# STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	78A-01-02M	2002	2	92

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-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

A1, B1, C1 and D1 Catch Basin  A2, B2, C2 and D2 Catch Basin  ical Reinforcing Details for Catch Basins  A, B and C Storm Drain Manhole  D and E Storm Drain Manhole  F Storm Drain Manhole  Ch Basin and Manhole Casting  A-9 and A-9P Frames and Grates  A-9B Frames and Grates  6 61614 and 61214 Grated Drop Inlet	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86
ical Reinforcing Details for Catch Basins  e A. B and C Storm Drain Manhole  e D and E Storm Drain Manhole  e F Storm Drain Manhole  ch Basin and Manhole Casting  e A-9 and A-9P Frames and Grates  e A-9B Frames and Grates	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86
A. B and C Storm Drain Manhole D and E Storm Drain Manhole F Storm Drain Manhole Ch Basin and Manhole Casting A-9 and A-9P Frames and Grates A-9B Frames and Grates	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86
e D and E Storm Drain Manhole e F Storm Drain Manhole ch Basin and Manhole Casting e A-9 and A-9P Frames and Grates e A-9B Frames and Grates	07/01/86 07/01/86 07/01/86 07/01/86
e F Storm Drain Manhole  ch Basin and Manhole Casting  e A-9 and A-9P Frames and Grates  e A-9B Frames and Grates	07/01/86 07/01/86 07/01/86
ch Basin and Manhole Casting e A-9 and A-9P Frames and Grates e A-9B Frames and Grates	07/01/86 07/01/86
e A-9 and A-9P Frames and Grates e A-9B Frames and Grates	07/01/86
e A-9B Frames and Grates	
	07/01/86
e 61614 and 61214 Grated Drop Inlet	01/01/00
	07/01/86
e 61616 Grated Drop Inlet	07/01/86
14, 61614 & 61616 Steel Frames and Grates	07/01/86
14B Steel Frame and Grates	07/01/86
14B Steel Frame and Grates	07/01/86
crete and Cement Rubble Masonry Structures	r10/16/90
et Structures	r10/16/90
red End Section for Culverts	07/01/86
let Structures	r02/15/91
crete Spillway Inlet	07/01/86
Slotted C.M.P. Drain	07/01/86
P. Coupling Details Standard Joint	r10/16/90
Shaped Coupling Band	r10/16/90
	red End Section for Culverts  let Structures crete Spillway Inlet Slotted C.M.P. Drain .P. Coupling Details Standard Joint Shaped Coupling Band

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

STANDARD PLAN NO.		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					
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	r07/18/94				
TE-69	Wheelchair Ramps	r07/18/94				

NOTE: STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "● " NEXT TO THE STANDARD PLAN NUMBER.





STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

MOANALUA FREEWAY LIGHTING IMPROVEMENTS KAMEHAMEHA HIGHWAY TO HI HALAWA INTERCHANGE PROJ. NO. 78A-01-02M

Scale: As Noted

Date: May 2002

SHEET No. T-2 OF 5 SHEETS

## GENERAL NOTES:

- \*The scope of work for this project consists of highway lighting improvements; repairing and rehabilitating the existing pavement by cold planing, removing and installing guardrails; guardrail end treatments; upgrading ADA-Facilities; installing pavement markings, and other incidentals.
- The Contractor is reminded of the requirements of Subsection 108.01 -Subletting of Contract. Non-compliance with this subsection may be grounds for rejection of bid.
- 3. 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.
- 5. 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.
- 6. The exact locations and limits or areas to be reconstructed and cold planed shall be determined in the field by the Contractor and approved by the Engineer.
- 7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- 8. 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 commencement of any
- All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Superpave prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Superpave.
- 10. 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.
- The Contractor shall clean and remove any accumulation of aggregates and debris along the roadside within 10 feet of the edge of pavement. 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.

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# GENERAL NOTES (cont.)

