

4:14:31 PM P:\Project\Wise\Wise\Jacobs.com\DEN001\Documents\663395 - FHWA-TO 27 REDS MEADOW PEL Work in Progress\Reds Meadow Road WIP\Roadway\CADD_Sheets\A-Gen_Sht\A01.dwg 8/31/2022



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

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

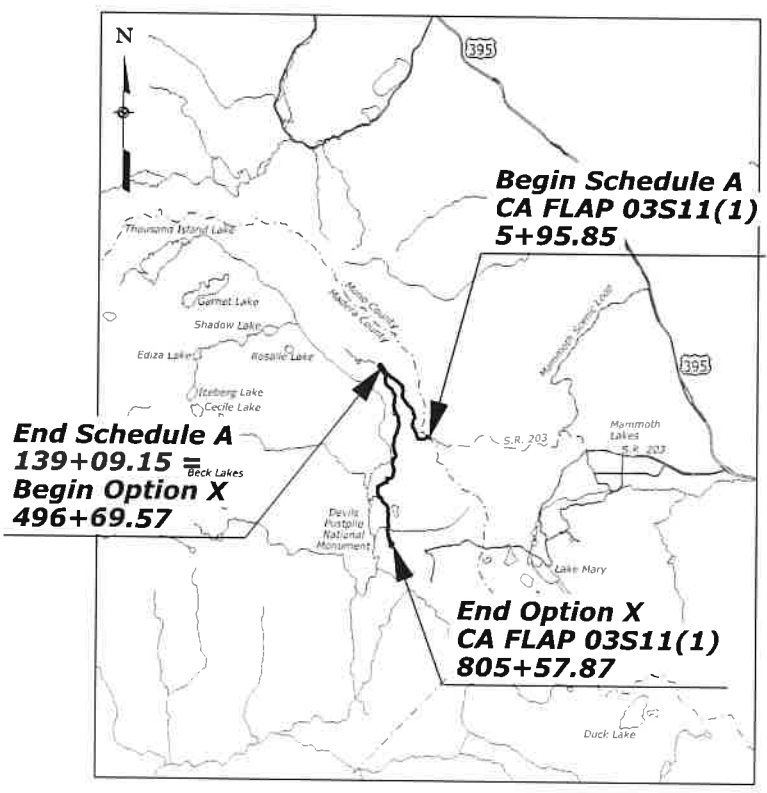
PLANS FOR PROPOSED CA FLAP 03S11(1) REDS MEADOW ROAD INYO NATIONAL FOREST MADERA COUNTY SCHEDULE A LENGTH 2.90 miles OPTION X LENGTH 5.85 miles

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
DHV ----- 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"



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A7-A8	SITE MAP
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C22	REDS MEADOW ROAD PLAN AND PROFILE
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PLANS PREPARED BY

Jacobs
FOR



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

APPROVED:
CURTIS R SCOTT Digitally signed by CURTIS R SCOTT
Date: 2022.09.01 07:58:43 -06'00' DATE: _____
CHIEF OF ENGINEERING
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

APPROVED:
Per Memo Dated 08/11/2022 DATE: _____
HAYES HATSLIP, PUBLIC WORKS DIRECTOR
TOWN OF MAMMOTH LAKES

APPROVED:
Per Memo Dated 08/22/2022 DATE: _____
FRED WONG, DISTRICT RANGER
INYO NATIONAL FOREST

ABBREVIATIONS

$\bar{C}$	centerline
Δ	curve delta
$\emptyset$	diameter
A abut.	abutment
ADT	average daily traffic
aggr.	aggregate
AH	ahead
alt.	alternate
appr.	approach
asph.	asphalt
B b.f.	both faces
beg.	beginning, begin
BK	back
BM	bench mark
BP	balance point
br.	bridge
brg.	bearing
C CBC	concrete box culvert
c-c	center to center
clr.	clear
CMP	corrugated metal pipe
Co.	county
col.	column
conc.	concrete
constr.	construction
constr. jt.	construction joint
cont.	continuous
corr.	corrugated
cr.	creek
CS	point of curve to spiral
ctrs.	centers
CTSM	contingent sum
culv.	culvert
D decr.	decrement
DHV	design hour volume
DI	drop inlet
dia. or D	diameter
diag.	diagonal
diaph.	diaphragm
dist.	distance
Dist.	district
DLC	donation land claim
dwg(s).	drawing(s)
E E	east
e	superelevation rate
El. 94.066	elevation with number
elev.	elevation
emb.	embankment
enrg(s).	Engineer(s)
EOP	edge of pavement
EQ or eq.	equation
ER	edge of road
et al	and others
et ux	and wife
EW	edge of water
exc.	excavation
exp. jt.	expansion joint
ext.	exterior
F f.f.	fill face
Fed.	federal
FES	flared end section
fin.	finish
ftg.	footing
G ga.	gage (gauge)
galv.	galvanized
gdr.	girder
H hdwl.	headwall
HES	homestead entry survey
hex.	hexagon
horiz.	horizontal
HW	high water
hwy.	highway
I ID	inside diameter
incl.	inclusive, including
incr.	increment
int.	interior
J jt.	joint

L L	length of curve
lam.	lamination
lat.	latitude
long.	longitudinal
LPSM	lump sum
Lt. or LT	left
LW	low water
M mag.	magnetic
maint.	maintenance
matl.	material
max.	maximum
min.	minimum
mon.	monument
mtn(s).	mountain(s)
N N	north
NC	normal crown
neg.	negative
no. or #	number
O o.c.	on centers
o.f.	other face
OD	outside diameter
P PC	point of curve
PCC	point of compound curve
perf.	perforate
PI	point of intersection
pl.	plate
POC	point on curve
POS	point on spiral
POT	point on tangent
proj.	project
psi	pounds per square inch
PT	point of tangent
pvm.	pavement
Q quant., Qty	quantities
R R	radius
R.	range
R/W	right-of-way
rd.	road
rdwy.	roadway
reconst.	reconstruction
reinf.	reinforcement
reqd.	required
res.	reservoir
Res.	Reservation
ret. wall	retaining wall
RH	reference hub
Rt. or RT	right
rte.	route
S S	south
SADT	seasonal average daily traffic
SC	point of spiral to curve
sec.	section
shldr.	shoulder
spa.	spacing, Spaces or Spaced
spec.	specification
st.	street
ST	point of spiral to tangent
sta.	station
std.	standard
stiff.	stiffener
str.	straight
struc.	structural
sym.	symmetrical
T T	tangent length
T.	township
tan.	tangent
TBM	temporary bench mark
TCE	temporary construction easement
transv.	transverse
TS	point of tangent to spiral
typ.	typical
V V	design speed
vert.	vertical
vph	vehicles per hour
VPI	vertical point of intersection
W W	west

DRAINAGE SYMBOLS

Ditch (Existing, Proposed)

Flow Arrow

Drainage or Small Creek

Lake, Pond or Reservoir

Large Creek

Wetland

River

Spring

Bridge (Existing, Proposed)

Box Culvert (Existing, Proposed)

Pipe Culvert (Existing, Proposed)

With End Sections (Existing, Proposed)

With Headwalls (Existing, Proposed)

With Drop Inlet (Existing, Proposed)

Underdrain (Existing, Proposed)

Riprap Apron (Proposed)

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

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A2

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D5-D8	PULLOUT AREAS
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY

**CONVENTIONAL PLAN
SYMBOLS AND ABBREVIATIONS**

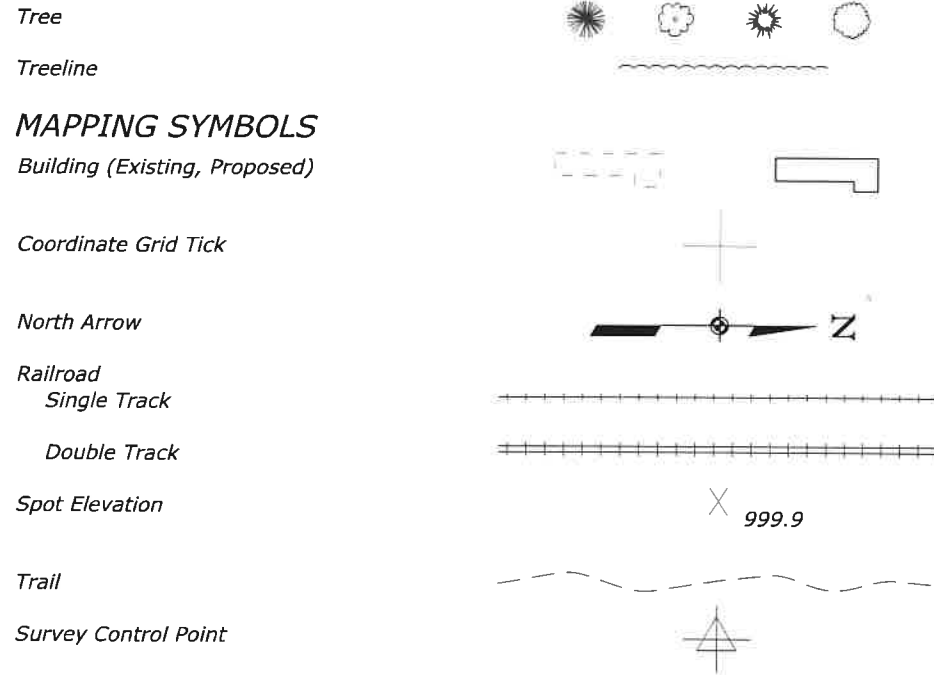
Sheet 1 of 2

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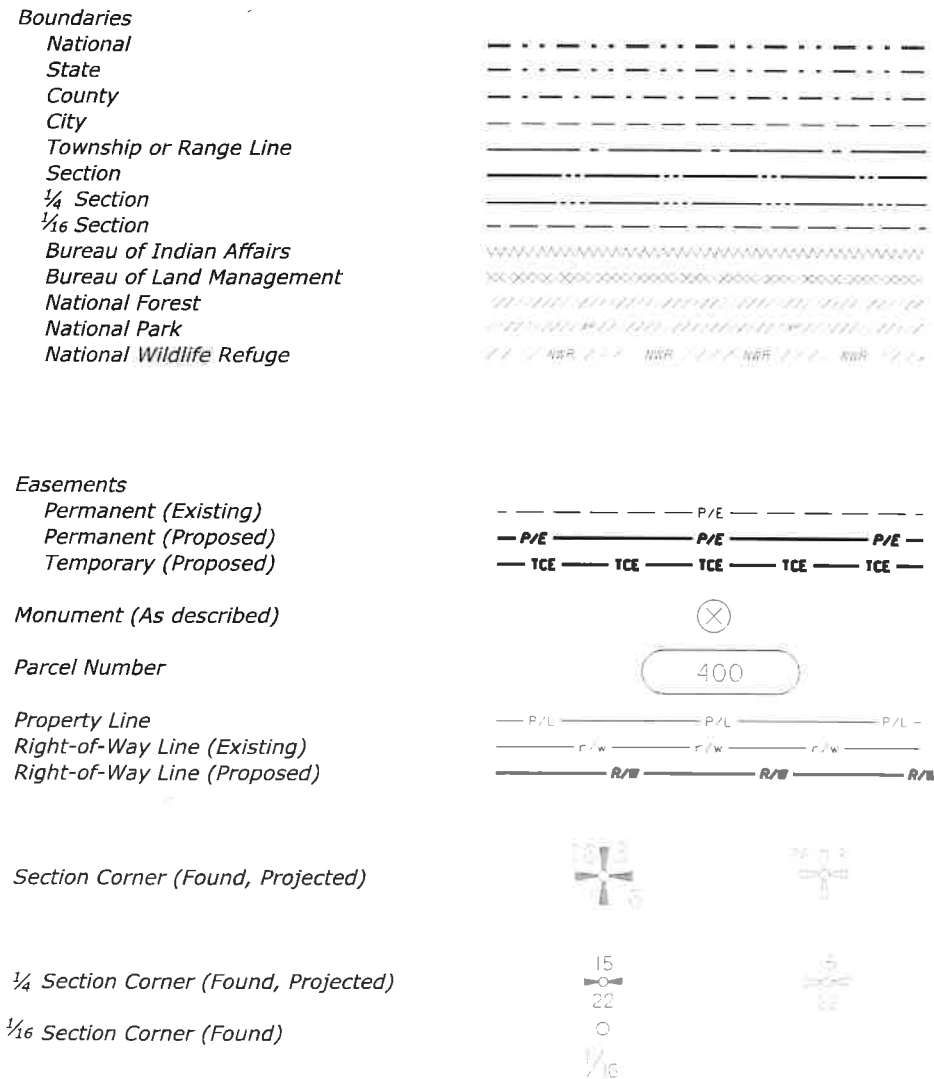
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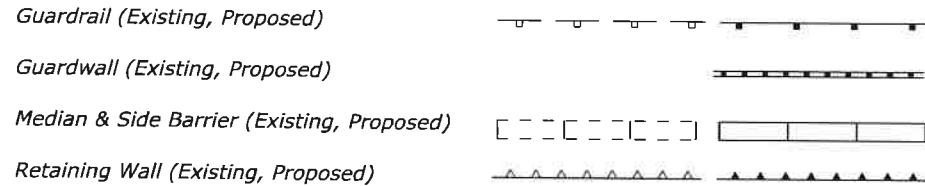
LANDSCAPING & VEGETATION SYMBOLS



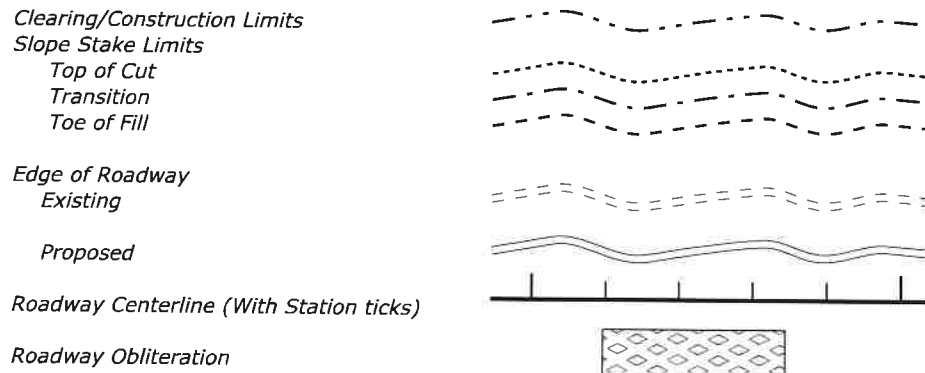
RIGHT-OF-WAY SYMBOLS



GUARDRAIL, BARRIER & WALL SYMBOLS



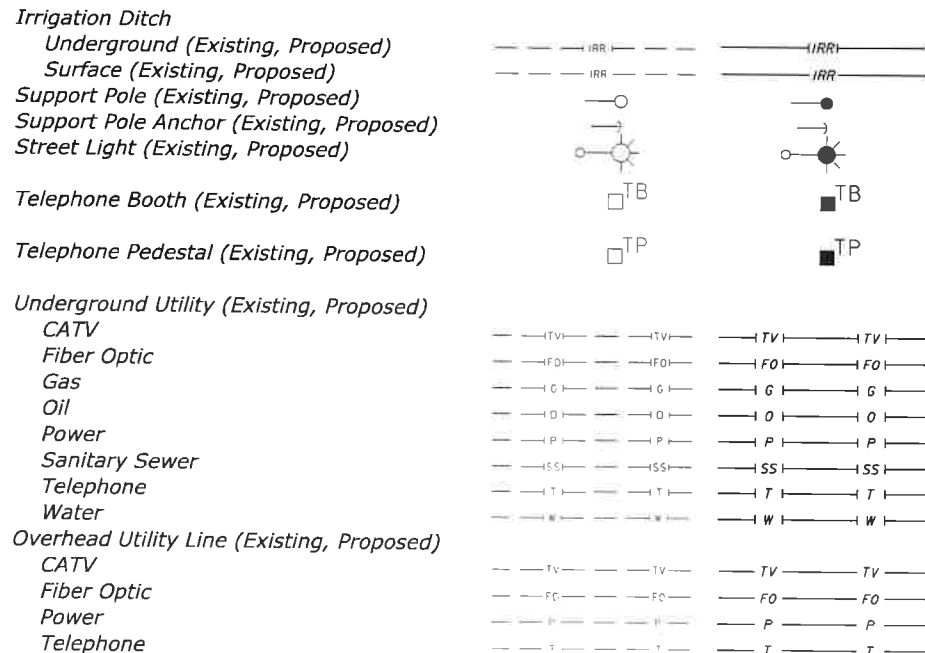
ROADWAY SYMBOLS



SIGN SYMBOLS

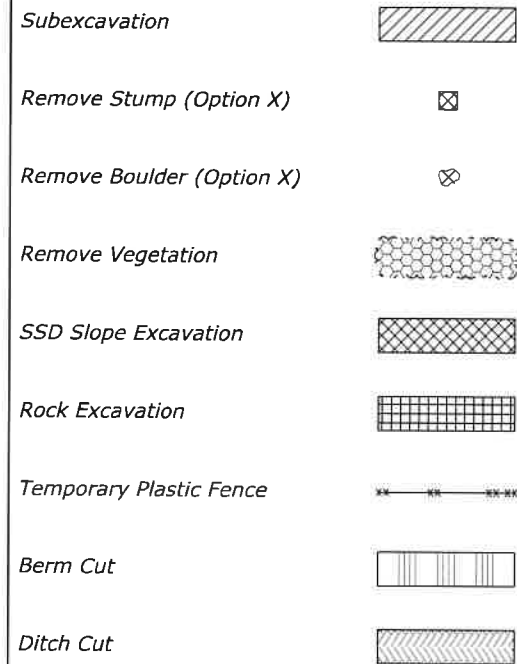


UTILITY SYMBOLS



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)	A3

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

U.S. CUSTOMARY

CONVENTIONAL PLAN
SYMBOLS AND ABBREVIATIONS

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3/23/2021

PROJECT : Reds Meadow Road
DATE OF FIELD WORK : August 23 to October 21, 2016
DATE OF FINAL ADJUSTMENT : August 31, 2016

PROJECT UNITS : US SURVEY FOOT
COORDINATE SYSTEM : NAD83 California State Plane Zone III
EPOCH DATE : 2010.00
VERTICAL DATUM : NAVD88
MODELED :

GPK FILE DATED:

Note: For all SURVEY AND STAKING REQUIREMENTS, refer to the FP14, Section 152.02

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A4

POINT NUMBER	STATE PLANE COORDINATES			GEO COORDINATES			MAPPING ANGLE	COMBINED FACTOR	DESCRIPTION
	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT			
1	2063601.392	6979456.290	9164.24	37°39'12.23613"	-119°03'24.38471"	9083.633	0°53'01"	0.999496380	14961-01/ 1/2"RBR
2	2063862.714	6979046.618	9177.61	37°39'12.23613"	-119°03'29.42852"	9097.020	0°52'58"	0.999495720	14961-02/ 1/2"RBR
3	2065131.515	6977029.263	8941.42	37°39'14.88195"	-119°03'54.27064"	8860.946	0°52'43"	0.999506900	14961-03/ 1/2"RBR
4	2066663.938	6977310.530	8802.28	37°39'42.83828"	-119°03'50.48076"	8721.823	0°52'45"	0.999513430	14961-04/ 1/2"RBR
5	2069440.337	6975565.695	8573.77	37°40'10.54945"	-119°04'11.65091"	8493.403	0°52'32"	0.999524150	14961-05/ 1/2"RBR
6	2070843.166	6975514.325	8490.95	37°40'24.42534"	-119°04'12.02318"	8410.589	0°52'32"	0.999528010	14961-06/ 1/2"RBR
7	2071697.792	6974386.813	8384.06	37°40'33.04412"	-119°04'25.88447"	8303.725	0°52'23"	0.999533060	14961-07/ 1/2"RBR
8	2072532.818	6973345.471	8320.40	37°40'41.45574"	-119°04'36.67857"	8240.177	0°52'16"	0.999536050	14961-08/ 1/2"RBR
9	2073097.621	6973024.811	8348.83	37°40'47.08747"	-119°04'42.56028"	8268.621	0°52'13"	0.999534650	14961-09/ 1/2"RBR
10	2073439.917	6972789.109	8355.40	37°40'50.50672"	-119°04'45.42741"	8275.209	0°52'11"	0.999534320	14961-10/ 1/2"RBR
11	2056046.283	6972419.612	7704.46	37°37'58.61101"	-119°04'53.30307"	7623.928	0°52'06"	0.999566800	14961-11/ 1/2"RBR
12	2055634.036	6972459.157	7678.31	37°37'54.52966"	-119°04'52.88918"	7597.768	0°52'07"	0.999568090	14961-12/ 1/2"RBR
13	2054827.729	6973148.218	7708.73	37°37'46.45523"	-119°04'44.47607"	7628.161	0°52'12"	0.999566720	14961-13/ 1/2"RBR
101	2063855.313	6979138.148	9179.94	37°39'14.79484"	-119°03'28.29183"	9099.343	0°52'59"	0.999495610	14961-101/ FD USGS BM 9175 20 JID
102	2063616.346	6978802.684	9153.17	37°39'12.48354"	-119°03'32.50879"	9072.616	0°52'56"	0.999496900	14961-102/ SPINDLE
103	2063499.854	6978519.683	9128.42	37°39'11.37499"	-119°03'36.04991"	9047.872	0°52'54"	0.999498100	14961-103/ MAG NAIL
104	2063521.519	6977896.680	9084.70	37°39'11.68386"	-119°03'36.04991"	9004.172	0°52'49"	0.999500180	14961-104/ SPINDLE
105	2063667.369	6977718.767	9067.96	37°39'13.15273"	-119°03'43.79216"	8987.443	0°52'48"	0.999500970	14961-105/ SPINDLE
106	2064270.804	6977521.769	9019.59	37°39'19.14810"	-119°03'48.31077"	8939.087	0°52'46"	0.999503230	14961-106/ 1/2"RBR
107	2064896.778	6977273.222	8963.98	37°39'25.37409"	-119°03'51.28186"	8883.495	0°52'44"	0.999505840	14961-107/ 1/2"RBR
108	2065404.743	6977045.102	8920.00	37°39'30.43034"	-119°03'54.02159"	8839.543	0°52'43"	0.999507900	14961-108/ 1/2"RBR
109	2065734.873	6977060.003	8889.33	37°39'33.69170"	-119°03'53.77334"	8808.872	0°52'43"	0.999509340	14961-109/ 1/2"RBR
110	2066157.313	6977234.138	8848.03	37°39'37.84146"	-119°03'51.52739"	8767.567	0°52'44"	0.999511280	14961-110/ SPINDLE
111	2066340.458	6977335.314	8832.87	37°39'39.63665"	-119°03'50.23430"	8752.413	0°52'45"	0.999511990	14961-111/ 1/2"RBR
112	2066512.834	6977349.082	8817.01	37°39'41.33864"	-119°03'50.03018"	8736.553	0°52'45"	0.999512740	14961-112/ 1/2"RBR
113	2066872.968	6977192.299	8784.08	37°39'44.92265"	-119°03'51.91114"	8703.630	0°52'44"	0.999514280	14961-113/ 1/2"RBR
114	2067153.186	6977129.104	8756.83	37°39'47.70242"	-119°03'52.64355"	8676.391	0°52'44"	0.999515560	14961-114/ 1/2"RBR
115	2067329.093	6977020.565	8743.84	37°39'49.45787"	-119°03'53.95976"	8663.405	0°52'43"	0.999516170	14961-115/ 1/2"RBR
116	2067668.980	6976939.150	8720.67	37°39'52.83027"	-119°03'54.90740"	8640.234	0°52'42"	0.999517250	14961-116/ 1/2"RBR
117	2067924.736	6976670.207	8686.31	37°39'55.39939"	-119°03'58.20322"	8605.887	0°52'40"	0.999518880	14961-117/ 1/2"RBR
118	2068060.070	6976402.118	8663.58	37°39'56.77787"	-119°04'01.51141"	8583.174	0°52'38"	0.999519950	14961-118/ 1/2"RBR
119	2068307.497	6976330.214	8642.56	37°39'59.23478"	-119°04'02.35851"	8562.154	0°52'38"	0.999520940	14961-119/ 1/2"RBR
120	2068392.791	6976158.084	8624.95	37°40'00.10402"	-119°04'04.48292"	8544.552	0°52'36"	0.999521770	14961-120/ SPINDLE
121	2068521.795	6976122.956	8610.76	37°40'01.38464"	-119°04'04.89522"	8830.365	0°52'36"	0.999522440	14961-121/ 1/2"RBR
122	2068758.860	6975890.171	8584.41	37°40'03.76344"	-119°04'07.74512"	8504.030	0°52'34"	0.999523680	14961-122/ 1/2"RBR
123	2069015.582	6975752.402	8584.59	37°40'06.32217"	-119°04'09.40965"	8504.213	0°52'33"	0.999523660	14961-123/ 1/2"RBR
124	2069625.825	6975641.675	8567.39	37°40'12.37167"	-119°04'10.67070"	8487.024	0°52'33"	0.999524440	14961-124/ 1/2"RBR
125	2069839.967	6975704.618	8559.09	37°40'14.47913"	-119°04'09.84718"	8478.723	0°52'33"	0.999524820	14961-125/ SPINDLE
126	2069966.236	6975648.271	8550.65	37°40'15.73592"	-119°04'10.52396"	8470.284	0°52'33"	0.999525220	14961-126/ 1/2"RBR



