

DIST.	COUNTY	ROUTE	TOTAL MILES	SHEET NUMBER
			TOTAL PROJECT	OF SHEETS

	
REGISTERED CIVIL ENGINEER MAY 31, 2018 PLANS APPROVAL DATE THE STATE OF CALIFORNIA ON ITS OFFICERS AND ENGINEERS HAS REVIEWED THESE PLANS AND ALLOWS THEM TO BE USED FOR THE PURPOSES STATED ON THIS PLAN SHEET.	

TABLE 3

ADVANCE WARNING SIGN SPACING				
ROAD TYPE	DISTANCE BETWEEN SIGNS *			DISTANCE BETWEEN SIGNS *
	A	B	C	
URBAN - 25 mph OR LESS	ft	ft	ft	ft
URBAN - MORE THAN 25 mph TO 40 mph	100	100	100	100
URBAN - MORE THAN 40 mph	250	250	250	250
RURAL	350	350	350	350
EXPRESSWAY / FREEWAY	500	500	500	500
	1000	1500	2640	

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **		DOWNGRADE Min D ***	
	ft	ft	-3%	-6%
20	115	116	120	126
25	155	156	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	369	376	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	823	891
75	820	866	927	1003

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING									
SPEED (S)	MINIMUM TAPER LENGTH *				MAXIMUM CHANNELIZING DEVICE SPACING				
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	TAPER	TANGENT	Y	Z **
20	160	80	40	27	20	20	40	10	10
25	250	125	63	42	25	25	50	12	12
30	360	180	90	60	30	30	60	15	15
35	490	245	123	82	35	35	70	17	17
40	640	320	160	107	40	40	80	20	20
45	1080	540	270	180	45	45	90	22	22
50	1200	600	300	200	50	50	100	25	25
55	1320	660	330	220	50	50	100	25	25
60	1440	720	360	240	50	50	100	25	25
65	1560	780	390	260	50	50	100	25	25
70	1680	840	420	280	50	50	100	25	25
75	1800	900	450	300	50	50	100	25	25

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet

W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

T9

NOTES:

- See Standard Plan T9 for tables.
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations. See optional table, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Provide at least one person to continuously maintain traffic control devices for lane closures.

FILE#	COUNTY	ROUTE	POST MILES	SHEET TOTAL

REGISTERED CIVIL ENGINEER
APR 11 15 2021
PLANS APPROVAL DATE
APR 11 15 2021
ALL RIGHTS RESERVED
NO PARTS SHALL BE REPRODUCED FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION

TO ACCOMPANY PLANS DATED

SEE NOTE 2
W30-4
C94(CA)
SEE NOTE 2
W20-1
C45(CA)
SEE NOTE 2
W20-1
C45(CA)

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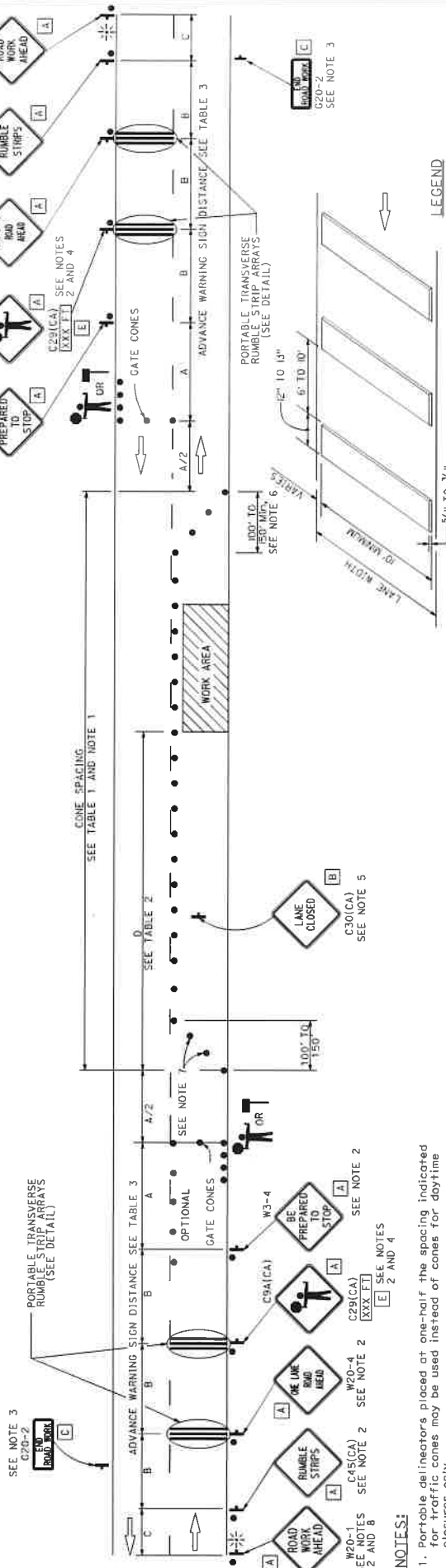
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- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
- A C20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure, unless the end of work area is obvious or ends within the larger project's limits.
- An optional C29(CA) sign may be placed below the C94(CA) sign.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area. They are optional if the work area is visible from the flagger station.
- Length may be reduced by the Engineer to address site conditions.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- If C45(CA) is not used, measure distance C from W20-4.

TRAFFIC CONTROL SYSTEM WITH REVERSIBLE CONTROL ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 16, 2021 SUPERSEDES RSP T13 DATED OCTOBER 18, 2019 AND
STANDARD PLAN T13 DATED MAY 31, 2018 - PAGE 291 OF THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP T13

DIST.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	

Alfred Kray
REGISTERED CIVIL ENGINEER
AUG 11, 16, 2021
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICIALS
IN ANY STATE SHALL NOT BE RESPONSIBLE FOR
THE CONTENTS OF THIS PLAN SHEET.

SIGN PANEL SIZE (Min):

A 48" x 48"

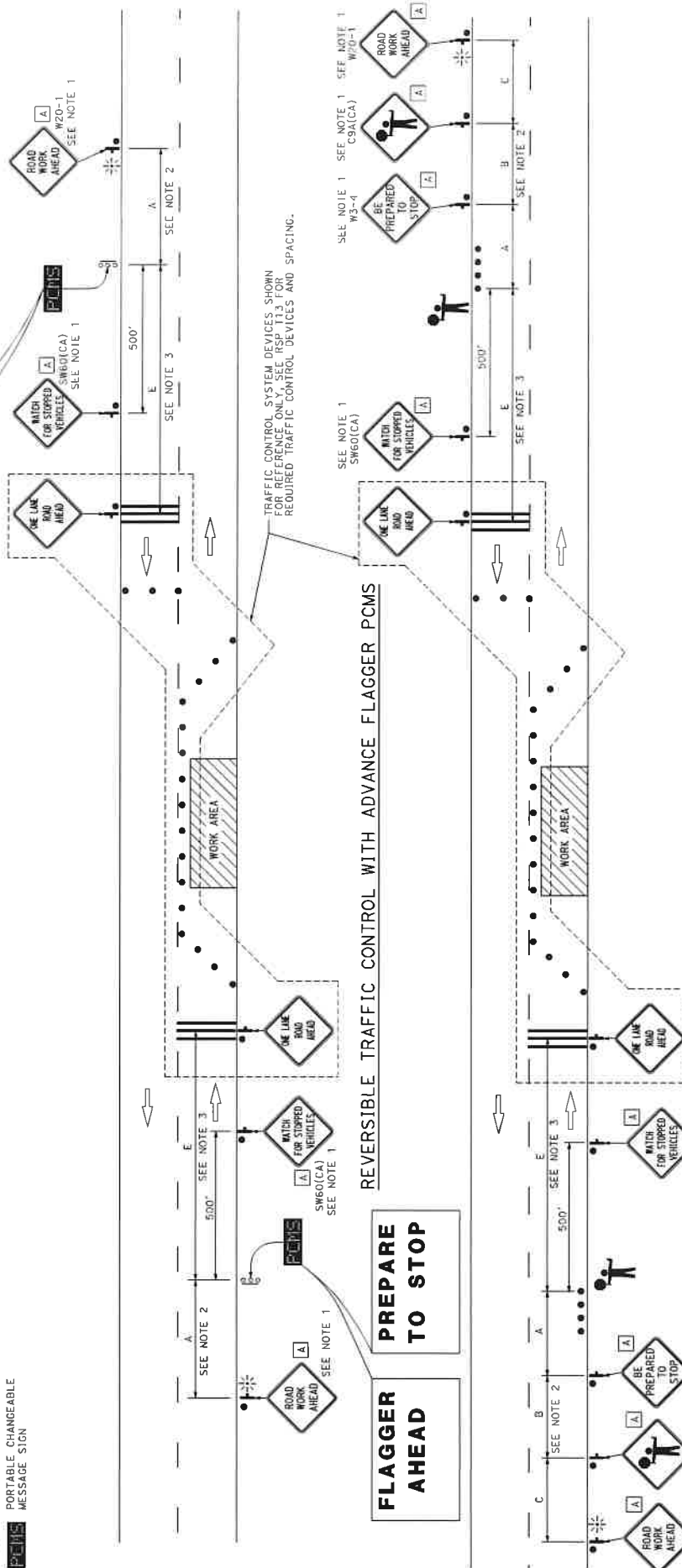
LEGEND:

- TRAFFIC CONE
- ⚡ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- TRAILER
- FLAGGER
- PORTABLE CHANGEABLE MESSAGE SIGN

**FLAGGER
AHEAD**

**PREPARE
TO STOP**

TO ACCOMPANY PLANS DATED



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
TWO LANE CONVENTIONAL
HIGHWAYS**
NO SCALE

REVERSIBLE TRAFFIC CONTROL WITH ADVANCE FLAGGERS

NOTES:

1. Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
2. See Standard Plan T9, Table 3 for advanced warning sign spacing.
3. See Standard Specification 12-4.02C.

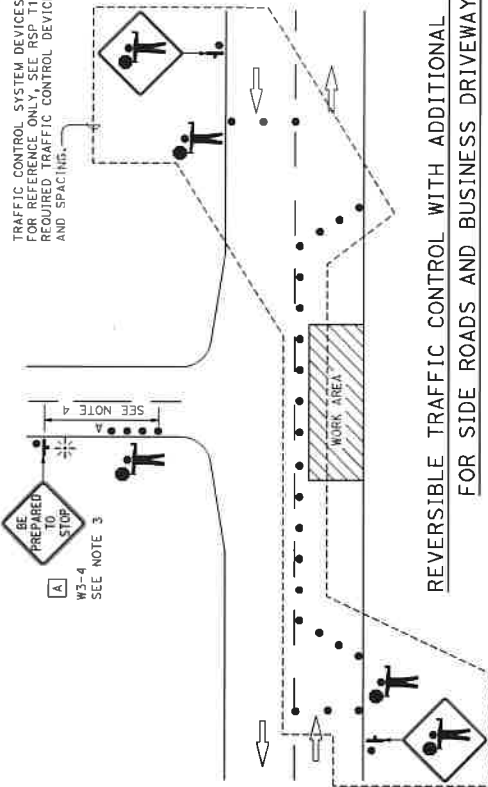
RSP T13A DATED APRIL 16, 2021 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP T13A

POST MILES	TOTAL PROJECT	SHEET TOTAL
ROUTE		NO. SHEETS
REGISTERED CIVIL ENGINEER <i>Alvin Young</i> APR 11 16, 2021 PLANS APPROVAL DATE THE STATE OF CALIFORNIA ON ITS OFFICIAL SEAL THE PUBLIC WORKS DIVISION OF THE DEPARTMENT OF TRANSPORTATION COPIES OF THIS PLAN SHEET		

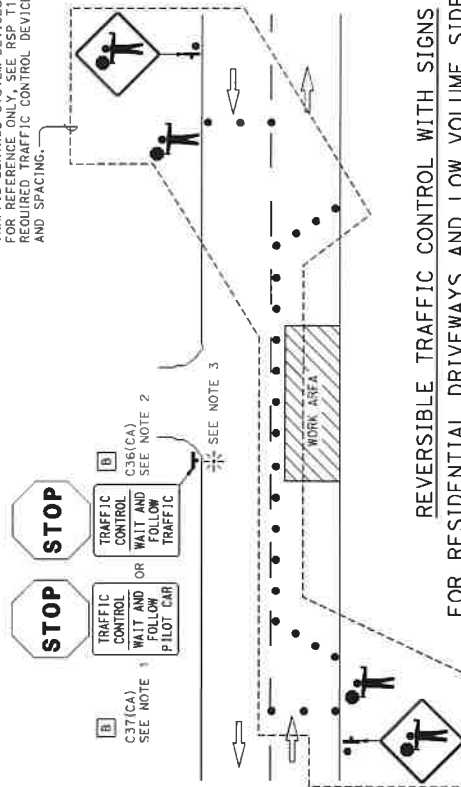
TO ACCOMPANY PLANS DATED

TRAFFIC CONTROL SYSTEM DEVICES SHOWN
FOR REFERENCE ONLY. SEE RSP T13 FOR
REQUIRED TRAFFIC CONTROL DEVICES
AND SPACING.



REVERSIBLE TRAFFIC CONTROL WITH ADDITIONAL FLAGGERS FOR SIDE ROADS AND BUSINESS DRIVEWAYS

TRAFFIC CONTROL SYSTEM DEVICES SHOWN
FOR REFERENCE ONLY. SEE RSP T13 FOR
REQUIRED TRAFFIC CONTROL DEVICES
AND SPACING.



REVERSIBLE TRAFFIC CONTROL WITH SIGNS FOR RESIDENTIAL DRIVEWAYS AND LOW VOLUME SIDE ROADS

NOTES:

1. Place C37(CA) sign when pilot car is used.
2. Place C36(CA) sign when pilot car is not used.
3. Signs must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
4. See Standard Plan T9, Table 3 for advance warning sign spacing.

LEGEND:

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 42"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13B DATED APRIL 16, 2021 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2018.

REVISED STANDARD PLAN RSP T13B

NOTES:

1. When clear roadside recovery areas are provided, the minimum width of the travelway for a single-lane road shall be 30 ft. When possible, they shall be placed in protected locations.
2. Signs in medians shall be placed at midpoint of median width, and signs for edge of traveled way when appropriate shall be placed back to back.
3. Does not apply at locations where minimum median width is less than 30 ft. or at locations where character of travel is steep slopes or features which signs are installed on structures or signal or lighting standards.

EPS = Edge of Paved Shoulder



RURAL LOCATIONS

CONVENTIONAL HIGHWAYS AND INTERCHANGE AREAS



REGULATORY AND WARNING SIGNS AND ROUTE SHIELDS

GUIDE SIGNS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ROADSIDE SIGNS
TYPICAL INSTALLATION
DETAILS No. 1**

NO SCALE

RS1

NO SCALE

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

Complete ALL fields, write "N/A" if not applicable. Type or print clearly.

This application is not complete until all requirements have been approved.

