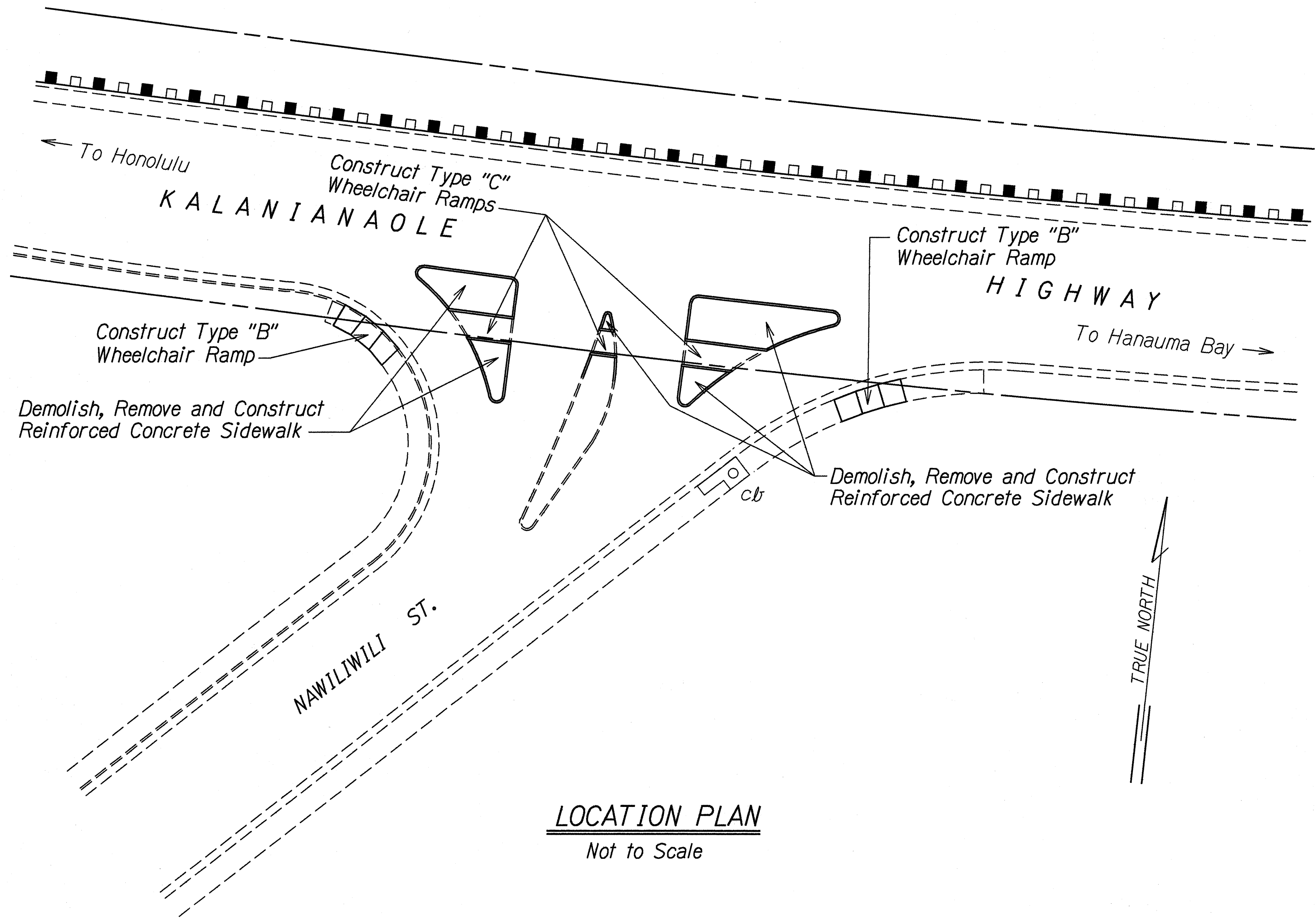
