

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-04-10M	2010	3	45

GENERAL NOTES

1. The scope of work for this project includes slope surface preparation; installation of articulated concrete block mat; clearing of vegetation; recontouring by grading and shaving of slopes; installation and maintenance of erosion control BMP's and providing traffic control.
2. The Contractor's attention is directed to the following Specification Sections of the Standard Specifications: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.
3. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
4. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
5. All dimensions and details shown on the drawings shall be checked and verified prior to the start of construction, and any discrepancies shall be immediately brought to the attention of the Engineer for clarification.
6. All existing utilities to remain in use, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. Any damages to existing utilities shall be repaired and paid for by the Contractor.
7. Unless relocation is called for on the plans, existing utilities shall remain in service and in place. If relocation of existing utilities is required for the Contractor's convenience, interruption of service shall be kept to a minimum and shall be done at the Contractor's expense and only with the approval of the Engineer.
8. The Contractor shall provide for vehicle and pedestrian access to and from all existing public streets and driveways at all times.
9. Existing drainage system shall be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for separately.
10. Existing facilities, landscaping and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.
11. All regraded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specification Section 619 - Planting. Contractor shall restore to its original condition at no cost to the State.
12. When excavating in close proximity to walls, fences, and other improvements, the Contractor shall protect, support, secure, and take all precautions to prevent damaging these facilities and improvements.

13. The Contractor shall verify the locations and elevations of all existing utility lines and notify respective owners before commencing any excavation work.
14. No material or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations designated in writing and approved by the Engineer.
15. Contractor shall dispose of any removed material at no cost to the State.
16. After the project is completed, the Contractor shall restore grades and groundcover within the project limits to a condition equal to or better than existing condition prior to construction.
17. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.

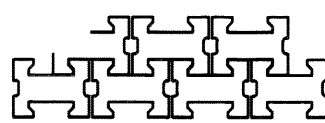
ARTICULATED CONCRETE BLOCK MAT (ACBM) NOTES:

1. The Contractor shall be responsible for protecting the highway and all appurtenances from damage resulting from the Contractor's activities. The Contractor shall be solely responsible for repairing any damage resulting from the clearing and/or other construction activities.
2. The Contractor shall protect the traffic on the highway from any hazards from excavated materials.
3. Preparation of ACBM Areas:
- a. Clear all surface objects including rocks, clods, vegetative of other obstructions within the limit of work areas indicated on the plans to a minimum depth of 4 inches.
- b. Grade areas to remove any rills and gullies. Backfill eroded areas to restore intended existing grades if necessary.
- c. For Site 3 only, prepare subgrade and place geogrid and aggregate base beneath areas to be protected with ACBM Type 2 blocks.
- d. Apply Geotextile to the prepared surface prior to installation of Articulated Concrete Block Mat.
4. The Contractor shall fill all voids between the Articulated Concrete Block Mat and existing structures or obstructions with uncompacted 3B Fine aggregate.

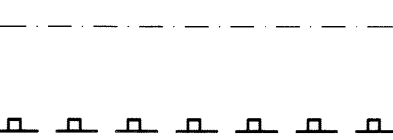
ABBREVIATIONS

Abut.	Abutment
AC, ac	Asphalt Concrete
ACBM	Articulated Concrete Block Mat
℄	Baseline
Bott.	Bottom
℄	Centerline
CL	Chain Link
Conc.	Concrete
DB	Direct Bury
Elev	Elevation
es	Existing Edge of Shoulder
etw	Existing Edge of Travel Way
EA	Each
EB	Eastbound
ftg.	Footing
G.W.	Guy Wire
M.L.	Matchline
ST. MON.	Street Monument
NTS	Not to Scale
o.c.	On Center
O/H	Overhead
PC	Point of Curvature
PI	Point on Intersection
POC	Point on Curvature
PT	Point of Tangency
R	Radius
R/W	Right-of-Way
SFM	Sewer Force Main
sl	Street Light
SLB	Street Light Box
STA	Station along ℄
t	Telephone
TCP	Traffic Control Plan
UG	Underground
U.P.	Utility Pole
w	Water

LEGEND



Articulated Concrete Block Mat



Centerline



Guardrail, Type 3



Silt Fence



Runoff Direction

JASON H. LAU

LICENSED PROFESSIONAL ENGINEER

NO. 9360-C

HAWAII USA

4/30/12

EXP. DATE

This work was prepared by me or under my supervision.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GENERAL NOTES, LEGEND AND ABBREVIATIONS

SLOPE MAINTENANCE FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 4

Project No. HWY-O-04-10M

Scale: As Shown

Date: May 2010

SHEET No. N-1 OF 8 SHEETS