

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	4	86

GENERAL NOTES:

- The Project includes construction of new pedestrian ramps and sidewalks; demolition and reconstruction of existing sidewalks; removing and installing of signs; removal and installation of pavement markers for parking and traffic control; installation of handrails; relocation of utilities; adjusting drainage facilities; installing GRP; adjusting water valves and water meter boxes; and grassing.
- The Contractor shall verify the locations of all existing valve boxes, utility manholes, drainage gratings, centerline monuments, etc. and shall raise them to meet new pavement or sidewalk grade.
- All construction shall be performed in accordance with the Standard Specifications for Road, Bridge, and Public Works Construction dated 1994 and the State of Hawaii Department of Transportation Highways Division Standard Plans dated 1986 unless otherwise specified on the plans or specifications.
- Existing pavement shall be cleaned and shall receive a tack coat of 0.15 gallon per square yard of emulsified asphalt (SS-1) before placing A.C. Pavement. The cost of the tack coat shall be incidental to the A.C. Pavement.
- The Contractor shall provide smooth-riding connection to existing streets, sidewalks and driveways as directed by the engineer. This work shall be considered incidental to the various contract items.
- The Contractor shall keep at least one lane open to traffic at all times between 8:30 am and 3:30 pm. Both lanes shall be kept open to traffic during other hours.
- Any sidewalks, curb ramps, pavement, pavement markings, structures, signs and other appurtenances damaged by the Contractor as a result of construction operations shall be restored to its original, or better condition.
- No encroachment will be allowed within the 36 inch minimum accessible route.
- Dressing of shoulder and adjacent slopes shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders 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.
- Contractor shall provide temporary sidewalks or access ways for safe passage and access for vehicles and pedestrians to and from all existing businesses, side streets and driveways at all times. This work shall be considered incidental to the various contract items.

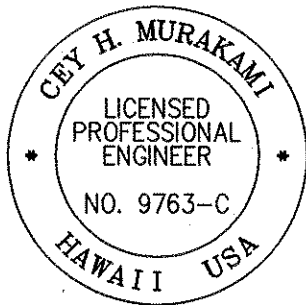
- All saw cutting work must be cleaned while wet and shall be considered incidental to asphalt concrete pavement, mix no. IV and/or various concrete items and will not be paid for separately. Saw cutting limits shall be extended beyond shown plan limits to match the nearest scoreline.
- Unprotected pavement dropoffs shall not be allowed during non-working hours, except where approved by the Engineer in writing. Suitable excavated material shall be used as directed by Engineer for item #9 work.
- Public notices is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of six weeks prior to publication. Pre-approval of notices, with dates left blank, is permissible.
- Contractor shall maintain at least one shoulder free and clear of debris for pedestrians at all times.
- Confined Space
For Entry By City Personnel, Including Inspectors, Into A Permit Required Confined Space As Defined In 29 CFR Part 1910.146(b), The Contractor Shall Be Responsible For Providing:
 - All Safety Equipment Required By The Confined Space Regulations Applicable To All Parties Other Than The Construction Industry, To Include, But Not Limited To, The Following:
 - Full Body Harness For Up To Two Personnel
 - Lifeline And Associated Clips
 - Ingress/Egress And Fall Protection Equipment
 - Two-Way Radios (Walkie-Talkies) If Out Of Line-Of-Sight
 - Emergency (Escape) Respirator (10 Minute Duration)
 - Cellular Telephone To Call Emergency Assistance
 - Continuous Gas Detector (Calibrated) To Measure Oxygen Hydrogen Sulfide, Carbon Monoxide And Flammables (Capable of Monitoring At A Distance At least 20-Feet Away)
 - Personal Multi-Gas Detector To Be Clarified By Inspector
 - Continuous Forced Air Ventilation Adequate To Provide Safe Entry Conditions.
 - One Attendant/Rescue Personnel Topside (Two, If Conditions Warrant It)
- In the event any artifacts or human remains are uncovered, all work shall cease in the immediate area and the DLNR, Historic Preservation Division (933-0482) shall be notified. No work shall resume until clearance has been obtained from the Historic Preservation Division.