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

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PROJECT : Reds Meadow Road
DATE OF FIELD WORK : August 23 to October 21, 2016
DATE OF FINAL ADJUSTMENT : August 31, 2016

PROJECT UNITS : US SURVEY FOOT
COORDINATE SYSTEM : NAD83 California State Plane Zone III
EPOCH DATE : 2010.00
VERTICAL DATUM : NAVD88
MODELED :

GPK FILE DATED:

Note: For all SURVEY AND STAKING REQUIREMENTS, refer to the FP14, Section 152.02

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A5

POINT NUMBER	STATE PLANE COORDINATES			GEO COORDINATES			MAPPING ANGLE	COMBINED FACTOR	DESCRIPTION
	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT			
127	2070225.480	6975716.951	8537.22	37°40'18.28838"	-119°07'09.62049"	8456.852	0°52'33"	0.999525840	14961-127/ 1/2"RBR
128	2070481.053	6975584.076	8522.79	37°40'20.83501"	-119°04'11.22449"	8442.424	0°52'32"	0.999526510	14961-128/ 1/2"RBR
129	2070750.472	6975606.326	8502.44	37°40'23.49508"	-119°04'10.89655"	8422.074	0°52'32"	0.999527470	14961-129/ 1/2"RBR
130	2070934.105	6975339.795	8478.50	37°40'25.35070"	-119°04'14.17659"	8398.146	0°52'30"	0.999528600	14961-130/ 1/2"RBR
131	2071051.258	6975200.526	8465.44	37°40'26.52989"	-119°04'15.88649"	8385.091	0°52'29"	0.999529220	14961-131/ 1/2"RBR
132	2071235.242	6975055.202	8446.05	37°40'28.37065"	-119°04'17.65902"	8365.711	0°52'28"	0.999530130	14961-132/ SPINDLE
133	2071342.964	6974852.001	8429.48	37°40'29.46623"	-119°04'20.16591"	8349.151	0°52'27"	0.999539010	14961-133/ 1/2"RBR
134	2071479.044	6974766.793	8416.31	37°40'30.82434"	-119°04'21.19987"	8335.961	0°52'26"	0.999531540	14961-134/ SPINDLE
135	2071811.908	6974279.762	8376.91	37°40'34.18838"	-119°04'27.19433"	8296.588	0°52'22"	0.999533400	14961-135/ SPINDLE
136	2071869.672	6974079.079	8362.09	37°40'34.78965"	-119°04'29.67945"	8281.776	0°52'21"	0.999534100	14961-136/ 1/2"RBR
137	2072169.205	6973772.235	8342.65	37°40'37.79696"	-119°04'33.43924"	8262.399	0°52'19"	0.999535010	14961-137/ 1/2"RBR
138	2072424.916	6973533.750	8323.01	37°40'40.36074"	-119°04'36.35713"	8242.770	0°52'17"	0.999535930	14961-138/ 1/2"RBR
139	2072733.313	6973246.046	8327.12	37°40'43.45274"	-119°04'39.87734"	8246.896	0°52'15"	0.999535710	14961-139/ 1/2"RBR
140	2072876.006	6973269.072	8340.79	37°40'44.85992"	-119°04'39.56395"	8260.574	0°52'15"	0.999535050	14961-140/ SPINDLE
200	2056228.288	6972317.217	7711.50	37°38'00.42564"	-119°04'54.54162"	7630.972	0°52'06"	0.999566450	14961-200/ MAG NAIL
201	2055523.116	6972589.197	7669.63	37°37'53.41362"	-119°04'51.29365"	7589.078	0°52'08"	0.999568520	14961-201/ SPINDLE
202	2055596.113	6972713.657	7672.86	37°37'54.11660"	-119°04'49.73280"	7592.314	0°52'09"	0.999568360	14961-202/ MAG NAIL
203	2055571.869	6972822.002	7673.84	37°37'53.86068"	-119°04'48.39059"	7593.285	0°52'09"	0.999568320	14961-203/ SPINDLE
204	2055439.945	6972893.438	7681.84	37°37'52.54577"	-119°04'49.52751"	7601.283	0°52'10"	0.999567950	14961-204/ 1/2"RBR
205	2055227.897	6972923.813	7694.82	37°37'50.44493"	-119°04'47.18993"	7614.258	0°52'10"	0.999567350	14961-205/ 1/2"RBR
206	2055089.104	6973006.580	7697.87	37°37'49.06041"	-119°04'46.18732"	7617.304	0°52'11"	0.999567220	14961-206/ 1/2"RBR
207	2054927.818	6973091.758	7702.58	38°47'45.11714"	-119°04'45.15898"	7622.017	0°52'11"	0.999567010	14961-207/ SPINDLE

PROJECT AVERAGES = 0.9995284610

NOTE:
TO PRECISELY CHECK DISTANCES BETWEEN POINTS AS MEASURED ON THE GROUND : INVERSE THE STATE PLANE COORDINATES AND DIVIDE THE COMPUTED DISTANCE BY A MEAN COMBINED FACTOR OF THE TWO POINTS.

TO COMPUTE GEODETIC AZIMUTHS USE THE FOLLOWING FORMULA :
GEODETIC AZIMUTH = GRID AZIMUTH + MAPPING ANGLE



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

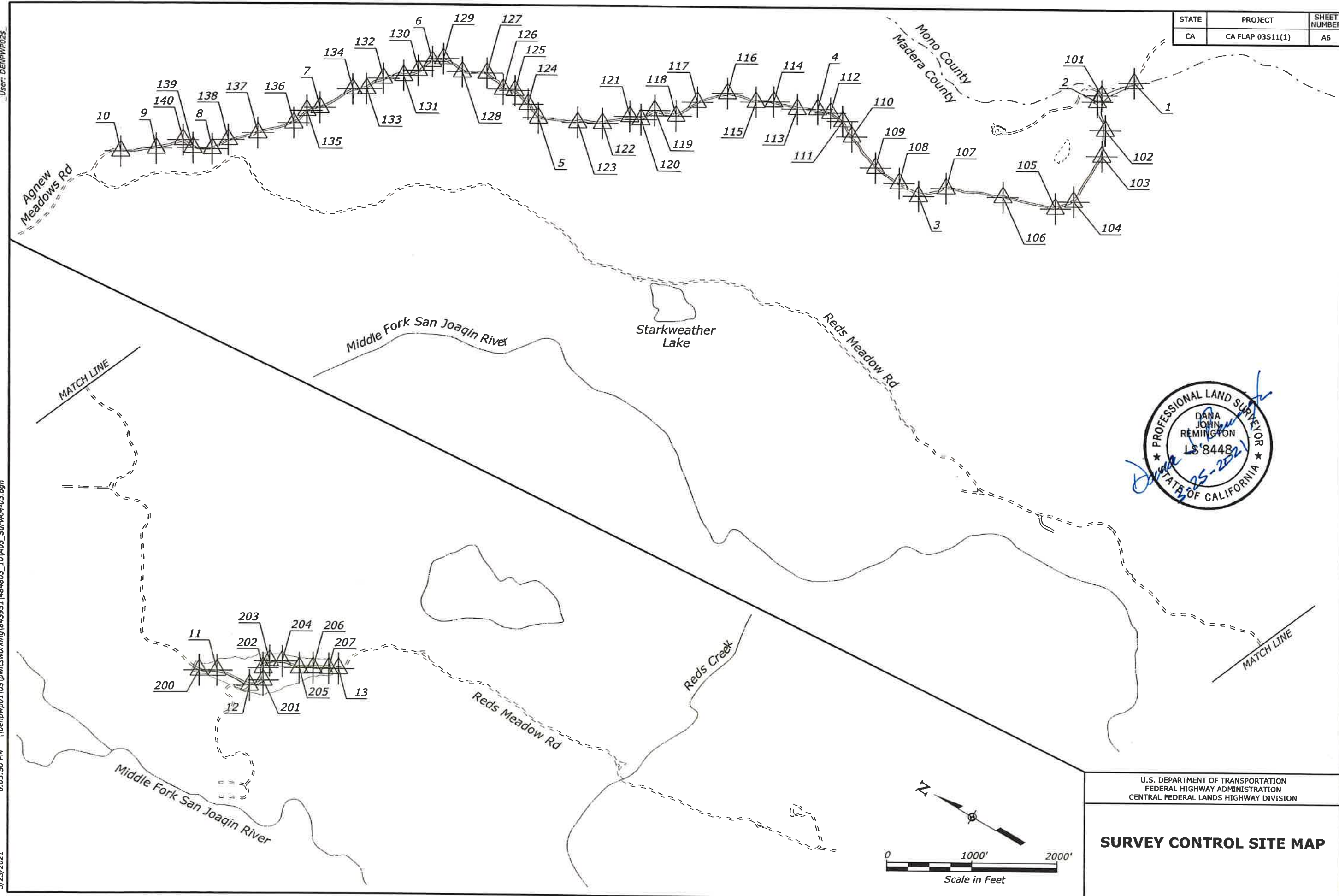
SURVEY CONTROL
Sheet 2 of 2

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3/23/2021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A6



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

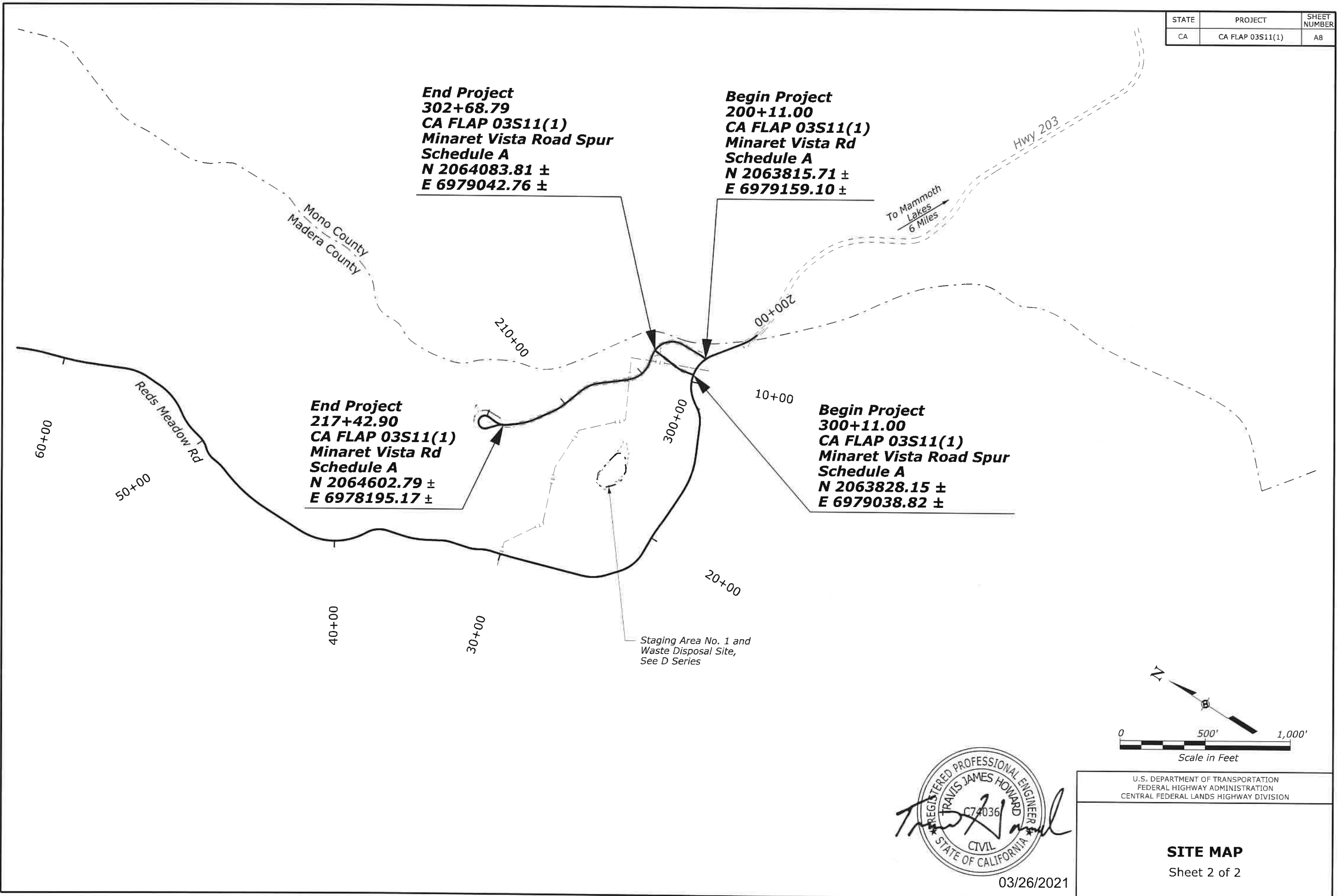
SURVEY CONTROL SITE MAP

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3/26/2021

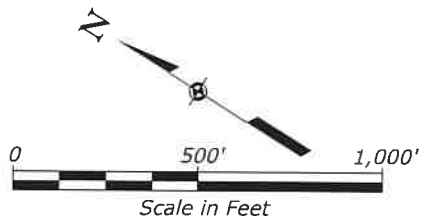
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A8



Staging Area No. 1 and
Waste Disposal Site,
See D Series



03/26/2021



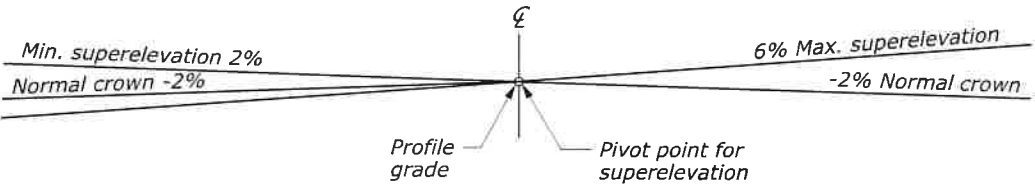
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SITE MAP
Sheet 2 of 2

NOTES:

- 1. The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
- 2. See the superelevation diagram and cross sections for cross slope and cut and fill slope ratios.
- 3. See G Series for Soil Nail Wall details and locations.
- 4. Refer to Reinforced Soil Slope on G Series for alternative end condition on left side.
- 5. Paved Gutters have slopes of 1V:8H and are not subject to cross slope change with mainline superelevation. Pavement structural section for paved gutters is the same as the mainline pavement. The asphalt and roadway aggregate quantities for the paved gutters are included in the mainline 30101-0000 and 40101-5600 item quantities.
- 6. Round all earth slopes and all rippable rock slopes. For cut heights less than B, reduce the B and F dimensions to the actual cut height.
- 7. Width varies depending on roadway cross slope.
- 8. During excavation activities, large boulders should be expected. Avoid over excavation by removing or destabilizing large boulders found to be crossing the proposed finished cut line.

LENGTH OF PROJECT			
	Location	Station to Station	Roadway (ft)
Schedule A	3R Reds Meadow Rd	5+95.85 to 10+70.00	474
Schedule A	4R Reds Meadow Rd	10+70.00 to 139+09.15	12,839
Schedule A	Minaret Vista Rd	200+11.00 to 217+42.90	1,732
Schedule A	Minaret Vista Spur	300+11.00 to 302+68.79	258
Option X	3R Reds Meadow Rd	496+69.57 to 805+57.87	30,888
TOTALS (ft)			46,195
TOTAL (mi)			8.75



METHOD OF SUPERELEVATION ON CURVES
See plans for locations of curves and superelevations

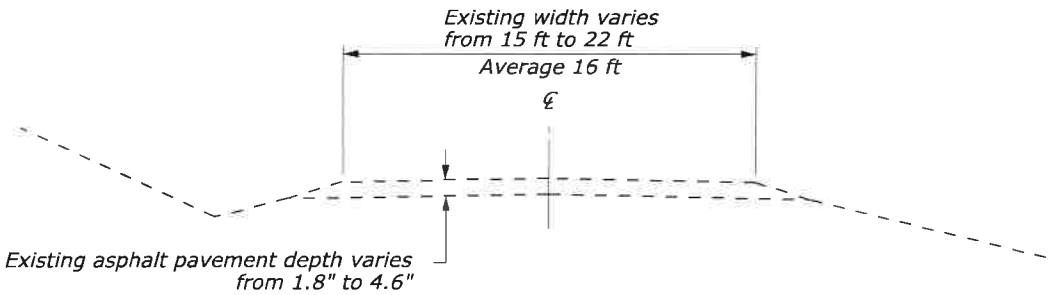


03/26/2021 NO SCALE

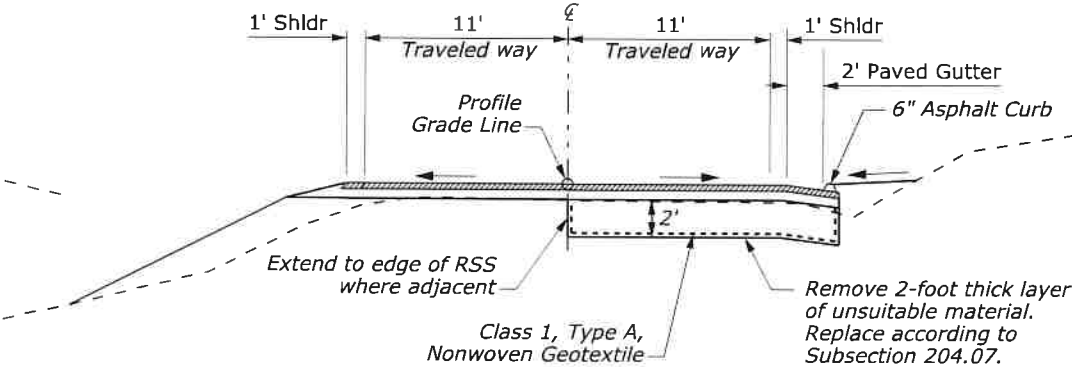
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY
SCHEDULE A
TYPICAL SECTIONS
RECONSTRUCTION

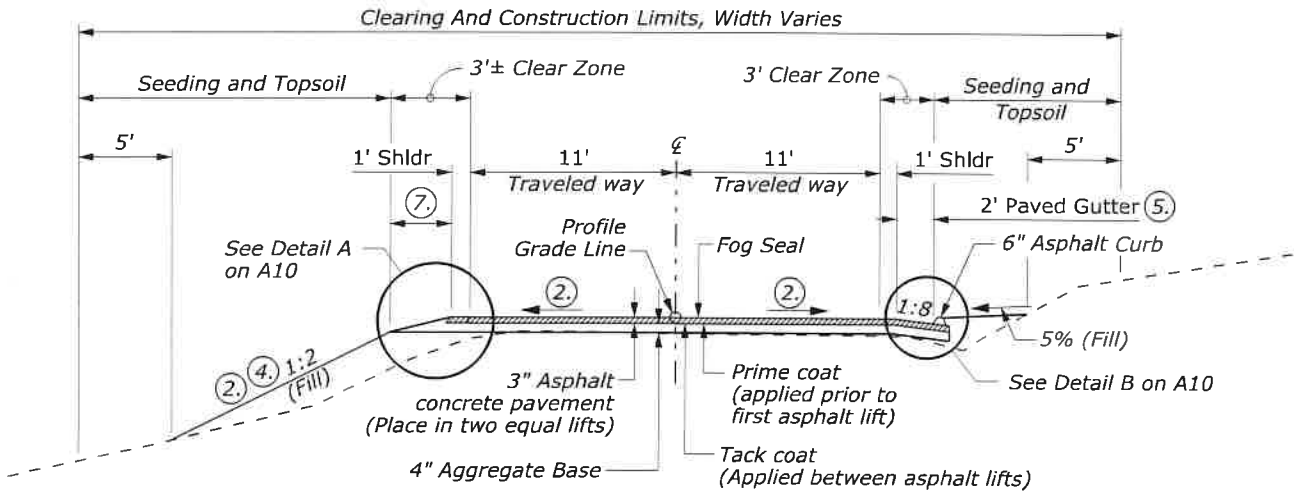
Sheet 1 of 2



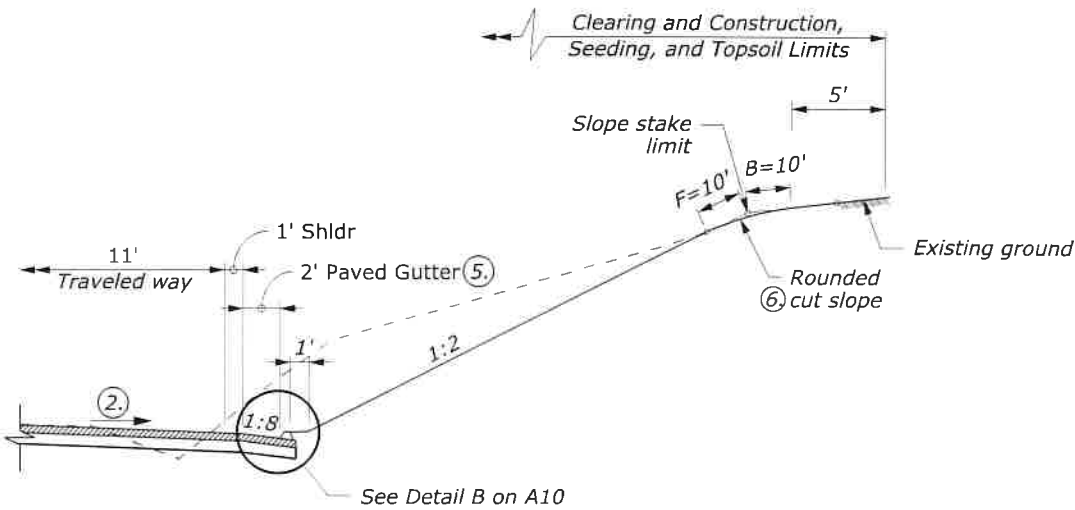
EXISTING TYPICAL SECTION
10+70 to 139+09.15



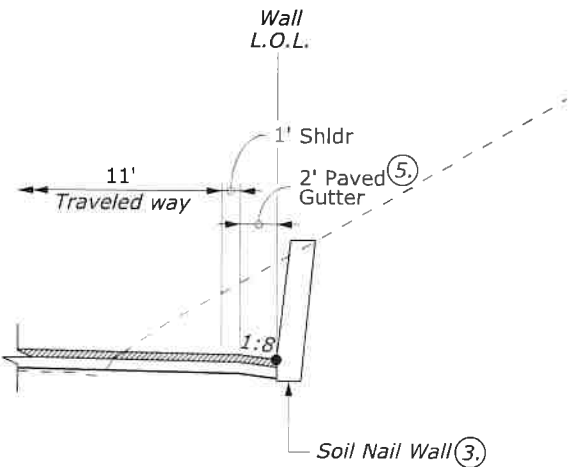
PUMICE DIGOUT DETAIL
55+00 to 61+00
80+00 to 92+00



TYPICAL SECTION
REDS MEADOW
10+70.00 to 139+09.15



TYPICAL CUT DETAIL



SOIL NAIL WALL DETAIL

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3/25/2021

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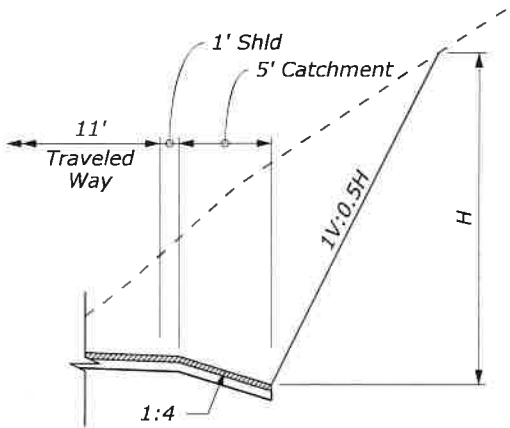
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9/6/2022

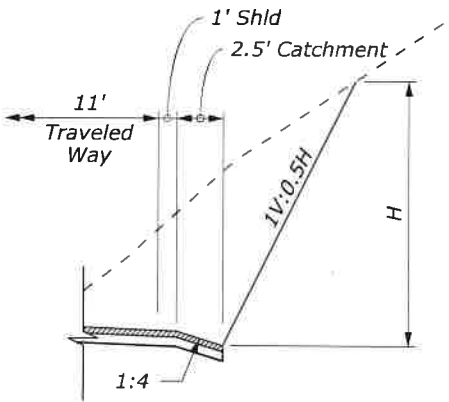
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A10

NOTES:

1. The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. See T Series for guardrail details.
3. See C Series for guardrail locations.
- ④ See C Series for locations of RSS on left side.
- ⑤ Boulder sized clasts of bedrock can be expected. See C series for locations of rock excavation.
- ⑥ See T Series for terminal grading details.
- ⑦ See G Series for Reinforced Soil Slope details.

