



MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
Darrell B. Mobley, Acting Secretary • Ralign T. Wells, Administrator

TO: All Planholders

FROM: Maryland Transit Administration

SUBJECT: **ADDENDUM NO. 1**
Contract No.: T-1035-0140
Dunkirk Park & Ride Facility

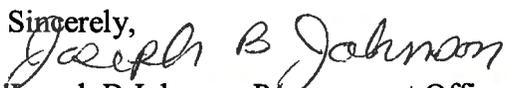
DATE: November 14, 2012

Enclosed and effective this date is Addendum No. 1 to the subject Contract. This change (does) extend the Bid Opening Date of November 20, 2012 to November 28, 2012.

This addendum answers questions submitted by vendors. Also, in response associated to some of the vendor's questions some specifications have been revised. A list of the changes made to this contract is attached to this Addendum.

The Bidder shall acknowledge receipt of this Addendum by completing and returning this form with the bid package.

All other terms and conditions remain unchanged.

Sincerely,

Joseph B Johnson, Procurement Officer
Professional Services/Construction/Installation Section
Procurement Division

Acknowledgement of receipt of ADDENDUM # 1 to Solicitation #T-1035-0140

Vendor Name: _____

Authorized Representative's Signature

Date

T-1035-0140

Addendum No.1

ADDENDUM NO.: 1
DATE: 11/14/12
CONTRACT NO.: T-1035-0140

The following additions, deletions, and modifications are hereby made a part of the Contract Documents of Dunkirk Park & Ride Facility, Contract No.: T-1035-0140.

Item No.	Page	Modification
I. QUESTIONS & ANSWERS		
1		See Attachment
II. BID FORM		
	Bid Form	Revised to delete items, add items, and change Item Numbers See Attachment
II. CONTRACT SPECIFICATIONS		
2	Specifications	Revised Sections 01550, 02376, 02630, 02650 See Attachment
III. APPENDIX		
3	Appendix	Added MDE Stormwater Management and Erosion & Sediment Control approval letter, dated September 24, 2012 Added MDE NPDES Discharge Permit, dated October 2, 2012 See Attachment

Dunkirk Park and Ride Addendum 1

Specifications:

Table of Contents – No Changes

Bid Form – Revised to delete items, add items, and change Item Numbers

Specs. – Revised Section 01550, Section 02376, Section 02630, Section 02650

Appendix – Added MDE Stormwater Management and Erosion & Sediment Control approval letter, dated September 24, 2012

Added MDE NPDES Discharge Permit, dated October 2, 2012

Plans:

There are no plan changes.

Questions raised by bidders:

1. Line item 108 of the bid form calls for 'Moraine' sweetgum @ 2" caliper, but the plan calls for only the straight species (*Liquidambar styraciflua*) @ 2.5" caliper. Which are correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 107).

2. Line item 111 of the bid form calls for DwarfFothergilla@ 18" height, but the plan calls for them to be 24" height. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 110).

3. Line item 114 of the bid form calls for Tulip Poplar to be B&B, but the plan calls for containers. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 113).

4. Line item 115 of the bid form calls for Red Maple @ 2" caliper, but the plan calls for 2.5" caliper. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 114).

5. Line item 118 of the bid form calls for White Oak to be 2" caliper, but the plan calls for 2.5" caliper. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 117).

6. Line item 119 of the bid form calls for Willow Oak to be 2" caliper, but the plan calls for 2.5" caliper. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 118).

7. Line item 120 of the bid form calls for Dogwood to be B&B, but the plan calls for containers. Which is correct?

Dunkirk Park and Ride
Addendum 1

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 119).

8. Line item 121 of the bid form calls for Eastern Red Cedar to be B&B, but the plan calls for containers. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 120).

9. Line item 122 of the bid form calls for Dwarfinkberry to be B&B, but the plan calls for containers. Which is correct?

Response: The Plan is correct; a revised Bid Form will be distributed with Addendum No. 1 (this is now Item 121).

10. Upon review of the pay items for the project I have the following; what item will cover the Miscellaneous SWM items such as the Recharge facility in SWM facility # 1, Low Flow Dewater Devices, Orifice Plates, SWM Manhole, Projection collars, Weir Walls, & SWM Valve? Please clarify.

Response: A new pay item, Item 058, has been established for the Facility Recharge, which will include all stone, rip rap, weir wall, etc. necessary to complete the recharge facility. A new pay item, Item 057, has also been established for the SWM Manhole, which will include all items for the outlet of SWM #1, including: the manhole, low flow dewatering devices, orifice plates, projection collars, valves, and piping. These new items will be included with Addendum No. 1.

11. As it pertains to the items covered in the Specifications section 02376, (Step Pool/Outfall Channels, Riffle Grade Control, Toe Boulder Slope Protection) please provide a source of supply for the specialized Stone that is require for these items? These are not typical aggregate items and are not readily available. In addition please provide a source of supply for the Natural Fiber Matting, & Live stakes.

Response: Determining the source of supply is the responsibility of the Contractor.

12. Please clarify the value & payment for Bid Item 3 – QA/QC. Section 01450-4.01 describes measurement for payment as dividing the total fixed value of \$54,100 by the contract calendar days of 365, which calculates to \$148.22 per day. Please confirm our understanding of this calculation is correct. Also, we anticipate costs to procure full-time QA/QC services described in Section 01450 will exceed this daily allowance value. Would you consider changing this item to a lump sum or unit price bid per day for the contractor to specify the bid value (versus a fixed allowance)?

Response: No, this is how MTA pays for this item.

13. Section 01525 referenced for Bid Item 6 – Engineers Survey Equipment was not included in the bid documents. Would you provide this section?

Response: Item 6 – Engineers Survey Equipment is not required and will be deleted.

14. Do we have to include the Miscellaneous Work Allowance (\$541,000.00) and the Quality Assurance and Quality Control (\$54,100) towards our 30% MBE participation?

Response: Please assume that 30% of the Miscellaneous Work Allowance must include MBE participation.

15. Is there a current plan holders list we can see?

Response: Plan holders list will be provided upon request

16. There does not appear to be a pay item for the Box Culvert. Will the Box Culvert and Wing Walls be paid under the bid item 142 Cast-In-Place Concrete – Mix 3? Please clarify.

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Response: The Box Culvert and Wing Walls will be paid for under Item 141 – Cast-in-Place Concrete (previously Item 142).

17. Please confirm the box culvert, headwalls, and pond weir walls paid under Bid Item 142. If not please clarify the activities to be included under Bid Item 142 and identify which bid item(s) include the box culvert, headwalls and pond weir walls.

Response: The Box Culvert and Wing Walls will be paid for under Item 141 – Cast—in-Place Concrete (previously Item 142). See response to Question #10 for weir wall associated with SWM #1. The weir walls associated with SWM #2 and SWM #3 are to be paid for under Items 059 (previously Item 060) and 060 (previously Item 061), respectively.

18. Profile on Plan S-01 shows the end section of the box culvert to be cast-in-place concrete for +/- 20 LF from each headwall. Is it acceptable to precast these box culvert sections?

Response: These sections may be cast-in-place or precast.

19. Section A-A on Plan S-03 shows soil fill inside the box culvert. Please advise what is required at this location and under which bid item cost should be included.

Response: The soil line represents natural sediment deposits anticipated to take place over time within the box culvert; the contractor is not expected to place this soil.

20. Under which bid item are we to include cost for Storm Water Manhole SWM-2 (at SWM Facility 1; ref: Plans C22 & C26)?

Response: See response to Question #10.

21. Will an alternate for Soil Cemented Treated Base be accepted in lieu of Graded Aggregate Base? If so, how will we bid this alternate?

Response: Bids shall be based on the pavement section as specified.

22. Are the crest stones and foundation stones incidental to the Step Pool/Outfall Channel line items or are they to be paid for under the Toe Boulder Slope Protection item?

Response: The crest stone and foundation stones are to be paid for under the Step Pool/Outfall Channel line items; this will be clarified in Section 02376 included with Addendum No. 1.

23. Which item are the box culvert and the headwalls being paid under?

Response: see response to Question #16.

24. Which item are the 3 SWM Concrete Weir Walls being paid under?

Response: see response to Question #17.

25. Bid Item 060 and 061 (Sand Filter SWM Facility 2 & 3) according the specification section 02650-4 Part 4 it is stated that the under drain pipe is incidental to the construction of the SWM facility. However there are 2 pay items for under drain (bid Item # 045, 046) please clarify which item the under drain will be paid under?

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Response: The under drain is to be incidental to the SWM facility; Items for under drain and under drain outlets (previously Items 045 and 046, respectively) have been deleted.

26. Bid item 006 if for Engineer's Survey Equipment, there is not a specification section for this item or a description. Typically the contractor provides there own Survey and Layout is this the case on this project? If so is this the item it will be paid under?

Response: The item for Engineers Survey Equipment has been deleted. Construction Layout will be paid per Section 01130-4.03.

27. Bid item 010 if for Barricades for Maintenance of Traffic, however under the specification section it does not specify what kind of barrier is to be used? Typically it would be precast concrete please clarify?

Response: The barricades shall be Precast Temporary 32 Inch F Shape Concrete Traffic Barrier; this will be clarified in Section 01550 included with Addendum No. 1 (note this is now Item 009).

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
001	01130	Mobilization	1	LS	\$432,500	\$432,500
002	01210	Miscellaneous Work Allowance	Allowance		\$541,000	\$541,000
003	01450	Quality Assurance and Quality Control	Allowance		\$54,100	\$54,100
004	01500	Orange Plastic Safety Fence	770	LF		
005	01522	Engineer's Field Office, Type 2	1	LS		
006	01550	Maintenance of Traffic	1	LS		
007	01550	Temporary Traffic Signs	250	SF		
008	01550	Traffic Drums	60	EA		
009	01550	Barricades for Maintenance of Traffic	1500	LF		
010	01550	Arrow Panels	200	UD		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
011	02230	Site Clearing	1	LS		
012	02315	Class 1 Excavation	101989	CY		
013	02315	Class 1-A Excavation	5000	CY		
014	02315	Class 3 Excavation	425	CY		
015	02315	Class 5 Excavation	15	CY		
016	02315	Select Borrow	5000	CY		
017	02317	Test Pit Excavation	20	CY		
018	02320	Furnished Subsoil	261	CY		
019	02370	Stabilized Construction Entrance	64	TON		
020	02370	Erosion and Sediment Control Original Excavation	1200	CY		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
021	02370	Erosion and Sediment Control Cleanout Excavation	408	CY		
022	02370	Portable Sediment Tank	4	EA		
023	02370	Earth Dike, Type A-2	359	LF		
024	02370	Temporary Swale	565	LF		
025	02370	Riprap Inflow Protection	11	TON		
026	02370	Silt Fence	2106	LF		
027	02370	Super Silt Fence	872	LF		
028	02370	Temporary Stone Outlet Structure	20	TON		
029	02370	Stone for Sediment Control - 2 Inch to 3 Inch Stone	140	TON		
030	02370	Stone for Sediment Control - 4 Inch to 7 Inch Stone	50	TON		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
031	02370	Stone for Sediment Control - No. 57 Stone	93	TON		
032	02370	Culvert Pipe with Access Road	1	LS		
033	02370	Pump-Around	2	EA		
034	02370	Temporary Seeding	716	LB		
035	02372	Soil Stabilization Matting	600	SY		
036	02375	Riprap	130	SY		
037	02375	Cutoff Wall for Class 1 Riprap	22	LF		
038	02376	Step Pool/Outfall Channel - SWMF#1	1	LS		
039	02376	Step Pool/Outfall Channel - SWMF#2	1	LS		
040	02376	Step Pool/Outfall Channel - SWMF#3	1	LS		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
041	02376	Riffle Grade Control	3	EA		
042	02376	Streambank Stabilization	1	LS		
043	02376	Toe Boulder Slope Protection	10	EA		
044	02630	Reinforced Concrete Pipe, Class IV- 24 Inch	456	LF		
045	02630	Reinforced Concrete Pipe, Class IV - 18 Inch	1577	LF		
046	02630	Concrete End Section - 24 Inch	3	EA		
047	02630	Inlet - Standard 5 FT COG - Minimum Depth	2	EA		
048	02630	Inlet - Standard 10 FT COG - Minimum Depth	13	EA		
049	02630	Inlet - Standard 10 FT COS - Minimum Depth	2	EA		
050	02630	Inlet - Standard 15 FT COG - Minimum Depth	9	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
051	02630	Inlet - Standard COG - Vertical Depth	12	LF		
052	02630	Inlet - Standard 20 FT COS - Minimum Depth	2	EA		
053	02630	Inlet - Standard COS - Vertical Depth	14	LF		
054	02630	Inlet - Standard Type S, Double Grate Tandem - Minimum Depth	1	EA		
055	02630	Manhole - 48 Inch Diameter for 12 to 24 Inch Pipes - Minimum Depth	1	EA		
056	02630	Manhole - 48 Inch Diameter - Vertical Depth	10	LF		
057	02630	Stormwater Manhole	1	EA		
058	02650	Facility Recharge – SWM #1	1	LS		
059	02650	Sand Filter Facility – SWM#2	1	LS		
060	02650	Sand Filter Facility – SWM#3	1	LS		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
061	02651	Access Road Cellular Confinement Load Support System	1685	SY		
062	02655	Clay Liner for Stormwater Management Facility	760	CY		
063	02660	Stormwater Management Facility As-Built Certification – Pond #1	1	LS		
064	02660	Stormwater Management Facility As-Built Certification – Pond #2	1	LS		
065	02660	Stormwater Management Facility As-Built Certification – Pond #3	1	LS		
066	02720	Aggregate Base Course - 4 Inch	20475	SY		
067	02720	Aggregate Base Course - 6 Inch	25649	SY		
068	02720	Hot Mix Asphalt Superpave 12.5 MM for Surface, PG 76-22, Level 4	2155	TON		
069	02720	Hot Mix Asphalt Superpave 19.00 MM for Base, PG 64-22, Level 3	2478	TON		
070	02750	Reinforced Concrete Pavement - 9 Inch, Mix #7	3396	SY		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
071	02750	Plain Portland Cement Concrete Pavement - 9 Inch, Mix #7	110	SY		
072	02765	4 Inch White Pavement Marking Paint Lines	9000	LF		
073	02765	4 Inch Yellow Pavement Marking Paint Lines	1000	LF		
074	02765	5 Inch Yellow Lead Free Reflective Thermoplastic Pavement Markings	20	LF		
075	02765	10 Inch Yellow Lead Free Reflective Thermoplastic Pavement Markings	210	LF		
076	02765	12 Inch White Pavement Marking Lines	1800	LF		
077	02765	18 Inch White Pavement Marking Lines	50	LF		
078	02765	24 Inch White Preformed Thermoplastic Pavement Marking Line	70	LF		
079	02765	Pavement Marking Arrow	6	EA		
080	02765	Handicap Pavement Marking Paint Symbol	10	EA	075	