- Noncompliance to any of the requirements shall mean immediate suspension of all work, and remedial work shall commence immediately. Violators shall be subjected to administrative, civil and/or criminal penalties.
- CONSTRUCTION NOTES:
- The Engineer reserves the right to make changes to the drainage system as such changes are found to be necessary as the land is cleared and erosion control construction progresses.
 - The Contractor shall conduct all tests as requested by the Engineer and be responsible for all expenses incurred in conducting these tests.
 - The Contractor shall verify the location of all existing utilities, whether shown on the plan or not, and shall be responsible for the repair or replacement of same in the event of damages due to his construction practices. The Contractor shall coordinate his work with the respective utility companies. The Contractor shall notify the Engineer of any proposed adjustments or other discrepancy with the plans.
 - The Contractor shall provide and install all traffic control devices in conformance with the "Manual on Uniform Traffic Control Devices for Streets and Highways", and to the satisfaction of the Engineer.
 - All work called for on the plans and not itemized in the proposal and all work not called for but required for the construction of this Project, shall be considered incidental.
 - All ties are to the top of curbs and sidewalks.
 - When removing portion of existing sidewalk, the Contractor shall sawcut at existing score lines.
 - All temporary sidewalks or access ways shall be provided for pedestrians at no cost to the State and the work considered incidental to various contract items.
 - Temporary buildings and facilities that are not of permanent constructions but are extensively used or are essential for public use for a period of time shall be accessible.
 - Contractor shall schedule an informational meeting in Honokaa and Hawi at least one month prior to starting work. The meeting will be to inform the public of the proposed construction schedule and sequence of work. In addition, the contractor shall submit weekly schedules to businesses and property owners that will be directly affected by upcoming work.

- Contractor shall not disturb more than 150 L.F. of sidewalk fronting businesses at any one time. All work, beginning with the demolition and ending with the concrete pour, shall be completed within 1 week. The Engineer may assess liquidated damages of \$500 per day for non-compliance.
- Concrete pours fronting businesses shall be scheduled on Sundays to minimize downtime for those businesses, unless approved by the business owners and Engineer.
- Contractor shall not occupy parking spaces with company vehicles, materials and/or equipment that is not directly adjacent to the work area.
- Contractor shall cease all work in Honokaa Town during Western Week, usually the last week and weekend in May. Also, all disturbed work shall be substantially complete by this time to allow unrestricted access to all businesses and parking stalls.
- 48 hours notice shall be given to business owners and the construction manager prior to commencing any work within the business owner's frontage.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. _____	DRAWN BY	9/2004
	TRACED BY	9/2004
	DESIGNED BY	9/2004
	QUANTITIES BY	9/2004
	CHECKED BY	9/2004

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Cey H. Murakami 04/30/06
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES 1
PEDESTRIAN ACCESSIBILITY ROUTE
IMPROVEMENTS - HONOKAA, HAWI, AND KAPAAU
Federal Aid Project No. CMAQ-0100(62)
Scale: AS NOTED Date: SEPT. 2004

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	5	86

CONSTRUCTION NOTES – SOLID WASTE:

1. Unless otherwise specified, the Contractor is responsible for the proper handling, storage and/or disposal of all waste generated by this construction including grubbing and excess material. Any material brought to the county landfills will be subject to the instituted tipping fee system, with no exceptions or exemptions.
2. All wastes generated by construction, including grubbing, demolition and excess excavation material may be brought to the West Hawaii or the Hilo Landfill. The landfill fee shall be incidental to the various removal items.
3. Construction, demolition and grubbing material shall not be deposited at any of the county transfer stations, but shall be transported for disposal at either the West Hawaii or the Hilo Landfill.
4. Asbestos material must be separated, double bagged and landfilled in accordance with Regulations of the Solid Waste Division, Department of Public Works. Information may be obtained by calling the division at (808) 961-8339 between 7:00 A.M. And 4:00 P.M. Monday through Friday.

ADJUSTMENT OF EXISTING UTILITY STRUCTURES TO FINISHED GRADE

A. Materials:

1. All materials used in the adjustment shall meet the specifications under the respective sections for concrete and mortar, bricks, manholes, frames and covers and other castings.
2. All frames and covers and castings shall be salvaged, cleaned and re-used unless directed by the Engineer.

B. Construction requirements:

1. The existing structures shall not be adjusted until the resurfacing is completed.
2. The newly resurfaced pavement shall be neatly cut in straight lines or circles.
3. Underground structure walls shall be cleaned and built-up to the required elevations to receive the cover frames or castings.
4. Backfill shall be constructed with aggregate base course and shall be thoroughly compacted to not less than 95% of its maximum density.
5. The finished surface over the compacted backfill shall be constructed of A.C. with a minimum compacted thickness of 2-1/2 inches.
6. Upon completion of installation, all frames and covers shall be cleaned and painted with one coat of approved asphaltum paint.

