

WATER POLLUTION AND EROSION CONTROL NOTES:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	4	41

A. GENERAL:

1. See Special Provisions Section 209 - Water Pollution and Erosion Control. 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. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.
2. Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the Best Management Practices (BMP) for the project. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A.2, "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the Storm Water Pollution Prevention Plan (SWPPP) when applicable.
3. Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
4. The Engineer may assess liquidated damages of up to \$27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
5. 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.
6. If necessary, 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. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. Do not install in a location where rain water may splash into rain gage. 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.
7. Submit Site-Specific BMP Plan to the Engineer along with a completed Site-Specific BMP Review Checklist within 30 calendar days of contract execution. The Site-Specific BMP Review Checklist may be obtained from <http://www.stormwaterhawaii.com>.

B. WASTE DISPOSAL:

1. Waste Materials  
Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster weekly or when the container is two-thirds full, whichever is sooner. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 30 calendar days of contract execution. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed.
2. Hazardous Waste  
Dispose all hazardous waste materials in the manner specified by local or State regulations and 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  
Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.
2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.
4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.
5. Inspect silt screen or fence 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. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.
8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
11. 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.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	2/10/14
	TRACED BY	
	NOTED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

4/30/14	Revised Water Pollution and Erosion Control Notes and replace sheets 1 and 2 with sheets 1, 2 & 3.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
WATER POLLUTION & EROSION CONTROL NOTES	
HAWAII BELT ROAD RESURFACING	
Pepeekeo to Hakalau	
Federal Aid Project No. NH-019-2(067)	
Scale: None	Date: March, 2014
SHEET No. 1 OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.
13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the discharge point may be found in the SWPPP.
14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

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	Cleaning Solvents
Detergents	Wood
Paints (enamel and latex)	Masonry Block
Metal Studs	Herbicides and Pesticides
Tar	Curing Compounds
Fertilizers	Adhesives
Petroleum Based Products	

- b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- d. Keep products in their original containers with the original manufacturer's label.
- e. Do not mix substances with one another unless recommended by the manufacturer.
- f. Whenever possible, use a product up completely before disposing of the container.
- g. Follow manufacturer's recommendations for proper use and disposal.
- h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

- a. Keep products in original containers unless they are not resealable.
- b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS).
- c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.

3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

a. Petroleum Based Products:

Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.

b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

4. Spill Control Plan

- a. Post a spill prevention plan to include measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. 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. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.
- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at [cleanwaterbranch@doh.hawaii.gov](mailto:cleanwaterbranch@doh.hawaii.gov) during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

4/30/14	Revised Water Pollution and Erosion Control Notes and replace sheets 1 and 2 with sheets 1, 2 & 3.
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DATE	REVISION
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>WATER POLLUTION &amp; EROSION CONTROL NOTES</b>	
<u>HAWAII BELT ROAD RESURFACING</u>	
<u>Pepeekeo to Hakalau</u>	
<u>Federal Aid Project No. NH-019-2(067)</u>	
Scale: None	Date: March, 2014
SHEET No. 2 OF 3 SHEETS	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	2/10/14
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. The calculated land disturbance area for this project based on the construction plans is 0.88 acres not including Contractor Staging and Storage areas. If the total of the disturbed area and the Contractor Staging and Storage area is one acre or greater, the Contractor shall obtain the NPDES Construction Activities Permit using HDOT's latest SWPPP template. See Hawaii Administrative Rules Chapter 11-55, Appendix C for the definition of land disturbance. The Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit and complying with the requirements of HAR 11-55 including, but not limited to:
- a. Deadlines for initiating and completing initial stabilization
  - b. Increased inspection frequency and installation of rain gage if applicable
  - c. Deadlines to initiate and complete repairs to BMPs
  - d. Reporting requirements and corrective action reports
2. Comply with all applicable State and Federal Permit conditions. Permits may include, but 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

F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at [http://stormwaterhawaii.com/contractors/contractors\\_BMPmanual.aspx](http://stormwaterhawaii.com/contractors/contractors_BMPmanual.aspx) under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