Permission is requested to encroach on the State Highway right-of-way as follows:

1. COUNTY Mono		2. ROUTE Route 203	3. POST MILE L0.00 to L0.05
4. ADDRESS OR STREET NAME Start of Route 203 (west end)		5. CITY Town of Mammoth Lakes	
6. CROSS STREET (Distance and direction from project site) Intersection of Lookout Point Road, near the US Forest Service Minaret Vista Station			DATE OF SIMPLEX STAMP 07/27/2022
7. WORK TO BE PERFORMED BY ☐ APPLICANT ☒ CONTRACTOR		8. IS THIS APPLICATION FOR THE CONTRACTOR'S (DOUBLE) PERMIT? ☒ NO ☐ YES. If "YES", provide the Parent Permit Number	
9. ESTIMATE START DATE 04/01/2023		10. ESTIMATED COMPLETION DATE 12/31/2024	
11. ESTIMATED NUMBER OF WORKING DAYS WITHIN STATE HIGHWAY RIGHT-OF-WAY 15			
12. ESTIMATED CONSTRUCTION COSTS WITHIN STATE HIGHWAY RIGHT-OF-WAY \$50,000.00			
13. HAS THE PROJECT BEEN REVIEWED BY ANOTHER CALTRANS BRANCH? ☒ NO ☐ YES. If "YES", which branch?			
14. FUNDING SOURCE(S) ☒ FEDERAL ☐ STATE ☒ LOCAL ☐ PRIVATE ☐ SB 1 (ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017)			
15. CALTRANS PROJECT CODE (ID) N/A		16. APPLICANT'S REFERENCE / UTILITY WORK ORDER NUMBER N/A	

17. DESCRIBE WORK TO BE DONE WITHIN STATE HIGHWAY RIGHT-OF-WAY (in 20 lines or less)

Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, traffic control plans, etc.

This proposed work is part of the CA FLAP 03S11(1) Reds Meadow Road Project led by the Federal Highway Administration, Office of Federal Lands, Central Federal Lands Highway Division (CFLHD) in partnership with the United States Forest Service and the Town of Mammoth Lakes.

The work within Caltrans right-of-way involves conforming pavement rehabilitation (approximately 30-feet) on Route 203 at its west end, near the Mono County / Madera County Line. The existing pavement will be pulverized for full depth reclamation, re-compacted in place, and receive a new hot mix asphalt pavement surface along with striping.

Additionally, the project will place portable changeable message signs at three locations along Route 203:

- (1) Along the west bound side of Route 203 immediately west of the intersection of Mammoth Scenic Loop.
- (2) Along the west bound side of Route 203 immediately prior to the Mammoth Mountain Main Lodge parking lot.
- (3) Along the west bound side of Route 203 approximately 1,000-feet west of the Highway 395 southbound offramp.

Since FHWA is working from home, please email the approved permit to dustin.robbs@dot.gov and edwin.henderson@jacobs.com

18 (a). PORTION OF STATE HIGHWAY RIGHT-OF-WAY WHERE WORK IS BEING PROPOSED (check all that apply)

- ☒ Traffic lane ☐ Shoulder ☐ Sidewalk ☐ Median ☐ At or near an intersection ☐ Mobile work
- ☐ Outside of the shoulder, _____ feet from edge of pavement ☐ Other _____

18 (b). PROPOSED TRAFFIC CONTROL PLANS AND METHOD

- ☐ No traffic control needed ☒ State Standard Plans (T-Sheets) # T9 & T13
- ☐ Project specific Traffic Control Plans included ☐ To be submitted by contractor

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

TRACKING NO.

0922-NMC-1010

19. EXCAVATION	MAX. DEPTH (in) 24"	MIN. DEPTH (in) 6"	AVG. WIDTH (in) 480"	LENGTH (ft) 30'	SURFACE TYPE (e.g. Asphalt, concrete, soil, etc.) Asphalt
20. PIPES	PRODUCT BEING TRANSPORTED N/A	CARRIER PIPE DIAMETER N/A (in.) MATERIAL N/A	CASING PIPE DIAMETER N/A (in.) MATERIAL N/A		
PROPOSED INSTALLATION METHOD (e.g. HDD, Bore & Jack, Open Cut, etc.) N/A					VOLTAGE / PSIG N/A

DOES THE PROPOSED PROJECT INVOLVE THE REPLACEMENT AND/OR ABANDONMENT OF AN EXISTING FACILITY?

☒ NO ☐ YES. If "YES", provide a description

21. IS A CITY, COUNTY OR OTHER PUBLIC AGENCY INVOLVED IN THE APPROVAL OF THIS PROJECT?

☒ YES (if "YES", check the type of project AND attach the environmental documentation and conditions of approval)☐ COMMERCIAL DEVELOPMENT ☐ BUILDING ☐ GRADING ☐ OTHER FHWA CFLHD project for road construction☐ CATEGORICALLY EXEMPT ☐ NEGATIVE DECLARATION ☐ ENVIRONMENTAL IMPACT REPORT ☒ OTHER NEPA EA IS☐ NO (if "NO", check the category below which best describes the project AND answer questions A-K)☐ DRIVEWAY OR ROAD APPROACH, RECONSTRUCTION,
MAINTENANCE OR RESURFACING☐ FENCE ☐ EROSION CONTROL☐ PUBLIC UTILITY MODIFICATION, EXTENSIONS, HOOKUPS☐ MAILBOX ☐ LANDSCAPING☐ FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS ☐ OTHER**The following questions must be answered when a City, County or other public agency IS NOT involved in the approval of this project.**

Your answers to these questions will assist Caltrans staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within State Highway right-of-way and to determine which type of environmental studies may be required to approve your application for an encroachment permit. It is the applicant's responsibility for the production of all required environmental documentation and supporting studies and in some cases this may be costly and time consuming. If possible, attach photographs of the location of the proposed project. Answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.).

A. Will any existing vegetation and/or landscaping within State Highway right-of-way be disturbed?

B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the proposed project?

C. Is the proposed project located within five miles of the coast line?

D. Will the proposed project generate construction noise levels greater than 86 decibels (dBA) (e.g. Jack-hammering, pile driving)?

E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?

F. Are there any recreational trails or paths within the limits of the proposed project?

G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?

H. Will the proposed project impact access to any businesses or residences?

I. Will the proposed project impact any existing public utilities or public services?

J. Will the proposed project impact any existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?

K. Will new lighting be constructed within or adjacent to State Highway right-of-way?

ADA Notice

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STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV 12/2018)

TRACKING NO.

0922-NMC-1010

22. Will the proposed project cause a substantial change in the significance of a historical resource (45 years or older), or cultural resource? ☐ YES ☒ NO (if "YES", provide a description)
23. Will the proposed project be on an existing State Highway or street where the activity involves removal of a scenic resource? (e.g. A significant tree or stand of trees, a rock outcropping or a historic building) ☐ YES ☒ NO (if "YES", provide a description)
24. Is work being done on the applicant's property in addition to State Highway right-of-way? ☒ YES ☐ NO
(If "YES", attach 6 complete sets of site and grading plans)
25. Will the proposed project require the disturbance of soil? ☒ YES ☐ NO
If "YES", estimate the area of disturbed soil within State Highway right-of-way in acres: 0.23 acres of pavement rehabilitation
and estimate the area of disturbed soil outside State Highway right-of-way in acres: 2.5 mi. road reconstruction & 5.8 mi. of pvmt rehab.
26. Will the proposed project require dewatering? ☐ YES ☒ NO
If "YES", estimate Total gallons AND gallons/month. _____ (Total gallons) AND _____ (gallons/month)
SOURCE*: ☐ STORMWATER ☐ NON-STORMWATER
(*See Caltrans SWMP for definition of non-storm water discharge: <http://www.dot.ca.gov/env/stormwater/>)
27. How will any storm water or ground water be disposed?
☐ Storm Drain System ☐ Combined Sewer / Stormwater System ☐ Stormwater Retention Basin ☒ N/A
☐ Other (explain) _____

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

TRACKING NO.
0922-NMC-1010

READ THE FOLLOWING CLAUSES PRIOR TO SIGNING THIS ENCROACHMENT PERMIT APPLICATION.

The applicant's submission of this application to the California Department of Transportation constitutes the applicant's agreement and representation that the work or other activity contemplated by the encroachment permit application shall comply with all applicable standards, specifications, policies, requirements, conditions, and regulations of the California Department of Transportation, and the applicant understands the application may be denied if there is non-compliance with any of the above. An exception process exists and may result in approval of a non-compliant encroachment, in the discretion of the California Department of Transportation, but the exception process may require additional time to complete. The applicant understands and agrees all work or other activity contemplated by the encroachment permit application is subject to inspection and oversight by the California Department of Transportation. The applicant understands and agrees encroachment permit fees must still be paid if an application is withdrawn or denied. The applicant understands a denial may be appealed, in accordance with California Streets and Highways Code, Section 671.5, and the related regulations found in California Code of Regulations, Title 21, Division 2, Chapter 8, Article 2.

The applicant understands and agrees that immediately upon issuance of the encroachment permit the applicant is bound by, subject to, and must comply with the "Encroachment Permit General Provisions" (TR-0045), "Stormwater Special Provisions" (TR-0400) and any other applicable Special Provisions and Conditions of the encroachment permit. The "Encroachment Permit General Provisions" (TR-0045), and the Stormwater Special Provisions (TR-0400) are available at: [http://www.dot.ca.gov/trafficops/ep/docs/Appendix_K_\(WEB\).pdf](http://www.dot.ca.gov/trafficops/ep/docs/Appendix_K_(WEB).pdf). If a paper copy is needed of the "Encroachment Permit General Provisions" (TR-0045) and/or "Stormwater Special Provisions" (TR-0400), please contact the District Office of Encroachment Permits. Their contact information is available at: [http://www.dot.ca.gov/trafficops/ep/docs/Appendix_G_\(WEB\).pdf](http://www.dot.ca.gov/trafficops/ep/docs/Appendix_G_(WEB).pdf). The "Encroachment Permit General Provisions" (TR-0045) and any other applicable Special Provisions and Conditions will be provided as part of the encroachment permit. Information about Stormwater requirements is available at the Internet address: <http://www.dot.ca.gov/hq/construc/stormwater/>.

The applicant understands an encroachment permit may be denied, revoked, and/or a bond may be required, for non-payment of prior or present encroachment permit fees. An encroachment permit is not a property right and does not transfer with the property to a new owner. Each of the persons purporting to execute this application on behalf of the applicant and/or on behalf of the applicant's authorized agent or engineer represents and warrants such person has full and complete legal authority to do so and to thereby bind applicant to the terms and conditions herein and to the terms and/or conditions of the encroachment permit. Applicant understands and agrees this application may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Executed copies of this application and/or its counterparts may be reproduced and/or exchanged by copy machine, mailing, facsimile, or electronic means (such as e-mail), and such copies shall be deemed to be effective as originals.

28. NAME OF APPLICANT (Project or Property Owner or Organization)

Dustin Robbins, P.E., Central Federal Lands Highway Division

ADDRESS OF APPLICANT (Include City, State and Zip Code)

12300 West Dakota Avenue, Lakewood, CO 80228

E-MAIL ADDRESS

dustin.robbs@dot.gov

PHONE NUMBER

720-963-3586

FAX NUMBER

29. NAME OF AUTHORIZED AGENT / ENGINEER

(A "Letter of Authorization" is required if different from #28)

IS A LETTER OF AUTHORIZATION ATTACHED?

☐ YES ☐ NO

ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City, State and Zip Code)

E-MAIL ADDRESS

PHONE NUMBER

FAX NUMBER

30. NAME OF BILLING CONTACT (Same as #28 ☒ Same as #29 ☐)

BILLING ADDRESS WHERE INVOICE(S) IS / ARE TO BE MAILED (Include City, State and Zip Code)

E-MAIL ADDRESS

PHONE NUMBER

FAX NUMBER

* I hereby certify under penalty of perjury under the laws of the State of California that the information in this application and any document submitted with or in support of this application are true and correct to the best of my knowledge and belief, and that copies of any documents submitted with or in support of this application are true and correct copies of unaltered original documents. I further understand that if I have provided information that is false, intentionally incomplete, or misleading I may be charged with a crime and subjected to fine or imprisonment, or both fine and imprisonment. (Penal Code Section 72)

31. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT*

DUSTIN F ROBBINS

Digitally signed by DUSTIN F ROBBINS
Date: 2022.02.14 10:09:22 -07'00'

32. PRINT OR TYPE NAME

Dustin Robbins

33. TITLE

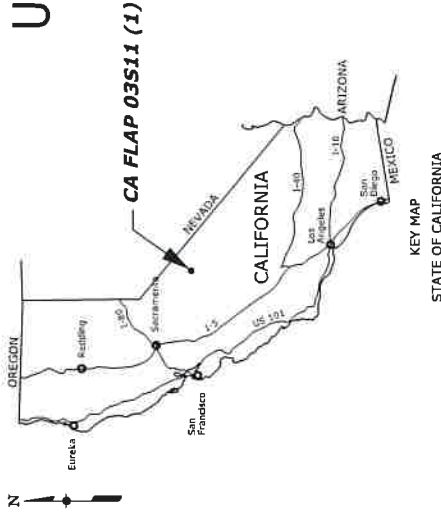
Project Manager

34. DATE

02/14/2022

SHEET NUMBER	PROJECT	STATE
A1	CA FLAP 03S11(1)	CA

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION



PLANS FOR PROPOSED
CA FLAP 03S11(1)
REDS MEADOW ROAD
INYO NATIONAL FOREST
MADERA COUNTY
SCHEDULE A LENGTH 2.90 miles
OPTION X LENGTH 5.85 miles

TYPE OF CONSTRUCTION:
Road reconstruction, road rehabilitation, MSE wall, soil nail wall, reinforced soil slope, grading, drainage, signing, striping

DESIGN DESIGNATIONS:
ADT (2022) ----- 445
ADT (2042) ----- 445
DHW ----- 25
D ----- NA
T ----- 1%
V ----- 20 MPH (5+95 to 139+09)
V ----- 30 MPH (496+69 to 805+00)
e(max) ----- 6%

U.S. CUSTOMARY DIMENSIONS:
Slopes are expressed as RISE:RUN

SPECIFICATIONS:
"STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-14"

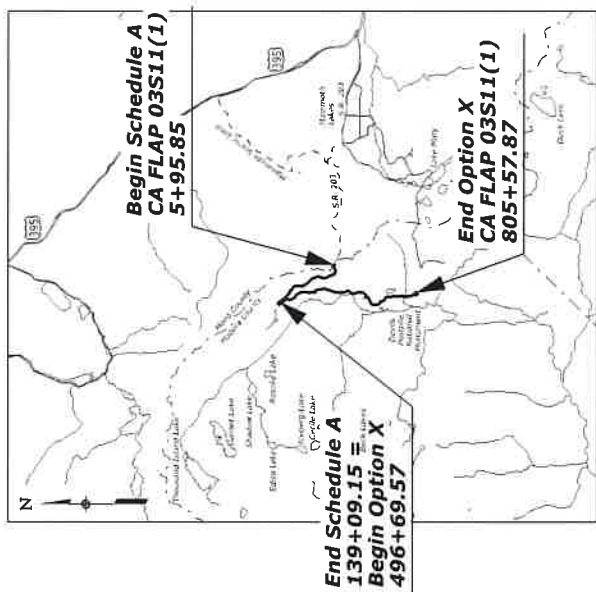


REGISTERED PROFESSIONAL ENGINEER
TRAN JAMES HOWARD
CIVIL
STATE OF CALIFORNIA
03/26/2021



PROJECT MANAGER | LEAD DESIGNER
Basil Robbins | JACOB

INDEX TO SHEETS	
SHEET	DESCRIPTION
A1	TITLE SHEET
A2-A3	CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS
A4-A5	SURVEY CONTROL
A6	SURVEY CONTROL SITE MAP
A7-A8	SITE MAP
A9-A13	TYPICAL SECTIONS
A14	TYPICAL SECTIONS - APPROACH ROADS
B1-B6	SUMMARY OF QUANTITIES
B7-B8	REMOVAL SUMMARY
B9	SURVEY AND STAKING SUMMARY
B10-B11	GRADING SUMMARY
B12	EARTHWORK REPRESENTATIONS
B13	MASS HAUL DIAGRAM
B14	SURFACING SUMMARY
B15-B18	DRAINAGE SUMMARY
B19	EROSION CONTROL SUMMARY
B20	WALL SUMMARY
B21-B23	PERMANENT PAVEMENT MARKINGS SUMMARY
B24-B27	PERMANENT SIGN SUMMARY
B28	MISCELLANEOUS SUMMARY
C1-C12	REDS MEADOW ROAD PLAN AND PROFILES
C13-C21	REDS MEADOW ROAD PLANS
C22	REDS MEADOW ROAD PLAN AND PROFILE
C23-C26	REDS MEADOW ROAD PLANS
INDEX CONTINUES ON A2	