STANDARD TRAFFIC NOTES:

1. All traffic signs and pavement markings shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices", as amended, and the "Hawaii Standard Specifications for Road, Bridge and Public Works Construction", 1994 Edition, unless otherwise specified on the plans, specifications, or the standard traffic notes.
2. The Contractor shall install permanent or temporary pavement markers, striping and markings as required by section 629 of the "Hawai'i Standard Specifications for Road, Bridge and Public Works Construction," 1994 Edition. The temporary striping must be installed as close as possible to the final location to ensure proper lane widths and safe flow of traffic.

The Contractor shall coordinate and hire special duty police officer(s) as needed to provide traffic control.

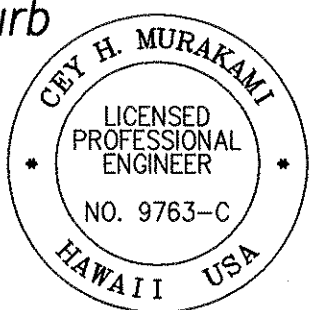
3. The Contractor shall inform the traffic division at least six (6) working days prior to any work on pavement markings operations and/or sign installations to schedule a review and approval of the striping and/or signing plans.
4. The approved striping plan shall be laid out using thinned-out paint or other approved methods. Field adjustments shall be made as directed by the Engineer before the final markings are applied.
5. All pavement markings that become inapplicable shall be removed by the contractor at his own expense. Removal shall be by eradication or by other methods approved by the Engineer before the new pavement markings are applied. Excessive gouging of the pavement is not acceptable and shall be repaired at the contractor's expense.
6. Pavement striping for all crosswalks, stoplines, & pavement arrows shall be with thermoplastic extrusion or equal as approved by the Engineer.
7. All traffic paints shall be approved by the State of Hawaii, Department of Transportation, Highways Division prior to order.
8. The Contractor shall coordinate and submit for approval Traffic Control Plans for lane closures and sidewalk closures.
9. All painted pavement striping shall be applied in two separate coats of 0.015 inch nominal thickness each. Second coat shall be applied only after complete drying of first coat. Wait at least 2 hours between coats.
10. Reflectorized raised pavement markers shall be the regular sized markers with approximate dimensions of 4"x4"x0.7".

11. All traffic signs shall be completely reflectorized with type B high intensity reflectorized sheeting except that parking/no parking & street name signs may be Engineer grade reflective sheeting.
12. The 2 1/4 inch square anchor post for signs shall be driven into the ground, A.C. pavement or concrete sidewalk in accordance with the plans. All damages to the surrounding area shall be repaired to its original condition or better. Before driving into concrete, a neat hole of approximately 3 inch diameter shall be drilled through the concrete prior to the installation of the anchor post. If driving into the concrete or A.C. pavement is not possible without damage to the surrounding concrete or A.C. pavement, a 12"x 12" square shall be sawcut and removed prior to the installation of the anchor post and then patched with hot mix to match the existing A.C. Pavement, and concrete to match the exist concrete sidewalk.
13. Upon completion of the construction work the Contractor shall restripe all pavement markings, including painted curbs, within the construction work area and adjacent roadway pavements up to 100 feet beyond the construction area. All signs & markings within the construction area and adjacent areas that have been damaged, removed, or adversely affected by the construction work shall be restored to its original condition or better by the Contractor.
14. For temporary Traffic Control, in addition to Section 645, include the Manual on Uniform Traffic Control Devices (MUTCD) as referenced in 23 Code of Federal Regulations (CFR), Part 655, Subpart F. The MUTCD shall be recognized as the national standard for traffic control devices on all public roads travel in accordance with 23 U.S.C. 109(d) and 402(a).

CURB RAMP AND SIDEWALK NOTES:

1. A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.
2. Subject to field conditions, the Engineer shall determine the final location of curb ramps.
3. Where necessary, existing pullboxes, handholes, manholes, etc. shall be adjusted to match curb ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items unless indicated otherwise.
4. Transitions from ramps to gutters and roadways shall be flush.
5. Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.
6. Construction joints are required to join curb ramps with sidewalks. See sheet 78 for details.

