

**STATE ROUTE 20 OMEGA CURVES
SAFETY AND OPERATION
IMPROVEMENT PROJECT
03-2H62U4
CALIFORNIA DEPARTMENT OF
TRANSPORTATION**

**JEFF JOHNSON
RESIDENT ENGINEER
CALTRANS**



PROJECT NEED AND PURPOSE

PURPOSE

- The purpose of this project is to improve traffic operations and safety by reducing the number and severity of collisions.

NEED

- These two segments of roadway experienced a total of 39 collisions in a recent 3-year period (January 1, 2015, to December 31, 2017), including 19 collisions involving injuries.
- Accident rate is higher than the statewide average for a similar type facility.

PROJECT DESCRIPTION

- Construct two 12-foot lanes and 8-foot shoulders on both sides
- Improve horizontal and vertical curves
- Improve clear recovery zone
- Reconstruct roadway connections
- Construct drainage systems and remove/rehabilitate existing drainage systems
- Add Left-Turn Pockets at Conservation Camp Road and Washington Road

PROJECT COST AND TIME

\$32 million – Low Bidder – Granite
Construction

240 Working Days (250 Days Plant
Establishment)



PROJECT SCHEDULE

PROJECT 55% COMPLETE TO DATE (66% BY TIME)



SHEET No. DESCRIPTION

- 1 TITLE AND LOCATION MAP
- 2-17 TYPICAL CROSS SECTIONS
- 18 KEY MAP AND LINE INDEX
- 19-41 LAYOUTS
- 42-56 PROFILE AND SUPERELEVATION DIAGRAM
- 57-105 CONSTRUCTION DETAILS
- 106-198 DRAINAGE PLANS, PROFILES, DETAILS, AND QUANTITIES
- 199-207 UTILITY PLANS
- 208-210 CONSTRUCTION AREA SIGNS
- 211 MOTORIST INFORMATION PLAN
- 212-282 STAGE CONSTRUCTION AND TRAFFIC PLANS
- 283 STAFF CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES
- 284-308 PAVEMENT DELINEATION AND SIGN PLANS, DETAILS, AND QUANTITIES
- 309-314 SIGN DETAILS AND QUANTITIES
- 315-318 SUMMARY OF QUANTITIES
- 319-374 LANDSCAPE PLANS
- 375-380 ELECTRICAL PLANS
- 381-408 REVISED STANDARD PLANS
- 409-413 VENDOR DRAWINGS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

ACNH-P020(196)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev	20	25.6/39.8	1	413

IN NEVADA COUNTY NEAR OMEGA
AT VARIOUS LOCATIONS FROM 0.2 MILE WEST OF
CONSERVATION ROAD (WASHINGTON RIDGE ROAD)
TO 1.2 MILES WEST OF
ZEIBRIGHT ROAD

PROJECT LOCATION



BEGIN CONSTRUCTION
Sta "T1" 120+00 PM 25.6

Begin Work
Sta "T1" 90+00

End Work
Sta "T1" 889+00

PROJECT MANAGER
SAM VANDELL

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE 4-26-21
GEOGRAPHIC PROFESSIONAL SEAL
GEOGRAPHIC ENGINEER
NO. C91904

PROJECT PHOTOS

OMEGA PHOTOS

PROJECT PHOTOS

by Johnson, Jeff D@DOT

LOCATIONS 1 & 3



State Hwy 20

Oct 31, 2022 at 1:54:01 PM



LOCATION 2 – WHITE CLOUD CURVE
REALIGNMENT







May 13, 2022 at 11:02:51 AM
+39.322813,-120.833389





Sep 16, 2022 at 10:12:32 AM





Oct 31, 2022 at 1:45:03 PM
25761-25859 CA-20
Nevada City CA 95959
United States
Tahoe National Forest



Jul 7, 2023 at 1:50:09 PM





Jul 7, 2023 at 2:00:00 PM





LOCATION 5 – LOWELL HILL CURVE
REALIGNMENT

5' X 5' BOX FILL

May 19, 2022 at 7:48:42 AM

CA-20

Nevada City CA 95959

United States

Tahoe National Forest



Jun 10, 2022 at 9:13:22 AM
+39.313053,-120.716366



Oct 11, 2022 at 2:18:08 PM



Nevada City CA 95955
United States
Tahoe National Forest



Nevada City CA 95955
United States
Tahoe National Forest



Oct 24, 2022 at 9:03:59 AM
CA-20
Nevada City CA 95959
United States
Tahoe National Forest