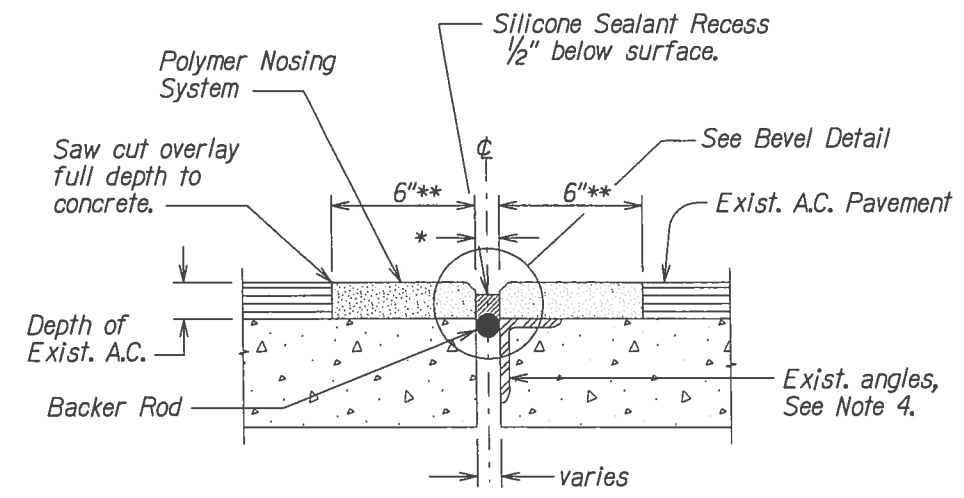
1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-2).
2. Contain on-site runoff using Perimeter Sediment Controls
- a. SC-1 Silt Fence
  - b. SC-5 Vegetated Filter Strips and Buffers
  - c. SC-8 Compost Filter Berm
  - d. SC-13 Sandbag Barrier
  - e. SC-14 Brush or Rock Filter
3. Control offsite runoff from entering construction area
- a. EC-8 Run-On Diversion
  - b. SC-6 Earth Dike
  - c. SC-7 Temporary Drains and Swales
4. Incorporate applicable Site Management BMP
- a. SM-1 Employee Training
  - b. SM-2 Material Delivery and Storage
  - c. SM-3 Material Use
  - d. SM-4 Protection of Stockpiles
  - e. SM-6 Solid Waste Management
  - f. SM-7 Sanitary/Septic Waste Management
  - g. SM-9 Hazardous Waste Management
  - h. SM-10 Spill Prevention and Control
  - i. SM-11 Vehicle and Equipment Cleaning
  - j. SM-12 Vehicle and Equipment Maintenance
  - k. SM-13 Vehicle and Equipment Refueling
  - l. SM-14 Scheduling
  - m. SM-15 Location of Potential Sources of Sediment
  - n. SM-16 Preservation of Existing Vegetation
  - o. SM-18 Dust Control
5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (EC-2) for all areas which exit onto a paved street. Restrict vehicle access to these points.
6. Manage Concrete Waste including installing a Concrete Washout Area (SM-5) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).
7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

4/30/14	Revised Water Pollution and Erosion Control Notes and replace sheets 1 and 2 with sheets 1, 2 & 3.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
WATER POLLUTION & EROSION CONTROL NOTES	
HAWAII BELT ROAD RESURFACING	
Pepeekeo to Hakalau	
Federal Aid Project No. NH-019-2(067)	
Scale: None	Date: March, 2014
SHEET No. 3 OF 3 SHEETS	

SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN
NOTES
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DESCRIPTION