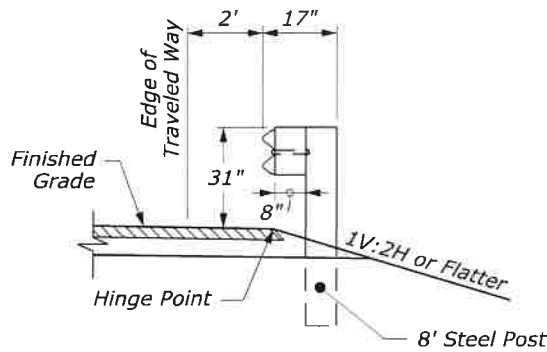


ROCK EXCAVATION DETAIL 1 ⑤
 $10' < H \leq 20'$

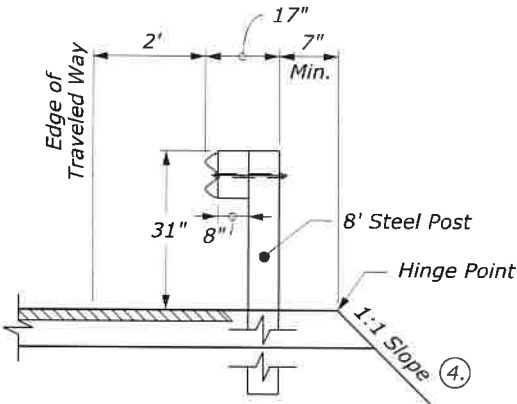


ROCK EXCAVATION DETAIL 2 ⑤
 $H \leq 10'$

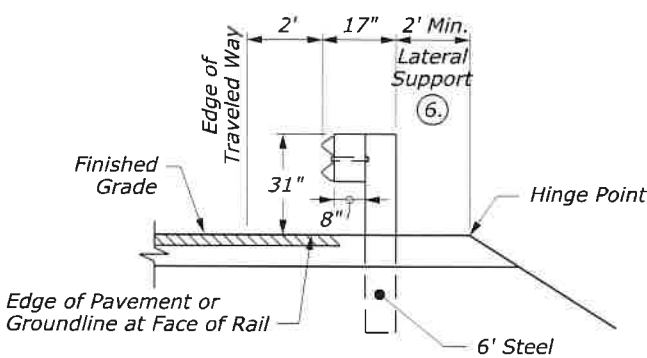
CURVE WIDENING SUMMARY				
Curve No.	Radius at CL	Width	Begin Widening Taper Sta/Off to Edge of Shoulder	End Widening Taper Sta/Off to Edge of Shoulder
C39	106'	2'	95+12, 12.00' Rt.	95+52, 14.00' Rt.
			96+50, 14.00' Rt.	96+90, 12.00' Rt.
C60	81'	2'	136+38, 12.00' Lt.	136+78, 14.00' Lt.
			137+39, 14.00' Lt.	137+79, 12.00' Lt.



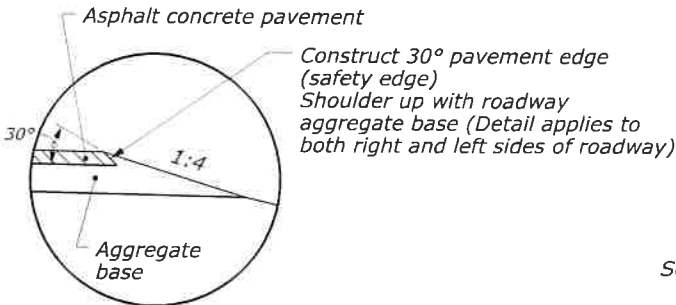
GUARDRAIL DETAIL 1
USE ON 1:2 OR FLATTER SLOPES



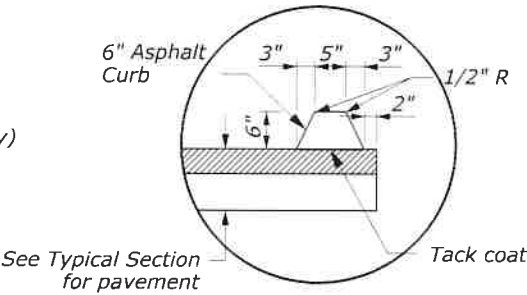
GUARDRAIL DETAIL 2
USE ON RSS ⑦



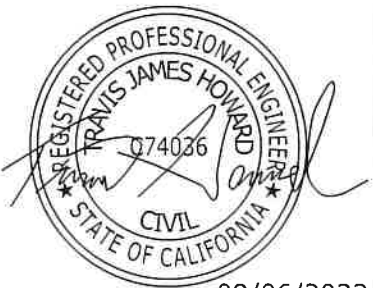
GUARDRAIL DETAIL 3
USE AT TERMINAL SECTIONS



DETAIL A



DETAIL B



09/06/2022

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

U.S. CUSTOMARY
**SCHEDULE A
TYPICAL SECTIONS
RECONSTRUCTION**

Sheet 2 of 2

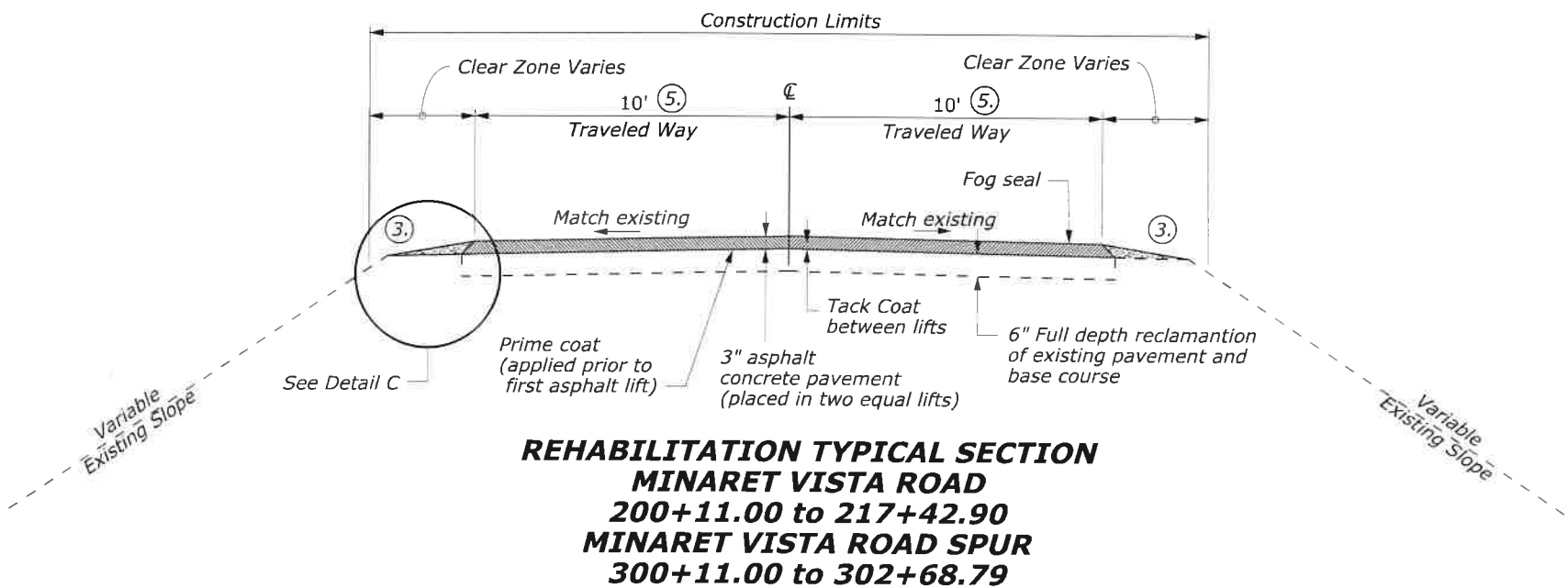
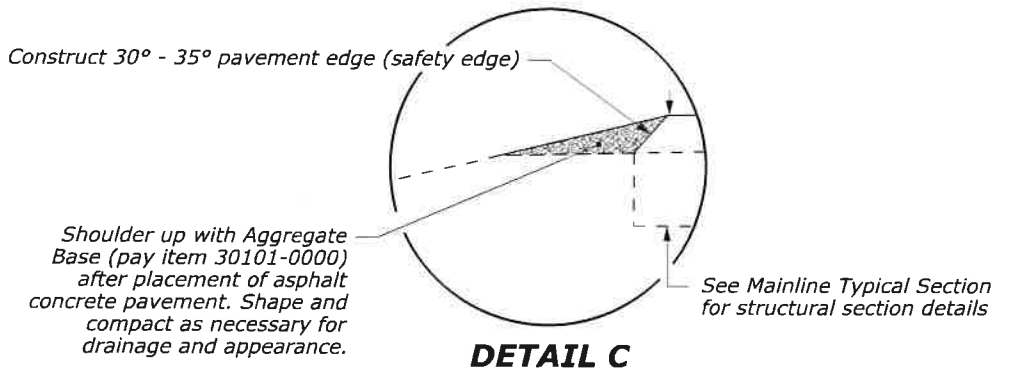
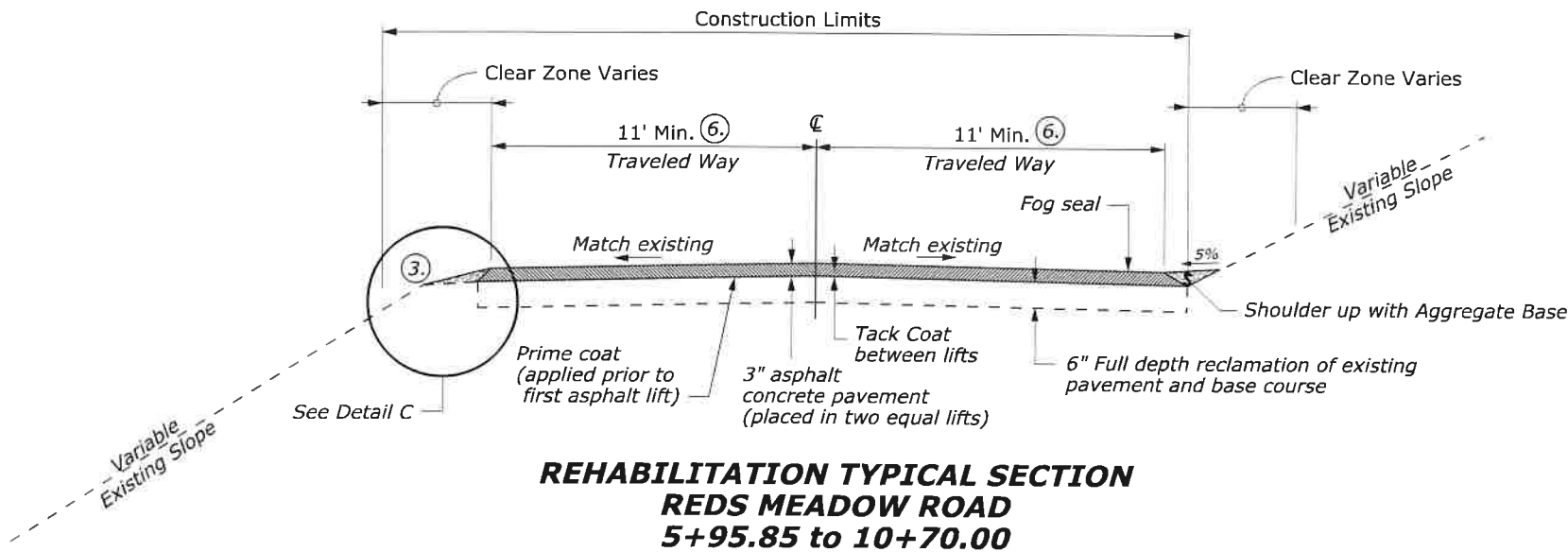
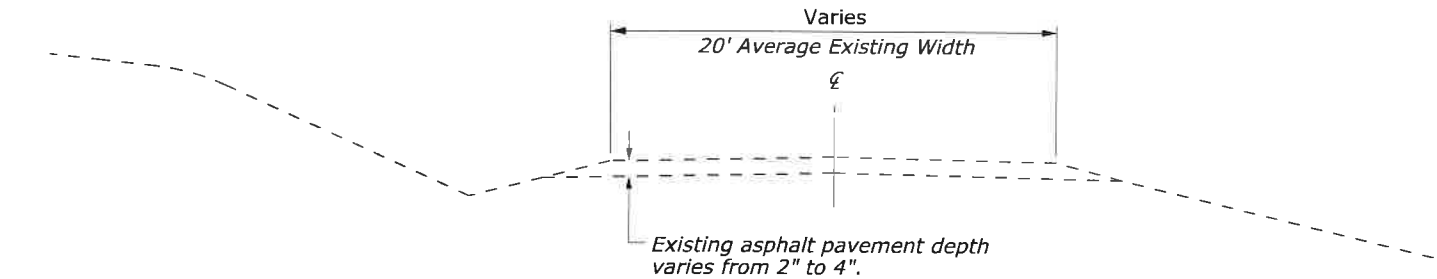
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STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A11

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 on 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 recompacted.
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.
7. Based on visual observations during the pavement investigation, cobbles and boulders may be present within mainline subgrade. A visual survey of the surrounding foreslopes is a good indicator of the subgrade make-up. Remove cobbles larger than the largest allowable gradation per SCR Subsection 301.3. Removal of cobbles is incidental to pay item 30401-5300 Full Depth Reclamation, Method 2, 6-inch depth.

EXISTING TYPICAL SECTION
REDS MEADOW ROAD
5+95.85 to 10+70.00
MINARET VISTA ROAD
200+11.00 to 217+42.90
MINARET VISTA ROAD SPUR
300+11.00 to 302+68.79



09/06/2022

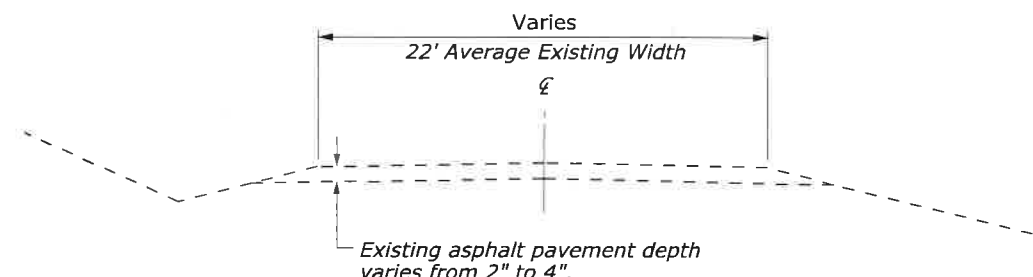
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

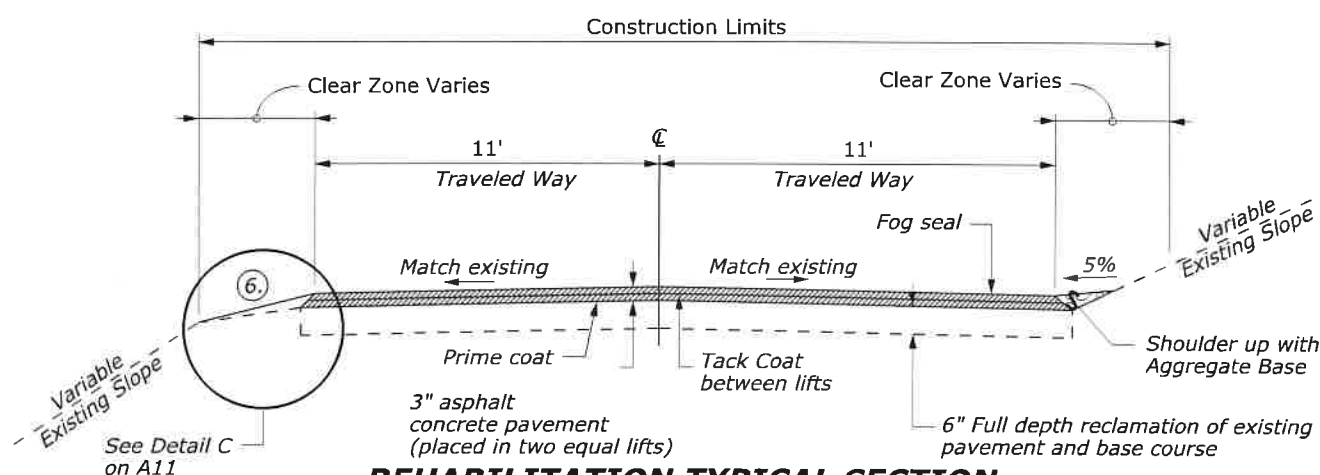
U.S. CUSTOMARY

SCHEDULE A
TYPICAL SECTIONS
REHABILITATION

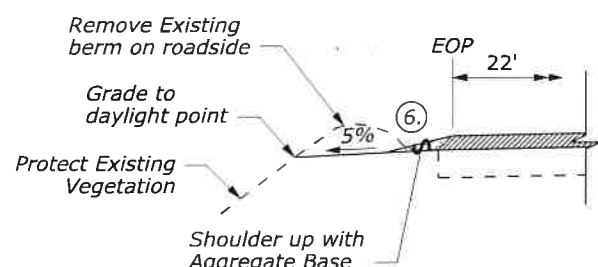
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A12



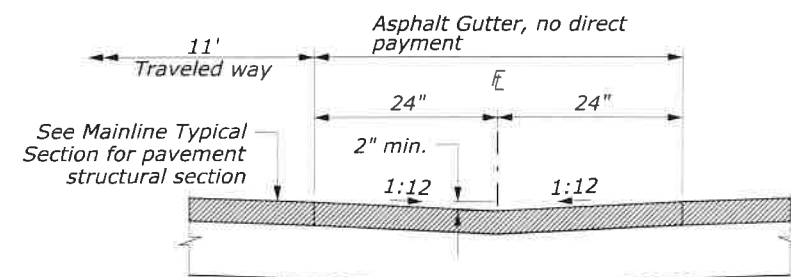
EXISTING TYPICAL SECTION
496+69.57 to 805+57.87



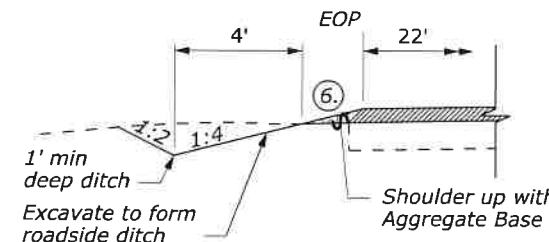
REHABILITATION TYPICAL SECTION
REDS MEADOW ROAD
496+69.57 to 713+10.00
725+30.00 to 805+57.87



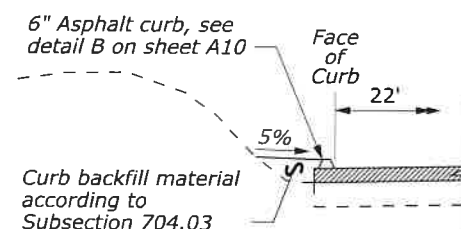
BERM CUT DETAIL ①
625+00 to 626+30, Rt
760+50 to 762+70, Rt
763+00 to 764+50, Rt
779+00 to 780+00, Lt



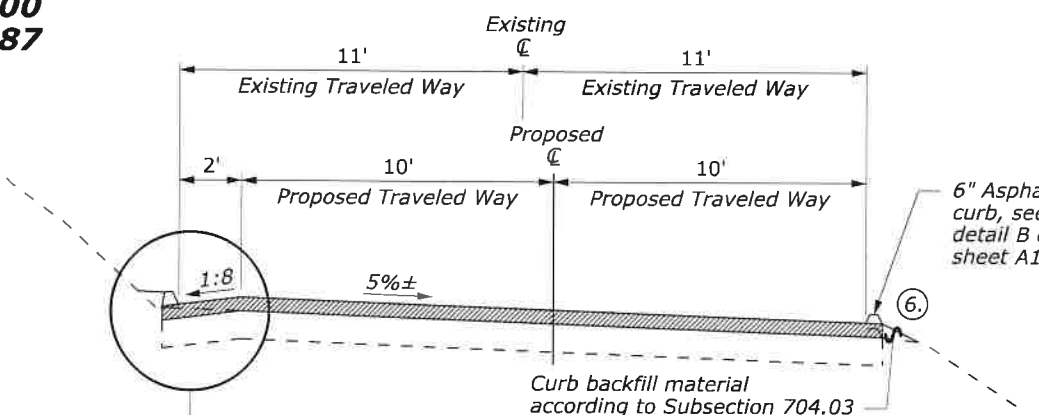
ASPHALT GUTTER DETAIL
648+33 to 648+60, Lt
649+05 to 649+36, Lt



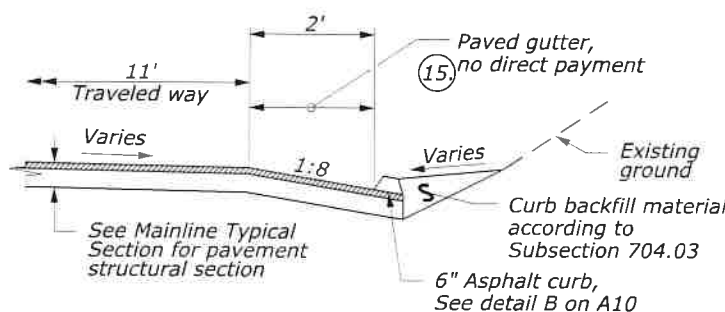
DITCH CUT DETAIL ②
722+92 to 725+30, Rt
740+20 to 742+20, Rt
755+00 to 756+00, Rt



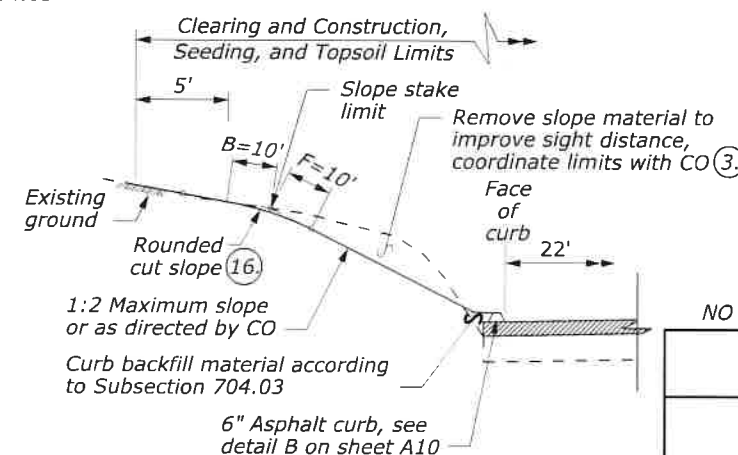
ROADSIDE CURB DETAIL
713+10 to 714+60, Lt
738+80 to 740+00, Rt
765+50 to 768+00, Rt



HIGH SIDE CURB DETAIL
786+98 to 797+05, Lt
790+05 to 796+05, Rt



PAVED GUTTER DETAIL
648+60 to 649+05, Lt
714+60 to 722+72, Lt
786+98 to 797+05, Lt



STOPPING SIGHT DISTANCE SLOPE EXCAVATION DETAIL
732+00 to 733+30, Lt
733+30 to 734+40, Rt

NOTES:

- ① Berm cut is paid for under 20430-1000 Shoulder Excavation as a LNFT item.
- ② Ditch cut is paid for under 20425-1000 Ditch Excavation as LNFT item.
- ③ Stopping sight distance slope excavation is paid for under 20401-0000 Roadway Excavation.
4. 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 includes existing asphalt curbs.
5. Spread pulverized asphalt and pave across the available width on all curves. 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.
- ⑥ Construct foreslope no steeper than 1:2 to fit on existing bench as directed by the CO. Provide 1:4 shoulder foreslopes as space permits.
7. Where subgrade soils are composed of pumice, they should be sub-excavated 2 feet, reinforced with geotextile fabric and recompacted. See C Series for approximate locations.
8. Based on visual observations during the pavement investigation, cobbles and boulders may be present within mainline subgrade. A visual survey of the surrounding foreslopes is a good indicator of the subgrade make-up. Remove cobbles larger than the largest allowable gradation per SCR Subsection 301.03. Removal of cobbles is incidental to pay item 30401-5300 Full Depth Reclamation, Method 2, 6-inch depth.
9. The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.
10. During excavation of cut slopes on the project, large boulders, should be expected within the proposed excavation limits. Avoid removing or destabilizing large boulders found to be crossing the proposed finished slope.
11. Prior to pulverizing, windrow existing shoulder material to the outside of shoulder or remove and stockpile. Use windrow material to shoulder up behind new edge of pavement. Work is incidental to pay item 30401-5300 Full Depth Reclamation, Method 2, 6-inch depth.
12. Existing super elevated and widened sections are not shown.
13. Dimensions are approximate and may be varied by the CO.
14. Complete Centerline Verification and Staking prior to earthwork and complete all earthwork to catch points prior to pulverizing.
- ⑮ Paved Gutters have slopes of 1V:8H and are not subject to cross slope change with mainline superelevation. Pavement structural section for paved gutters is the same as the mainline pavement. The asphalt and roadway aggregate quantities for the paved gutters are included in the mainline 30100-0000 and 40101-5600 item quantities.
- ⑯ Round all earth slopes and all rippable rock slopes. For cut heights less than B, reduce the B and F dimensions to the actual cut height.