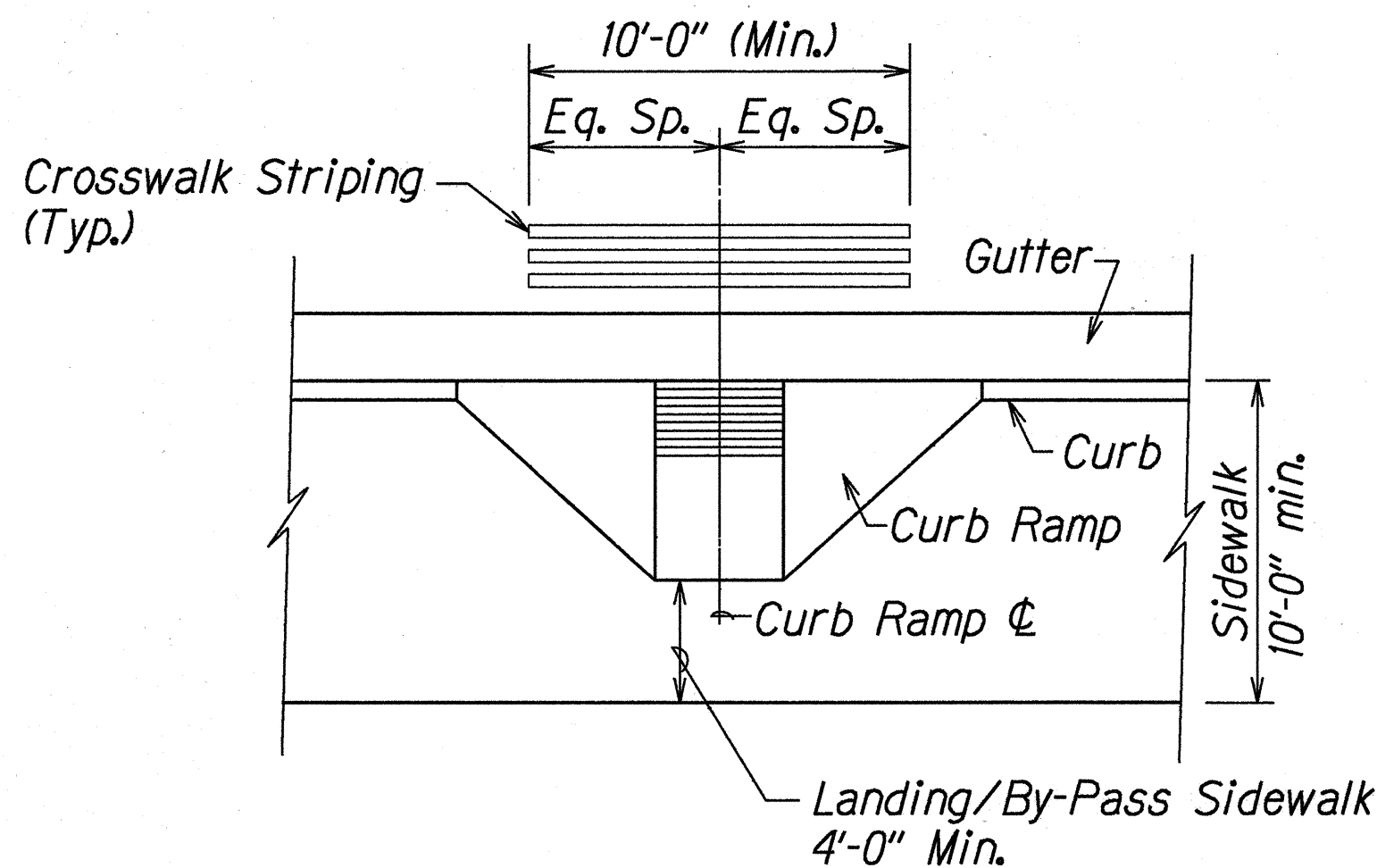