7. All curb ramp shall have detectable warnings. See Sheet 77 for details.
8. Concrete for sidewalks shall be class B. All other concrete shall be class A
9. The maximum slopes of adjoining gutters or road surface immediately adjacent to the curb ramp or accessible route shall not exceed 1:20 (5%). Where curb ramps have running slopes that do not exceed 1:20 (5%), the adjacent gutter or road counter slope may be a maximum of 8.33%. This is allowed only at ramps with 1:48 (2%) landing or 1:20 (5%) maximum slope.
10. Unless otherwise noted, new gutters are required as shown.
11. Unless otherwise noted, all curb ramps shall be 4" thick concrete reinforced with 6x6 W2.9/W2.9 welded wire fabric and have a 6" aggregate base course and a 6" subbase.
12. Surface of sidewalks and curb ramps shall be firm, stable, and slip resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
13. Bed course material is required for curb ramps, sidewalks, and gutters.
14. Passing spaces along new sidewalks with 5' clear width or less shall be provided at maximum 200' intervals as required by ADA guidelines. The passing area shall be a minimum 5' wide by 5' long.
15. If possible, install utility poles, fire hydrants, light poles, sign posts, pull boxes, etc. off of sidewalk but within the right-of-way.
16. Objects protruding from utility poles and walls adjacent to the sidewalks (ie. wall mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the current American with Disabilities Act Accessibility Guidelines (ADAAG) and will be subject to Engineer's approval.
17. If a curb ramp is not constructed according to the plans, the Contractor shall reconstruct the curb ramp at no cost to the State. Construction tolerance for Portland Cement Concrete shall be based on 1/4 inch per 10 ft. (±0.2%). Remedial measures will not be accepted.
18. All concrete driveways and sidewalks shall have a broom finish perpendicular to the flow of pedestrian traffic.
19. Contractor shall notify Engineer if transition slopes can't match cross slope requirements before saw cutting existing sidewalk.



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Cry H. Murakami
SIGNATURE

04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GENERAL NOTES 2 PEDESTRIAN ACCESSIBILITY ROUTE IMPROVEMENTS – HONOKAA, HAWAII, AND KAPAAU Federal Aid Project No. CMAQ-0100(62) Scale: AS NOTED Date: SEPT. 2004 SHEET No. 5 OF 86 SHEETS
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ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	9/2004
DRAWN BY	DL
DESIGNED BY	DL
CHECKED BY	DL
APPROVED BY	ES
DATE	9/2004

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	6	86

WATERLINE NOTES:

- All work shall be done according to the Water System Standards, State of Hawaii, dated 2002.
- The Contractor shall inform the D.W.S. Engineer 72 hours prior to the beginning of any waterline work and one week prior to any connection, chlorination, shut-off or relocation work.
- All work and material furnished by the D.W.S. shall be paid for by the Contractor.
- All existing waterlines, waterline appurtenances and other utility locations shown on the plans are obtained from latest reliable sources. The Contractor shall be responsible to verify the exact location of all utilities in the field and shall bear all costs for damages done unto them during the contract period.
- All hook-ups to existing waterlines shall be done by the Department of Water Supply. The Contractor shall provide all excavation, backfill, road repair, traffic control, landscaping, etc.
- Where water shut off of more than 3 hours becomes necessary, the Contractor, at his own cost, shall provide a temporary by-pass line. The by-pass size shall be determined by the D.W.S. Engineer. If necessary, the D.W.S. Engineer may require a by-pass line, regardless of the expected water shut off period.
- Minimum horizontal clearance between waterlines and other utilities shall be 8-feet for road right-of-ways of 50 feet or less, minimum vertical clearance between waterline and other utilities shall be 12-inches provided the other utility is concrete jacketed and 18-inches if no concrete jackets are used. In all applicable instances, the waterlines shall be at a grade higher than other utilities. Minimum horizontal clearance between waterline and other utilities shall be 10-feet for road right-of-ways of more than 50-feet.
- All fittings (class 250) and all gate valves (class 200) shall be ductile iron, with mechanical joints unless otherwise specified. Butterfly valves shall be class 250 with epoxy coated interior unless otherwise specified.
- The waterline shall be tested at a minimum of 225 P.S.I. or one and a half times the static pressure at the low point under D.W.S. supervision just prior to paving the roadways.
- The Contractor shall be responsible for the chlorination of the water system and shall bear all cost. The persons engaged to do the chlorination work must have the appropriate license to perform the work in the State of Hawaii.

