1 Amend Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION 2 **CONTROL** to read as follows: 3 4 **"SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION** 5 CONTROL 6 7 209.01 **Description.** This section describes the following: 8 9 Including detailed plans, diagrams, and written Site-Specific Best (A) Management Practices (BMP); constructing, maintaining, and repairing 10 temporary water pollution, dust, and erosion control measures at the project 11 site, including local material sources, work areas and haul roads; removing 12 and disposing hazardous wastes; control of fugitive dust (defined as 13 uncontrolled emission of solid airborne particulate matter from any source 14 other than combustion); and complying with applicable State and Federal 15 permit conditions. 16 17 18 Work associated with construction stormwater, dewatering, and **(B)** hydrotesting activities and complying with conditions of the National Pollutant 19 Discharge Elimination System (NPDES) permit(s) authorizing discharges 20 associated with construction stormwater, dewatering, and hydrotesting 21 22 activities. 23 24 Potential pollutant identification and mitigation measures are listed in (C) 25 Appendix A for use in the development of the Contractor's Site-Specific BMP. 26 27 Requirements of this section also apply to construction support activities including concrete or asphalt batch plants, rock crushing plants, 28 29 equipment staging yards/areas, material storage areas, excavated material disposal areas, and borrow areas located outside the State Right-of-Way. 30 For areas serving multiple construction projects, or operating beyond the 31 completion of the construction project in which it supports, the Contractor 32 shall be responsible for securing the necessary permits, clearances, and 33 34 documents, and following the conditions of the permits and clearances, at no 35 cost to the State. 36 37 209.02 **Materials**. Comply with applicable materials described in Chapters 2 and 38 3 of the current HDOT "Construction Best Management Practices Field Manual". In addition, the materials shall comply with the following: 39 40 41 **Grass.** Grass shall be a quick growing species such as rye grass, (A) Italian rye grass, or cereal grasses. Grass shall be suitable to the area and 42 provide a temporary cover that will not compete later with permanent cover. 43 44 Alternative grasses are allowable if acceptable to the Engineer.

- 45 46
- (B) Fertilizer and Soil Conditioners. Fertilizer and soil conditioners shall

be a standard commercial grade acceptable to the Engineer. Fertilizer shall
conform to Subsection 619.02(H)(1) - Commercial Fertilizer.

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

(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 **209.03 Construction.**
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## (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.

89 90	<b>、</b> /	Pollution, Dust, and Erosion Control Submittals. Be-Specific BMP Plan within 21 calendar days of date of
91		mission of complete and acceptable Site-Specific BMP
92		le responsibility of the Contractor and additional contract
93		be issued for delays due to incompleteness. Include the
93	following:	be issued for delays due to incompleteness. Include the
94 95	ionowing.	
95 96	$(\mathbf{a})$	Written departmention of activities to minimize water
90 97	(a)	Written description of activities to minimize water on and soil erosion into State waters, drainage or sewer
98		ns. BMP shall include the following:
99	Syster	
100		<b>1.</b> An identification of potential pollutants and their
100		sources.
101		5001CES.
102		2. A list of all materials and heavy equipment to be
103		used during construction.
104		
105		<b>3.</b> Descriptions of the methods and devices used to
107		minimize the discharge of pollutants into State waters,
107		drainage or sewer systems.
109		
110		4. Details of the procedures used for the
111		maintenance and subsequent removal of any erosion or
112		siltation control devices.
113		
114		<b>5.</b> Methods of removing and disposing hazardous
115		wastes encountered or generated during construction.
116		
117		6. Methods of removing and disposing concrete and
118		asphalt pavement cutting slurry, concrete curing water,
119		and hydrodemolition water.
120		
121		7. Spill Control and Prevention and Emergency Spill
122		Response Plan.
123		
124		8. Fugitive dust control, including dust from
125		grinding, sweeping, or brooming off operations or
126		combination thereof.
127		
128		<b>9.</b> Methods of storing and handling of oils, paints
129		and other products used for the project.
130		40 Meterial stars and handline second of the
131		<b>10.</b> Material storage and handling areas, and other
132		staging areas.
133 134		<b>11.</b> Concrete truck washouts.
134		