PLANS PREPARED BY
Jacobs
FOR
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
DENVER, COLORADO

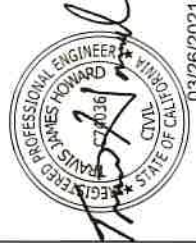
APPROVED:

DATE: _____
CHIEF OF ENGINEERING
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

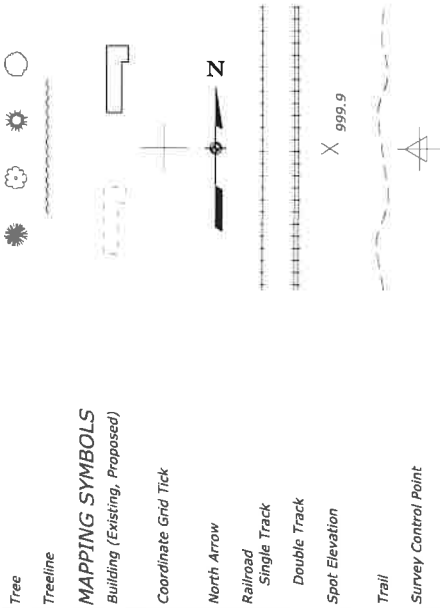
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03511(U)	A2

ABBREVIATIONS		DRAINAGE SYMBOLS
centerline curve delta diameter about average daily traffic aggregate ahead alternate approach approach back beginning, begin bench mark balance point bridge bearing concrete box culvert concrete to center clear corrugated metal pipe column column concrete construction joint continuous corr. creek point of curve to spiral contingent sum cuv. decr. DI DIW dia. or D diag. diag. dist. DLC donation land claim drawing(s) E E EI, 94.066 elev. emb. Engineer(s) EQ or eq. ER et al et ux EW exc. exp. jt. ext. fill face fin. fin. fin. footing gage (gauge) galv. girder headwall homestead entry survey hex. HES high water high water highway inside diameter inclusive, including incr. interior joint jt.	L L lat. long. LPSM Lt. or LT LW M mag. maint. max. min. mon. mnt(s). N N NC neg. no. or # O O.C. P PCC perfor. pl. POC POS proj. psf pvt. Q R R/W rd. rdwy. reconst. reinf. reqd. Res. ret. wall RH Rt. or RT Rte. S SADT SC section shldr. spa. spec. st. sta. std. str. struct. sym. T T tan. TBM TCE transv. T typ. V vert. vph VPI W W	length of curve lamination latitude longitudinal lump sum left low water magnetic maintenance material maximum minimum monument mountain(s) north normal crown negative number on centers other face outside diameter point of compound curve point of intersection plate point on curve point on spiral point on tangent project point per square inch point of tangent pavement quantities radius range right-of-way road roadway reconstruction reinforcement required reservoir Res. retaining wall reference hub right route seasonal average daily traffic point of spiral to curve section shoulder spacing, Spaces or Spaced specification street point of spiral to tangent station standard strut structural symmetrical tangent length township tangent temporary bench mark temporary construction easement transverse point of tangent to spiral typical vertical vehicles per hour vertical point of intersection west
EROSION & SEDIMENT CONTROL SYMBOLS		
Bonded Fiber Matrix Mulching Check Dam Diversion Berm Rolled Erosion Control Product Riprap Fiber Roll (Ditch and/or Cut Slope) Silt Fence Temporary Inlet Protection Fiber Roll (Slope Protection)		
FENCE & CATTLEGUARD SYMBOLS		
Fence (Existing, Proposed) Fence w/ Gate (Existing, Proposed) Cattleguard (Existing, Proposed)		
GEOLOGIC SYMBOLS		
Boring Location (Existing, Proposed) Material Source		

INDEX TO SHEETS	DESCRIPTION
D1	MINARET VISTA ROAD PLAN
D2	MINARET VISTA SPUR PLAN
D3	MINARET VISTA PARKING PLAN
D4	REDS MEADOW CONFORM DETAILS
D5-D8	PULLOUT AREAS
D9-D12	STAGING AREAS
D13-D23	BUS STOP AND DRIVEWAY PLANS
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F1-F2	204 EXCAVATION AND EMBANKMENT DETAILS
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G20	259 SOIL NAIL WALL TYPICAL SECTION
G21-G22	259 SOIL NAIL WALL DETAILS
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R1	501 MINOR CONCRETE PAVEMENT
R2	502 MINOR CONCRETE PAVEMENT JOINTS
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T6-T9	604 INLET DETAILS
T10	605 UNDERDRAIN DETAIL
T11	609 CURB DETAILS
T12	609 STAIR DETAILS
T13-T16	617 GUARDRAIL DETAILS
T17-T19	619 27' METAL GATE DETAILS
T20	629 ROLLED EROSION CONTROL PRODUCT ON SLOPES
V1	633 SIGN STRUCTURES
V2-V28	633 SPECIAL SIGN DETAILS
V29	633 MARKER DETAIL
V30-V34	634 PAVEMENT MARKINGS DETAILS
V35	634 TRANSVERSE RUMBLE STRIPS
V36-V39	635 TEMPORARY TRAFFIC CONTROL DETAILS
X1-X69	REDS MEADOW ROAD CROSS SECTIONS
Z1-Z20	CULVERT SECTIONS



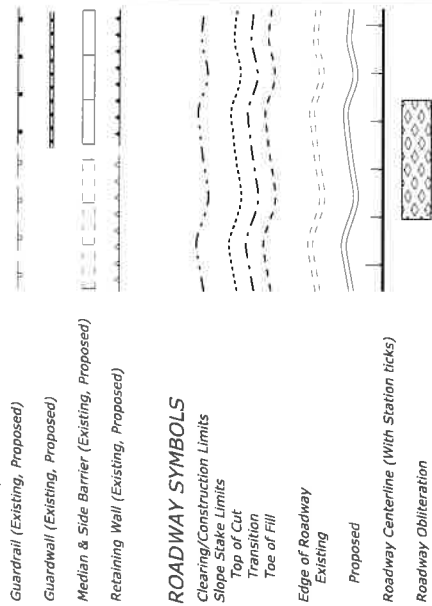
LANDSCAPING & VEGETATION SYMBOLS



RIGHT-OF-WAY SYMBOLS



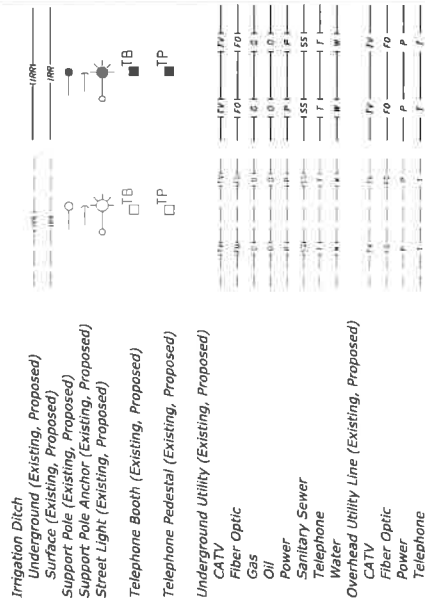
GUARDRAIL, BARRIER & WALL SYMBOLS



SIGN SYMBOLS

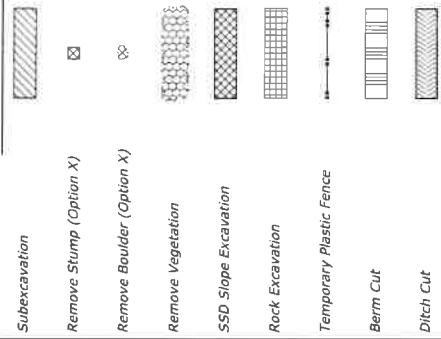


UTILITY SYMBOLS



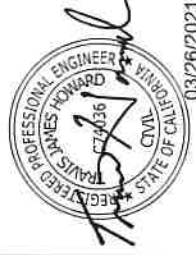
PROJECT SPECIFIC SYMBOLS

OPTION X SYMBOLS

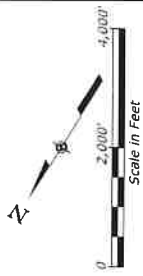


PROJECT SPECIFIC ABBREVIATIONS

L.O.L. Layout Line
OG Original Ground
RSS Reinforced Soil Slope
SSD Stopping Sight Distance
CO Contracting Officer
TP Transition Pan
CP Catch Pan
SP Spill Pan



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A7



End Schedule A
139+09.15 =
Begin Option X
496+69.57
CA FLAP 03S11(1)
Reds Meadow Rd
N 2073020.37
E 6973105.14

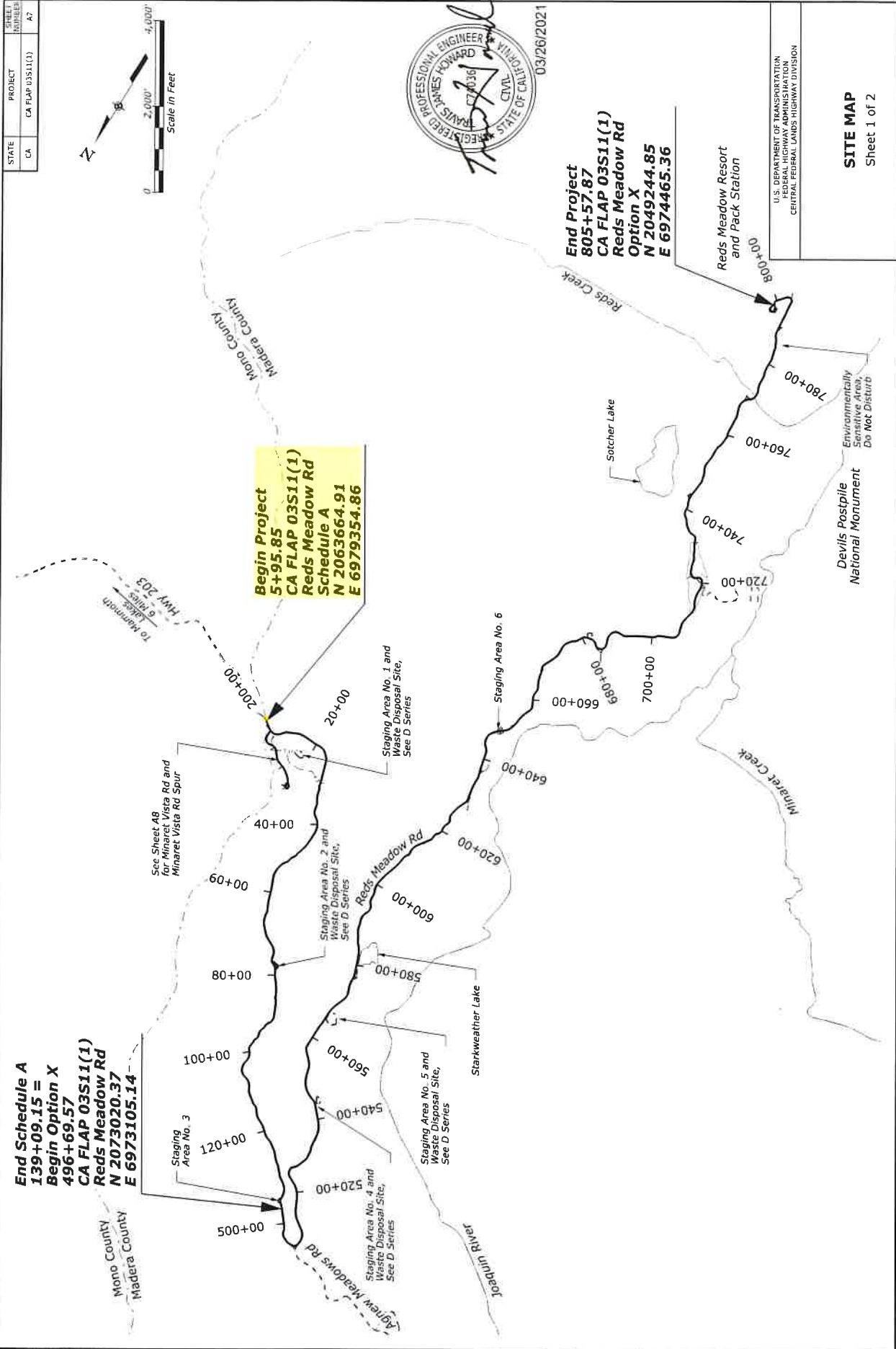
Begin Project
5+95.85
CA FLAP 03S11(1)
Reds Meadow Rd
Schedule A
N 2063664.91
E 6979354.86

End Project
805+57.87
CA FLAP 03S11(1)
Reds Meadow Rd
Option X
N 2049244.85
E 6974465.36

Reds Meadow Resort
 and Pack Station

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

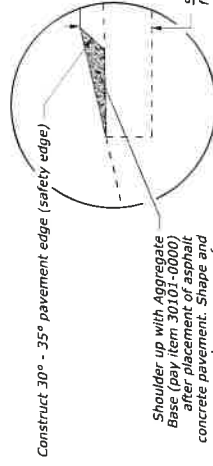
SITE MAP
 Sheet 1 of 2



STATE	PROJECT	SHEET NUMBER
CA	CA RAP 0351(1)	A11

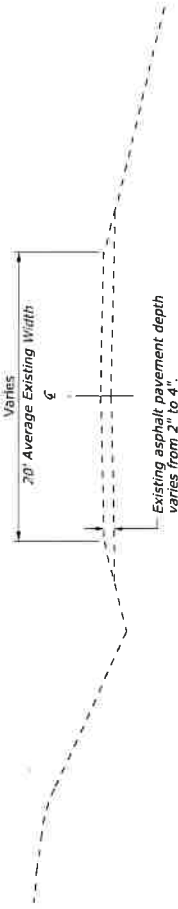
NOTES:

1. Full depth reclamation of the existing paved width or as directed by the CO. Pulverize the asphalt to 6 inch depth or to 1 inch below the bottom of the existing pavement, whichever is greater. Pulverizing included existing asphalt curbs.
2. Spreading, compacting, and finishing of pulverized material will be paid for as Full Depth Reclamation, Method 2, 6 inch depth by the mile for the widths shown.
3. Construct foreslope no steeper than 1:2 to fit an existing bench as directed by the CO. Provide 1:4 shoulder foreslopes as space permits.
4. Where subgrade soils are composed of pumice, they should be sub-excavated 2 feet, reinforced with geotextile fabric and recompact.
5. 20 Foot Lane Width for Minaret Vista Road, and Minaret Vista Spur Road.
6. Increase width to accommodate right turn lane and widening around guard shack island. See C Series for limits.