LOCATION 5 – LOWELL HILL CURVE
REALIGNMENT

72" CONCRETE PIPE FILL



11/15/2023

10200-10214 Lowell Hill Rd
Nevada City CA 95959









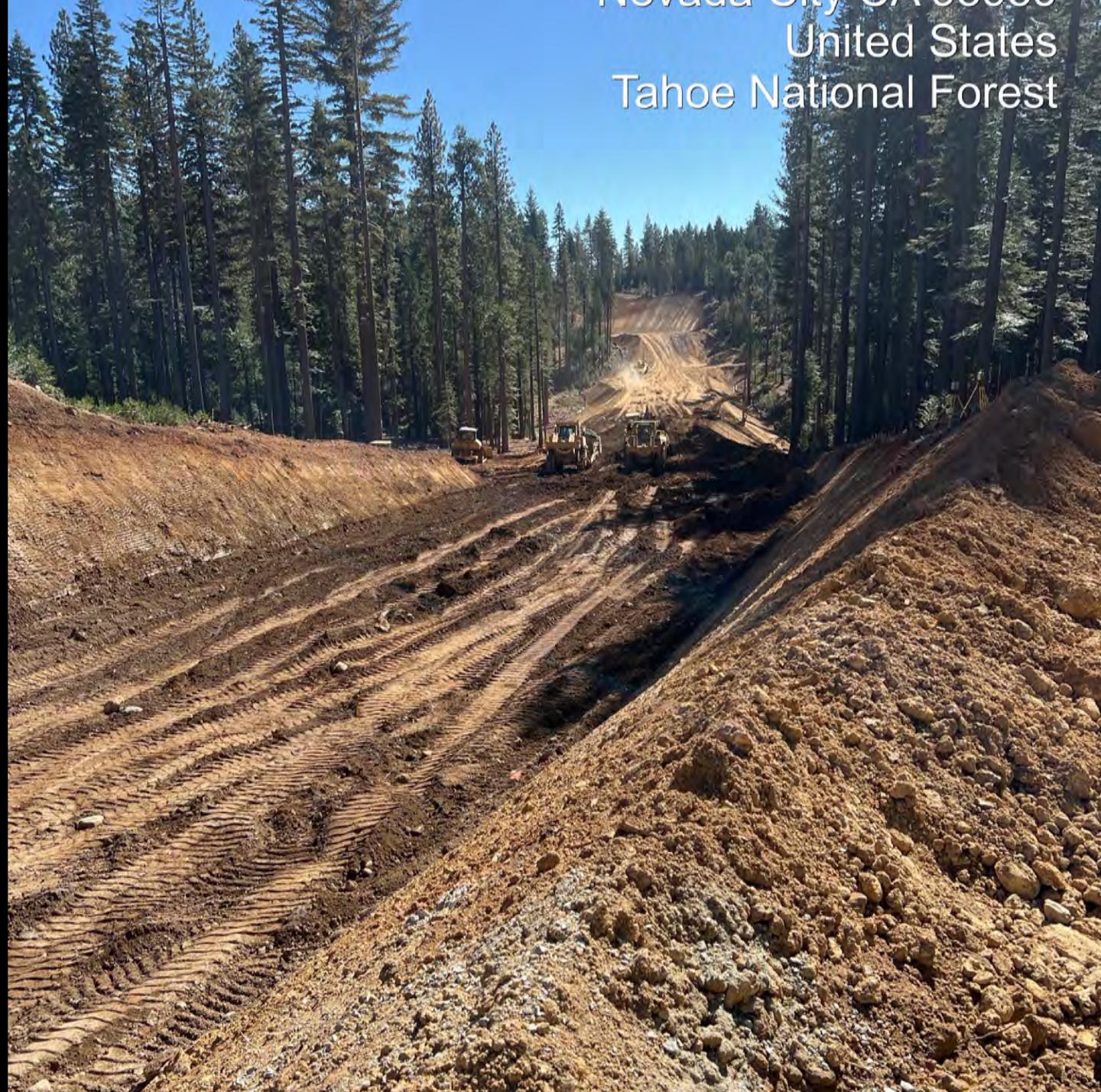




Oct 3, 2022 at 12:35:31 PM
36399-36537 CA-20
Nevada City CA 95959
United States
Tahoe National Forest



