

TYPICAL DETAILS OF CLEANOUT

Scale: 3/4"=1'-0"

2'-2"

PLAN

DH2 - Hydraulics Design Section

-Class A or B Concrete

Demolish and remove

existing concrete

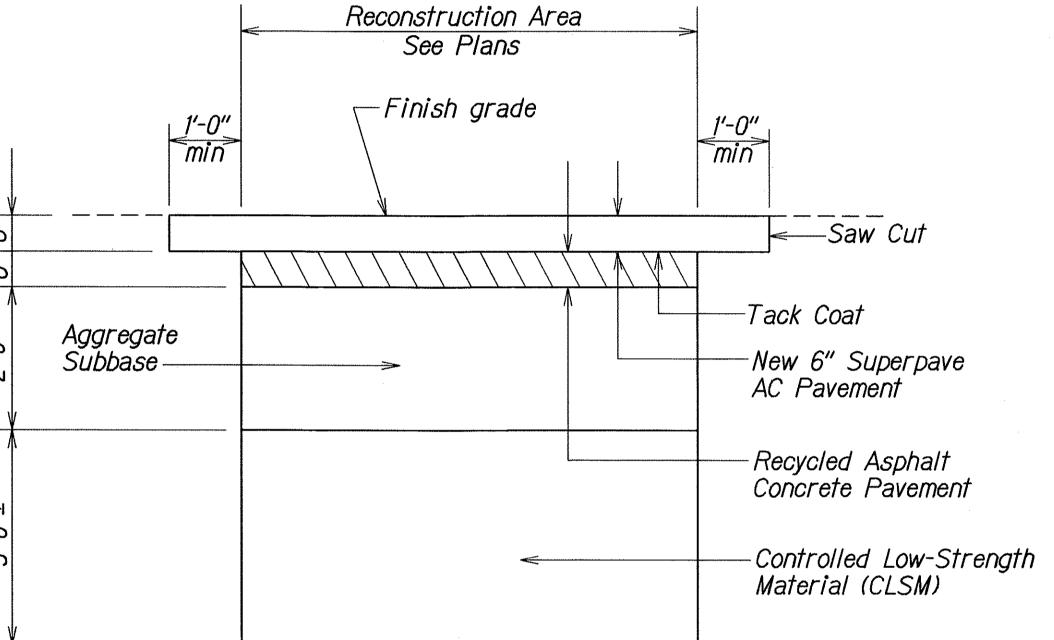
Existing 6" Nonperforated Underdrain Pipe to remain

ELEVATION

DRAINAGE NOTES

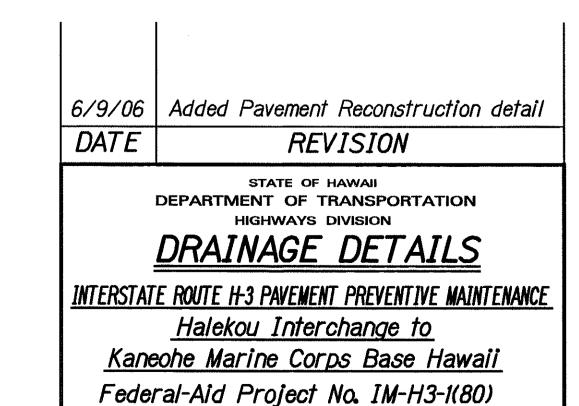
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H3-1(80)	2006	ADD.65	66

- 1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow.
- 2. The quantities for cleanouts are based on As-Built drawings.
 The Contractor shall verify the locations of all existing cleanouts in the field. Demolishing, removing, and disposing existing cleanouts shall not be paid for separately, but shall be considered incidental to Item No. 604.2000-Adjusting Cleanout Frame and Cover.
- 3. Any existing underdrains damaged during construction shall be replaced by the Contractor at his own expense.



