

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H20(3)	1998	2	51

STANDARD PLAN NO.	TITLE	DATE
B-01	Notes and Miscellaneous Details	07/01/86
B-02		
B-03	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

D-01	Chain Link Fence With Toprail	r03/06/87
D-02	Chain Link Fence Without Toprail	r07/26/90
D-03	Wire Fence With Metal Posts	07/01/86
D-04 ●	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07 ●	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11	Project Site Laboratory	07/01/86
D-12	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86

H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07	Type F Storm Drain Manhole	07/01/86
H-08	Catch Basin and Manhole Casting	07/01/86
H-09	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-01 ●	Miscellaneous Sign Details	07/01/86
TE-02	Galvanized Flanged Channel Sign Post Mounting	07/01/86
TE-03 ●	Galvanized Square Tube Sign Post Mounting	07/01/86
TE-04 ●	Regulatory Signs	r09/01/87
TE-05 ●	Warning Signs	07/01/86
TE-06 ●	Miscellaneous Signs	r11/03/89
TE-07	Reserved	07/01/86
TE-08 ●	Construction Signs	r09/01/87
TE-09 ●	Miscellaneous Intersection Signs	r03/06/87
TE-10	Reserved	07/01/86
TE-11	Bike Route Sign and Supplementary Plates	07/01/86
TE-12 ●	State Route Marker and Auxiliary Markers	07/01/86
TE-13	Interstate Route Marker	07/01/86
TE-14 ●	State Route Marker and Border Detail for Guide Signs	07/01/86
TE-15 ●	Route Marker Assemblies	07/01/86
TE-16 ●	Miscellaneous Reflector Markers	07/01/86
TE-17 ●	Type II Object Markers	07/01/86
TE-18 ●	Mileposts	07/01/86
TE-19	Reserved	07/01/86
TE-20	Overhead Sign Supports	07/01/86
TE-21	Overhead Sign Support, Box Truss Type, Aluminum	07/01/86
TE-22	Foundation Details and Schedules	07/01/86
TE-23 ●	Supports for Ground Mounted Guide Sign	r11/03/89
TE-24 ●	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/86
TE-25	Laminated Aluminum Sign Panels (Overhead)	07/01/86
TE-26 ●	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27 ●	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28	Guide Signs Luminaire Mountings	07/01/86
TE-29	Reserved	07/01/86
TE-30 ●	Raised Pavement Markers and Striping	r05/09/90
TE-31 ●	Miscellaneous Pavement Markings	r05/09/90
TE-32 ●	Miscellaneous Pavement Markings	r05/09/90
TE-33 ●	Miscellaneous Pavement Markings	r11/03/89
TE-34	Reserved	07/01/86
TE-35 ●	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-36 ●	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-37	Reserved	07/01/86
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/89
TE-39	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r11/03/89
TE-41	Pullboxes	07/01/86
TE-42	Type III Traffic Signal Standard	07/01/86
TE-43	Concrete Pullbox (2' x 3')	07/01/86
TE-44	Reserved	07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50 ●	Metal Guardrail	r03/06/87
TE-51 ●	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57 ●	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87
TE-66	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r11/03/89
TE-69	Wheelchair Ramps	r11/03/89

DATE: 11/13/91

SURVEY PLOTTED BY: P. Kihaka

ORIGINAL PLAN: 009Ami

TRACED BY: N. Medeiros

NOTE BOOK: 009Ami

QUANTITIES BY: N. Medeiros

CHECKED BY: N. Medeiros

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-07 ●)

02/15/91	REVISED H-19
10/16/90	REVISED H-16, H-17, H-22 & H-23
07/26/90	REVISED D-02
07/16/90	REVISED B-12, B-13
05/09/90	REVISED TE-30, TE-31 & TE-32
11/03/89	REVISED TE-06, TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69, ADDED TE-57A
09/01/87	REVISED TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69
03/06/87	REVISED D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
F.A. Project No. STP-H20(3)

