

Appendix C – Master Plan Drainage Projects

The current drainage plan for Fairfax County consists of projects derived from multiple sources including a 1978 report completed by Parsons, Brinckerhoff, Quade & Douglass, the Regional Pond Plan completed in 1988, citizen drainage complaints, maintenance problems and local drainage studies. The County maintains a database of drainage projects identified from these sources. This appendix summarizes this database by subwatershed for the entire Difficult Run Watershed and indicates the recommended disposition of these older planned projects. The recommendations are generally one of the following:

1. Replace the old project with new project number DFXXXX. In most cases the scope has been modified or expanded from the old project scope.
2. Consider project deletion based on SPA data. Further field verification should be conducted prior to formal project deletion.
3. Candidate Site XXX. These sites were evaluated but determined to be less critical than other project locations. The old project should remain in the master drainage program; however, the sites should be reevaluated in 5 to 10 years.
4. Regional Pond alternatives. See Table 5.2 for additional information.
5. Project to be considered for possible VDOT implementation. Additional coordination with the Fairfax County and Virginia Departments of Transportation will be conducted.

The master plan drainage projects tables and status are derived directly from the Fairfax County database (current as of February 2004). Additional information for the project description and the location were taken from the Parsons, Brinckerhoff, Quade & Douglass report completed in 1978 (PBQD, 1978) where applicable. Regional Pond locations are based on the GIS layer provided by Fairfax County with location descriptions indicating a nearby road.

STATUS refers to the current status of the project, as follows:

- I = Inactive (Not an active funded County project)
- A = Active County project, partially funded
- A1 = Active County project, fully funded

MAP_NO is a reference to the project's location and is also used as an identifier.

Table C.1 Master Plan Drainage Projects

SUBSHED	STATUS	PROJECT DESCRIPTION	MAP_NO	DISPOSITION
Angelico Branch	I	REGIONAL POND D51	DF051	Deferred with alternative projects DF9051D - DF9051E.
Angelico Branch	I	RAISE RD RPL BRIDGE HUNTER MIL	DF511	Not a candidate site based on hydraulic modeling. Further field verification required.
Angelico Branch	I	ADD CULV @ EAST HUNTER RD	DF512	Not a candidate site based on hydraulic modeling. Further field verification required.
Captain Hickory Run	I	REGIONAL POND D05	DF005	Deferred with alternative project DF9005B
Captain Hickory Run	I	REGIONAL POND D06	DF006	Recommended for deletion with no alternative projects required.
Captain Hickory Run	I	REGIONAL POND D07	DF007	Deferred with alternative projects DF9007A - DF9007D.
Captain Hickory Run	I	STREAM STABIL @ MILL RUN RD	DF221	Not a candidate site based on SPA data. Further field verification required.
Captain Hickory Run	I	STREAM STABIL @ MANNING ST	DF222	Not a candidate site based on SPA data. Further field verification required.
Captain Hickory Run	I	STREAM STABIL @ WALKER RD	DF223	Outfall stabilization with DF9007A. Consider deleting stream project based on SPA data. Further field verification required.
Captain Hickory Run	I	LOWER INVERT & RPL CULV	DF431	Not a candidate site based on hydraulic modeling. Further field verification required.
Captain Hickory Run	I	RPL CULV @ OLD GEORGETOWN PIKE	DF432	Not a candidate site based on hydraulic modeling. Further field verification required.
Colvin Run	A1	REGIONAL POND D14	DF014	Deferred with alternative project DF9014A
Colvin Run	A1	REGIONAL POND	DF1151	Recommended for deletion with no alternative projects required.
Colvin Run	A1	STREAMBANK PROTECTION	DF253	Stream restoration project DF92135
Colvin Run	I	REGIONAL POND D12	DF012	Deferred with alternative project DF9012.
Colvin Run	I	REGIONAL POND D13	DF013	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9013 - DF9013A.
Colvin Run	I	REGIONAL POND D16	DF016	Recommended for deletion with no alternative projects required.
Colvin Run	I	STREAM STAB @ HUNTER MILL RD	DF251	Stream restoration project DF9213
Colvin Run	I	STREAM STABIL	DF252	Stream restoration project DF9213