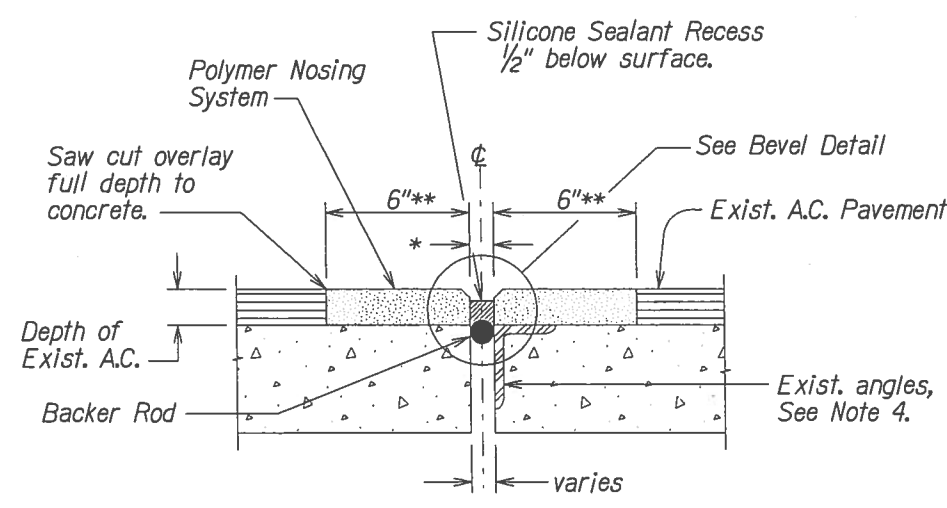
DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(067)	2014	8	42



EXPANSION JOINT DETAIL "A" AT BRIDGE DECK  
Scale: 3"=1'

\* - Width of joint opening. Opening in nosing shall match existing joint opening unless directed otherwise by Project Engineer.

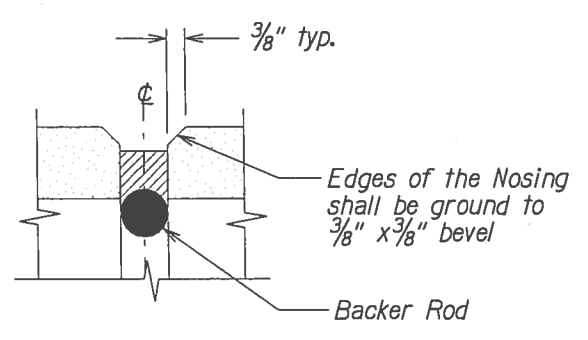
\*\* - Minimum width of nosing shall be 6". If the overlay exceeds 3" in depth, the installer shall use a 2 to 1 width to depth ratio.



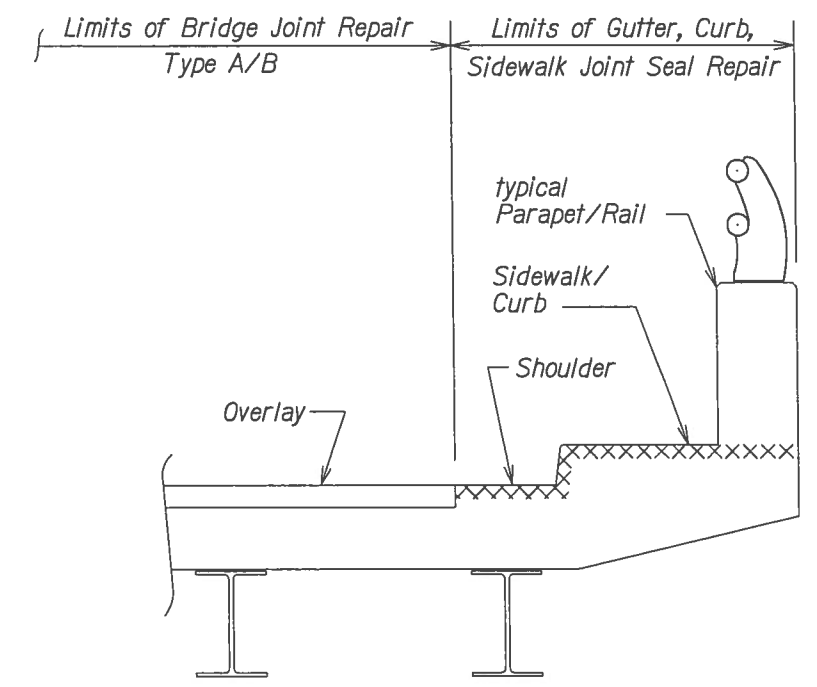
FIXED JOINT DETAIL "B" AT BRIDGE DECK  
Scale: 3"=1'

Notes for Expansion Joint Details "A" and "B"