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72BC-01-97M	1997	12	32

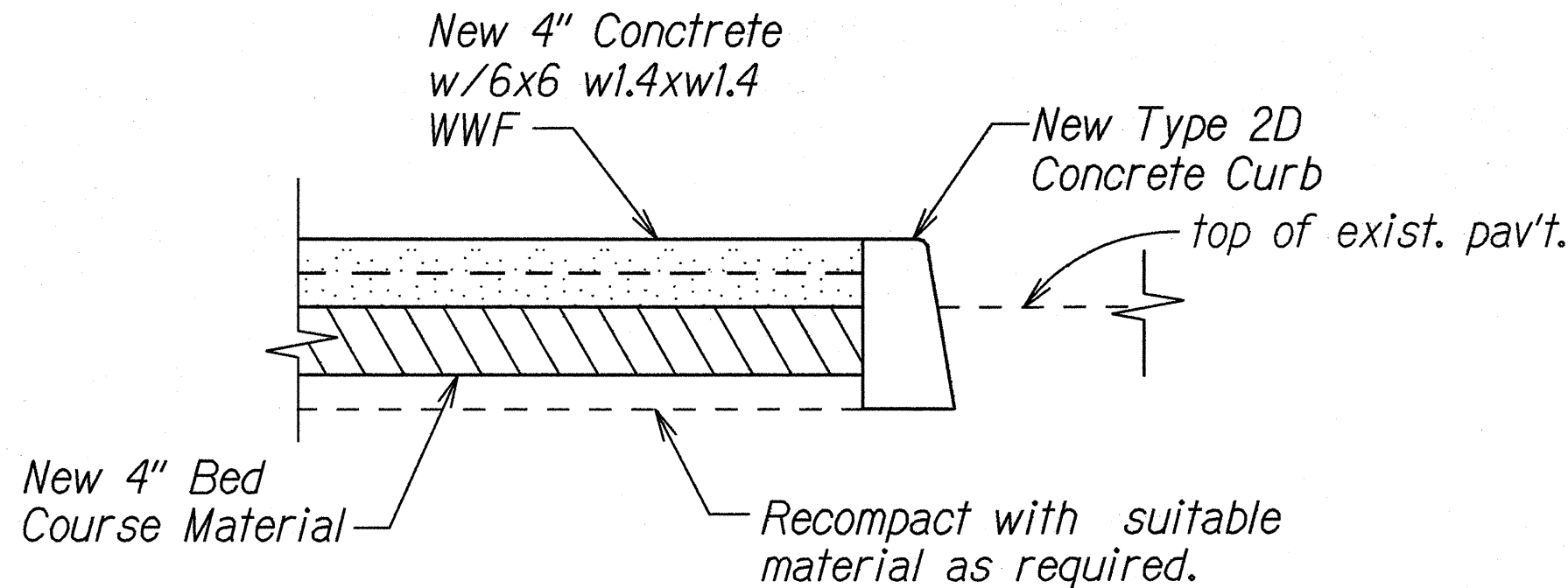


**GENERAL NOTES:**

- When necessitated by existing physical conditions, alternate Curb Ramps may be used subject to Engineer's approval.
- Subject to field conditions, the Engineer shall determine final location of Curb Ramp.
- Where necessary, pullboxes, handholes, manholes, etc. shall be adjusted to match Curb Ramp grade.
- All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation.
- Narrow Sidewalks (3'-0" min. width excluding curb) will prohibit the installation of any sign posts, utility poles, fire hydrants, traffic signals standards, light poles, etc. in the sidewalk, which will prevent a 3'-0" wide clear zone for pedestrian circulation. Also, Narrow Sidewalks shall require a minimum 6'-0" wide by 10'-0" long passing space at intervals not to exceed 200 feet.
- If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of way.
- Single curb ramps serving two street crossing directions is prohibited in new construction.
- Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles etc.) shall meet the current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.
- Demolishing and removal of existing reinforced concrete sidewalk shall be incidental to Item No. 608.1100 Reinforced Concrete Sidewalk.



**TYPICAL CROSSWALK STRIPING  
AT CURB RAMP**  
Not to Scale



**TYPICAL SECTION - RAISED MEDIAN ISLAND**  
Not to Scale

**NOTE:**

Installation of Bed Course Material and recompaction with suitable material shall be incidental to Item No. 608.1100 Reinforced Concrete Sidewalk.

SURVEY PLOTTED BY	DATE
DRAWN BY P. Wong, MH	5-23-97
CHECKED BY T. L. Chou, K. To	
NOTES	
delgrace	
QUANTITIES BY	
CHECKED BY	
N. Gledhill	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