125	40	
135	12.	Concrete waste control.
136	40	Evelop and maintenance of vehicles and other
137	13.	Fueling and maintenance of vehicles and other
138	equip	oment.
139		
140	14.	Tracking of sediment offsite from project entries
141	and	exits.
142	. –	
143	15.	Litter management.
144		
145	16.	Toilet facilities.
146		
147	17.	Other factors that may cause water pollution,
148	dust	and erosion control.
149		
150 <b>(b)</b>	Prov	ide plans indicating location of water pollution, dust
151 and	d erosion	control devices; provide plans and details of BMPs
152 to l	be installe	ed or utilized; show areas of soil disturbance in cut
153 and	d fill, inc	dicate areas used for construction staging and
154 sto	rage inc	luding items (1) through (17) above, storage of
155 ag	gregate (i	indicate type of aggregate), asphalt cold mix, soil or
156 sol	id waste	, equipment and vehicle parking, and show areas
157 wh	ere vege	tative practices are to be implemented. Indicate
158 inte	ended dr	rainage pattern on plans. Include flow arrows.
159 Inc	lude sep	arate drawing for each phase of construction that
		age patterns. Indicate approximate date when
		be installed and removed.
162		
163 <b>(c)</b>	Cons	struction schedule.
164		
165 <b>(d)</b>	Nam	e(s) of specific individual(s) designated responsible
166 for		ollution, dust, and erosion controls on the project
		e home, cellular, and business telephone numbers,
		s, and e-mail addresses.
169		
170 <b>(e)</b>	Desc	cription of fill material to be used.
171		
172 <b>(f)</b>	For a	projects with an NPDES Permit for Construction
()		submit information to address all sections in the
		er Pollution Prevention Plan (SWPPP).
175		× /
176 <b>(g)</b>	For	projects with an NPDES Permit, information
		compliance with the conditions of the Notice of
	•	rmit Coverage (NGPC)/NPDES Permit.
179	•	

(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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224	If necessary, furnish and install rain gage in a secure location prior to
225	field work including installation of site-specific BMP. Provide rain gage with a
226	tolerance of at least 0.05 inches of rainfall. Install rain gage on project site in
227	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	gage installation shall be stable and plumbed. Maintain rain gage and
230	replace rain gage that is stolen, does not function properly or accurately, is
231	worn out, or needs to be relocated. Do not begin field work until rain gage is
232	installed and Site-Specific BMPs are in place. Rain gage data logs shall be
233	readily available. Submit rain gage data logs weekly to the Engineer.
234	
235	Address all comments received from the Engineer.
236	
237	Modify and resubmit plans and construction schedules to correct
238	conditions that develop during construction which were unforeseen during the
239	design and pre-construction stages.
240	design and pre-construction stages.
240	Coordinate temporary control provisions with permanent control
242	features throughout the construction and post-construction period.
243	leatures throughout the construction and post construction period.
243	Limit maximum surface area of earth material exposed at any time to
245	300,000 square feet. Do not expose or disturb surface area of earth material
243 246	(including clearing and grubbing) until BMP measures are installed and
240 247	accepted in writing by the Engineer. Protect temporarily or permanently
247	disturbed soil surface from rainfall impact, runoff and wind before end of the
248 249	•
	work day.
250	Immediately initiate stabilizing synapsed soil gross your completion of
251	Immediately initiate stabilizing exposed soil areas upon completion of
252 252	earth disturbing activities for areas permanently or temporarily ceased on any
253	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	include permanent structures has been completed. Earth-disturbing activities
256	have temporarily ceased when clearing, grading, and excavation within any
257	area of the site that will not include permanent structures will not resume for
258	a period of 14 or more calendar days, but such activities will resume in the
259	future. The term "immediately" is used in this section to define the deadline
260	for initiating stabilization measures. "Immediately" means as soon as
261	practicable, but no later than the end of the next work day, following the day
262	when the earth-disturbing activities have temporarily or permanently ceased.
263	
264	For projects with an NPDES Permit for Construction activities:
265	
266	(1) For construction areas discharging into waters not impaired for
267	nutrients or sediments, complete initial stabilization within 14 calendar
268	days after the temporary or permanent cessation of earth-disturbing
269	activities.