- All service laterals shall be soft copper, type "K", with brass fittings.
- Pipe cushion for copper pipes shall be No. 4 fine, manufactured sand.
- Solder and flux shall contain not more than 0.2 percent lead.
- Service lateral(s) shall be flushed by the Contractor under D.W.S. supervision.
- Services within the improvement areas requiring a Department of Water Supply (D.W.S.) approved backflow prevention assembly shall have one. Its installation will be the responsibility of the service owner in accordance with D.W.S. Standard Detail No. V9.

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

- The Contractor is reminded of the requirements of Section 209 – Water Pollution and Erosion Control, in the Special Provisions. 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 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 \$27,500 for noncompliance of each BMP requirement and each requirement stated in Section 209, for every day of noncompliance. 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 noncompliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
- For projects that require an NPDES Permit from the Department of Health, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall, and have an opening of at least one-inch in diameter. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.

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 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

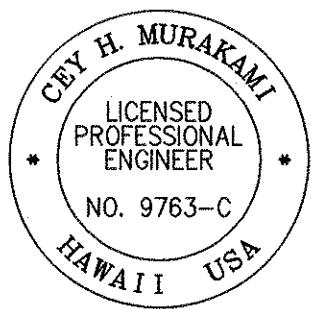
All hazardous waste materials shall be disposed of in the manner specified by local or State regulations or by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.

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 within 24-hours following any rainfall event of 0.5 inches or greater within 24-hours.
- 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.



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Cory H. Murakami
SIGNATURE

04/30/06
EXPIRATION DATE
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES 3</u>	
PEDESTRIAN ACCESSIBILITY ROUTE IMPROVEMENTS – HONOKAA, HAWAII, AND KAPAAU Federal Aid Project No. CMAQ-0100(62)	
Scale: AS NOTED	Date: SEPT. 2004
SHEET No. 6 OF 86 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	7	86

WATER POLLUTION AND EROSION CONTROL NOTES: -Cont.

4. 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. The bottom of the silt screen shall be inspected and verified that it is buried a minimum of 6 inches below the existing 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:

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 substances used onsite shall be applied according to the manufacturers' 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 the 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.

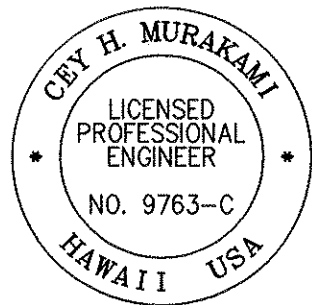
- 4) Concrete Trucks
Concrete trucks shall be allowed to wash out or to discharge drum wash water only at a designated site. Water shall not be discharged in the highway drainage system or waters of the United States. The Contractor shall contact Drinking Water Branch, Department of Health at 586-4258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

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.

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 responsible spill personnel shall be posted in the material storage area 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.



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UNDER MY SUPERVISION

Cey H. Murakami 04/30/06
SIGNATURE EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>GENERAL NOTES 4</u>	
PEDESTRIAN ACCESSIBILITY ROUTE IMPROVEMENTS - HONOKAA, HAWAII, AND KAPAAU Federal Aid Project No. CMAQ-0100(62)	
Scale: AS NOTED	Date: SEPT. 2004
SHEET No. 7 OF 86 SHEETS	

ORIGINAL PLAN	SURVEY PLOTTED BY			DATE	
	DRAWN BY	DL		9/2004	
	TRACED BY	DL		9/2004	
	DESIGNED BY	CM		9/2004	
NOTE BOOK	QUANTITIES BY			TC	9/2004
	CHECKED BY			ES	9/2004
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0100(62)	2004	8	86

WATER POLLUTION AND EROSION CONTROL NOTES: -Cont.