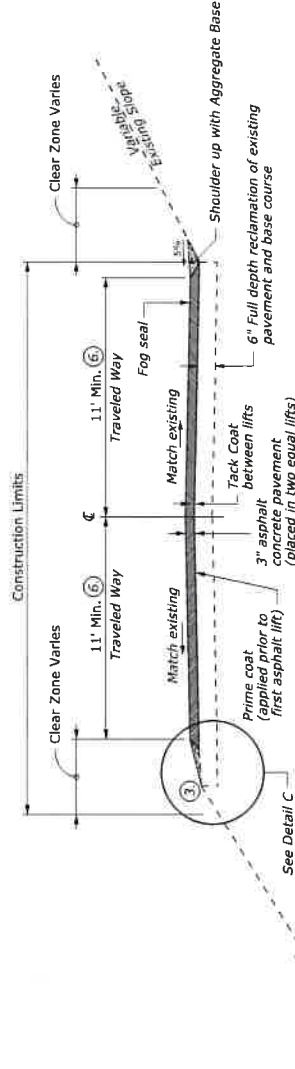


DETAIL C

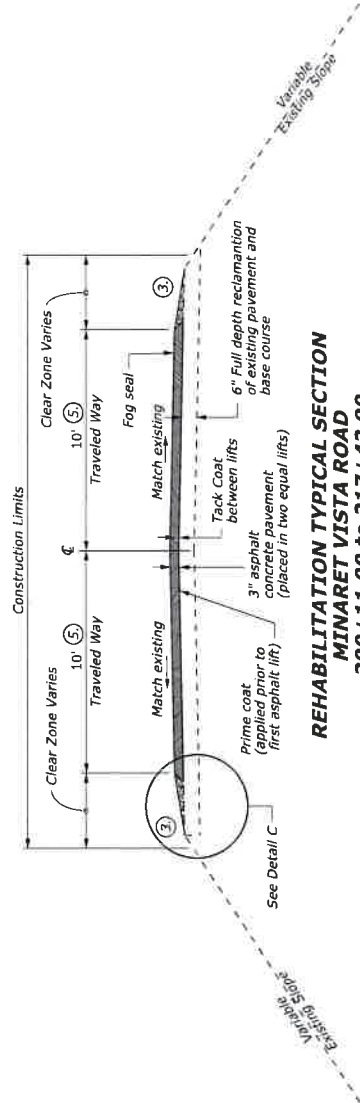
See Mainline Typical Section for structural section details



EXISTING TYPICAL SECTION **MINARET VISTA ROAD** **200+11.00 to 217+42.90** **MINARET VISTA ROAD SPUR** **300+11.00 to 302+68.79**



REHABILITATION TYPICAL SECTION **REDS MEADOW ROAD** **5+95.85 to 10+70.00**



REHABILITATION TYPICAL SECTION **MINARET VISTA ROAD** **200+11.00 to 217+42.90** **MINARET VISTA ROAD SPUR** **300+11.00 to 302+68.79**



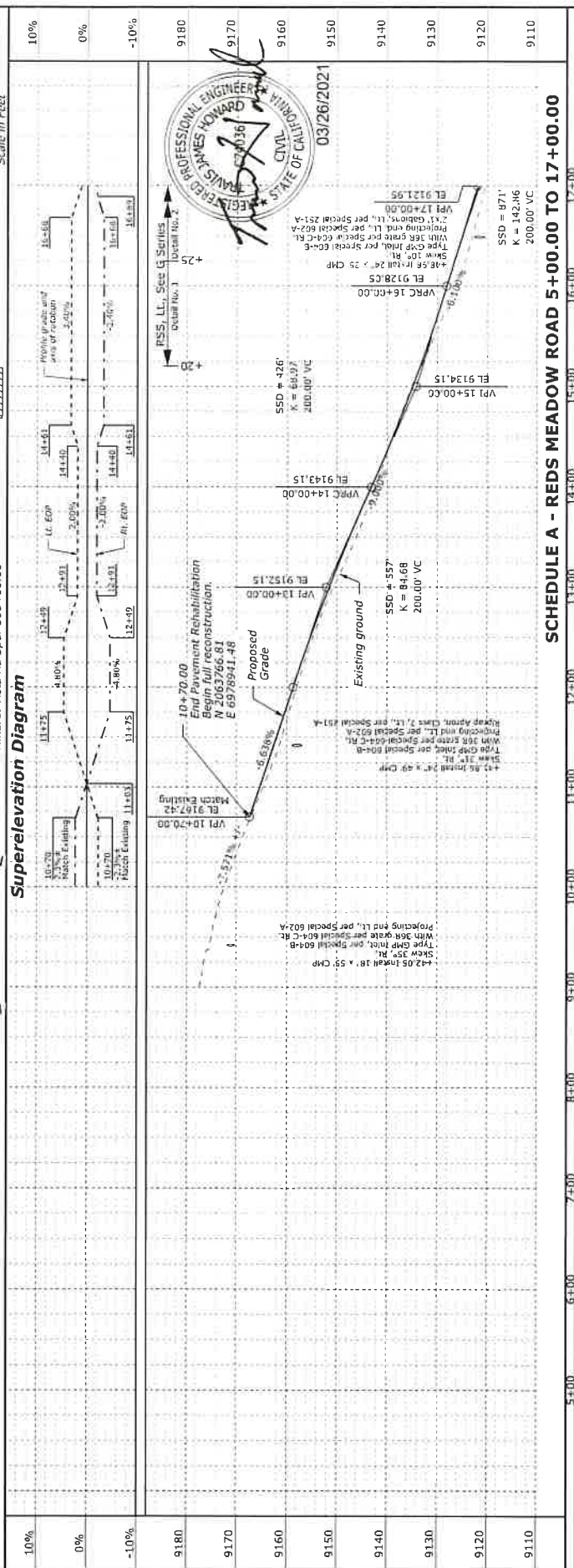
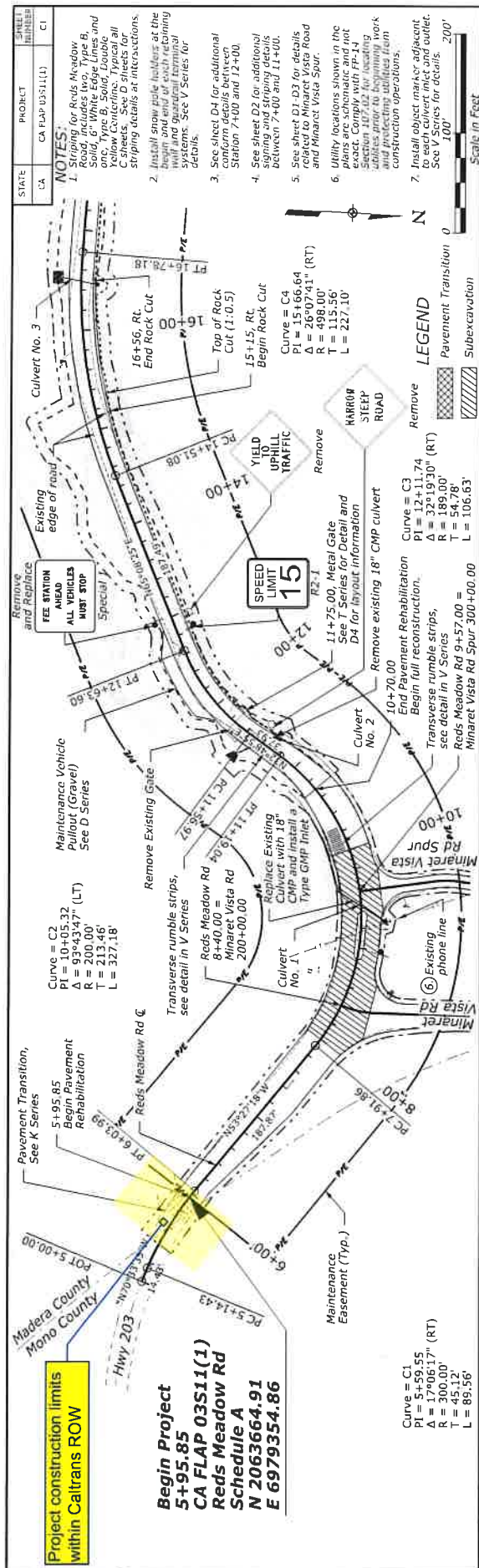
03/26/2021

NO SCALE

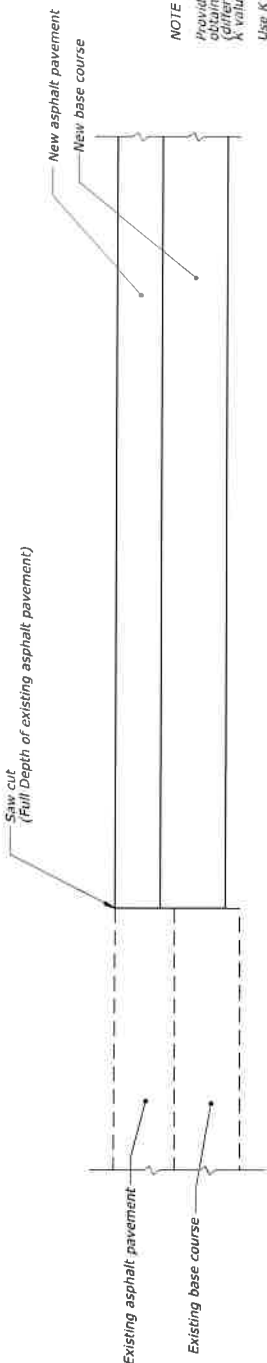
SCHEDULE A **TYPICAL SECTIONS** **REHABILITATION**

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

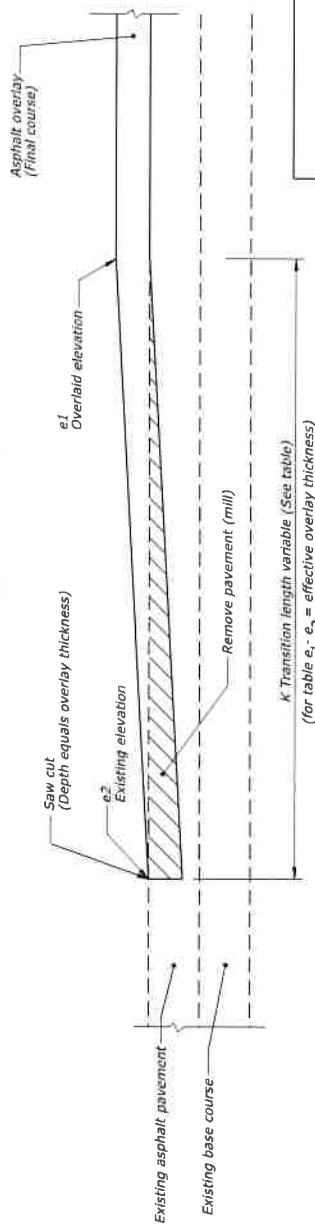
U.S. CUSTOMARY



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03511(1)	K1



NEW PAVEMENT

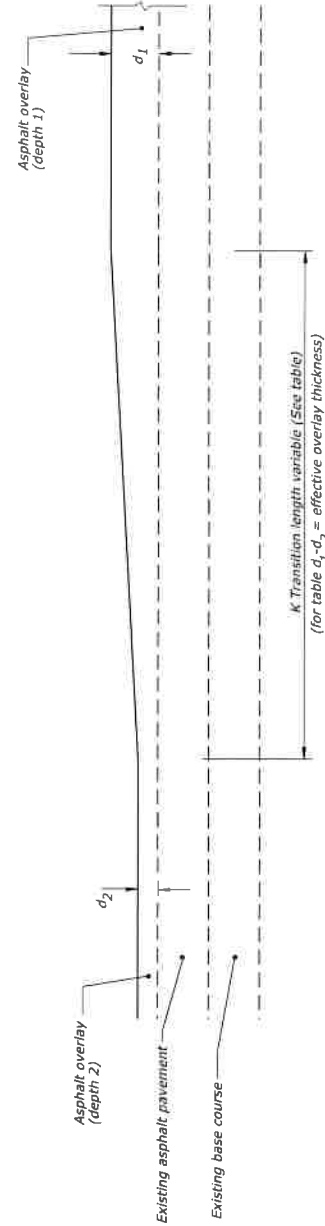


OVERLAY

K VALUE TABLE (ft./in)

POSTED SPEED (MPH) *	30	35	40	45	50	55	60	65	70	75
K	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5

* Use a K Value of 30 for speeds less than 30 MPH.



OVERLAY - DEPTH TRANSITIONS

NOTE :

Provide a transition length in feet that is not less than the value obtained by multiplying the effective overlay thickness in inches by the value from the table for the posted speed of the roadway.

Use $K(e_1 - e_2) = L$, or $K \cdot [d_1 - d_2] = L$ (whichever applies), to obtain the transition length.

Example :
If the posted speed is 55 MPH.
Then the minimum transition length = 2 inches x 42.5 ft./in. = 85 feet.



03/26/2021
FOR SELECTION ONLY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

PAVEMENT TRANSITIONS

DETAIL	NO SCALE
E401-01	

STATE	PROJECT	STREET
CA	CA FLAP 03511(1)	VJ6

NOTE:

- Erect all project advance warning signs before starting construction work.
- Not all details shown on the temporary traffic control sheets may be applicable to this project. The Contractor may add or delete information and details in this traffic control plan as necessary to accommodate actual operations.
- Where advance warning signs, placed as shown, interfere with permanent signs, locate the warning signs as determined by the CO for best results. Vary messages as required.
- Additional or different message signs may be required to fit the actual construction conditions.
- Install advisory speed plates under the W20 series warning signs as needed to indicate a maximum recommended speed through the construction area.
- Ensure all sign supports exposed to impact by traffic meet the requirements of NCHRP-350 or MASH for crashworthiness.
- Maintain two-way traffic during all non-work hours except as approved by the CO.
- Do not store traffic control devices along the roadway when not in use. Cover post-mounted signs when not applicable.
- If W20-1 is placed on a roadway other than that on which the actual construction work occurs, include a supplementary plaque indicating the name of the road on which the construction does occur (applies to major roads only).
- The message on the W20-1 signs may be "ROAD WORK AHEAD" or may specify the distance to the work area in feet or in miles. Install an additional W20-1 sign when speeds exceed 50 MPH. When used place the two W20-1 signs "8" feet apart according to the Sign Spacing Table.
- For work zones that are 2 miles or more in length, install G20-1 signs at each end of the project. Show the distance on the G20-1 sign to the nearest whole mile.
- If signing on a roadway under a jurisdiction other than the client agency, verify that an encroachment permit has been obtained.
- State standards may be used as an alternative if approved by the CO.
- Refer to the Section 635 of the Special Contract Requirements for allowable retroreflective sheeting types.



