (TYPE 1) AND EC (TYPE 2)	DUFF BERM	DUFF		0.037 CY/LF

**EROSION CONTROL (TYPE 2)**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE
		DESCRIPTION	TYPE	
STEP 1	HYDRAULIC BIOTIC GROWTH MEDIUM	SEED	SEED MIX	40 LB/AC
		HBGM		1000 LB/ACRE
STEP 2	FIBER REINFORCED MATRIX	FRM		1500 LB/ACRE

**RECP (NETTING)**

SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
INSTALL BEFORE EC (TYPE 1) AND EC (TYPE 2)	RECP (NETTING)	COIR NETTING	TYPE A	8-GAUGE, 8-INCH STEEL STAPLE

**SEED MIX**

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (YARROW)	60	.5
ARTEMISIA CALIFORNICA (COASTAL SAGEBRUSH)	20	1
DESCHAMPSIA CESPITOSA (TUFTED HAIR GRASS)	50	10
ERIOPHYLLUM STAECHADIFOLIUM (SEASIDE WOOLLY SUNFLOWER)	30	2
FESTUCA MICROSTACHYS (SMALL FESCUE)	45	3
FESTUCA RUBRA (RED FESCUE)	60	6
LUPINUS BICOLOR (MINIATURE LUPINE)	60	5
MIMULUS AURANTIACUS (STICKY MONKEY FLOWER)	30	.5
STIPA PULCHRA (PURPLE NEEDLEGRASS)	60	12

**FIBER ROLLS**

SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
INSTALL BEFORE EC (TYPE 1) AND EC (TYPE 2)	FIBER ROLLS	FIBER ROLL	10" TO 12" Dia	TYPE 1 INSTALLATION

**COMPOST SOCK**

SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
INSTALL BEFORE EC (TYPE 1) AND EC (TYPE 2)	COMPOST SOCK	COMPOST FILLED BIODEGRADABLE TUBE	8" Dia	INSTALL STAKE ADJACENT TO BOTTOM EDGE

**EROSION CONTROL LEGEND  
ECL-1**

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 GILBERTS® LANDSCAPE ARCHITECTURE  
 FUNCTIONAL SUPERVISOR  
 TIMOTHY L. BOESE  
 CALCULATED BY  
 CHECKED BY  
 PHLORA BARBASH  
 REVISOR BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

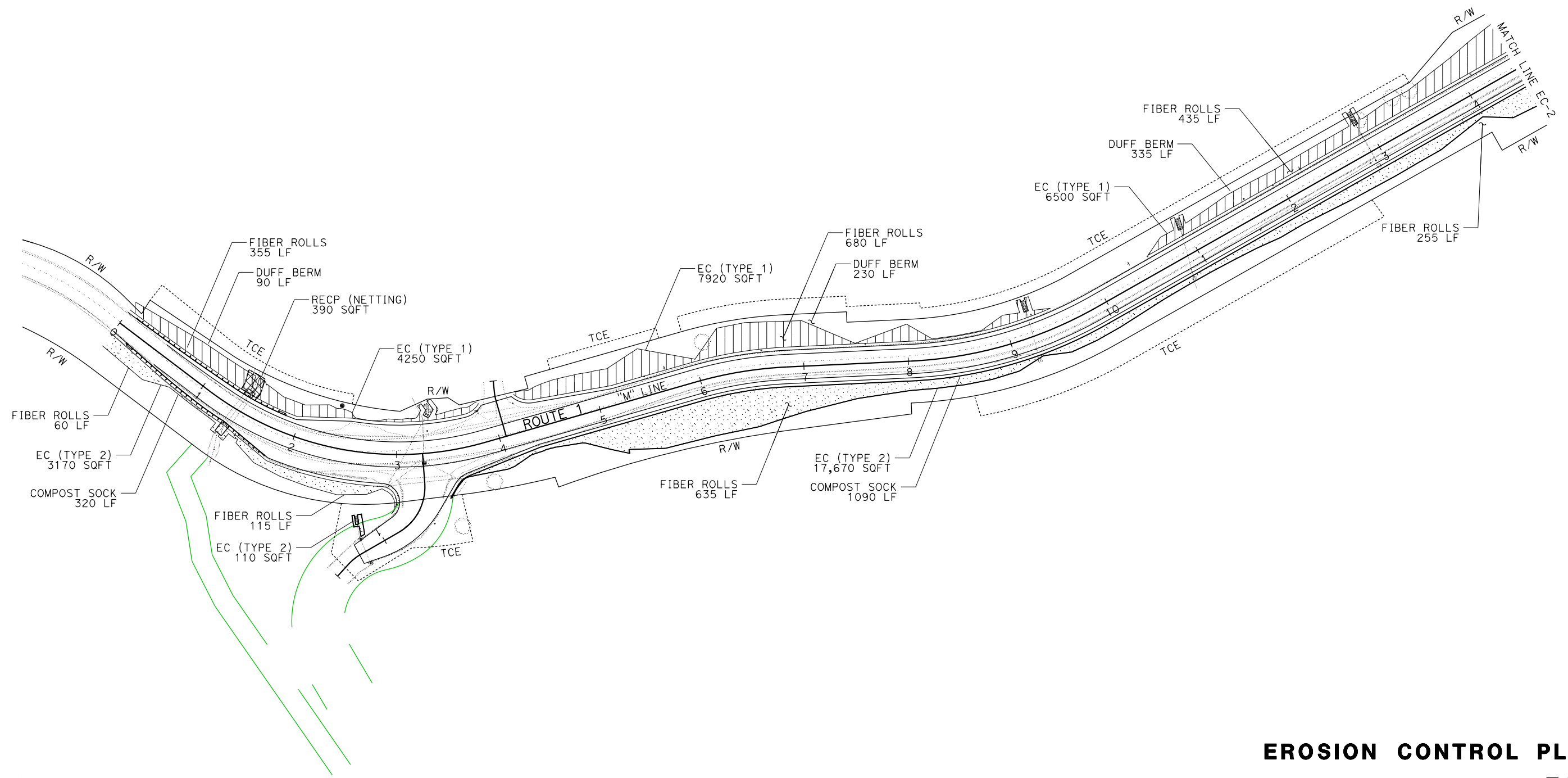
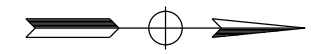
  