Nevada City, CA 95955
United States
Tahoe National Forest



LOCATION 5 – LOWELL HILL CURVE
REALIGNMENT

BEAR VALLEY CUT





Aug 25, 2022 at 3:37:02 PM
+39.305095,-120.717409
Tahoe National Forest
Nevada County



Sep 28, 2022 at 4:01:48 PM
36400-36538 CA-20
Nevada City CA 95959
United States
Tahoe National Forest



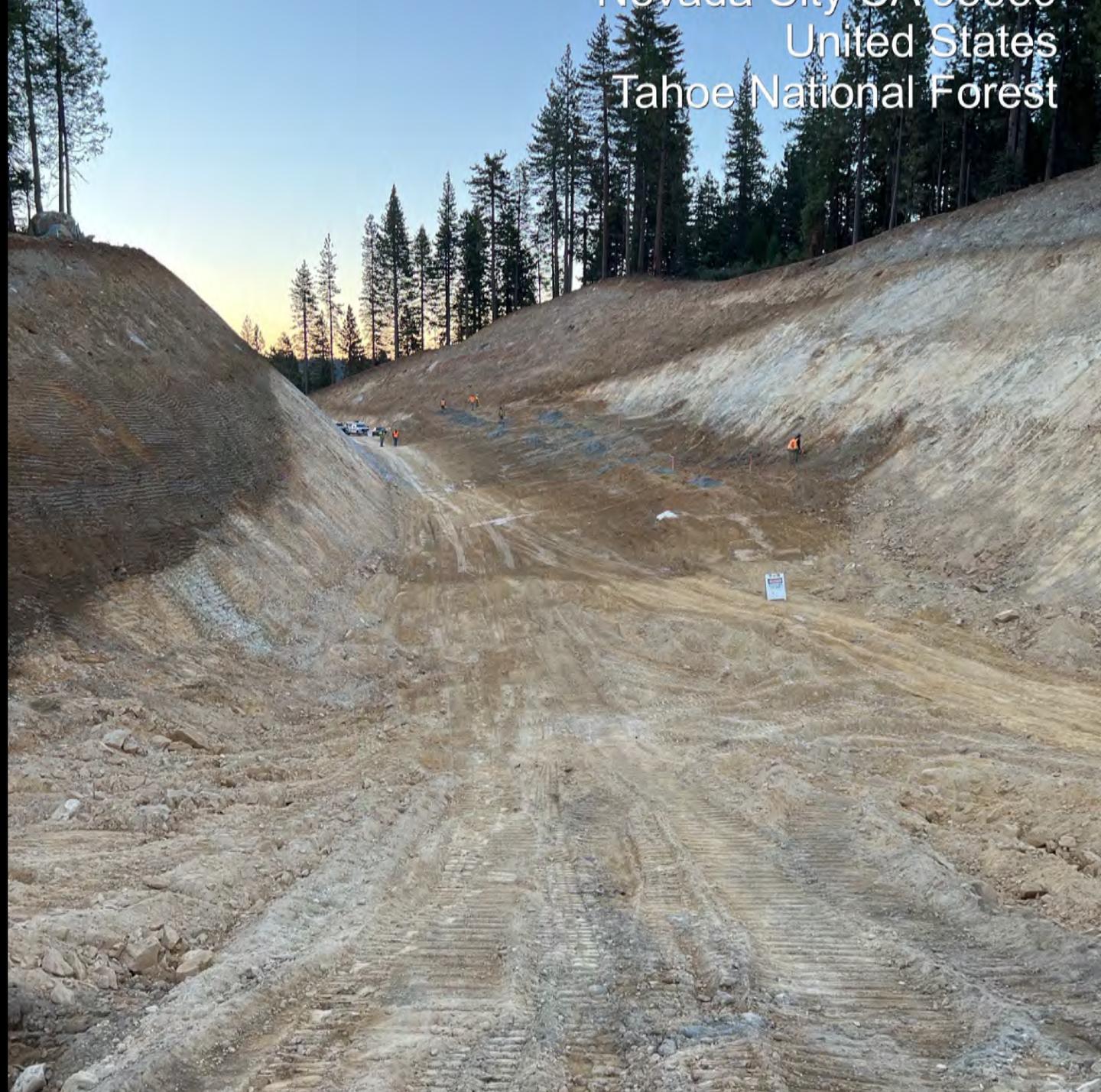
2017 W
36400-36538 CA-20
Nevada City CA 95959



