Amend Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION
 CONTROL to read as follows:
 3

## "SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

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**209.01 Description.** This section describes the following:

(A) Including detailed plans, diagrams, and written Site-Specific Best Management Practices (BMP); constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site, including local material sources, work areas and haul roads; removing and disposing hazardous wastes; control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion); and complying with applicable State and Federal permit conditions.

- (B) Work associated with construction stormwater, dewatering, and
   hydrotesting activities and complying with conditions of the National Pollutant
   Discharge Elimination System (NPDES) permit(s) authorizing discharges
   associated with construction stormwater, dewatering, and hydrotesting
   activities.
- 26 **(C)** Potential pollutant identification and mitigation measures are listed in 27 Appendix A for use in the development of the Contractor's Site-Specific BMP.
- 29 Requirements of this section also apply to construction support 30 activities including concrete or asphalt batch plants, rock crushing plants, equipment staging yards/areas, material storage areas, excavated material 31 disposal areas, and borrow areas located outside the State Right-of-Way. 32 For areas serving multiple construction projects, or operating beyond the 33 34 completion of the construction project in which it supports, the Contractor 35 shall be responsible for securing the necessary permits, clearances, and documents, and following the conditions of the permits and clearances, at no 36 37 cost to the State. 38
- 39 209.02 Materials. Comply with applicable materials described in Chapters 2 and
   40 3 of the current HDOT "Construction Best Management Practices Field Manual". In
   41 addition, the materials shall comply with the following:
- 42

(A) Grass. Grass shall be a quick growing species such as rye grass,
 Italian rye grass, or cereal grasses. Grass shall be suitable to the area and
 provide a temporary cover that will not compete later with permanent cover.
 Alternative grasses are allowable if acceptable to the Engineer.

47 (B) Fertilizer and Soil Conditioners. Fertilizer and soil conditioners shall
 48 be a standard commercial grade acceptable to the Engineer. Fertilizer shall
 49 conform to Subsection 619.02(H)(1) - Commercial Fertilizer.

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51 (C) **Hydro-mulching.** Hydro-mulching used as a temporary vegetative 52 stabilization measure shall consist of materials in Subsections 209.02(A) -53 Grass, and 209.02(B) – Fertilizer and Soil Conditioners. Mulches shall be 54 recycled materials including bagasse, hay, straw, wood cellulose bark, wood 55 chips, or other material acceptable to the Engineer. Mulches shall be clean 56 and free of noxious weeds and deleterious materials. Potable water shall meet the requirements of Subsection 712.01 - Water. Submit alternate 57 58 sources of irrigation water for the Engineer's acceptance if deviating from 59 712.01 - Water. Installation and other requirements shall be in accordance 60 with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil and Mulch Tackifier, 641.03(A) – Seeding, and 641.03(B) - Planting Period. 61 62 Install non-vegetative controls including mulch or rolled erosion control 63 products while the vegetation is being established. Water and fertilize grass. Apply fertilizer as recommended by the manufacturer. Replace grass the 64 Engineer considers unsuitable or sick. Remove and dispose of trash and 65 66 debris. Remove invasive species. Mow as needed to prevent site or signage obstructions, fire hazard, or nuisance to the public. Do not remove down 67 stream sediment control measures until the vegetation is uniformly 68 69 established, including no large bare areas, and provides 70 percent of the 70 density of pre-disturbance vegetation. Temporary vegetative stabilization 71 shall not be used longer than one year.

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**(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt Fence Installation.

Alternative materials or methods to control, prevent, remove and dispose pollution are allowable if acceptable to the Engineer.

- 78 79 **209.03 Construction.** 
  - (A) **Preconstruction Requirements.**

(1) Water Pollution, Dust, and Erosion Control Meeting. Schedule a water pollution, dust, and erosion control meeting with the Engineer after Site-Specific BMP is accepted in writing by the Engineer. Meeting shall be scheduled a minimum of 7 calendar days prior to the Start Work Date. Discuss sequence of work, plans and proposals for water pollution, dust, and erosion control.