09/06/2022

NO SCALE

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

U.S. CUSTOMARY

OPTION X
TYPICAL SECTIONS
REHABILITATION DETAILS

Sheet 1 of 2

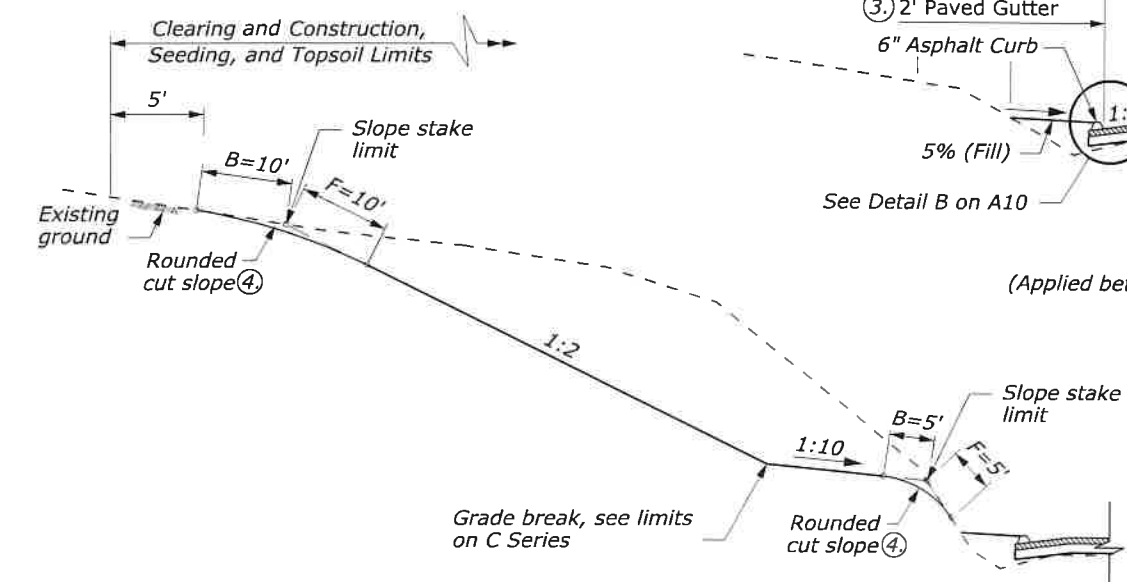
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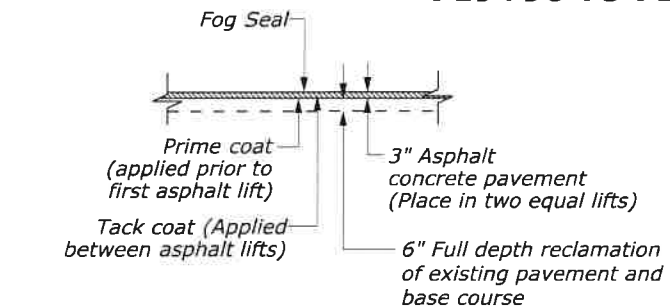
9/6/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A13

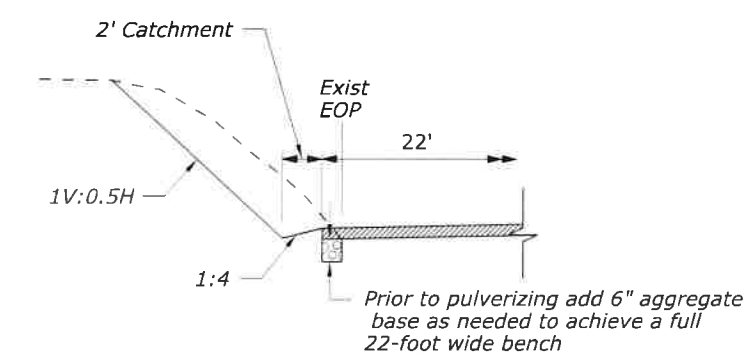
CURVE WIDENING TABLE				
Curve No.	Radius at CL	Width	Begin Widening Taper Sta/Off to Edge of Lane	End Widening Taper Sta/Off to Edge of Lane
C581	81'	4'	719+74, 11.00' Lt.	720+53, 15.00' Lt.
			721+89, 15.00' Lt.	722+31, 11.00' Lt.
C582	81'	4'	721+89, 11.00' Rt.	722+31, 15.00' Rt.
			723+26, 15.00' Rt.	724+06, 11.00' Rt.



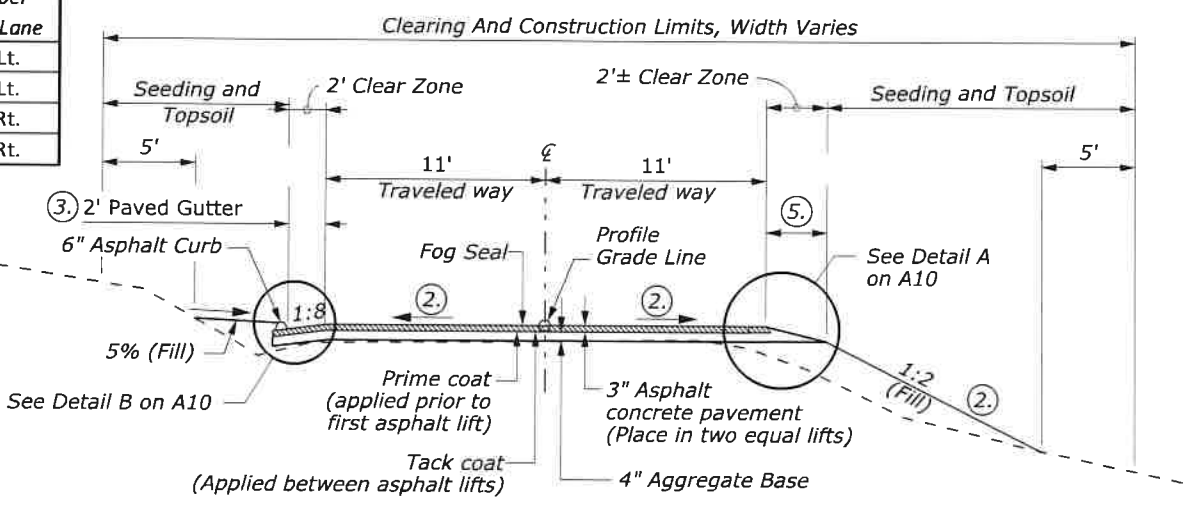
**INTERSECTION SIGHT DISTANCE GRADING
719+90 TO 722+16**



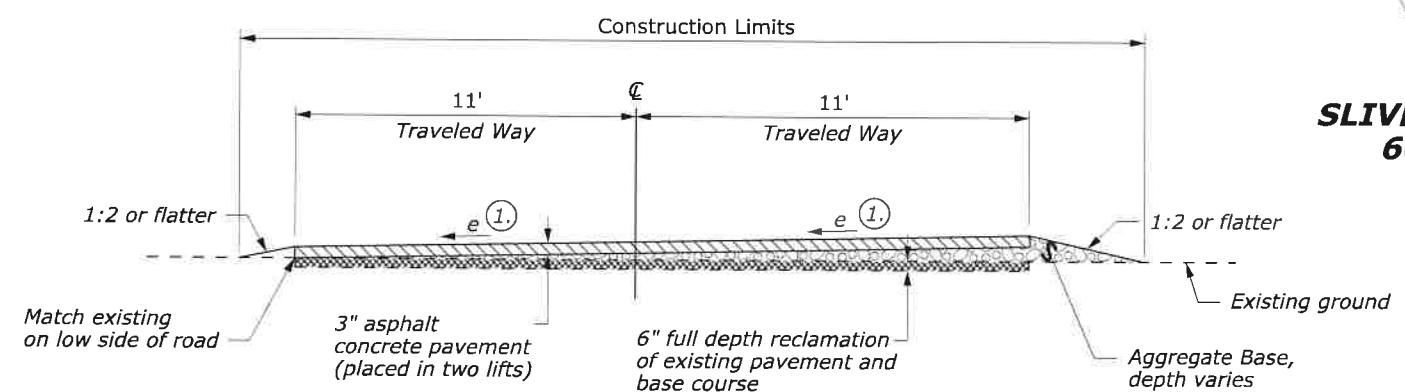
**TYPICAL SECTION
BUS STOPS AND DRIVEWAYS**



**ROCK EXCAVATION DETAIL
580+00 TO 584+50
694+00 TO 694+20.00**



**TYPICAL SECTION
REDS MEADOW ROAD
713+10 TO 725+30.00**

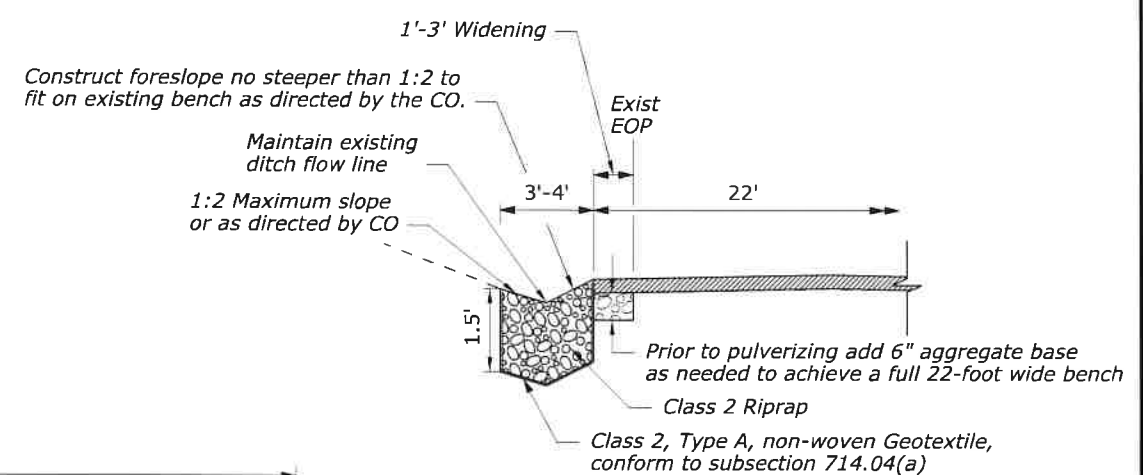


**SUPERELEVATION CORRECTION TYPICAL SECTION
REDS MEADOW ROAD**

SUPERELEVATION CORRECTION SUMMARY								
Curve No.	Radius	Station	to	Station	Side	Existing Superelevation	Proposed Superelevation	Aggregate Base (TON)
C588	100'	731+52	to	733+52	LT & RT	0%±	6.0%	124
C589	150'	733+52	to	734+59	LT & RT	0%±	5.4%	83
C605	150'	770+07	to	772+47	LT & RT	0%±	5.4%	135
C606	150'	772+47	to	774+00	LT & RT	0%±	5.4%	56
Option X Total								398

NOTES:

1. Smoothly transition cross slope between curves at a rate not to exceed 1% of cross slope transition per 15' of roadway length at center line. Proposed superelevation may be adjusted based on available transition distances. Coordinate all adjustments with the CO.
2. See the superelevation diagram and cross sections for cross slope and cut and fill ratio.
3. Paved Gutters have slopes of 1V:8H and are not subject to cross slope change with mainline superelevation. Pavement structural section for paved gutters is the same as the mainline pavement. The asphalt and roadway aggregate quantities for the paved gutters are included in the mainline 30101-0000 and 40101-5600 item quantities.
4. Round all earth slopes and all rippable rock slopes. For cut heights less than B, reduce the B and F dimensions to the actual cut height.
5. Width varies depending on roadway cross slope.



**SLIVER WIDENING DETAIL
604+00 TO 608+50**



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

U.S. CUSTOMARY

**OPTION X
TYPICAL SECTIONS
REHABILITATION DETAILS**

Sheet 2 of 2

NO SCALE

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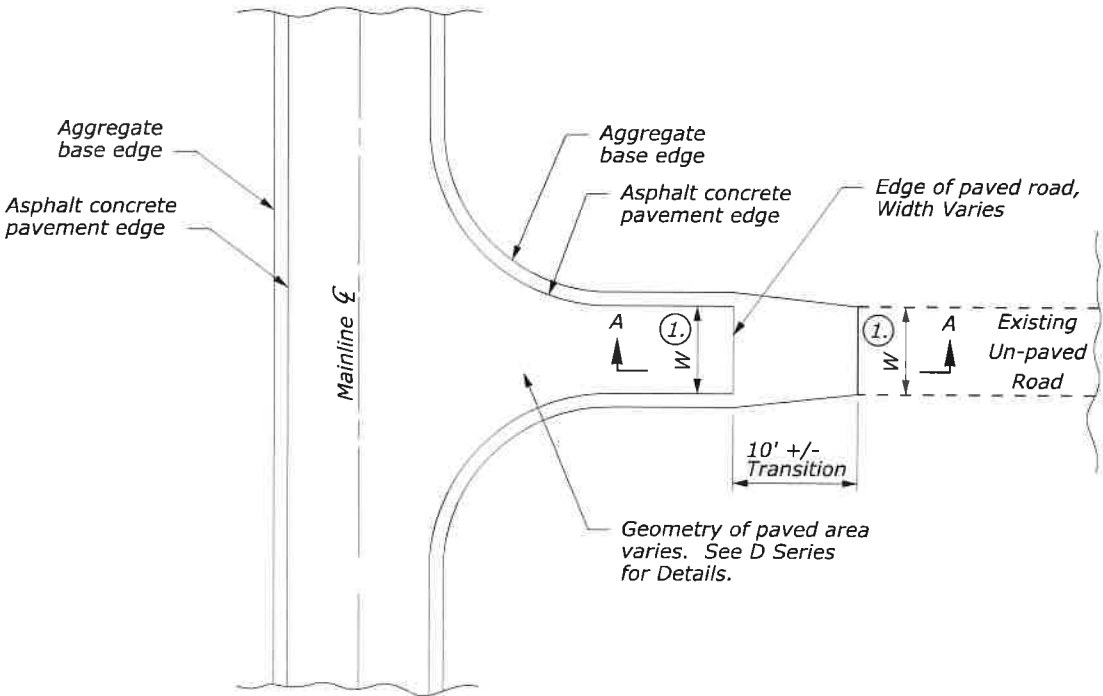
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3/25/2021

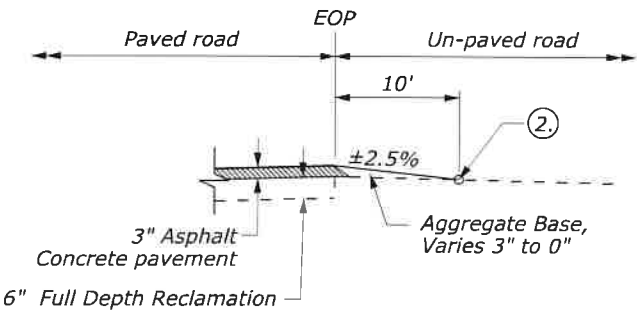
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	A14

NOTES:

- ① Match existing width. Coordinate limits with CO.
- ② Limit breakover to 2.5% or less. Use aggregate to provide smooth transition.



TYPICAL PLAN



SECTION A-A

Approach Road Summary				
Schedule	Location	Length	Width	Aggregate Base (Tons)
A	205+50	24	10	2.1
Schedule A Total				2.1
X	Bus Stop #1	48	10	4.2
X	Bus Stop #3	40	10	3.5
X	Pumice Flat Driveway	25	10	2.2
X	646+00	12	10	1.0
X	647+10	24	10	2.1
X	652+00	24	10	2.1
X	654+80	24	10	2.1
X	Bus Stop #5	20	10	1.7
X	Bus Stop #7	245	10	21.3
X	Bus Stop #8	16	10	1.4
X	Bus Stop #9	10	10	0.9
X	802+50	12	10	1.0
X	803+80	20	10	1.7
X	804+40	28	10	2.4
Option X Total				47.6



03/26/2021

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

U.S. CUSTOMARY

TYPICAL SECTIONS
APPROACH ROAD
TRANSITION TO UN-PAVED
ROADS

NO SCALE

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SUMMARY OF QUANTITIES - Schedule A																	STATE	PROJECT	SHEET NUMBER	
																	CA	CA FLAP 03S11(1)	B1	
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description													Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					B7	B9	B10	B14	B15-B16	B19	B20	B21	B24	B28				Allowance		Bid Schedule
					Removal Summary	Survey and Staking Summary	Grading Summary	Surfacing Summary	Drainage Summary	Erosion Control Summary	Wall Summary	Permanent Pavement Markings Summary	Permanent Sign Summary	Misc. Summary						
	A2000	15101-0000	MOBILIZATION	LPSM														ALL		
	A2010	15206-0000	SLOPE, REFERENCE, AND CLEARING AND GRUBBING STAKE	MILE		2.500												2.500		
	A2020	15210-3000	CENTERLINE, VERIFICATION AND STAKING	MILE		0.5												0.500		
	A2030	15214-2000	SURVEY AND STAKING, RETAINING WALL	LPSM														ALL		
	A2040	15215-3000	SURVEY AND STAKING, DRAINAGE STRUCTURE	EACH		39												39		
	A2050	15216-2000	SURVEY AND STAKING, GRADE FINISHING STAKES	MILE		4.900												4.900		
	A2060	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM														ALL		
	A2070	15401-0000	CONTRACTOR TESTING	LPSM														ALL		
	A2080	15501-0000	CONSTRUCTION SCHEDULE	LPSM														ALL		
	A2090	15701-0000	SOIL EROSION CONTROL	LPSM														ALL		
	A2100	15720-0000	STORM WATER POLLUTION PREVENTION PLAN	LPSM														ALL		
	A2110	15802-0000	WATERING FOR DUST CONTROL	LPSM														ALL		
	A2120	20101-0000	CLEARING AND GRUBBING	ACRE	13.4												0.6	14.0		
	A2130	20301-1100	REMOVAL OF GATE	EACH	1													1		
	A2140	20301-1900	REMOVAL OF PIPE CULVERT	EACH	33													33		
	A2150	20301-2300	REMOVAL OF SIGN/MARKER (CARSONITE MARKER)	EACH	200													200		
	A2160	20301-2400	REMOVAL OF SIGN	EACH									24					24		
	A2170	20402-0000	SUBEXCAVATION	CUYD			615										385	1,000		
	A2180	20420-0000	EMBANKMENT CONSTRUCTION (REINFORCED SOIL SLOPE)	CUYD			23,343										2,657	26,000		
	A2190	20420-0000	EMBANKMENT CONSTRUCTION	CUYD			8,525										975	9,500		
	A2200	20421-0000	ROCK EXCAVATION	CUYD			2,922										578	3,500	Contract Quantity	
	A2210	20441-0000	WASTE	CUYD			11,206										794	12,000		
	A2220	20720-0200	REINFORCEMENT GEOSYNTHETIC, TYPE 2	SQYD			63,915										3,085	67,000		
	A2230	25101-0200	PLACED RIPRAP, METHOD A, CLASS 2	CUYD					210								40	250		
	A2240	25101-0300	PLACED RIPRAP, METHOD A, CLASS 3	CUYD					16								9	25		
	A2250	25302-1000	GABIONS, GALVANIZED OR ALUMINIZED COATED	CUYD					115								15	130		
	A2260	25902-0000	SOIL NAIL RETAINING WALL	SQFT							30,097						903	31,000		
	A2270	25903-0000	VERIFICATION TEST NAIL	EACH							21							21		
MileStone: 100% Master Estimate Date Completed: 08/23/22 Report Date: 08/23/22																				

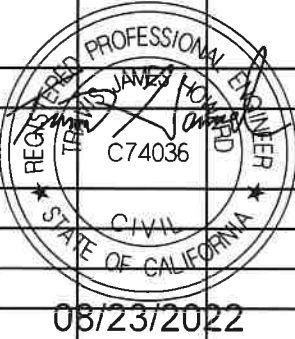


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SUMMARY OF QUANTITIES - Schedule A																	STATE	PROJECT	SHEET	
																	CA	CA FLAP 03S11(1)	NUMBER	
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description													Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					B7	B9	B10	B14	B15-B16	B19	B20	B21	B24	B28				Allowance		Bid Schedule
					Removal Summary	Survey and Staking Summary	Grading Summary	Surfacing Summary	Drainage Summary	Erosion Control Summary	Wall Summary	Permanent Pavement Markings Summary	Permanent Sign Summary	Misc. Summary						
	A2280	30101-0000	AGGREGATE BASE	TON				8,997									503	9,500		
	A2300	30401-5300	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	MILE				0.4										0.400		
	A2310	30402-5300	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	SQYD				1,278									122	1,400		
	A2330	40101-5600	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH OR 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL	TON				7,394									606	8,000		
	A2340	40105-3000	ANTISTRIP ADDITIVE, TYPE 3	TON				74									6	80		
	A2360	40601-0000	FOG SEAL	TON				24.3									5.7	30		
	A2370	41101-0000	PRIME COAT	TON				63.1									6.9	70		
	A2380	41105-0000	BLOTTER	TON				334									16	350		
	A2390	41201-0000	TACK COAT	TON				19.4									5.6	25		
	A2400	50101-0600	MINOR CONCRETE PAVEMENT, REINFORCED, 6-INCH DEPTH	SQYD										1			1	2		
	A2410	60201-0600	18-INCH PIPE CULVERT	LNFT					55								5	60		
	A2420	60201-0800	24-INCH PIPE CULVERT	LNFT					1,393								107	1,500		
	A2430	60201-1000	36-INCH PIPE CULVERT	LNFT					46								14	60		
	A2440	60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH					14									14		
	A2450	60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH					2									2		
	A2460	60403-0000	INLET	EACH					22									22		
	A2470	60404-0000	CATCH BASIN	EACH					20									20		
	A2480	60501-0000	STANDARD UNDERDRAIN SYSTEM	LNFT					710								40	750		
	A2490	60901-2300	CURB, ASPHALT, 6-INCH DEPTH	LNFT										5,999			301	6,300		
	A2500	61701-4500	GUARDRAIL SYSTEM MGS, TYPE 2, CLASS A STEEL POSTS (STAINED)	LNFT										3,225			100	3,325		
	A2510	61702-1500	TERMINAL SECTION, TYPE MGS TANGENT (STAINED)	EACH										14				14		
	A2520	61902-0900	GATE, METAL	EACH										1				1		
	A2530	62201-0200	DUMP TRUCK, 8 CUBIC YARD MINIMUM CAPACITY	hour														40		
	A2540	62201-0350	BACKHOE	hour														40		
	A2550	62201-2750	MOTOR GRADER	hour														40		
	A2560	62201-3000	HYDRAULIC EXCAVATOR	hour														120		
	A2570	62301-0000	GENERAL LABOR	hour														200		