Nevada City, CA 95959
United States
Tahoe National Forest

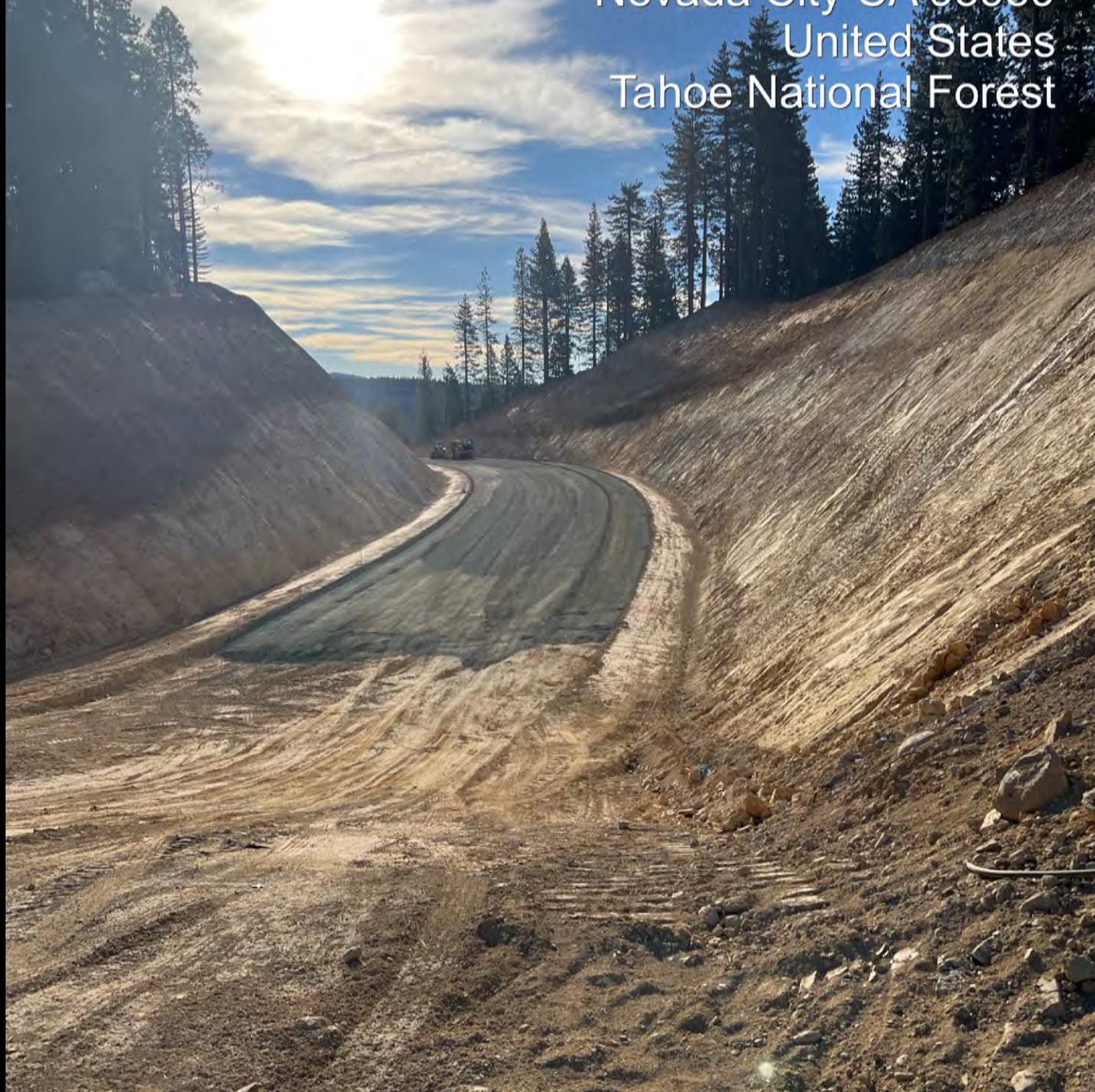


Nevada City, CA 95959
United States
Tahoe National Forest