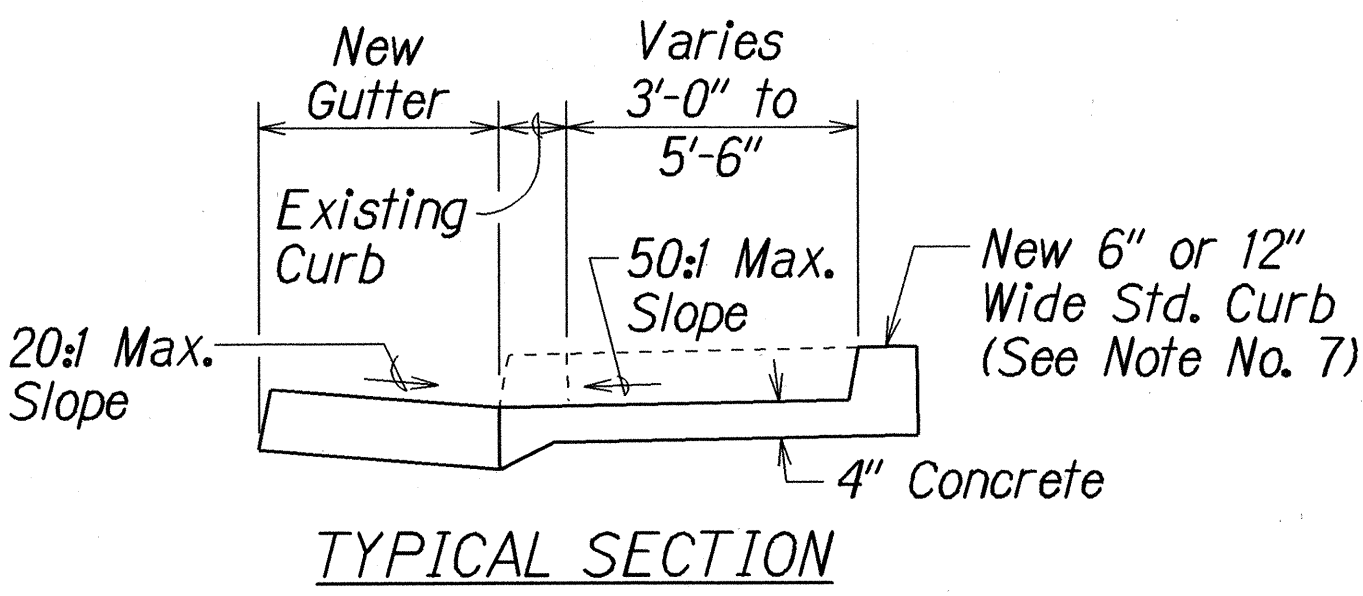
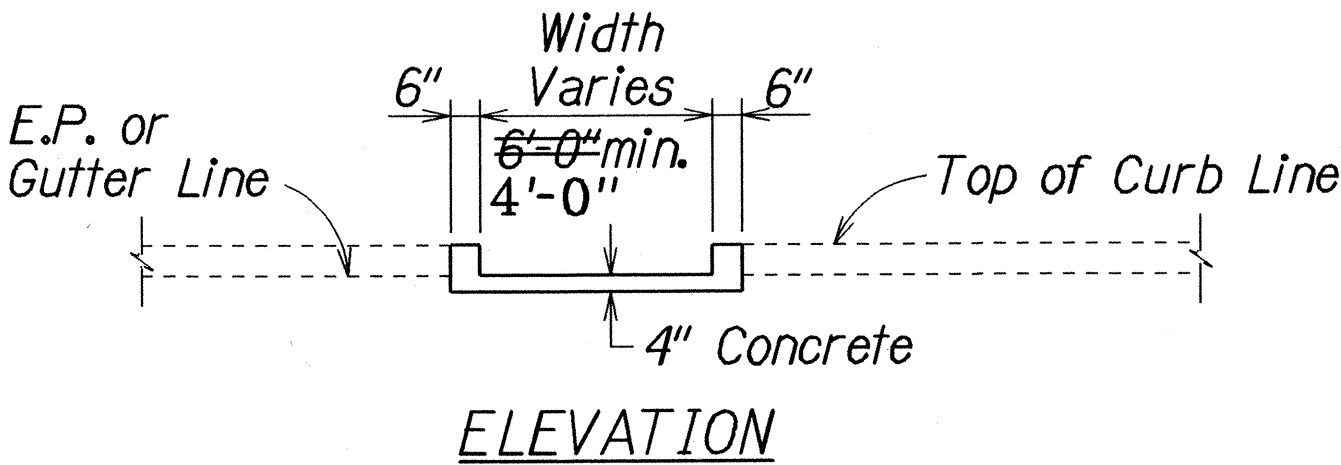
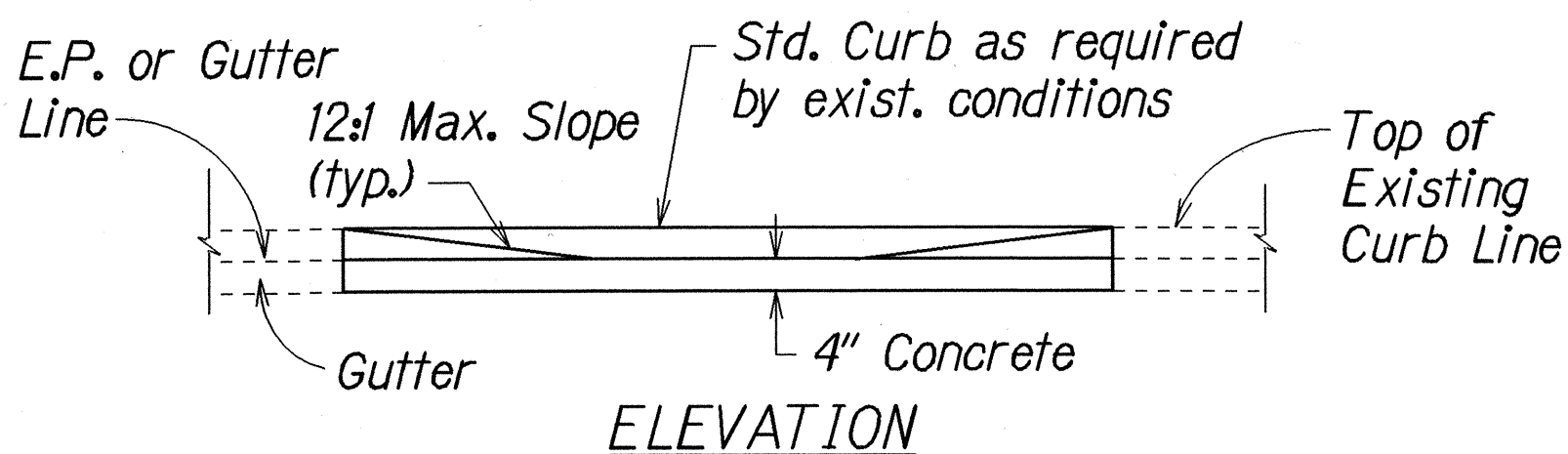