PAVEMENT RECONSTRUCTION

Scale: 3/4"=1'-0"

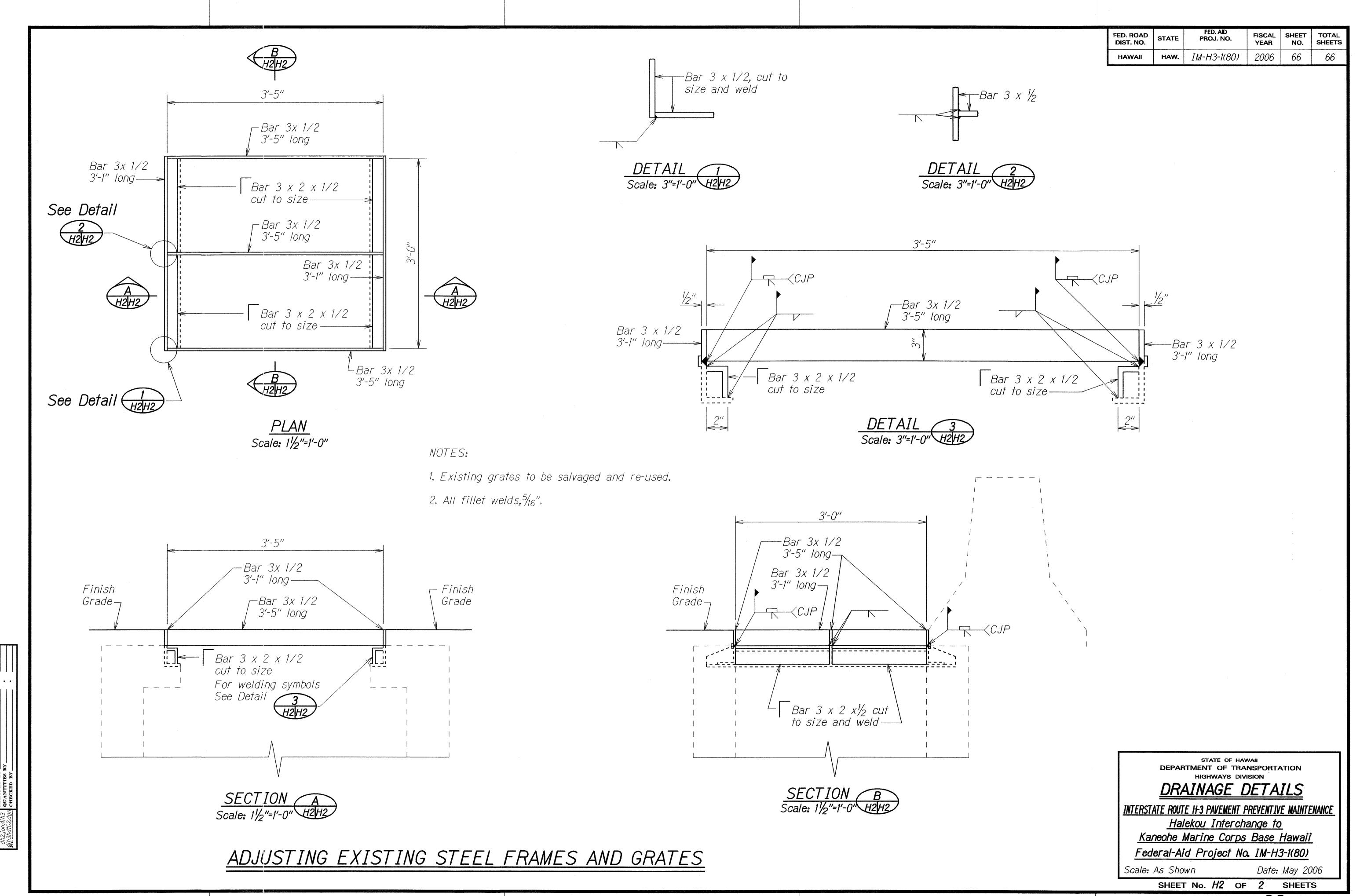


Scale: As Shown

SHEET No. HI OF 2 SHEETS

ADD.65

Date: June, 2006



TRAFFIC CONTROL NOTES:

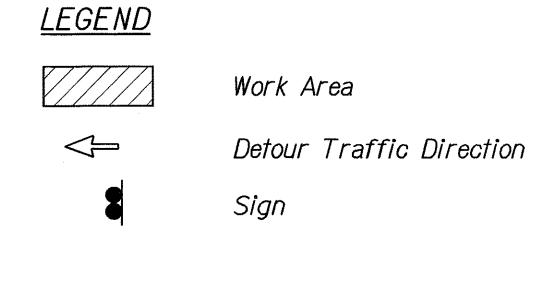
- 1. Minimum width of traffic lane through work area is 10'.
- 2. Relocation and/or removal of temporary signs and posts used for traffic control shall be considered incidental to various contract items.
- 3. Damage to signs, temporary pavement markers, delineators, barricades and lamps caused by the public shall be repaired or replaced by the Contractor as soon as possible or as directed by the Engineer. This work shall be paid for under Item No. 645.2000 Additional Police Officers, Additional Traffic Control Devices and Advertisements. Damage caused by the Contractor's negligence shall be repaired or replaced at the Contractor's expense.
- 4. Work required in the Traffic Control Plan will be paid under applicable contract items or otherwise specified herein. All other traffic control work shall be in accordance with Section 645.1000 Traffic Control. Work required for lane closures during the working day will not be paid for but shall be considered incidental to various contract items. Advance Construction Warning Signs as required under Section 645 of the Special Provisions shall be installed on all approaches to construction areas. This work shall be considered incidental to various contract items.

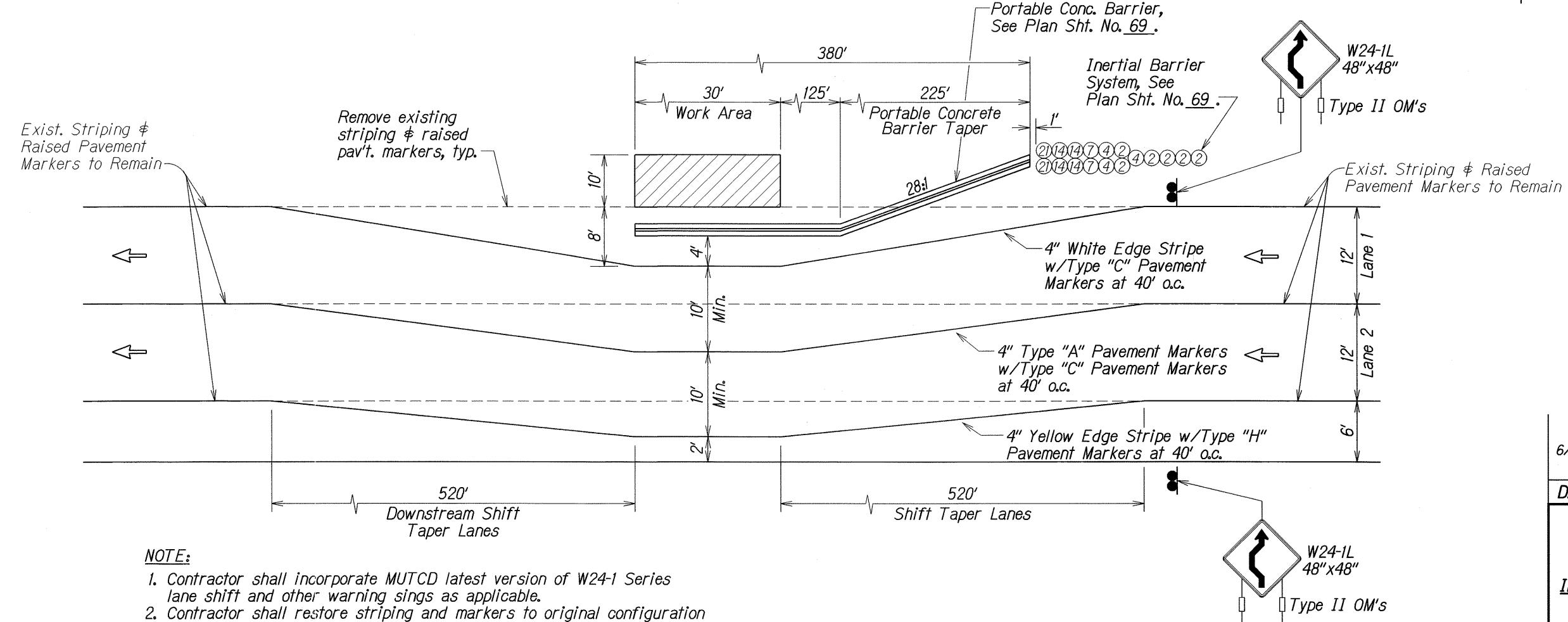
if area is not shown to receive new striping.