03/26/2021
FOR SELECTION ONLY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

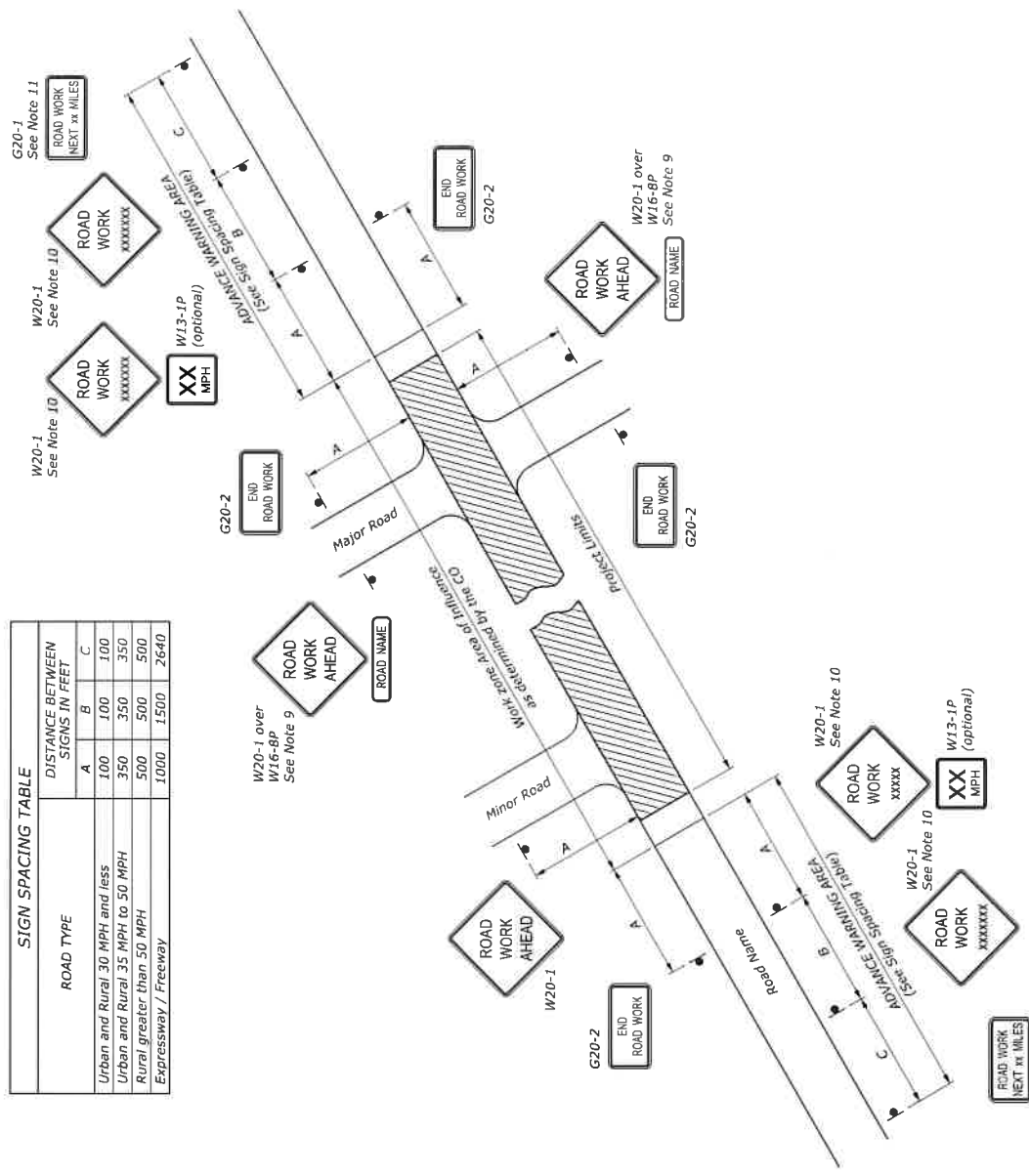
U.S. CUSTOMARY DETAIL

**TEMPORARY TRAFFIC CONTROL
ADVANCE SIGNING**

STANDARD APPROVED FOR USE: 635-1
REPLACES: 635-1, 635-1A, 635-1B

DETAIL
635-1

NO SCALE



SIGN SPACING TABLE	DISTANCE BETWEEN SIGNS IN FEET		
	A	B	C
Urban and Rural 30 MPH and less	100	100	100
Urban and Rural 35 MPH to 50 MPH	350	350	350
Rural greater than 50 MPH	500	500	500
Expressway / Freeway	1000	1500	2640

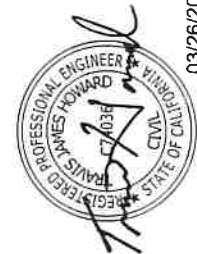
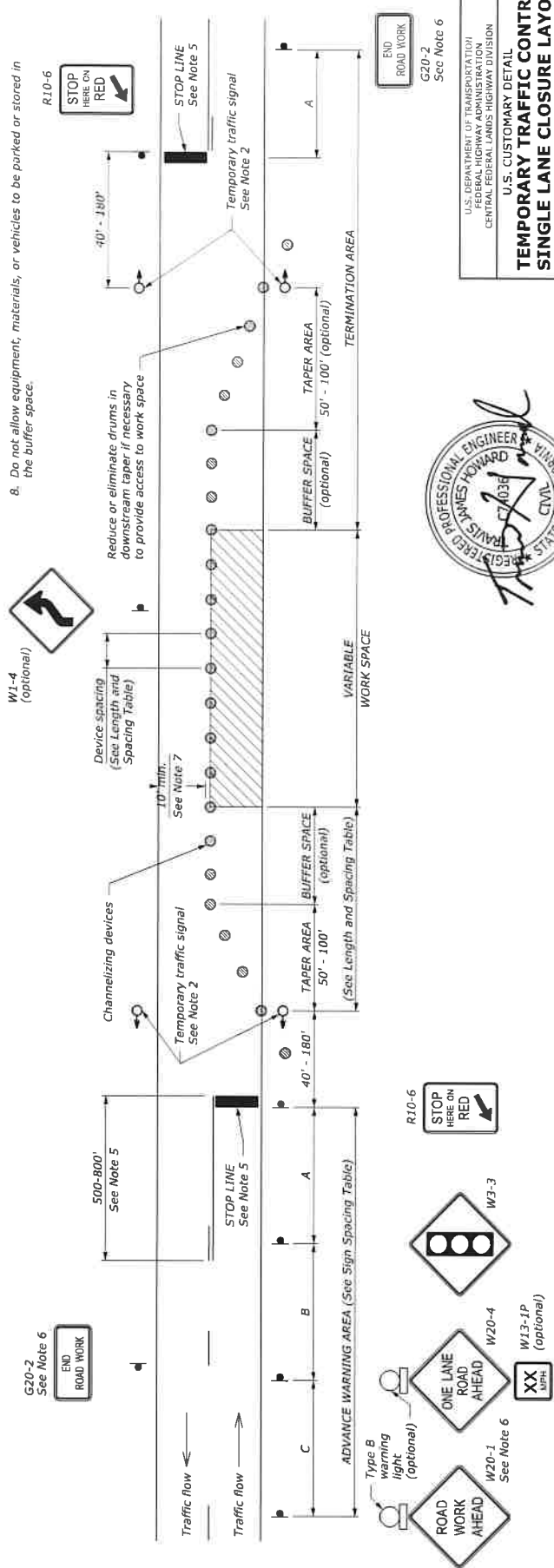
APPROACH SPEED*	BUFFER SPACE LENGTH		CHANNELIZING DEVICE TAPER AREA		CHANNELIZING DEVICE BUFFER SPACE		WORK SPACE	
	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
20	115	20	20	40	40	40	40	40
25	155	20	20	50	50	50	50	50
30	200	20	20	60	60	60	60	60
35	250	20	20	70	70	70	70	70
40	305	20	20	80	80	80	80	80
45	360	20	20	90	90	90	90	90
50	425	20	20	100	100	100	100	100
55	495	20	20	110	110	110	110	110
60	570	20	20	120	120	120	120	120
65	645	20	20	130	130	130	130	130
70	730	20	20	140	140	140	140	140

* Approach speed based on the regulatory posted speed, not the advisory speed.

ROAD TYPE	DISTANCE BETWEEN SIGNS IN FEET		
	A	B	C
Urban and Rural 30 MPH and less	100	100	100
Urban and Rural 35 MPH to 50 MPH	350	350	350
Rural greater than 50 MPH	500	500	500
Expressway / Freeway	1000	1500	2640

NOTE:

1. Signs are shown for one direction of travel only. Place devices similar to those depicted for the opposite direction of travel.
2. A single signal installation is acceptable, on the right-hand side of the road, if it has two signal faces that are at least 8 feet apart and meets the other requirements of Part 4 of the MUTCD.
3. Install and operate temporary traffic control signals in accordance with the provisions of the MUTCD, Part 4. Signal timing shall be established by a qualified engineer. When the signal is changed to the flashing mode either manually or automatically, ensure red signal indications are flashed to both approaches.
4. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CO. If signals are moved, revised signal timing must be determined by a qualified engineer.
5. If the roadway surface is paved, install stop lines that comply with Section 3B.16 of the MUTCD. Remove existing conflicting pavement markings and raised markers between the work space and the stop line. Add no-passing lines in advance of the stop line that comply with Section 3B.02 of the MUTCD. Removeable pavement markings may be used for stop lines and no-passing pavement markings.
6. If closure is completely within the project limits, eliminate the "ROAD WORK AHEAD" (W20-1) and "END ROAD WORK" (G20-2) signs.
7. For project specific minimum width, refer to Special Contract Requirements, Section 156.
8. Do not allow equipment, materials, or vehicles to be parked or stored in the buffer space.



03/26/2021
NO SCALE
FOR SELECTION ONLY

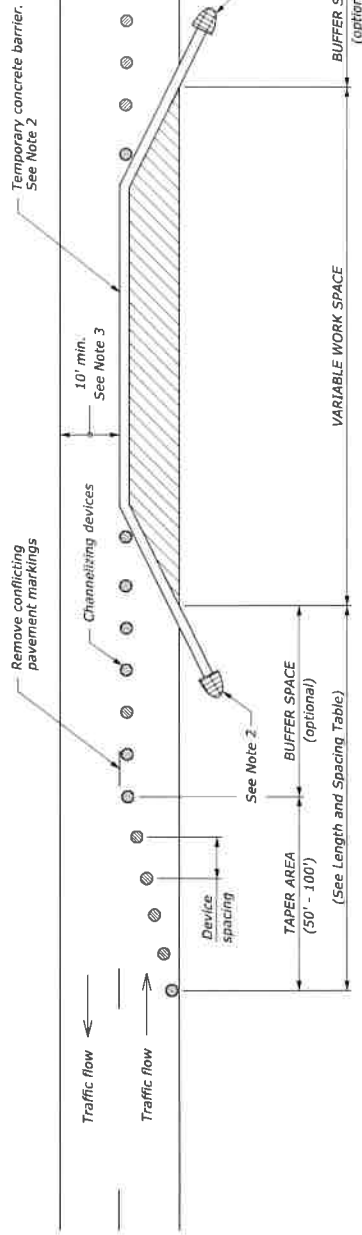
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 0351(1)	V18

NOTE:

1. Install signs and other devices for single lane closure according to Details ET 635-6, 7, 8, or 9. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CQ.
2. Place barrier according to the AASHTO Roadside Design Guide. Terminate barrier ends outside the work zone clear zone or protect the barrier ends with a crash cushion. Include reflectors on barrier at 25' intervals.
3. For project specific minimum width, refer to Special Contract Requirements, Section 156.
4. Place channelizing devices at downstream taper during non-work hours or when access is not needed.
5. Do not allow equipment, materials, or vehicles to be parked or stored in the buffer space.
6. Reduce or eliminate drums and barrier in downstream taper if necessary to provide access to work space.

APPROACH SPEED* MPH	BUFFER SPACE LENGTH FEET		CHANNELIZING DEVICE TAPER AREA SPACING IN FEET		CONCRETE BARRIER FLARE RATE	WORK ZONE CLEAR ZONE WIDTH FEET
	115	155	20	40		
20	115	155	20	40	1:8	10
25	155	200	20	50	1:8	10
30	200	250	20	60	1:8	10
35	250	305	20	70	1:9	10
40	305	360	20	80	1:10	15
45	360	425	20	90	1:12	20
50	425	495	20	100	1:14	20
55	495	570	20	110	1:16	20
60	570	645	20	120	1:16	30
65	645	730	20	130	1:16	30
70	730		20	140	1:16	30

* Approach speed based on the regulatory posted speed, not the advisory speed.



03/26/2021

FOR SELECTION ONLY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE LAYOUT (WITH TEMPORARY BARRIER)

DETAIL

REVISION: 8/2015 3/2016

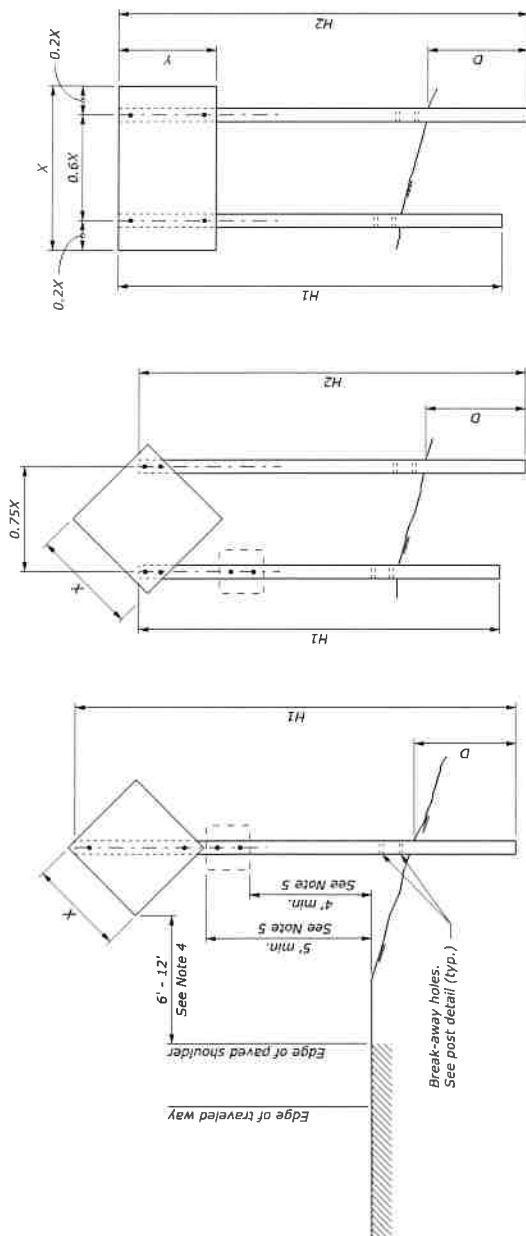
NO SCALE

ET 635-13

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03511(1)	V39

NOTE:

1. Attach sign panels with a minimum of 2 - 1/4" dia. bolts per post.
2. H1 and H2 = Overall post length.
3. Select post lengths to fit field conditions.
3. D = Post embedment depth for average soil conditions.
4. In areas where lateral distance is limited, a minimum lateral offset of 2' may be used. In areas with curbs, a minimum lateral distance of 1' behind the face of the curb may be used.
5. In pedestrian locations, or in areas with obstructed views, use 7' minimum mounting height for main sign and 6' minimum mounting height for secondary sign.
6. Use 7' minimum spacing between posts for sign posts 6' x 6' or larger.
7. State standards may be used as an alternative if approved by the CO.

