

GENERAL NOTES

1. The scope of work for this project consists of reconstructing weakened pavement areas; repairing damaged sidewalks **and driveways; replacing guardrails;** upgrading existing accessible walkways, ramps and handrails; installing bike rails on Mahaikona Bridge; and reconstructing drainage facilities and replacing drain grates for bicycle safety.

2. The Contractor is reminded of the requirements of the 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.

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.

4. At the end of each day’s work, the Contractor shall remove all equipment and other obstructions within the State right-of-way to permit free and safe passage of public traffic, unless otherwise noted.

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 filled with leveling course, reconstructed and/or cold planed shall be determined in the field by the Engineer. Furnishing and placing leveling course shall be considered incidental to the various contract items.

7. All lanes shall be open to traffic during morning peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours from 3:30 P.M. to 6:00 P.M. and during off work hours. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.

8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.

9. The Contractor shall remove and dispose of all existing raised pavement markers and preformed pavement marking tape prior to the reconstruction work. This work shall be considered incidental to the Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.

10. Smooth riding connections shall be constructed at all limits of repair including the beginning and end of the project, connecting approaches, side streets, driveways and sidewalks as shown on the plans and/or as directed by the Engineer.

11. Dressing of shoulders, sidewalks and bus turnouts shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. The work shall be considered incidental to the various contract items.

12. Existing drainage systems will be functional at all times during construction. The Contractor will furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.

13. Existing earth swales shall remain free to drain. Work to remove silt and debris from the existing earth swale shall be considered incidental to the various contract items.

14. The Contractor shall provide for access to and from all existing side streets and driveways at all times, except with the consent of the owner.

15. All saw cutting work for pavement reconstruction shall be considered incidental to Item No. 651.0100 – Excavation for Reconstruction of Weakened Pavement Areas. All saw cutting work for concrete sidewalks shall be considered incidental to Item No. 608.1100 – Concrete Sidewalk.

16. Construction and restoration of all existing highway facilities within the State’s right-of-way shall be done in accordance with all applicable sections of the current STANDARD SPECIFICATIONS FOR ROAD, BRIDGE and PUBLIC WORKS CONSTRUCTION.

17. The Contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience, and safety of public streets. All such protective facilities and precautions to be taken shall conform with the current U.S. Federal Highways Administration “MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI – STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY AND INCIDENT MANAGEMENT OPERATIONS”.

18. No material and/or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations designated in writing and approved by the Engineer.

19. The minimum pavement structure shall be as noted on the plans.

20. The Contractor shall provide an adequate and safe non-skid bridging material, including shoring, over trenched pavement areas. The bridging shall be able to support all types of vehicular traffic.

21. All regulatory, guide, and construction signs and barricades shall have a high-intensity reflective background.

22. Where pedestrian walkways exist, they shall be maintained in a safe and passable condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided.

23. The Contractor shall exercise care when performing work in or adjacent to the State Highway right-of-way. Damages to existing facilities shall be immediately reported to the respective utility companies, and/or County or State agencies. The repair work shall be done at the Contractor’s expense.

24. Existing concrete or asphalt concrete curb disturbed during sidewalk and/or curb ramp reconstruction shall be replaced by the Contractor. This work shall be considered incidental to various Contract items.

25. Prior to his resurfacing and sidewalk repair operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade.

26. Prior to commencing his resurfacing operations, the Contractor shall contact the County of Kauai’s Department of Water Maintenance Branch (Phone No. 245-5444) and make arrangements for Department of Water personnel to “tone” for, and mark locations of existing valve boxes that may have been inadvertently paved over on previous resurfacing projects. It shall be the Contractor’s responsibility to offset and record locations of the valve boxes as marked by the Dept. of Water for purposes of adjusting the valve boxes to the new finished grades after completion of his resurfacing operations. The Contractor shall preserve all offset stakes marking locations of the valve boxes. If offset stakes are damaged or lost, it shall be the Contractor’s sole responsibility to survey and re-stake locations of the valve boxes. Payment for work involved in locating paved over water valve boxes shall not be paid for separately, but shall be considered incidental to Item No. 401.0400 – Asphalt Concrete Pavement, Mix No. IV.