- 13. The Contractor shall provide for access to and from all existing side streets at all times.
- 14. All saw cutting work shall be considered incidental to various contract
- 15. 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.

HTEL Existing Verizon Hawaii Telephone Box

HTEL Adjusted Verizon Hawaii Telephone Box

HECO Existing Hawaiian Electric Co. Box

HECO New Hawaiian Electric Co. Box

CATV Existing Cable TV Box

Z CATV Adjusted Cable TV Box

CATV New Cable TV Box

HECO Adjusted Hawaiian Electric Co. Box

## **LEGEND**

Existing A.C. Pavement
Resurfacing Area
Pavement Reconstruction
Concrete

- -- tb-- **Top Bank** --bb-- **Bottom Bank**
- -EOHE#T- Existing Overhead Electric And Telephone ----E--- New Electrical Line
- ----T--- New Telephone Line
- ° to Existing Telephone Pole • TP New Telephone Pole
- TP New Telephone Pole w/Guy Wire
- °<sub>DD</sub> Existing Telephone Pole •PP New Telephone Pole
- PP New Power Pole w/Guy Wire
- EW 12 Existing Water Line w/Size
- -W-12- New Water Line w/Size ° wmh Existing Water Manhole
- \*wmh Adjusted Water MH Frame/Cover
- WMH New Water Manhole
- Existing Water Valve Box
- wv Adjusted Water Valve Box
- wv New Water Valve Box Existing Water Meter
- "WM Adjusted Water Meter
- WM New Water Meter Existing Fire Hydrant
- →<sub>FH</sub> New Fire Hydrant
- ES 8 Existing Sewer Line w/Size
- —S-12— New Sewer Line w/Size °smh Existing Sewer Manhole
- \*SMH Adjusted Sewer MH Frame/Cover
- •SMH New Sewer Manhole
- —ED 36 Existing Drain Line w/Size <u>24" RCP</u> New Drain Line w/Size
  - °sdmh Existing Storm Drain Manhole \*SDMH Adjusted Storm Drain MH Frame/Cover
  - SDMH New Storm Drain Manhole
  - Existing Grated Drop Inlet Existing Catch Basin
  - Existing Traffic Sign
  - Existing Highway Lighting Standard
  - \*wow Adjusted Sturvey Monument

# **ABBREVIATIONS**

FED. ROAD

DIST. NO.

STATE

HAW.

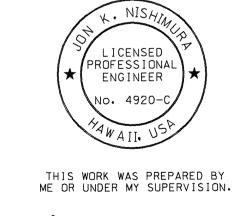
PROJ. NO.

78A-01-02M

FISCAL SHEET TOTAL YEAR NO. SHEETS

2002 | 3 | 92

Az	Azimuth
BL	Base Line
Conc.	Concrete
CCH	City and County of Honolulu
Exist.	Existing
LT.	Left
0/5	Off Set
RT.	Right
R/W	Right-of-Way
SL	Station Line
Sta.	Station
TYP.	Typical
W/ /	With

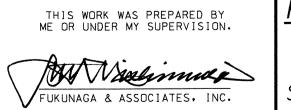


STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

MOANALUA FREEWAY LIGHTING IMPROVEMENTS KAMEHAMEHA HIGHWAY TO HI HALAWA INTERCHANGE PROJ. NO. 78A-01-02M

Oahu, Hawaii Scale: As Noted



SHEET No. 7-3 OF 5 SHEETS

Date: May 2002

## WATER POLLUTION AND EROSION CONTROL NOTES:

#### A. GENERAL:

- 1. The Contractor is reminded of the requirements of Section 209 -Water Pollution and Erosion Control, in the "Hawaii Standard Specifications for Road, Bridge and Public Works Construction". Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment.
- 2. The Contractor shall follow the guidelines in the "Best Management" Practices Manual for Construction Sites in Honolulu", dated May 1999 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
- The Engineer may assess liquidated damages of up to \$25,000 for non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- 4. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.