- 5. The Contractor shall publish "Notice to Motorists" 1 week prior to the start of construction. Public notice shall be coordinated with the Department of Transportaion, Highways Division.
- 6. The Contractor shall notify Lowell Tom (848-4578) at Oahu Transit Authority (The Bus) 4 weeks prior to start of construction.
- 7. The Permittee shall make minor adjustments of intersections to fit field conditions.
- 8. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
- 9. Regulatory and warning signs within the construction zone that are in conflict with the Traffic Control Plans shall be removed or covered. All signs shall be restored upon completion of the work.
- 10. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- 11. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).

- FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL YEAR NO. SHEET NO. SHEETS

 HAWAII HAW. IM-H3-1(80) 2006 ADD. 665-1
- 12. Lane closure shall be limited only to the extent of accomplishing each day's work. As soon as each day's work is completed, the Permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
- 13. Replace permanent pavement markings and traffic signs upon completion of each phase of work.
- 14. Buffer and taper areas on approach to any work area shall be kept clear of vehicles and equipment.
- 15. "No Parking" signs shall be posted within any work area and for the buffer and taper areas approaching the work area.





TEMPORARY STRIPING PLAN - LANE SHIFT ON 2 LANE ROAD

Not to Scale

AL SURVEY PLOTTED BY 3/33

DRAWN BY LH.

TRACED BY C./K.S.

OUANTTTIES BY ...

CHECKED BY ...

ADD.

6/1/06 This plan sheet added to contract plans.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

INTERSTATE ROUTE H-3 PAVEMENT
PREVENTIVE MAINTENANCE
Halekou Interobance to

<u>Halekou Interchange to</u> <u>Kaneohe Marine Corps Base Hawaii</u> <u>F.A.I. Project NO. IM-H3-1(80)</u>