27. Removal and disposal of existing guardrails and terminal ends and sections shall be considered incidental to the various contract items.

28. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to the various contract items.

29. All saw cutting shall be considered incidental to the various contract items.

30. Removal and disposal of existing sidewalks, curbs and gutters, curb ramps, driveways and excavation shall not be paid for separately but shall be considered incidental to the various contract items.

31. Limits of sidewalk removal shall coincide with an existing construction joint, transverse weakened plane joint, or transverse groove.

32. New construction joints, transverse weakened plane joints, and transverse grooves shall match the pattern of the adjacent existing sidewalks.

33. Roadway baseline azimuth and distances shown are from the below listed record drawings and right-of-way maps available at the Oahu office of the Department of Transportation.

From	To	Record Drawing
Begin Project	Sta. 206+00.49	Right of Way Map, Kauai Belt Road, Federal Aid Project 29-D(1)
Sta. 206+00.49	End Project	Resurfacing and Widening of a Portion of Kauai Belt Road, Mahaikona Bridge to Onaona Road, Project No. 50B-01-67.

DATE: 06/04/98  
PLOT SCALE: 1" = 1  
FILE: 9930-T3.DWG  
Job No: 9930

PM: JUN  
OPER: GKC, LSA\*, MAM  
REVISED: 12/14/00

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
NOTEBOOK	QUANTITIES BY	
	CHECKED BY	
No.		

JUNE J. NAKAMURA  
★  
LICENSED  
PROFESSIONAL  
ENGINEER  
No. 4376-C  
★  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION  
BY *June J. Nakamura*  
DATE: 12-14-00

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
GENERAL NOTES  
  
KAUMUALII HIGHWAY RESURFACING  
Mahaikona Bridge To Waimea Canyon Drive  
Project No. 50B-01-00M  
Scale: As Noted      Date: 12/13/00  
SHEET NO. T3 OF 6 SHEETS

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NOTES FOR CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY

1. All pavement shall be restored to it's original condition in accordance with County of Kauai, Hawaii Standard Specifications for Road and Bridge and Public Works Construction (1994) with 2" minimum A.C. and 8" base course.
2. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of the public traffic. All such protective facilities and precautions to be taken shall conform with the rules and regulations governing the use of traffic control devices at work sites on or adjacent to public streets and highways adopted by the Highway Safety Coordinator and U.S. Federal Highway Administration Manual on Uniform Traffic Control Devices for Streets and Highways, dated 1988 and its amendments.
3. The Contractor shall whenever necessary, properly sheet and brace all excavations to render it secure and shall remove all such sheeting and bracing before completion of the backfill for water mains. The minimum cover requirements (from top of pipe to finished grade over pipe) is three (3) feet.
4. a. A permit shall be obtained by the Contractor from the Department of Public Works, at the Contractor's expense.
- b. Driveways shall be kept open unless owners of the abutting lots using these right-of-ways are otherwise provided for satisfactorily.
- c. All work including repair of damaged pavement and shoulders shall be inspected and approved by the Department of Public Works. All unapproved work shall be considered unacceptable and shall be reworked and corrected as directed by the Department of Public Works, at the Contractor's expense.
- d. Damaged shoulders shall be restored to a condition equal to or better than existing condition.
- e. Work on a public street area may be performed only between the hours of 8:00 a.m. to 3:30 p.m. Monday through Friday, except holidays recognized by the County of Kauai, unless otherwise permitted by the Department of Public Works, County of Kauai.
- f. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
- g. No material and/or equipment shall be stockpiled or otherwise stored within the County right-of-way except at locations designated in writing and approved by the County Engineer.
- h. The Contractor shall conduct his operations so as to offer the least possible obstructions and inconvenience to the public and he shall have under construction no greater length or amount of work that he can prosecute properly with due regard to the rights of the public.
- i. All existing drainage flow conditions shall be maintained.