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
081	02769	Detectable Warning Surface	592	SF		
082	02770	Standard 8 Inch Combination Curb and Gutter	9162	LF		
083	02770	Standard Type A Combination Curb & Gutter, 12 Inch Gutter Pan, 10 Inch Depth	245	LF		
084	02770	Modified Combination Curb & Gutter	125	LF		
085	02770	Freestanding Curb	250	LF		
086	02770	Monolithic Concrete Median, 4'-0" Wide, Type A-1	5	LF		
087	02775	Concrete Sidewalk, 4 Inch Depth	10145	SF		
088	02775	Concrete Sidewalk, 5 Inch Depth	540	SF		
089	02820	Chain Link Fence - 6 Foot Galvanized	2275	LF		
090	02820	Terminal Post - 6 Foot Galvanized Chain Link Fence	4	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
091	02875	Bus Shelter	4	EA		
092	02890	Extruded Aluminum Sign	325	SF		
093	02890	Sheet Aluminum Sign	215	SF		
094	02890	Breakaway Wood Sign Support 4 Inch x 4 Inch	440	LF		
095	02890	Breakaway Wood Sign Support 4 Inch x 6 Inch	70	LF		
096	02890	W6x9 Breakaway Steel Support	75	LF		
097	02890	Breakaway Base Support System for Steel Beam Sign Post	6	EA		
098	02890	Concrete for Sign Supports	8	CY		
099	02890	Bollards	10	EA		
100	02890	Relocate Existing Ground Mounted Signs	20	SF		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
101	02920	Furnishing & Placing Topsoil	33325	SY		
102	02920	Seeding and Mulching	33325	SY		
103	02920	Mowing	2	EA		
104	02920	Overseeding	750	LB		
105	02920	Refertilizing	2400	LB		
106	02920	Additional Watering of Seeded and Mulched Areas and Sodded Areas	5	MG		
107	02930	Liquidambar Styraciflua (Sweet Gum) 2 Inch Cal. B&B	19	EA		
108	02930	Lindera Benzoin (Spicebush) 2 Foot Height Cg	554	EA		
109	02930	Aronia Arbutifolia (Red Chokeberry) 2 Foot Height Cg	107	EA		
110	02930	Fothergilla Gardenii (Dwarf Fothergilla) 18inch Height Cg	214	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
111	02930	Liriope Muscari (Big Blue) 1 Quart	22379	EA		
112	02930	Platanus Occidentalis (Sycamore) 2-1/2 Inch Cal B&B	9	EA		
113	02930	Liriodendron Tulipifera (Tulip Poplar) 5-Foot Height Container	126	EA		
114	02930	Acer Rubrum (Red Maple) 2-1/2 Inch Cal. B&B	26	EA		
115	02930	Nyssa Sylvatica (Black Gum) 5 Foot Height B&B or CG	60	EA		
116	02930	Quercus Alba (White Oak) 5 Foot Height B&B	126	EA		
117	02930	Quercus Alba (White Oak) 2-1/2 Inch Cal B&B	14	EA		
118	02930	Quercus Phellos (Willow Oak) 2-1/2 Inch Cal. B&B	27	EA		
119	02930	Cornus Florida (Dogwood) 5 Foot Height Container	126	EA		
120	02930	Juniperus Virginiana (Eastern Redcedar) 3 Foot Height Container	126	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
121	02930	Ilex Glabra Compacta (Dwarf Inkberry) 2 Foot Height Container	77	EA		
122	02930	Juniperus Horizontalis (Creeping Juniper) 24 Inch Spread Container	72	EA		
123	02930	Vaccinium Corymbosum (Highbush Blueberry) 2 Foot Height Container	175	EA		
124	02930	Viburnum Dentatum (Arrowwood) 2 Foot Height 2 Gallon Container	74	EA		
125	02930	Acer Rubrum (Red Maple) 5 Foot Height B&B Or Cg	126	EA		
126	02930	Liquidambar Styraciflua (Sweetgum) 5 Foot Height Container	60	EA		
127	02930	Juncus Effusus (Soft Rush) Quart 12-Inch Oc	673	EA		
128	02930	Carex Stricta (Tussock Sedge) Quart 12-Inch Oc	898	EA		
129	02930	Acorus Calamus (Sweet Flag) Quart 12-Inch Oc	673	EA		
130	02930	Salix Nigra (Black Willow) 3-Foot Live Stake 2 Foot Oc	248	EA		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
131	02930	Comus Sericea (Rodosier Dogwood) 3 Foot Live Stake 2 Foot Oc	248	EA		
132	02930	Viburnum Dentatum (Arrowwood) 3 Foot Live Stake	248	EA		
133	02930	Mulching, 3 Inch Depth	5000	SY		
134	02930	Watering	15	MG		
135	02935	Root Pruning	325	LF		
136	02935	Protective Fencing	2,100	LF		
137	02935	Tree Mulching	2,696	SY		
138	02935	Tree Pruning	1,000	CAL		
139	02935	Tree Fertilizing	845	GAL		
140	02935	Tree Watering	5,000	GAL		

Item	Section	Description	Estimate of Quantity	Unit	Unit Price	Total Price
141	03300	Cast-In-Place Concrete – Mix 3	155	CY		
142	05585	W-Beam Traffic Barrier	1,260	LF		
143	16131	4 Inch Schedule 40 PVC Conduit - Trenched	420	LF		
144	16131	2-1/2 Inch Schedule 40 PVC Conduit - Trenched	4700	LF		

Basis of Award: Total amount of items 001 thru 145 (figures)

(words)

145		Insurance Premium (Contingency)	LS	LS	LS	
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This amount will only be added to the base bid in the event that the bidder is excluded from the wrap-up insurance program or the program is terminated mid-term. The Insurance Premium Worksheet must be attached to the bid.

SECTION 01550
MAINTAINANCE OF TRAFFIC
PART 1: GENERAL

1.01 DESCRIPTION:

This Section specifies general requirements for maintaining pedestrian and/or vehicular traffic.

PART 2: PRODUCTS

2.01 MATERIALS

- A. SHA Std. Spec. SECTION 104.07 104.08, 104.11, 104.12, 104.13 and 104.17 shall apply, except as noted below.
- B. SHA Std. No. MD-104.03-04 and MD-104.03-06. (See Plans).
- C. Paint materials for temporary pavement markings shall conform to the State Highway Administration's approved list.

PART 3: EXECUTION

3.01 MAINTENANCE OF TRAFFIC:

The Contractor shall maintain, furnish, install, and remove when no longer required, all traffic control and protective devices required on the approved traffic plan. Traffic control and protective devices shall include traffic drums, temporary signs; flashing lights; barricades; and arrow panels.

- A. Traffic Plan: The Contract Drawings include a plan for maintaining traffic on Town Center Boulevard during construction. The Contractor shall contact the Calvert County Department of Public Works at least two (2) weeks before construction begins.
- B. Coordination:
 - 1. The maintenance of traffic (MOT) plan for this project is comprised of one MOT set-up (See MOT-1).
 - 2. For Calvert County involvement, contact:
Mr. Terry Carlson
Calvert County
Department of Public Works
150 Main Street, Suite 202
Prince Frederick, MD 20678
(410) 535-2204
 - 3. The Engineer shall receive a copy of all third party notifications.
- C. Temporary Traffic Signs:

1. Contractor shall maintain sign faces free of tape, tape residue, or any other foreign matter, and shall remove any advertisements from signs and supports. Supplemental signs shall not cover any part of the face of the primary sign. Weeds, shrubs, trees, construction equipment, materials, personal vehicles, or any other obstruction shall not obscure signs.
2. All temporary signing shall conform to SECTION 6B of the Manual of Uniform Traffic Control Devices (MUTCD). All temporary signing shall be 36" x 36" unless otherwise specified and shall be reflectorized. Signs shall be mounted on two 4' x 4' poles at a minimum height of 7 feet from existing ground line to the bottom of the sign. The tops of the wood posts shall not protrude more than 3" beyond the nearest edge of the sign. Wood posts shall be placed a minimum of 4' into the ground for 4" x 4" wood posts. Additional bracing of signs is prohibited.
3. Signs mounted on portable supports for temporary conditions shall be mounted so the bottom of the signs shall not be less than 1 foot above the roadway pavement elevation. Higher mountings are desirable. Portable sign supports shall be self-erecting, able to withstand a wind velocity of 70 mph and shall be able to maintain themselves within five degrees rotation around their vertical axis.
4. Temporary traffic signs shall not be installed or displayed until inspected and approved by the Engineer. Signs shall be properly maintained, remain in place only as needed, and be immediately removed thereafter. When a sign is not indicative of actual conditions such as during periods of partial shut down or extended periods of no work being performed, the Contractor shall remove the sign, turn it away from traffic, or completely cover it with an opaque material that is approved by the Engineer.
5. Project identification and information sign(s) supplied by the Engineer shall be returned to the Engineer; temporary signing and all associated hardware, fittings, posts, brackets and incidentals shall be removed from the project when no longer needed and become the property of the Contractor.

D. Traffic Drums

1. The Contractor shall furnish and place as warning or channelizing devices to control or maintain traffic. The drums shall be located as specified in the Contract Documents or as directed by the Engineer.
2. Drums shall be manufactured of low-density polyethylene (PE) to withstand impact without damage to themselves or vehicles. The drum shall be 36" in height and a minimum of 18" in diameter. The reflective stripes shall be horizontal, circumferential, orange

and white, 6" wide, two each of white and orange alternating with the top stripe being orange. Drums may have one or more flat sides as long as the minimum 18" diameter is satisfied.

3. Drums shall be adequately weighted with bags of sand to keep them from moving. These bags, with no other attachments, shall rest on the base of the drum. The drums shall be maintained in like-new condition.

E. Barricades for maintenance of traffic:

The Contractor shall furnish, place, and remove barricades for use at locations as directed by the Engineer. Barricades shall be Precast Temporary 32 Inch F Shape Concrete Traffic Barrier.

F. Arrow Panels:

The Contractor shall furnish, place, and remove arrow panels for use at location specified in the Contract Documents or as directed by the Engineer. Self-contained trailer units shall be used unless otherwise specified in the Contract Documents.

G. Temporary Closing:

Prior to temporary closing to traffic part of any street, sidewalk or other access or to changing traffic patterns from those indicated on the Contract Drawings, the Contractor shall obtain approval from the appropriate jurisdictional agency, at least two weeks before such closures or changes are made. Deviations will be for emergency conditions affecting life and property only and the Contractor shall immediately notify the Engineer and the appropriate jurisdictional agency of any such emergency changes. Copies of all approvals shall be furnished to the Engineer. The Contractor may develop his own maintenance of traffic plans for review and approval by the Engineer. The Contractor's traffic plans shall be submitted in writing to the Engineer 21 days prior to commencing any work.

H. Contractor Surface Operations:

The Contractor shall schedule his surface operations to not be working intermittently throughout the area. Excavation or construction activities shall be scheduled and pursued to completion as required to permit opening of the street areas to traffic without unnecessary delays.

I. Temporary Walkways:

In areas where removal of existing sidewalks is necessary, access to adjacent businesses, entrances and properties shall be maintained by temporary walkways having a width of not less than four feet.

PART 4: MEASUREMENT AND PAYMENT**4.01 MAINTENANCE OF TRAFFIC:**

- A. Maintenance of Traffic will be measured as the percentage of total Contract Progress.
- B. Maintenance of Traffic will be paid for at the percentage of total Contract progress multiplied by the lump sum price for maintenance of traffic in the unit price schedule. The payment will be full compensation for relocating, turning, completely covering and uncovering or removing and resetting, maintaining in like new condition and cleaning all existing and temporary traffic signs, and any other traffic control device. Also included is the inventory of all existing pavement markings and the treatment of any other traffic control device not included in these Specifications but are necessary for the fulfillment of the Contract requirements and implementation of the approved Traffic Control Plan, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.
 - (a) When additional Contract pay items for Maintenance of Traffic are specified in the Contract Documents, measurement and payment will conform to the pertinent pay items included in the Contract Documents.
 - (b) Cones, reflective collars, anchoring devices, STOP/SLOW paddles, sign flags, and warning lights will not be measured by the cost will be incidental to the Contract price for Maintenance of Traffic unless otherwise specified in the Contract Documents.
 - (c) Temporary traffic control devices, which in Engineer's opinion need replacement, shall be replaced immediately by the Contractor. The cost to replace traffic control devices, including all material, labor, equipment and tools, will not be measured but will be incidental to the Contract price for Maintenance of Traffic except when specifically set up in the Contract Documents as a separate Contract pay item.

4.02 TEMPORARY TRAFFIC SIGNS:

- A. Temporary traffic signs will be measured per square foot.
- B. Temporary traffic signs will be paid for at the Contract unit price bid, complete in place. This price shall be full compensation for all material, equipment, tools, labor and all work to set up, maintain, and remove when no longer needed.

4.03 TRAFFIC DRUMS:

- A. Traffic drums will be measured per each.
- B. Traffic drums will be paid for at the Contract unit price bid, complete in place. This price shall be full compensation for all material, equipment,

tools, labor and all work to set up, maintain, and remove when no longer needed. The resetting, and/or replacing of the same traffic drums due to the Contractor's operations or accident damage, etc., will only be paid for once, regardless of the number of times the Contractor has to reset or replace the drums.

4.04 BARRICADES FOR MAINTENANCE OF TRAFFIC:

- A. Barricades for maintenance of traffic will be measured per linear foot.
- B. Barricades for maintenance of traffic will be paid for at the Contract unit price bid, complete in place. This price shall be full compensation for all material, equipment, tools, labor and all work to set up, maintain, remove and reset, and remove when no longer needed.