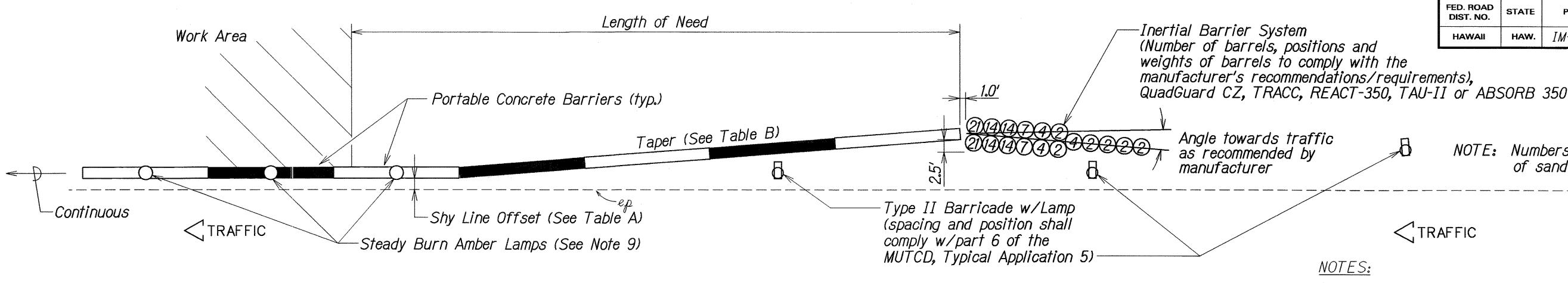
SHEET No. 1

Scale: As Shown

OF / SHEETS

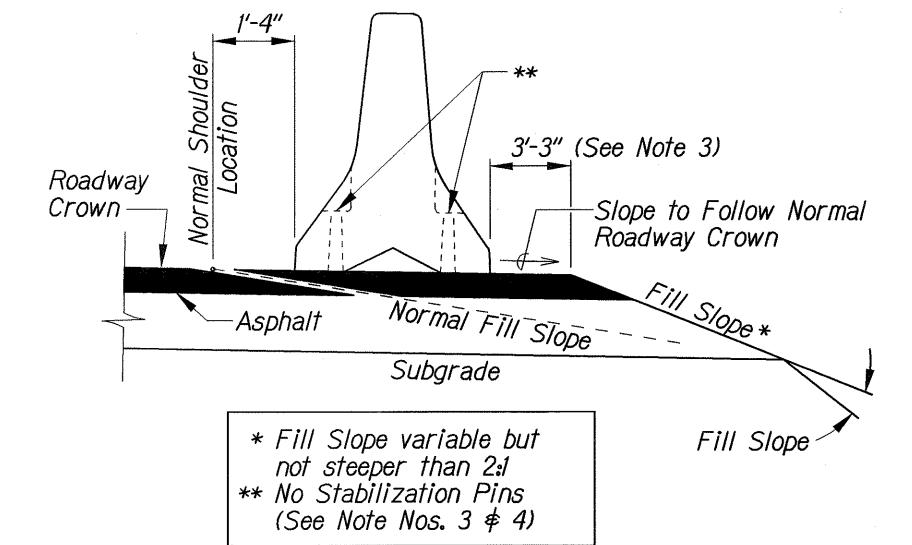
Date: June 2006

ADD. 66S-1



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)	<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° 4 ³ / ₈ "	



	SI ANDAND INSTALLATION
	(See Note No. 1)
TADLE	

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′					
<i>45</i>	6.0′					
40	5.0'					
35	<i>4.5′</i>					
30	3.5′					
≤ 25	2.0′					

* Note:	Minimum	shv	line	offset	for	tangent	sections	shall	be	2'-0"	
11010.	mirimani	Olly	11110	011001	I OI	rangoni	000110110	Undi	DO	2 U .	

Roadway Crown Asphalt Normal Fill Slope ** Slope to Follow Normal Roadway Crown Fill Slope *
Subgrade
* Fill Slope variable but not steeper than 2:1 ** No Stabilization Pins (See Note Nos. 3 \$ 4)
STANDARD INSTALLATION

FOR CONCRETE BARRIER

6/1/06 This plan sheet added to contract

plans.

DATE

DESIGN SPEED	TAF	PER
(mph)	INSIDE SHY LINE	BEYOND SHY LINE
70	<i>30:1</i>	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	<i>15:1</i>	9:1
≤ <i>30</i>	13:1	8:1

TABLE B

MAXIMUM TAPERS

TRAFFIC

FED. ROAD DIST. NO.

HAWAII

STATE

HAW.

NOTES:

1. For end treatment, layout, crash cushions and where needed see Project Plan Sheet No. 68. 2. Barriers must be pinned together and cannot exceed

FED. AID PROJ. NO.

IM-H3-1(80)

NOTE: Numbers indicate weight

of sand in 100 lb. unit.

FISCAL SHEET YEAR NO.

2006 ADD. 665-2

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 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 System.

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.

10. Fürnishing, installing and maintaining the Type II Barricades and Lamps shall be considered incidental to Portable Concrete Barrier and shall not be paid for separately.

> STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** PORTABLE CONCRETE BARRIER INTERSTATE ROUTE H-3 PAVEMENT

PREVENTIVE MAINTENANCE Halekou Interchange to Kaneohe Marine Corps Base Hawaii F.A.I. Project NO. IM-H3-1(80) Date: June 2006

Scale: As Noted REVISION

SHEET No. 1 OF 1 SHEETS ADD. 66S-2