90	• •	Pollution, Dust, and Erosion Control Submittals.
91	Submit a Site-	Specific BMP Plan within 21 calendar days of date of
92	award. Subm	ission of complete and acceptable Site-Specific BMP
93	Plan is the sole	e responsibility of the Contractor and additional contract
94	time will not be	e issued for delays due to incompleteness. Include the
95	following:	
96		
97	(a) V	Vritten description of activities to minimize water
98	pollution	n and soil erosion into State waters, drainage or sewer
99	systems	s. BMP shall include the following:
100		
101	1	An identification of potential pollutants and their
102	S	sources.
103		
104	2	A list of all materials and heavy equipment to be
105	l	ised during construction.
106		5
107	3	B. Descriptions of the methods and devices used to
108	-	ninimize the discharge of pollutants into State waters,
109		Irainage or sewer systems.
110		
111	4	. Details of the procedures used for the
112		naintenance and subsequent removal of any erosion or
112		siltation control devices.
114	C	
115	F	. Methods of removing and disposing hazardous
116	-	vastes encountered or generated during construction.
117	v	vasies choodiliered of generated daming construction.
118	F	6. Methods of removing and disposing concrete and
119	-	sphalt pavement cutting slurry, concrete curing water,
120		and hydrodemolition water.
120	C	ind flydrodeffiolition water.
121	7	Spill Control and Prevention and Emergency Spill
122		Response Plan.
123	I	cesponse man.
124	c	Fugitive dust control, including dust from grinding.
	-	· · · · · · · · · · · · · · · · · · ·
126		weeping, or brooming off operations or combination
127	L	hereof.
128		Mathada of staring and handling of sile points
129		Methods of storing and handling of oils, paints
130	E	and other products used for the project.
131		• Metavial atomage and benefities areas and the
132		<b>0.</b> Material storage and handling areas, and other
133	S	staging areas.
134		
135	1	1. Concrete truck washouts.

126	40	Concrete weets control
136	12.	Concrete waste control.
137 138	13.	Fueling and maintenance of vehicles and other
139		Fueling and maintenance of vehicles and other
140	equip	oment.
140	14.	Tracking of sediment offsite from project entries
141	and e	
143		
144	15.	Litter management.
145	10.	Eller management.
146	16.	Toilet facilities.
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148	17.	Other factors that may cause water pollution, dust
149		erosion control.
150		
	(b) Provi	de plans indicating location of water pollution, dust
	· /	control devices; provide plans and details of BMPs
		ed or utilized; show areas of soil disturbance in cut
		licate areas used for construction staging and
155	storage incl	uding items (1) through (17) above, storage of
156	aggregate (i	ndicate type of aggregate), asphalt cold mix, soil or
157	solid waste,	equipment and vehicle parking, and show areas
158	where vege	tative practices are to be implemented. Indicate
		ainage pattern on plans. Include flow arrows.
160	Include sepa	arate drawing for each phase of construction that
161	alters draina	age patterns. Indicate approximate date when
	device will b	e installed and removed.
163		
	( <b>c)</b> Cons	truction schedule.
165	/ N	/
	• •	e(s) of specific individual(s) designated responsible
		ollution, dust, and erosion controls on the project
		e home, cellular, and business telephone numbers,
	ax numbers	s, and e-mail addresses.
170		ription of fill motorial to be used
	(e) Desc	ription of fill material to be used.
172 173	( <b>f</b> ) Forp	projects with an NRDES Pormit for Construction
	、 <i>/</i>	projects with an NPDES Permit for Construction ubmit information to address all sections in the
		r Pollution Prevention Plan (SWPPP).
176		r foldaloff revenaloff fan (Gwr Fr.).
	( <b>g</b> ) For p	rojects with an NPDES Permit, information required
		nce with the conditions of the Notice of General
	•	erage (NGPC)/NPDES Permit.
180		

(h) Site-Specific BMP Review Checklist. The checklist may be downloaded from HDOT's Stormwater Management website at http://stormwaterhawaii.com.

Date and sign Site-Specific BMP Plan. Keep accepted copy on site or at an accessible location so that it can be made available at the time of an on-site inspection or upon request by the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA Representative. Amendments to the Site-Specific BMP Plan shall be included with original Site-Specific BMP Plan. Modify SWPPP if necessary to conform to revisions. Include date of installation and removal of Site-Specific BMP measures. Obtain written acceptance by the Engineer before implementing revised Site-Specific BMPs in the field.

Follow the guidelines in the current HDOT "Construction Best Management Practices Field Manual", in developing, installing, and maintaining Site-Specific BMPs for all projects. 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, notify the Engineer immediately for interpretation. For the purposes of clarification "applicable bid documents" include the construction plans, standard specifications, special provisions, Permits, and the SWPPP when applicable.

> Follow Honolulu's City and County "Rules for Soil Erosion Standards and Guidelines" for all projects on Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii projects.

**(B) Construction Requirements.** Do not begin work until submittals detailed in Subsection 209.03(A)(2) - Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

Install, maintain, monitor, repair and replace site-specific BMP
 measures, such as for water pollution, dust and erosion control; installation,
 monitoring, and operation of hydrotesting activities; removal and disposal of
 hazardous waste indicated on plans, concrete cutting slurry, concrete curing
 water; or hydrodemolition water. Site-Specific BMP measures shall be in
 place, functional and accepted by HDOT personnel prior to initiating any
 ground disturbing activities.