4.05 ARROW PANELS:

- A. Arrow Panels will be measured per unit day. A unit day shall consist of any approved usage within a 24-hour calendar day period.
- B. Arrow Panels will be paid for at the Contract unit price bid, complete in place. This price shall be full compensation for all material, equipment, tools, and labor required to complete this work.

END OF SECTION

SECTION 02376
CHANNEL STABILIZATION

PART 1: GENERAL

1.02 DESCRIPTION:

- D. This work is the installation of channel protection and stabilization measures, including Step Pool Outfall Channels, Riffle Grade Controls, Streambank Stabilization, and Toe Boulder Slope Protection as indicated in the Contract Documents or as directed by the Engineer.

PART 2: PRODUCTS

2.01 MATERIALS:

A. Step Pool/Outfall Channels

- 1. Crest Stones and Foundation Stones.** Crest Stones and Foundation Stones shall consist of native materials that are angular and flat in shape to allow the stones to be stacked in a locking fashion.

The intermediate axis of the Crest Stones and Foundation Stones shall measure between 24 inches and 36 inches and consist of the size characteristics listed in the table below. In general, the short axis shall not be more than one-third (1/3) less than the intermediate axis and the long axis shall not be more than one-third (1/3) greater than the intermediate axis. In addition, the short axis shall be greater than one-third (1/3) the size of the long axis. Reasonable visual tolerances as defined the Engineer will apply to the values listed in the table below.

Rock Size Range	Rock Diameter (inches)		
	Short Axis	Intermediate Axis	Long Axis
Minimum	16	24	32
Maximum	28	36	48

Crest Stones and Foundation Stones shall be hard, durable, stackable, and free from overburden, spoil, shale, slate, and organic material. They shall be of a quality that will resist disintegration from exposure to water or weathering. Specific gravity shall be at least 2.5.

Stone shall be natural in appearance and dark brown or dark gray in color.

The Contractor shall provide a sample of the Crest Stones and Foundation Stones to the Engineer for review and approval two (2) weeks prior to intended use. The Engineer will accept the remaining stone by visual inspection at the point of usage before being placed. Reasonable visual tolerances as defined by the Engineer will apply. The Contractor shall obtain from the quarry and submit a certificate indicating the following:

1. Rock Classification.
2. Specific gravity of rock.
3. That sizes stipulated in Specifications are being supplied to site, and source(s) of stone shall be indicated.

Materials salvaged from the project site may be used with the approval of the Engineer if sufficiently similar to these specifications. It is the Contractor's sole responsibility to determine if sufficient quantity of Crest Stones and Foundation Stones will be available and to furnish additional materials as needed.

2. **Pool material.** Pool Material shall have various sizes from two (2) inches to twelve (12) inches, with naturally appearing coloration placed to a depth of approximately two (2) feet. Material shall be approved by the inspector-in-charge prior to use and shall be free from roots, debris, rubble, silt, clay, and other organic material.
3. **Sand.** Section 02650.
4. **Geotextile.** Section 02650, Class 'C' Geotextile.
5. **Natural Fiber Matting.** Section 02676.C.1.

B. Riffle Grade Controls

1. **Riffle Grade Control Material.** The channel bed layer material for the riffle grade control structures shall consist of material that conforms to the specifications presented in the following table:

% less than	Size (inches)
100	18
90	15
50	9
30	3

10	0.5
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The material for the riffle grade control structures shall consist of natural stone that is dark brown, dark gray or reddish-brown in color. Existing channel material meeting the defined criteria shall be salvaged from the channel to be relocated and utilized within the proposed riffle grade control structures prior to obtaining materials offsite. The Contractor shall provide a sample of the channel bed material to the Inspector-in-Charge for review and approval two weeks prior to intended use. Only approved material shall be placed at the site. The Inspector-in-Charge shall accept the remaining stone at the point of usage before being placed. Reasonable tolerances as defined by the Inspector-in-Charge will apply.

The Engineer reserves the right to reject any material brought on site if the material does not meet the specified gradation requirements. The Engineer also reserves the right to require on-site mixing of the materials to eliminate stockpile segregation.

2. **Existing Channel Bed Material.** The material washed into the riffle grade control material shall consist of material salvaged from the existing channel that is to be filled. The material can be found within the limits of the active channel, which is defined as the portion of the channel loca Existing channel bed material. The material washed into the riffle grade control material shall consist of material salvaged from the existing channel that is to be filled. The material can be found within the limits of the active channel, which is defined as the portion of the channel located between the bottom of the bank breaklines in the existing channel. The salvaged stone shall consist of 0.25" to 6" gradation with up to 20% volume of stone less than 0.25". Reasonable tolerances as defined by the engineer will apply to the existing channel bed material size gradation. Existing channel material meeting the defined criteria shall be salvaged from the channel to be relocated and utilized within the proposed riffle grade control structure prior to obtaining materials offsite. Material furnished from off-site will not be permitted unless otherwise approved by the Engineer. Existing channel bed material shall be approved by the inspector-in-charge prior to use and shall be free from roots, debris, rubble, silt, clay, and other organic material.ted between the bottom of the bank breaklines in the existing channel. The salvaged stone shall consist of 0.25" to 6" gradation with up to 20% volume of stone less than 0.25". Reasonable tolerances as defined by the engineer will apply to the existing channel bed material size gradation. Existing channel material meeting the defined criteria shall be salvaged from the channel to be relocated and utilized within the proposed riffle grade control structure prior to

obtaining materials offsite. Material furnished from off-site will not be permitted unless otherwise approved by the Engineer. Existing channel bed material shall be approved by the inspector-in-charge prior to use and shall be free from roots, debris, rubble, silt, clay, and other organic material.

The Engineer reserves the right to reject any material brought on site if the material does not meet the specified gradation requirements. The Engineer also reserves the right to require on-site mixing of the materials to eliminate stockpile segregation.

C. Streambank Stabilization

1. **Natural Fiber Matting.** The Contractor shall furnish the Engineer with a specification and source of the matting for review and approval two (2) weeks prior to intended use. Anchoring devices, including staples and anchor stakes, shall consist of materials indicated on the details, or as recommended by the matting manufacturer and approved by the Engineer. Staples shall consist of No. 8 gauge steel wire, bent u-shaped or square top, with a throat width of one (1) to two (2) inches, with an effective minimum driving depth of eight (8) inches. Anchor stakes shall consist of a minimum twelve (12) inch long, 1"x2" notched hardwood stake.
2. **Live Stakes.** Live stake materials shall be purchased from a nursery specializing in the production of similar materials and shall include confirmation of species. Each live stake shall conform to the range of dimensions shown on the Contract Drawings.

D. Toe Boulder Slope Protection

1. **Toe Boulders.** Stone for Toe Boulder Slope Protection shall be Class III imbricated stone which is predominately square or rectangular in shape with flat faces to facilitate stacking. Typical dimensions for each boulder are 4' L x 3' W x 2' H. Slight variations in size are acceptable, but each stone must weigh a minimum of 1,500 lbs. and have a color which is predominately brown or grey. The Contractor shall supply a sample of all rock to the Engineer for approval prior to delivery.
2. **Geotextile.** Woven geotextile shall be used behind the Toe Boulder Slope Protection. Geotextile shall be in accordance with Section 02650, Class 'C' Geotextile.

PART 3: EXECUTION**3.01 GENERAL REQUIREMENTS:****A. Step Pool/Outfall Channels**

1. The construction of the Step Pools shall conform to the dimensions, grades, and details specified on the Contract Drawings, at the locations shown on the Plans, and as directed by the Engineer.
2. Foundation stones shall be placed at a slight upstream facing angle of about 10 to 30 degrees depending on the rock configuration. The elevation and angle of the foundation stones shall be placed to allow the crest stone to be placed at the proper elevation indicated on the Contract Drawings. The foundation stones shall be placed so that each stone touches the adjacent stone.
3. The crest located at the downstream edge of the step pool outlet protection shall have two (2) rows of crest and foundation stones. The downstream rows of foundation stones shall be placed at a slight upstream facing angle of about 10 to 30 degrees depending on the rock configuration and the upstream row of foundation stones shall be placed flat as shown on the Contract Drawings. The upstream and downstream rows of foundations stones shall be placed to have a minimum of one foot overlap in the cross stream direction.
4. Crest stones shall be placed so they rest upon two-halves in the cross stream direction of each foundation stone and so that the crest stone is offset in the upstream direction. Any exposed areas underneath the crest stones as a result of the crest stone being offset in the upstream direction of the foundation stone shall consist of a minimum of six (6) inches of No. 3 stone. The Contractor shall minimize void space between the crest stones and foundation stones during placement.
5. The crest stones and foundation stones shall be keyed into the stream banks and minimum of four (4) feet.

B. Riffle Grade Controls

1. The stream shall be diverted and the construction area dewatered as shown on the MDE approved erosion and sediment control plans. This may include sandbag diversions or pump around techniques.
2. Working downstream to upstream, excavate a section of the existing stream channel and associated banks to obtain the necessary sub-grade.

Allow room for placement of the existing channel bed material, the riffle grade control material and any associated bank treatments. Limit the total length of work to that which can be completed in a single work day or dry weather period. Excavation for the installation of the riffle grade control shall conform to the dimensions, grades, and details specified in the plans.

3. Install bank stabilization treatments. The subgrade shall be a minimum of 6 inches of Existing Channel Material, to insure proper seating and stability of the Riffle Grade Control material. If the existing material does not meet the composition specified above, the subgrade must be excavated and appropriate material meeting the specification must be installed to a depth of 6 inches prior to installation of the Riffle Grade Control Material. Install Riffle Grade Control Material to specified grade. Beginning from the far bank, work toward the near bank. Existing Channel Material shall be placed to its full course thickness, in a manner such that the underlying material will not be displaced or worked into the course of material being placed.
4. Beginning from the far bank, work towards the thalweg and place the full depth of proposed Riffle Grade Control Material as specified in the Contract Documents. The Contractor shall then complete the placement of all Riffle Grade Control Material to its full depth as illustrated on the Contract Drawings.
5. Riffle Grade Control Material shall be placed in a manner that shingles the stone in a downstream direction and not dumped to achieve final grade. Larger particles must be placed the full depth of the structure with smaller particles placed around the larger particles to promote interlocking and sealing of the structure.
6. The Contractor shall then wash approved Existing Channel Bed Material equaling a minimum 6 inches into the interstitial spaces of the Riffle Grade Control Material until approved as satisfactory by the Engineer. The material shall be washed into the Riffle Grade Control Structure using a method that promotes the transport of the material into the voids and prevents the majority of the material from being washed downstream.
7. Surface elevations, widths, and slopes of the riffle grade control structures shall conform to the design stream profile and cross-sections specified in the Contract Documents.

8. Tailout sections of the feature shall be backfilled with salvaged bed material if this material is determined suitable by the Engineer. This material shall be compacted to match pre-construction conditions.
9. Placed material not conforming to the specified limits shall be removed and replaced as directed by the Engineer at no additional cost to the Administration.

C. Streambank Stabilization

1. Natural Fiber Matting.

- a. Grading, topsoil, and seeding shall be completed before the natural fiber matting is installed. The streambank surface shall be a smooth soil surface free from stones, clods, or debris. The matting shall be placed within 24 hours after seeding operations have been completed. Matting shall be laid smoothly and securely upon the seeded bed in the direction of water flow. Ensure full contact to the matting with the topsoil, and that the matting is free of tears, folds, holes, or other inconsistencies in its final placement. Stretching the matting shall be avoided.
- b. The matting shall be rolled lengthwise along the streambank. The matting shall be secured throughout using staples placed every two (2) feet on center maximum, except as indicated for matting overlap and along the edges of the matting.
- c. Where more than one width of matting is required, the end of each strip shall overlap at least one (1) foot for both the vertical and horizontal overlaps. Overlapping shall be done with the upslope matting overlapping the downslope matting and the upstream matting overlapping the downstream matting. The overlapped matting shall be firmly fastened in place with anchor stakes driven vertically into the soil, and flush with the surface. Anchor stakes shall be placed a maximum of two (2) feet on center along overlapping matting.
- d. The Contractor shall secure the edges of the matting along the slope by excavating a six (6) inch deep trench and securing the edge of the matting within the trench with anchor stakes placed every two (2) feet on center. The trench shall then be backfilled and tamped. The matting shall extend a minimum of one (1) foot beyond the limits of grading at the top of the slope, or to a location along the slope indicated by the Engineer.
- e. Along the bottom of the slope, the matting shall be secured by trenching the matting a minimum of one (1) foot below the channel invert and securing with anchor stakes placed every two (2) feet on center. The trench shall be backfilled with channel bed fill and tamped.

- f. The matting shall be secured along the toe of slope along rock to protection, step pool crest, and step pool locations by extending the matting down one (1) foot vertical and securing with anchor stakes. The anchor stakes shall be placed every two (2) feet on center. The construction of the Step Pools shall conform to the dimensions, grades, and details specified on the Contract Drawings, at the locations shown on the Plans, and as directed by the Engineer.

2. Live Stakes.

- a. Harvesting and installation of live stake materials shall take place during the dormant period of the year, generally November 1 through March 31. If completion of grading does not occur within this period, that is if the Contractor has not completed harvesting and installation on or before March 31, the Contractor shall wait until the dormant period that begins the following November to harvest and install the remaining live stakes.
- b. Live stake materials shall be purchased from a nursery specializing in the production of similar materials and shall include confirmation of species. Each live stake shall conform to the range of dimensions shown on the Contract Drawings.
- c. Live stakes shall be transported in climate-controlled conditions to insure against temperatures greater than 50 degrees Fahrenheit. Live stakes stored on site shall be kept moist, shaded, and protected against desiccation. Materials stored offsite shall be refrigerated and kept moist. In no case shall non-refrigerated materials be stored longer than five (5) calendar days.
- d. During installation, live stakes shall be kept damp by either covering with wet burlap or heeling into moist mulch until ready for use. Stakes shall be inspected for signs of desiccation, including but not limited to blackening of cut ends and lengthwise wrinkling of bark, and all unsuitable materials shall be appropriately discarded.
- e. The Contractor shall remove all side branches from all live stakes, cleanly and without causing damage to bark. Buds shall be oriented toward the top of each stake. Within two (2) hours prior to installation, using power shears or a power saw, the Contractor shall cut each stake at an angle on the bottom end as indicated in the detail.
- f. Live stakes shall be installed at approximate two (2) foot spacing throughout the planting zone. With approval of the Engineer, the Contractor shall achieve such spacing by preparing holes using a pointed digging bar, rebar, or other similar implements to achieve both the depth and the diameter required for each stake. Live

stakes shall be driven into the prepared hole using a dead blow hammer until the stake has been firmly placed as approved by the Engineer. Do not split the live stakes during installation. Discard and replace any live stakes that shatter during installation.