<b>M300</b>	
LICENSED LANDSCAPE ARCHITECT	
<b>DRAFT</b>	
PLANS APPROVAL DATE	

LICENSED LANDSCAPE ARCHITECT  
 State of California License No. \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Renewal Date \_\_\_\_\_  
 Date \_\_\_\_\_  
 STATE OF CALIFORNIA

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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** LANDSCAPE ARCHITECTURE  
 FUNCTIONAL SUPERVISOR: TIMOTHY L. BOESE  
 CALCULATED/DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 PHLORA BARBASH  
 REVISED BY: \_\_\_\_\_ DATE REVISED: \_\_\_\_\_

**EROSION CONTROL PLAN**  
 SCALE: 1" = 50' **EC-1**

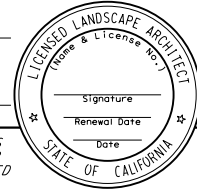
APPROVED FOR EROSION CONTROL WORK ONLY

DATE PLOTTED => 08-APR-2020  
 TIME PLOTTED => 11:01  
 LAST REVISION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

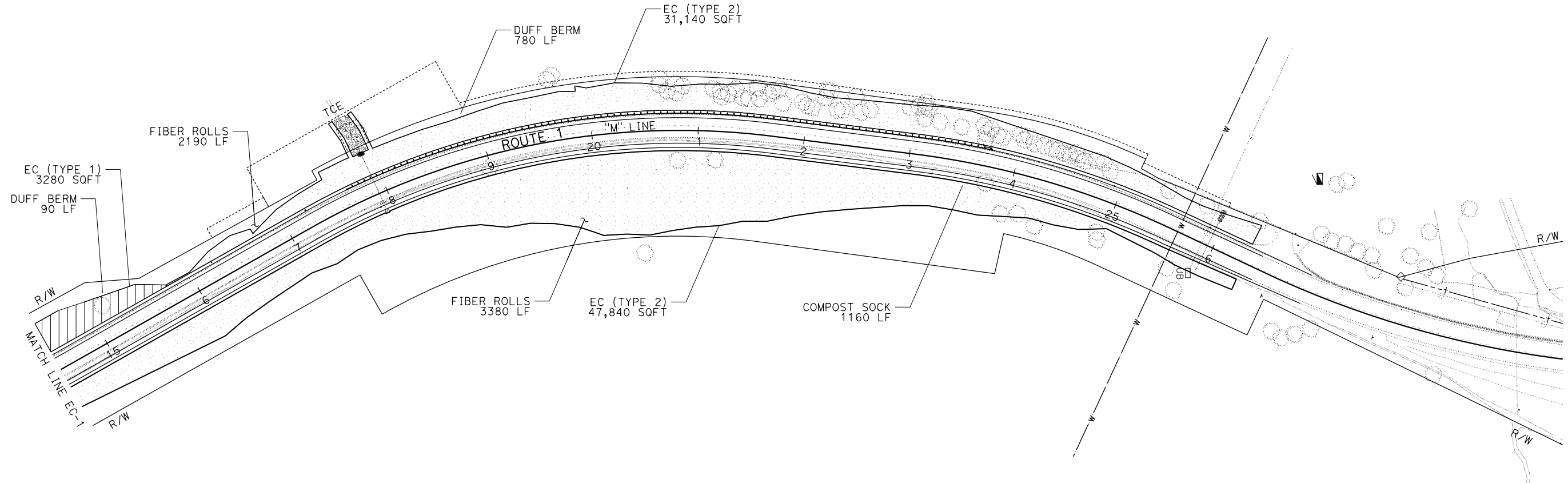
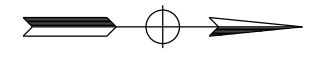
  