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225 If necessary, furnish and install rain gage in a secure location prior to 226 field work including installation of site-specific BMP. Provide rain gage with a tolerance of at least 0.05 inches of rainfall. Install rain gage on project site 227 in an area that will not deter rainfall from entering the gate opening. Do not 228 install in a location where rain water may splash into rain gage. The rain 229 230 gage installation shall be stable and plumbed. Maintain rain gage and 231 replace rain gage that is stolen, does not function properly or accurately, is 232 worn out, or needs to be relocated. Do not begin field work until rain gage is installed and Site-Specific BMPs are in place. Rain gage data logs shall be 233 234 readily available. Submit rain gage data logs weekly to the Engineer.

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Address all comments received from the Engineer.

238 Modify and resubmit plans and construction schedules to correct 239 conditions that develop during construction which were unforeseen during 240 the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

Limit maximum surface area of earth material exposed at any time to 300,000 square feet. Do not expose or disturb surface area of earth material (including clearing and grubbing) until BMP measures are installed and accepted in writing by the Engineer. Protect temporarily or permanently disturbed soil surface from rainfall impact, runoff and wind before end of the work day.

Immediately initiate stabilizing exposed soil areas upon completion of 252 253 earth disturbing activities for areas permanently or temporarily ceased on any portion of the site. Earth-disturbing activities have permanently ceased when 254 clearing and excavation within any area of the construction site that will not 255 256 include permanent structures has been completed. Earth-disturbing 257 activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not 258 259 resume for a period of 14 or more calendar days, but such activities will resume in the future. The term "immediately" is used in this section to define 260 the deadline for initiating stabilization measures. "Immediately" means as 261 soon as practicable, but no later than the end of the next work day, following 262 the day when the earth-disturbing activities have temporarily or permanently 263 264 ceased.

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For projects with an NPDES Permit for Construction activities:

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 (1) For construction areas discharging into waters not impaired for nutrients or sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing

271	activities.
272	(2) For construction areas discharging into nutrient or sediment
273	impaired waters, complete initial stabilization within 7 calendar days
274	after the temporary or permanent cessation of earth-disturbing
275	activities.
275	
	For projects without on NDDES Dermit for Construction activities
277	For projects without an NPDES Permit for Construction activities,
278	complete initial stabilization within 14 calendar days after the temporary or
279	permanent cessation of earth-disturbing activities.
280	
281	Any of the following types of activities constitutes initiation of
282	stabilization:
283	
284	(1) Prepping the soil for vegetative or non-vegetative stabilization;
285	
286	(2) Applying mulch or other non-vegetative product to the exposed
287	area;
288	
289	(3) Seeding or planting the exposed area;
290	
290	(4) Starting any of the activities in items $(1) - (3)$ above on a portion
292	of the area to be stabilized, but not on the entire area; and
292 293	of the area to be stabilized, but not on the entire area, and
	(E) Finalizing arrangements to have stabilization product fully
294	(5) Finalizing arrangements to have stabilization product fully
295	installed in compliance with the deadline for completing initial
296	stabilization activities.
297	
298	Any of the following types of activities constitutes completion of initial
299	stabilization activities:
300	
301	(1) For vegetative stabilization, all activities necessary to initially
302	seed or plant the area to be stabilized; and/or
303	
304	(2) For non-vegetative stabilization, the installation or application
305	of all such non-vegetative measures.
306	5
307	If the Contractor is unable to meet the deadlines above due to
308	circumstances beyond the Contractor's control, and the Contractor is using
309	vegetative cover for temporary or permanent stabilization, the Contractor
310	may comply with the following stabilization deadlines instead as agreed to by
311	the Engineer:
312	
	(1) Immodiately initiate, and complete within the timeframe charge
313	(1) Immediately initiate, and complete within the timeframe shown
314	above, the installation of temporary non-vegetative stabilization
315	measures to prevent erosion;
316	

317 (2) Complete all soil conditioning, seeding, watering or irrigation
 318 installation, mulching, and other required activities related to the
 319 planting and initial establishment of vegetation as soon as conditions
 320 or circumstances allow it on the site; and

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- 322(3) Notify and provide documentation to the Engineer the<br/>circumstances that prevent the Contractor from meeting the deadlines<br/>above for stabilization and the schedule the Contractor will follow for<br/>initiating and completing initial stabilization and as agreed to by the<br/>Engineer.
- Follow the applicable requirements of the specifications and special provisions including Section 619 Planting and Section 641 Hydro-Mulch Seeding.
- Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or planted area, select, design, and install non-vegetative erosion controls that provide cover (e.g., mulch, rolled erosion control products) to the area while vegetation is becoming established.
- Protect exposed or disturbed surface area with mulches, grass seeds or hydromulch. Spray mulches at a rate of 2,000 pounds per acre. Add tackifier to mix at a rate of 85 pounds per acre. Apply grass seeds at a rate of 125 pounds per acre. For hydromulch, use the ingredients and rates required for mulches and grass seeds. Submit recommendations from a licensed Landscape Architect when deviating from the application rates above.
- Apply fertilizer to mulches, grass seed or hydromulch per manufacturer's recommendations. Submit recommendations from a licensed Landscape Architect when deviating from the manufacturer's recommendations.
- Install velocity dissipation measures when exposing erodible surfacesgreater than 15 feet in height.
  - BMP measures shall be in place and operational at the end of work day or as required by Section 209.03(B) Construction Requirements.
- Install and maintain either or both stabilized construction entrances
   and wheel washes to minimize tracking of dirt and mud onto roadways.
   Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other
   material tracked onto the road, sidewalk, or other paved area by the end of
   the same day in which the track-out occurs. Modify stabilized construction
   entrances to prevent mud from being tracked onto road. Stabilize entire