#### B. WASTE DISPOSAL:

Waste Materials

All waste materials shall be collected and stored in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. All trash and construction debris from the site shall be deposited in the dumpster. The dumpster shall be emptied a minimum of twice per week or as often as is deemed necessary. No construction waste materials shall be buried onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Notices stating these practices shall be posted in the office trailer and the Contractor shall be responsible for seeing that these procedures are followed.

2. Hazardous Waste

All hazardous waste materials shall be disposed of in the manner specified by local or State regulation or by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.

Sanitary Waste

All sanitary waste shall be collected from the portable units a minimum of once per week, or as required.

- C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
  - All control measures shall be inspected at least once each week and following any rainfall event of 0.5 inches or greater.
  - All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
  - Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
  - Silt screen or fence shall be inspected for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground.

- 5. Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- 6. A maintenance inspection report shall be made promptly after each inspection by the Contractor.
- 7. The Contractor shall select a minimum of three personnel who shall be responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- 8. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

# D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

Materials Pollution Prevention Plan

a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

Concrete Detergents Paints (enamel and latex) Metal Studs

Fertilizers Petroleum Based Products Cleaning Solvents Wood

- b. Material Management Practices shall be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. An effort shall be made to store only enough product as is required to do the job.
- c. All materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- d. Products shall be kept in their original containers with the original manufacturer's label.
- e. Substances shall not be mixed with one another unless recommended by the manufacturer.
- f. Whenever possible, a product shall be used up completely before disposing of the container.
- g. Manufacturer's recommendations for proper use and disposal shall be followed.
- h. The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.
- Hazardous Material Pollution Prevention Plan
  - a. Products shall be kept in original containers unless they are not resealable.
  - b. Original labels and material safety data sheets (MSDS) shall be retained.
  - c. Surplus products shall be disposed of according to manufacturers' instructions or local and State recommended methods.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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- Onsite and Offsite Product Specific Plan
  - a. The following product specific practices shall be followed onsite:
    - 1) Petroleum Based Products: All onsite vehicles shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products shall be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite shall be applied according to the manufacturer's recommendations.
    - 2) Fertilizers:

Fertilizers used shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil to limit exposure to storm water. Storage shall be in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.

3) Paints:

All containers shall be tightly sealed and stored when not required for use. Excess paint shall not be discharged to the highway drainage system but shall be properly disposed of according to manufacturers' instructions or State and local requirements.

4) Concrete Trucks:

Concrete trucks shall be allowed to wash out or drum wash water only at designated site. Water shall not be discharged in the highway drainage system or waters of the United States. The Contractor shall contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. The Contractor shall clean disposal site as required or as requested by the Owner's representative.

b. Offsite Vehicle Tracking:

A stabilized construction entrance shall be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance shall be cleaned daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Dump trucks hauling material from the construction site shall be covered with a tarpaulin.

Spill Control Plan

- a. A spill prevention plan shall be posted and adjusted to include a description and cause of each spill, measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. The Contractor shall designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel shall be posted in the material storage area and in the office trailer onsite.



STATE OF HAWAII CONSTRUCTION NOTES (SHEET 1 OF 2) MOANALUA FREEWAY LIGHTING IMPROVEMENTS KAMEHAMEHA HIGHWAY TO HI HALAWA INTERCHANGE PROJ. NO. 78A-01-02M

Oahu, Hawaii Scale: As Noted

SHEET No. T-4 OF 5 SHEETS

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FUKUNAGA & ASSOCIATES, INC.