Date: July, 1998

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H20(3)	1998	3	51

GENERAL NOTES

- The scope of work for this project consists of cold planing and resurfacing travelway & shoulders, constructing sidewalks, concrete bus stops, and wheelchair ramps; replacing guardrail; upgrading bridge railings; adjusting manholes; replacing signs and reflector markers; and installing pavement markings.
- The intent of this project is to resurface subject ramps with Superpave Asphalt Concrete Pavement (an experimental surface course) and to adjust the top of pavement to the original ramp grade.
- The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- The Contractor's attention is directed to the following Sections of the Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -Traffic Control.
- At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- The exact locations and limits of cold planing and resurfacing shall be determined in the field by the Engineer.
- The Contractor shall notify in writing, the Oahu Transit Services, Inc. Roads Supervision Office, 811 Middle St., Hon., HI 96819 (ph. #848-4571) seven (7) days prior to any paving operations.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Superpavement and will not be paid for separately.
- All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. V.
- Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
- Dressing of shoulders and sidewalk shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved areas adjacent to the shoulders and sidewalks with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.

- Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
- The Contractor shall provide for access to and from all existing side streets at all times.
- The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the various contract items.
- The Contractor may furnish Plant Mix Asphalt Concrete Base Course instead of Plant Mix Glassphalt Concrete Base Course if necessary. (Refer to Subsection 312.03 - Construction Requirements.)
- The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items, and will not be paid for separately.
- The Contractor shall exercise caution when working near existing sprinkler lines. The Contractor shall be held liable for any damage caused to the existing sprinkler system as a result of his operations.

COLD PLANING NOTES

- All saw cutting work shall be considered incidental to Cold Planing and will not be paid for separately.
- Exposure of existing aggregate base is possible when cold planing deeper than 4 inches. (Refer to typical sections for existing pavement structure.) The Contractor shall pave over exposed existing aggregate base with new Base Course at the end of each day, as follows (unless otherwise noted):
The Contractor shall compact the existing aggregate base in accordance with Section 304 - Aggregate Base Course. This preparation work shall be considered incidental to the new Base Course, and will not be paid for separately.
- The vertical pavement drop-off shall not exceed 3-inches. If a vertical pavement drop-off exists at the end of each day's cold planing and paving, the Contractor shall provide a wedge with a 48:1 minimum transition taper for transverse drop-off and no steeper than 6:1 for longitudinal drop-off, as approved by the Engineer. This work shall be considered incidental to Cold Planing.
- The Contractor shall lower manholes prior to Cold Planing, backfill with hot mix and re-adjust after final paving. Covering of lowered manholes shall be considered incidental to Manhole Adjustments.
- The Contractor shall remove asphalt concrete from existing gutters and swales and shall exercise caution in doing so. The Contractor shall be held liable for any damage caused to the gutters by this removal. This work shall be considered incidental to Cold Planing.

LEGEND

- Pavement Grade Transitions Areas
- Resurfacing Limits
- Concrete Rubble Masonry
- P.C.C. Pavement
- Existing Guardrail
- New Guardrail
- Existing Right-of-Way
- Existing Fence
- Existing Highway Lighting Standard
- Existing Highway Lighting Conduit
- Existing Bench Mark
- Existing Monument
- Adjusted Monument
- Existing Electrical Line
- Existing Power Pole
- Existing Electric Manhole
- Adjusted Electric Manhole
- Existing Hawaiian Tel Line
- Existing Hawaiian Tel Pullbox
- Existing Hawaiian Tel Manhole
- Adjusted Hawaiian Tel Manhole
- Existing 30" Water Line
- Existing Water Manhole
- Existing Fire Hydrant
- Adjusted Water Manhole
- Existing Sewer Line
- Existing Sewer Manhole
- Adjusted Sewer Manhole
- Existing Gas Manhole
- Existing 6" Gas Line
- Adjusted Gas Manhole
- Existing 24" Drain Line
- Existing Storm Drain Manhole
- Adjusted Storm Drain Manhole
- Existing Drop Inlet
- Existing Catch Basin
- Existing Traffic Signal Conduit
- Existing Traffic Signal Pullbox
- Existing Traffic Signal Pole
- Adjusted Traffic Signal Pullbox

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
F.A. Project No. STP-H20(3)
Date: July, 1998

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	1/15/98
DESIGNED BY	TRACED BY	
CHECKED BY		
4/15/98		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H20(K3)	1998	4	51