363	access roads if necessary.
364	Chemicals may be used as soil stabilizers for either or both erosion
365	and dust control if acceptable to the Engineer.
366	
367	Provide temporary slope drains of rigid or flexible conduits to carry
368	runoff from cuts and embankments. Provide portable flume at the entrance.
369	Shorten or extend temporary slope drains to ensure proper function.
370	
371	Protect ditches, channels, and other drainageways leading away from
372	cuts and fills at all times by either:
373	
374	(1) Hydro-mulching the lower region of embankments in the
375	immediate area.
376	
377	(2) Installing check dams and siltation control devices.
378	
379	(3) Other methods acceptable to the Engineer.
380	
381	Provide for controlled discharge of waters impounded, directed, or
382	controlled by project activities or erosion control measures.
383	
384	Cover exposed surface of materials completely with tarpaulin or
385	similar device when transporting aggregate, soil, excavated material or
386	material that may be source of fugitive dust.
387	
388	Cleanup and remove any pollutant that can be attributed to the
389	Contractor.
390	
391	Install or modify Site-Specific BMP measures due to change in the
392	Contractor's means and methods, or for omitted condition that should have
393	been allowed for in the accepted Site-Specific BMP or a Site-Specific BMP
394	that replaces an accepted Site-Specific BMP that is not satisfactorily
395	performing. Modifications to Site-Specific BMP measures shall be accepted
396	in writing by the Engineer prior to implementation.
397	
398	Properly maintain all Site-Specific BMP measures.
399	
400	For projects with an NPDES Permit for Construction Activities:
401	
402	(1) For construction areas discharging into nutrient or sediment
403	impaired waters, inspect, prepare a written report, and make repairs
404	to BMP measures at the following intervals:
405	
406	(a) Weekly.
407	
408	(b) Within 24 hours of any rainfall of 0.25 inch or greater

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409	which occurs in a 24-hour period.
410	
411	(c) When existing erosion control measures are damaged
412	or not operating properly as required by Site-Specific BMP.
413	
414	(2) For construction areas discharging to waters not impaired for
415	nutrients or sediments, inspect, prepare a written report, and make
416	repairs to BMP measures at the following intervals:
417	
418	(a) Weekly.
419	
420	(b) When existing erosion control measures are damaged
421	or not operating properly as required by Site-Specific BMP.
422	
423	For projects without an NPDES Permit for Construction activities,
424	inspect, prepare a written report, and make repairs to BMP measures at the
425	following intervals:
426	
427	(a) Weekly.
428	
429	(b) When existing erosion control measures are damaged
430	or not operating properly as required by Site-Specific BMP.
431	
432	Temporarily remove, replace or relocate any Site-Specific BMP that
433	must be removed, replaced or relocated due to potential or actual flooding,
434	or potential danger or damage to project or public.
435	
436	Maintain records of inspections of Site-Specific BMP work. Keep
437	continuous records for duration of the project. Submit copy of Inspection
438	Report to the Engineer within 24 hours after each inspection.
439	
440	The Contractor's designated representative specified in Subsection
441	209.03(A)(2)(d) shall address any Site-Specific BMP deficiencies brought up
442	by the Engineer immediately, including weekends and holidays, and
443	complete work to fix the deficiencies by the close of the next work day if the
444	problem does not require significant repair or replacement, or if the problem
445	can be corrected through routine maintenance. Address any Site-Specific
446	BMP deficiencies brought up by the State's Third-Party Inspector in the
447	timeframe above or as specified in the Consent Decree or MS4 NPDES
448	Permit, whichever is more stringent. The Consent Decree timeframe
449	requirement applies statewide. The MS4 NPDES Permit only applies to
450	Oahu. In this section, "immediately" means the Contractor shall take all
451	reasonable measures to minimize or prevent discharge of pollutants until a
452	permanent solution is installed and made operational. If a problem is
453	identified at a time in the day in which it is too late to initiate repair, initiation
454	of repair shall begin on the following work day. When installation of a new

