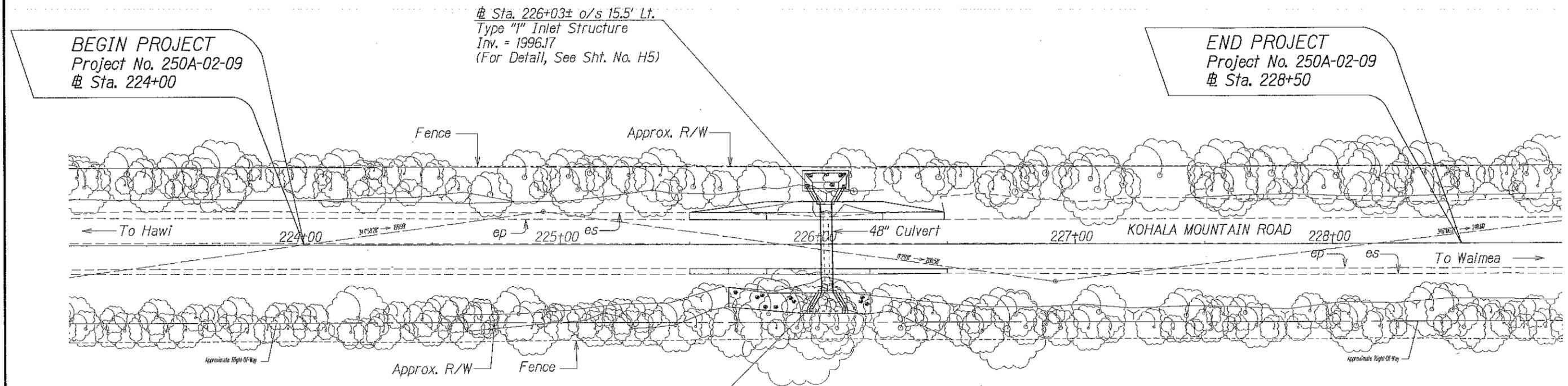


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	250A-02-09	2012	ADD. 7	14

TRUE NORTH
SCALE: 1" = 20'



BEGIN PROJECT
Project No. 250A-02-09
Sta. 224+00

END PROJECT
Project No. 250A-02-09
Sta. 228+50

Sta. 226+03± o/s 15.5' Lt.
Type "I" Inlet Structure
Inv. = 1996.17
(For Detail, See Sht. No. H5)

Sta. 226+04±
Demolish, Remove, and Dispose Existing 18" Culvert, Inlet and Outlet Structures. Install 48" Culvert and Construct Type "I" Inlet and Outlet Structures. Remove and Dispose Trees. Protect Existing Trees. Regrade Roadway Embankments. Install GRP Slope Protection. Install RM-3 with yellow Flexible Posts on each end of both headwalls. For Det., see Std. Plan TE-14.

Sta. 226+04± o/s 17.67' Rt.
Type "I" Outlet Structure
Inv. = 1994.25
(For Detail, See Sht. No. H6)

Notes:

- Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
- The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- For added reinforcing around culverts at new drainage structures, see Standard Plan H-06.
- Chamfer all exposed concrete edges 1".
- For details of 48-inch Culvert trench restoration, see Sheet No. H4.
- All exposed finish grade shall be hydromulched. The work shall be considered incidental to the various Contract Items.
- Replace Pavement Striping and Markings damaged by the Contractor. The cost shall be considered incidental to the various Contract Items.
- Concrete shall be Class A unless otherwise noted.
- The Contractor shall obtain permission from adjacent landowners if the Contractor elects to work outside the R/W.
- Demolishing, removing, and disposing the existing 18" culvert and Inlet and Outlet Structures shall not be paid for separately, but shall be considered incidental to the various Contract Items.
- Trench Backfill Material A or Structure Backfill Material A shall be used for Trench Backfill in culvert trench restoration. Trench Backfill Material B, Structure Backfill Material B, and on-site soils shall not be used. The cost shall be considered incidental to Item 206.2020 Excavation for Drainage Facilities.



5/7/12	Clarified RM-3 post color and location X
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
KOHALA MOUNTAIN ROAD
DRAINAGE IMPROVEMENTS PHASE 2
VICINITY OF M.P. 12.88
Project No. 250A-02-09
Scale: 1" = 20' Date: March 2012

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	