BRANCHESTER LAKES SECTION 3

HEARTHSIDE DRIVE

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

NAD83

BRANCHESTER LAKES SECTION 3 ZONED: R-1

BRANCHESTER LAKES SECTION 2 ZONED: R-2

REGENCY DRIVE

LAUREL DRIVE

JESSUP CROSSING

HUDSON WAY

MATCHLINE SEE SHEET C2.0

INDICATES CHANNEL WHERE WIRE MESH REINFORCEMENT IS NOT REQUIRED.

PG-5

SLOPES VARIABLE AS SHOWN ON TYPICAL SECTION

8 X 6 - W2.1 X W2.1 WELDED WIRE FABRIC WHERE REQUIRED

SLOPES AS SHOWN ON PLANS

#4" OR #5" AS SHOWN ON TABLE

WEEP HOLES: 3" DIA. @ 8' C-C

CLASS A3 CONCRETE

HALF-SECTION NON-REINFORCED. HALF-SECTION W.W.F. REINFORCEMENT

SECTION A-A

CONCRETE TO BE CLASS A3

EXPANSION JOINT SPACING 90' MAXIMUM

DOWELS

DIRECTION OF FLOW

4-4 X 18" DOWELS SMOOTH BARS @ 12" C-C LOCATED AT ALL JOINTS

CURTAIN WALL TO BE LOCATED AT THE BEGINNING AND END OF ALL CHANNELS AND ON THE LOWER END OF EACH EXPANSION JOINT.

ELEVATION

SQUARE YARDS PER LIN. FT. OF PAVED CHANNEL

CONC. THICKNESS	D	W = 1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
1:1 SIDE SLOPES											
4"	1'	0.423	0.536	0.648	0.759	0.870	0.981	1.092	1.203	1.314	1.425
	2'	0.740	0.851	0.962	1.073	1.184	1.295	1.406	1.517	1.629	1.740
	3'	1.054	1.165	1.276	1.387	1.498	1.609	1.721	1.832	1.943	2.054
	4'	1.368	1.479	1.590	1.702	1.813	1.924	2.035	2.146	2.257	2.368
	5'	1.682	1.794	1.905	2.016	2.127	2.238	2.349	2.460	2.571	2.682
6"	1'	1.597	2.108	2.219	2.330	2.441	2.552	2.663	2.775	2.886	2.997
	2'	2.311	2.423	2.534	2.644	2.755	2.866	2.977	3.089	3.200	3.311
	3'	2.625	2.736	2.849	2.958	3.070	3.181	3.292	3.403	3.514	3.625
	4'	2.940	3.051	3.162	3.273	3.384	3.495	3.606	3.717	3.828	3.939
	5'	3.254	3.365	3.476	3.587	3.698	3.809	3.920	4.031	4.143	4.254
1.5:1 SIDE SLOPES											
4"	1'	0.597	0.823	0.734	0.845	0.956	1.067	1.178	1.290	1.401	1.512
	2'	0.952	1.023	1.135	1.246	1.357	1.468	1.579	1.690	1.801	1.912
	3'	1.531	1.414	1.535	1.646	1.757	1.869	1.980	2.091	2.202	2.313
	4'	1.714	1.825	1.936	2.047	2.158	2.269	2.380	2.491	2.602	2.714
	5'	2.114	2.225	2.336	2.448	2.559	2.670	2.781	2.892	3.003	3.114
6"	1'	2.325	2.626	2.737	2.848	2.959	3.070	3.181	3.292	3.404	3.515
	2'	2.915	3.027	3.138	3.249	3.360	3.471	3.582	3.693	3.804	3.915
	3'	3.36	3.427	3.538	3.649	3.760	3.872	3.983	4.094	4.205	4.316
	4'	3.717	3.828	3.939	4.050	4.161	4.272	4.383	4.494	4.606	4.717
	5'	4.117	4.228	4.340	4.451	4.562	4.673	4.784	4.895	5.006	5.117
2:1 SIDE SLOPES											
4"	1'	0.601	0.719	0.830	0.941	1.052	1.164	1.275	1.386	1.497	1.608
	2'	0.963	1.078	1.327	1.438	1.549	1.660	1.772	1.883	1.994	2.105
	3'	1.602	1.713	1.824	1.935	2.046	2.157	2.268	2.380	2.491	2.602
	4'	2.069	2.180	2.291	2.435	2.543	2.654	2.765	2.876	2.988	3.099
	5'	2.586	2.707	2.818	2.929	3.040	3.151	3.262	3.373	3.485	3.596
6"	1'	4.083	3.204	3.315	3.426	3.537	3.648	3.759	3.870	3.981	4.093
	2'	3.589	3.701	3.812	3.923	4.034	4.145	4.256	4.367	4.478	4.589
	3'	4.086	4.197	4.309	4.420	4.531	4.642	4.753	4.864	4.975	5.086
	4'	4.583	4.694	4.805	4.917	5.028	5.139	5.250	5.361	5.472	5.583
	5'	5.080	5.191	5.302	5.413	5.525	5.636	5.747	5.858	5.969	6.080

NOTES:
DEPTH (D) AND WIDTH (W) TO BE AS SHOWN ON PLANS.
WEEP HOLES ARE TO BE PROVIDED ON ALL CHANNELS WHERE W IS EQUAL TO OR GREATER THAN 4' AND D IS EQUAL TO OR GREATER THAN 2'.
WEEP HOLE WITH 12" X 12" PLASTIC HARDWARE CLOTH X/X MESH OR GALVANIZED STEEL WIRE DIAMETER 0.03 INCH, NUMBER 4 MESH, HARDWARE CLOTH ANCHORED FIRMLY TO THE BOTTOM OF THE CHANNEL.

SPECIFICATION REFERENCE: 502

STANDARD PAVED DITCHES
VIRGINIA DEPARTMENT OF TRANSPORTATION

109.03

COMMONWEALTH OF VIRGINIA
DERRICK A. JOHNSON
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10-16-07
PROFESSIONAL ENGINEER

YOUR VISION ACHIEVED THROUGH OURS.

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Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
8-30-05	COUNTY & VDOT COMMENTS
11-07-05	COUNTY & VDOT COMMENTS
1-12-06	COUNTY & VDOT COMMENTS
02-16-06	COUNTY & VDOT COMMENTS
10-15-09	UTILITY COMMENTS

DATE	6-20-05
DRAWN BY	K.HALPAUS
DESIGNED BY	K.HALPAUS
CHECKED BY	D. JOHNSON
SCALE	1"=50'
JOB NO.	22247
SHEET NO.	C2.1

TIMMONS GROUP

TOOMBS SUBDIVISION

BLAND DISTRICT * PRINCE GEORGE COUNTY, VIRGINIA

DEVELOPMENT PLAN

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