- g. The Contractor shall firmly backfill all voids surrounding all live stakes by hand tamping the soil tightly against each stake without scarring the stake.
- h. Reasonable tolerances of the details and construction methods as defined by the Engineer shall apply.

D. Toe Boulder Slope Protection

1. Grade and shape bank and channel to obtain desired channel configuration.
2. Cut a trench along the toe of the bank for placement of the footer stone such that the entire stone lies beneath the existing channel invert.
3. Place geotextile fabric along the channel bank, and extend fabric from the top of the bank down to and within the trench along the toe. When laying the fabric, overlap sections vertically, with the upstream sections overlapping the downstream sections. Fasten the geotextile fabric to the channel bank with landscape staples.
4. Place Toe Boulders into the trench along the toe such that they touch. Proceed to place individual boulders to create a wall that extends to the desired height of protection, staggering boulders such that the stones are overlapped by 25% to 50%.
5. Trim any excess geotextile fabric which extends beyond the Toe Boulder Slope Protection, grade to obtain desired transition from the Toe Boulder Slope Protection to adjacent areas, and seed and mulch all disturbed areas.

PART 4: MEASUREMENT AND PAYMENT

4.01 STEP POOL/OUTFALL CHANNELS:

- A. Step Pools will not be measured.
- B. Step Pools will be paid at the Contract lump sum price bid for each location, and will be full compensation for all excavation, grading, furnishing and installing all materials required including crest stones, foundation stones, sand filter material, geotextile, rip rap, channel bed material, deep pool material, natural fiber matting, topsoil, and transportation, preparation, compaction, disposal of excess material, and for all material, labor, equipment, tools, and incidentals necessary to

complete the work. Furnished Natural Channel Backfill as approved by the Engineer shall be measured and paid for separately at the Contract unit price per cubic yard.

4.02 RIFFLE GRADE CONTROL:

- A. Riffle Grade Control will not be measured.
- B. Riffle Grade Control will be paid at the Contract lump sum price bid for each location, and will be full compensation for all excavation, grading, furnishing and installing bed stability mix, salvaging and placing natural channel backfill, sandbag diversions or pump around techniques and transportation, preparation, compaction, disposal of excess material, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Furnished Natural Channel Backfill as approved by the Engineer shall be measured and paid for separately at the Contract unit price per cubic yard.

4.03 STREAMBANK STABILIZATION:

- A. Streambank Stabilization will not be measured.
- B. Streambank Stabilization will be paid at the Contract lump sum price bid, and will be full compensation for all excavation, grading, furnishing and installing bed stability mix, salvaging and placing natural channel backfill, sandbag diversions or pump around techniques and transportation, preparation, compaction, disposal of excess material, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Furnished Natural Channel Backfill as approved by the Engineer shall be measured and paid for separately at the Contract unit price per cubic yard.

4.04 TOE BOULDER SLOPE PROTECTION

- A. Toe Boulder Slope Protection will be measured per each toe boulder.
- B. Toe Boulder Slope Protection will be paid at the Contract unit price bid per each, and will be full compensation for all excavation, grading, furnishing and installing of toe boulders, geotextile material, salvaging and placing natural channel backfill, stream diversions, finish grading and stabilization of disturbed areas, preparation, compaction, disposal of excess material, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

END OF SECTION

SECTION 02630**STORM DRAINAGE****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. The work under this Section shall consist of furnishing materials for and constructing storm drain systems for surface runoff consisting of inlets, manholes, pipe, end sections, and headwalls in accordance with the these Specifications, the Contract Drawings and/or as directed by the Engineer.

1.02 DEFINITIONS:

- A. Drainage structures include inlets, manholes, endwalls, end sections, headwalls, and riser structures.

1.03 QUALITY ASSURANCE:

- A. Submittals: Section 01300, submittal procedures of these Specifications for concrete mix, pipe, manhole frames and covers, inlet frames and covers, and precast concrete structures.
1. Submit Certificate(s) of compliance stating that the item(s) supplied is in accordance with the requirements specified herein.
 2. Submit list of materials to be supplied and name of suppliers.
 3. Submit shop drawings for precast concrete structures and manhole and inlet frames, covers, and/or grates.

PART 2: PRODUCTS**2.01 MATERIALS:**

- A. Concrete shall meet the requirements of MSHA Section 902.10.03, Mix No. 2 or 6 as indicated on the Contract Drawings. Mix No. 1 Concrete shall meet the requirements of Baltimore City Specifications Article 20.07.
- B. Grout shall meet the requirements of MSHA Section 902.11.

- C. Castings for Frames, and Covers or Gratings shall be iron castings meeting the requirements of MSHA Section 909.04.
- D. Precast Concrete Endwalls, Inlets, and Manholes shall meet the requirements of AASHTO M 199.
- E. Reinforced Concrete Pipe shall meet the requirements of MSHA 905. Class as indicated on the Contract Drawings.
- F. Connections between drain pipes and concrete storm drain manholes and stone masonry drain shall be one of the following:
 - 1. Cast-in-Place type compression gaskets such as the A-Lok or Z-Lok seals as manufactured by A-Lok Products, Inc., or equal.
 - 2. Mechanically wedged-in-place type seals such as Link-Seal as manufactured by Thunderline Corp., XP as manufactured by A-Lik Products, Inc., or Kor-N-Seal as manufactured by National Pollution Control Systems, Inc., or equal.
 - 3. Grouted-in-Place type connectors such as Z-Lok Repair Sleeve as manufactured by Atlantic Concrete Products, Co., Type CT adapter as manufactured by the General Engineering Co., or equal.
 - 4. All metal fasteners shall be Type 304 stainless steel.
- G. Manhole steps shall be in accordance with MD SHA Std. 909.04 as appropriate.

PART 3: EXECUTION

3.01 DESCRIPTION:

- A. Place the specified size and type of pipe on a firm bed to the specified line and grade; make connections to existing pipes, inlets, end walls, or manholes; clean the existing pipes.

3.02 CONSTRUCTION SEQUENCE:

- A. Pipe lengths and gradients shall be verified by the Contractor and shall be acceptable to the Engineer prior to installation.
- B. When a pipe is laid on existing ground, on fill, or under fill, the embankment shall be constructed to a height of at least 9 in., but not more

than 3 ft. above the top of the proposed pipe and then a trench shall be excavated to receive the pipe.

- C. Underground drainage structures and pipe relocations shall be fully completed and made operational prior to excavations for pier construction.
- D. Underground drainage structures shall be completed before paving surface is placed. Manholes and inlets shall not be completed to final grade until the grading has been finished and all necessary arrangements have been made to insure suitable connections and tie-ins at proper grade and alignment with pavements, curbs, and gutters.

3.03 PIPE INSTALLATION:

- A. **Excavation:** In accordance with MSHA Section 303.03.01 except as modified herein. The width of trench shall be sufficient to permit thorough tamping of the backfill under the haunches and around the pipe. This width shall not be less than twice the outside diameter of the pipe or the outside diameter plus 18 in. on each side, whichever is less.
- B. **Bedding:** In accordance with MSHA Section 303.03.02 except as modified herein. Storm drain pipe shall be constructed on gravel bedding. When unsuitable foundation material is encountered, it shall be removed and replaced with select backfill for the full width of the trench, as directed by the Engineer.
- C. **Installation:** In accordance with MSHA Section 303.03.03 except as modified herein. Pipes shall be laid with hubs up grade. A single hole through the shell of the pipe will be permitted for use with an approved lifting device. After installation, the lay hole shall be sealed.
- E. **Joints:** In accordance with MSHA Section 303.03.04 except as modified herein. Asphalt sealer, rubber type gaskets or resilient type material shall be used for storm drain pipe. Care shall be exercised to insure the proper application of sealer on the underside of all joints. Unless otherwise specified in the Contract Documents, these materials shall be installed as recommended by the manufacturer.
- F. **Backfill:** In accordance with MSHA Section 303.03.07., except as modified herein. Earth for backfill shall be free from large lumps, clods, and rocks and shall be placed along the side of the pipe for the full width of the trench in layers not exceeding 6 inches in uncompacted depth. Compaction shall conform to the requirements of Section 02315. Each layer shall be compacted simultaneously on both sides of the pipe by

means of an approved mechanical tamper. Special care shall be taken to compact the fill thoroughly under the haunches of the pipe.

3.04 DRAINAGE STRUCTURES:

- A. Castings: Frames for grates and covers for inlets and manholes respectively shall be set in full beds of mortar and rigidly secured in place at proper grade and alignment.
- B. Drain Connections to Storm Drain Manholes:
 - 1. Holes for installing drains in manholes and other structures shall be carefully cored, drilled, or cut in such a manner to minimize damage to the manhole, or structure. Any damage to the manhole or structure shall be promptly repaired to the satisfaction of the Engineer or the manhole or structure replaced. Reinforcing steel in precast manholes shall be cut only to the extent necessary to accommodate the new pipe and seal system.
 - 2. The drain pipe and connection shall be roughly centered in the hole and the pipe end set flush with the inside wall of the manhole, or structure.
 - 3. If the manhole connector is the type that is installed in the field, installation of the connector shall be executed in accordance with the manufacture's written instructions.
- D. Pipe Connections: Inlet and outlet pipes at drainage structures shall be set or cut flush with the inside faces of the structures and shall extend a sufficient distance beyond the outside faces of these walls to provide ample room for making proper connections. The joint around the pipe in the structure wall shall be completely and neatly closed with mortar, grout, or other approval material.
- E. Inverts: Drainage structures containing two or more pipes shall have channeled inverts conforming to the Contract documents.
- F. Precast Drainage Structures:
 - 1. Precast Drainage Structures shall meet the requirements of AASHTO M199.
 - 2. The placement and consolidation of the required bedding under the precast structures shall be a minimum 6 in. of No. 57 aggregate.

- G. Cast-in-Place Drainage structures: Cast-in-Place Drainage Structures shall meet the requirements of MSHA Section 305.

PART 4: MEASUREMENT AND PAYMENT

4.01 REINFORCED CONCRETE PIPE, CLASS IV

- A. Reinforced Concrete Pipe, Class IV will be measured per linear foot for the pipe size specified.
- B. Reinforced Concrete Pipe, Class IV will be paid for at the contract unit price bid per linear foot for the pipe size specified, which price will be full compensation for all material, equipment, tools, labor and all work incidental and necessary to satisfactorily complete each item as specified, including excavation, furnishing and installing pipe, installing precast manhole, frame & cover making field connection, concrete, pipe hangers, backfill and compaction, restoration of concrete curb, gutter, mowing strip and paving.

4.02 CONCRETE END SECTION

- A. Concrete End Sections will be measured per each for the size specified.
- B. Concrete End Sections will be paid for at the contract unit price bid per each for the size specified, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including excavation, earth backfill and compaction and surface restoration.

4.03 INLETS – MINIMUM DEPTH

- A. Inlets will be measured per each for the type of inlet specified.
- B. Inlets will be paid for at the contract unit price bid per each, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including excavation, maintenance of traffic, demolition, bulkhead construction, inlet reconstruction, flowable fill, earth backfill and compaction and surface restoration.

4.04 INLETS – VERTICAL DEPTH

- A. Inlets – Vertical Depth will be measured per vertical linear foot for the type of inlet specified.

- B. Inlets – Vertical Depth will be paid for at the contract unit price bid per vertical linear foot, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including excavation, maintenance of traffic, demolition, bulkhead construction, inlet reconstruction, flowable fill, earth backfill and compaction and surface restoration.

4.05 MANHOLES – MINIMUM DEPTH

- A. Manholes will be measured per each for the type and size of manhole specified.
- B. Inlets will be paid for at the contract unit price bid per each, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including excavation, maintenance of traffic, demolition, bulkhead construction, inlet reconstruction, flowable fill, earth backfill and compaction and surface restoration.

4.06 MANHOLES – VERTICAL DEPTH

- A. Manholes – Vertical Depth will be measured per vertical linear foot for the type and size of manhole specified.
- B. Manholes – Vertical Depth will be paid for at the contract unit price bid per vertical linear foot, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including excavation, maintenance of traffic, demolition, bulkhead construction, inlet reconstruction, flowable fill, earth backfill and compaction and surface restoration.

4.07 STORMWATER MANHOLES

- A. Stormwater Manholes will be measured per each for the type and size of manhole specified.
- B. Stormwater Manholes will be paid for at the contract unit price bid per each, complete in place, which price will be full compensation for all material, equipment, tools, labor and all work incidental to complete the work as specified, including the manhole, low flow dewatering devices, orifice plates, projection collars, concrete cradles, valves, piping, gravel, signs, excavation, maintenance of traffic, demolition, bulkhead construction, inlet reconstruction, flowable fill, earth backfill and compaction, and surface restoration.

END OF SECTION

SECTION 02650**SAND FILTER****PART 1: GENERAL****1.01 DESCRIPTION:**

- A. This Section specifies the construction of sand filter facility and facility recharge zones for stormwater management consisting of inlets, pipe, underdrain, underdrain outlet, excavation, backfill, stone, and modifications to existing storm drainage structures as shown on the contract drawings, or as directed by the Engineer.

1.02 REFERENCES

- A. The following codes, regulations, reference standards and specifications apply to work included in this section:
- A. Maryland State Highway Administration (SHA) Standard Specifications for Construction and Materials, latest revision.
 - B. Maryland Department of the Environment, Water Management Administration Maryland Stormwater Management Guidelines, July 2001.
- B. Related Sections:
- 1. Section 02317: Excavation and Fill.
 - 2. Section 02620: Subdrainage.
 - 3. Section 02630: Storm Drainage.
 - 4. Section 02930: Tree, Shrubs and Ground Cover.
 - 5. Section 03050: Portland Cement Concrete.