REGISTERED PROFESSIONAL ENGINEER
JAMES H. CHEN
C74036
CIVIL
STATE OF CALIFORNIA

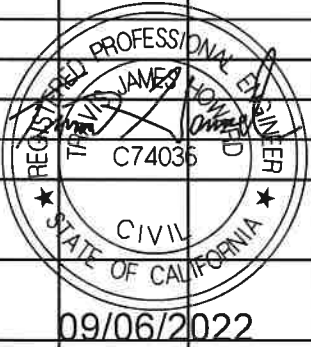
08/23/2022



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B3

MileStone: 100% Master Estimate
Date Completed: 08/23/22
Report Date: 08/23/22

SUMMARY OF QUANTITIES - Option X																		STATE	PROJECT	SHEET NUMBER
																		CA	CA FLAP 03S11(1)	B4
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description													Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					B7-B8	B9	B11	B14	B17-B18	B19	B22-B23	B25-B27	B28							
					Removal Summary	Survey and Staking Summary	Grading Summary	Surfacing Summary	Drainage Summary	Riprap and Erosion Control Summary	Permanent Pavement Markings Summary	Permanent Sign Summary	Misc. Summary					Allowance		Bid Schedule
	X2000	15101-0000	MOBILIZATION	LPSM														ALL		
	X2010	15206-0000	SLOPE, REFERENCE, AND CLEARING AND GRUBBING STAKE	MILE		0.200												0.200		
	X2020	15210-3000	CENTERLINE, VERIFICATION AND STAKING	MILE		5.600												5.600		
	X2030	15215-3000	SURVEY AND STAKING, DRAINAGE STRUCTURE	EACH		44												44		
	X2040	15216-2000	SURVEY AND STAKING, GRADE FINISHING STAKES	MILE		0.500												0.500		
	X2050	15301-0000	CONTRACTOR QUALITY CONTROL	LPSM														ALL		
	X2060	15401-0000	CONTRACTOR TESTING	LPSM														ALL		
	X2070	15501-0000	CONSTRUCTION SCHEDULE	LPSM														ALL		
	X2080	15701-0000	SOIL EROSION CONTROL	LPSM														ALL		
	X2090	15802-0000	WATERING FOR DUST CONTROL	LPSM														ALL		
	X2100	20101-0000	CLEARING AND GRUBBING	ACRE	1.5											0.5		2.0		
	X2110	20202-0000	SELECTIVE CLEARING	SQYD	1,412											88		1,500		
	X2120	20301-1200	REMOVAL OF HEADWALL	EACH	6													6		
	X2130	20301-1900	REMOVAL OF PIPE CULVERT	EACH	37													37		
	X2140	20301-2300	REMOVAL OF SIGN/MARKER (CARSONITE MARKER)	EACH	300													300		
	X2150	20301-2400	REMOVAL OF SIGN	EACH								60						60		
	X2160	20302-2300	REMOVAL OF WATERLINE	LNFT	60											15		75		
	X2170	20401-0000	ROADWAY EXCAVATION	CUYD			2,582									418		3,000		
	X2180	20402-0000	SUBEXCAVATION	CUYD			2,875									325		3,200		
	X2190	20421-0000	ROCK EXCAVATION	CUYD			601									199		800	Contract Quantity	
	X2200	20425-1000	DITCH, EXCAVATION	LNFT			538									112		650		
	X2210	20430-1000	SHOULDER, EXCAVATION	LNFT			600									200		800		
	X2220	20441-0000	WASTE	CUYD			2,109									391		2,500		
	X2230	25101-0200	PLACED RIPRAP, METHOD A, CLASS 2	CUYD						149						51		200		
	X2240	25101-0300	PLACED RIPRAP, METHOD A, CLASS 3	CUYD						17						8		25		
	X2250	30101-0000	AGGREGATE BASE	TON				2,169								331		2,500		
	X2270	30301-1000	DITCH RECONDITIONING	MILE									6					6,000	As directed by CO.	
	X2280	30401-5300	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	MILE				5.5								0.3		5,800		
	X2290	30402-5300	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	SQYD				6,212								788		7,000		
MileStone: 100% Master Estimate Date Completed: 08/23/22 Report Date: 08/23/22																				



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SUMMARY OF QUANTITIES - Option X																	STATE	PROJECT	SHEET NUMBER
																	CA	CA FLAP 03S11(1)	B5
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description												Estimated Quantities		Remarks and/or Determination of Estimated Quantity
					B7-B8	B9	B11	B14	B17-B18	B19	B22-B23	B25-B27	B28						
					Removal Summary	Survey and Staking Summary	Grading Summary	Surfacing Summary	Drainage Summary	Riprap and Erosion Control Summary	Permanent Pavement Markings Summary	Permanent Sign Summary	Misc. Summary				Allowance	Bid Schedule	
	X2300	40101-5600	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH OR 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL	TON				13,125									875	14,000	
	X2320	40105-3000	ANTISTRIP ADDITIVE, TYPE 3	TON				131									69	200	
	X2340	40601-0000	FOG SEAL	TON				43									7	50	
	X2350	41101-0000	PRIME COAT	TON				114									16	130	
	X2360	41105-0000	BLOTTER	TON				593									57	650	
	X2370	41201-0000	TACK COAT	TON				34									6	40	
	X2380	60103-0660	CONCRETE, HEADWALL FOR DOUBLE 36-INCH PIPE CULVERT	EACH					2									2	
	X2390	60201-0400	12-INCH PIPE CULVERT	LNFT					227								23	250	
	X2400	60201-0500	15-INCH PIPE CULVERT	LNFT					77								13	90	
	X2410	60201-0600	18-INCH PIPE CULVERT	LNFT					664								36	700	
	X2420	60201-0800	24-INCH PIPE CULVERT	LNFT					742								38	780	
	X2430	60201-1000	36-INCH PIPE CULVERT	LNFT					163								7	170	
	X2440	60202-0700	42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	LNFT					41								9	50	
	X2450	60210-0400	END SECTION FOR 12-INCH PIPE CULVERT	EACH					10									10	
	X2460	60210-0500	END SECTION FOR 15-INCH PIPE CULVERT	EACH					4									4	
	X2470	60210-0600	END SECTION FOR 18-INCH PIPE CULVERT	EACH					29									29	
	X2480	60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH					33									33	
	X2490	60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH					4									4	
	X2500	60211-1000	END SECTION FOR 36-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	EACH					2									2	
	X2510	60211-1100	END SECTION FOR 42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	EACH					2									2	
	X2520	60404-0000	CATCH BASIN	EACH					6									6	
	X2530	60501-0000	STANDARD UNDERDRAIN SYSTEM	LNFT					475								25	500	
	X2540	60704-0000	CLEANING CULVERT IN PLACE	EACH					8									8	
	X2550	60901-2300	CURB, ASPHALT, 6-INCH DEPTH	LNFT									3,319				181	3,500	
MileStone: 100% Master Estimate																			
Date Completed: 07/29/22																			
Report Date: 07/29/22																			



SUMMARY OF QUANTITIES - Option X																	STATE	PROJECT	SHEET NUMBER	
																	CA	CA FLAP 03S11(1)	B6	
A M E N D	Line Item No.	Pay Item Number	Pay Item Description	Unit	Sheet and Description													Estimated Quantities	Remarks and/or Determination of Estimated Quantity	
					B7-B8	B9	B11	B14	B17-B18	B19	B22-B23	B25-B27	B28							
					Removal Summary	Survey and Staking Summary	Grading Summary	Surfacing Summary	Drainage Summary	Riprap and Erosion Control Summary	Permanent Pavement Markings Summary	Permanent Sign Summary	Misc. Summary					Allowance		Bid Schedule
	X2560	61102-1545	2-INCH WATERLINE	LNFT										60				15	75	
	X2570	62201-0200	DUMP TRUCK, 8 CUBIC YARD MINIMUM CAPACITY	HOURL															40	
	X2580	62201-0350	BACKHOE	HOURL															40	
	X2590	62201-2750	MOTOR GRADER	HOURL															40	
	X2600	62201-3000	HYDRAULIC EXCAVATOR	HOURL															100	
	X2610	62301-0000	GENERAL LABOR	HOURL															200	
	X2620	62302-1000	SPECIAL LABOR, HIRED TECHNICAL SERVICES	HOURL															100	
	X2630	62302-1100	SPECIAL LABOR, HIRED SURVEY SERVICES	HOURL															100	
	X2640	62405-0200	PLACING CONSERVED TOPSOIL, 3-INCH DEPTH	SQYD							6,208							792	7,000	
	X2650	62510-2000	SEEDING, HYDRAULIC METHOD	ACRE							1.3							0.7	2.0	
	X2660	62901-1100	ROLLED EROSION CONTROL PRODUCT, TYPE 4	SQYD							6,208							792	7,000	
	X2670	63301-0000	SIGN SYSTEM	EACH									43						43	
	X2680	63302-0000	SIGN SYSTEM (SPECIAL SIGNS)	SQFT									243					17	260	
	X2690	63308-0000	OBJECT MARKER	EACH						104									104	
	X2700	63402-0300	PAVEMENT MARKINGS, TYPE B, SOLID	MILE								46.6						3.4	50.0	
	X2710	63405-0050	PAVEMENT MARKINGS, SYMBOLS	EACH								66							66	
	X2720	63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM															ALL	
	X2730	63503-1000	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	LNFT										1,140				60	1,200	
	X2740	64631-0000	ROADSIDE DEVELOPMENT	LNFT					80									20	100	

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MileStone: 100% Master Estimate

Date Completed: 07/29/22

Report Date: 07/29/22

07/29/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03511(1)	B7

REMOVAL SUMMARY - SCHEDULE A					
Item Number	20101-0000	20301-1100	20301-1900	20301-2300	
Station to Station	CLEARING AND GRUBBING	REMOVAL OF GATE	REMOVAL OF PIPE CULVERT	REMOVAL OF SIGN/MARKER (CARSONITE MARKERS)	Remarks
	ACRE	EACH	EACH	EACH	
12+00		1			
10+70 to 139+00	13.4		33	200	
TOTAL	13.4	1	33	200	

REMOVAL SUMMARY - OPTION X							
Item Number	20101-0000	20202-0000	20301-1200	20301-1900	20301-2300	20302-2300	
Station to Station	CLEARING AND GRUBBING	SELECTIVE CLEARING	REMOVAL OF HEADWALL	REMOVAL OF PIPE CULVERT	REMOVAL OF SIGN/MARKER (CARSONITE MARKERS)	REMOVAL OF WATERLINE	Remarks
	ACRE	SQYD	EACH	EACH	EACH	LNFT	
506+00				1			
515+50				1			
517+30				1			
521+40				1			
524+00				1			
534+20				1			
535+00			1	1			
539+50			1	1			
545+10			1	1			
549+80				1			
550+90				1			
556+50				1			
563+00				1			
564+20				1			
573+90				1			
590+00				2			
596+00				1			
596+20				1			
598+70				1			
604+00				1			
608+50				2			



07/29/2022

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

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B8

REMOVAL SUMMARY - OPTION X							
Item Number	20101-0000	20202-0000	20301-1200	20301-1900	20301-2300	20302-2300	
Station to Station	CLEARING AND GRUBBING	SELECTIVE CLEARING	REMOVAL OF HEADWALL	REMOVAL OF PIPE CULVERT	REMOVAL OF SIGN/MARKER (CARSONITE MARKERS)	REMOVAL OF WATERLINE	Remarks
	ACRE	SQYD	EACH	EACH	EACH	LNFT	
617+00				1			
620+50				1			
636+00				1			
652+00				1			
661+80				1			
680+90				1			
684+90				1			
693+50				1			
713+10 to 725+30	1.5						
723+00				1			
727+73				1			
736+20			1	1			
755+85						30	
772+00			2	2			
785+60				1			
623+60 to 624+60		253					
722+00 to 724+50		479					
732+00 to 733+30		150					
733+30 to 734+40		56					
763+50						30	
770+80 to 772+40		474					
496+70 to 805+58					300		
TOTAL	1.5	1412	6	37	300	60	



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
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REMOVAL SUMMARY
Sheet 2 of 2

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B9

SURVEY AND STAKING SUMMARY - SCHEDULE A						
Item Number		15206-0000	15210-3000	15215-3000	15216-2000	
Station to Station	Side	SLOPE, REFERENCE, AND CLEARING AND GRUBBING STAKE	CENTERLINE, VERIFICATION AND STAKING	SURVEY AND STAKING, DRAINAGE STRUCTURE	SURVEY AND STAKING, GRADE FINISHING STAKES	Remarks
		MILE	MILE	EACH	MILE	
MINARET VISTA						
200+27 to 217+43			0.33			
MINARET VISTA SPUR						
300+18 to 302+69			0.05			
REDS MEADOW ROAD						
5+95 to 10+70			0.09			
10+70 to 139+09		2.5		39	4.9	
TOTAL		2.5	0.5	39	4.9	

SURVEY AND STAKING SUMMARY - OPTION X						
Item Number		15206-0000	15210-3000	15215-3000	15216-2000	
Station to Station	Side	SLOPE, REFERENCE, AND CLEARING AND GRUBBING STAKE	CENTERLINE, VERIFICATION AND STAKING	SURVEY AND STAKING, DRAINAGE STRUCTURE	SURVEY AND STAKING, GRADE FINISHING STAKES	Remarks
		MILE	MILE	EACH	MILE	
REDS MEADOW ROAD						
496+70 to 713+10			4.1	44		
713+10 TO 725+30		0.2			0.5	
725+30 to 805+58			1.5			
TOTAL		0.2	5.6	44	0.5	



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

SURVEY AND STAKING
SUMMARY

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9/6/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B10

GRADING SUMMARY - SCHEDULE A														
COLUMN DESIGNATION	A	B	C	D	E	F	G	H	I	J	K	L	M	
	For info only	For info only	Pay Item 20421-0000	Pay Item 20402-0000	For info only			Pay Item 20420-0000	Pay Item 20420-0000	Pay Item 20720-0200	For info only	For info only	Pay Item 20441-0000	
Station to Station	ROADWAY EXCAVATION	ROADWAY EXCAVATION (PUMICE DIGOUTS)	ROCK EXCAVATION, note 5	SUBEXCAVATI ON	SOIL NAIL WALL EXCAVATION (Payment incidental to wall construction)	Bank to Fill Shrink/Swell Factor, note 1	Net Excavation Available for Embankment after Shrink/Swell Factor is Applied (A+C+E)*F	EMBANKMENT CONSTRUCTION	EMBANKMENT CONSTRUCTION (RSS)	REINFORCEMENT GEOSYNTHETIC, TYPE 2	(+) Various Backfill Material Generated Onsite (TOPSOIL, note 6)	IMPORT (H+I)-G	WASTE, note 4	REMARKS
	BCY	BCY	CUYD	CUYD	BCY		CCY	CUYD	CUYD	SQYD	BCY	CCY	CUYD	
8+00 - 10+00	0	0	0	615	0	0.9	0	615	0	0	-	615	553	M = (B+D)*F
10+70 - 11+60	10	0	0	0	0	0.90	9	51	0	0	-	42	0	
11+60 - 17+25	549	0	38	0	0	1.20	704	625	638	7,503	-	559	0	
17+25 - 41+35	8,066	0	145	0	327	0.90	7,685	451	6,977	14,293	-	-257	0	
41+35 - 42+50	386	0	69	0	0	1.20	547	5	157	511	-	-385	0	
42+50 - 45+60	773	0	259	0	0	1.08	1,115	9	596	1,754	-	-509	0	
45+60 - 54+00	1,490	0	134	0	69	0.90	1,523	973	1,215	3,184	-	665	0	
54+00 - 69+30	5,042	874	0	0	336	note 4	note 4	352	3,388	8,247	-	3,740	8753	M = (A+B+D+E)*1.4
69+30 - 90+10	4,709	1,060	1,396	0	26	1.20	7,357	1,414	2,295	6,605	-	-3,648	1485	M = B*1.4
90+10 - 97+20	1,761	297	370	0	64	1.08	2,371	486	1,227	3,662	-	-658	415	M = B*1.4
97+20 - 132+00	8,144	0	0	0	284	0.90	7,586	3,472	5,895	15,380	-	1,782	0	
132+00 - 139+00	1,941	0	510	0	18	1.20	2,963	687	954	2,776	-	-1,321	0	
PROJECT WIDE	NA	NA	NA	0	0	NA	NA	NA	NA	NA	1,987	-	0	Topsoil, note 6
TOTALS	32,872	2,231	2,922	615	1,124	NA	31,859	8,525	23,343	63,915	1,987	624	11,206	

- NOTE:
- 1. See Geotech Report for basis of Shrink/Swell factors used in the calculations.
 - 2. The quantities shown herein are approximations. Payment will be made for the actual quantities of work performed.
 - 3. BCY = Bank cubic yard - one cubic yard of material as it lies in the natural state.
CCY = Compacted cubic yard - one cubic yard of material after it has been compacted to specification density.
 - 4. See remarks column for waste calculations. Excavation within STA 54+00-STA 69+30 contains a high concentration of pumice and is not suitable for fill. All excavation in this section is treated as waste. A bank to fill swell factor of 1.4 was used to calculate CCY of waste of for anticipated pumice rich material.
 - 5. Calculations assume rock excavation material generated onsite used in embankments per Section 204.10(b).
 - 6. Topsoil paid as 62405-0200, PLACING CONSERVED TOPSOIL, 3-INCH DEPTH as a SQYD Item. See Erosion Control Summary.



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GRADING SUMMARY
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3/26/2021

GRADING SUMMARY - OPTION X											
COLUMN DESIGNATION	A	B	C	D	E	F	G	H			
	Pay Item 20401-0000	Pay Item 20421-0000	Pay Item 20402-0000			For info only	For info only	Pay Item 20441-0000	Pay Item 20425-1000	Pay Item 20430-1000	
Station to Station	ROADWAY EXCAVATION	ROCK EXCAVATION	SUBEXCAVATION, Note 4	Bank to Fill Shrink/Swell Factor, Note 3	Net Excavation Available for Embankment after Shrink/Swell Factor is Applied E=(A+B+C)*D	EMBANKMENT CONSTRUCTION (Roadway Prism)	EMBANKMENT CONSTRUCTION (Subex Backfill)	WASTE H=E-F-G	DITCH, EXCAVATION	SHOULDER, EXCAVATION	REMARKS
	CUYD	CUYD	CUYD		CCY	CCY	CCY	CUYD	LNFT	LNFT	
496+70 - 512+20	0	0	0	0.90	0	0	0	0			
512+20 - 514+00	0	0	171	0.90	154	0	147	7			
514+00 - 577+50	0	0	0	0.90	0	0	0	0			
577+50 - 579+25	0	0	333	0.90	299	0	285	14			
579+25 - 580+00	0	0	0	0.90	0	0	0	0			
580+00 - 583+15	0	327	0	1.35	441	0	0	441			
583+15 - 583+25	0	10	0	1.35	14	0	0	14			
583+25 - 584+50	0	130	0	1.35	175	0	0	175			
584+50 - 588+00	0	0	0	0.90	0	0	0	0			
588+00 - 589+10	0	0	209	0.90	188	0	179	9			
589+10 - 589+80	0	0	0	0.90	0	0	0	0			
589+80 - 590+40	0	62	0	1.35	84	0	0	84			
590+40 - 592+90	0	0	0	0.90	0	0	0	0			
592+90 - 593+40	0	52	0	1.35	70	0	0	70			
593+40 - 614+00	0	0	0	0.90	0	0	0	0			
614+00 - 615+80	0	0	342	0.90	308	0	293	15			
615+80 - 639+00	0	0	0	0.90	0	0	0	0		130	Berm cut
639+00 - 641+60	0	0	437	0.90	393	0	375	19			
641+60 - 643+60	0	0	0	0.90	0	0	0	0			
643+60 - 645+50	0	0	361	0.90	325	0	310	15			
645+50 - 647+00	0	0	0	0.90	0	0	0	0			
647+00 - 649+50	0	0	418	0.90	376	0	359	18			
649+50 - 694+00	0	0	0	0.90	0	0	0	0			
694+00 - 694+20	0	21	0	1.35	28	0	0	28			
694+20 - 713+10	0	0	0	0.90	0	0	0	0			
713+10 - 725+30	615	0	0	0.90	553	1,149	0	-596	238		Roadway Construction
719+90 - 722+16	1,967	0	0	0.90	1,770	0	0	1,770			Intersection Sight Distance Grading
725+30 - 736+50	0	0	0	0.90	0	0	0	0			
736+50 - 737+20	0	0	67	0.90	60	0	57	3			
737+20 - 756+25	0	0	0	0.90	0	0	0	0	300		Ditch Cut
756+25 - 759+00	0	0	261	0.90	235	0	224	11			
759+00 - 768+00	0	0	0	0.90	0	0	0	0		370	Berm cut
768+00 - 770+90	0	0	276	0.90	248	0	236	12			
770+90 - 805+39	0	0	0	0.90	0	0	0	0		100	Berm cut
TOTALS	2,582	601	2,875	NA	5,723	1,149	2,465	2,109	538	600	

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B11



03/26/2021

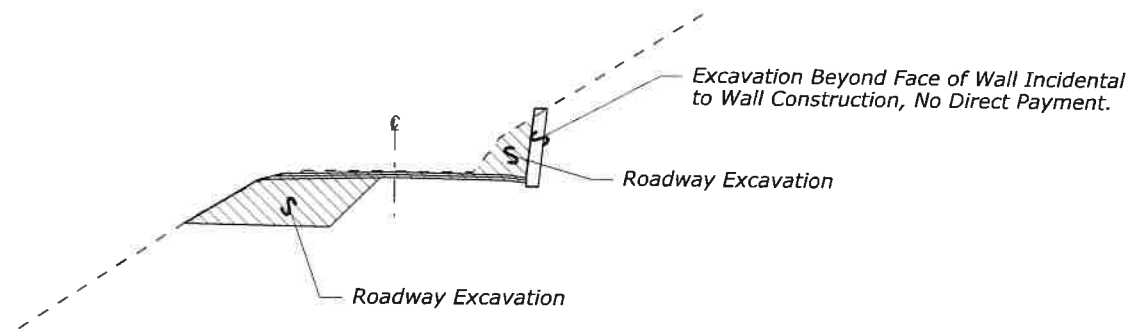
NOTE:

1. The quantities shown herein are approximations. Payment will be made for the actual quantities of work performed.
2. BCY = Bank cubic yard - one cubic yard of material as it lies in the natural state.
CCY = Compacted cubic yard - one cubic yard of material after it has been compacted to specification density.
3. The average shrink/swell factor shown is based on assumption native soils are primarily soil-gravel. See Geotech Report for recommended shrink/swell values.
4. Subexcavation volume for station ranges shown based on volume between existing grade and 24" below subgrade for total excavation depth of 28".