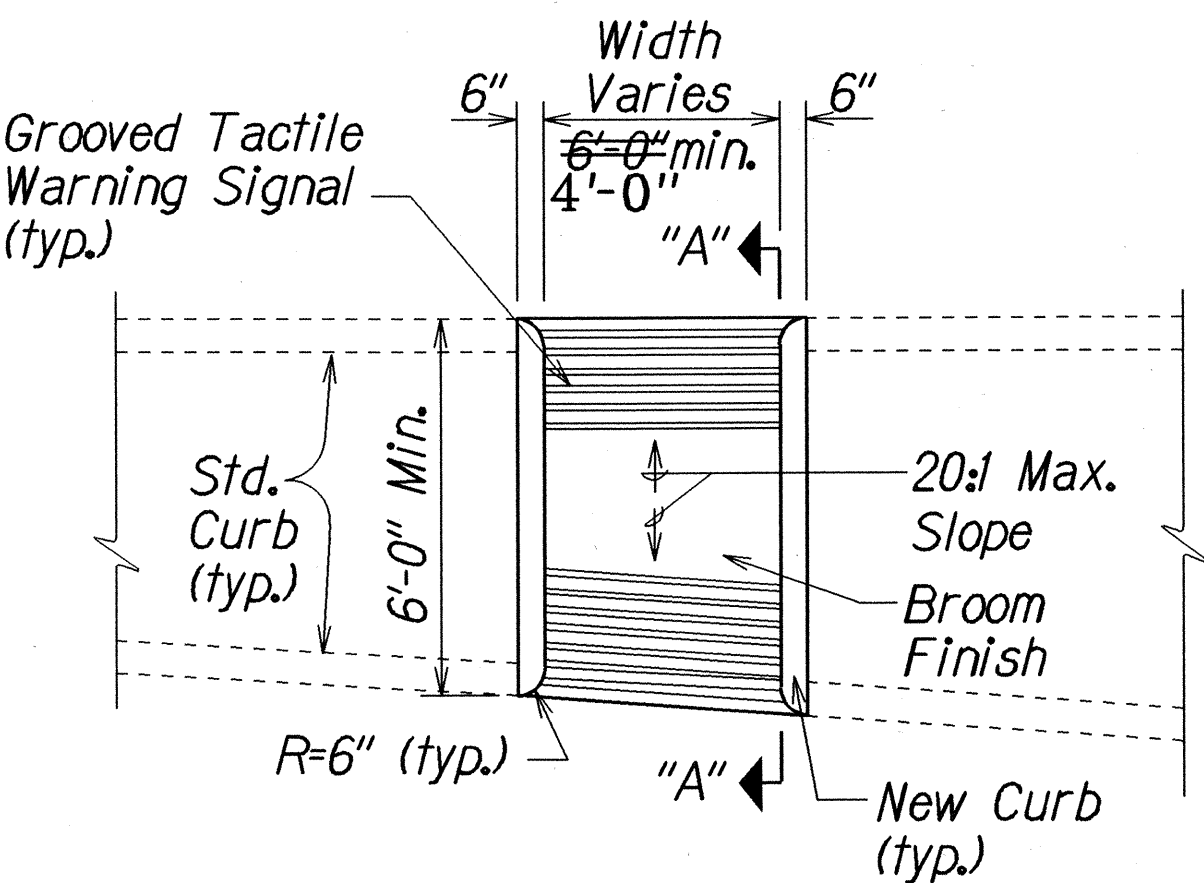
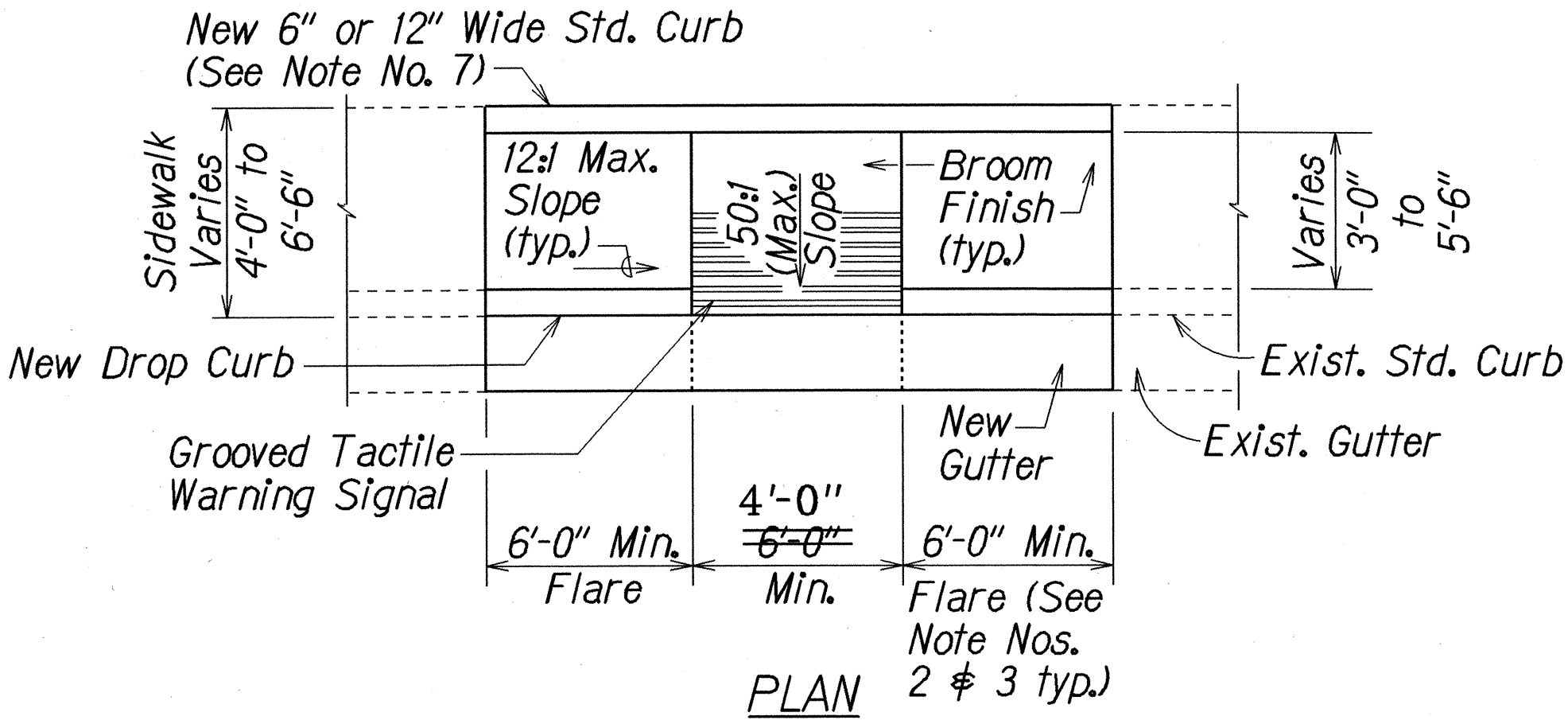
**CURB RAMP DETAIL**  
KALANIANA'OLE HWY. RESURFACING  
Keahole St. to Hanauma Bay  
Proj. No. 72BC-01-97M  
Scale: As Noted  
Date: May, 1997