PART 2: PRODUCTS**2.01 MATERIALS:**

A. Material Specifications - The allowable materials to be used in sand filter area are detailed in the following Table.

Material	Specification/ Test Method	Size	Notes
sand	clean AASHTO- M- 6 or ASTM- C-33 concrete sand	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium
peat	ash content: < 15%, pH range: 5.2 to 4.9 loose bulk density: 0.12 to 0.15 g/cc	n/a	The material must be reed- sedge hemic peat, shredded, uncompacted, uniform, and clean.
underdrain in gravel	AASHTO- M- 43	0.375" to 0.75"	
geotextile fabric	Class "C" & "F" - apparent opening size (ASTM- D- 4751), grab tensile strength (ASTM- D-4632), puncture resistance (ASTM- D- 4833)	n/a	Use Geotextile class "F" on top and bottom of concrete sand and gravel layers. Use Geotextile class "C" on bottom and all sides of class I lin-ran layers and outlet protections
impermeable liner	ASTM- D- 4833 (thickness) ASTM- D- 412 (tensile strength 1,100 lb., elongation 200%) ASTM-D-624 (Tear resistance-150 lb./ in) ASTM- D- 471 (water adsorption)	30 mil thickness	Liner to be ultraviolet resistant.
underdrain in piping	F 758, Type PS 28 or AASHTO- M-278	4" - 6" rigid schedule 40 PVC or	3/ 8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes
concrete (pre-cast)	SHA Standards and Specs. Section 902, Mix No. 3, f' c = 3500 psi, normal weight, air-entrained; re- reinforcing to meet ASTM- 615- 60	n/a	on- site testing of poured- in- place concrete required: 28 day strength and slump test; all concrete design (cast- in- place or pre- cast) <i>not using previously approved State or local standards</i> requires design drawings sealed and approved
concrete (pre-)	per pre- cast manufacturer	n/a	SEE ABOVE NOTE
non-rebar	ASTM A- 36	n/a	structural steel to be hot-dipped galvanized ASTM- A- 123

PART 3: EXECUTION**3.01 CONSTRUCTION SEQUENCE:**

- A. Sand filter facility shall not receive stormwater runoff during the construction until the facility is completely stabilized, functional, and acceptable to the Engineer.
- B. Provide sufficient maintenance access (i.e., 12-foot-wide road). Vegetated access slopes are to be a maximum of 10%; gravel slopes to 15%; paved slopes to 25%.
- C. Pipe lengths and gradients shall be verified by the Contractor and shall be acceptable to the Engineer prior to installation.

3.02 COMPACTION

- A. The Contractor shall minimize compaction of both the base of the sand filter area and the required backfill. When possible, use excavation hoes to remove original soil. When possible, use excavation hoes to remove original soil. If Sand Filter areas are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires.
- B. Compaction shall be alleviated at the base of the sand filter facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.
- C. Rototill 2 to 3 inches of sand into the base of the sand filter facility before backfilling the required sand layer. Pump any ponded water before preparing (rototilling) base.
- D. When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.
- E. When backfilling the sand filter facility, place soil in lifts 12" to 18". Do not use heavy equipment within the sand filter basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade sand filter materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

3.03 UNDERDRAINS

- A. Underdrain pipe are to be placed on Geotextile Class C. Pipe is placed next, followed by the gravel bedding. The exposed ends of underdrain pipes shall be capped.
- B. The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%.

3.04 MISCELLANEOUS

The sand filter facility may not be constructed until all contributing drainage area has been stabilized.

PART 4: MEASUREMENT AND PAYMENT**4.01 SAND FILTER FACILITY:**

- A. No measurement for the Sand Filter Facility will be made for payment.
- B. The Sand Filter Facility will be paid for at the contract lump sum bid price for each facility, which shall be full compensation for all applicable excavation, sheeting, shoring, dewatering, hauling, invert paving, storing and re-handling of material, removal and disposal of excess and unsuitable material, fill, fill material, forming bed or foundation, backfill, underdrain pipe, underdrain outlets, underdrain pipe connection, underdrain pipe fitting, observation wells, adjustment to existing inlets, drainage structures, inlets, reinforced concrete pipe, weir walls, perforated and non-perforated corrugated metal pipe, capping corrugated metal pipe, geotextile fabric, and all material, labor, equipment, tools and incidentals necessary to complete the work.

4.02 FACILITY RECHARGE:

- A. No measurement for the Facility Recharge will be made for payment.
- B. The Facility Recharge will be paid for at the contract lump sum bid price, which shall be full compensation for all applicable excavation, sheeting, shoring, dewatering, hauling, storing and re-handling of material, removal and disposal of excess and unsuitable material, fill, fill material, forming bed or foundation, backfill, rip rap, stone, topsoil, seed, weir wall for SWM #1, and all material, labor, equipment, tools and incidentals necessary to complete the work.

END OF SECTION



MARYLAND DEPARTMENT OF THE ENVIRONMENT
 1800 Washington Boulevard • Baltimore MD 21230
 410-537-3000 • 1-800-633-6101

Martin O'Malley, Governor
 Anthony G. Brown, Lt. Governor

Robert M. Summers, Ph.D., Acting Secretary

Received
 Maryland Transit Administration

STORMWATER MANAGEMENT AND
 SEDIMENT & EROSION CONTROL APPROVAL
 STATE/FEDERAL PROJECTS

OCT - 1 2012

APPROVED BY: *[Signature]*
 Chief, Sediment and Stormwater Plan Review Division
 (Pursuant to Criteria Noted Below)

Office of Engineering
 Facilities Engineering & ADA

MDE NUMBER: 09-SF-0009

EFFECTIVE DATE: September 24, 2012

IN COMPLIANCE WITH: Environment Article, Sections 4-106 and 4-205, Annotated Code of Maryland

APPROVAL IS HEREBY GRANTED: Maryland Transit Administration

ADDRESS: 6 Saint Paul Street
Baltimore, Maryland 21202-1614
Attn: Mr. Robert Burriss

HEREINAFTER KNOWN AS OWNER,
 FOR THE PLANS AND SPECIFICATIONS PRESENTED FOR: Contract No. MTA T-1035-0140

Dunkirk Park and Ride, Calvert County

PREPARED BY: Wallace Montgomery & Associates, LLP; Daniel Consultants, Inc.
 PLANS DATED: August 6, 2012

This APPROVAL is granted subject to the following conditions:

1. This Approval shall become null and void if the construction authorized herein has not begun within two (2) years from the granting of this Approval. If the construction authorized herein has not been completed within five (5) years from the granting of this Approval, the Approval shall become null and void except that these limits may be extended at the discretion of the Department.
2. The Approval is subject to all laws and regulations now in effect and may be revoked if it is subsequently determined that this authorization violates other laws of the State. Construction shall comply with approved terms.
3. The location and dimensions of all Sediment Control structures, excavation and filling shall be in accordance with plans approved by the Department of the Environment Water Management Administration (MDE/WMA). Owner or authorized agent must obtain written approval from the MDE/WMA for any plan modifications or changes. A copy of the approved plan with any approved modifications and this Approval shall be available at the construction site for reference during the construction period.
4. Off-site borrow or waste sites require local, county and Soil Conservation District approvals if they are located on private property or MDE/WMA approval if on State or Federal property. Local approval numbers shall be furnished to the MDE/WMA Inspector.
5. The Owner or his authorized agent shall notify the MDE/WMA Compliance Program at (410) 537-3510, at least seven (7) days prior to initiation of the project and five (5) days after work ends.
6. Stormwater Management is provided using one (1) pocket pond and two (2) surface sand filters. SHA Water Quality Bank for 02-13-11 (Patuxent River Area) is debited 0.01 acre for intersection improvements MD-4/Town Center Boulevard.
7. Prior to any earth disturbance, an NPDES application must be submitted to and approved by MDE/WMA.

JKT/CLW



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

October 2, 2012

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

Maryland Transit Administration
Mr. Robert L. Burris
6 St. Paul Street
Baltimore, MD 21202

RE: 09SF0009

Dear Mr. Burris:

Please find enclosed the general NPDES discharge permit for stormwater associated with construction activities for **Dunkirk Park and Ride Facility** issued to **Maryland Transit Administration**. Please note that the effective date of the discharge permit is the date on the cover sheet for the general permit. If the current erosion and sediment control plan approval covers only part of the entire site covered by this permit, be advised that this permit does not authorize discharges from the other portions of the site until the appropriate erosion and sediment control approval authority approves the erosion and sediment control plan for those portions. The permit also requires that the site have an approved stormwater management plan (unless exempt or waived by the stormwater approval authority) prior to earth disturbance. Part IV.C.3 of the permit requires the permittee to use the standard written report form as provided by MDE. The form is available on MDE's website at the following location both as a fillable Microsoft Word form and as an Adobe Acrobat file:

http://www.mde.state.md.us/programs/Permits/WaterManagementPermits/WaterDischargePermitApplications/Pages/Permits/watermanagementpermits/water_applications/gp_construction.aspx

A printed copy of the required inspection form has also been enclosed for your convenience.

Your cooperation in this matter is appreciated. If you have any questions, please call Ms. Karen Smith at (410) 537-3401.

Sincerely,

Received
Maryland Transit Administration

OCT - 9 2012

Office of Engineering
Facilities Engineering & ADA

Thomas C. Boone, Director
Compliance Program
Water Management Administration

TCB:vm

Enclosure



**GENERAL PERMIT FOR STORMWATER ASSOCIATED
WITH CONSTRUCTION ACTIVITY**

**State Discharge Permit
Number:**

09SF0009

Effective Date: October 2, 2012

Expiration Date: December 31, 2013

NOTE: If site work is complete per Part II.H.
prior to the expiration date, the permittee must
submit a Notice of Termination and terminate
the permit.

Pursuant to the provisions of Title 9 of the Environment Article, Annotated Code of Maryland, and regulations promulgated thereunder, and the provisions of the Clean Water Act, 33 U.S.C., Section 1251 et. seq., and implementing regulations 40.CFR Parts 122, 123, 124 and 125, the Department of the Environment hereby establishes conditions and requirements pertinent to stormwater associated with construction activity at the site described below and authorizes:

**Maryland Transit Administration
6 St. Paul Street
Baltimore, MD 21202
(Calvert County)**

TO DISCHARGE STORMWATER FROM: Dunkirk Park and Ride Facility construction project on 12.20 acres at property located off MD 4 just North of Town Center Blvd., Dunkirk, MD.20754. *If the current erosion and sediment control plan approval covers only part of the entire site covered by this permit, this permit does not authorize discharges from the other portions of the site until the appropriate erosion and sediment control approval authority approves the erosion and sediment control plan for those portions.*

TO: Hall Creek, which is Use I waters protected for Water Contact Recreation, Fishing, and Protection of Aquatic Life and Wildlife, in accordance with the following General Permit and a map incorporated herein and made a part hereof.

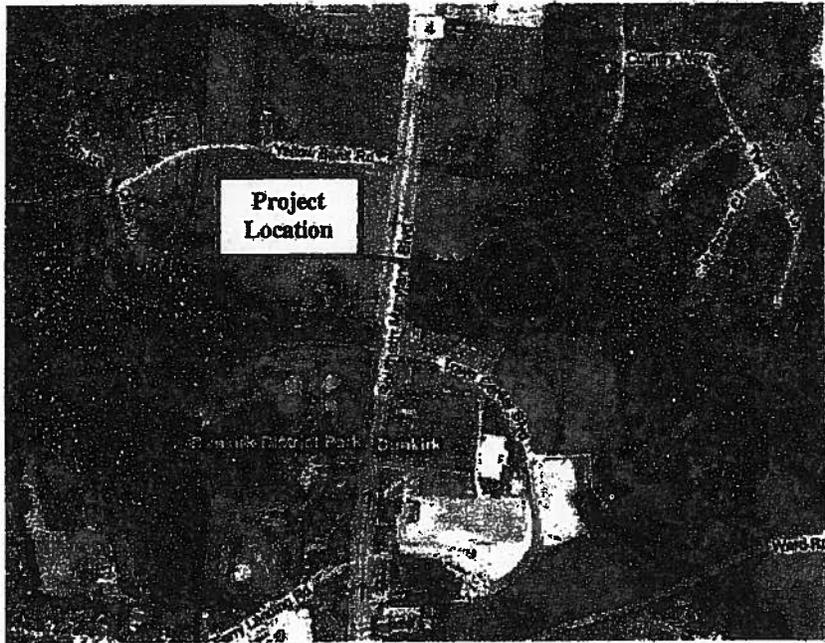


Figure 1: Location Map

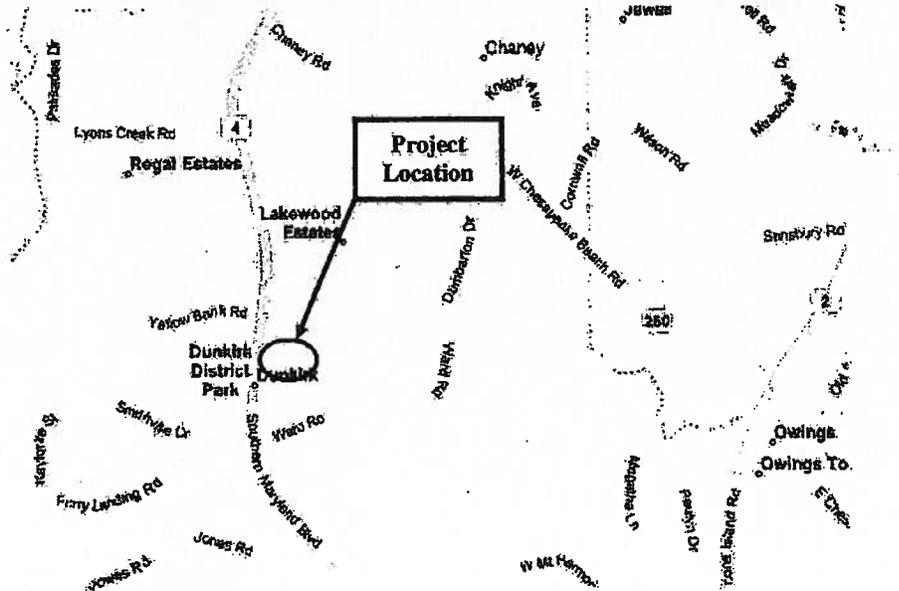


Figure 2: Vicinity Map

PROJECT LOCATION - Dunkirk, MD, Calvert County (not to scale)

MARYLAND DEPARTMENT OF THE ENVIRONMENT
GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY
General NPDES Permit Number MDR10
State Discharge Permit Number 09GP

EFFECTIVE DATE: January 1, 2009 EXPIRATION DATE: December 31, 2013

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PART I. COVERAGE UNDER THIS PERMIT

A. NOI Approval Process and Public Review Period

1. Certification of Erosion and Sediment Control Submission to Approval Authority.

Maryland Department of the Environment (MDE) will begin processing a Notice of Intent (NOI) to be covered under this general permit when the applicant provides certification that an erosion and sediment control plan (ESC plan) was submitted to the appropriate approval authority. If an NOI is submitted before the Erosion and Sediment control plan is submitted to the approval authority, MDE will not accept it for processing and will send notice to the applicant that the NOI is incomplete and will not be processed until the required information is provided. MDE will regularly post NOI information on the MDE Website to include all NOIs submitted during the previous week.