- Information shown on the plans are based on "as-built" plans and may not be accurate. Measure actual joint gaps prior to ordering of material.
- Remove asphalt concrete overlay and clean block-out per manufacturer's published procedures.
- Remove any cracked or weakened concrete sections exposed after the asphalt concrete overlay has been removed using methods as approved by the Engineer.
- If existing angle irons are present on the deck surface, inspect angle irons for any defects, especially for soundness of underlying concrete. If accepted by the Engineer as sound, the angle irons may remain in place. Otherwise, remove angle irons and any underlying damaged concrete using methods as approved by the Engineer.
- Use caution to avoid cutting any reinforcing steel. If any reinforcing steel is accidentally cut, immediately report the incident to the Engineer.
- Repair all chipped, spalled, or damaged concrete in joint areas using methods as approved by the Engineer.
- Nosing and Silicone Sealant per manufacturers recommendations.
- A representative of the manufacturer shall be present at the start of work to demonstrate proper cleaning and installation techniques.
- Clean up and remove all debris accumulated on bridge members located directly below the joints to the satisfaction of the Engineer.
- All work necessary for the complete installation of each joint system, including but not limited to ordering of materials, preparation of joints, removal of angle irons, repair of concrete in joint areas, installation of nosing system, installation of silicone sealant, installation of backer rod, clean up, disposal of debris, and furnishing of all materials, equipment, and labor (including expenses for manufacturer's representative); shall be considered incidental to the joint repair pay items in the proposal for each respective bridge.



BEVEL DETAIL  
Scale: 6"=1'



Notes

- Detail is for both sides of Bridge.
- Prepare gutter, curb and sidewalk area per sealant manufacturer's recommendation. Install sealant according to manufacturer's recommendation.
- Clean up and remove all debris accumulated on bridge members located directly below gutter, curb, and sidewalk joints to the satisfaction of the Engineer.
- Preparation, installation, clean up and debris removal called for above, including furnishing all materials, equipment, and labor; shall be considered incidental to Gutter, Curb, Sidewalk Joint Seal Repair pay items for each respective bridge.

GUTTER, CURB, SIDEWALK  
JOINT SEAL REPAIR DETAIL

Scale: N.T.S.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

4/30/14	Added New Bridge Joint Detail Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>BRIDGE JOINT DETAIL</b> <b>HAWAII BELT ROAD RESURFACING</b> <b>Pepeekeo to Hakalau</b> <b>Federal Aid Project No. NH-019-2(067)</b> Scale: None Date: March, 2014 SHEET No. 1 OF 1 SHEETS	





CENTERLINE AND REFERENCE SURVEY MONUMENT SCHEDULE

MONUMENT TYPE	STATION	EXISTING DEPTH (FT.)	ADJUST CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0200)	RECONSTRUCT CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0300)	CONSTRUCT NEW CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0100)	REMARKS
P.O.T.	155+01.35	0	1			
P.O.T.	184+87.55	0	1			
EQ. P.O.T.	197+94.69 (BK) 0+00 (AH)	0	1			
GRD. MON.	11+51.19	0	1			
P.C.	11+51.88					No Monument
EQ. P.T.	18+36.71 (BK) 18+37.71 (AH)	0	1			
GRD. MON.	46+67.24	0	1			
P.C.	46+71.28					No Monument
P.T.	60+25.72	0	1			
GRD. MON.	73+42.59	0	1			
P.C.	73+44.22					No Monument
EQ. P.T.	92+47.91 (BK) 92+50.32 (AH)	0.25		1		
T.S.	103+47.87					No Monument
GRD. MON.	103+48.50	0.25		1		
S.C.	105+47.87					No Monument
GRD. MON.	105+48.52	0	1			
C.S.	108+63.13	0	1			
S.T.	110+63.13	0.32		1		
T.S.	115+43.16					No Monument
GRD. MON.	115+43.79	0.27		1		
S.C.	117+43.16					No Monument
GRD. MON.	117+43.84	0.3		1		
C.S.	124+18.47	0.35		1		
S.T.	126+18.47	0.32		1		
GRD. MON.	143+70.95	0.38		1		
P.C.	143+71.38					No Monument
P.T.	150+44.93	0.35		1		
P.O.T.	158+58.69	0	1			