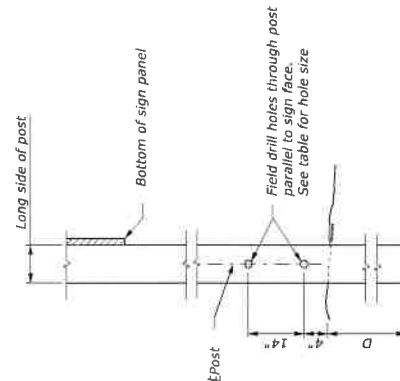


TWO POST SIGN

SINGLE POST SIGN

WOOD POST SELECTION TABLE

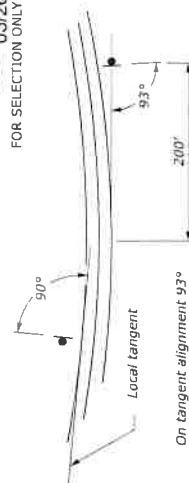
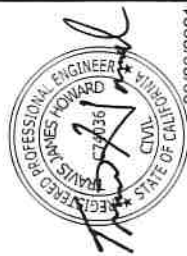
WIDTH 'X'	AREA (SQFT)	NUMBER OF POSTS	POST SIZE (INCH)	D (INCH)	HOLE SIZE (INCH)
Diamond ≤ 36"	< 10	1	4 x 4	36	0
Other Shapes ≤ 48"	10 - 20	1	4 x 6	48	1.5
Diamond ≤ 48"	10 - 20	1	6 x 6	48	2
Diamond ≤ 48"	20 - 50	2	4 x 4	36	0
Other Shapes ≤ 12'	20 - 50	2	4 x 6	48	1.5
> 13'	50 - 65	2	6 x 6	48	2
12' - 16'	50 - 65	3	4 x 6	48	1.5
> 17'	65 - 95	4	4 x 6	48	1.5
> 30'	65 - 95	3	6 x 6	48	2



POST DETAIL

FOR SELECTION ONLY

03/26/2021



SIGN INSTALLATION ANGLE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL TEMPORARY TRAFFIC CONTROL SIGN INSTALLATION WOOD POSTS

STANDARD APPROVED FOR USE: 8/2005
REVISION: 10/2017
DETAIL
635-14

NO SCALE



**Reds Meadow Road Improvements
Project
Final Environmental Assessment with
Finding of No Significant Impact and
Initial Study with Mitigated Negative
Declaration**

FTFS 03S11(1)

Prepared for the Federal Highway Administration,
Central Federal Lands Highway Division
Lakewood, Colorado

March 2018



U.S. Department of Transportation
Federal Highway Administration
Central Federal Lands Highway Division

and

THE TOWN OF MAMMOTH LAKES

In Cooperation with
U.S. Forest Service

**FINAL ENVIRONMENTAL ASSESSMENT WITH FINDING OF NO SIGNIFICANT
IMPACT AND INITIAL STUDY WITH MITIGATED NEGATIVE DECLARATION**

Submitted Pursuant to:

(Federal) 42 U.S.C. 4332(2)(c)
(State) Division 13, California Public Resources Code

For

Reds Meadow Road Improvements Project
FTFS 03S11(1)
Madera County, CA

Additional information may be obtained from the following individuals:

Wendy Longley, PE
Project Manager
Federal Highway Administration
Central Federal Lands Highway Division
12300 West Dakota Avenue
Lakewood, CO 80228
720-963-3394

Haislip Hays, PE
Engineering Manager
Department of Public Works
Town of Mammoth Lakes
P.O. Box 1609
Mammoth Lakes, CA 93546
760-965-3652

Approved by:



Curtis R. Scott, PE
FHWA-CFLHD, Chief Engineer

Date:

4/25/2018

Approved by:



Sandra Moberly
Town of Mammoth Lakes, Economic and Community
Development Manager

Date:

5.2.18

What's In This Document

The Federal Highway Administration (FHWA) Central Federal Lands Highway Division (CFLHD), with the Town of Mammoth Lakes and the U.S. Forest Service Inyo National Forest has prepared the Reds Meadow Road Improvements Project Environmental Assessment (EA) and Initial Study (IS), which examined the potential environmental impacts of the alternatives being considered for the proposed project located in Madera County, CA. The EA/IS document describes why the project is being proposed, alternatives considered for the project, the existing environmental conditions that could be affected by the project, the potential impacts from each of the alternatives, and the proposed measures to avoid, minimize, and/or mitigate project-related impacts.

FHWA-CFLHD is the lead agency for the National Environmental Policy Act (NEPA) compliance and the Town of Mammoth Lakes is the lead agency for the California Environmental Quality Act (CEQA) compliance. A Finding of No Significant Impact (FONSI) and Mitigated Negative Declaration are enclosed. The EA/IS circulated for public review is incorporated by reference (Appendix A), with response to public and agency comments received (Appendix B). Any updates, including new text or revisions to the EA/IS, are included in the enclosed errata.

For individuals with sensory disabilities, this document can be made available in Braille, large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please call or write to:

Wendy Longley, Project Manager
Federal Highway Administration
Central Federal Lands Highway Division
12300 West Dakota Avenue
Lakewood, CO 80228
720-963-3394
Wendy.Longley@dot.gov

U.S. Department of Transportation
Federal Highway Administration
Central Federal Lands Highway Division

FINDING OF NO SIGNIFICANT IMPACT

For

Reds Meadow Road Improvements Project
INYO NATIONAL FOREST
FTFS 03S11(1)
MADERA COUNTY, CA

This Finding of No Significant Impact is submitted pursuant to:

42 U.S.C. 4332(2)(c)

The Federal Highway Administration (FHWA), Central Federal Lands Highway Division (CFLHD), has determined that this project, for which Alternative 3 (the Preferred Alternative) has been selected, will have no significant impact on the human or natural environment. Principal areas of public controversy have been addressed, and there are no major unresolved issues outstanding. This finding is based on the attached Environmental Assessment, coordination with local and federal agencies, public involvement, and applicable laws, executive orders, and regulations. The Environmental Assessment, with revisions contained herein, accurately and adequately discusses the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. It lists environmental commitments to be carried out by the FHWA in order to minimize unavoidable impacts. The Environmental Assessment provides sufficient evidence and analysis for determining that an Environmental Impacts Statement is not required. The Federal Highway Administration takes full responsibility for the accuracy, scope and content of the following Environmental Assessment.

Approved by:



Curtis R. Scott, PE
FHWA-CFLHD, Chief of Engineers

Date:

4/25/2018

Mitigated Negative Declaration

Pursuant to: Division 13, Public Resources Code

Project Description

The Federal Highway Administration (FHWA) Central Federal Lands Highway Division (CFLHD), in cooperation with the Town of Mammoth Lakes and with the U.S. Forest Services Inyo National Forest, is proposing improvements to Reds Meadow Road in Inyo National Forest. The project includes improvements to approximately 8 miles of Reds Meadow Road in Inyo National Forest, from the Minaret Vista Entrance Station to the dead-end at Reds Meadow Resort. Proposed improvements were described in Alternative 3 of the Initial Study. The Proposed Improvements are described as two segments: Upper 2.5-Mile Segment and the 5.8-Mile Lower Segment. The following bullets describe the proposed improvements:

- Proposed improvements in the Upper 2.5-Mile Segment include reconstructing and widening the existing roadway to 22 feet with 1-foot minimum shoulders and a design option to extend the fill-side shoulder to 4 feet. Culverts would also be replaced and potentially up-sized, as needed. Culvert inlets would be designed and constructed based on site conditions and culvert outfalls would be designed and constructed to correspond with the proposed downhill slope conditions. Fill slopes would be used to widen the roadway where topography allows. Extensive retaining wall work, primarily on the downhill side of the roadway, would be implemented to support the widened roadway in areas too steep for traditional fill slope improvements. The potential modification of existing rock outcroppings through the use of minor cut-side walls and grading, at select locations, may also be necessary. In addition to the widened cross-section, the alternative would include applicable signage, new striping, and guard rail along segments with fill-side retaining walls.
- Proposed improvements in the 5.8-Mile Lower Segment include pavement rehabilitation and culvert replacement. The proposed improvements to the lower segment may involve minor vegetation clearing immediately adjacent to the roadway to accommodate construction activities. The existing pavement width is approximately 22 feet and would be repaved to a width of 22 feet with associated shoulder stabilization and appropriate signing and striping. Select tight curves that experience wheel off tracking by buses or trailers could receive minor inside pavement widening to improve safety and reduce roadside rutting. Culverts would be replaced, potentially up-sized in diameter, and include riprap at the inlet and outlet to control scour. Select areas with substandard sight distance would be addressed through minor vegetation removal and/or rock outcrop removal. Failing roadside fill slopes (e.g., location approximately 500 feet north of the Devils Postpile National Monument entrance turn-off) would be repaired by excavating the embankment and replacing with a retaining wall and compacted backfill. The existing underground utilities within the road prism would be protected in place. In the event the utility requires relocation due to construction, it would be relocated within the existing roadway prism. Additionally, a new underground conduit and associated appurtenances are proposed to accommodate a fiber optic cable for information transmission along the corridor.

Determination

The Town of Mammoth Lakes has prepared an Initial Study for this project, and following public review, has determined from this study that the proposed project would not have a significant effect on the environment for the following reasons:

The proposed project would have no effect on:

- Agricultural and Forest Resources
- Air Quality
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Land Use and Planning
- Mineral Resources
- Population and Housing
- Public Services
- Recreation
- Transportation/Traffic

In addition, the proposed project would have less-than-significant effects to:

- Hydrology and Water Quality
- Cultural Resources
- Noise

With incorporation of mitigation measures proposed in the Initial Study, the proposed project would have less-than-significant effects to:

- Aesthetics
- Biological Resources
- Tribal Cultural Resources
- Utilities and Service Systems

Approved by: refer to NOD signed June 7, 2018

Date: _____

Sandra Moberly
Town of Mammoth Lakes, Economic and Community
Development Manager

APPENDIX B

FIRE PLAN

FIRE PLAN FOR CONSTRUCTION AND SERVICE CONTRACTS

08/02/2012

1. **SCOPE:**

The provisions set forth below outline the responsibility for fire prevention and suppression activities and establish a suppression plan for fires within the contract area. The contract area is delineated by map in the contract. The provisions set forth below also specify conditions under which contract activities will be curtailed or shut down.

2. **RESPONSIBILITIES:**

A. Contractor

- (1) Shall abide by the requirements of this Fire Plan.
- (2) Shall take all steps necessary to prevent his/her employees, subcontractors and their employees from setting fires not required in completion of the contract, shall be responsible for preventing the escape of fires set directly or indirectly as a result of contract operations, and shall extinguish all such fires which may escape.
- (3) Shall permit and assist in periodic testing and inspection of required fire equipment. Contractor shall certify compliance with specific fire precautionary measures in the fire plan, before beginning operations during Fire Precautionary Period and shall update such certification when operations change.
- (4) Shall designate in the Fire Plan and furnish on Contract Area, during operating hours, a qualified fire supervisor authorized to act on behalf of Contractor in fire prevention and suppression matters.

B. Forest Service

The Forest Service may conduct one or more inspections for compliance with the Fire Plan. The number, timing, and scope of such inspections will be at the discretion of agency employees responsible for contract administration. Such inspections do not relieve the Contractor of responsibility for correcting violations of the fire plan or for fire safety in general, as outlined in paragraph 2.A above.

3. **DEFINITIONS:**

The following definitions shall apply:

Active Landing: A location the contractor may be skidding logs into, or performing other operations such as delimbing, log manufacturing, and chipping logs. Except for EV and E days, loading logs or stockpiling chips only, on a cleared landing, does not constitute an Active Landing.

Hot Saw: A harvesting system that employs a high-speed (>1100 rpm) rotating felling head, i.e., full rotation lateral tilt head.

Mechanical Operations: The process of felling, skidding, chipping, shredding, masticating, piling, log processing and/or yarding which requires the use of motorized power which includes, chainsaws, chippers, motorized carriages, masticators, stroke delimiters, skidders, dozers etc.

4. **TOOLS AND EQUIPMENT:**

The Contractor shall comply with the following requirements during the fire precautionary period, as defined by unit administering contracts:

The Fire Precautionary Period is set by the State of California which is April 1 through December 1 of any year.

- **This contract ☒ requires, ☐ does not require, a Fire Box and associated Fire Tools according to CPRC Section 4428.**

A. Fire Tools and Equipment: Contractor shall meet minimum requirements of Section 4428 of the California Public Resources Code (C.P.R.C.). Fire tools kept at each operating landing shall be sufficient to equip all employees in the felling, yarding, loading, chipping, and material processing operations associated with each landing. Fire equipment shall include two tractor headlights for each tractor dozer used in Contractor's Operations. Tractor headlights shall be attachable to each tractor and served by an adequate power source. All required fire tools shall be maintained in suitable and serviceable condition for fire fighting purposes.

Trucks, tractors, skidders, pickups and other similar mobile equipment shall be equipped with and carry at all times a size 0 or larger shovel with an overall length of not less than 46 inches and a 2-1/2 pound axe or larger with an overall length of not less than 28 inches.

Where cable yarding is used, Contractor shall provide a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump within 25 feet of each tail and corner block.

B. Fire Extinguishers: Contractor shall equip each internal combustion yarder, fuel truck, and loader with a fire extinguisher for oil and grease fires (4-A:60-B:C).

Skidders and tractors shall be equipped with a minimum 5-BC fire extinguisher.

All Fire Extinguishers shall be mounted, readily accessible, properly maintained and fully charged.

Contractor shall equip each mechanized harvesting machine with hydraulic systems, powered by an internal combustion engine (chipper, feller/buncher, harvester, forwarder, hot saws, stroke delimeter, etc), except tractors and skidders, with at least two 4-A:60-B:C fire extinguishers or equivalent.

C. Spark Arresters and Mufflers: Contractor shall equip each operating tractor and any other internal combustion engine with a spark arrester, except for motor vehicles equipped with a maintained muffler as defined in C.P.R.C. Section 4442 or tractors with exhaust-operated turbochargers. Spark Arresters shall be a model tested

and approved under Forest Service Standard 5100-1a as shown in the. National Wildlife Coordinating Group Spark Arrester Guide, Volumes 1 and 2, and shall be maintained in good operating condition. Every motor vehicle subject to registration shall at all times be equipped with an adequate exhaust system meeting the requirements of the California Vehicle Code.

D. Power Saws: Each power saw shall be equipped with a spark arrester approved according to C.P.R.C. Section 4442 or 4443 and shall be maintained in effective working order. An Underwriters Laboratories (UL) approved fire extinguisher containing a minimum 14 ounces of fire retardant shall be kept with each operating power saw. In addition, a size 0 or larger shovel with an overall length of not less than 38 inches shall be kept with each gas can but not more than 300 feet from each power saw when used off cleared landing areas.