455 pollution prevention control or a significant repair is needed, complete 456 installation or repair no later than seven calendar days from the time of notification/Contractor discovery. Notify the Engineer and document why it 457 458 is infeasible to complete the installation or repair within seven calendar days 459 and complete the work as soon as practicable and as agreed to by the 460 Address Site-Specific BMP deficiencies discovered by the Engineer. Contractor within the timeframe above. The Contractor's failure to 461 462 satisfactorily address these Site-Specific BMP deficiencies, the Engineer reserves the right to employ outside assistance or use the Engineer's own 463 464 labor forces to provide necessary corrective measures. The Engineer will charge the Contractor such incurred costs plus any associated project 465 engineering costs. The Engineer will make appropriate deductions from the 466 Contractor's monthly progress estimate. Failure to apply Site-Specific BMP 467 measures may result in one or more of the following: assessment of 468 liquidated damages, suspension, or cancellation of Contract with the 469 470 Contractor being fully responsible for all additional costs incurred by the 471 State. 472

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(C) Discharges of Storm Water Associated with Construction Water Associated with Construction Water Associated with Construction Activity (CWB-NOI Form C) or Individual Permit authorizing storm water discharges associated with construction activity is required from the Department of Health Clean Water Branch (DOH-CWB).

480 Do not begin construction activities until all required conditions of the
481 permit are met and submittals detailed in Subsection 209.03(A)(2) – Water
482 Pollution, Dust, and Erosion Control Submittals are completed and accepted
483 in writing by the Engineer.
484

- (D) Discharges Associated with Hydrotesting Activities. If
  hydrotesting activities require effluent discharge into State waters or drainage
  systems, an NPDES Hydrotesting Waters Permit (CWB-NOI Form F) or
  Individual Permit authorizing discharges associated with hydrotesting from
  DOH-CWB is required from the DOH-CWB.
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491 Do not begin hydrotesting activities until the DOH-CWB has issued an
492 Individual NPDES Permit or Notice of General Permit Coverage (NGPC).
493 Conduct Hydrotesting operations in accordance with the conditions of the
494 permit or NGPC.

496 (E) Discharges Associated with Dewatering Activities. If dewatering
 497 activities require effluent discharge into State waters or drainage systems, an
 498 NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit
 499 authorizing discharges associated with dewatering from DOH-CWB is
 500 required from the DOH-CWB.

502 Do not begin dewatering activities until the DOH-CWB has issued an 503 Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct dewatering operations in accordance with the conditions of the 504 505 permit or NGPC.

506

507 Submit the Solid Waste Disclosure Form for (F) Solid Waste. 508 Construction Sites to the Engineer within 30 calendar days of contract 509 certification date. Keep copies on site or at an accessible location so that it 510 can be made available at the time of an on-site inspection or upon request 511 by the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA Representative. Provide a copy of all the disposal receipts from the facility 512 permitted by the Department of Health to receive solid waste to the Engineer 513 monthly. This should also include documentation from any intermediary 514 facility where solid waste is handled or processed, haul tags as applicable, 515 or any documentation as requested or as directed by the Engineer. Notify 516 Engineer at minimum 48 hours prior to removal of material from site. All 517 material not used on the project shall be considered solid waste. If the 518 Contractor elects to reclassify the solid waste as inert fill, follow the 519 requirements in Section 219 - Determination and Characterization of Fill 520 521 Material.

Construction BMP Training. The Contractor's representative (G) responsible for development of the Site-Specific BMP Plan and implementation of Site-Specific BMPs in the field shall attend the State's Construction Best Management Practices Training. The Contractor shall keep training logs updated and readily available.

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## Measurement.

Installation, maintenance, monitoring, and removal of BMP will be paid (A) on a lump sum basis. Measurement for payment will not apply.

534 **(B)** The Engineer will only measure additional water pollution, dust and erosion control required and requested by the Engineer on a force account 535 536 basis in accordance with Subsection 109.06 - Force Account Provisions and 537 Compensation.

- 539 **Payment.** The Engineer will pay for accepted pay items listed below at 209.05 contract price per pay unit, as shown in the proposal schedule. Payment will be full 540 compensation for work prescribed in this section and contract documents. 541
- 542

538

543 The Engineer will pay for each of the following pay items when included in proposal schedule: 544 545

546 Pay Item

Pay Unit

548	Installation, Maintenance, Monitoring, and Removal of BMP	Lump Sum
549		

550 Additional Water Pollution, Dust, and Erosion Control Force Account

552 An estimated amount for force account is allocated in proposal schedule 553 under 'Additional Water Pollution, Dust, and Erosion Control', but actual amount to 554 be paid will be the sum shown on accepted force account records, whether this sum 555 be more or less than estimated amount allocated in proposal schedule. The 556 Engineer will pay for BMP measures requested by the Engineer that are beyond 557 scope of accepted Site-Specific BMP on a force account basis.

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559 No progress payment will be authorized until the Engineer accepts in writing 560 Site-Specific BMP or when the Contractor fails to maintain project site in accordance 561 with accepted BMP.

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563 For all citations or fines received by the Department for non-compliance, 564 including compliance with NPDES Permit conditions, the Contractor shall reimburse 565 State within 30 calendar days for full amount of outstanding cost State has incurred, 566 or the Engineer will deduct cost from progress payment.