Nevada City CA 95950
United States
Tahoe National Forest



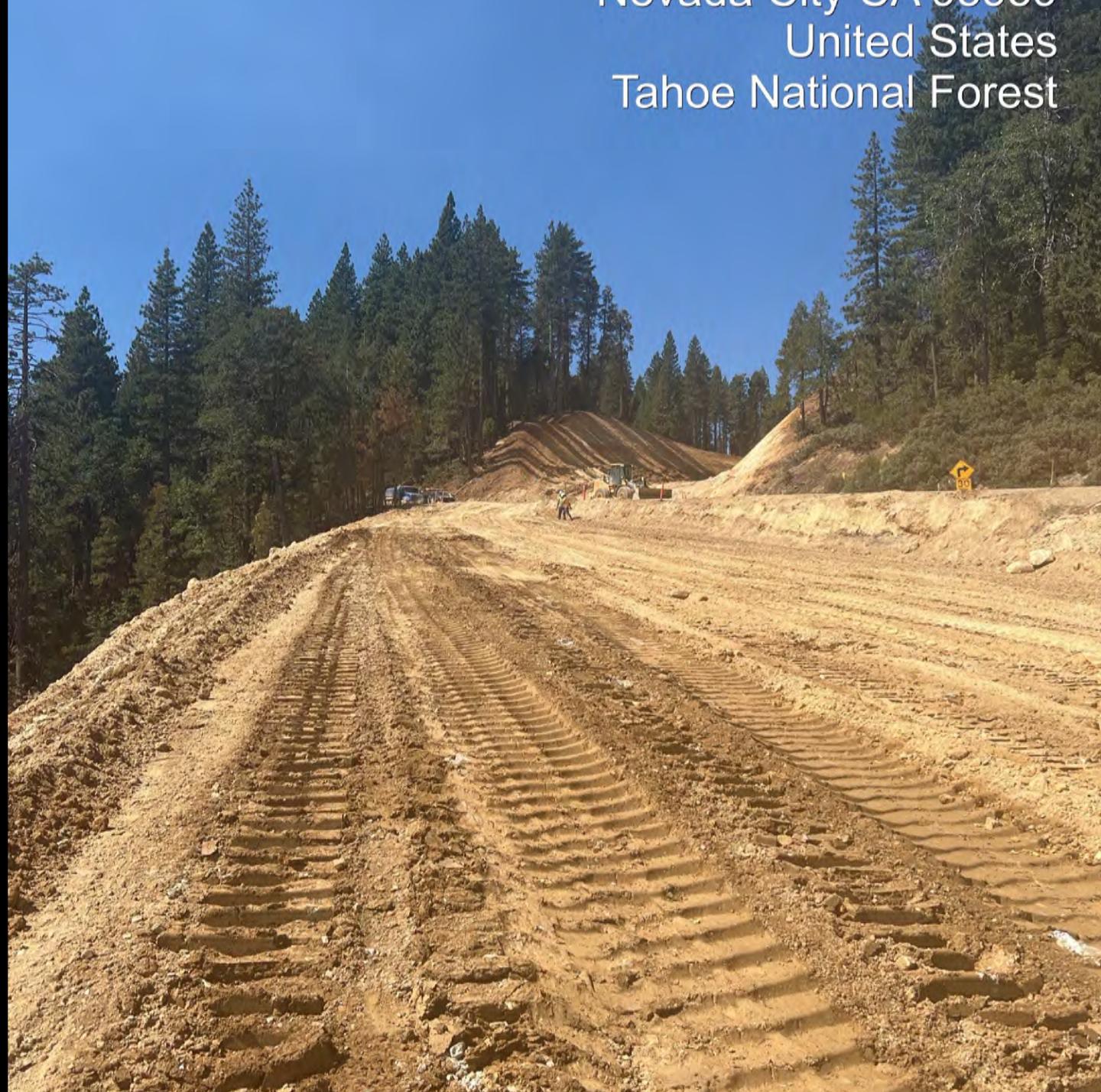
LOCATION 5 – LOWELL HILL CURVE
REALIGNMENT

