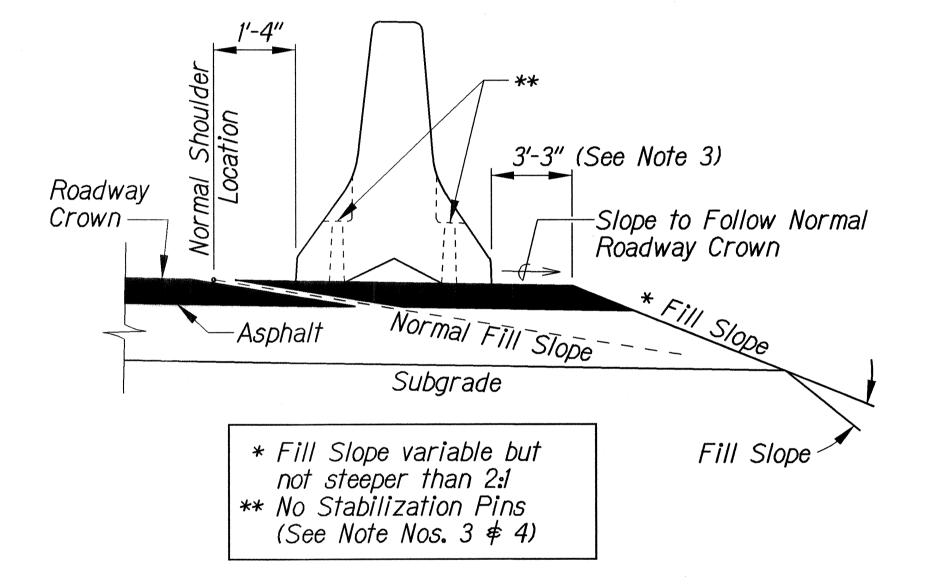


TYPICAL DETAIL - PORTABLE CONCRETE BARRIER END TREATMENT Scale: 1" = 10'-0"

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.	#5	(6)	<u>6'-6"</u>	
H-3	Tied Above H-1 Bars to Support H-2, Tied to V-1	#4	(2)	<u>1′-6</u> ″	
S-1	Horizontal in Top of Wing Wall ∳ in Floor Back Wall	#4	(2)	Lifting Hole $R=3\frac{3}{8}$	
S-2	Horizontal Around Slots Between V-1's @ Scuppers	#4	(2)	8-1/2" Slots Slots	
V-1	Vertical in Barrier (3) Each End ∳ (2) at Each Scupper	#5	(16)	Total Length 4'-9" R=2 ³ / ₁₆ " 12° 2'-1 ³ / ₈ "	





STANDARD INSTALLATION (See Note No. 1)

TABLE B

FOR CONCRETE BARRIER

TAPER

INSIDE BEYOND SHY LINE SHY LINE

20:1

19:1

18:1

16:1

14:1

12:1

8**:**1

30:1

28:1

21:1

13:1

MAXIMUM TAPERS

DESIGN SPEED

(mph)

70

65

60

55

50

45

40

35

≤*30*

TABLE A					
SHY LINE OFFSETS *					
DESIGN SPEED (mph)	SHY LINE OFFSETS				
70	10.0′				
65	9.0′				
60	<i>8.5′</i>				
55	7.0′				
50	6.5'				
45	<i>6.0′</i>				
40	5.0′				
35	4.5′				
30	3.5′				
≤ 25	2.0′				

* Note: Minimum shy line offset for tangent sections shall be 2'-0".

NOTES:

1. For end treatment, layout, crash cushions and where needed see Project Plans or Special Provisions.

FISCAL YEAR

2007

SHEET NO.

73

TOTAL SHEETS

- 2. Barriers must be pinned together and cannot exceed the Table of Maximum Tapers.
 3. The concrete barrier "Standard Installation" design
- allows for 3'-3" of outward lateral movement if the barrier is struck. Barrier installations that require less than the 3'-3" of outward lateral movement should 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.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

PORTABLE CONCRETE BARRIER

INTERSTATE ROUTE H-2 REHABILITATION <u>Waipio Interchange ♦ Mililani Interchange</u> On/Off Ramps, Ka Uka Blvd., Meheula Pkwy. Overpass, & Kipapa Stream Bridge Federal Aid Project No. IM-H2-1(33) Not to Scale Date: Dec. 2006

SHEET No. 72 OF 63 SHEETS