<b>M300</b>	
LICENSED LANDSCAPE ARCHITECT	
<b>DRAFT</b>	
PLANS APPROVAL DATE _____	



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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Gilbane** LANDSCAPE ARCHITECTURE  
 FUNCTIONAL SUPERVISOR  
 TIMOTHY L. BOESE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 PHLORA BARBASH  
 REVISOR BY  
 DATE REVISED

## EROSION CONTROL PLAN

SCALE: 1" = 50' **EC-2**

APPROVED FOR EROSION CONTROL WORK ONLY

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans** LANDSCAPE ARCHITECTURE  
 FUNCTIONAL SUPERVISOR  
 TIMOTHY L. BOESE  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 PHLORA BARBASH  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	41.8/42.3		

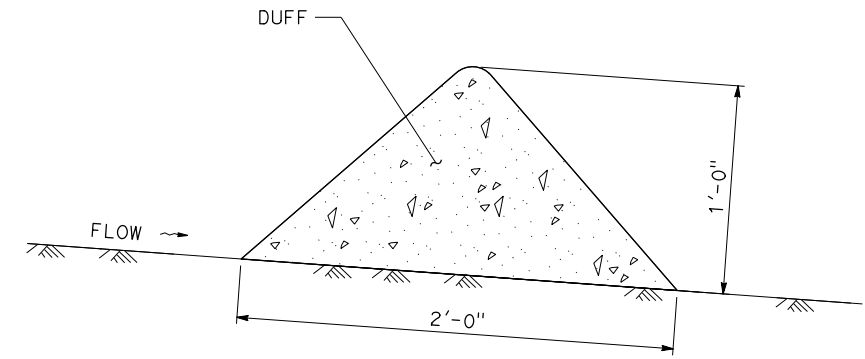
**M300**  
LICENSED LANDSCAPE ARCHITECT

**DRAFT**

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

LICENSED LANDSCAPE ARCHITECT  
 Name & License No. \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Renewal Date \_\_\_\_\_  
 Date \_\_\_\_\_  
 STATE OF CALIFORNIA

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**SECTION (Typ)**  
**DUFF BERM**  
 NO SCALE

**EROSION CONTROL QUANTITIES**

EC SHEET	DESCRIPTION	FIBER REINFORCED MATRIX	HYDRAULIC BIOTIC GROWTH MEDIUM	FIBER ROLLS	COMPOST SOCK	DUFF BERM	DUFF (SQFT)	RECP (NETTING)
		SQFT	SQFT	LF	LF	LF	SQFT	SQFT
1	EC (TYPE 1)	18,670	18,670				18,670	
	EC (TYPE 2)	20,950	20,950					
	RECP (NETTING)							390
	FIBER ROLL			2660				
	COMPOST SOCK				1410			
	DUFF BERM					655		
2	EC (TYPE 1)	3280	3280				3280	
	EC (TYPE 2)	78,980	78,980					
	FIBER ROLL			5570				
	COMPOST SOCK				1160			
	DUFF BERM					780		
<b>TOTAL</b>		121,880	121,880	8230	2570	1435	21,950	390

MOVE-IN/MOVE-OUT (EROSION CONTROL)
EA
2

**EROSION CONTROL QUANTITIES**  
**ECQ-1**