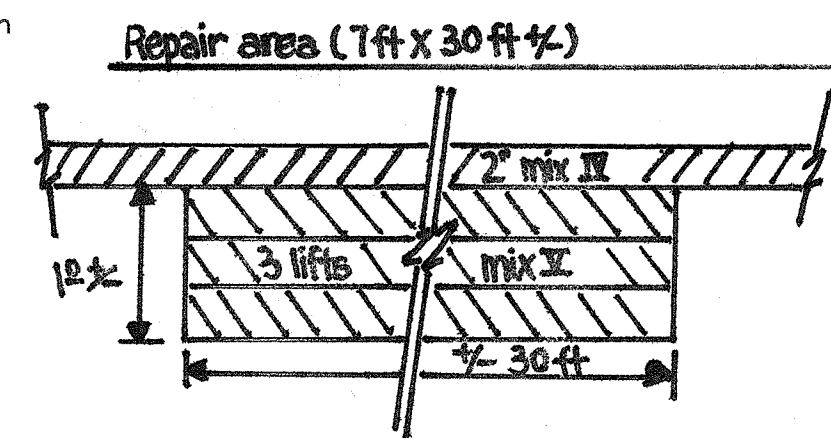


FED. ROAD DIST. NO.	STATE	HIGHWAY PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-02-06	2010	9	16

REVIEWED BY	DATE
DESIGNED BY	DATE
PLANNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE
ORIGINAL PLAN	DATE
NOTE BOOK	DATE

- Notes:
1. Azimuth and line work including state right-of-way boundary referenced to State Plane NAD 83 coordinate system. Grid azimuth rotation to local Government Survey Triangulation Station "MAUNA LOA 1872" being -0 10'37".
 2. Boundary lines shown taken from Federal Aid Secondary Project No. S21(1).
 3. Elevations shown derived from a spike benchmark located near the intersection of Molokai Airport Road and Airport Loop, being 481.31'. Spike benchmark information taken from State Department of Transportation, Coastal Engineering Department for waterline project along Maunaloa Highway, Sheet No. 5712.5.

2-19-10	Revised Sheet Reference Numbers
DATE	REVISION



Construct Drainage Manhole
Inv. Elev. = 1021.40 (24" in)
Inv. Elev. = 1016.40 (60" in/out)
See Detail

Sta. 185+31.50 o/s 20.54 LT
Construct Type 61614 GDI #5
Top Elev. 1054.70
Inv. Elev. 1050.10
See Detail

Sta. 185+01 o/s 83.50 LT
Construct Type 61614 GDI #2
Top Elev. 1035.00
Inv. Elev. 1030.00 (24" in/out)
See Detail

Sta. 184+01 o/s 9.46 LT
Construct Type 61614 GDI #1
Top Elev. 1055.55
Inv. Elev. 1055.55 (Swale)
Inv. Elev. 1048.23 (24" out)
See Detail

Sta. 179+87 o/s 19.61 LT
Begin Shoulder Swale Improvement
Inv. Elev. = 1059.86
See Detail

Sta. 179+76 o/s 21.25 RT
Begin Shoulder Swale Improvement
Inv. Elev. = 1058.03
See Detail

Begin travelway reconstruction (Sta. 184+46 1/2)
Cold plane 4" & replace w/ 2" mix II and 2" mix III
Crack seal Sta. 179+70 to 184+46 1/2 & Sta. 189+16 1/2 to 192+14

Sta. 184+08 o/s 48.08 RT
End Shoulder Swale Improvement
Inv. Elev. = 1057.23 (Swale) 1057.1
Construct Energy Dissipater
See Detail

Pipe Profile 1
See Detail

Pipe Profile 2
See Detail

Sta. 185+71 o/s 85.37 LT
Construct Type 61614 GDI #3
Top Elev. 1026.52
Inv. Elev. 1022.00 (24" in/out)
See Detail

Sta. 190+57 o/s 19.96 LT
Construct Type 61614 GDI #4
at Swale Termination
Top Elev. 1060.85
Inv. Elev. 1058.35 (24" out) 1056.50

New D-24

Reconstruct exist. rip-rap to remain

Begin shoulder reconstruction
End shoulder reconstruction

Sta. 189+30 1/2 20 LT
Construct type IA-9P 60" x 12"
Top elevation = 1059.40
Invert elevation = 1054.35

Added rock spill way approx.
15' wide x 20' long x 2' deep

Partial Profile
See Detail

Pipe Profile
See Detail

Sta. 189+51.84 o/s 38.28 RT
Begin Shoulder Swale Improvement
Inv. Elev. = 1060.01
See Detail

Sta. 192+14 o/s 10.12 LT
Begin Shoulder Swale Improvement
Inv. Elev. = 1063.88
See Detail

Swale Profile 4
See Detail

Swale Profile 1
See Detail

Swale Profile 2
See Detail

Swale Profile 3
See Detail

Swale Profile 4
See Detail

Swale Profile 5
See Detail

Swale Profile 6
See Detail

Swale Profile 7
See Detail

Swale Profile 8
See Detail

Swale Profile 9
See Detail

Swale Profile 10
See Detail

Swale Profile 11
See Detail

Swale Profile 12
See Detail

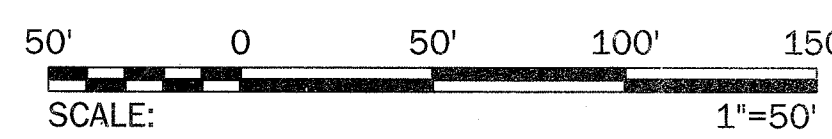
Swale Profile 13
See Detail

Swale Profile 14
See Detail

Swale Profile 15
See Detail

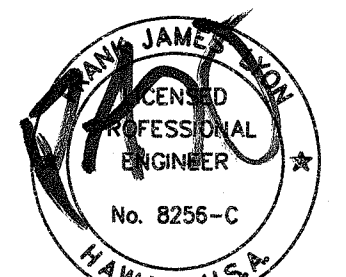
LEGEND

- New G4 Drainage Inlet
- New Drainage Manhole
- Conc. Swale



Note: Do not disturb existing stable AC areas behind guardrail

DRAINAGE LAYOUT PLAN SCALE 1" = 50'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE LAYOUT PLAN

MAUNALOA HIGHWAY
Slope Stabilization at Milepost 13
Highway Project No. 460A-02-06
Scale: AS NOTED Date: JAN 2010
SHEET No. 9 OF 16 SHEETS

"AS-BUILT"

ADD. 9