2. Processing Period and Issuance of Coverage NOIs for Sites with 3 Acres or More of Disturbed Area.

In order to provide opportunity for public review of plans for sites to be covered by this permit, MDE will not act on NOIs for construction sites composed of 3 acres or more of disturbed area during a minimum 45-day period that begins on the date the NOI information is posted on the MDE Website. After 45 days have elapsed and following MDE's receipt of notification from the applicant demonstrating that the Erosion and Sediment Control Plan for the project has been approved by the appropriate approval authority MDE will make every reasonable effort, within 48 hours of said 45-day period, to issue notification that the site is covered under the general permit for stormwater associated with construction activities, with the exception described in paragraph 4 of this section. If an NOI is submitted to MDE after the appropriate approval authority has already approved an Erosion and Sediment control plan, MDE will advertise the submission of the NOI, but will not act on the NOI for 45 days. If no adverse comments are received during the 45 days then the NOI will be processed like all other NOIs.

3. NOIs for Sites that Involve at Least One Acre but Less than 3 Acres of Disturbed Area .

MDE will not act on NOIs for construction sites that involve one acre or more but less than 3 acres of disturbed area during a 30-day period that begins on the date the NOI information is posted on the MDE Website. After 30 days have elapsed and following MDE's receipt of notification from the applicant demonstrating that the Erosion and Sediment Control Plan for the project has been approved by the appropriate approval authority, MDE will make every reasonable effort, within 48 hours of said 30-day period, to issue notification that the site is covered under the general permit for stormwater associated with construction activities, with the exception described in paragraph 4 of this section. If an NOI for a construction site that involves less than 3 acres but at least one acre or more of disturbed area is submitted to MDE after the appropriate approval authority has already approved an Erosion and Sediment Control Plan, MDE will advertise the submission of the NOI, but will not act on the NOI for 30 days. If no adverse comments are received during the 30 days then the NOI will be processed like all other NOIs.

4. Exception to NOI Approval Process.

If MDE receives, prior to issuance of General Permit coverage, a request from any person that the site be required to obtain an individual permit with a detailed, written explanation as to why the Erosion and Sediment Control Plan fails to meet State erosion and sediment control or stormwater management standards, MDE will do the following: (i) notify the general permit applicant that a request that an individual permit be required has been received, (ii) evaluate the information, and (iii) make a decision and send notification of that decision to the NOI applicant and the person requesting that an individual permit be required as described in Section I.D.

5. Regular Update of NOI approvals on MDE's Website

Each week MDE will update information on the MDE Website to show all NOIs approved during the previous week.

B. Permit Applicability to Areas in Maryland

This permit covers all areas of the State of Maryland.

C. Eligibility

1. What This Permit Covers:

This permit covers all new and existing stormwater discharges that are composed in whole or in part of discharges associated with construction activity [as defined by 40 Code of Federal Regulations (40 CFR), Section 122.26 (b)(14)(x) and Section 122.26(b)(15)(i); see Part VIII, Definitions]. This permit is not an alternative for and does not take the place of any local permits or ordinances required by Maryland law or regulation or by the county or municipality that has jurisdiction where the construction activity occurs, including but not limited to a grading permit, erosion and sediment control plan approval, or stormwater management plan approval.

2. Facilities with a permit for a non-stormwater discharge.

Stormwater discharges associated with construction activity at facilities which have a permit for a discharge other than stormwater can be covered by this general permit, an alternative general permit, or, at the discretion of the Director, an existing individual permit may be amended to cover stormwater discharges associated with construction activities.

D. Requiring an Individual Permit or an Alternative General Permit

1. The Director may require any person authorized by this permit to apply for and obtain either an individual permit or coverage under an alternative general permit. Any interested person may petition the Director to take action under this paragraph. The Director may require any person authorized to discharge under this permit to apply for an individual permit or obtain coverage under an alternative general permit only if that person has been notified in writing that such a change is required. This notice shall include:
 - a. A brief statement of the reasons for this decision;
 - b. A statement setting a deadline for the notified person to file an application for an individual permit or a file a NOI in accordance with the terms of the alternative general permit;
 - c. A permit application if applicable; and
 - d. For existing permittees, a statement that on the effective date of the individual permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate.
2. The Director may grant additional time to submit the application or NOI upon request of the applicant. If the person so notified fails to submit in a timely manner an individual permit application or an NOI for coverage under an alternative general permit as required by the Director under this paragraph, then the individual permittee's coverage under this permit is automatically terminated at the end of the day specified in the Director's notification.
3. Any person authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit or filing an NOI for coverage under an alternative general permit. The person seeking an individual permit shall submit an individual application in accordance with the United States Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) regulations at 40 C.F.R. Part 122, with reasons supporting the request to the Director. The person seeking coverage under an alternative general permit shall file an NOI in accordance with the terms of the alternative general permit. A request for an individual permit shall be granted if the Director determines that the reasons cited by the applicant are adequate to support the request. If the applicant seeks coverage under an alternative general permit, the terms of that permit will determine whether coverage under the alternative general permit is obtained.
4. When an individual permit is issued to a person otherwise covered by this permit, the applicability of this permit to the individual permittee is automatically terminated on the effective date of the individual permit. Similarly, when a person subject to this permit obtains coverage under an alternative general permit, the applicability of this permit is terminated on the effective date of the alternative general permit. When an individual permit is denied to an applicant otherwise covered by this permit, or the applicant is denied coverage under the terms of an alternative general permit, the applicability of this general permit to the permittee may be terminated by MDE.

- E. Authorization.** A person planning construction activity must have coverage under an approved NOI to be authorized to discharge stormwater under this general permit. Unless notified by the Director to the contrary, persons who have coverage under an approved NOI are authorized to discharge stormwater associated with construction activity under the terms and conditions of this permit.
- F. Transfer of Authorization.**
1. Transfer of control of permitted activities at the site. A person submitting an NOI who does not intend to control the permitted activities on the site shall transfer authorization under this permit, at least 48 hours prior to any land disturbing activities, to a duly authorized person who will control the permitted activities. The transfer shall become effective upon receipt by the Administration of a completed Transfer of Authorization form, signed by both the transferor and transferee. The Transfer of Authorization form shall include a specific statement that the transferee will abide by all conditions of the erosion and sediment control plan and stormwater management plan. Should the permittee decide to transfer authorization under this permit during the construction period, written notification (as outlined above) must occur immediately.
 2. Transfer of property to a new owner. A permittee may transfer coverage under this general permit to a new owner should ownership change during the construction period. The transfer shall become effective upon receipt by the Administration of a completed Transfer of Authorization form, signed by both the transferor and transferee. The Transfer of Authorization form shall include a specific statement that the transferee will abide by all conditions of the erosion and sediment control plan and stormwater management plan.
 3. Obligations of the permittee. The permittee ("transferor") must familiarize the person who is assuming control of the permitted activities ("transferee") or the new owner, in the case of an ownership change, with the program and provide the transferee/new owner with a copy of this general permit. All conditions and obligations outlined in this general permit will apply to the new permittee/owner upon transfer.

Part II. NOTICE OF INTENT REQUIREMENTS

A. Deadlines for Notification.

1. For construction activity beginning on or after January 1, 2009:
Persons who intend to obtain coverage for a stormwater discharge associated with construction activity under this general permit shall submit an NOI in accordance with the requirements of Part I. Section A and shall not perform any land disturbing activities prior to receiving NOI approval.
2. For construction activity beginning prior to, and continuing past, January 1, 2009, and currently covered under a previous version of this general permit:
Permittees whose projects are currently covered under a previous version of the general permit will be covered under the new general permit, effective January 1, 2009 (General Permit), when it becomes effective. Compliance with all requirements under the new General Permit, effective January 1, 2009, is required for an additional phase or phases of multi-phased project not covered under the pre-existing NOI.
3. Persons who obtain coverage under this general permit shall, prior to commencing construction, develop and obtain approval from appropriate approval authority of: (i) erosion and sediment control plans in accordance with the requirements established in Title 4, Subtitle 1 of the Environment Article, Annotated Code of Maryland (Sediment Control); and in Code of Maryland Regulations (COMAR) 26.17.01 (Erosion and Sediment Control); and (ii) stormwater management plans in accordance with the requirements established in Title 4, Subtitle 2 of the Environment Article, Annotated Code of Maryland (Stormwater Management); and in COMAR 26.17.02 (Stormwater Management). Erosion and Sediment Control Plans and Stormwater Management Plans required under the general permit (with the exception of those plans for sites previously covered under a previous version of the general permit) shall include a written explanation demonstrating that the plan addresses these critical points of interest in addition to the basic elements included in those plans:
 - a. Utilization of Environmental Site Design during all phases of design and construction, including but not limited to early construction and development of site design, continuation of Environmental Site Design from first disturbance to

- post-construction. Such Environmental Site Design shall be included in an approved Erosion and Sediment Control Plan or Stormwater Management Plan.
- b. Maintenance of the limits of disturbance shown on plans are inclusive, consistent and prevent disturbance to streams, natural drainage features, stream buffers, soil conservation areas, wetlands, and forest conservation areas during construction except as specified in an approved Erosion and Sediment Control Plan.
 - c. Control of construction equipment and vehicles so that they do not enter areas reserved for future stormwater infiltration or recharge except as specified in an approved Erosion and Sediment Control Plan.
 - d. Evaluation and appropriate limitation of site clearing needed to accommodate the building and transportation footprint at low-density sites so as to minimize impacts as specified in an approved Erosion and Sediment Control Plan or Stormwater Management Plan.
 - e. Evaluation and designation as to whether there is a minimum site area where construction phasing or sequencing must be used on specific sites in accordance with an approved Erosion and Sediment Control Plan.
 - f. Identification of soils at high risk for erosion and designation of advanced stabilization techniques, such as geotextile erosion control mats and blankets, mulch and turf reinforcement, for such soils on specific sites in accordance with an approved Erosion and Sediment Control Plan.
 - g. Identification of steep slopes and designation of limitations on clearing on the steep slopes on specific sites in accordance with an approved Erosion and Sediment Control Plan.
 - h. Evaluation and designation of stabilization requirements, such as hydroseeding, mulch, etc., including a time limit to initiate stabilization after soil has been exposed, on a site-by-site basis to minimize exposure of disturbed areas and visible dirt in accordance with an approved Erosion and Sediment Control Plan.
 - i. Protection measures for discharges to the Chesapeake Bay or impaired waters or waters with an established TMDL.
- B. Application.** The applicant shall submit to the Administration an NOI to be covered under this general permit. The NOI will constitute application and must be accompanied by the appropriate fee required by the Administration and established in State regulations to be considered complete. An applicant may submit an NOI form in accordance with the requirements of this Part after the applicable deadline. In such instances, an enforcement action for any stormwater discharges associated with the construction activity occurring prior to notification may be taken.
- C. Failure to Notify.** Persons who disturb earth as part of a construction activity and fail to notify the Director of their intent to be covered by an NPDES stormwater discharge permit as required herein, and discharge pollutants to waters of the United States without a permit, are in violation of the Clean Water Act (CWA). Persons who disturb one acre or more of earth and fail to notify the Director of their intent to be covered, and discharge pollutants to waters of the State are in violation of Section 4-413 and 9-322 of the Environment Article, Annotated Code of Maryland.
- D. Contents of Applications.** As stated in Part II. B. above, an NOI to be covered under this general permit will constitute application. The NOI shall include, but not be limited to, the following:
1. The site's name, mailing address, and general location;
 2. The site's latitude and longitude (to the nearest 15 seconds) and Maryland Grid Coordinates (for the approximate center of the site);
 3. A map of the site;
 4. The permittee's name and signature, address, telephone number, and principal contact;
 5. A brief project description, including existing and proposed land uses;
 6. Standard Industrial Classification (SIC);

7. The name of the eventual receiving waters (if the discharge is to a municipal separate storm sewer system, the name of the municipal system and the receiving waters shall be supplied);
 8. A confirmation that the permittee has compared the eventual receiving waters with the Maryland 303(d) list, the date on which the comparison took place, and a statement as to whether the eventual receiving waters are listed on the 303(d) list as impaired for sediment. Indicate the name and location of the impaired waters.
 9. The total site area, the total proposed disturbed area, the type(s) of stormwater management best management practice(s) (BMP) proposed, and the total drainage area to be controlled by each type of BMP; and
 10. Permit number of any other NPDES Permit related to this site.
- E. Fees.** An application fee is required with the submission of the NOI form. The fee schedule is based on the size of the total planned disturbance. The applicant should determine the appropriate fee to be paid from the fee schedule set in State regulations.
- F. Where to Submit.** Persons intending to discharge stormwater associated with construction activity must submit erosion and sediment control and stormwater management plans in accordance with procedures established in, and to the approving authorities identified in, the laws and regulations cited in Part II. of this general permit. Applications (NOIs) for coverage under this general permit shall be mailed to the Administration at the following address:
- The Maryland Department of the Environment
Water Management Administration
P.O. Box 2057
Baltimore, Maryland 21203-2057
- G. Effective Date of Coverage.** Coverage under this general permit is effective as described in Part I. A. The completed application (NOI form) must be accompanied by the appropriate fee as outlined in Maryland regulations and in Part II. E. above. The effective date for Transfer of Authorization shall be in accordance with Part I.F. Coverage under this general permit will expire when the General Permit is reissued or expires, or when a Notice of Termination form has been completed and received by MDE, whichever occurs first.
- H. Notice of Termination.** When all portions of a site have been permanently stabilized as defined herein, and all stormwater discharges from construction sites that are authorized by this permit are eliminated, the authorized permittee of the facility must submit a Notice of Termination form, which may be obtained through MDE's Website or upon request to MDE.
1. The Notice of Termination shall include, but not be limited to, the following:
 - a. The mailing address and location of the construction site for which notification is submitted. Where a mailing address is not available, the location can be described in terms of the latitude and longitude (to the nearest 15 seconds) and Maryland Grid Coordinates of the approximate center of the facility;
 - b. The permittee's name, address, and telephone number;
 - c. The name, address, and telephone number of the general contractor(s);
 - d. The NOI identification number;
 - e. The following certification statement, signed as required by section VI.J. herein:
"I certify under penalty of law that disturbed soils at the identified site have been acceptably and permanently stabilized and that temporary erosion and sediment controls have been removed or will be removed at an appropriate time and that all stormwater discharges associated with construction activity from this site that are authorized by this general permit have been eliminated. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge stormwater associated with construction activity by the general permit and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by an NPDES permit. I also understand that the submittal of

this Notice of Termination does not release the permittee from liability for any violations of this permit or the Clean Water Act which may have occurred at this site."

