

**GRADING LEGEND**

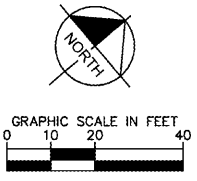
TC:	TOP OF CURB ELEVATION
BC:	BOTTOM OF CURB ELEVATION
TW:	TOP OF WALL ELEVATION
BW:	BOTTOM OF WALL ELEVATION
TI:	TOP OF ISLAND ELEVATION
BI:	BOTTOM OF ISLAND ELEVATION
FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING

XXX DRAINAGE STRUCTURE CALLOUT

VDOT CG-6 STANDARD CURB AND GUTTER

SPILLING CURB AND GUTTER

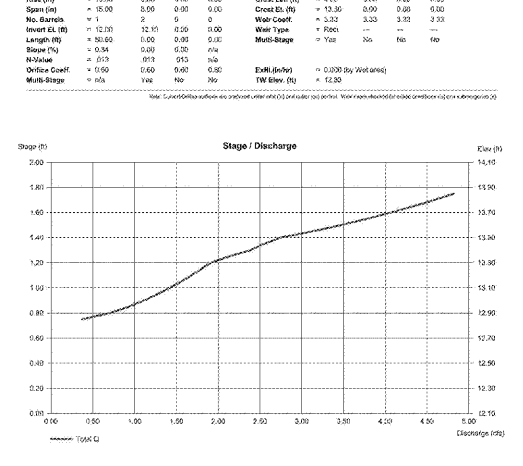
ADA ACCESSIBLE AREAS (FOR INFORMATION ONLY)



**Pond Report**

Hydrologic Hydrographs Extension for AutoCAD Civil 3D 2015 by Autodesk, Inc. v12  
 Pond No. 1 - DETENTION  
 Pond Data  
 Flood Storage is based on unponded values.

Stage (ft)	Elevation (ft)	Canal area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
5.00	12.16	n/a	1,550	1,550
5.50	12.65	n/a	955	2,505
6.00	13.14	n/a	350	2,855
6.50	13.63	n/a	292	3,147



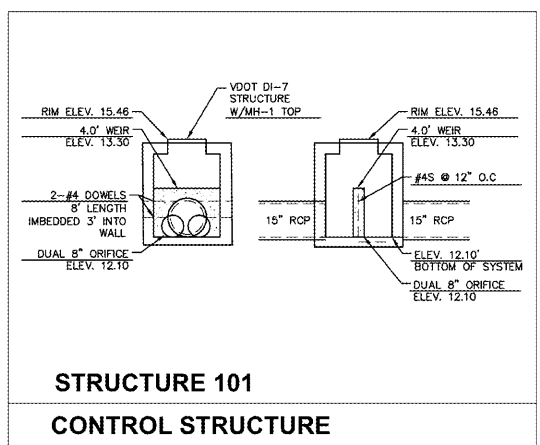
**STRUCTURE TABLE**

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. 101	VDOT MOD. DI-7 CONTROL STRUCTURE	15.42	3.42
STR. 102	CONNECT TO DET.		
STR. 103	CONNECT TO DET.		
STR. 104	VDOT STD. DI-3C L = 12'	14.51	2.27
STR. EX-1	EX. CURB INLET	15.49	3.66

**STORM PIPES**

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. 101 TO STR. EX-1	51 LF	15 IN CL III RCP	0.34%	12.00	11.83
STR. 102 TO STR. 101	27 LF	15 IN CL III RCP	0.00%	12.10	12.10
STR. 104 TO STR. 103	9 LF	15 IN CL III RCP	1.50%	12.24	12.10

- GRADING NOTES**
1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
  2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
  3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
  4. ADA ACCESSIBLE PARKING SPACES ARE SHOWN AS SHADED AND DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO VERIFY EXISTING UTILITY DEPT. AND LOCATION PRIOR TO STORM SEWER INSTALLATION.
  5. PROPOSED SIDEWALK/ADA ACCESSIBLE ROUTES ARE SHOWN AS SHADED AND DESIGNED WITH A MAXIMUM 1.75% CROSS SLOPE AND A 4.75% LONGITUDINAL SLOPE. CONTRACTOR TO ENSURE CROSS SLOPE DOES NOT EXCEED 2.0% AND LONGITUDINAL SLOPE DOES NOT EXCEED 5.0%.
  6. THE VERTICAL DATUM OF THIS SURVEY IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE CITY OF NORFOLK CONTROL REFERENCE POINT USED TO ESTABLISH THE ELEVATION VALUES SHOWN HEREON IS VA1220070.



NOTE: STR. 102 TO STR. 101 AND STR. 104 TO STR. 103 ARE TO HAVE 15" MANIFOLDS WITH (3) 8" CONNECTIONS TO THE UNDERGROUND DETENTION SYSTEM.

**Kimley»Horn**

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 1700 WILLOW LAWN DR., SUITE 200, RICHMOND, VA 23230  
 PHONE: 804-673-3882  
 WWW.KIMLEY-HORN.COM

**COMMONWEALTH OF VIRGINIA**  
 J. RANDALL ROYAL  
 Lic. No. 14950  
 8/24/18  
 PROFESSIONAL ENGINEER

**GRADING PLAN**

WAWA AT NEWTOWN AND STONEY POINT  
 PREPARED FOR WAWA

CITY OF NORFOLK VIRGINIA

SHEET NUMBER CG-101

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

Prepared by: [Name], Licensed Professional Engineer, State of Virginia, License No. [Number].  
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