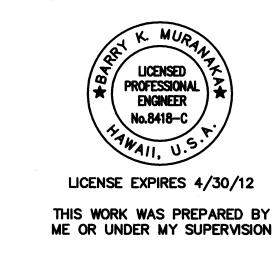


FED. ROAD
DIST. NO.STATEFED. AID
PROJ. NO.FISCAL
YEARSHEET
NO.TOTAL
SHEETSHAWAIIHAW.HS-STP-011-2(38)201089141

- 1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Standard Specifications.
- 2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and CW3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
- 3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
- 4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.1000, Traffic Control.
- 5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
- 6. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
- 7. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
- 8. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000, Traffic Control.

TABLE I GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN CW3-5(XX), CONSTRUCTION AREA SPEED LIMIT XX-NEW D-REDUCED SPEED LIMIT **EXISTING POSTED CONSTRUCTION** SIGN SPACING TO SPEED LIMIT FIRST CONSTRUCTION AREA **AREA** SPEED LIMIT SIGN SPEED LIMIT (MPH) (FEET) (MPH) **35** 225 45 225 40 **50 55** 45 300



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LICH COEEN LIMINATED LICHWAY

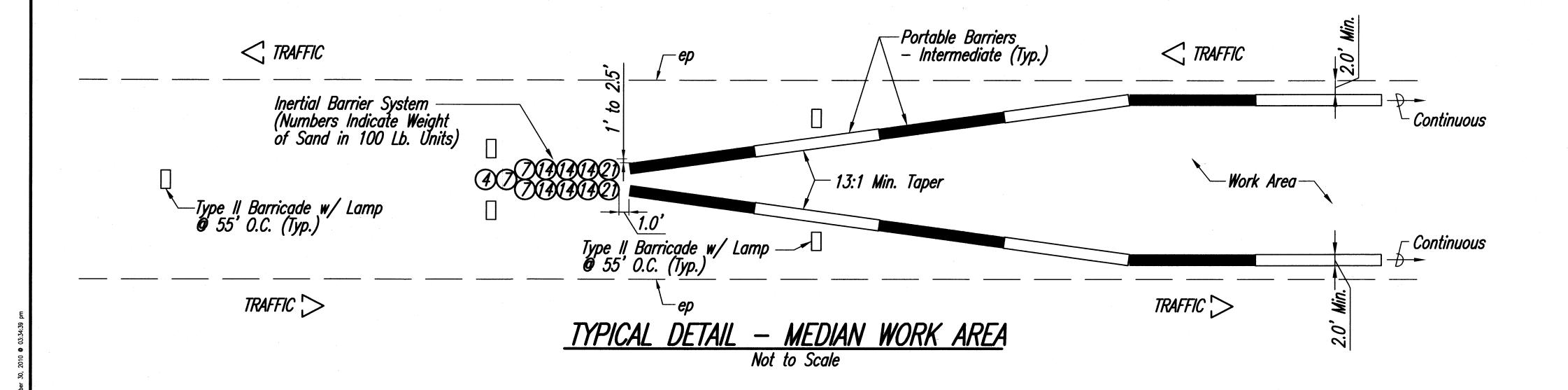
HIGH SPEED UNDIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES & DETAILS

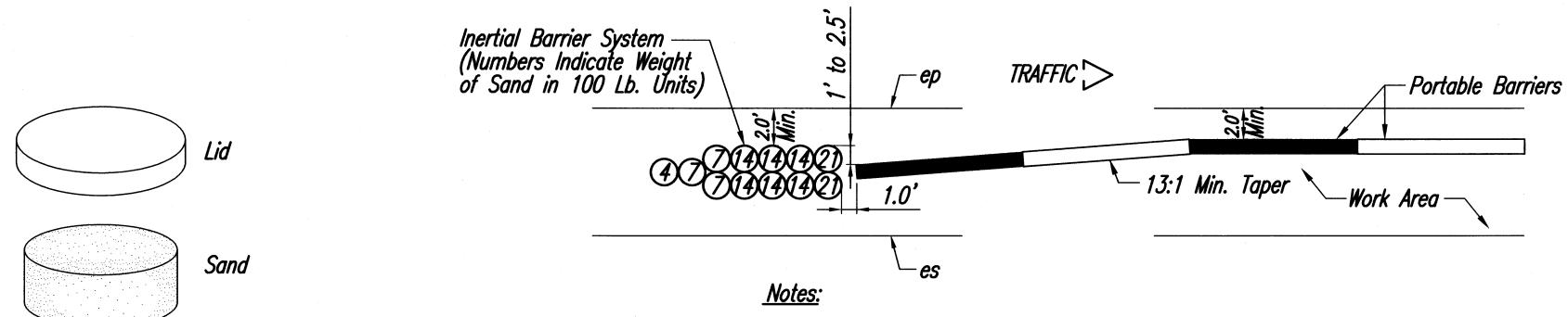
Volcano Road Intersection and <u>Drainage Improvements</u> Federal—Aid Project No. HS-STP-011-2(38)

Scale: Not to Scale Date: November 2010

SHEET No. 11 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	90	141

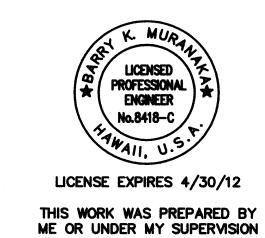




- 1. Portable barriers shall be required whenever guardrails have been removed and will not be reinstalled at the end of the work day.
- 2. Portable barriers shall be either portable concrete barriers or portable water filled barriers. Installation of portable water filled barriers shall conform to manufacturer's recommendations as dictated by design speed and field conditions.
- 3. Providing, transporting, placing, maintaining, relocating and removal of portable barriers shall be considered incidental to the various items of work. See Section 645, WORK ZONE TRAFFIC CONTROL DEVICES of the Standard Specifications.
- 4. Ends of portable barriers shall be protected with inertial barriers as shown above.
- 5. Payment for furnishing and relocations of temporary inertial barriers for the different construction phases shall be incidental to the various items of work. See Section 645, WORK ZONE TRAFFIC CONTROL DEVICES of the Standard Specifications.

TYPICAL DETAIL — SHOULDER WORK AREA

Not to Scale



INERTIAL BARRIER DETAILS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

Volcano Road Intersection and <u>Drainage Improvements</u> Federal-Aid Project No. HS-STP-011-2(38)

Scale: Not to Scale

Date: November 2010

Inner Module

Stabilizer

CONTAINER DETAIL

SHEET No. 12 OF 12 SHEETS