567

568 The Engineer will assess liquidated damages up to \$27,500 per day for non-569 compliance of each BMP requirement and all other requirements in this section.

## 571 Appendix A

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573 The following list identifies potential pollutant sources and corresponding 574 BMPs used to mitigate the pollutants. Each BMP is referenced to the corresponding section of the current HDOT Construction Best Management 575 Practices Field Manual or appropriate Supplemental Sheets. The Manual may be 576 577 obtained from the HDOT Statewide Stormwater Management Program Website at 578 http://www.stormwaterhawaii.com/resources/contractors-and-consultants/ under 579 Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at http://www.stormwaterhawaii.com/resources/contractors-580 and-consultants/storm-water-pollution-prevention-plan-swppp/ under Concrete 581 582 Curing and Irrigation Water.

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Construction debris, green waste, general litter	<ul> <li>Separate contaminated clean up materials from construction and demolition (C&amp;D) wastes.</li> <li>Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.</li> <li>Inspect construction waste and recycling areas regularly.</li> <li>Schedule solid waste collection regularly.</li> <li>Schedule recycling activities based on construction/demolition phases.</li> <li>Empty waste containers weekly or when they are two-thirds full, whichever is sooner.</li> <li>Do not allow containers to overflow. Clean up immediately if they do.</li> <li>On work days, clean up and dispose of waste in designated waste containers.</li> <li>See Solid Waste Management Section SM-6 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Solid Waste Management Section SM-6. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	<ul> <li>Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical.</li> <li>Designate bermed wash area if cleaning on site is necessary.</li> <li>Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.</li> <li>Provide an ample supply of readily available spill cleanup materials.</li> <li>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</li> <li>Do not clean surfaces or spills by hosing the area down.</li> <li>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</li> <li>Inspect on-site vehicles and equipment regularly and immediately repair leaks.</li> <li>Regularly inspect fueling areas and storage tanks.</li> </ul>	See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM- 11, SM-12, and SM-13, and Material Delivery, Storage and Material Use Sections SM-2 and SM-3, and Spill Prevention and Control SM-10.

Pollutant	Appropriate Site-Specific BMP to be	BMP Boquiromonts
Source	<ul> <li>Implemented</li> <li>Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.</li> <li>Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.</li> <li>Do not remove original product labels and comply with manufacturer's labels for proper disposal.</li> <li>Dispose of containers only after all the product has been used.</li> <li>Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.</li> <li>Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.</li> <li>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM- 12, and SM-13 and Material Use Section SM-3 for additional requirements.</li> </ul>	Requirements

Source	Appropriate Site-Specific BMP to be Implemented	Doguironsanta
		Requirements
from the disturbed areas	<ul> <li>Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-2, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-9, Level Spreader SC-10, Paving Operations SM-19, Construction Road Stabilization EC-1, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non- Structural BMPs (Employee Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-16).</li> <li>Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.</li> <li>Preserve native topsoil where practicable.</li> <li>In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth.</li> <li>For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised.</li> <li>Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the same day in which it is found or by the end of the same day in which HAR 11-55.</li> <li>Minimize disturbance on steep slopes (Greater than 15% in grade).</li> <li>If disturbance of steep slopes are unavoidable, phase disturbances and use stabilization techniques designed for steep grades.</li> <li>For temporary drains and swales use velocity dissipation devices within and at the outlet to minimize erosive flow velocities.</li> </ul>	RequirementsSoilSoilStabilization1. SM-21TopsoilManagement2. EC-5Seeding andPlanting3. EC-6Mulching4. EC-7Geotextilesand MatsSlopeProtection1. EC-5Seeding andPlanting2. EC-6Mulching3. EC-7Geotextilesand Mats2. EC-6Mulching3. EC-7Geotextilesand Mats4. EC-9SlopeRoughening,Terracing, andRounding5. SC-11Slope DrainsandSubsurfaceDrains6. SC-12Top and Toeof SlopeDiversionDitches andBermsSC-2 StormDrain InletProtection

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
		Perimeter
		Controls and
		Sediment
		Barriers
		1. SC-1 Silt
		Fence
		2. SC-5
		Vegetated
		Filter Strips
		and Buffers
		3. SC-8
		Compost Filter
		Berm
		4. SC-13
		Sandbag
		Barrier
		5. SC-14
		Brush or Rock
		Filter
		Sediment
		Basins and
		Detention
		Ponds
		1. SC-15
		Sediment Trap
		2. SC-16
		Sediment
		Basin
		Dasin
		SC-9 Check
		Dams
		SC-10 Level
		Spreader
		SM-19 Paving
		Operations
		ÉC-1
		Construction
		Road
		Stabilization