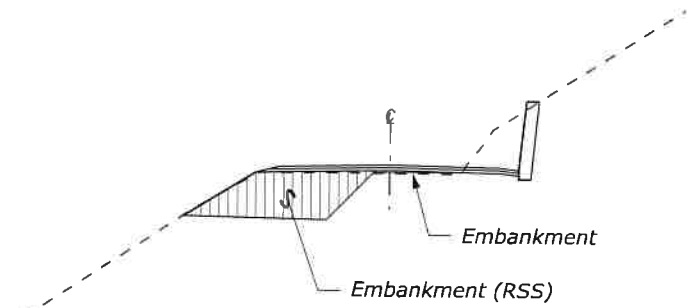
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

GRADING SUMMARY
Sheet 2 of 2

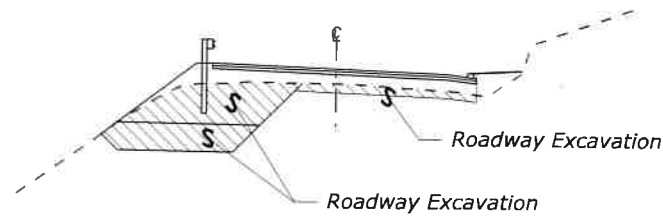
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	812



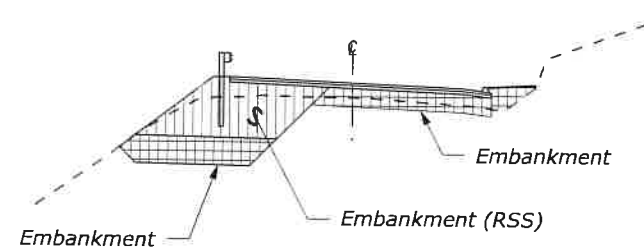
ROADWAY EXCAVATION



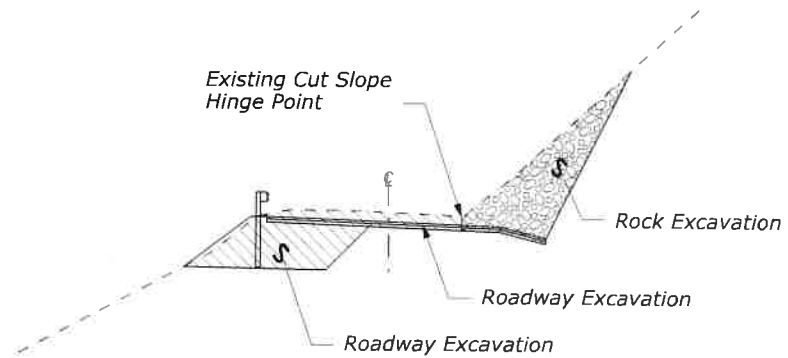
EMBANKMENT/EMBANKMENT (RSS)



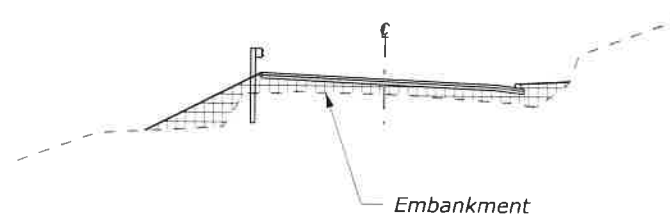
ROADWAY EXCAVATION



EMBANKMENT/EMBANKMENT (RSS)



ROCK EXCAVATION



EMBANKMENT

LEGEND

-  Roadway Excavation
(For information only)
-  Rock Excavation
(Pay Item No. 20421-0000)
-  Embankment/Backfill Material
(See Subsection 704.03(a))
(Pay Item No. 20420-0000)
-  Embankment (RSS)
(See Subsection 704.03(b))
(Pay Item No. 20420-0000)



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U.S. DEPARTMENT OF TRANSPORTATION
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**SCHEDULE A
EARTHWORK
REPRESENTATIONS**

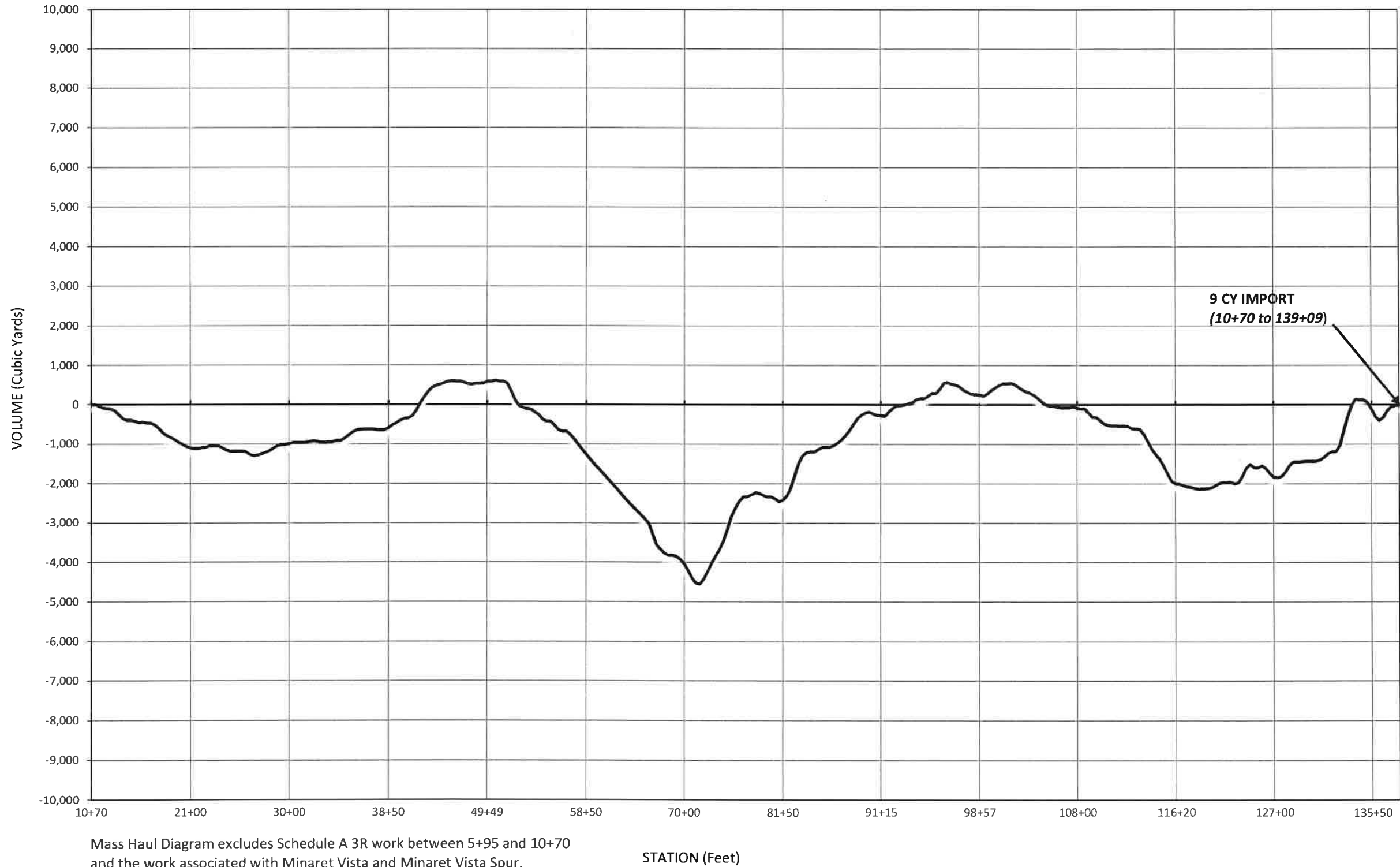
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3/26/2021

MASS HAUL DIAGRAM - SCHEDULE A

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03511(1)	B13



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FEDERAL HIGHWAY ADMINISTRATION
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MASS HAUL DIAGRAM

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B14

SURFACING SUMMARY - SCHEDULE A											
Item Number		30101-0000	30401-5300	30402-5300	41105-0000	40101-5600	40105-3000	40601-0000	41101-0000	41201-0000	
Station to Station	Side	AGGREGATE BASE	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	BLOTTER	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH OR 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL	ANTISTRIIP ADDITIVE, TYPE 3	FOG SEAL	PRIME COAT	TACK COAT	Remarks
		TON	MILE	SY	TON	TON	TON	TON	TON	TON	
MINARET VISTA											
200+27 to 214+00		2	0.3		23	505	5.0	2	4	1.3	
Parking Area		10		1278	9	209	2.1	1	2	0.5	
MINARET VISTA SPUR											
300+18 to 302+69			0.05		3	73	0.7	0.2	1	0.2	
REDS MEADOW ROAD											
5+95 to 10+70		192	0.1		15	338	3.4	1	2	0.9	
10+70 to 139+00		8792			283	6269	62.7	21	54	16	
TOTAL		8997	0.4	1278	334	7394	74	24.3	63.1	19.4	

SURFACING SUMMARY - OPTION X											
Item Number	30101-0000	30401-5300	30402-5300	41105-0000	40101-5600	40105-3000	40601-0000	41101-0000	41201-0000	64631-0000	
Station to Station	AGGREGATE BASE	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	FULL DEPTH RECLAMATION, METHOD 2, 6-INCH DEPTH	BLOTTER	ASPHALT CONCRETE PAVEMENT, GYRATORY MIX, 1/2-INCH OR 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL	ANTISTRIIP ADDITIVE, TYPE 3	FOG SEAL	PRIME COAT	TACK COAT	ROADSIDE DEVELOPMENT	Remarks
	TON	MILE	SQYD	TON	TON	TON	TON	TON	TON	LNFT	
REDS MEADOW ROAD											
496+70 to 713+10	785	4.1		390.1	8641	86.4	28.4	74.9	22.7		
713+10 to 725+30	742			22.0	487	4.9	1.6	4.2	1.3		
725+30 to 801+00	196	1.4		134.6	2982	29.8	9.8	25.8	7.8		
731+52 to 733+52	124										
733+52 to 734+59	83										
770+07 to 772+47	135										
772+47 to 774+00	56										
BUS STOP #1			288	2.1	47.1	0.5	0.2	0.4	0.1		
BUS STOP #2			370	2.7	60.4	0.6	0.2	0.5	0.2		
BUS STOP #3			390	2.9	63.6	0.6	0.2	0.6	0.2		
PUMICE FLAT DWY			161	1.2	26.4	0.3	0.1	0.2	0.1		
BUS STOP #4			1048	7.7	171.3	1.7	0.6	1.5	0.4		
651+56 to 652+00			55	0.4	9.0	0.1	0.0	0.1	0.0		
			28	0.2	4.6	0.0	0.0	0.0	0.0		
BUS STOP #5			606	4.5	99.0	1.0	0.3	0.9	0.3		
BUS STOP #6			350	2.6	57.1	0.6	0.2	0.5	0.2		
BUS STOP #7			440	3.2	71.8	0.7	0.2	0.6	0.2		
BUS STOP #8			421	3.1	68.8	0.7	0.2	0.6	0.2		
BUS STOP #9			301	2.2	49.2	0.5	0.2	0.4	0.1		
REDS MEADOW RESORT			1753	12.9	286.4	2.9	0.9	2.5	0.8		
579+40										80	Trail at Starkweather Lake
APPROACH ROADS	48										
TOTAL	2169	5.5	6212	593	13125	131	43	114	34	80	

VALUES USED FOR ESTIMATING QUANTITIES

Aggregate Base Unit Weight: 139.0 pounds per cubic foot
Asphalt Concrete: 145.2 pounds per cubic foot
Antistrip Additive, Type 3: 1.0% by weight of mix
Fog Seal: 0.125 gallons per square yard (233 gallons per ton)
Prime Coat: 0.33 gallons per square yard (233 gallons per ton)
Blotter: 14.75 pounds per square yard
Tack Coat: 0.10 gallons per square yard (233 gallons per ton)



U.S. DEPARTMENT OF TRANSPORTATION
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SURFACING SUMMARY

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9/7/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B15

DRAINAGE SUMMARY - SCHEDULE A													
Item Number		25101-0200	25101-0300	25302-1000	60201-0600	60201-0800	60201-1000	60210-0800	60210-1000	60403-0000	60404-0000	60501-0000	63308-0000
Station to Station	Side	PLACED RIPRAP, METHOD A, CLASS 2	PLACED RIPRAP, METHOD A, CLASS 3	GABIONS, GALVANIZED OR ALUMINIZED COATED	18-INCH PIPE CULVERT	24-INCH PIPE CULVERT	36-INCH PIPE CULVERT	END SECTION FOR 24-INCH PIPE CULVERT	END SECTION FOR 36-INCH PIPE CULVERT	INLET	CATCH BASIN	STANDARD UNDERDRAIN SYSTEM	OBJECT MARKER
		CUYD	CUYD	CUYD	LNFT	LNFT	LNFT	EACH	EACH	EACH	EACH	LNFT	EACH
9+42	LT				55						1		2
11+42	LT	4				49					1		2
16+49	LT			9		35					1		2
27+82	RT			7		33				1			1
29+31	LT	4				36		1		1			1
33+69	RT					5				1			
33+69	LT			8		32				1			1
38+04	LT	4				41					1		2
40+45	RT	4				44		1			1		2
45+84	LT			3		36					1		2
47+98	LT	4				35					1		2
48+23	LT			11		30				1			1
50+52	RT	17				40		1			1		2
51+32	LT	19				36		1		1			2
52+67	LT	13				34		1			1		2
54+20	LT	8				43		1			1		2
60+47	RT					5				1			
60+47	LT	4				30		1		1			1
63+43	LT			3		30				1			1
67+22	RT					5				1			1
67+22	LT			16		32				1			1
67+92	LT			6		32				1			1
71+21	RT					5				1			1
71+21	LT	11				30		1		1			1

Note:

1. Install Object Marker adjacent to culvert inlet and outlet. See V Series for detail.



09/06/2022

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FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

DRAINAGE SUMMARY

Sheet 1 of 4

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3/26/2021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B16

DRAINAGE SUMMARY - SCHEDULE A													
Item Number		25101-0200	25101-0300	25302-1000	60201-0600	60201-0800	60201-1000	60210-0800	60210-1000	60403-0000	60404-0000	60501-0000	63308-0000
Station to Station	Side	PLACED RIPRAP, METHOD A, CLASS 2	PLACED RIPRAP, METHOD A, CLASS 3	GABIONS, GALVANIZED OR ALUMINIZED COATED	18-INCH PIPE CULVERT	24-INCH PIPE CULVERT	36-INCH PIPE CULVERT	END SECTION FOR 24-INCH PIPE CULVERT	END SECTION FOR 36-INCH PIPE CULVERT	INLET	CATCH BASIN	STANDARD UNDERDRAIN SYSTEM	OBJECT MARKER
		CUYD	CUYD	CUYD	LNFT	LNFT	LNFT	EACH	EACH	EACH	EACH	LNFT	EACH
86+36	LT	4				38		1			1		2
90+10	RT	4				35				1			2
92+30	LT			3		41					1		2
94+59	LT			7		33				1			2
96+89	LT			10		35				1			2
99+18	LT			16		38					1		2
104+87	RT	4				38					1		2
109+90	LT	4				43		1					2
112+12	LT			6		38				1			2
115+20	LT	9				47		1			1		2
119+62	RT					5				1			
119+62	LT			4		32				1			1
121+82	LT	13				37		1			1		2
124+42	LT	23				34		1		1			2
129+66	RT	4				32				1			2
133+04	LT			4		40					1		2
133+27	LT			4		40					1		2
137+78	RT	47											1
137+78	LT		16				46		2				1
105+00 to 109+70	RT											470	
122+00 to 124+40	RT											240	
TOTAL		210	16	115	55	1393	46	14	2	22	20	710	70

Note:
1. Install Object Marker adjacent to culvert inlet and outlet. See V Series for detail.



03/26/2021

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

DRAINAGE SUMMARY

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STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B17

DRAINAGE - OPTION X																		
Item Number	60103-0660	60201-0400	60201-0500	60201-0600	60201-0800	60201-1000	60202-0700	60210-0400	60210-0500	60210-0600	60210-0800	60210-1000	60211-1000	60211-1100	60404-0000	60501-0000	60704-0000	63308-0000
Station to Station	CONCRETE, HEADWALL FOR DOUBLE 36-INCH PIPE CULVERT	12-INCH PIPE CULVERT	15-INCH PIPE CULVERT	18-INCH PIPE CULVERT	24-INCH PIPE CULVERT	36-INCH PIPE CULVERT	42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	END SECTION FOR 12-INCH PIPE CULVERT	END SECTION FOR 15-INCH PIPE CULVERT	END SECTION FOR 18-INCH PIPE CULVERT	END SECTION FOR 24-INCH PIPE CULVERT	END SECTION FOR 36-INCH PIPE CULVERT	END SECTION FOR 36-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	END SECTION FOR 42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	CATCH BASIN	STANDARD UNDERDRAIN SYSTEM	CLEANING CULVERT IN PLACE	OBJECT MARKER
	EACH	LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LNFT	EACH	EACH
506+00					36							2						2
511+70																	1	2
515+50					41							2						2
517+30				37							2							2
518+10																	1	2
521+40				48							2							2
524+00				40							2							2
534+20					35							2						2
535+00				46							2							2
539+50				39							2							2
545+10				41							2							2
549+80			44						2									2
550+90				41							2							2
551+90																	1	2
555+20																	1	2
556+50					39							2						2
563+00					40							2						2
564+20						40							2					2
573+90					35							2						2
579+80					30							1			1			2
590+00				120							4							2
596+00					35							2						2
596+20				38							1							2
598+70						51							2					2
604+00					54							1						2
608+50					84							4						2

Note:
1. Install Object Marker adjacent to culvert inlet and outlet. See V Series for detail.



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

DRAINAGE SUMMARY
Sheet 3 of 4

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7/29/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B18

DRAINAGE - OPTION X																		
Item Number	60103-0660	60201-0400	60201-0500	60201-0600	60201-0800	60201-1000	60202-0700	60210-0400	60210-0500	60210-0600	60210-0800	60210-1000	60211-1000	60211-1100	60404-0000	60501-0000	60704-0000	63308-0000
Station to Station	CONCRETE, HEADWALL FOR DOUBLE 36-INCH PIPE CULVERT	12-INCH PIPE CULVERT	15-INCH PIPE CULVERT	18-INCH PIPE CULVERT	24-INCH PIPE CULVERT	36-INCH PIPE CULVERT	42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	END SECTION FOR 12-INCH PIPE CULVERT	END SECTION FOR 15-INCH PIPE CULVERT	END SECTION FOR 18-INCH PIPE CULVERT	END SECTION FOR 24-INCH PIPE CULVERT	END SECTION FOR 36-INCH PIPE CULVERT	END SECTION FOR 36-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	END SECTION FOR 42-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT	CATCH BASIN	STANDARD UNDERDRAIN SYSTEM	CLEANING CULVERT IN PLACE	OBJECT MARKER
	EACH	LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LNFT	EACH	EACH
613+80 to 615+80																200		
617+00				34						2								2
620+50				34						2								2
624+00														2			1	2
636+00					46						2							2
652+00				52						2								2
658+20																	1	2
661+80							41							2				2
668+30																	1	2
669+30																	1	2
680+90					53						2							2
684+90					56						2							2
693+50			33						2									2
700+50		32						2										2
704+00		40						2										2
705+60					40						2							2
721+23				60						1					1			2
723+00					40						2							2
727+73				34						1					1			2
736+20		29								2								2
755+85		30						2										2
756+25 to 759+00																275		
760+50		31						2										2
761+80		30						1							1			2
763+50		35						1							1			2
772+00	2					72												2
785+60					38						2							2
795+60					40						1							2
	2	227	77	664	742	163	41	10	4	29	33	4	2	2	6	475	8	104

Note:

1. Install Object Marker adjacent to culvert inlet and outlet. See V Series for detail.



07/29/2022

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

DRAINAGE SUMMARY

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7/29/2022

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B19

EROSION CONTROL SUMMARY - SCHEDULE A					
Item Number		62405-0200	62510-2000	62901-1100	62901-1400
Station to Station	Side	PLACING CONSERVED TOPSOIL, 3-INCH DEPTH	SEEDING, HYDRAULIC METHOD	ROLLED EROSION CONTROL PRODUCT, TYPE 4	ROLLED EROSION CONTROL PRODUCT, TYPE 5.C (TURF REINFORCEMENT MAT)
		SQYD	ACRE	SQYD	SQYD
10+70 to 139+00		13497	8.0	11755	10971
Waste Area No. 1	LT	2485	0.5	621	
Waste Area No. 2	LT	650	0.1	163	
Waste Area No. 4	RT	1456	0.3	364	
Waste Area No. 5	RT	5758	1.2	1440	
TOTAL		23846	10.1	14342	10971

RIPRAP AND EROSION CONTROL SUMMARY - OPTION X						
Item Number		25101-0200	25101-0300	62405-0200	62510-2000	62901-1100
Station to Station	Side	PLACED RIPRAP, METHOD A, CLASS 2	PLACED RIPRAP, METHOD A, CLASS 3	PLACING CONSERVED TOPSOIL, 3-INCH DEPTH	SEEDING, HYDRAULIC METHOD	ROLLED EROSION CONTROL PRODUCT, TYPE 4
		CUYD	CUYD	SQYD	ACRE	SQYD
583+15 to 583+25	RT	2.7				
598+70	RT		17.0			
604+00	RT	3.9				
604+00 to 608+50	LT	90.0				
620+20	RT	7				
700+50	RT	0.9				
704+00	RT	1.0				
705+60	RT	3.9				
713+10 to 734+40				6208	1.3	6208
721+23	RT	2.0				
755+85	RT	0.9				
760+50	RT	0.9				
761+80	RT	0.9				
763+50	RT	2.2				
787+00	LT	2.7				
790+00	RT	2.7				
791+00	RT	3.6				
792+00	RT	3.6				
793+00	RT	3.6				
793+70	LT	2.7				
794+00	RT	3.6				
795+00	RT	3.6				
795+60	RT	3.9				
803+80	RT	2.7				
		149	17	6208	1.3	6208



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

EROSION CONTROL
SUMMARY

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B20

WALL SUMMARY - SCHEDULE A									
STATION TO STATION	SIDE	For info only	25902-0000	25903-0000	For info only	For info only	WALL CODE		
		SOIL NAIL	SOIL NAIL RETAINING WALL	VERIFICATION TEST NAIL	REINFORCED SHOTCRETE, 4-INCH DEPTH	REINFORCED SHOTCRETE, 12-INCH DEPTH			
		LNFT	SQFT	EACH	SQYD	SQYD			
24+10.00 to 29+45.25	Rt	1,672	3,628	3	356	404	27		
31+15.00 to 37+24.53	Rt	2,298	5,022	2	453	558	34		
47+00.00 to 48+84.26	Rt	697	1,408	1	122	157	48		
49+56.00 to 50+33.83	Rt	187	455	1	45	51	50		
55+05.00 to 68+53.62	Rt	6,664	9,053	4	861	1,006	62		
84+45.00 to 85+50.14	Rt	394	827	1	80	92	85		
91+20.00 to 92+13.97	Rt	338	672	1	68	75	92		
92+35.00 to 92+88.18	Rt	121	287	1	29	32	93		
94+70.00 to 95+26.18	Rt	520	515	1	54	58	95		
98+56.00 to 99+01.54	Rt	205	248	1	25	28	99		
99+26.00 to 101+51.59	Rt	1,330	1,732	1	170	193	100		
110+10.00 to 111+85.65	Rt	583	1,134	1	113	126	111		
116+30.00 to 121+32.94	Rt	1,958	3,871	1	377	431	119		
130+25.00 to 132+16.15	Rt	715	1,245	2	122	139	131		
TOTAL		17,682	30,097	21	2,875	3,350			



03/25/2021



03/26/2021

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

WALL SUMMARY

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3/26/2021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B21

PERMANENT PAVEMENT MARKINGS SUMMARY - SCHEDULE A											
Station to Station		Item Number					63402-0300	63405-0050	63315-0000	Remarks	
		LEFT		RIGHT				PAVEMENT MARKINGS, TYPE B, SOLID	PAVEMENT MARKINGS, SYMBOLS		RUMBLE STRIP
		Edge Solid White 6 inches	Centerline Solid Yellow 4 inches	Edge Solid White 6 inches	Centerline Solid Yellow 4 inches	Stop Bar Solid White 12 inches	Parking Stripe Solid White 4 inches				
		LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	MILE	EACH	SQYD	
MINARET VISTA											
200+40						18		0.003			
200+50									1		STOP
200+34	214+02	1358		1428				0.53			
Minaret Vista Loop Parking							895	0.17	4		Parking Stalls, No Parking Pattern, ADA Parking Symbol, Arrows
MINARET VISTA SPUR											
302+42									2		STOP, Arrow
302+50						36		0.007			
REDS MEADOW ROAD											
5+95	8+13		304		304			0.12			Includes Buffer Striping
7+24	8+12			88				0.02			
8+05									1		Right Turn Arrow
9+06						14		0.003			
9+23						14		0.003			
10+00	11+00									62	
5+95	139+10	13348		13291				5.05			
8+62	11+19		508		508			0.19			Includes Buffer Striping
11+19	139+10		12791		12791			4.85			
SUBTOTAL								10.93	8	62	
TOTAL								21.9	16	62	Two coats of pavement markings



03/26/2021

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

PERMANENT PAVEMENT
MARKINGS SUMMARY

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3/26/2021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B22