• **This contract ☒ requires, ☐ does not require, Section 4E of the Fire Plan.**

E. Tank Truck or Trailer: Contractor shall provide a **water tank truck or trailer** on or in proximity to Contract Area during Contractor's Operations hereunder during Fire Precautionary Period. When Project Activity Level B or higher is in effect, a tank truck or trailer shall be on or immediately adjacent to each active landing, unless otherwise excepted when Hot Saws or Masticators are being used. See Section 6 for specific contract requirements.

The tank shall contain at least 300 gallons of water available for fire suppression. Ample power and hitch shall be readily available for promptly and safely moving tank over roads serving Contract Area. Tank truck or trailer shall be equipped with the following:

- (1) Pump, which at sea level, can deliver 23 gallons per minute at 175 pounds per square inch measured at the pump outlet. Pumps shall be tested on Contract Area using a 5/16 inch orifice in the Forester One Inch In-Line Gauge test kit. Pump shall meet or exceed the pressure value in the following table for nearest temperature and elevation:

T e m p	Sea Level	1000 Feet	2000 Feet	3000 Feet	4000 Feet	5000 Feet	6000 Feet	7000 Feet	8000 Feet	9000 Feet	10000 Feet
55	179 23	174 23	169 23	165 22	161 22	157 22	153 22	150 21	146 21	142 21	139 21
70	175 23	171 23	166 22	162 22	158 22	154 22	150 21	147 21	143 21	139 21	136 20
85	171 23	168 23	163 22	159 22	155 22	151 21	147 21	144 21	140 21	136 20	133 20
100	168 23	164 23	159 22	155 22	152 22	148 21	144 21	141 21	137 20	133 20	131 20
	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I	G P M	P S I

The pump outlet shall be equipped with 1-1/2 inch National Standard Fire Hose thread. A bypass or pressure relief valve shall be provided for other than centrifugal pumps.

- (2) 300 feet of 3/4-inch inside diameter rubber-covered high-pressure hose mounted on live reel attached to pump with no segments longer than approximately 50 feet, when measured to the extreme ends of the couplings. Hose shall have reusable compression wedge type 1-inch brass or lightweight couplings (aluminum or plastic). One end of hose shall be equipped with a coupling female section and the other end with a coupling male section. The hose shall, with the nozzle closed, be capable of withstanding 200 PSI pump pressure without leaking, distortions, slipping of couplings, or other failures.
- (3) A shut-off combination nozzle that meets the following minimum performance standards when measured at 100 P.S.I. at the nozzle:

	G.P.M.	Horizontal Range
Straight Stream	10	38 feet
Fog Spray	6 - 20	N/A

- (4) Sufficient fuel to run the pump at least 2 hours and necessary service accessories to facilitate efficient operation of the pump.

When Contractor is using Hot Saws or Masticators, an additional 250 feet of light weight hose, approved by the Forest Service, shall be immediately available for use and be capable of connecting to the 300 feet of hose and appurturances in (2) and (3) above.

This equipment and accessories shall be deliverable to a fire in the area of operations and is subject to the requirements for each specific activity level identified in Section 6.

F. Compressed Air Foam System: A Compressed Air Foam System (CAFS) is a fire suppression system where compressed air is added to water and a foaming agent. By agreement, Contractor may substitute a CAFS or functional equivalent in lieu of the tank truck, trailer or fire extinguishers, provided it meets or exceeds the following specifications and requirements:

1. Variable foam expansion ratio – 10:1 to 20:1.
2. Units shall be kept fully charged with air; water and foam concentrate as recommended by the manufacturer and have the appropriate tools to service the system.
3. The unit shall contain enough energy to empty tank and clear hose prior to exhausting propellent.
4. The unit shall be capable of being completely recharged within 10 minutes.
5. When used on cable yarding landings, the unit shall be outfitted for immediate attachment to carriage and transported without damage to the unit.

Fire extinguishers required for Hot Saws, Masticators and similar equipment identified in Section 4 B. above may be substituted with a 3 gallon CAFS.

Tank truck, trailer or equivalent may be substituted with a 30 Gallon CAFS with at least 550 feet of one inch hose and an adjustable nozzle with enough water, air and foam concentrate for at least one recharge.

This equipment and accessories shall also be deliverable to a fire in the area of operations and subject to the requirements for each specific activity level identified in Section 6.

5. **GENERAL**

- A. **State Law:** In addition to the requirements in this Fire Plan, the Contractor shall comply with all applicable laws of the State of California. In particular, see California Public Resource Codes.
- B. **Permits Required:** The Contractor must secure a special written permit from the District Ranger or designated representative before burning, welding or cutting metal or starting any warming fires. If contract requires Blasting and Storing of Explosives and Detonators, an Explosives Permit may be required pursuant to the California Health and Safety Code, Section 12101.
- C. **Blasting:** Contractor shall use electric caps only unless otherwise agreed in writing. When blasting is necessary in slash areas, a Fire Patrolperson equipped with a size 0 or larger shovel with an overall length of not less than 46 inches and a filled backpack can (4 or 5 gallon) with hand pump shall remain in the immediate area for an hour after blasting has been completed.
- D. **Smoking:** Smoking shall not be permitted during fire season, except in a barren area or in an area cleared to mineral soil at least three feet in diameter. In areas closed to smoking, the CO may approve special areas to be used for smoking. The Contractor shall sign designated smoking areas. Contractor shall post signs regarding smoking and fire rules in conspicuous places for all employees to see. Contractor's supervisory personnel shall require compliance with these rules. Under no circumstances shall smoking be permitted during fire season while employees are operating light or heavy equipment, or walking or working in grass and woodlands.
- E. **Storage and Parking Areas.** Equipment service areas, parking areas, and gas and oil storage areas shall be cleared of all flammable material for a radius of at least 10 feet unless otherwise specified by local administrative unit. Small mobile or stationary internal combustion engine sites shall be cleared of flammable material for a slope distance of at least 10 feet from such engine. The COR shall approve such sites in writing.
- F. **Reporting Fires:** As soon as feasible but no later than 15 minutes after initial discovery, Contractor shall notify Forest Service of any fires on Contract Area or along roads used by Contractor. Contractor's employees shall report all fires as soon

as possible to any of the following Forest Service facilities and/or personnel listed below, but not necessarily in the order shown:

	Name	Office Address	Office telephone
Dispatch Center	OVICC	351 Pacu Lane, Bishop	(760) 873-2488
Nearest FS Station	Fire Station 2	2500 HWY 203, Mammoth	(760) 924-5529
FS Fire Prevention	Isabel Kusumoto	2500 HWY 203, Mammoth	(760) 924-5538
FS project contact	Nora Gamino	351 Pacu Lane, Bishop	(760) 873-2414
District Ranger	Gordon Martin	2500 HWY 203, Mammoth	(760) 873-5500

When reporting a fire, provide the following information:

- Your Name
- Call back telephone number
- Project Name
- Location: Legal description (Township, Range, Section); and Descriptive location (Reference point)
- Fire Information: Including Acres, Rate of Spread and Wind Conditions.
- **This contract ☒ requires, ☐ does not require, Section 5G of the Fire Plan.**

G. **Communications:** Contractor shall furnish a serviceable telephone, radio-telephone or radio system connecting each operating side with Contractor's headquarters. When such headquarters is at a location which makes communication to it clearly impractical, Forest Service may accept a reasonable alternative location. The communication system shall provide prompt and reliable communications between Contractor's headquarters (or agreed to alternative) and Forest Service via commercial or Forest Service telephone.

- **This contract ☒ requires, ☐ does not require, Section 5H of the Fire Plan.**

H. **Fire Patrolperson:** Contractor shall furnish a qualified fire patrolperson each operating day when Project Activity Level C or higher is in effect. When on duty, sole responsibility of patrolperson shall be to patrol the operation for prevention and detection of fires, take suppression action where necessary and notify the Forest Service as required. This Fire patrol is required on foot, unless otherwise agreed. By agreement, one patrolperson may provide patrol on this and adjacent projects. No patrolperson shall be required on Specified Road construction jobs except during clearing operations unless otherwise specified.

The Contractor shall, prior to commencing work, furnish the following information relating to key personnel:

<u>Title</u>	<u>Name</u>	<u>Telephone Number</u>
<u>Fire Supervisor</u>		
<u>Fire Patrolperson</u>		

- I. **Clearing of Fuels:** Contractor shall clear away, and keep clear, fuels and logging debris as follows:

Welding equipment and stationary log loaders, yarders and other equipment listed in California State Law:	10 feet slope radius
Tail or corner haulback blocks:	All running blocks shall be located in the center of an area cleared to mineral soil at least 15 feet in diameter.
Lines near, between or above blocks:	Sufficient clearing to prevent line from rubbing on snags, down logs and other dead woody material.

6. **EMERGENCY PRECAUTIONS**

Contractor's Operations shall conform to the limitations or requirements in the Project Activity Level (PAL) table below. Project Activity Levels applicable to this project shall be the predicted activity levels for the Fire Danger Rating Area(s), or fire weather station(s) stated in the Contract Area Map Legend on Integrated Resource Service Contracts (IRSC's), and other contracts where applicable.

Fire Danger Rating Area/Fire Weather Station for Project

North Zone

The Forest Service, in its sole discretion, may change the predicted activity level if the current fire suppression situation, weather and vegetation conditions warrant an adjustment. If practicable, Forest Service will determine the following day's activity level by 6:00 PM. Contractor shall obtain the predicted Project Activity Level from the appropriate Ranger District Office before starting work each day.

Phone Number or Website to obtain Predicted Activity Levels: (760) 873-2555 Option 3

Forest Service may change the Project Activity Level Table to other values upon revision of the National Fire Danger Rating System. When Contractor is notified, the revised Project Activity Levels will supersede the levels in the Project Activity Level Table below.

PROJECT ACTIVITY LEVEL

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
A	Minimum requirements noted above in Sections 4 and 5.
B	1. Tank truck, trailer, or approved CAFS substitute shall be on or adjacent to the Active Landing.
C	1. When Hot Saws or Masticators are operating, a tank truck, trailer, or approved CAFS substitute shall be within ¼ mile of these operations. Effective communications shall exist between the operator and the Active Landing. 2. Immediately after Mechanical Operations cease, Fire patrol is required for two hours.
D	1. Immediately after Hot Saw or Masticator operations cease, Fire patrol is required for three hours. 2. No Dead Tree felling after 1:00 PM, except recently dead. 3. No burning, blasting, welding or cutting of metal after 1:00 PM, except by special permit.

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
Ev	1. The following activities may operate all day: a) Loading and hauling logs decked at approved landings. b) Loading and hauling chips stockpiled at approved landings. c) Servicing equipment at approved sites. d) Dust abatement, road maintenance (Chainsaw use prohibited), culvert installation within cleared area, chip sealing, paving, earth moving or rock aggregate stock pile loading and installation (does not include pit or quarry development). e) Chainsaw and log processing operations associated with loading logs or other forest products at approved landings. 2. Hot Saws or Masticators may operate until 1:00 PM; provided that: a) A tractor with a blade or other equipment capable of constructing fireline is on or adjacent to the active landing or within ¼ mile of the operating equipment. This piece of equipment shall have effective communication with the Hot Saw or Masticator. b) Any additional restrictions specified by the Forest. 3. All other conventional Mechanical Operations are permitted until 1:00 PM. 4. Some operations may be permitted after 1:00 PM, on a case-by-case basis, under the terms of a PAL Ev Variance Agreement. Activities for which a Variance may be issued are: • Rubber Tire Skidding • Chipping on Landings • Helicopter Yarding • Fire Salvage When approved by a Line Officer, a Variance Agreement can be implemented when the criteria specified in the agreement are met and mitigation measures are in place. This approval is good for ten (10) days unless cancelled sooner or extended by the Contracting Officer for an additional ten (10) days. Variance approval can be withdrawn at the sole discretion of the Forest Service. Variance approval is contingent on the 7-day fire weather forecast, fuel conditions, site characteristics, current fire situation, state of Contractor's equipment for prevention and suppression readiness, type of operation and social and community considerations etc. (See attached Project Activity Level Variance Agreement).

Level	<i>Project Activity Minimum Requirements and Restrictions. Restrictions at each level are cumulative.</i>
E	The following activities may operate all day: 1. Loading and hauling logs decked at approved landings. 2. Loading and hauling chips stockpiled at approved landings. 3. Servicing Equipment at approved sites. 4. Dust abatement, road maintenance (chainsaw use prohibited) or loading stock piles and rock aggregate installation (does not include pit or quarry development). 5. Chainsaw operation associated with loading at approved landings. All other activities are prohibited.

This Project utilizes “The Project Activity Level” (PAL), an industrial operation’s fire precaution system. The following Climatology Chart indicates the Historic Activity Levels for the Project Fire Danger Rating Area or Fire Weather Station utilized on this Project. This is only a historical average of the Activity Levels for the identified Fire Danger Rating Area or Weather Station.

Project Activity Level Climatology								
Fire Danger Rating Area/Weather Station	Crestview RAS				Years Analyzed		2005-2012	
	A	B	C	D	Ev	E	Days	
Month	Expected Days per Month at Each PAL Value						Analyzed	
July	0.5	2.1	14.0	7.9	6.1	0.0	245	
August	0.6	1.9	11.0	8.4	8.4	0.0	242	
September	0.9	2.5	13.6	8.8	3.9	0.3	239	
October	2.1	6.6	12.8	4.6	0.9	0.0	216	

Region 5 Project Activity Level (PAL) Ev Variance Application/Agreement

Project Name: _____
 Contract Number: _____
 Contractor Name: _____
 Request # __, for period: _____
 Units/Subdivisions Affected: _____

Location of operation:	
Slope	
Aspect	
Elevation	
Fuels on site	
Fuels in surrounding area	
7 Day PAL Outlook	
Short range predictions (Red Flags)	
Fuel Moistures	
Response time of suppression resources	
Potential for ignition	
RAWS location	
Current Fire Situation:	
Draw down information	
National Readiness Level	
Contractual considerations:	
Normal Operating Season	
Frequency of recent contract fires in area	
Type of operation	
Contractors past/current performance & equipment readiness	
Other site specific mitigation or precaution (i.e. Contractors proposals)	
Social & Community Considerations:	
Proximity of high value resources	
Sensitivity of location	

Proposed Actions:**Description of Mitigation Measures:****Remarks:**_____
Fire Management Officer Concurrence_____
Date_____
Line Officer Approval_____
Date

I have considered the above request and determined the specified mitigation measures or actions must be implemented to continue operations in Project Activity Level Ev. Unless extended, the approval remains in effect for ten (10) calendar days unless cancelled sooner or extended by the Forest Service for an additional ten (10) days. At the sole discretion of the Forest Service, this variance can be modified and/or cancelled at no cost to the government.

Contracting Officer_____
Date_____
Contractor Representative_____
Date

APPENDIX C
ENVIRONMENTAL TRAINING

Worker Environmental Awareness Training

Red Meadow Roadway Project

Instructions: Each employee must review each box and sign and date the bottom of this sheet.

Environmental Requirements:

Goal: To minimize impacts to the environment and to avoid permit or agreement non-compliance.