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Colvin Run	I	STREAM STABIL @ NORTH SHORE DR	DF261	Not a candidate site based on SPA data. Probable project by Reston Association. Further field verification required.
Colvin Run	I	STREAM RESTOR & STABIL	DF262	Not a candidate site based on SPA data. Potential project by Reston Association. Further field verification required.
Colvin Run	I	RAISE RD/RPL BRIDGE HUNTER MIL	DF451	DF9440 to be considered for possible VDOT implementation.
Difficult Run, Lower	I	REGIONAL POND D09	DF009	Deferred with alternative projects DF9009A - DF9009B.
Difficult Run, Lower	I	REGIONAL POND D10	DF010	Deferred with alternative projects DF9010A - DF9010D.
Difficult Run, Lower	I	REGIONAL POND D76	DF076	Recommend implementation of a reduced-size or modified regional pond and projects DF9076A - DF9076B
Difficult Run, Lower	I	STREAM STABIL @ OLD GEORGETOWN	DF201	Not a candidate site based on SPA data. Further field verification required.
Difficult Run, Lower	I	STREAM STABIL @ MILL RUN DR	DF211	Stream restoration project DF9289
Difficult Run, Lower	I	STREAM STABIL @ COLVIN RUN RD	DF212	Stream restoration project DF9285
Difficult Run, Lower	I	RAISE RD @ OLD GEORGETOWN PIKE	DF401	Not a candidate site based on hydraulic modeling. Further field verification required.
Difficult Run, Middle	C	REGIONAL POND D52	DF052	Completed, but recommended for retrofit project DF9122 along with upstream culvert retrofits DF9522 A-D and DF9555A-B.
Difficult Run, Middle	I	REGIONAL POND D11	DF011	Deferred with alternative projects DF9011A and DF9011C.
Difficult Run, Middle	I	RAISE RD & ADD CULV BROWNS MIL	DF501	DF9429 to be considered for possible VDOT implementation.
Difficult Run, Middle	I	RAISE RD/RIP RAP/RPL CULV	DF502	Not a candidate site based on hydraulic modeling. Further field verification required.
Difficult Run, Upper	I	REGIONAL POND D32	DF032	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9032A-B.
Difficult Run, Upper	I	REGIONAL POND D33	DF033	Recommend deletion of the proposed regional pond and implementation of alternative project DF9033.
Difficult Run, Upper	I	REGIONAL POND D34	DF034	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9034A-B.
Difficult Run, Upper	I	REGIONAL POND D35	DF035	Deferred with alternative projects DF9035A-B.

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Difficult Run, Upper	I	REGIONAL POND D45	DF045	Recommend retrofit project DF9045B and alternative projects DF9045A, D.
Difficult Run, Upper	I	REGIONAL POND D59	DF059	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9059A-C.
Difficult Run, Upper	I	REGIONAL POND D72	DF072	Deferred with alternative project DF9072A.
Difficult Run, Upper	I	CHANNEL IMPROVEMENTS	DF381	Stream restoration project DF9238
Difficult Run, Upper	I	EXTEND RIP RAP CHANNEL	DF392	Stream restoration project DF9245
Difficult Run, Upper	I	580' RAISE RD & RPL CROSSING	DF591	DF9432 to be considered for possible VDOT implementation
Difficult Run, Upper	I	ADD CULV @ VALLEY RD #14	DF592	DF9434 to be considered for possible VDOT implementation
Difficult Run, Upper	I	RPL CULV/LOWER INV WAPLES MILL	DF593	Not a candidate site based on hydraulic modeling. Further field verification required.
Dog Run	I	REGIONAL POND D01	DF001	Deferred with alternative projects DF9051B - DF9051D.
Dog Run	I	LOWER INVERT & RPL CULV	DF441	Not a candidate site based on hydraulic modeling. Further field verification required.
Little Difficult Run	I	REGIONAL POND D23	DF023	Recommend deletion of the proposed regional pond and implementation of alternative project DF9023A.
Little Difficult Run	I	REGIONAL POND D39	DF039	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9039A-B.
Little Difficult Run	I	REGIONAL POND D43	DF043	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9043A-C.
Little Difficult Run	I	REGIONAL POND D58	DF058	Deferred with alternative projects DF9058A-B.
Little Difficult Run	I	REGIONAL POND D61	DF061	Deferred with alternative projects DF9061A-D.
Little Difficult Run	I	REGIONAL POND D69	DF069	Recommend deletion with no alternative projects necessary.
Little Difficult Run	I	REGIONAL POND D71	DF071	Recommend deletion with no alternative projects necessary.
Little Difficult Run	I	CHANNEL/CULV IMPROVEMENTS	DF351	Not a candidate site based on SPA data. Further field verification required.
Little Difficult Run	I	STREAM STABILIZATION	DF361	Location not shown.
Little Difficult Run	I	RAISE RD & RPL BRIDGE	DF541	DF9403 to be considered for possible VDOT implementation