SHEET No. 1 OF 2 SHEETS

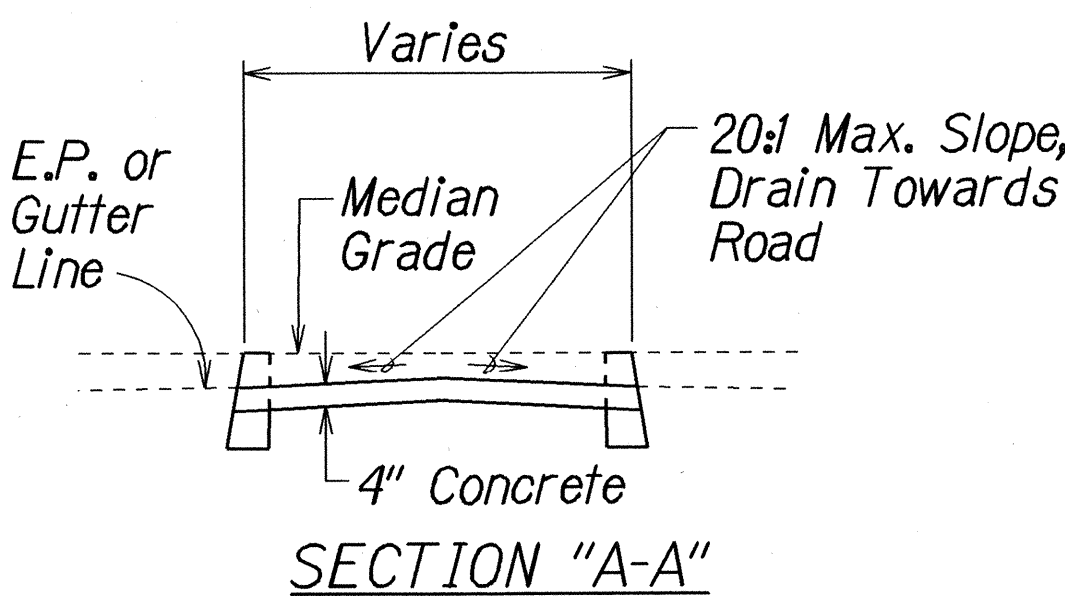
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72BC-01-97M	1997	13	32

CURB RAMP NOTES:

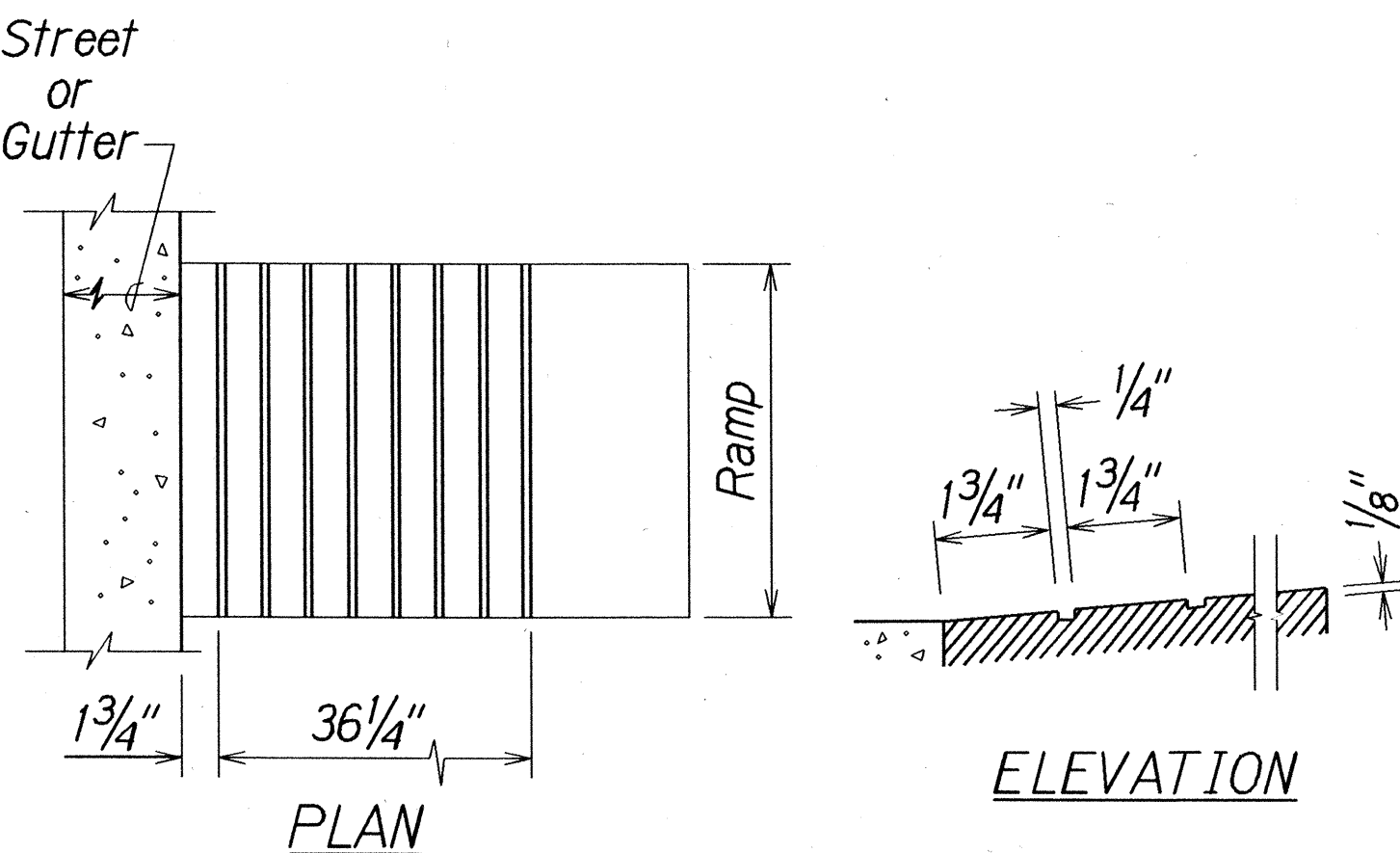
1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1 maximum. Areas without a gutter shall be handled on a case by case basis in order to meet the 20:1 maximum slope requirement.
2. The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 maximum to the existing gutter slope.
3. When the curb exceeds the standard 6" height, the side flares and ramp may be greater than 6'-0" in order to meet the 12:1 maximum slope requirement.
4. Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
5. All new adjacent sidewalks should have a minimum width of ~~6'-0"~~ 4'-0" excluding the curb and the cross slope shall not exceed 50:1.
6. The Contractor shall use the Edge of Pavement (E.P.) fronting the new curb ramp or gutter as the control elevation when constructing the New Curb Ramp or Curb Ramp with gutter.
7. The New Standard Curb shall be 12" wide at signalized intersection or mid-block pedestrian crossings. For sidewalk width, excluding curb, is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp and a 12" wide standard curb shall be installed.



CURB RAMP - TYPE "B"  
SIDEWALK WIDTH 4'-0" OR GREATER  
BUT LESS THAN 7'-0" WIDTH  
(FOR EXISTING SIDEWALK ONLY)



CURB RAMP - TYPE "C"  
USE AT MEDIAN CROSSINGS, ISLANDS



GROOVED TACTILE WARNING SIGNAL

DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAIL**  
KALANIANA'OLE HWY. RESURFACING  
Keahole St. to Hanauma Bay  
Proj. No. 72BC-01-97M  
Not to Scale  
Date: May, 1997

SHEET No. 2 OF 2 SHEETS