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
		Controlling
		Storm Water
		Flowing onto
		and Through
		the Project
		1. EC-8
		Run-On
		Diversion
		2. SC-6
		Earth Dike
		3. SC-7
		Temporary
		Drains and
		Swales
		Post
		Construction
		BMPs
		1. EC-4
		Flared Culvert
		End Sections
		2. SC-3 Rip-
		Rap and
		Gabion Inflow
		Protection
		3. SC-4
		Outlet
		Protection and
		Velocity
		Dissipation
		Devices
		4. SM-21
		Topsoil
		Management

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
		Non-Structural
		BMPs
		1. SM-1
		Employee
		Training
		2. SM-14
		Scheduling
		3. SM-15
		Location of
		Potential
		Sources of
		Sediment
		4. SM-16
		Preservation
		of Existing
		Vegetation

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP Degruiremente
Sediment from soil stockpiles	<ul> <li>Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff or outside of any natural buffers identified on the SWPPP.</li> <li>Place bagged materials on pallets and under cover.</li> <li>Provide physical diversion to protect stockpiles from concentrated runoff.</li> <li>Cover stockpiles with plastic or comparable material when practicable.</li> <li>Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.</li> <li>Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.</li> <li>Unless infeasible, contain and securely protect stockpiles from the wind.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> <li>See Protection of Stockpiles Section SM-4 for additional requirements.</li> </ul>	Requirements See Protection of Stockpiles Section SM-4. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
Emulsified asphalt or prime/tack coat	<ul> <li>Provide training for employees and contractors on proper material delivery and storage practices and procedures.</li> <li>Restrict paving operations during wet weather to prevent paving materials from being discharged.</li> <li>Use asphalt emulsions such as prime coat when possible.</li> <li>Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.</li> <li>Keep ample supplies of drip pans and absorbent materials on site.</li> <li>Inspect inlet protection devices.</li> <li>See Material Delivery and Storage Section SM-2 and Paving Operations Section SM-19 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Material Delivery and Storage Section SM-2 and Material Use Section SM-3, Paving Operations Section SM- 19, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
Materials associated with painting, such as paint and paint wash solvent	<ul> <li>Hazardous chemicals shall be well-labeled and stored in original containers.</li> <li>Keep ample supply of cleanup materials on site.</li> <li>Dispose container only after all of the product has been used.</li> <li>Remove as much paint from brushes on painted surface.</li> <li>Rinse from water-based paints shall be discharged into the sanitary sewer system where possible. If not, direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</li> <li>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>Do not dump liquid wastes into the storm drainage system.</li> <li>Filter and re-use solvents and thinners.</li> <li>Dispose of oil-based paints, and residue as a hazardous waste.</li> <li>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</li> <li>Immediately clean up spills and leaks</li> <li>Properly store paints, solvents, and epoxy compounds.</li> <li>Properly store and dispose waste materials generated from painting and structure repair and construction activities.</li> <li>Mix paints in a covered and contained area when possible to minimize adverse impacts from spills.</li> <li>Do not apply traffic paint or thermoplastic if rain is forecasted.</li> <li>See Material Delivery and Storage Section SM-2, Material Use SM-3, Waste Management, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction activities.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
Source Industrial chemicals, fertilizers, and/or pesticides	<ul> <li>Hazardous chemicals shall be well-labeled and stored in original containers.</li> <li>Keep ample supply of cleanup materials on site.</li> <li>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</li> <li>Do not clean surfaces or spills by hosing the area down.</li> <li>Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.</li> <li>Dispose container only after all of the product has been used.</li> <li>Retain a complete set of material safety data sheets on site.</li> <li>Store industrial chemicals in water-tight containers and provide either cover or secondary containment.</li> <li>Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.</li> <li>Restrict amount of pesticide prepared to quantity necessary for the current application.</li> <li>Do not apply fertilizers or pesticides during or just before a rain event.</li> <li>Do not apply to stormwater conveyance channels with flowing water.</li> <li>Comply with fertilizer and pesticide manufacturer's recommended usage instructions.</li> <li>Follow federal, state, and local laws regarding fertilizer application.</li> <li>Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris.</li> <li>Ensure collection, removal, and disposal of hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</li> <li>See Material Delivery and Storage Section SM2, Material Use SM-3, and Waste Management, Hazardous Waste Management Section SM-9 for additional requirements.</li> </ul>	Requirements See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9, and Spill Prevention and Control SM-10