Date: May 2002

# WATER POLLUTION AND EROSION CONTROL NOTES: (cont.)

- c. Manufacturers recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies.
- d. Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite.
- e. All spills shall be cleaned up immediately after discovery.
- f. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the

### A. PERMIT REQUIREMENTS:

- If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities, the Contractor shall submit to the Engineer four sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.04 of the specifications.
- 2. If a NPDES Permit for Construction Dewatering is required, the Contractor shall obtain the Permit from the Department of Health, Clean Water Branch.
- 3. The Contractor shall comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:
  - a. NPDES Permit for Construction Activities
  - b. NPDES Permit for Construction Dewatering

## REQUIREMENTS OF STATE HISTORIC PRESERVATION DIVISION

Should historic sites such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, concentration of charcoal or shells are encountered during construction work, work shall cease in the immediate vicinity of the find and the find shall be protected from further damage. The Contractor shall immediately contact the State Historic Preservation Division (692-8015), which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary.

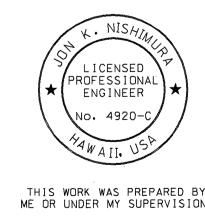
## DEMOLITION NOTES

- Underground utilities (sewer, water, siphons, drainage, electrical, etc.) as shown are for information only and were gathered from available plans within the project area. Therefore, the location and/or depth of these utilities are approximate and are not guaranteed by the Consultants nor by the State of Hawaii. The Contractor shall be responsible to determine the location of these utilities and shall see to it that his workmen or operators shall be apprised of the utilities existence and location.
- 2. Contractor shall coordinate with utility companies or appropriate agencies for the removal and relocation of existing utilities so that these works may proceed in a reasonable manner and will not delay the progress of the clearing, grubbing, and grading operations.
- 3. Any interruption of existing services shall be approved by the Director. Removal of existing utility lines and appurtenances shall be done only after the new utility systems are operational and accepted by the appropriate agencies.
- 4. The Contractor shall contact utilities prior to the start of clearing and arubbing to coordinate the work to be done by the utility's own forces as well as to obtain from them any information pertaining to existing utilities that will either supplement the information shown on the plans or will correct any such information that may be in error.
- 5. Abandoned pipes under the new pavement and graded areas that are within 36 inches of the finished grade shall be removed.
- Structures (concrete headwalls, etc.) to be removed shall be disposed of off-site to approved County dumpsite. Cost of disposal, including County dumpsite fees, shall be incidental to clearing and grubbing.
- 7. Utilities, signs and landscaping that are to be removed and/or relocated are shown on the plans.
- The cost of pavement removal under new pavements, grassed islands, and medians shall be incidental to the various contract items.

# COLD PLANING NOTES

	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
S	HAWAII	HAW.	78A-01-02M	2002	5	92

- All saw cutting work shall be considered incidental to Cold Planing and will not be paid for separately.
- The exact locations and limits or areas to be cold planed will be determined in the field by the Engineer.
- Prior to cold planing over an existing structure, the Contractor shall determine the actual depth of the existing asphalt concrete pavement. The Contractor shall take several cross section measurements throughout the structure. If the thickness of the existing pavement is less than the proposed resurfacing thickness, the Contractor shall remove the existing pavement to the level of the structure and resurface to the original thickness. This work shall be considered incidental to cold planing and will not be paid for separately.
- In cold planing the pavement over an existing structure, the Contractor shall exercise care not to damage any portion of the structure, especially the slab, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operations shall be repaired by the Contractor at no cost to the State. Repair work shall be as directed by the Engineer, The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered incidental to cold planing 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 days 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 along the lane line for longitudinal drop-off, as accepted by the Engineer. This work shall be considered incidental to Cold Planing. All transition tapers shall be removed prior to resuming the paving operations.
- Cold Planing equipment shall not be used in removing existing A.C. Pavement over concrete gutter unless otherwise indicated. This work shall be incidental to Cold Planing.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

EIKINACA PASSONIA

CONSTRUCTION NOTES (SHEET 2 OF 2) MOANALUA FREEWAY LIGHTING IMPROVEMENTS KAMEHAMEHA HIGHWAY TO HI HALAWA INTERCHANGE

PROJ. NO. 78A-01-02M

Oahu, Hawaii Date: May 2002

SHEET No. T-5 OF 5 SHEETS