A.C. CORE LOCATIONS Before Pavement Demolition		
RAMP RH-I		
9+50±	Center	Lane
13+00±	Center	Lt. Lane
14+50±	Center	Rt. Lane
SOUTH FRONTAGE ROAD		
4+50±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
15+50±	Center	Rt. Lane
26+00±	Center	Rt. Lane
RAMP ML-I		
2+50±	Center	Lt. Lane
6+50±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
9+50±	Center	Lane
RAMP RH-O		
1+00±	Center	Lt. Shoulder
5+00±	Center	Lt. Shoulder
10+00±	Center	Lt. Shoulder

A.C. CORE LOCATION After Pavement Reconstruction		
RAMP RH-I		
5+50±	Center	Lane
7+50±	Center	Lane
10+00±	Center	Lane
12+50±	Center	Lt. Lane
15+00±	Center	Rt. Lane
SOUTH FRONTAGE ROAD		
2+50±	Center	Lt. Lane
5+00±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
7+50±	Center	Rt. Lane
10+00±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
12+50±	Center	Lt. Lane
15+50±	Center	Rt. Lane
17+50±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
20+00±	Center	Lt. Lane
22+50±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
25+00±	Center	Rt. Lane
27+50±	Center	Lt. Lane
RAMP ML-I		
3+00±	Center	Lt. Lane
6+00±	Long. Pave. Joint	Betw. Rt. & Lt. Lanes
9+00±	Center	Lane
12+00±	Center	Lane

GENERAL RESEARCH NOTES:

1. Research operations (including core & uncompacted a.c. samples and traffic control) shall be considered incidental to Superpave Asphalt Concrete Pavement and shall not be paid for separately.

CORING NOTES:

1. Construction of the A.C. Pavement will be documented through video recordings and visual observations as part of a research project. These surveys will be done by HWY's personnel and are not expected to interfere with construction operations.
2. The exact locations of cores shall be determined in the field by personnel from the HWY Material Testing Lab (HWY-L). The Contractor shall notify HWY-L in writing, one (1) week prior to starting coring operations to schedule the location of cores.

3. The Contractor shall provide cores of approximate dimensions as follows:

Diameter: 4"

Depth (Top of Pav't. to Top of Subbase)

	Before Construction	After Construction
RH-O:	10-1/2"	8-1/2"
RH-I:	10-1/2"	8-1/2"
South Frontage Road:	10-3/4"	8-1/2"
ML-I:	10-1/4"	

4. The Contractor shall restore pavement at core locations before opening ramps to traffic. This restoration shall be done by compacting Mix IV or Superpave A.C. into core holes.
5. The Contractor shall provide adequate traffic control for coring operations.
6. The Contractor shall mark cores with proper location identification prior to submittal to HWY-L.

UNCOMPACTED A.C. NOTES:

1. The Contractor shall provide uncompacted A.C. samples, according to the "After Pavement Reconstruction" schedule as follows:
Box Size: 8-1/4" x 8-1/4" x 8-1/2"
Boxes per Location: 2
2. The Contractor shall provide uncompacted A.C. samples from the mat behind the paver or from the paver hopper. Samples shall not be obtained from the wings of the hopper or from the beginning or ending of the discharge from the delivery truck.
3. The Contractor shall mark boxes with proper location identification prior to submittal to HWY-L.

PROFILOGRAPH NOTE:

1. The Contractor shall provide 2 working days of traffic control for profilograph testing along Ramps RH-I & ML-I and South Frontage Road following the completion of paving operations.

DATE	11/5/98
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	B. Kimbela
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	ddg/m
FILED	N:\madsch12

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RESEARCH NOTES
& SCHEDULES
MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
F.A. Project No. STP-H20(K3)
Date: July, 1998

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H201(3)	1998	5	51

ADJUSTING WATER MANHOLES ITEM NO. 604.4265	
Ala Napunani St. # Station	Quantity
8+40±	1
TOTAL	1

ADJUSTING STORM DRAIN MANHOLES ITEM NO. 604.4200	
Sa. Frontage Rd. \$ Station	Quantity
0+22±	1
1+00±	1
13+88±	1
TOTAL	3

ADJUSTING TRAFFIC SIGNAL BOX ITEM NO. 623.1000	
Ramp RH-I \$ Station	Quantity
15+44±	1
Sa. Frontage Rd. \$ Station	
0+70±	1
TOTAL	2