270	(2) For construction areas discharging into nutrient or sediment
271	impaired waters, complete initial stabilization within 7 calendar days
272	after the temporary or permanent cessation of earth-disturbing
272	activities.
	activities.
274	
275	For projects without an NPDES Permit for Construction activities,
276	complete initial stabilization within 14 calendar days after the temporary or
277	permanent cessation of earth-disturbing activities.
278	
279	Any of the following types of activities constitutes initiation of
280	stabilization:
280	
	(1) Dranning the sail for vegetative or nen vegetative stabilization
282	(1) Prepping the soil for vegetative or non-vegetative stabilization;
283	
284	(2) Applying mulch or other non-vegetative product to the exposed
285	area;
286	
287	(3) Seeding or planting the exposed area;
288	
289	(4) Starting any of the activities in items $(1) - (3)$ above on a
290	portion of the area to be stabilized, but not on the entire area; and
290	
	(5) Finalizing arrangements to have stabilization product fully
292	(5) Finalizing arrangements to have stabilization product fully
293	installed in compliance with the deadline for completing initial
294	stabilization activities.
295	
296	Any of the following types of activities constitutes completion of initial
297	stabilization activities:
298	
299	(1) For vegetative stabilization, all activities necessary to initially
300	seed or plant the area to be stabilized; and/or
301	
302	(2) For non-vegetative stabilization, the installation or application of
302	all such non-vegetative measures.
	all such non-vegetative measures.
304	
305	If the Contractor is unable to meet the deadlines above due to
306	circumstances beyond the Contractor's control, and the Contractor is using
307	vegetative cover for temporary or permanent stabilization, the Contractor
308	may comply with the following stabilization deadlines instead as agreed to by
309	the Engineer:
310	
311	(1) Immediately initiate, and complete within the timeframe shown
312	above, the installation of temporary non-vegetative stabilization
312	measures to prevent erosion;
313	
514	

315 Complete all soil conditioning, seeding, watering or irrigation (2) 316 installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions 317 318 or circumstances allow it on the site; and 319 320 Notify and provide documentation to the Engineer the (3) 321 circumstances that prevent the Contractor from meeting the deadlines 322 above for stabilization and the schedule the Contractor will follow for 323 initiating and completing initial stabilization and as agreed to by the 324 Engineer. 325 326 Follow the applicable requirements of the specifications and special provisions including Section 619 Planting and Section 641 Hydro-Mulch 327 328 Seeding. 329 330 Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or 331 planted area, select, design, and install non-vegetative erosion controls that 332 provide cover (e.g., mulch, rolled erosion control products) to the area while 333 334 vegetation is becoming established. 335 336 Protect exposed or disturbed surface area with mulches, grass seeds 337 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 338 339 of 125 pounds per acre. For hydromulch, use the ingredients and rates required for mulches and grass seeds. Submit recommendations from a 340 licensed Landscape Architect when deviating from the application rates 341 342 above. 343 344 Apply fertilizer to mulches, grass seed or hydromulch per 345 manufacturer's recommendations. Submit recommendations from a licensed 346 Landscape Architect when deviating from the manufacturer's 347 recommendations. 348 349 Install velocity dissipation measures when exposing erodible surfaces 350 greater than 15 feet in height. 351 BMP measures shall be in place and operational at the end of work 352 353 day or as required by Section 209.03(B) Construction Requirements. 354 Install and maintain either or both stabilized construction entrances 355 356 and wheel washes to minimize tracking of dirt and mud onto roadways. 357 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 358 the same day in which the track-out occurs. Modify stabilized construction 359 entrances to prevent mud from being tracked onto road. Stabilize entire 360