PERMANENT PAVEMENT MARKINGS SUMMARY - OPTION X												
Station to Station			Item Number					63402-0300	63405-0050	Remarks		
			LEFT		RIGHT		Stop Bar Solid White 12 inches	Parking Stripe Solid White 4 inches	Crosswalk Solid White 12 inches		PAVEMENT MARKINGS, TYPE B, SOLID	PAVEMENT MARKINGS, SYMBOLS
			Edge Solid White 6 inches	Centerline Solid Yellow 4 inches	Edge Solid White 6 inches	Centerline Solid Yellow 4 inches						
			LNFT	LNFT	LNFT	LNFT	LNFT	LNFT	MILE	EACH		
REDS MEADOW ROAD												
496+70	to	801+00	30430	30430	30430	30430			23.05			
506+54	to	506+89					46		0.01		Stop Bar	
506+67	Rt.									1	STOP	
506+71	to	506+91						43	0.01		Crosswalk	
506+80	Rt.									1	NO PARKING	
506+84	to	506+98						35	0.01		Crosswalk	
517+19	to	517+32						25	0.005		Crosswalk	
517+31	to	517+45						25	0.005		Crosswalk	
578+15	Rt.									1	BUS	
578+25	Rt.									1	ONLY	
578+45	Rt.									1	NO PARKING	
578+70	Rt.									1	ONLY	
578+80	Rt.									1	BUS	
579+26								22	0.004		Crosswalk	
579+37								22	0.004		Crosswalk	
629+52	to	629+72					32		0.01		Stop Bar	
629+56	Rt.									1	STOP	
629+88	Rt.									1	NO PARKING	
637+03	to	637+20					18		0.003		Stop Bar	
637+08	Rt.									1	STOP	
PUMICE FLAT CAMPGROUND PARKING								239	0.05		Parking Stripes	
648+69	Rt.									1	NO PARKING	
648+79	Lt.									1	NO PARKING	
651+70	to	651+82					12		0.002		Stop Bar	
651+78	Lt.									1	STOP	
684+76	Rt.									1	NO PARKING	
685+09	Rt.									1	BUS	
685+29	Rt.									1	ONLY	
685+39	Rt.									1	NO PARKING	
685+60	to	685+78					22		0.004		Stop Bar	
685+68	Rt.									1	STOP	



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

**PERMANENT PAVEMENT
MARKINGS SUMMARY**

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3/26/2021

PERMANENT SIGN SUMMARY - SCHEDULE A								
Station	Side	MUTCD Reference	Description	Item Number	20301-2400	63301-0000	63302-0000	Remarks
				Sign Panel	REMOVAL OF SIGN	SIGN SYSTEM	SIGN SYSTEM (SPECIAL SIGNS)	
				In x In	EACH	EACH	SQFT	
8+00	Rt.	Special 25	NO SHOOTING AREA Mono County Ord.10.64 Town of Mammoth Lakes Ord.9.08	72 x 24	1		12.0	Special Sign
9+00	Rt.	Special 23	Road Not Plowed Subject To Storm Closure Closure May Be Winter Long	81 x 31	1		17.5	Share post, Special Sign
9+00	Rt.	Special 24	All Aspects of Vehicle Removal Rests with Vehicle Owner	90 x 22			13.8	Share post, Special Sign
9+00	Lt.	R1-1	Stop	30 x 30	1	1		Sign facing West. Share post
9+00	Lt.	R5-1	Do Not Enter	30 x 30				Sign facing East. Share post
9+20	Rt.	R1-1	Stop	30 x 30	1	1		
11+00	Rt.	Special 21	Entering Wildlife Area Proceed with Caution	60 x 18	1		7.5	Special Sign
10+00	Rt.		Speed Limit and Do Not Pass		1			
9+70	Rt.	Special 27	Return to Shuttle Bus	24 x 60	1		10	
10+50	Rt.	Special 26	In Line Skates Skateboards and Similar Devices Prohibited	36x57			14.3	
10+50	Rt.		One Lane Road with Turnouts - Please Drive Carefully and In Line Skates		1			
11+50	Rt.		Narrow Steep Road		1			
11+80	Mid.	R11-2	Road Closed	30 x 24		4		Mount on Gate, See T Series for Gate Details
11+80	Mid.	OM3-R	Type P Marker	36 x 12		2		Mount on Gate, See T Series for Gate Details
11+80	Mid.	OM3-L	Type P Marker	36 x 12		2		Mount on Gate, See T Series for Gate Details
11+80	Mid.	OM2-2V	Type 2 Object Marker	6 x 12		10		Mount on Gate, See T Series for Gate Details
12+80	Rt.	R2-1	Speed Limit	24 x 30		1		15 mph
12+98	Lt.	Special 1	Fee Station Ahead - All Vehicles Must Stop	30 x 36	1		7.5	Special Sign
12+98	Rt.		Yield to Uphill Traffic	30 x 30	1			
18+00	Rt.	W1-2R	Advisory Curve and Advisory Speed	30 x 30	1			
20+00	Rt.	W1-1R	Advisory Curve	30 x 30		1		
37+79	Rt.	Special 2	Bicycles Permitted on Roads Only - Trail Riding Prohibited (26 CFR 261156)	78 x 30	1		16.3	Special Sign
75+00	Both	W11-3	Deer	30 x 30		2		
77+50	Rt.	R2-1	Speed Limit	24 x 30		1		15 mph
77+50	Rt.		Speed Limit and Do Not Pass		1			
78+50	Lt.	R2-1	Speed Limit	24 x 30		1		15 mph
78+50	Lt.		Speed Limit and Do Not Pass		1			
79+50	Rt.		Yield to Uphill Traffic		1			
92+60	Rt.	W8-14	Falling Rocks	30 x 30	1	1		
106+20	Rt.	R2-1	Speed Limit	24 x 30		1		15 mph
106+20	Rt.		Speed Limit and Do Not Pass		1			
116+50	Lt.	R2-1	Speed Limit	24 x 30		1		15 mph
116+50	Lt.		Speed Limit and Do Not Pass		1			
137+54	Lt.		One Lane Road with Turnouts - Please Drive Carefully		1			
139+00	Both	W11-3	Deer	30 x 30		2		
Minaret Vista Road								
200+40	Lt.	R1-1	Stop	30 x 30	1	1		
203+00	Lt.	R1-1	Stop	30 x 30	1	1		Sign facing South. Share post
203+00	Lt.	R5-1	Do Not Enter	30 x 30				Sign facing North. Share post
203+40	Rt.	Special 22	<-- Minaret Vista 1/4 Mammoth 5 1/2 -->	72 x 24	1		12.0	Special Sign
203+75	Lt.	R5-1	Do Not Enter	30 x 30	1	1		
215+20	Rt.	R7-8	Reserved Parking	12 x 18		1		
215+20	Rt.	R7-8P	Van Accessible	18 x 9				
215+40	Rt.	R7-8	Reserved Parking	12 x 18		1		
TOTALS					24	36	111	

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B24



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

PERMANENT SIGN SUMMARY

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3/26/2021

PERMANENT SIGN SUMMARY - OPTION X								
				Item Number	20301-2400	63301-0000	63302-0000	Remarks
Station	Side	MUTCD Reference	Description	Sign Panel	REMOVAL OF SIGN	SIGN SYSTEM	SIGN SYSTEM (SPECIAL SIGNS)	
				in x in	EACH	EACH	SQFT	
498+20	Lt.	R2- 1	Speed Limit	24 x 30	1	1		15 mph
498+20	Lt.	R4- 1	Do Not Pass	24 x 30	1			
498+20	Rt.	R2- 1	Speed Limit	24 x 30	1	1		25 mph
498+50	Lt.		Elevation 8425 FT	Unknown		1		
503+30	Rt.	Special 3	Camping and Fires Permitted in Open Campgrounds Only	48 x 24	1		8.0	Special Sign
505+00	Lt.	R2- 1	Speed Limit	24 x 30	1			
505+00	Lt.	R4- 1	Do Not Pass	24 x 30	1			
504+70	Rt.	Special 4	Bear Habitat Proper Food Storage Required by Law 36 CFR 261.58(cc)	60 x 28			11.7	Special Sign
505+78	Rt.	W11-2	Pedestrian	30 x 30		1		
505+78	Rt.	W16- 9P	Ahead (plaque)	24 x 12				
506+00	Rt.	Special 4	Bear Habitat Proper Food Storage Required by Law 36 CFR 261.58(cc)	60 x 28	1			Special Sign
506+75	Rt.	R1- 1	Stop	30 x 30	1	1		
506+90	Rt.	Special 5	Agnew Meadows Trailheads, Campgrounds --> & Pack Station	112 x 34	1		26.4	Special Sign
506+91	Rt.	W11-2	Pedestrian	30 x 30		1		
506+91	Rt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
507+00	Lt.	W11-2	Pedestrian	30 x 30		1		
507+00	Lt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
507+20	Rt.	Special 6	<-- Pumice Flat Devils Postpile Reds Meadow Resort & Pack Station	90 x 40	1		25.0	Special Sign
509+50	Lt.	W11-2	Pedestrian	30 x 30		1		
509+50	Lt.	W16- 9P	Ahead (plaque)	24 x 12				
515+00	Rt.	W11-2	Pedestrian	30 x 30		1		
515+00	Rt.	W16- 9P	Ahead (plaque)	24 x 12				
517+10	Rt.	W11-2	Pedestrian	30 x 30	1	1		
517+10	Rt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
517+55	Lt.	W11-2	Pedestrian	30 x 30		1		
517+55	Lt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
520+00	Lt.	W11-2	Pedestrian	30 x 30	1	1		
520+00	Lt.	W16- 9P	Ahead (plaque)	24 x 12				
523+60	Rt.	W1- 1R	Turn Right	30 x 30	1	1		
527+00	Lt.	W1- 1L	Turn Left	30 x 30	1	1		
576+50	Rt.	R2- 1	Speed Limit	24 x 30	1	1		25 mph
578+40	Rt.	W11-2	Pedestrian	30 x 30	1			
579+20	Rt.	W11-2	Pedestrian	30 x 30		1		
579+20	Rt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
579+50	Lt.	W11-2	Pedestrian	30 x 30		1		
579+50	Lt.	W16- 7PL	Left Diagonal Arrow (plaque)	24 x 12				
586+50	Lt.	W11-2	Pedestrian	30 x 30	1			

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B25



03/26/2021

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

PERMANENT SIGN SUMMARY

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3/26/2021

PERMANENT SIGN SUMMARY - OPTION X								
Station	Side	MUTCD Reference	Description	Item Number	20301-2400	63301-0000	63302-0000	Remarks
				Sign Panel	REMOVAL OF SIGN	SIGN SYSTEM	SIGN SYSTEM (SPECIAL SIGNS)	
				in x in	EACH	EACH	SQFT	
628+00	Rt.	Special 7	Upper Soda Springs CG -->	60 x 24	1		10.0	Special Sign
629+70	Rt.	R1-1	Stop	30 x 30	1	1		
631+00	Lt.	Special 8	Upper Soda <-- Springs CG	60 x 24	1		10.0	Special Sign
635+50	Rt.	Special 9	Pumice Flat CG -->	45 x 24	1		7.5	Special Sign
637+25	Rt.	R1-1	Stop	30 x 30	1	1		
637+80	Rt.	Special 10	Pumice Flat Group CG ^	61 x 24	1		10.2	Special Sign
637+80	Lt.	R2-1	Speed Limit	24 x 30	1	1		25 mph
638+35	Lt.	Special 11	Pumice <-- Flat CG	45 x 24	1		7.5	Special Sign
647+80	Rt.	Special 12	Pumice <-- Amphitheatre	68 x 24	1		11.3	Special Sign
651+20	Rt.	Special 13	Pumice Flat <-- Group CG	61 x 24	1		10.2	Special Sign
651+60	Lt.	R1-1	Stop	30 x 30	1	1		
654+20	Lt.	R7-1	No Parking	12 x 18	1			
683+80	Rt.	W1-1L	Turn Left	30 x 30	1	1		
683+80	Rt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
685+40	Rt.	Special 14	Minaret <-- Falls CG	45 x 24	1		7.5	Special Sign
685+83	Rt.	R1-1	Stop	30 x 30	1	1		
689+00	Lt.	W1-1R	Turn Right	30 x 30	1	1		
689+00	Lt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
712+60	Rt.	W1-1L	Turn Left	30 x 30	1	1		
712+60	Rt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
714+11	Rt.	Special 15	Devil's Postpile Turnoff 500 Feet --> Devils Postpile National Monument Road Max Vechile Length 25 Feet	96 x 36	1		24.0	Special Sign
714+70	Rt.	W2-2R	Side Road Right	30 x 30	1	1		
717+15	Rt.	Special 16	Devil's Postpile (Camping, Hiking, Picnic)	52 x 32			11.6	Special Sign
718+53	Rt.	Special 17	<-- Sotcher Lake Reds Meadow Campground Resort & Pack Station	93 x 40			25.8	Special Sign
719+58	Rt.	Special 16	Devil's Postpile (Camping, Hiking, Picnic)	52 x 32	1			Special Sign
719+66	Rt.	R1-1	Stop	30 x 30	1	1		
719+73	Rt.	W1-3L	Left Reverse Turn	30 x 30	1	1		
719+73	Rt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
719+86	Rt.	Special 17	<-- Sotcher Lake Reds Meadow Campground Resort & Pack Station	93 x 40	1			Special Sign
719+86	Rt.	Special 18	<-- Devil's Postpile	60 x 12	1			Special Sign
721+37	Lt.	Special 18	<-- Devil's Postpile	60 x 12			5.0	Special Sign
723+00	Lt.	W2-2L	Side Road Left	30 x 30	1	1		
724+50	Lt.	R2-1	Speed Limit	24 x 30	1			15 mph
725+50	Lt.	W1-3L	Left Reverse Turn	30 x 30	1	1		
725+50	Lt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
731+50	Rt.	W1-3L	Left Reverse Turn	30 x 30	1	1		
731+50	Rt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph
734+72	Lt.	W1-3L	Left Reverse Turn	30 x 30	1	1		
734+72	Lt.	W13-1P	Advisory Speed (plaque)	18 x 18	1			15 mph

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B26



03/26/2021

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

PERMANENT SIGN SUMMARY

Sheet 3 of 4

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3/26/2021

PERMANENT SIGN SUMMARY - OPTION X								
Station	Side	MUTCD Reference	Description	Item Number	20301-2400	63301-0000	63302-0000	Remarks
				Sign Panel	REMOVAL OF SIGN	SIGN SYSTEM	SIGN SYSTEM (SPECIAL SIGNS)	
				in x in	EACH	EACH	SQFT	
768+80	Lt.	R2-1	Speed Limit	24 x 30	1	1		25 mph
769+23	Lt.	R1-1	Stop	30 x 30	1	1		
769+80	Lt.	Special 19	<-- Reds Meadow Campground Rainbow Falls Trailhead --> Resort & Pack Station -->	75 x 18	1		9.4	Special Sign
770+30	Rt.	W11-2	Pedestrian	30 x 30		1		
770+30	Rt.	W16-9P	Ahead (plaque)	24 x 12				
772+20	Rt.	W11-2	Pedestrian	30 x 30		1		
772+20	Rt.	W16-7PL	Left Diagonal Arrow (plaque)	24 x 12				
772+70	Lt.	W11-2	Pedestrian	30 x 30		1		
772+70	Lt.	W16-7PL	Left Diagonal Arrow (plaque)	24 x 12				
774+70	Lt.	W11-2	Pedestrian	30 x 30		1		
774+70	Lt.	W16-9P	Ahead (plaque)	24 x 12				
786+65	Lt.	R2-1	Speed Limit	24 x 30	1	1		25 mph
786+92	Rt.	Special 20	^ Reds Meadow Resort Rainbow Falls Trailhead -->	88 x 36			22.0	Special Sign
787+50	Rt.	Special 20	^ Reds Meadow Resort Rainbow Falls Trailhead -->	88 x 36	1			Special Sign
787+92	Rt.	W11-2	Pedestrian	30 x 30		1		
787+92	Rt.	W16-9P	Ahead (plaque)	24 x 12				
788+70	Rt.	R1-1	Stop	30 x 30	1			
789+46	Rt.	R1-1	Stop	30 x 30	1	1		
789+50	Rt.	W11-2	Pedestrian	30 x 30		1		
789+50	Rt.	W16-7PL	Left Diagonal Arrow (plaque)	24 x 12				
789+70	Lt.	W11-2	Pedestrian	30 x 30		1		
789+70	Lt.	W16-7PL	Left Diagonal Arrow (plaque)	24 x 12				
TOTALS					60	43	243	

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B27



03/26/2021

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

PERMANENT SIGN
SUMMARY

Sheet 4 of 4

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	B28

MISCELLANEOUS SUMMARY - SCHEDULE A								
Item Number		60901-2300	50101-0600	61701-4500	61702-1500	61902-0900	63318-1000	
Station to Station	Side	CURB, ASPHALT, 6-INCH DEPTH	MINOR CONCRETE PAVEMENT, REINFORCED, 6-INCH DEPTH	GUARDRAIL SYSTEM MGS, TYPE 2, CLASS A STEEL POSTS	TERMINAL SECTION, TYPE MGS TANGENT	GATE, METAL	SNOW POLE HOLDER	Remarks
		LNFT	SQYD	LNFT	EACH	EACH		
11+40 to 15+15	RT	375						
11+75	BOTH					1		
16+50 to 24+10	RT	760						
29+45 to 31+15	RT	170						
37+25 to 38+10	RT	85						
40+50 to 41+31	RT	81						
48+84 to 49+56	RT	72						
50+33 to 55+05	RT	472						
68+54 to 80+25	RT	1171						
85+50 to 86+34	RT	84						
90+00 to 91+20	RT	120						
92+88 to 94+70	RT	182						
96+75 to 98+56	RT	181						
101+51 to 110+10	RT	859						
111+86 to 114+00	RT	214						
115+21 to 116+30	RT	109						
121+33 to 130+25	RT	892						
134+97 to 136+69	RT	172						
20+48 to 25+43	LT			462.5	2			
38+01 to 40+43	LT			200.0	2			
72+55 to 75+57	LT			262.5	2			
89+30 to 102+40	LT			1262.5	2			
106+35 to 109+61	LT			287.5	2			
122+21 to 126+63	LT			400.0	2			
132+44 to 136+32	LT			350.0	2			
Project Wide							42	As directed by CO.
Minaret Vista			1					
TOTAL		5999	1	3225.0	14	1	42	

MISCELLANEOUS SUMMARY - OPTION X						
Item Number		30301-1000	60901-2300	61102-1545	63503-1000	
Station to Station	Side	DITCH RECONDITIONING	CURB, ASPHALT, 6-INCH DEPTH	2-INCH WATERLINE	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	Remarks
		MILE	LNFT	LNFT	LNFT	
648+60 to 649+05	LT		45			
713+10 to 722+72	LT		962			
732+00 to 733+30	LT		130			
733+30 to 734+40	RT		110			
738+80 to 740+00	RT		120			
755+85	RT			30		
763+50	RT			30		
765+50 to 768+00	RT		250			
781+00 to 787+00	BOTH				1140	
786+98 to 797+05	LT		1007			
790+05 to 796+05	RT		600			
PACK STATION & RESORT			95			
496+70 to 805+58	BOTH	6				As directed by CO.
TOTAL		6	3319	60	1140	



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

MISCELLANEOUS SUMMARIES

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

Curve = C1
PI = 5+59.55
 $\Delta = 17^{\circ}06'17''$ (RT)
R = 300.00'
T = 45.12'
L = 89.56'

Curve = C2
PI = 10+05.32
 $\Delta = 93^{\circ}43'47''$ (LT)
R = 200.00'
T = 213.46'
L = 327.18'

Maintenance Vehicle
Pullout (Gravel)
See D Series

SPEED
LIMIT
15
R2-1

LEGEND

Pavement Transition
 Subexcavation

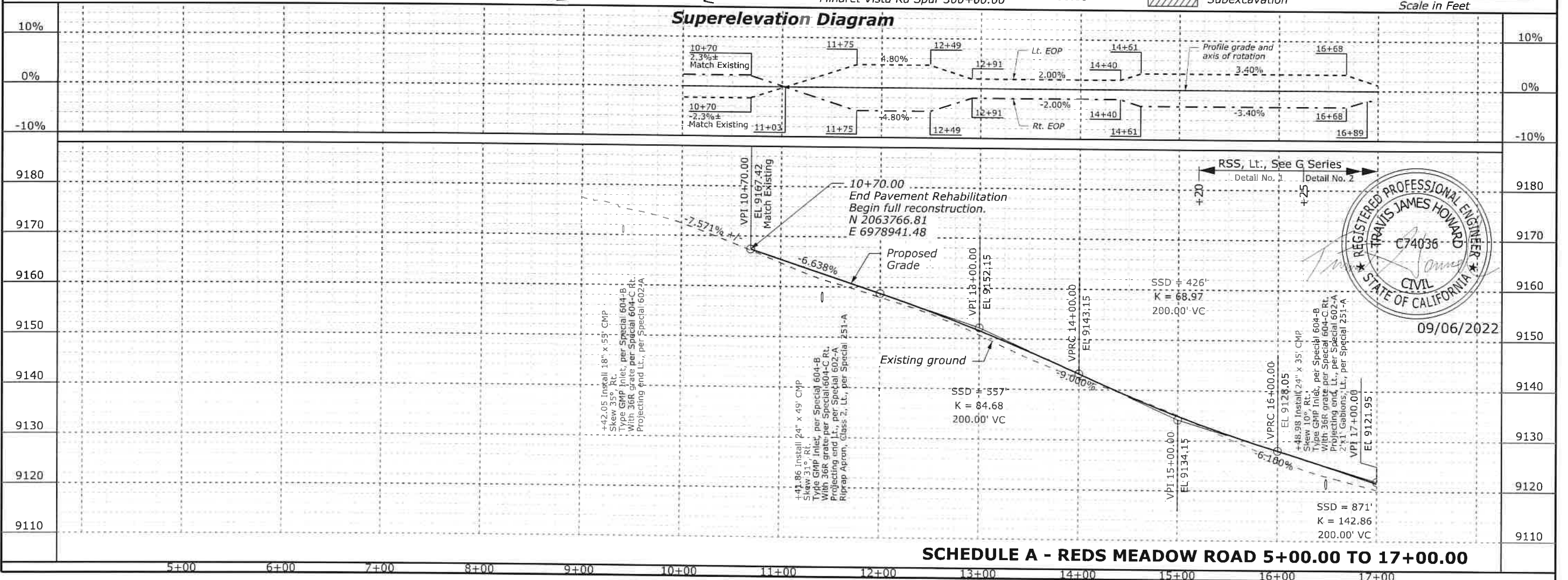
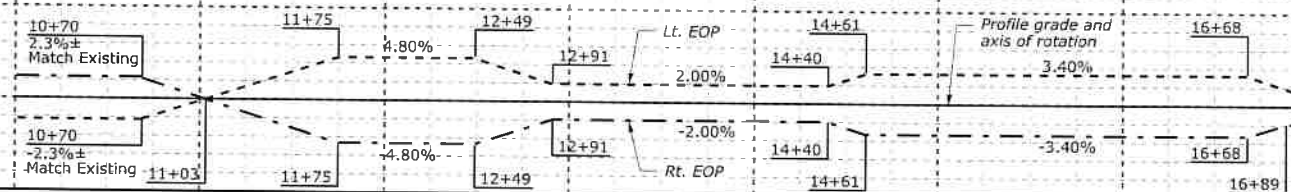
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	C1

- NOTES:**
1. Striping for Reds Meadow Road, includes two, Type B, Solid, 6" White Edge Lines and one, Type B, Solid, Double Yellow Centerline. Typical all C sheets. See D sheets for striping details at intersections.
 2. Install snow pole holders at the begin and end of each retaining wall and guardrail terminal systems. See V Series for details.
 3. See sheet D4 for additional conform details between Station 7+00 and 12+00.
 4. See sheet D2 for additional signing and striping details between 7+00 and 11+00.
 5. See sheet D1-D3 for details related to Minaret Vista Road and Minaret Vista Spur.
 6. Utility locations shown in the plans are schematic and not exact. Comply with FP-14 Section 107.02 for locating utilities prior to beginning work and protecting utilities from construction operations.
 7. Install object marker adjacent to each culvert inlet and outlet. See V Series for details.

