

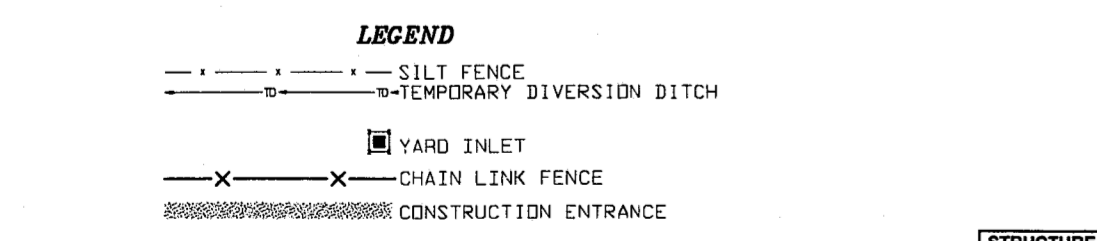
Random Intensity, English (ft)

R 9 5
10 195 22
2 132 18
Rough Coef. nr 0.013

STORM DRAINAGE SCHEDULE

FROM	TO	UPSTREAM STRUCTURE	INLET AREA (AC)	A SUB AREA (AC)	INLET TIME (MIN)	I INTENSITY (IN/H)	EC COMPOSITE COEFF.	Q1 DISCHARGE (CFS)	Q2 DISCHARGE (CFS)	SLOPE	PIPE DIA. (IN)	PIPE MAT.	CAPACITY (GALL/HR)	V FULL (FPS)	LENGTH (FT)	UPPER INV. (FT)	LOWER INV. (FT)
1	2	Y1 STD. 8.01	0.16	0.16	6.00	7.22	0.50	3.13	3.01	0.0075	18" RCP	5.6	3.5	113.0	402.80	404.80	
2	3	Y1 STD. 8.01	0.21	0.37	6.00	7.11	0.50	3.87	3.62	0.0262	18" RCP	10.4	6.5	43.2	401.45	400.33	
6	7	Y1 STD. 8.01	0.22	0.22	6.00	7.22	0.50	0.78	0.63	0.0090	18" RCP	6.3	5.7	114.6	401.50	400.40	
7	8	Y1 STD. 8.01	0.10	0.22	6.00	7.15	0.50	1.14	0.90	0.0090	18" RCP	6.0	4.9	148.0	400.20	399.00	
11	12	Y1 STD. 8.01	2.48	2.48	6.00	7.22	0.65	15.22	12.10	0.0062	30" RCP	52.4	7.4	81.0	417.00	418.00	
9	10	FES	9.27	9.27	6.00	7.22	0.62	41.51	32.99	0.0235	30" RCP	62.9	12.8	97.7	393.20	391.40	
4	5	FES	2.74	2.74	6.00	7.22	0.78	19.31	16.14	0.0227	24" RCP	34.1	10.8	88.8	406.12	398.10	
16	18	NCDOT 840.34	0.14	0.14	6.00	7.22	0.90	0.91	0.72	0.0038	18" RCP	4.0	3.2	89.0	404.00	403.70	
18	19	NCDOT 840.34	0.88	0.88	6.00	7.11	0.90	1.41	1.12	0.0044	18" RCP	4.7	3.8	86.0	403.60	403.30	
14	1	NCDOT 840.34	0.08	0.30	6.00	7.05	0.90	2.55	2.16	0.0078	18" RCP	3.6	4.8	69.0	403.60	403.30	
13	14	NCDOT 840.34	0.10	0.10	6.00	7.22	0.90	0.65	0.52	0.0166	18" RCP	8.1	6.8	54.0	404.80	403.90	
17	18	NCDOT 840.34	0.17	0.17	6.00	7.22	1.00	1.23	0.98	0.0078	18" RCP	5.8	4.8	139.0	403.80	403.80	
18	19	NCDOT 840.34	0.19	0.30	6.00	7.10	1.00	2.55	2.09	0.0089	18" RCP	6.1	6.0	119.0	403.60	403.60	
19	20	NCDOT 840.34	0.14	0.30	6.00	7.00	1.00	3.90	2.71	0.0291	18" RCP	11.1	9.0	118.0	401.40	398.00	

NOTES:
 1) TOP ELEVATIONS FOR CATCH BASINS ARE TOP OF CURB ELEVATIONS.
 2) ALL CATCH BASINS TO BE PROTECTED WITH SILT FENCE INLET PROTECTION.
 3) DISCHARGE DETERMINED BY RATIONAL METHOD Q = C_{PA}^{0.77}
 STRUCTURE SCHEDULE:
 Y1 STD. 8.01 TOWN OF CARY STANDARD YARD INLET W/ CONCRETE SLAB
 FES CONCRETE FLARED END STRUCTURE



OUTLET PROTECTION

STRUCTURE	SIZE width x length x thickness	APRON MATERIAL rip rap*
POND NO. 1	6' x 12' x 24"	CLASS "1"
POND NO. 2	6' x 12' x 24"	CLASS "1"
10 FES	10' x 20' x 24"	CLASS "1"
5 FES	5' x 9' x 18"	CLASS "B"
3 FES	5' x 9' x 18"	CLASS "B"
8 FES	5' x 9' x 18"	CLASS "B"
20 FES	5' x 9' x 18"	CLASS "B"

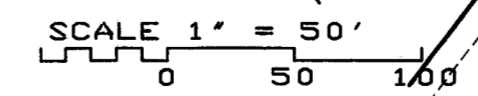
* All stone CLASS "B" or larger shall be underlain with MIRAFI 600X

TEMPORARY SEDIMENT BASIN SCHEDULE

STRUCTURE TYPE	STRUCTURE (#)	DRAINAGE AREA (ACRE)	DENUDED AREA (ACRE)	VOLUME (CF)	SIZE D x W x L	WEIR LENGTH (FT)
TOC Std 4.03	A	2.7	2.4	4320	6' x 18' x 48'	8'
TOC Std 4.04	A	9.3	2.4	4320	6' x 30' x 30'	15'

* Includes 1' of free board.

- NOT FOR CONSTRUCTION NOTES**
- 1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
 - 2) ALL WORK SHALL BE DONE IN CONFORMANCE WITH TOWN OF CARY STANDARDS AND SPECIFICATIONS.
 - 3) RECEIVING WATERCOURSE : COLES BRANCH.
 - 4) SOILS ON-SITE : CREEDMORE-WHITESTORE.
 - 5) DENUDED AREA = 8.0 ACRES.
 - 6) NO FEMA DELINEATED FLOODPLAIN ON-SITE. PER FORM MAP # 37183C0294E, EFFECTIVE MARCH 3, 1992.
 - 7) SEE SHEET 5 FOR CONSTRUCTION SEQUENCE AND DAM DETAILS.
 - 8) TEMPORARY DIVERSION SHALL BE MAINTAINED AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTION.
 - 9) NCDOT std. 640.34 CATCH BASIN W/ 24" x 24" VULCAN CATCH BASIN FRAME & GRATE MODEL V-5600 OR EQUAL.



Alan Young
12.29.97

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