2. The completed Notice of Termination form shall be sent to the following address:

The Maryland Department of the Environment
Compliance Program
Water Management Administration
P.O. Box 2057
Baltimore, Maryland 21203-2057

Part III. SPECIAL CONDITIONS

A. Prohibition against Non-Stormwater Discharges.

1. All discharges covered by this permit shall be composed entirely of stormwater, except as provided below in paragraph 4.
2. Discharge of material other than stormwater must be in accordance with erosion and sediment control and stormwater management plans approved in accordance with the laws and regulations cited in Part II. A. above.
3. Discharges of material other than stormwater must be in compliance with an NPDES permit (other than this permit) issued for the discharge.
4. The following non-stormwater discharges may be authorized by this permit provided the non-stormwater component is a discharge from: fire fighting activities; fire hydrant flushings; air conditioning condensate; uncontaminated spring water; and foundation or footing drains where flows are not causing an erosive condition or contaminated with process materials such as solvents.

B. Other Requirements for Erosion and Sediment Control and Stormwater Management Plans.

1. All plans for construction activity and any reports prepared pursuant to this permit, including self-inspection information, shall be available to the public under Section 308(b) of the CWA.
2. Upon request by the public, the permittee or person covered by this general permit shall make such documents available. However, the permittee may claim applicable portions of these documents as confidential in accordance with 40 Code of Federal Regulations (CFR) Part 2.

C. Releases in Excess of Reportable Quantities. In the event of a discharge of hazardous substances or oil from a construction site, such discharge shall be minimized and/or contained in accordance with the approved erosion and sediment control and stormwater management plans.

1. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reporting quantity established under either 40 CFR 110, 40 CFR 117, or 40 CFR 302, occurs during a 24 hour period:
 - a. The permittee shall notify the National Response Center (NRC) as soon as he or she has knowledge of the discharge at 1-800-424-8802 or 202-267-2675 (in the Washington, DC metropolitan area), in accordance with the requirements of 40 CFR 110, 40 CFR 117, and 40 CFR 302;
 - b. The permittee shall notify the Maryland Department of the Environment as soon as he or she has knowledge of the discharge. The contact numbers are 410-537-3510 between 8AM - 5PM or after hours at 410-537-3937;
 - c. The permittee shall submit within 7 calendar days of knowledge of the release an application for individual permit coverage in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with a written description of the release, the circumstances leading to the release, the nature and date of the release, and steps taken to control and respond to the release. This application should be sent to the Maryland Department of the Environment, Water Management Administration;
 - d. The permittee shall, within 14 days of knowledge of the release, modify the existing erosion and sediment control and stormwater management plans to identify and provide for the implementation of steps to prevent and control the recurrence of such releases or similar releases in the future, and to respond to such releases. The permittee

shall also provide notification to the Maryland Department of the Environment that the erosion and sediment control plan and stormwater management plan modifications have been completed and approved by the appropriate approval authority.

2. Discharges of hazardous substances and oil resulting from on-site spills are not authorized by this permit.
3. No condition of this general permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

Part IV. EFFLUENT LIMITATIONS, PREVENTION OF THE DISCHARGE OF SIGNIFICANT AMOUNTS OF SEDIMENT, MONITORING, RECORDING AND REPORTING REQUIREMENTS

A. Effluent Limitations.

1. The permittee must select, install, implement and maintain control measures (i.e., BMPs, controls, practices, etc.) at the construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. The permittee must implement the control measures from commencement of construction activity until permanent stabilization is complete. In general, the stormwater controls developed, implemented, and updated consistent with the laws and regulations cited in Part II.A. of this general permit are considered as stringent as necessary to ensure that discharges covered by this permit do not cause or contribute to an excursion above any applicable water quality standard.
2. At any time after authorization, MDE may determine that the permittee's stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, MDE will require the permittee to:
 - a. Modify the stormwater controls to adequately address, achieve and document the identified water quality concerns;
 - b. Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; and/or
 - c. Cease discharges of pollutants from construction activity and submit an individual permit application according to Part I.D.

B. Prevention of the Discharge of Significant Amounts of Sediment. In addition to Part IV.A. above, the permittee must take all reasonable measures to prevent the discharge of significant amounts of sediment to surface waters, or conveyance systems leading to surface waters, particularly in the Chesapeake Bay watershed or impaired waterways.

1. Conditions indicating discharge of significant amounts of sediment include, but are not limited to, the following:
 - a. Earth slides or mud flows;
 - b. Concentrated flows of stormwater such as rills, rivulets or channels that cause erosion when such flows are not filtered, settled or otherwise treated to remove sediment;
 - c. Turbid flows of stormwater that are not filtered, settled or otherwise treated to reduce turbidity;
 - d. Deposits of sediment at the construction site in areas that drain to unprotected stormwater inlets or catch basins that discharge directly to surface waters;
 - e. Deposits of sediment from the construction site on public or private streets outside of the permitted construction activity;
 - f. Deposits of sediment from the construction site on any adjacent property outside of the permitted construction activity; or
 - g. Discharges from the construction site to municipal conveyances, curbs and gutters, or streams running through or along the site where visual observations show that the

discharges differ from ambient conditions in terms of turbidity so as to indicate significant amounts of sediment present in them.

2. If the permittee observes any of the triggering events described in Section IV.B, above, or if any person informs the enforcement authority or MDE of a triggering event and the enforcement authority or MDE informs the permittee that one or more of the triggering events was verified, the permittee must undertake the following actions and record the dates and results of these actions in an onsite logbook.
 - a. Within one day the permittee shall inspect erosion and sediment control practices to verify compliance with its approved Plans. Any deficiencies, including, but not limited to, failure to follow the approved sequence of construction, failure to maintain approved buffers, grading beyond the limit of disturbance, or any approved sediment and erosion controls found to be missing, improperly installed or in need of maintenance must be corrected immediately and may be considered to be a violation of this permit until such time that they are corrected.
 - b. If the site is found to be in compliance with its approved Plans, the permittee shall, by the next business day, contact the enforcement authority for the site and appropriate approval authority for Erosion and Sediment Control and inform the authorities about the conditions observed during the inspection cited above. In addition to any requirements imposed by the delegated enforcement authority or MDE, the permittee shall, after notifying the enforcement authority, implement any of the following that are determined to be appropriate towards the prevention of further triggering events:
 - (1) Any change that may be approved in the field by the inspector for the enforcement authority for the site;
 - (2) Modifications to the Plans allowed as field modifications by the approval authority;
 - (3) Performing temporary or permanent seeding of disturbed areas more frequently than required by the approved Plan or regulation; or
 - (4) Increasing buffer distances.The permittee shall implement any changes needed based on the above review within four days after the triggering event is observed.
3. If additional triggering events are observed, the permittee shall, through its site engineer, determine if the Erosion and Sediment Control Plan and Stormwater Management Plan are adequate, or whether additional on-site practices or plan modifications are required. Within three days of the second observation of a triggering event, the permittee shall contact the enforcement authority for the site and approval authority for the Plans and advise them that:
 - a. The permittee observed a triggering event;
 - b. The event happened despite the fact that erosion and sediment controls were properly installed and maintained; and
 - c. The permittee is reviewing plans and will afford the approval authority the opportunity to concurrently review them.The permittee's review of plans shall begin within three days of the triggering event. The permittee must submit revised plans to the approval authority no later than 14 days of the second observation of a triggering event. The permittee must obtain approval of the revised Plans from the approval authority and begin implementation of the changes immediately upon approval.

- C. Monitoring and Records.** For the purposes of monitoring, a permittee must do all the following:
1. During construction, maintain at the site the approved erosion and sediment control plan, the approved stormwater management plan, a copy of this General Permit, a copy of the NOI application and a copy of the NOI approval form.
 2. During the entire period of permit coverage, for all active and inactive sites, conduct inspections of the permitted area at the following intervals:
 - a. Weekly;
 - b. The next day after a rainfall event resulting in runoff; and

- c. As required in Part IV.B.
- 3. Maintain at the site written reports of all inspections conducted by the permittee. The permittee shall use the standard written report form as provided by MDE. The permittee shall complete all applicable portions of the form, and may attach additional information to the form. The permittee shall ensure that the report includes:
 - a. the date and time of the inspection;
 - b. the name(s) of the individual(s) who performed the inspection;
 - c. whether significant amounts of sediment were observed as described in Part IV.B, Prevention of the Discharge of Significant Amounts of Sediment, above.;
 - d. an assessment of the condition of erosion and sediment controls and how any deficiencies were or are being addressed;
 - e. a description and date of any erosion and sediment control implementation and maintenance performed, including identification of any controls that have not been installed as required; and
 - f. a description of the site's present phase of construction.
- 4. Maintain pertinent data related to the NOI (including all data used to complete the NOI), self-inspection reports and inspection reports and enforcement actions issued to the permittee by the appropriate enforcement authority, including but not limited to all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, for a period of three (3) years from the date that the site is permanently stabilized as follows:
 - a. Permittees must retain the records described in Part IV and V and records of all data used to complete the NOI to be covered by this permit. Maintain at the site written reports of all inspections conducted by the permittee as required by Part IV. C.
 - b. Maintain all inspection reports and enforcement actions issued to the permittee from any appropriate enforcement or approval authority, including MDE, the delegated enforcement authority, or the U.S. Environmental Protection Agency.
 - c. Records of monitoring information must include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.
- 5. Ensure that samples and measurements taken for the purpose of monitoring are representative of the monitored activity.
- D. **Reporting Requirements.** The permittee shall submit, upon request by MDE, the information maintained in accordance with Part IV. B. to:

The Maryland Department of the Environment
 Water Management Administration
 Compliance Program
 1800 Washington Blvd, Ste 420
 Baltimore, Maryland 21230-1708

Part V. CONSISTENCY WITH TOTAL MAXIMUM DAILY LOADS

If the discharge covered by this permit enters a water with an established or approved Total Maximum Daily Load (TMDL), the permittee must implement measures to ensure that the discharge of pollutants from the site is consistent with the assumptions and meets the requirements of the approved TMDL, including any specific wasteload allocation that has been established that would apply to the discharge.

Part VI. STANDARD PERMIT CONDITIONS

- A. **Duty to Comply.** It is a condition of this permit that the permittee comply with erosion and sediment control and stormwater management plans approved in accordance with the laws and regulations cited in Part II. A.3, above, and with all conditions of this general permit. If MDE adopts applicable requirements after the effective date of this permit, including but not limited to

revised Standards and Specifications for Soil Erosion and Sediment Control or requirements that permittees implement environmental site design through the use of nonstructural best management practices and other better site design techniques, the permittee must comply with those requirements by the deadline set forth in those requirements. Violations of plans for construction activity, including applicable Erosion and Sediment Control and Stormwater Management Plans, constitute violations of this permit, State law, and the CWA. Violations of this permit are grounds for enforcement action; for permit termination, revocation, reissuance, or modification; or for denial of a permit renewal.

- B. **Continuation of Coverage under This General Permit.** Once construction has commenced, it is a condition of this permit that erosion and sediment control and stormwater management plan approvals be kept in effect. Construction activity may not continue if these plans have expired, but may resume once plans are renewed without payment of an additional fee as long as coverage under this General Permit is still in effect.
- C. **Continuation of the Expired General Permit.** An expired general permit continues in force and effect until a new general permit is issued.
- D. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this general permit.
- E. **Duty to Mitigate.** The permittee shall take all reasonable steps to prevent or minimize the environmental or human health impact caused by any discharge allowed by this general permit.
- F. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the installation and operation of backup, auxiliary, or similar systems or controls, by a permittee when necessary to achieve compliance with the conditions of the permit.
- G. **Bypass**
 - 1. Definitions.
 - a. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
 - b. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - 2. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation.
 - 3. Notice—
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, the permittee must submit prior notice, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee must submit notice of an unanticipated bypass as soon as possible to the time when it is known, but in no case longer than 24-hours after learning of the event.
 - 4. Prohibition of bypass.
 - a. Bypass is prohibited, and MDE or EPA may take enforcement action against the permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

- (3) The permittee submitted notices as required.
- b. MDE or EPA may approve an anticipated bypass, after considering its adverse effects, if MDE or EPA determines that the bypass meets the three conditions listed above.