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Little Difficult Run	I	RAISE RD/RIP RAP/RPL CULV	DF551	Not a candidate site based on hydraulic modeling. Further field verification required.
Little Difficult Run	I	RPL CULV @ STUART MILL	DF552	Not a candidate site based on hydraulic modeling. Further field verification required.
Little Difficult Run	I	RAISE RD & RPL CULV	DF553	Not a candidate site based on hydraulic modeling. Further field verification required.
Little Difficult Run	I	ENLARGE CHANNEL/ADD CULV	DF554	DF9416 to be considered for possible VDOT implementation.
Little Difficult Run	I	CULV @ FOX MILL /DRAIN-BYPASS	DF555	DF9413 to be considered for possible VDOT implementation.
Old Courthouse Spring Branch	C	REGIONAL POND D-107	DF1107	Completed, but recommended for retrofit project DF9157.
Old Courthouse Spring Branch	I	STREAM STABIL @ WOLFTRAP PARK	DF291	Not a candidate site based on SPA data. Probable project by Reston Association. Further field verification required.
Piney Branch	A1	FLOODPROOF HOUSE	DF701	Not included in watershed plan.
Piney Branch	A1	FLOOD PROTECTION	DF701	Not included in watershed plan.
Piney Branch	I	REGIONAL POND D27	DF027	Recommend deletion of the proposed regional pond and implementation of alternative project DF9027A.
Piney Branch	I	REGIONAL POND D29	DF029	Recommend implementation of a reduced-size or modified regional pond DF9029B, and alternative project DF9065A.
Piney Branch	I	REGIONAL POND D73	DF073	Recommend implementation of a reduced-size or modified regional pond DF9073C, and alternative projects DF9073A-B.
Piney Branch	I	REGIONAL POND D74	DF074	Deferred with alternative project DF9074A.
Piney Run	A	REGIONAL POND D02	DF002	Deferred with alternative project DF9002A
Piney Run	I	REGIONAL POND D03	DF003	Recommend implementation of a reduced-size or modified regional pond(DF9003AA).
Piney Run	I	REGIONAL POND D64	DF064	Recommend implementation of a reduced-size or modified regional pond and projects DF9064A -DF9064C
Piney Run	I	RAISE WALKER RD & RPL CROSSING	DF433	DF9477 to be considered for possible VDOT implementation.
Piney Run	I	RAISE RD & RPL BRIDGE	DF434	DF9467B to be considered for possible VDOT implementation.