Work Zones:

- ☐ No construction activities are to take place outside of the clearing limits.
- ☐ Do not cross streams or wetland areas in construction vehicles or equipment unless unauthorized by Contractor management or the CO.
- ☐ Observe a 15-mph construction zone speed limit.
- ☐ Install flagging and/or temporary fencing prior to excavation activities to reduce the potential for vehicles and equipment to stray into adjacent habitats, including the root zones of whitebark pine.
- ☐ Fence and do not enter Environmentally Sensitive Areas (ESAs).
- ☐ Designate contractor staging areas for materials and equipment storage outside of stream exclusion zone (SEZ) areas.

Cultural Resources:

- ☐ Notify the CO if any cultural resources are found during construction activities.

Water Quality:

- ☐ Do not flush concrete trucks or flumes near wetlands or water.
- ☐ Servicing vehicles and construction equipment, including fueling, cleaning, and maintenance, at least 50 feet from any aquatic habitat unless separated by a topographic or drainage barrier.
- ☐ Maintain all equipment/vehicles in good working condition to prevent the leakage of vehicle fluids, such as gasoline, oils, or solvents, and develop a Spill Prevention Control Plan.
- ☐ Hazardous materials such as fuels, oils, solvents, etc. will be stored in sealable containers in a designated location that is at least 50 feet from wetlands and aquatic habitats.
- ☐ Keep hazardous materials away from all waterways.
- ☐ Utilize Best Management Practices (BMPs) to minimize wind and water related erosion.
- ☐ Maintain erosion control measures until vegetation or landscaping is established.
- ☐ Cover all trucks hauling loose materials.
- ☐ Material stockpiles will be watered, sprayed with tackifier, or covered to minimize dust production and wind erosion.
- ☐ Retain sediment onsite using sediment basins, traps, or other appropriate BMPs.
- ☐ Control dust with water trucks as needed and do not track dirt onto public roads.

Topsoil and Noxious Weeds:

- ☐ Fill and seed materials that need to be imported to the Project site will be certified weed-free.
- ☐ Store topsoil in approved areas and at an approved depth.
- ☐ Inspect and clean construction equipment at an approved location to remove any noxious weed seeds prior to use on the project. Clean vehicles and equipment using high-pressure water or air at designated weed-cleaning stations. Cleaning stations will be designated by the contractor or contract officer and located away from aquatic resources. Inspect equipment for mud or other signs that weed seeds or propagules could be present before use in the construction limits.
- ☐ Replant, Reseed, and Restore Disturbed Areas.

Wildlife and Invasive Species:

- ☐ Do not bring pets or firearms on site.

Worker Environmental Awareness Training
Red Meadow Roadway Project

- ☐ Cover all excavated holes and trenches greater than one foot in depth and check for animals before working in the holes; cap stored pipes and culverts.
- ☐ Dispose of all trash in covered bins on site, including food scraps.
- ☐ Check for wildlife under equipment before operating it.
- ☐ Limit work during wet season (except for limited vegetation clearing). Earthmoving limited to May 1 through October 15.
- ☐ All equipment, including individual equipment such as waders, wading boots, or other items, entering the construction limits that will be used in or around aquatic areas will be decontaminated.
- ☐ If clearing and grubbing occur between February 15 and September 1, a qualified biologist(s) will survey for nesting birds within the area(s) to be disturbed, including a perimeter buffer of 50 feet for passerines and 300 feet for raptors, before clearing activities begin.

Failure to Comply: All Contractors are responsible for compliance with the Endangered Species Act. Under the Endangered Species Act any person knowingly violating any provision of the Act can be fined not more than \$20,000 or imprisoned for not more than one year, or both.

Sign below to acknowledge the following statement: I have read this document and agree to all requirements.

Name (Printed):

Signature:

Company:

Date:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Red Meadow Roadway Project

Date:

[illegible]

Worker Environmental Awareness Training
Red Meadow Roadway Project

Name (Printed):

Signature:

Company:

Date:

[illegible]



Cultural & Paleontological Resources

If buried prehistoric or historic materials, paleontological resources, and/or human remains are discovered during ground disturbing work, **STOP WORK** in the immediate vicinity and contact the Project Engineer or Contracting Officer immediately.

Water & Air Quality

- Utilize BMPs to minimize wind and water related erosion.
- Maintain erosion control measures until vegetation or landscaping is established.
- Cover all trucks hauling loose materials.
- Retain sediment onsite using sediment basins, traps, or other appropriate measures.
- Maintain all equipment/vehicles in good working condition (e.g., leak free).
- Control dust with water trucks as needed.
- Don't track dirt onto public roads.

Project Work Limits

- Observe a 15-mph construction zone speed limit.
- Install flagging and/or temporary fencing prior to excavation activities to reduce the potential for vehicles and equipment to stray into adjacent habitats, including the root zones of whitebark pine.
- Fence and do not enter Environmentally Sensitive Areas (ESAs).
- Designated contractor staging areas for materials and equipment storage outside of stream exclusion zone (SEZ) areas.

- Limit work during wet season. Earthmoving limited to May 1 through October 15.

Basic Environmental Compliance Knowledge

- Attend Worker Environmental Awareness Training.
- Do not bring pets or firearms on site.
- Cover all excavated holes and trenches greater than one foot in depth and check for animals before working in the holes; cap stored pipes and culverts.
- Dispose of all trash in covered bins on site, including food scraps.
- Fuel and service equipment at approved staging areas.
- Keep hazardous materials away from all waterways.
- Check for wildlife under equipment before operating it.
- Replant, Reseed, and Restore Disturbed Areas.

Project Contacts

Project Engineer:
Name: (720) 963-5555

Construction Operations Engineer:
Andrew Coit: (720) 775-9584

Project Manager:
Dustin Robbins: (720) 963-3586



Reds Meadow Road Improvement Project

Worker Environmental Awareness Training



JACOBS

The following protected species may occur in the Project area.

If any of the protected species are spotted on the project site, **STOP WORK** in the area and contact the Project Engineer immediately. Only qualified biologists are approved to handle these species.



Protected Species

Yosemite Toad (Federally listed species)



- Males: smaller and one solid color, yellow-green to a darker greenish-brown,
- Females have black spots or splotches edged with white or cream, set against a grey, tan, or brown color.

- Active during day, usually sunny days. Typically observed in wet meadows and forests at high elevations (4,800 to 12,000 ft).

Prairie Falcon

- Range from 14 to 19 inches long. The blackish wing linings and axillars (armpit) are diagnostic.



- Open habitat at all elevations up to 11,000 ft; arid plains and steppes, wherever cliffs or bluffs are present for nesting sites.

Whitebark Pine (Federally listed species)



- A slow growing, long-lived five-needled conifer species. It grows at high elevations on cold and windy sites in the western U.S.
- This pine tree species is found along the Reds Meadow project corridor. A biologist will identify these species for protection prior to start of construction. Heavy equipment use and excavation near root zones of these pines will be restricted.

Bald Eagle

- One of the largest birds in CA, with a wingspan of up to 8 feet.
- Distinguished by a white head and white tail feathers.
- Bald Eagles live near rivers, lakes, and marshes where they can find fish, their staple food.
- Bald Eagles will also feed on waterfowl, turtles, rabbits, snakes, and other small animals and carrion.

Fisher



- Forest-dwelling mammals in a family that includes weasels, mink, martens, and otters.
- About the size of a large house-cat and are light brown to dark blackish-brown.

- The fisher has a long body with short legs and a long bushy tail.
- Resident of coniferous and mixed coniferous forests. Prefer old trees for their dens within large stands of conifers or mixed tree types.

Nesting Birds

- Most nesting birds are protected by the Migratory Bird Treaty Act and CDFW code.



- Buffer areas will be established around active nests, where work will be restricted.

The **Endangered Species Act** establishes protections for fish, wildlife, and plants that are listed as threatened or endangered. These imperiled species are provided strict protections under federal law to ensure their continuing survival. It is unlawful to kill, harm or harass any species listed under the Endangered Species Act. Both the Yosemite Toad and the Whitebark Pine are within the project area and can be found along Reds Meadow Road.

Please be responsible and protect fish, wildlife, and plant species by staying within project limits and following all contract specifications.

APPENDIX D
SAMPLE SMALL BUSINESS
SUBCONTRACTING PLAN

ATTACHMENT 1 – FHWA SUBCONTRACTING PLAN

1. INSTRUCTIONS:

- Where subcontracting opportunities will not exist for the solicitation, the bidder/offeror shall submit a response outlining the rationale for making this determination with its proposal/bid. The statement shall be signed by an official authorized to make decisions on behalf of the firm.
- The following information shall be provided in the bidder/offeror subcontracting plan submission and shall be expressed in terms of goal percentages of the total planned subcontracting dollars.
- Text lines may be added to this template as needed.

Note to the CS/CO: Per APM 025, where a subcontracting plan is required, the complete solicitation shall be sent to the Small Business Specialist (SBS) for review/approval along with **Attachment 3, Combined Subcontracting Plan Routing Sheet**. Prior to award, completed Subcontracting Plan(s) shall be sent to the SBS for review/approval along with the previously signed routing sheet.

SUBCONTRACTING GOALS – BASE YEAR		
Total prime contract amount – Base Year:	\$ [insert amount]	
Total planned subcontracted amount (regardless of firm/entity size status) – Base Year:	\$ [insert amount]	
Total planned subcontracts to “other than small business” concerns (i.e., large, non-profit, university, etc.)	\$[insert amount]	[insert #]% ¹
Total planned subcontracts to Small Business concerns:	\$[insert amount]	[insert #]% ²
• Total planned subcontracts to Veteran Owned Small Business concerns (VOSB) ³ :	\$[insert amount]	[insert #]%
o Total planned subcontracts to Service-Disabled Veteran Owned Small Business (SDVOSB) concerns:	\$[insert amount]	[insert #]%
• Total planned subcontracts to Historically Underutilized Business Zones (HUBZones):	\$[insert amount]	[insert #]%
• Total planned subcontracts to Small Disadvantaged Business (SDB) concerns (includes 8(a), Alaska Native Corporations (ANC), and Indian Tribes):	\$[insert amount]	[insert #]%
• Total planned subcontract awards to Women-Owned Small Business concerns (WOSB) ⁴ concerns:	\$[insert amount]	[insert #]%

**insert and complete additional tables if the contract includes option year(s).*

¹ Percentage = (subcontracted amount in the category/total planned subcontracted amount)

² Planned subcontracts to “other than small business” concerns + subcontracts to Small Business concerns = 100%

³ SDVOSB is a subcategory of VOSB. Any dollar amount applied to SDVOSB also applies to VOSB.

⁴ In this document, the term WOSB includes Economically Disadvantaged WOSB (EDWOSB) concerns.

1.1 Rationale if establishing a goal lower than 3% for VOSB:

--

1.2 Rationale if establishing a goal lower than 3% for SDVOSB:

--

1.3 Rationale if establishing a goal lower than 3% for HUBZone:

--

1.4 Rationale if establishing a goal lower than 5% for SDB:

--

1.5 Rationale if establishing a goal lower than 5% for WOSB:

--

1.6 Rationale if establishing a goal lower than the current DOT subcontracting goal:

--

2. The following principal types of supplies and/or services are planned to be subcontracted under this contract. [Add additional rows if more space is needed.]

Type of Supply/Service to be Subcontracted	Company/Firm Name	Subcontracted Amount	Subcontractor Size Standard (Other Than SB, SB, VOSB, SDVOSB, HUBZone, SDB, WOSB) ⁵

⁵ List all applicable size standards for each proposed subcontractor.

3. The following methods were used to develop the subcontract percentage goals:

--

4. The following methods were used to identify potential subcontract sources for solicitation purposes. (i.e. source lists used and organizations contacted to identify potential SB concerns, such as the System for Award Management (www.SAM.gov), Dynamic Small Business Search (www.DSBS.sba.gov), trade associations, industry conferences/fairs, etc.)

--

5. [Select appropriate option.] Indirect costs [were/were not] included in establishing the subcontracting goals specified in the table above.

6. If indirect costs were included, the following method was used to determine the proportionate share of indirect costs to be incurred with SB, VOSB, SDVOSB, HUBZone, SDB and WOSB subcontractors:

--

7. The following individual will administer the subcontracting program:

Name:	
Title:	
Address:	
Telephone:	
E-mail:	

This individual's specific duties, as they relate to the subcontracting program, are as follows:

--

8. The following efforts will be taken to ensure that SB, SDB, VOSB, SDVOSB, HUBZone, and WOSB subcontractors will have an equitable opportunity to compete for subcontracts:

--

☐ [initial] It is agreed that FAR Clause 52.219-8, Utilization of Small Business Concerns, will be included in all subcontracts, which offer further subcontracting opportunities. It is further agreed that all subcontractors (except small business concerns) at all tiers below the prime contractor who receive subcontracts in excess of \$700,000 (\$1.5M for construction of any public facility with further subcontracting possibilities) will be required to adopt and comply with a subcontracting plan in accordance with FAR Clause 52.219-9.

9. The following types of records will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan (i.e., establishment of source lists, guides and other data that identify SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns; a description of the offeror's efforts to locate SB, VOSB, SDVOSB, HUBZone, SDB and WOSB concerns and to award subcontracts to them, etc.) and shall be maintained through completion of the contract:

10. In accordance with FAR Subpart 19.704(a)(10) through (15), the Contractor further agrees to:

[Initial each line]

- ☐ Cooperate in any studies or surveys as may be required;
- ☐ Submit periodic reports as may be required so that the Government can determine the extent of compliance by the Contractor with the subcontracting plan;
- ☐ After November 30, 2017, include subcontracting data for each order when reporting subcontracting achievements for indefinite-delivery, indefinite-quantity contracts intended for use by multiple agencies;
- ☐ Submit the Individual Subcontract Report (ISR), and the Summary Subcontract Report (SSR) using the Electronic Subcontracting Reporting System (eSRS) at <http://www.esrs.gov/> within the timeframes identified at FAR Subpart 19.704(a)(10)(iv);
- ☐ Ensure that other than small business subcontractors with subcontracting plans agree to submit eSRS documents online as required;
- ☐ Provide its prime contract number and its unique entity identifier, and the e-mail address of the offeror's official responsible for acknowledging receipt of or rejecting the ISRs to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their ISRs;
- ☐ Require that each subcontractor with a subcontracting plan provide the prime contract number, its own unique entity identifier, and the e-mail address of the subcontractor's official responsible for acknowledging receipt of or rejecting the ISRs, to its subcontractors with subcontracting plans;
- ☐ Make a good faith effort to acquire articles, equipment, supplies, services, or

materials, or obtain the performance of construction work from the small business concerns that the offeror used in preparing the bid or proposal, in the same or greater scope, amount, and quality used in preparing and submitting the bid or proposal;

☐ Provide the contracting officer with a written explanation if the contractor fails to acquire articles, equipment, supplies, services or materials or obtain the performance of construction work as described in FAR 19.704(a)(12) of this section. This written explanation will be submitted to the contracting officer within 30 days of contract completion;

☐ Will not prohibit a subcontractor from discussing with the contracting officer any material matter pertaining to payment to or utilization of a subcontractor; and

☐ Pay its small business subcontractors on time and in accordance with the terms and conditions of the subcontract, and notify the contracting officer if the offeror pays a reduced or an untimely payment to a small business subcontractor (see FAR 52.242-5).

Submitted by:

POC Name:	
Title:	
Email Address:	
Company Name:	
DUNS/CAGE:	
Mailing Address:	

Signature