361 362 363 364		icals n	cessary. nay be used as soil stabilizers for either or both erosion acceptable to the Engineer.
365 366 367 368	runoff from c	uts and	porary slope drains of rigid or flexible conduits to carry dembankments. Provide portable flume at the entrance. Emporary slope drains to ensure proper function.
369 370 371			es, channels, and other drainageways leading away from imes by either:
372 373	<b>(1)</b> immed	Hydro diate a	p-mulching the lower region of embankments in the rea.
374 375 276	(2)	Instal	ling check dams and siltation control devices.
376 377 278	(3)	Other	methods acceptable to the Engineer.
378 379 380 381			controlled discharge of waters impounded, directed, or ct activities or erosion control measures.
382 383 384	similar devic	e whe	sed surface of materials completely with tarpaulin or en transporting aggregate, soil, excavated material or e source of fugitive dust.
385 386 387 388	Clean Contractor.	up an	d remove any pollutant that can be attributed to the
389 390 391 392 393 394 395	Contractor's been allowed that replaces performing.	means d for in s an a Modific	odify Site-Specific BMP measures due to change in the s and methods, or for omitted condition that should have the accepted Site-Specific BMP or a Site-Specific BMP accepted Site-Specific BMP that is not satisfactorily cations to Site-Specific BMP measures shall be accepted gineer prior to implementation.
395 396 397	Prope	rly ma	intain all Site-Specific BMP measures.
398 399	For pr	ojects	with an NPDES Permit for Construction Activities:
400 401 402		ed wat	onstruction areas discharging into nutrient or sediment ters, inspect, prepare a written report, and make repairs to res at the following intervals:
403 404 405		(a)	Weekly.
405 406		(b)	Within 24 hours of any rainfall of 0.25 inch or greater

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

453 pollution prevention control or a significant repair is needed, complete 454 installation or repair no later than seven calendar days from the time of notification/Contractor discovery. Notify the Engineer and document why it is 455 456 infeasible to complete the installation or repair within seven calendar days and complete the work as soon as practicable and as agreed to by the 457 Address Site-Specific BMP deficiencies discovered by the 458 Engineer. Contractor within the timeframe above. The Contractor's failure to 459 satisfactorily address these Site-Specific BMP deficiencies, the Engineer 460 reserves the right to employ outside assistance or use the Engineer's own 461 462 labor forces to provide necessary corrective measures. The Engineer will 463 charge the Contractor such incurred costs plus any associated project engineering costs. The Engineer will make appropriate deductions from the 464 Contractor's monthly progress estimate. Failure to apply Site-Specific BMP 465 measures may result in one or more of the following: assessment of 466 liquidated damages, suspension, or cancellation of Contract with the 467 Contractor being fully responsible for all additional costs incurred by the 468 469 State. 470

- 471 (C) Discharges of Storm Water Associated with Construction
  472 Activities. If work includes disturbance of one acre or more, an NPDES
  473 Permit authorizing Discharges of Storm Water Associated with Construction
  474 Activity (CWB-NOI Form C) or Individual Permit authorizing storm water
  475 discharges associated with construction activity is required from the
  476 Department of Health Clean Water Branch (DOH-CWB).
- 478 Do not begin construction activities until all required conditions of the
  479 permit are met and submittals detailed in Subsection 209.03(A)(2) Water
  480 Pollution, Dust, and Erosion Control Submittals are completed and accepted
  481 in writing by the Engineer.
  482
- (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.
- 488
  489 Do not begin hydrotesting activities until the DOH-CWB has issued an
  490 Individual NPDES Permit or Notice of General Permit Coverage (NGPC).
  491 Conduct Hydrotesting operations in accordance with the conditions of the
  492 permit or NGPC.
- 494 (E) Discharges Associated with Dewatering Activities. If dewatering
   495 activities require effluent discharge into State waters or drainage systems, an
   496 NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit
   497 authorizing discharges associated with dewatering from DOH-CWB is
   498 required from the DOH-CWB.

