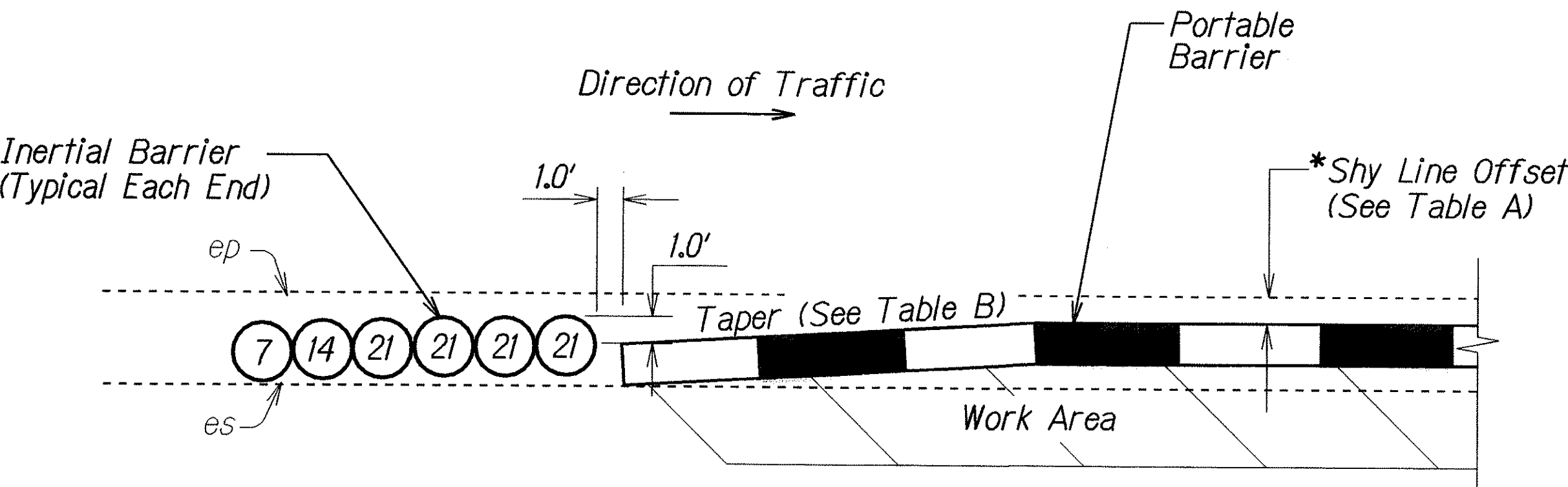


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(58)	2006	31	32

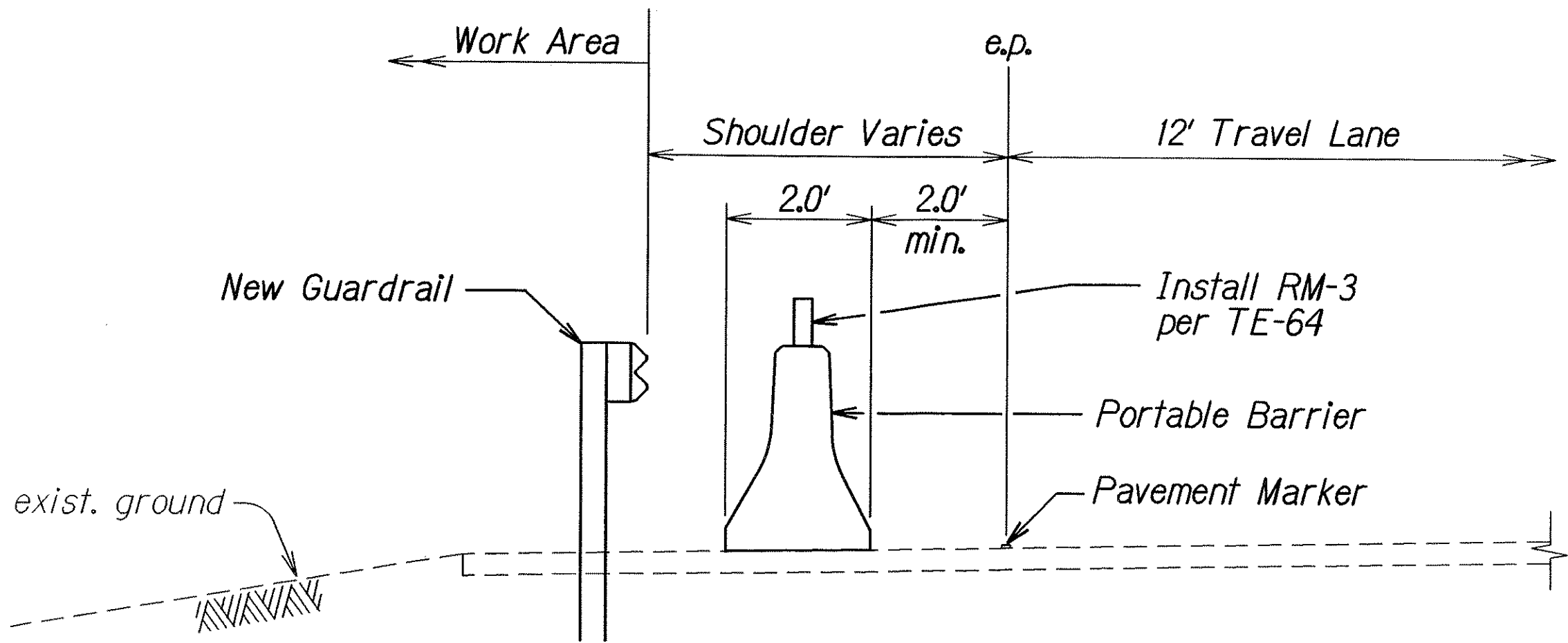


NOTE: The numbers inside the circle indicate weight of sand in 100 lb unit. Installation shall conform to Manufacturer's recommendations.

TYPICAL DETAIL
6-MODULE INERTIAL BARRIER
Not to Scale

NOTES:

1. Typical layout will vary based on speed and manufacturer of system used. Installation shall conform to Manufacturer's recommendations.
2. Physical barriers shall be required whenever guardrails have been removed and will not be reinstalled at the end of the work day. See General Note No. 12 on Plan Sht. No. 3.
3. Physical 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.
4. Providing, transporting, placing, maintaining, relocating and removing physical barriers shall be considered incidental to the various items of work. See Section 645, TRAFFIC CONTROL DEVICES of the Special Provisions.
5. Ends of portable barriers shall be protected with Inertial Barriers as shown above. Furnishing and installing inertial barriers shall be considered incidental to the various contract items.
6. Furnishing and installing reflector markers (RM-3) over the portable barriers shall be considered incidental to the various contract items.



TYPICAL DETAIL
PORTABLE BARRIER
Not to Scale

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

TABLE B MAXIMUM TAPERS FOR CONCRETE BARRIER		
DESIGN SPEED (mph)	TAPER	
	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
≤ 30	13:1	8:1

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
Field Notes	TRACED BY	
Revisions	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PORTABLE PHYSICAL BARRIER
KUHIU HIGHWAY, KUAMOO ROAD & KOKEE ROAD
Guardrail and Shoulder Improvements
at Various Locations
Federal-Aid Project No. STP-0700(58)
Scale: As Shown Date: July 2006