ADJUSTING STANDARD C&C MONUMENTS ITEM NO. 614.0300	
Red Hill Access Rd. # Station	Quantity
(-)0+40±	1
2+28±	1
3+58±	1
4+22±	1
5+99±	1
(New) Forward St. \$ Station	
0+00±	1
0+53±	1
(Old) Forward St. \$ Station	
0+00	1
0+59±	1
0+88±	1
Sa. Frontage Rd. \$ Station	
9+50±	1
13+20±	1
19+54±	1
24+80±	1
29+03±	1
Ramp ML-I \$ Station	
0+00±	1
TOTAL	16

ADJUSTING SEWER MANHOLES ITEM NO. 604.4340	
(Old) Forward St. \$ Station	Quantity
1+32±	1
(New) Forward St. \$ Station	
(-) 0+11±	1
TOTAL	2

ADJUSTING TELEPHONE MANHOLES ITEM NO. 604.4700	
Ramp RH-I \$ Station	Quantity
11+87±	1
Forward Street \$ Station	
1+60±	1
Sa. Frontage Rd. \$ Station	
4+40±	1
10+30±	1
15+95±	1
21+00±	1
25+70±	1
TOTAL	7

ADJUSTING ELECTRIC MANHOLES ITEM NO. 604.4600	
Ramp RH-I \$ Station	Quantity
11+82±	1
Sa. Frontage Rd. \$ Station	
0+50±	1
5+30±	1
10+05±	1
10+20±	1
15+80±	1
20+83±	1
25+60±	1
TOTAL	8

ADJUSTING GAS MANHOLES ITEM NO. 604.4750	
Ramp ML-I # Station	Quantity
1+30±	1
TOTAL	1

ORIGINAL PLAN	SURVEY DATED BY	DATE
NOTED	DRAWN BY	11/15/98
DESIGNED BY	DESIGNED BY	
CHECKED BY	CHECKED BY	
IN-CHARGE	IN-CHARGE	

Note: Refer to Plan Sht. No. 3 , Cold Planing Note No. 4 , concerning manhole adjustments.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**UTILITY & MONUMENT
ADJUSTMENT SCHEDULES**
MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
F.A. Project No. STP-H201(3)
Date: July, 1998

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-H20(3)	1998	6	51

(1) The Contractor shall inspect the erosion and sediment control measures at least once a week or after 0.5 inches of rainfall.

(a) When sediment build-up reaches one-third (1/3) the height of the silt fence, the Contractor shall remove and dispose of the sediment build-up from the silt fence.

(c) When tears are found on the silt fence, the Contractor shall replace the fabric.

(e) The Contractor shall inspect the diversion dike and repair the breaches.

(3) The Contractor shall have its personnel make a maintenance inspection report promptly after each inspection. The Contractor shall select a minimum of three (3) personnel who will be responsible for inspection, maintenance, repair activities, and filling out the inspection and maintenance report. Personnel selected for the inspection and maintenance responsibilities will receive training from the Contractor. The Contractor shall train these personnel in the inspection and maintenance practices necessary for keeping the erosion and sediment used onsite according to the contract.

(1) Construction activities of five (5) acres or more.

(b) No construction activities will be authorized until the Contractor's Site-Specific BMP has been approved by the Highways Division.

(a) Discharges into State waters due to dewatering and/or hydrotesting activities will require NPDES Permit(s) from DOH. If the Contractor options to discharge dewatering and/or hydrotesting effluent into State waters, the Contractor shall submit to the Engineer four (4) sets of Site-Specific Dewatering and/or Hydrotesting BMP, and four (4) copies of the Quality of Discharge Test results. The Plans and test results shall be submitted no later than thirty (30) calendar days after the award of Contract.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NPDES GENERAL NOTES

MOANALUA FREEWAY RAMPS RESURFACING
Vicinity of Ala Kapuna to Vicinity of Ala Napunani
F.A. Project No. STP-H201(3)

Not to Scale *Date: July, 1998*

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY <i>A. Monura</i>	<i>X</i>
<i>dd9.kmi</i>	TRACED BY	
<i>4noodnpde</i>	DESIGNED BY <i>P. Kinneka</i>	
	QUANTITIES BY	
	CHECKED BY	