493

- 500 Do not begin dewatering activities until the DOH-CWB has issued an 501 Individual NPDES Permit or Notice of General Permit Coverage (NGPC). 502 Conduct dewatering operations in accordance with the conditions of the 503 permit or NGPC.
- 504

505(F) Solid Waste.Submit the Solid Waste Disclosure Form for506Construction Sites to the Engineer within 21 calendar days of date of award.507Provide a copy of all the disposal receipts from the facility permitted by the508Department of Health to receive solid waste to the Engineer monthly. This509should also include documentation from any intermediary facility where solid510waste is handled or processed, or as directed by the Engineer.

- (G) Construction BMP Training. The Contractor's representative
  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.
- (H) Hazardous Materials Mitigation. Follow the requirements of
  Subsection 107.16 Contaminated or Hazardous Items and Material;
  Regulated Items and Materials; Waste. Comply with applicable sections of
  the current HDOT "Construction Best Management Practices Field Manual"
  and SWPPP. Payment under this section shall only apply to existing
  hazardous materials on site for site work.

## 525 **209.04** Measurement.

- (A) Installation, maintenance, monitoring, and removal of BMP will be paid on a lump sum basis. Measurement for payment will not apply.
- (B) The Engineer will only measure additional water pollution, dust and
  erosion control required and requested by the Engineer on a force account
  basis in accordance with Subsection 109.06 Force Account Provisions and
  Compensation.
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535 **(C)** The Engineer will only measure hazardous materials mitigation 536 required and requested by the Engineer on a force account basis in 537 accordance with Subsection 109.06 – Force Account Provisions and 538 Compensation.

539

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

543

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

546 547	Pay Item	Pay Unit
548		,
549	Installation, Maintenance, Monitoring, and Removal of BMP	Lump Sum
550	Additional Water Dollution, Dust, and Exceion Control	
551 552	Additional Water Pollution, Dust, and Erosion Control	Force Account
553	Hazardous Materials Mitigation	Force Account
554	s an a s a s a s a s a s a s a s a s a s	
555	An estimated amount for force account is allocated in pro	-
556	under 'Additional Water Pollution, Dust, and Erosion Control'	
557	Materials Mitigation', but actual amount to be paid will be the	
558	accepted force account records, whether this sum be more or less	
559	amount allocated in proposal schedule. The Engineer will pay for	
560 561	requested by the Engineer that are beyond scope of accepted Site- a force account basis.	Specific BiviP on
562		
563	No progress payment will be authorized until the Engineer a	accents in writing
564	Site-Specific BMP or when the Contractor fails to maintain project si	
565	with accepted BMP.	
566		
567	For all citations or fines received by the Department for r	non-compliance,
568	including compliance with NPDES Permit conditions, the Contracto	r shall reimburse
569	State within 30 calendar days for full amount of outstanding cost St	ate has incurred,
570	or the Engineer will deduct cost from progress payment.	
571		
572	The Engineer will assess liquidated damages up to \$27,500	
573	compliance of each BMP requirement and all other requirements	in this section.
574		

## 575 Appendix A

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577 The following list identifies potential pollutant sources and corresponding 578 BMPs used to mitigate the pollutants. Each BMP is referenced to the

579 corresponding section of the current HDOT Construction Best Management

580 Practices Field Manual or appropriate Supplemental Sheets. The Manual may be

- 581 obtained from the HDOT Statewide Stormwater Management Program Website
- 582 at <u>http://www.stormwaterhawaii.com/resources/contractors-and-consultants/</u>
- under Construction Best Management Practices Field Manual. Supplemental
   BMP sheets are located at
- 585 <u>http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-</u>
- 586 <u>water-pollution-prevention-plan-swppp/</u> under Concrete Curing and Irrigation
- 587 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.