Continued

CENTERLINE AND REFERENCE SURVEY MONUMENT SCHEDULE

MONUMENT TYPE	STATION	EXISTING DEPTH (FT.)	ADJUST CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0200)	RECONSTRUCT CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0300)	CONSTRUCT NEW CENTERLINE AND REFERENCE MON. (ITEM NO. 613.0100)	REMARKS
P.O.T.	65+00.03	0.15		1		
P.T.	64+17.70					No Monument
GRD. MON.	64+17.95	0	1			
P.C.	57+15.88	0	1			
P.T.	42+63.60	0	1			
P.C.	27+41.73				1	
P.O.T.	17+01.40	0	1			
GRD. MON.	12+26.01 (AH) 12+23.87 (BK)	0	1			
EQ. P.T.	12+24.03 (AH) 12+21.89 (BK)					No Monument
P.C.	3+71.53	0	1			
TOTALS		--	17	10	1	

NOTE: "No Monument" (theoretical) locations are noted for information purposes only. Existing monuments are to be adjusted/reconstructed at their present locations.

4/30/14

Revised Survey Monument Schedule and create New Sheet for Route Marker and Milepost Schedule.

DATE	REVISION
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

MISCELLANEOUS SCHEDULE

HAWAII BELT ROAD RESURFACING

Pepeekeo to Hakalau

Federal Aid Project No. NH-019-2(067)

Scale: None

Date: March, 2014

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY DATE  
DRAWN BY  
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ORIGINAL PLAN  
NOTES  
HAWAII BELT ROAD  
RESURFACING  
PEPEEKEO TO HAKALAU

ROUTE MARKER SCHEDULE					
PROJECT	STATION	INBOUND	OUTBOUND	ROUTE MARKER SIGN NO. (ROUTE NO.)	REMOVE  INSTALL TYPE A ASSEMBLY
FA-F 14B(1)	146+05	●		M1-6 (19)	1 1
	156+50		●	M1-6 (19)	1 1
	163+18	●		M1-6 (19)	1 1
SDR 3(2)	51+96	●		M1-6 (19)	1 1
	52+08		●	M1-6 (19)	1 1
	130+84		●	M1-6 (220)	1 1
	131+42	●		M1-6 (19)	1 1
	132+72		●	M1-6 (19)✕(220)	2 1
	135+44		●	M1-6 (19)	1 1
	136+00	●		M1-6 (19)✕(220)	2 1
	140+20		●	M1-6 (220)	1 1
	20+58	●		M1-6 (19)	1 1
SDR 3(2)	17+00		●	M1-6 (19)	1 1
	TOTALS				15 13

MILEPOST SCHEDULE					
PROJECT	STATION	INBOUND	OUTBOUND	MILE POST D10-4 (12"X24") MILE POST NO. (RTE. NO.)	REMOVE  INSTALL WITH POST (BI-DIRECTIONAL)
FA-F 14B(1)	146+05		●	10.0 (19)	2 1
	171+40		●	10.5 (19)	2 1
SDR 3(2)	1+10		●	11.0 (19)	2 1
	27+40		●	11.5 (19)	2 1
	53+92		●	12.0 (19)	2 1
	80+20		●	12.5 (19)	2 1
	106+52		●	13.0 (19) (KM 21.0)	2 1
	133+00		●	13.5 (19)	2 1
	134+12	●		0.0 (220)	2 1
	159+65		●	14.0 (19)	2 1
	54+20		●	14.5 (19)	2 1
SDR 3(12)	29+22		●	15.0 (19)	2 1
	4+56		●	15.0 (19)	2 1
	TOTALS				13 13

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	
NOTES	TRACED BY	
REVISIONS	QUANTITIES BY	
DATE	CHECKED BY	

4/30/14	New Sheet for Route Marker and Milepost Schedule.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MISCELLANEOUS SCHEDULE	
HAWAII BELT ROAD RESURFACING	
Pepeekeo to Hakalau	
Federal Aid Project No. NH-019-2(067)	
Scale: None	Date: March, 2014
SHEET No. 1 OF 1 SHEETS	