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	<ul> <li>Do not dispose of toxic materials in dumpsters allocated for construction debris.</li> <li>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</li> <li>Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</li> <li>Segregate and recycle wastes from vehicle/ equipment maintenance activities such as used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids.</li> <li>Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.</li> <li>All containers stored outside shall be kept away from surface waters and within appropriately-sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.</li> <li>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</li> <li>Do not clean surfaces or spills by hosing the area down.</li> <li>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</li> <li>Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.</li> <li>See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12 for additional requirements.</li> </ul>	See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
<i>Metals and Building Materials</i>	<ul> <li>Inspect construction waste and recycling areas regularly.</li> <li>Schedule solid waste collection regularly.</li> <li>If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.</li> <li>Minimize the amount of material stored on site.</li> <li>Do not stockpile uncovered metals or other building materials in close proximity to discharge points.</li> <li>See Solid Waste Management Section SM-6 for additional requirements.</li> </ul>	See Solid Waste Management Section SM-6
Contaminated Soil	<ul> <li>See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Waste Management Section SM-9 for additional requirements.</li> <li>At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets.</li> </ul>	See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Waste Management Section SM-9
Dust Control Water	<ul> <li>Do not over spray water for dust control purposes which will result in runoff from the area.</li> <li>Apply water as conditions require.</li> <li>Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.</li> <li>See Dust Control Section SM-18 for additional requirements.</li> </ul>	See Dust Control Section SM-18
Concrete Truck Wash Water	<ul> <li>Disposal of concrete truck wash water via percolation is prohibited.</li> <li>Wash concrete-coated vehicles or equipment off-site or in the designated wash area.</li> <li>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.</li> <li>Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.</li> </ul>	See Waste Management, Concrete Waste Management Section SM-5

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
	<ul> <li>The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.</li> <li>Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.</li> <li>Do not dump liquid wastes into storm drainage system.</li> <li>Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.</li> <li>See Waste Management, Concrete Waste Management Section SM-5 for additional requirements.</li> </ul>	
Sediment Track-Out	<ul> <li>Include Stabilized Construction Entrance at all points that exit onto paved roads.</li> <li>A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.</li> <li>The pavement shall not be cleaned by washing down the street.</li> <li>If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.</li> <li>Use BMPs for adjacent drainage structures.</li> <li>Remove sediment tracked onto the street by the end of the day in which the track-out occurs.</li> <li>Restrict vehicle use to properly designated exit points.</li> <li>Include additional BMPs which remove sediment prior to exit when minimum dimensions can not be met.</li> <li>See Stabilized Construction Entrance Section EC-2 for additional requirements.</li> </ul>	See Stabilized Construction Entrance Section EC-2

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Irrigation Water	<ul> <li>Consider irrigation requirements.</li> <li>Where possible, avoid species which require irrigation.</li> <li>Design timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.</li> <li>See Seeding and Planting Section EC-5 and California Stormwater BMP Handbook SD-12 Efficient Irrigation at <a href="http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/under Irrigation Water for">http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/under Irrigation Water for</a></li> </ul>	See Seeding and Planting Section EC-5 and California Stormwater BMP Handbook SD-12 Efficient Irrigation
Hydrotesting Effluent	<ul> <li>additional requirements.</li> <li>If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Hydrotesting Activities if necessary. Site-Specific BMPs will be included in the NOI/NPDES Permit Form F submittal.</li> </ul>	Site-Specific BMPs will be included in the NOI/NPDES Permit Form F submittal.
Dewatering Effluent	<ul> <li>If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-17 for additional requirements.</li> </ul>	See Dewatering Operations SM- 17. Site- Specific BMPs will be included in the NOI/NPDES Permit Form G submittal.

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Saw-cutting Slurry	<ul> <li>Saw cut slurry shall be removed from the site by vacuuming.</li> <li>Provide storm drain protection during saw cutting. See Paving Operations Section SM-19 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Paving Operations Section SM- 19, Storm Drain Inlet Protection SC-2, Perimeter sediment controls where applicable
Concrete Curing Water	<ul> <li>Avoid overspraying of curing compounds.</li> <li>Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.</li> <li>See California Stormwater BMP Handbook NS-12 Concrete Curing at <a href="http://www.stormwaterhawaii.com/resources/">http://www.stormwaterhawaii.com/resources/</a> contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/ under Concrete Curing for additional requirements.</li> </ul>	See California Stormwater BMP Handbook NS- 12 Concrete Curing
Plaster Waste Water	<ul> <li>Direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</li> <li>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of.</li> <li>Plaster waste water shall not be allowed to flow into drainage structures or State waters.</li> <li>See Material Delivery and Storage Section SM-2, Material Use SM-3, and Hazardous Waste Management Section SM-9 for additional requirements.</li> </ul>	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Water-Jet Wash Water	<ul> <li>For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.</li> <li>See Vehicle and Equipment Cleaning Section SM-11 for additional information.</li> <li>For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.</li> </ul>	See Vehicle and Equipment Cleaning Section SM-11
Sanitary/Septic Waste	<ul> <li>Locate Sanitary facilities in a convenient place away from drainage facilities.</li> <li>Position sanitary facilities so they are secure and will not be tipped over or knocked down.</li> <li>Wastewater shall not be discharged to the ground or buried.</li> <li>A licensed service provider shall maintain sanitary/septic facilities in good working order.</li> <li>Schedule regular waste collection by a licensed transporter.</li> <li>See Sanitary/Septic Waste Section SM-7 for additional requirements.</li> </ul>	See Sanitary/Septic Waste Section SM-7.

## **END OF SECTION 209**