N



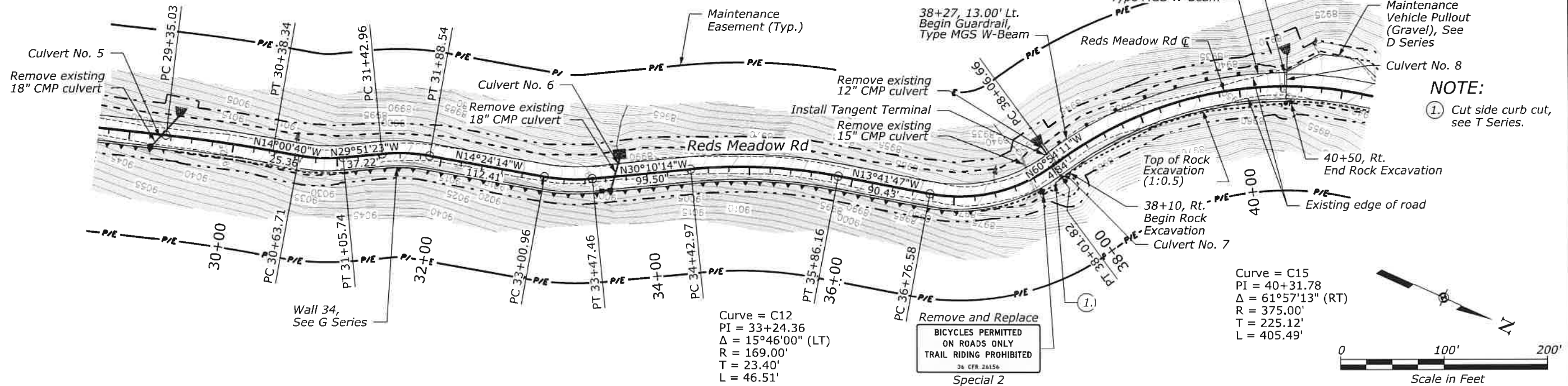
Superelevation Diagram



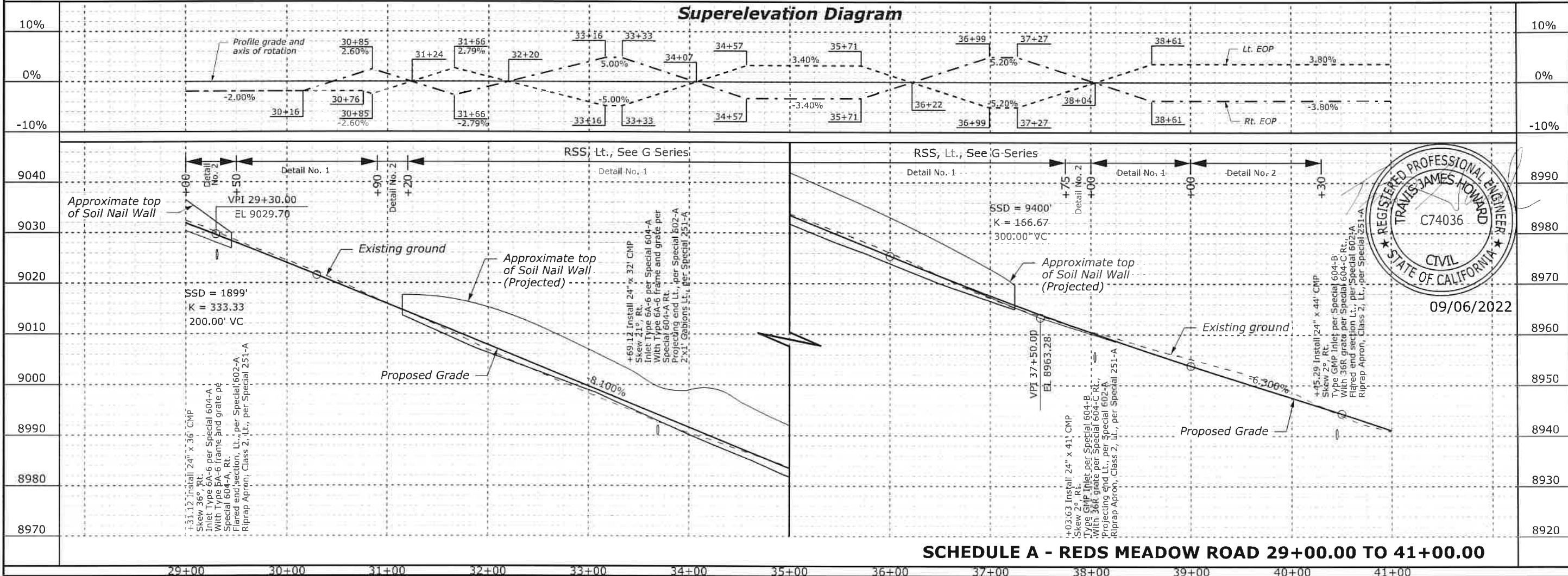
SCHEDULE A - REDS MEADOW ROAD 5+00.00 TO 17+00.00

Curve = C9 PI = 29+86.71 $\Delta = 3^\circ 44' 47''$ (RT) R = 1580.00' T = 51.67' L = 103.31'	Curve = C10 PI = 30+84.86 $\Delta = 15^\circ 50' 44''$ (LT) R = 152.00' T = 21.15' L = 42.04'	Curve = C11 PI = 31+65.89 $\Delta = 15^\circ 27' 09''$ (RT) R = 169.00' T = 22.93' L = 45.58'	Curve = C13 PI = 35+15.06 $\Delta = 16^\circ 28' 27''$ (RT) R = 498.00' T = 72.09' L = 143.19'	Curve = C14 PI = 37+43.00 $\Delta = 47^\circ 12' 24''$ (LT) R = 152.00' T = 66.42' L = 125.23'
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STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	C3



Superelevation Diagram



SCHEDULE A - REDS MEADOW ROAD 29+00.00 TO 41+00.00

Curve = C15
PI = 40+31.78
 $\Delta = 61^\circ 57' 13''$ (RT)
R = 375.00'
T = 225.12'
L = 405.49'

Curve = C16
PI = 46+07.57
 $\Delta = 19^\circ 30' 34''$ (RT)
R = 884.00'
T = 151.97'
L = 301.01'

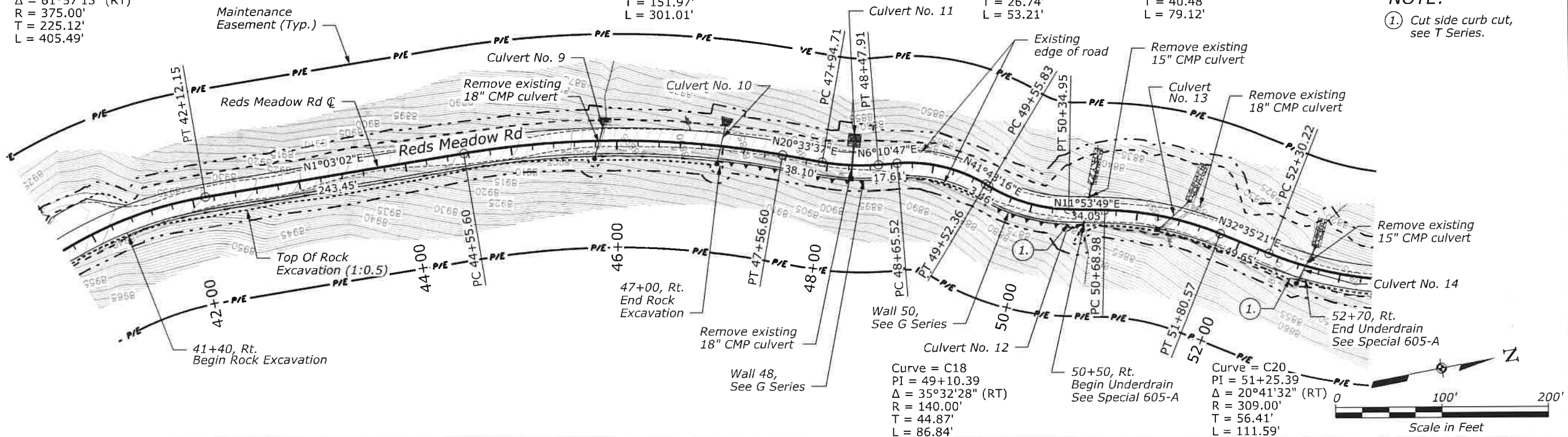
Curve = C17
PI = 48+21.45
 $\Delta = 14^\circ 22' 49''$ (LT)
R = 212.00'
T = 26.74'
L = 53.21'

Curve = C19
PI = 49+96.30
 $\Delta = 29^\circ 49' 26''$ (LT)
R = 152.00'
T = 40.48'
L = 79.12'

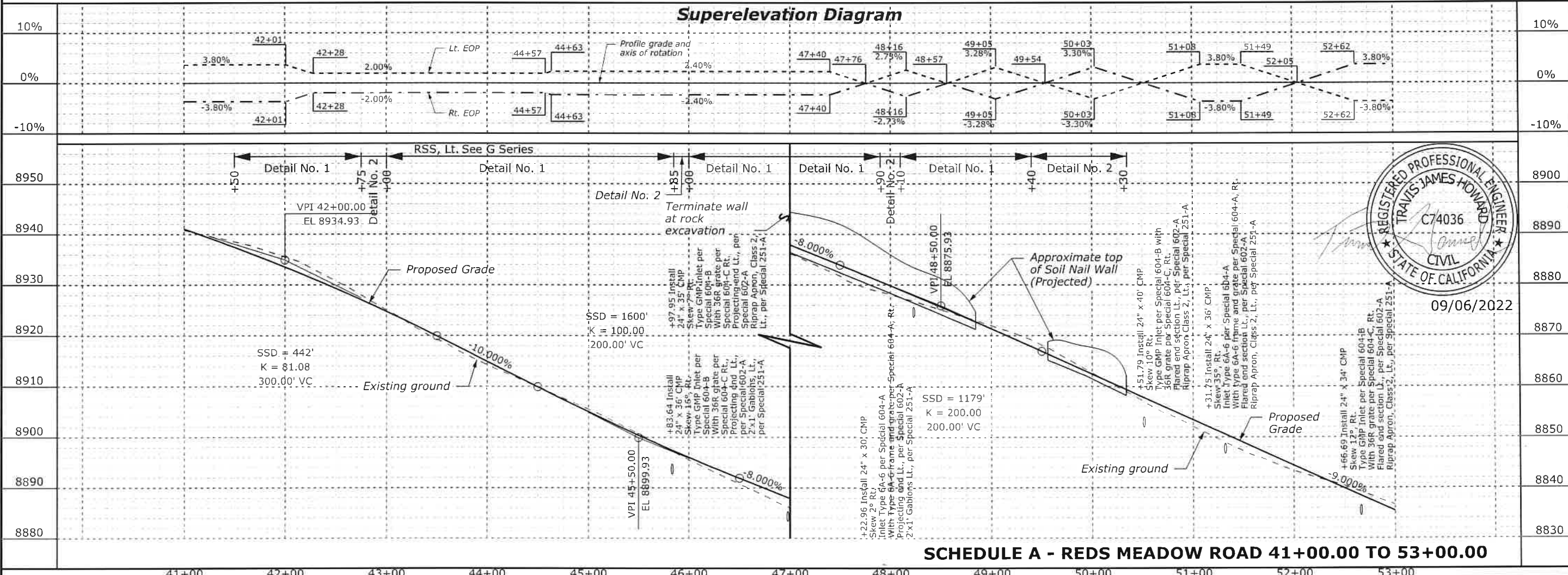
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	C4

NOTE:

1. Cut side curb cut, see T Series.



Superelevation Diagram



SCHEDULE A - REDS MEADOW ROAD 41+00.00 TO 53+00.00

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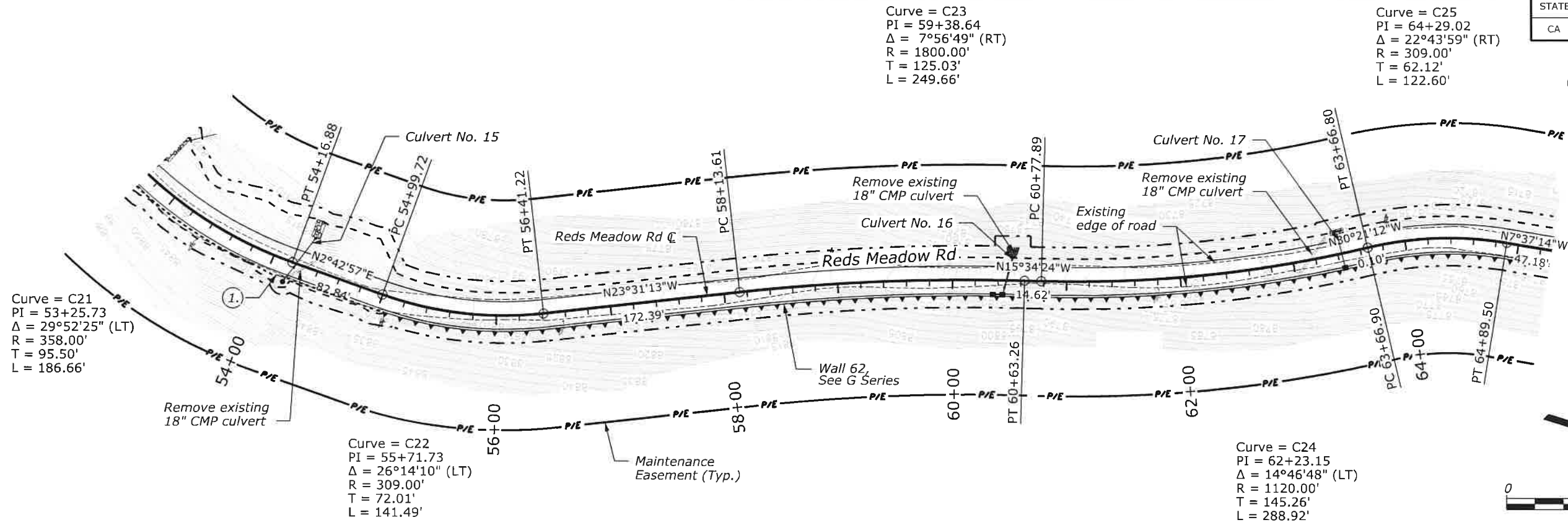
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3/25/2021

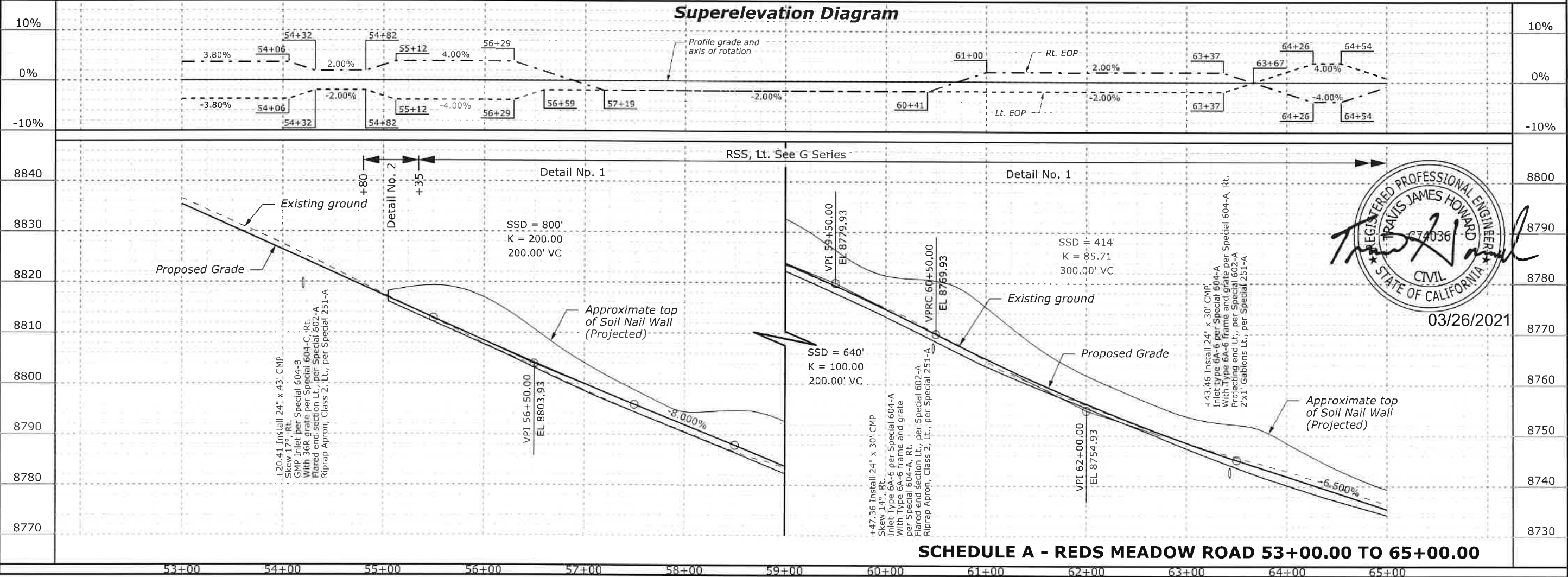
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	C5

NOTE:

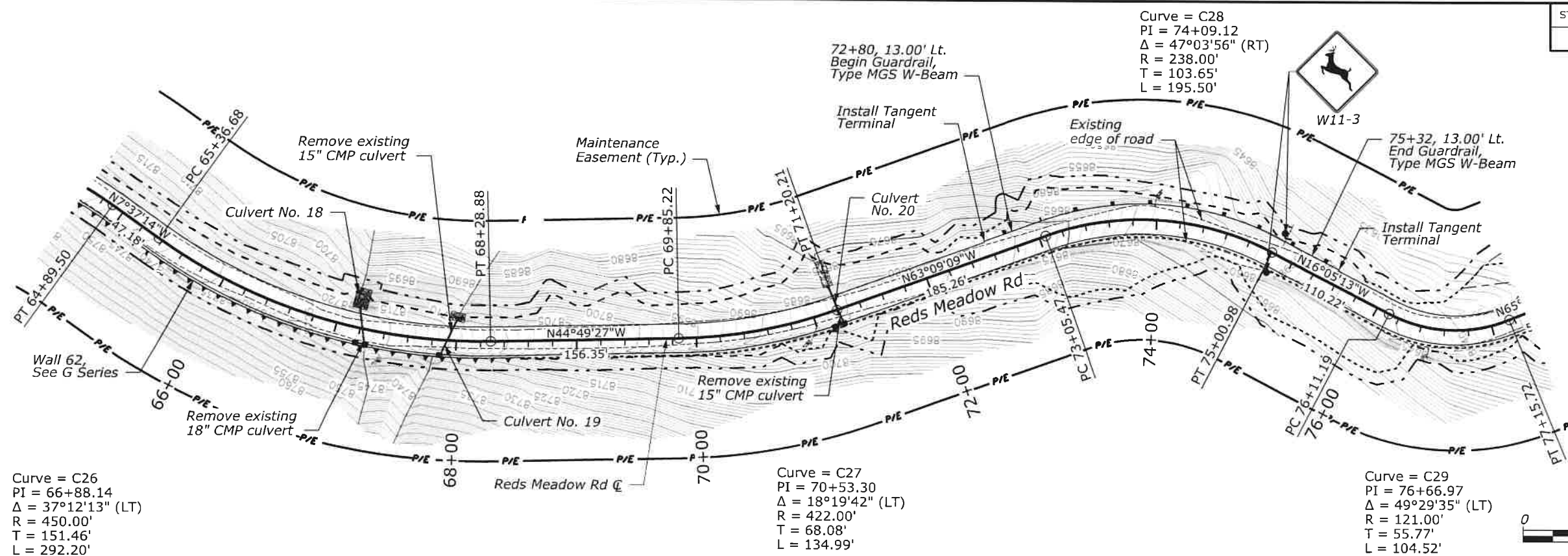
1. Cut side curb cut, see T Series.



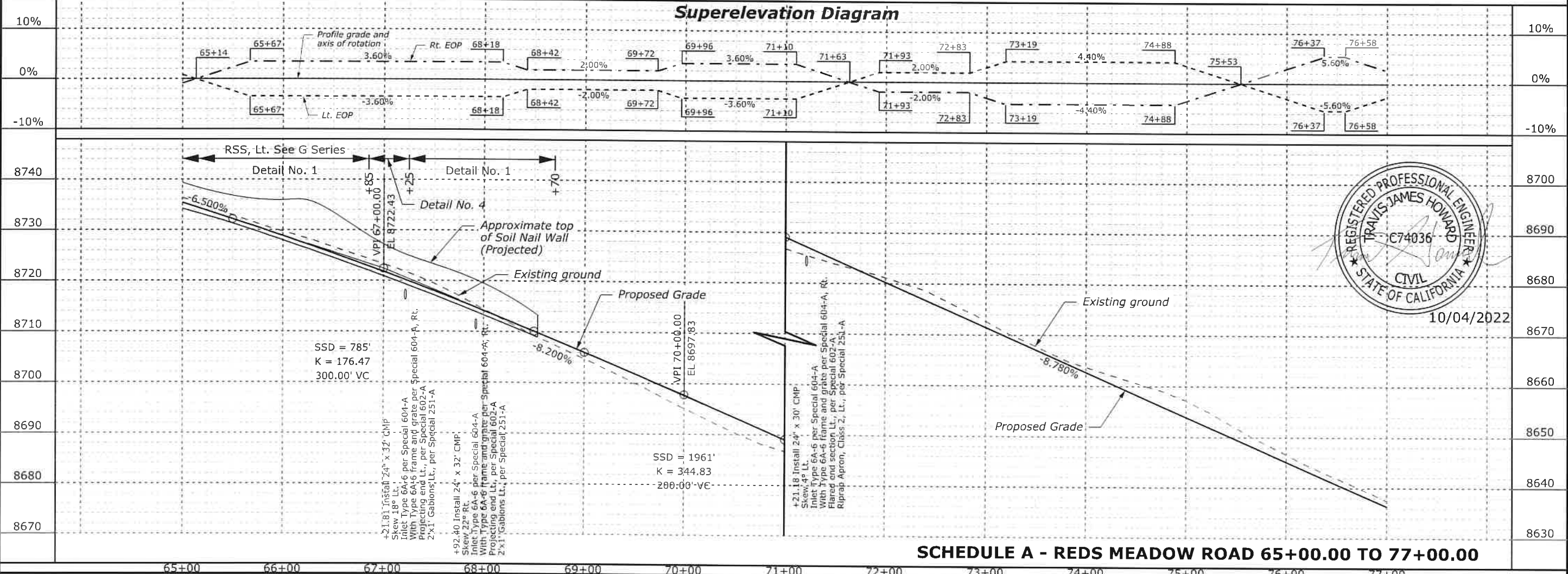
Superelevation Diagram



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 03S11(1)	C6



Superelevation Diagram

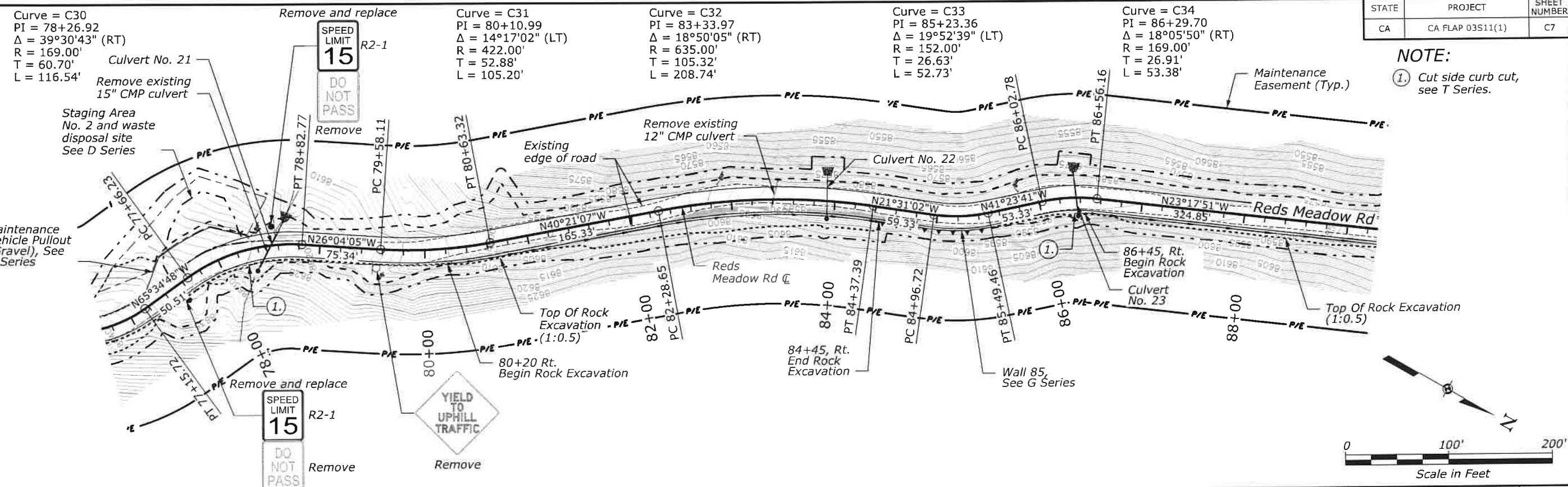


SCHEDULE A - REDS MEADOW ROAD 65+00.00 TO 77+00.00

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9/6/2022



Superelevation Diagram

