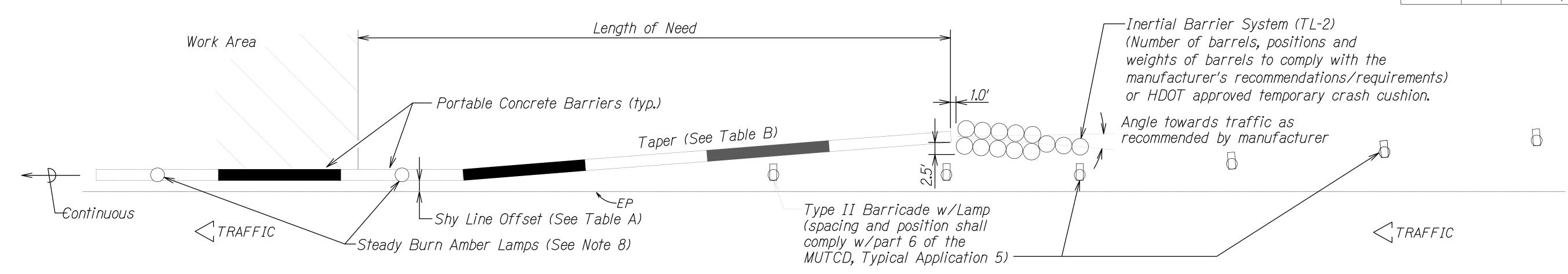
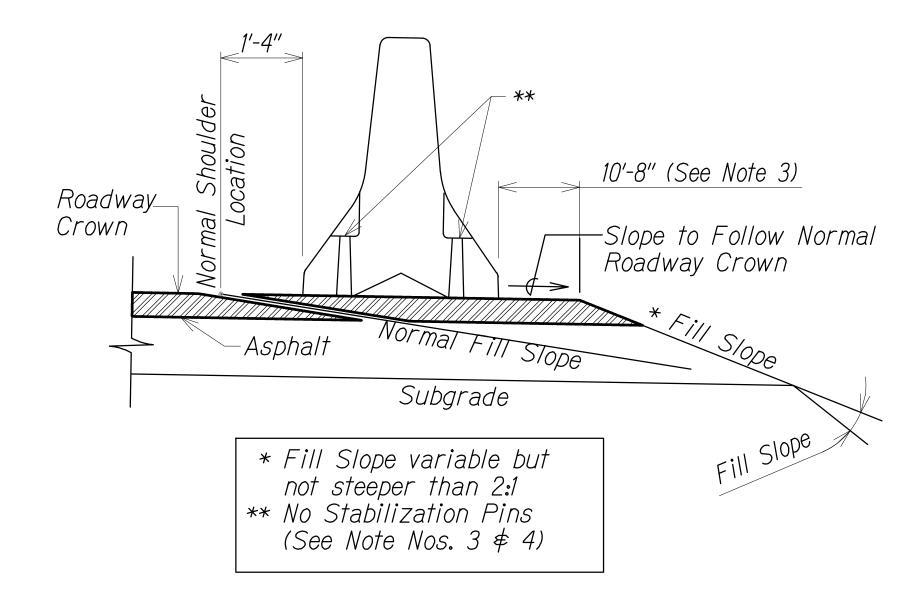


FED. AID PROJ. NO. FISCAL YEAR STATE DIST. NO. NO. BR-030-1(37) 2024 26



## TYPICAL DETAIL - PORTABLE CONCRETE BARRIER END TREATMENT

Not to Scale



STANDARD INSTALLATION (See Note No. 1)

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	6.0′	
40	5.0′	
35	4.5′	
30	3.5′	
≤25	2.0'	

DESIGN SPEED	TAPER	
(mph)	INSIDE SHY LINE	BEYOND SHY LINE
70	30:1	20:1
65	28:1	19:1
60	26:1	18:1
55	24:1	16:1
50	21:1	14:1
45	18:1	12:1
40	17:1	11:1
35	15:1	9:1
<i>≤30</i>	13:1	8:1

TABLE B

MAXIMUM TAPERS

\* 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.
- 2. Barriers must be pinned together and cannot exceed the Table of Maximum Tapers.
- 3. The concrete barrier "Standard Installation" design allows for 10'-8" of outward lateral movement if the barrier is struck. Barrier installations that require less than the 10'-8" of outward lateral movement should have stabilization pins.
- 4. ASTM A-36 steel shall be used for the connection pin and stabilization pins.
- 5. Concrete shall be 5,000 psi and reinforcing shall be as indicated in the Bill of Materials (See Sheet No. 1 of 2).
- 6. Identification and date of design will be as follows:

## PROPERTY OF HDOT JAN 2021

Text letters and numbers shall be shown as on Sht. No. 1 "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.

- 7. Minimum tangent length for portable Concrete Barrier System shall be 11 units. This minimum does not include the required system length of the Inertial Barrier System, nor does it consider Length of Need (LON). LON shall comply with the latest edition of the AASHTO Roadside Design Guide.
- 8. Install steady burn amber lamps on portable concrete barriers @ approximately 25' o.c. Installing, maintaining and removing each steady burn amber lamp including maintenance shall be considered incidental to applicable portable concrete barrier items.
- 9. A 4" white PVC sleeve may be used to form the lifting hole and if used, the sleeve is to be left in place.
- 10. Portable Concrete Barrier and End Treatment shall be MASH Compliant to TL-2.



STATE OF HAWAI'I **DEPARTMENT OF TRANSPORTATION** F-SHAPE PORTABLE CONCRETE BARRIER AND END TREATMENT DETAILS - 2

> Rehabilitation of Honolua Bridge F.A.P No. BR-030-1(37)

Scale: As Shown

Date: August 2024 SHEET No. *C-5.08*OF *42* SHEETS

