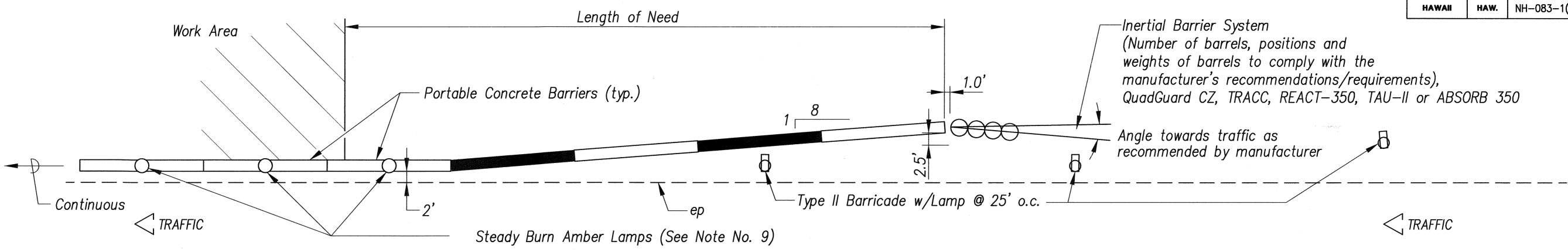


FED. ROAD DIST. NO. FISCAL YEAR FED. AID PROJ. NO. NH-083-1(60) 2007 HAW. 38



TYPICAL DETAIL - PORTABLE CONCRETE BARRIER END TREATMENT Scale: 1" = 10'-0"

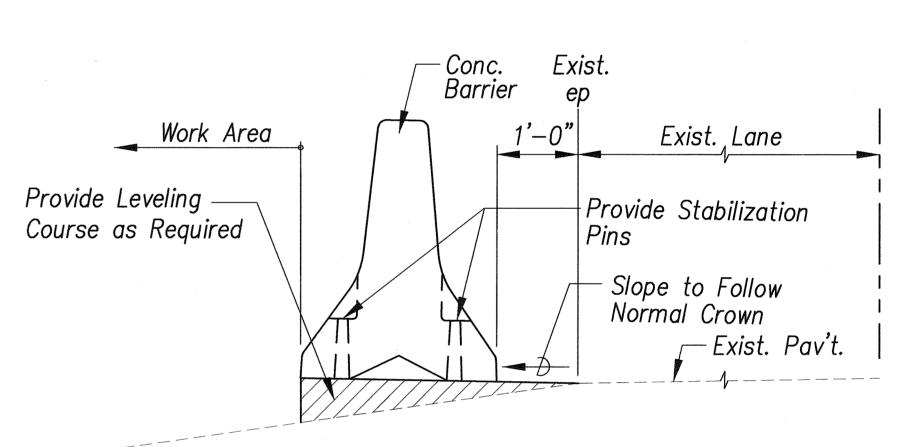
METAL REINFORCEMENT TABLE				
MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	Horizontal in Barrier Tied Inside V—1 Bars	# 5	(6)	19'-3"
H-2	Centered Above Scuppers Long. & Transversely	# 5	(6)	6'-6"
H-3	Tied Above H-1 Bars to Support H-2, Tied to V-1	#4	(2)	1 <u>'-6</u> "
S-1	Horizontal in Top of Wing Wall & in Floor Back Wall	#4	(2)	Lifting Hole $R=3-3/8$
S-2	Horizontal Around Slots Between V—1's @ Scuppers	#4	(2)	R=1-1/2" Slots 5'-1" Bar w/(4) 1-1/2"R Bends & Min. 1'-0" Overlap
V-1	Vertical in Barrier (3) Each End & (2) at Each Scupper	# 5	(16)	Total Length 4'-9" $R=2-3/16"$ $4-3/8"$ 12° $2'-1-3/8"$

NOTES:

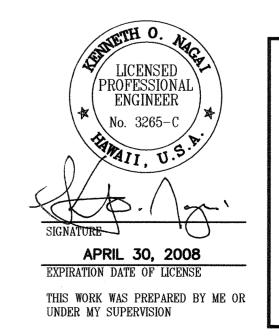
- 1. For end treatment, layout, crash cushions and where needed see Sheet C-35.
- 2. Barriers must be pinned together and cannot exceed the Maximum Taper of 8:1.
- 3. Barrier installations that require less than 3'-3'' of outward lateral movement shall have stabilization pins.
- 4. ASTM A-36 steel shall be used for the connection pin, connection loops and stabilization pins. A one piece pin with a 3" rounded top may be used in place of the detailed connection pin if the one piece pin meets ASTM A-36 requirements.
- 5. A 4" white PVC sleeve may be used to form the lifting hole and if used the sleeve is to be left in place.
- 6. Concrete shall be Class A and reinforcing shall be Grade 60.
- 7. Identification and date of design will be as follows: **PROPERTY**

OF HDOT OCT 2001 Text letters and numbers shall be shown as on Standard Plan Sht. No. B-01. "PROPERTY OF HDOT" may be changed depending upon ownership. All Portable Concrete Barriers made for HDOT will be subject to rejection, if "PROPERTY OF HDOT" is not imprinted. The Contractor shall bear the cost of the rejected Portable Concrete Barriers.

- 8. Minimum tangent length for portable Concrete Barrier System shall be 100' (5 units). This minimum does not include the required system length of the Inertial Barrier
- 9. Install steady burn amber lamps on portable concrete barriers @ 20.0' o.c. Installing, maintaining and removing each steady burn amber lamp including changing of batteries and bulbs shall be considered incidental to applicable portable concrete barrier items.



TYPICAL INSTALLATION (See Note No. 1)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

CONCRETE BARRIER DETAILS

KAHEKILI HIGHWAY INTERSECTION IMPROVEMENTS VICINITY OF HUI IWA STREET

FEDERAL-AID PROJECT NO. NH-083-1(60) SCALE: AS NOTED

DATE: April 2007

SHEET No. C-36 OF 90 SHEETS