4. Spill Control Plan -Cont.
- 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.

E. PERMIT REQUIREMENTS:

1. A National Pollutant Discharge Elimination System (NPDES) Permit shall be required for Construction Activities of one acre or more. The application for NPDES for Construction Activities (Form C) shall be the responsibility of SSFM. The Contractor shall submit all necessary addendum information referenced in the specifications. The Contractor shall also review the submitted Notice of Intent (NOI) form C and the conditional Notice of General Permit Coverage (NGPC). SSFM shall not be responsible for any additional permits or the compliance with such permits.
2. If an NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to 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
- c. NPDES Permit for Hydrotesting Waters
- d. Water Quality Certification
- e. Stream Channel Alteration Permit
- f. Section 404 Army Corps of Engineer Permit

PUBLIC HEALTH SAFETY AND CONVENIENCE NOTES:

1. Contractor shall observe and comply with all federal, state, and local laws required for the protection of public health, safety and environmental quality.
2. The Contractor at his/her expense, shall keep the project area and surrounding area free from rubbish, dust, noise, erosion, etc. The work shall be done in conformance with the air and water pollution control standards and regulations of the state department of health.
3. No Contractor shall perform any construction operation so as to cause falling rocks, silt or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violation occur, the Contractor shall immediately make all remedial actions as necessary.

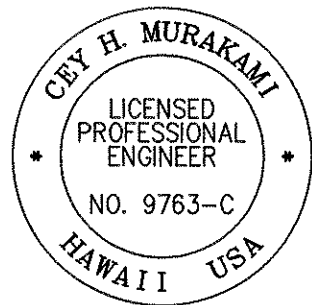
4. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience and safety of the public.
5. The Contractor's attention is directed to Chapter 46, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control," in which maximum permissible noise levels have been set. If the construction work requires a permit from the Director of Health, the Contractor shall obtain a copy of Chapter 46 and become familiar with the noise level restrictions and the procedures for obtaining a permit for the construction activities. Application and information on variances are available from the Environmental Protection and Health Services Division, 1250 Punchbowl St., Honolulu, HI 96813 or by telephone (808-548-6455).
6. Dust control should be applied to reduce dust emissions at all times. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards contained in Hawaii Administrative rules: Chapter 11-60, "Air Pollution Control".

DISCHARGE OF CHLORINATED WATER NOTES

1. The contractor shall notify the division of water quality's source control section by telephone (527-5137) at least 48 hours prior to the discharge dates. A wastewater service investigator may witness the discharge event to verify compliance.
2. The contractor shall monitor the water for chlorine residual prior to discharge. The allowable discharge level of chlorine residual is 5 ppm.
3. The contractor shall discharge the effluent water at a maximum allowable flow rate of 50 gpm.
4. The contractor shall submit to the director of the department of environmental services, within 20 days of the discharging event, a self- monitoring report certifying the flow rate of discharge, the exact time and date of discharge, the duration of discharge and total volume discharged. This report shall be submitted by the construction supervisor on-site during the discharge and shall be certified with the following statement:
- "I hereby certify that the event was witnessed by myself and all information is based on actual facts during discharge."
5. In the event any adverse conditions do occur during the discharge period, an immediate work stoppage and notification of the department of environmental services of problem is required.

BEST MANAGEMENT PRACTICES (BMPS):

1. Measures to control erosion and other pollutants shall be in place before any earth moving work is initiated. These measures shall be properly constructed and maintained throughout the construction period.
2. Construction shall be sequenced to minimize the exposure time of cleared surface area.
3. Construct facilities to retain on-site wastewater such as chlorinated water, hydrostatic testing water, wash water after cleaning concrete trucks, etc. and to allow percolation into the soil.
4. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
5. Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than twenty (20) calendar days prior to site disturbance.
6. Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than thirty (30) calendar days.
7. Permanent soil stabilization with perennial vegetation shall be applied as soon as practical after final grading.
8. At the end of the grading operations, exist. Catch basins and inlets surrounding the project site shall be inspected and any accumulated sediment and debris found in the catch basins shall be removed. Flushing into the catch basin is prohibited.
9. Storm water flowing toward the construction area shall be diverted by using appropriate control measures as practical.
10. Noncompliance to any of the above requirements shall mean immediate suspension of all work, and remedial work shall commence immediately. All costs incurred shall be the responsibility of the violator. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.
11. Contractor shall provide Site Specific Erosion and Sediment Control Plans. See Details on Sheet 85.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE: *Cry H. Murakami* 04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GENERAL NOTES 5	
PEDESTRIAN ACCESSIBILITY ROUTE IMPROVEMENTS - HONOKAA, HAWI, AND KAPAAU Federal Aid Project No. CMAQ-0100(62)	
Scale: AS NOTED	Date: SEPT. 2004

ORIGINAL PLAN	DATE
DESIGNED BY	9/20/04
CHECKED BY	9/20/04
DESIGNED BY	9/20/04
CHECKED BY	9/20/04
DESIGNED BY	9/20/04
CHECKED BY	9/20/04