H. Upset

1. Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the permittee's reasonable control. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 2. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part VI.H.3, below, are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 3. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required; and
 - d. The permittee complied with any required remedial measures.
 4. Burden of proof. In any enforcement proceeding, the permittee, as the one seeking to establish the occurrence of an upset, has the burden of proof.
- I. Duty to Provide Information.** The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Director upon request copies of records required to be kept by this permit, State law, or the CWA.
- J. Other Information.** When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in plans approved in accordance with the laws and regulations cited in Part II. A., he or she shall promptly submit such facts or information to the Director or the appropriate plan review authority.
- K. Certification.** Any person signing documents under this section shall provide certification in accordance with the laws and regulations identified in Part VI. L below.
- L. Signatory Requirements.** All submissions of reports, certifications or information shall be signed in accordance with requirements established in Title 4, Subtitle 1 of the Environment Article, Annotated Code of Maryland (Sediment Control); COMAR 26.17.01 (Erosion and Sediment Control); Title 4, Subtitle 2 of the Environment Article, Annotated Code of Maryland (Stormwater Management); and COMAR 26.17.02 (Stormwater Management). All Notices of Intent shall be signed as follows:
For a corporation: by a responsible corporate officer;
For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
For a municipality, State, federal, or other public agency: by either a principal executive officer or a duly authorized official.
- M. Liabilities under Other Laws.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 309 of the CWA, any applicable State or Federal law, or regulation under authority preserved by section 510 of the CWA.
- N. Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
- O. Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

- P. **Transfers.** This permit is not transferable to any person except after notice to the Director in accordance with Part I. F. above. As part of such transfer, the Director may require separate application for an individual permit as stated in Part I. D.
- Q. **Inspection and Entry.** The permittee shall allow the Director or an authorized representative of EPA or the State who is assigned responsibilities in the laws and regulations cited in Part II. A., upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated activity is located or conducted or where records must be kept under the conditions of this permit;
 2. Have access to and obtain copies at reasonable times of any records that must be kept under the conditions of this permit; and
 3. Inspect at reasonable times, without prior notice, any construction site, facility, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit.
 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.
- R. **Civil Penalties for Violations of Permit Conditions.** In addition to civil penalties for violations of State water pollution control laws set forth in Section 9-342 of the Environment Article, Annotated Code of Maryland, the Clean Water Act and EPA regulations at 40 C.F.R. Part 19 provide that any person who violates Section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under Section 402 of the Act or in a permit issued under Section 404 of the Act, is subject to a civil penalty not to exceed \$32,500 per day for each violation. In the event that the sovereign immunity of the United States and its agencies does not apply, such penalties may be assessed for violations.
- S. **Criminal Penalties for Violations of Permit Conditions.** In addition to the criminal penalties for violations of State water pollution control laws set forth in Section 9-343 of the Environment Article, Annotated Code of Maryland, the Clean Water Act provides that:
1. Any person who negligently violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or by both;
 2. Any person who knowingly violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than three years, or by both;
 3. Any person who knowingly violates Sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury, is subject to a fine of not more than \$250,000 or imprisonment for not more than 15 years, or both;
 4. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with or renders inaccurate any monitoring device or method required to be maintained under the Act, is subject to a fine of not more than \$50,000 or by imprisonment for not more than two years, or by both.
- T. **Permit Actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation, reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Part VII. REOPENER CLAUSE

At any time at the discretion of MDE or the U.S. Environmental Protection Agency, or if there is evidence indicating that stormwater discharges authorized by this permit cause, have the reasonable potential to cause or contribute to an excursion above any applicable water quality standard, MDE may require the owner or operator of such discharge to obtain an individual permit or alternative general permit coverage in accordance with Part I. D. of this permit. Alternatively, MDE may revoke this permit or modify this permit to include different limitations and requirements, in accordance with the procedures contained in COMAR 26.08.04.10 and 40 C.F.R. §§ 122.62, 122.63, 122.64 and 124.5.

Part VIII. AUTHORITY TO ISSUE GENERAL NPDES PERMITS

On September 5, 1974, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a permit program for discharges into navigable waters under Section 402 of the federal Clean Water Act, 33 U.S.C. Section 1342. On May 15, 1989, EPA and Maryland entered into a superseding Memorandum of Agreement for such discharges. On September 30, 1990, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a general permit program. Under the approvals described above, this general discharge permit is both a State of Maryland general discharge permit and an NPDES general discharge permit.

Part IX. DEFINITIONS

The following words and terms used in this chapter have the following meanings unless the context clearly indicates otherwise. Terms used in this permit and not otherwise defined herein shall have the meaning attributed to them in 40 C.F.R. Part 122.

1. "Administration" means The Maryland Department of the Environment, Water Management Administration.
2. "Appropriate approval authority" means the state or local government agency that has authority to review and approve Erosion and Sediment Control Plans and Stormwater Management Plans.
3. "Construction Activity" means clearing, grading and/or excavating activities that result in a land disturbance equal to or greater than one acre, including the disturbance of less than one acre of land that is part of a larger common plan of development or sale that will ultimately disturb more than one acre.
4. "CWA" means the federal Clean Water Act, 33 U.S.C. §§ 1251 *et seq.*, or the Federal Water Pollution Control Act or the Amendments to the Clean Water Act, and regulations promulgated thereunder.
5. "Director" means the Regional Administrator, the Secretary of the Maryland Department of the Environment, or an authorized representative.
6. "Larger common plan of development or sale" means an area where multiple separate and distinct construction activities are occurring under one plan. The "plan" in a common plan of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that construction activities may occur on a specific plot.
7. "Permanent stabilization" means that all soil disturbing activities at the site have been completed and the following criteria are met, whichever is most stringent:
 - a. The site meets the stabilization requirements in the approved plans;

- b. The site meets stabilization requirements in the 1994 Standards and Specifications for Soil Erosion and Sediment Control or any updated standards issued by MDE (after their effective date); or
- c. Either of the two following criteria are met:
 - i. A uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
 - ii. Equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.
 - iii. When background native vegetation will cover less than 100 percent of the ground (e.g., arid areas, beaches), the 70 percent coverage criteria is adjusted as follows: if the native vegetation covers 50 percent of the ground, 70 percent of 50 percent ($0.70 \times 0.50 = 0.35$) would require 35 percent total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.
- d. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land, staging areas for highway construction, etc.), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to "water of the United States," and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization criteria (a), (b), or (c) above.

- 8. "Person" is as defined in COMAR 26.17.01 (Erosion and Sediment Control) and COMAR 26.17.02 (Stormwater Management).
- 9. "Plans" means a permittee's Erosion and Sediment Control Plan and Stormwater Management Plan, collectively.
- 10. "Project" means the total area upon which construction activity will occur through stages or phases over time.
- 11. "Site" means any area where Permittee engages in Construction Activity and where coverage under an applicable permit is required.
- 12. "Stormwater" means precipitation runoff, snowmelt runoff, and surface runoff and drainage.
- 13. "Stormwater Associated with Construction Activity" means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to clearing, grading, and/or excavation activities.


 Jay Sakai, Director
 Water Management Administration

STANDARD INSPECTION FORM
GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

General Information			
Project Name			
Permittee			
NOI #		Date of Inspection	
Start Time		End Time	
Inspector's Name(s)			
Green Card Certification #			
Inspector's Contact Information			
Describe present phase of construction		<input type="checkbox"/> Clearing/Grubbing <input type="checkbox"/> Rough Grading <input type="checkbox"/> Infrastructure <input type="checkbox"/> Demolition <input type="checkbox"/> Building Construction <input type="checkbox"/> Final Grading <input type="checkbox"/> Final Stabilization	
Notes:			
Type of Inspection: <input type="checkbox"/> Weekly routine <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event <input type="checkbox"/> Due to a discharge of significant amounts of sediment			
Has there been a storm event since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			

Permit Coverage and Plans				
	Subject	Status	Corrective Action Needed and Notes	Date Corrected
1	Was an NOI submitted for all disturbed acres?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	Is the permittee listed above still in control of permitted activities at the site? (If no, submit a Transfer of Authorization form to MDE)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Do the approved plans reflect current site conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	Are the approved E&S and SWM plans maintained at the site?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	Have the E&S or SWM plan approvals expired?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	Are all inspection reports and enforcement actions on file at the site?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	Is the site permanently stabilized, temporary erosion and sediment controls are removed or set to be removed, and stormwater discharges from construction activity are eliminated?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	If #6 is Yes, has a Notice of Termination been submitted to MDE?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Permit Coverage and Plans				
	Subject	Status	Corrective Action Needed and Notes	Date Corrected
8	Are all discharges composed entirely of stormwater or as authorized by the permit?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Discharge of significant amounts of sediment				
	Subject	Status	Notes	
	Is there evidence of the discharge of significant amounts of sediment to surface waters, or conveyance systems leading to surface waters?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<i>A discharge of significant amounts of sediment may be indicated by (but is not limited to) observations of the following. Note whether any are observed during this inspection:</i>				
1	Earth slides or mud flows	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	Concentrated flows of stormwater such as rills, rivulets or channels that cause erosion when such flows are not filtered, settled or otherwise treated to remove sediment	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Turbid flows of stormwater that are not filtered, settled or otherwise treated to reduce turbidity	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	Deposits of sediment at the construction site in areas that drain to unprotected stormwater inlets or catch basins that discharge directly to surface waters	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	Deposits of sediment from the construction site on public or private streets outside of the permitted construction activity	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	Deposits of sediment from the construction site on any adjacent property outside of the permitted construction activity	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	Discharges from the construction site to municipal conveyances, curbs and gutters, or streams running through or along the site where visual observations show that the discharges differ from ambient conditions in terms of turbidity so as to indicate significant amounts of sediment present in them	<input type="checkbox"/> Yes <input type="checkbox"/> No		

BMPs						
BMP/activity (some recommended items to check included below)	Installed /Implemented?	Maintenance Required?	Location	Corrective Action Needed and Notes (note any BMPs required by plans but not yet installed)	Date Correction Completed	
1 Temporary stabilization - within 7 or 14 days in accordance with 26.17.01.07(B)(3)(e)(iv)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
2 Permanent stabilization - within 7 or 14 days in accordance with 26.17.01.07(B)(3)(e)(iv)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
3 Stockpile protection - check for stabilization, silt fence or other controls	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
4 Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
5 Silt fence - check for proper installation including toeing in, stakes and supports, gaps and tears, and sediment buildup	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
6 Check dams, dikes, and diversion ditches	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
7 Storm drain inlet protection - check for gaps, tears, sediment buildup	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				

BMPs

	BMP/activity (some recommended items to check included below)	Installed /imple- mented?	Maintenance Required?	Location	Corrective Action Needed and Notes (note any BMPs required by plans but not yet installed)	Date Correction Completed
8	Construction entrance - check for trackout, soil buildup on entrance	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
9	Sediment basins/traps - check for sediment buildup, erosion, proper outlet structures	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
10	Outfall protection - check for erosion, sediment	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
11	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
12	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
13	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			
14	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			

BMPs						
BMP/activity (some recommended items to check included below)	Installed /imple- mented?	Maintenance Required?	Location	Corrective Action Needed and Notes (note any BMPs required by plans but not yet installed)	Date Correction Completed	
15 Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
16 (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard Baltimore Maryland 21230
(410) 537-3510 1-800-633-6101 <http://www.mde.state.md.us>

**TRANSFER OF AUTHORIZATION
FOR INDIVIDUAL AND GENERAL PERMITS FOR STORMWATER
ASSOCIATED WITH CONSTRUCTION ACTIVITY**

This Transfer of Authorization form is to be completed by a permittee who holds an Individual or General Permit for Stormwater Associated with Construction Activity, in accordance with the Environmental Protection Agency's National Pollutant Discharge Elimination System stormwater program, if the permittee intends that another person assume control of permitted activities on the site or if the site's ownership changes. In this event, the permittee (the "transferor") must familiarize the person who is assuming control of the permitted activities (the "transferee") with the program and provide the transferee with a copy of the Permit. The transferor and transferee must both sign this form. The completed forms should be submitted by the transferor to the Maryland Department of the Environment, WMA - Compliance Program, 1800 Washington Boulevard, Suite 420, Baltimore, Maryland, 21230. For individual permits, the transfer shall become effective upon issuance of a modified individual permit by the Department. For general permits, the transfer shall become effective after receipt of a completed Transfer of Authorization form, signed by both the transferor and transferee.

State Discharge Permit Number (if assigned):

Name of Transferor/Permittee:

Address of Transferor/Permittee:

Site Name and Location (description, including County and mailing address if available):

Transferor Signature and Date

Name of Person/Entity to Whom Coverage is Being Transferred (i.e., Transferee):

Address of Person/Entity to Whom Coverage is Being Transferred:

Phone Number of Person/Entity to Whom Coverage is Being Transferred:

Name of Contact Person for Site (the person MDE should contact for compliance inspections or other site information):

Phone Number of Contact Person:

Proof of workers' compensation coverage is required under § 1-202 of the Environment Article. State and Federal agencies have coverage and do not need to provide this information. All other transferees (except individuals) must provide either worker's compensation coverage information or a certificate of compliance. MDE will not begin transfer the permit until this information is received. If you have a Certificate of Compliance issued by the Maryland Workers' Compensation Commission, you may provide a copy of the Certificate with this application instead of the Workers' Compensation Insurance information above. If you believe you qualify for a Certificate but do not yet have one, contact the Maryland Workers' Compensation Commission Certificate of Compliance Coordinator via telephone, (410) 864-5297, outside Baltimore Metro area toll free (800) 492-0479 selecting extension 5297 when prompted, or via email: COC@wcc.state.md.us.

Workers' Compensation Coverage Information for Transferee	Workers' Compensation Insurance Information Workers' Compensation Insurance Policy or Binder Number: Name of Provider: OR Certificate of Compliance attached <input type="checkbox"/>
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I acknowledge this transfer of authorization under the terms of the permit. I understand that I must abide by all conditions of the permit, erosion and sediment control plan and stormwater management plan. I certify that the information concerning ownership/control of this site/project is accurate. I am responsible for the construction activities of this site/project, for satisfying the requirements of this discharge permit, and any civil or criminal penalties incurred due to violations of this permit, as set forth in Maryland and/or federal laws and regulations.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name or person signing:
Title:

Transferee Signature and Date

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard
Baltimore Maryland 21230
(410) 537-3000
1-800-633-6101
<http://www.mde.state.md.us>

NOTICE OF TERMINATION

This Notice of Termination form is to be completed upon final stabilization of the construction area covered by an Individual or General Permit for Stormwater Associated with Construction Activity, in accordance with the Environmental Protection Agency's National Pollutant Discharge Elimination System stormwater program. Upon completion of this form, the permittee should sign and submit it to the Maryland Department of the Environment, WMA - Compliance Program, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 420, Baltimore, Maryland, 21230.

Date:

Permit/NOI Identification Number:

Type of Project: Federal State Local Private

Name of Permittee:

Phone:

Address of Permittee:

Site Location (description, including County and mailing address if available):

Name of Principal Contact (for example, the general contractor):

Phone:

Address of Principal Contact:

Permittee Certification

I certify under penalty of law that disturbed soils at the identified site have been acceptably stabilized and temporary erosion and sediment controls have been removed or will be removed at an appropriate time and that all stormwater discharges associated with construction activity from this site that are authorized by this permit have been eliminated. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge stormwater associated with construction activity by the permit and that discharging pollutants in stormwater associated with construction activity to the waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by an NPDES permit. I also understand that the submittal of this Notice of Termination does not release the permittee from liability for any violations of this Permit or the Clean Water Act which may have occurred at this site.

(signature of permittee)