BEAR VALLEY FILL





Nevada City CA 95950
United States
Tahoe National Forest



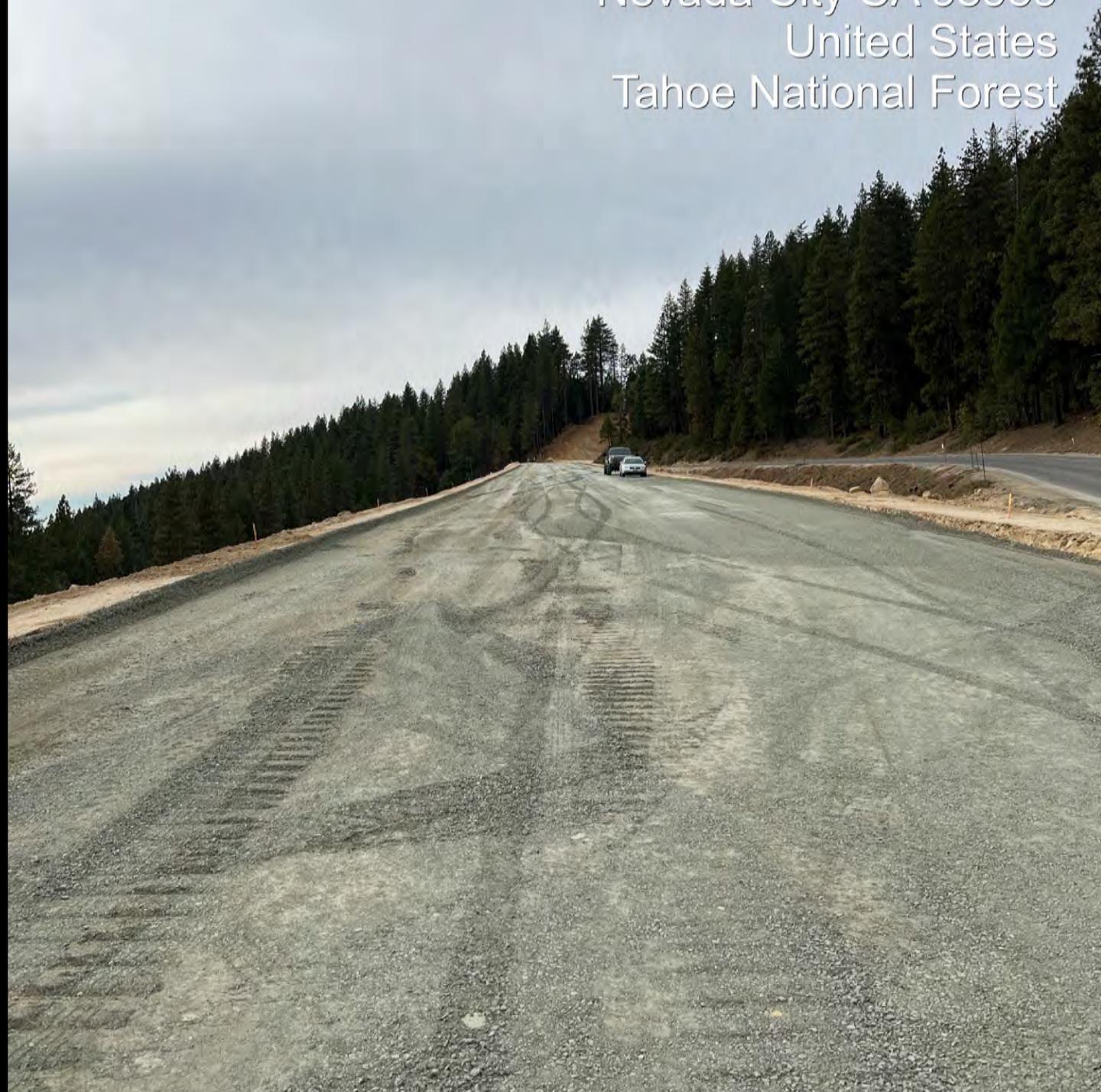
Sep 28, 2022 at 4:03:48 PM
36399-36537 CA-20
Nevada City CA 95959
United States
Tahoe National Forest







Nevada City CA 95955
United States
Tahoe National Forest



MILESTONE EVENTS

- **35 Day One-way Reversing Traffic Control (Lowell Hill) – Started July 10, 2023**
- **5-Day Full Closure (White Cloud) - Anticipated Mid-September 2023**
- **5-Day Full Closure (Lowell Hill) - Anticipated Mid/Late-September 2023**

QUESTIONS?