<ul> <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</li> </ul>	Pollutant	Appropriate Site-Specific BMP to be	BMP
<ul> <li>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</li> </ul>	Source	Implemented	Requirements
<ul> <li>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</li> </ul>	Source	<ul> <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-</li> </ul>	Requirements

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements
Soil erosion	Provide Soil Stabilization, Slope Protection,	Soil
from the	Storm Drain Inlet Protection SC-2, Perimeter	Stabilization
disturbed	Controls and Sediment Barriers, Sediment Basins	1. SM-21
	and Detention Ponds, Check Dams SC-9 ,Level	Topsoil
areas	Spreader SC-10, Paving Operations SM-19,	Management
	Construction Road Stabilization EC-1, Controlling	2. EC-5
	Storm Water Flowing Onto and Through the	Seeding and
	Project, Post-Construction BMPs, and Non-	Planting
	Structural BMPs (Employee Training SM-1,	3. EC-6
	Scheduling SM-14, Location of Potential Sources of	Mulching
	Sediment SM-15, Preservation of Existing	4. EC-7
	Vegetation SM-16).	Geotextiles
	• Delineate, and clearly mark off, with flags, tape,	and Mats
	or other similar marking device all natural buffer	
	areas defined in the SWPPP.	Slope
	Preserve native topsoil where practicable.	Protection
	In areas where vegetative stabilization will	1. EC-5
	occur, restrict vehicle/equipment use in areas to	Seeding and
	avoid soil compaction or condition soil to promote	Planting
	vegetative growth.	2. EC-6
	For Storm Drain Inlet Protection, clean, or	Mulching
	remove and replace, the protection measures as	3. EC-7
	sediment accumulates, the filter becomes clogged,	Geotextiles
	and/or performance is compromised.	and Mats
	Where there is evidence of sediment	4. EC-9
	accumulation adjacent to the inlet protection	Slope
	measure, remove the deposited sediment by the	Roughening,
	end of the same day in which it is found or by the	Terracing, and
	end of the following work day if removal by the	Rounding
	same day is not feasible.	5. SC-11
	Sediment basins shall be designed and	Slope Drains
	maintained in accordance with HAR 11-55.	and
	Minimize disturbance on steep slopes (Greater	Subsurface
	than 15% in grade).	Drains
	<ul> <li>If disturbance of steep slopes are unavoidable,</li> </ul>	6. SC-12
	phase disturbances and use stabilization	Top and Toe
	techniques designed for steep grades.	of Slope
	<ul> <li>For temporary drains and swales use velocity</li> </ul>	Diversion
	dissipation devices within and at the outlet to	Ditches and
	minimize erosive flow velocities.	Berms
		SC-2 Storm
		Drain Inlet
		Protection

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
		EC-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 Requirements
Pollutant Source Sediment from soil stockpiles	<ul> <li>Appropriate Site-Specific BMP to be Implemented</li> <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> </ul>	<i>BMP</i> <i>Requirements</i> See Protection of Stockpiles Section SM-4. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
	<ul> <li>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>	
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 Source	Appropriate Site-Specific BMP to be Implemented	BMP 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.</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, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20 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, Material Use Section SM-3, Hazardous Waste Management Section SM-9, Waste Management, Spill Preventior 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
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 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 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>	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 </li></ul>	

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
Conoroto	Avaid average requires of a uning compounds	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	Direct all washwater into a leak-proof	See Material
Water	<ul> <li>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>	Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9

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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.
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**END OF SECTION 209**