LEGEND

Existing	New	
		Reconstruction Areas, See Sheet C1
		Shoulder Dressing @ Guardrails, See Sheet C18
		Concrete Sidewalk, See Sheet C3
		Metal Guardrail
		Monument
		Electrical Pole
		Electrical Box
		Water Line
		Water Meter
		Water Manhole
		Water Valve
		Drain Line
		Storm Drain Manhole
		Catch Basin/Drain Inlet
		Sewer Manhole
		Handrail
		Signs
		Right of Way
		Spot Elevation

KAUAI ELECTRIC NOTES

1. The Contractor shall notify Kauai Electric's Engineering Office in writing, at least (2) weeks prior to the start of his project, with a contact person and telephone numbers at the project site.
2. The Contractor shall exercise care when performing work next to any Kauai Electric utility poles, down guy wires, and conductors. Damages to existing facilities shall be immediately reported to Kauai Electric's Power Plant Dispatch at 246-8201. Repair work shall be done at the Contractor's expense.
3. On all Kauai Electric's poles, secondary voltages - 120/240 volts is at the height of 27-feet, 6-inches above ground; distribution at 3-phase is at 12KV; and transmission is at 57KV at the height of 33-feet+ above ground.
4. The telephone and cable companies are joint users of the utility poles. Please contact Verizon Hawaii at 643-3456 and Garden Isle Telecommunications at 245-7720 for their comments/requirements.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50B-01-00M	2002	4	40

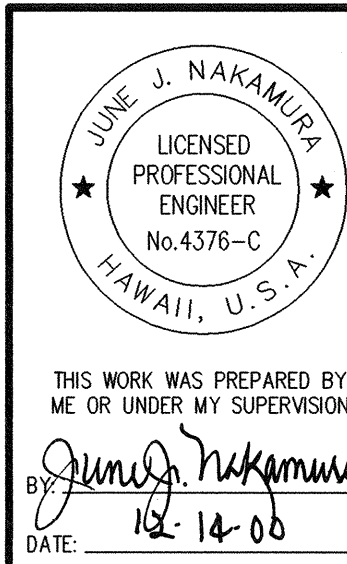
ABBREVIATIONS

@	At	MAX.	Maximum
Ø	Diameter	MH	Manhole
ABUT	Abutment	MIN.	Minimum
A.C.	Asphalt Concrete	N	North
ANCH	Anchor	NO.	Number
BC	Bottom of Curb	O.C.	On Center
BL	Baseline	O/S	Offset
BM	Beam	OH	Overhead
BOT	Bottom	P.C.	Point of Curvature
CB	Catch Basin	P.C.C.	Point of Compound Curve
Ch	Chord Length	P.T.	Point of Tangency
CLR	Clear	Pav't	Pavement
CL	Center Line	PCC	Portland Cement Concrete
CONC.	Concrete	PCF	Pounds Per Cubic foot
COND.	Conduit	PL	Property Line, Plate
CONN	Connection	PROJ.	Project
CONT	Continuous	PSI	Pounds Per Square Inch
D	Diameter	R	Radius
D	Drain	RAD	Radius
DI	Drain Inlet	RD.	Road
DIST.	District	REINF	Reinforcing
DMH	Drain Manhole	RFL	Reflector
DWG	Drawing	Rt.	Right
E	East	R/W	Right of Way
EA	Each	SC	Scale
EF	Each Face	SDMH	Storm Drain Manhole
EL	Elevation	SL	Street Light
ELEC	Electric	SLB	Street Light Box
ELEV.	Elevation	SN	Sign
EOH	Electrical Overhead	STA.	Station
EP, E.P.	Edge of Pavement	STD	Standard
E.S.	Edge of Shoulder	SY	Square Yard
EUG	Underground Electric	T	Top
EW	Each Way	T	Tangent
EXIST.	Existing	T&B	Top And Bottom
FED.	Federal	TC	Top of Curb
FT.	Feet	TP	Top
FTG	Footing	TS	Top Stem
G	Gas	TUG	Underground Telephone
GRP	Grouted Rubble Paving	TW	Top of Wall
GW	Guy Wire	TYP.	Typical
H	Height	UP	Utility Pole
HAW.	Hawaii	V.C.	Vertical Curve
HB	Hose Bibb	VERT	Vertical
HORIZ	Horizontal	W	Water
ICV	Irrigation Control Valve	W/	With
INV	Invert	W/O	Without
L.F.	Linear Feet	WMH	Water Manhole
Lc	Length of Curve	WV	Water Valve
Lt.	Left		