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Rocky Branch	A	REGIONAL POND D30	DF030	Recommend implementation of alternative projects DF9030A-B.
Rocky Branch	I	REGIONAL POND D31	DF031	Deferred with alternative projects DF9031A-C.
Rocky Branch	I	REGIONAL POND D36	DF036	Recommend implementation of a reduced-size or modified regional pond DF9036A3.
Rocky Branch	I	STREAM STAB @ MEREDITH DR	DF371	Not a candidate site based on SPA data. Further field verification required.
Rocky Branch	I	STREAM STAB @ MILLER RD	DF372	Candidate Site S128. Channel recovering, no project identified. Re-evaluate in 5 years.
Rocky Branch	I	RAISE RD/RPL CULV	DF571	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Branch	I	ADD CULV @ MARBURY RD	DF574	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Branch	I	RAISE RD/RIP RAP/RPL CULV	DF575	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Branch	I	ADD CULV @ MILLER RD	DF577	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Branch	I	RPL CULV	DF578	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Run	A1	200' STREAM STAB @ LEWINSVILLE	DF275	Not a candidate site based on SPA data. Further field verification required.
Rocky Run	C	REGIONAL POND D67	DF067	Completed, but recommended for retrofit DF9121.
Rocky Run	I	REGIONAL POND D18	DF018	Recommended for deletion with no alternative projects required.
Rocky Run	I	REGIONAL POND D19	DF019	Deferred with alternative project DF9019A
Rocky Run	I	REGIONAL POND D20	DF020	Recommended for deletion with no alternative projects required.
Rocky Run	I	REGIONAL POND D21	DF021	Recommended for deletion with no alternative projects required.
Rocky Run	I	REGIONAL POND D66	DF066	Deferred with alternative project DF9066A
Rocky Run	I	STREAM STABIL @ BROOK RD	DF271	Not a candidate site based on SPA data. Further field verification required.
Rocky Run	I	STREAM STABIL @ OVERLOOK RD	DF273	Not a candidate site based on SPA data. Further field verification required.

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Rocky Run	I	STREAM STABIL @ DIXIE PLACE	DF274	Candidate site S92. No project developed. Re-evaluate in 5 years.
Rocky Run	I	RAISE RD & RPL CULV BELLVIEW	DF471	Candidate site F80 based on hydraulic modeling.
Rocky Run	I	ADD CULV @ BROOK RD #61	DF472	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Run	I	RIP RAP/RAISE RD/RPL CULV	DF473	Not a candidate site based on hydraulic modeling. Further field verification required.
Rocky Run	I	LOWER INVERT & RPL CULV	DF474	Not a candidate site based on hydraulic modeling. Further field verification required.
Snakeden Branch	I	REGIONAL POND D24	DF024	Deferred with alternative projects DF9024a and DF9024B2.
Snakeden Branch	I	STREAM STAB @ OLD TRAIL DR	DF332	Stream restoration DF9225 and covert retrofit DF9523.
Snakeden Branch	I	STREAM STAB @ CHARTERHOUSE CIR	DF333	Not a candidate site based on SPA data. Potential project by Reston Association. Further field verification required.
Snakeden Branch	I	RIP RAP & RPL BRIDGE	DF521	DF9411 to be considered for possible VDOT implementation.
South Fork Run	A	REGIONAL POND D40	DF040	Deferred with alternative projects DF9040A-E.
South Fork Run	I	REGIONAL POND D38	DF038	Deferred with alternative projects.
South Fork Run	I	REGIONAL POND D41	DF041	Recommend deletion of the proposed regional pond and implementation of alternative projects DF9041A.
South Fork Run	I	REGIONAL POND D79	DF079	Deferred with alternative projects DF9079A.
The Glade	I	STREAM RESTOR & STABIL	DF331	Not a candidate site based on SPA data. Further field verification required.
Wolftrap Creek	A	UPGRADE POND	DF106	Recommended for retrofit DF9133B.
Wolftrap Creek	A1	FLOOD PROTECTION	DF691	Not a candidate site based on hydraulic modeling. Further field verification required.
Wolftrap Creek	I	REGIONAL POND D17	DF017	Recommend implementation of a reduced-size or modified regional pond DF9017A, and alternative project DF9017B.
Wolftrap Creek	I	REGIONAL POND D28	DF028	Deferred with alternative projects DF9028A-C.
Wolftrap Creek	I	REGIONAL POND D54	DF054	Recommend implementation of a reduced-size or modified regional pond DF9054B, and alternative project DF9054A.

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Wolftrap Creek	I	REGIONAL POND D65	DF065	Recommend implementation of a reduced-size or modified regional pond DF9065A, and alternative project DF9065B.
Wolftrap Creek	I	STREAM STABIL	DF281	Not a candidate site based on SPA data. Further field verification required.
Wolftrap Creek	I	RAISE RD & RPL BRIDGE	DF481	DF9428 to be considered for possible VDOT implementation
Wolftrap Creek	I	RAISE RD & RPL CULV OLD CRTHSE	DF491	Culvert retrofit DF9558.
Wolftrap Creek	I	RAISE RD & RPL CULV	DF492	Not a candidate site based on hydraulic modeling. Further field verification required.