APPROVED:

County Engineer, Department of Public Works  
(For Work within County right-of-way)

Date



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>NOTES, LEGEND AND ABBREVIATIONS</b> KAUMUALII HIGHWAY RESURFACING Mahaikona Bridge To Waimea Canyon Drive Project No. 50B-01-00M Scale: As Noted Date: 12/13/00 SHEET NO. T4 OF 6 SHEETS
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WATER POLLUTION AND EROSION CONTROL NOTES:

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50B-01-00M	2002	5	40

A. GENERAL:

- 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.
- The Contractor shall follow the guidelines in the "Best Mangement 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.
- 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:

1. 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 regulations 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.

3. Sanitary Waste

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

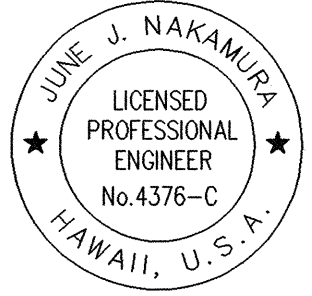
C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- 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.
- Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- A maintenance inspection report shall be made promptly after each inspection by the Contractor.
- 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.
- 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.

PM: JUN  
OPER: GKC/PT\*  
REVISED: 12/14/00

DATE: 06/04/98  
PLOT SCALE: 1" = 1'  
FILE: 9930-T5.DWG  
Job No: 9930

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QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
NOTEBOOK		
No.		

 <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</small> BY: <i>June J. Nakamura</i> DATE: 12-14-00	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>WATER POLLUTION AND EROSION CONTROL NOTES</b> KAUMUALII HIGHWAY RESURFACING Mahaikona Bridge To Waimea Canyon Drive Project No. 50B-01-00M Scale: As Noted      Date: 12/13/00
	SHEET NO. T5 OF 6 SHEETS
	5

WATER POLLUTION AND EROSION CONTROL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50B-01-00M	2002	6	40

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. 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                  | Fertilizers              |
| Detergents                | Petroleum Based Products |
| Paints (enamel and latex) | Cleaning Solvents        |
| Metal Studs               | Wood                     |
| Tar                       | Masonry Block            |
- 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.

2. 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.

3. 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 substance used onsite shall be applied according to the manufacturer's recommendation.
- 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 regulations.
- 4) Concrete Trucks:  
Concrete trucks shall be allowed to wash out or drum wash water only at a 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.

4. Spill Control Plan

- a. A spill prevention plan shall be posted to include 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 resopsible spill personnel shall be posted in the material storage srea and in the office trailer onsite.
- 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 size.

DATE: 06/04/08  
PLOT SCALE: 1" = 1'  
FILE: 9930-T6.DWG  
Job No: 9930

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
NOTEBOOK		
	No.	

<div><div><div>JUNE J. NAKAMURA</div><div>LICENSED PROFESSIONAL ENGINEER</div><div>No. 4376-C</div><div>HAWAII, U.S.A.</div></div><div><div>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION</div><div>BY: <i>June J. Nakamura</i></div><div>DATE: 12-14-08</div></div></div>	<div>STATE OF HAWAII</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>HIGHWAYS DIVISION</div> <div>WATER POLLUTION AND EROSION CONTROL NOTES</div> <div>KAUMUALII HIGHWAY RESURFACING</div> <div>Mahaikona Bridge To Waimea Canyon Drive</div> <div>Project No. 50B-01-00M</div> <div>Scale: As Noted      Date: 12/13/00</div>
	SHEET NO. T6 OF 6 SHEETS